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2010 Health Care Survey of DoD Beneficiaries:

Adult Technical Manual

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Final

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TRICARE Management Activity
5111 Leesburg Pike, Suite 810
Falls Church, VA 22041
(703) 681-3636

Task Order Officer:

Richard R. Bannick, Ph. D., FACHE

Submitted by:

Mathematica Policy Research, Inc.
600 Maryland Ave., SW, Suite 550
Washington, DC 20024-2512
(202) 484-9220

Project Director:

Eric Schone, Ph.D.

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Chapter

1

Introduction

The 2010 Adult Health Care Survey of Department of Defense Beneficiaries (HCSDB) is the primary tool with which the TRICARE Management Activity (TMA) of the Assistant Secretary of Defense (Health Affairs) monitors the opinions and experiences of military health system (MHS) beneficiaries. The HCSDB was conducted annually from 1995 to 2000, at which time the survey was fielded quarterly. Specifically, the HCSDB is designed to answer the following questions:

- How *satisfied* are DoD beneficiaries with their health care and their health plan?
- How does overall satisfaction with military treatment facilities (MTFs) compare with satisfaction with civilian treatment facilities (CTFs)?
- Does *access* to military and civilian facilities meet TRICARE standards?
- Is beneficiaries' use of preventive health care services in line with national goals, such as those outlined in *Healthy People 2010*?
- Has beneficiaries' use of MHS services changed over time?
- What aspects of MHS care contribute most to beneficiary satisfaction with their health care experiences? With which aspects are beneficiaries least satisfied?
- What are the demographic characteristics of MHS beneficiaries?

The HCSDB is a quarterly mail survey of a representative sample of MHS beneficiaries. It is sponsored by the TRICARE Management Activity in the Office of the Assistant Secretary of Defense (Health Affairs) [OASD(HA)] under authority of the National Defense Authorization Act for Fiscal Year 1993 (P.L. 102-484). Altarum Institute prepares the sampling frame, which consists of selected variables for each MHS beneficiary in the Defense Enrollment Eligibility Reporting System (DEERS) database on a specified reference date. DEERS includes everyone who is eligible for a MHS benefit (i.e., everyone in the Uniformed Services—Army, Air Force, Navy, Marine Corps, Coast Guard, the Commissioned Corps of the Public Health Service, National Oceanic and Atmospheric Administration, Guard/Reserve personnel who are activated for more than 30 days – and other special categories of people who qualify for benefits). DEERS includes those on active duty, those retired from military careers, immediate family members of people in the previous two categories, and surviving family members of people in these categories.

Each quarter, Mathematica Policy Research (Mathematica, Washington, D.C.) prepares a sample of 51,000 adult beneficiaries. Synovate fields the survey each quarter. Mathematica analyzes the survey data, reports on the results and prepares a quarterly public use file and a Codebook and Users' Guide to describe the quarterly dataset. Each year, Mathematica prepares an annual public use dataset the "2010 Health Survey of DoD Beneficiaries: Adult Technical Manual", and the "Health Care Survey of DoD Beneficiaries: Annual Report".

This manual is designed to be used as a reference by analysts in OASD (HA) as they interpret the survey findings and prepare briefings. This manual provides detailed documentation on the following: naming conventions for variables, editing procedures, selection of records, computation of response rates, recoding of variables, computation of weights, variance estimation, and construction of tables and charts for the reports. This manual also enables an analyst to follow, and

replicate if desired, the processing of the raw survey data through each step in the production of the final database.

A. OVERVIEW OF THE HCSDB

1. Sample Design

The 2010 adult sample design is a stratified random sample with 51,000 adult beneficiaries selected each quarter. Stratification is based on three variables: analytical group, geographic area, and enrollment/beneficiary type. The *analytical group* stratification is determined in cooperation with TRICARE Management Activity (TMA) staff, and is important to data users and policymakers. The criteria for the analytical group stratification is the following: (1) beneficiaries younger than 65, enrolled with a military primary care manager (PCM), or active duty beneficiaries; (2) beneficiaries younger than 65, who use Managed Care Support Contractors; (3) beneficiaries younger than 65, who use TRICARE Standard/Extra; (4) beneficiaries enrolled in TRICARE Reserve Select; (5) beneficiaries age 65 or older enrolled in TRICARE Plus; and (6) beneficiaries age 65 or older not enrolled in TRICARE Plus.

The *geographic area* stratification includes military treatment facilities (MTFs) in which TMA is interested, TNEC regions for those enrolled in other MTFs, and TNEC regions for all other beneficiaries.

The *enrollment/beneficiary* type includes (1) active duty; (2) active duty family members enrolled in Prime with a civilian PCM; (3) active duty family members enrolled in Prime with a military PCM; (4) active duty family members not enrolled in Prime; (5) retirees and their family members younger than 65 enrolled in Prime with a civilian PCM; (6) retirees and their family members younger than 65 enrolled in Prime with a military PCM; (7) retirees and their family members younger than 65 not enrolled in Prime; (8) retirees and their family members age 65 and older; and (9) beneficiaries enrolled in TRICARE Reserve Select.

The sample selection process involved five steps: (1) construction of the sampling frame and definition of sampling strata; (2) allocation of the sample to strata to satisfy the study's precision goals; (3) selection of the survey sample using a permanent random number sample selection algorithm; (4) creation of the sampling weights, which reflect the probability of selection; and (5) verification of results to ensure that sampling was implemented as specified. Please see Mathematica Policy Research, Inc (2009) for details on sample design.

2. 2010 Adult HCSDB

The HCSDB questionnaire was converted from an annual to a quarterly survey in 2000, and is fielded each quarter to a representative sample of MHS beneficiaries. Beginning with 2006, reporting and documentation of the HCSDB is performed on a fiscal year basis. In previous years, reporting and documentation were based on calendar years. Thus this document, the "2010 Health Survey of DoD Beneficiaries: Adult Technical Manual", describes Quarters I-IV of fiscal year 2010. Throughout this document, Quarter I, 2010 refers to Quarter I of fiscal year 2010. The adult questionnaires for Quarters I-IV are reproduced in Appendix A. The 2010 survey consists of an unchanging core questionnaire with different quarterly supplements.

The core adult questionnaire includes the following topics:

- Use of health care
- Use of preventive health care
- Type of health plan covering the beneficiary

- Satisfaction with health plan
- Satisfaction with health care
- Access to health care
- Demographic characteristics

Beginning in 2002, the survey naming convention was changed. Prior to 2000, the year in the survey's name reflected the year that respondents were asked to think about when answering the questions. For example, although the 2000 HCSDB was fielded in 2001, it asked beneficiaries to think about the prior 12 months (mostly 2000) as the reference period for their answer. Under the new naming convention, the survey title refers to the year the questionnaires are fielded, so last year's survey was the 2009 HCSDB and this year's survey is the 2010 HCSDB. Because of the name change, there is no "2001" survey, even though the questionnaire was administered continuously in each quarter of 2001.

3. Survey Response – Quarters I-IV

Each quarter in 2010, Synovate sent surveys to a random sample of 51,000 adult MHS beneficiaries. By the end of the fielding period in Quarter I, Synovate received completed surveys from 22.3 percent of the sample. In Quarter II, 24.8 percent of the sample members returned completed surveys while in Quarter III, 26.4 percent of the sample members returned completed surveys. In Quarter IV, Synovate received complete surveys from 24.3 percent of the beneficiaries sampled. Information pertaining to how Mathematica developed these response rates is presented in Chapter 3.

It should be noted that the above cited response rates do not reflect late arriving responses from the surveys fielded in the first three quarters. The response rates are based on the number of completed surveys returned to the survey vendor at the end of the fielding period. The annual combined dataset, however, includes the surveys returned after the end of the fielding period. Therefore, the revised annual response rates were 23.5 percent for Quarter I, 26.4 percent for Quarter II, 27.7 percent for Quarter III, and 25.5 percent for the combined annual dataset.

4. Database Development

Mathematica edits the data, selects records for inclusion in the final database, and constructs variables to be used in reports. To ensure that the survey data is representative of the DEERS population, Mathematica develops weights to take account of the initial sampling, the sampled individuals who chose not to respond to the survey, and post-stratification if the beneficiary's key information is updated.

5. Reports

Mathematica analyzes the data and produces several reports explaining the findings on topics such as satisfaction, access to care, health care use, and use of preventive services. These reports will be available on the TRICARE website at <http://www.TRICARE.USD.mil>:

- 2010 TRICARE Beneficiary Reports
- 2010 TRICARE Consumer Watch
- Health Care Survey of DoD Beneficiaries: Annual Report

B. ORGANIZATION OF THIS MANUAL

Chapter 2 explains how the database was developed. It covers naming conventions, editing procedures, record selection criteria, descriptions of all variable types, definitions of each constructed variable, and weighting procedures. Chapter 3 describes how the database was analyzed. This includes rules for developing response rates, the development of table and chart specifications for the Health Care Survey of DoD Beneficiaries: (The HCSDB Annual Report, TRICARE Beneficiary Reports and TRICARE Consumer Watch), an explanation of the dependent variables and independent variables, and the methodology for estimating the variance of estimates. The manual concludes with a series of technical appendices:

- Appendix A: Annotated questionnaire – Quarters I-IV survey questionnaire annotated with database variable names
- Appendix B: Plan for Data Quality – Coding Scheme – Quarters I-IV
- Appendix C: A table mapping MTFs to the catchment area and DMIS ID
- Appendix D: Response rate tables for selected domains – Quarters I-IV and Combined Annual
- Appendix E: Technical Description of the 2010 TRICARE Beneficiary Reports
- Appendix F: SAS Code for File Development – Quarters I-IV
- Appendix G: SAS Code for Statistical and Web Specifications for the 2010 TRICARE Beneficiary Reports - Quarters I-IV
- Appendix H: SAS Code for 2010 TRICARE Consumer Watch - Quarters I-IV and Combined Annual
- Appendix I: SAS Code for Statistical and Web Specifications for the 2010 TRICARE Purchased Care Beneficiary Reports - Quarters I-IV
- Appendix J: SAS Code for 2010 TRICARE Purchased Care Consumer Watch - Quarters I-IV and Combined Annual
- Appendix K: Changes to Composites

Chapter

2

Database

This chapter explains the process of developing the raw survey data into a final database free of inconsistencies and ready for analysis. We discuss the design of the database; cleaning, editing, and implementing the Coding Scheme; record selection; and constructing variables.

A. DATABASE DESIGN

The 2010 Adult HCSDB consists of variables from various sources. When Synovate delivers the file to Mathematica after fielding the sample, the following types of variables are present:

- DEERS information on beneficiary group, social security number (SSN), sex, age, etc.
- Sampling variables used to place beneficiaries in appropriate strata
- Core and supplemental questionnaire responses
- Synovate information from fielding the sample, such as scan date and flags developed during the fielding to assist us in determining eligibility

Mathematica removes all identifying information such as SSN to protect the confidentiality of the respondents. Mathematica then adds the following types of variables to the database:

- Updated DEERS variables from the time of data collection to be used for post-stratification
- Coding Scheme flags
- Constructed variables for analysis
- Weights

In addition, Mathematica updates and cleans the questionnaire responses using the Coding Scheme tables found in Appendix B. Each quarter, the final public-use database will contain only the recoded responses; this will help users to avoid using an uncleaned response for analysis. We structured the final database so that all variables from a particular source are grouped by position. Table 2.1 lists all variables in the Quarters I-IV, 2010 database by source. For specific information on variable location within the database, refer to the “2010 Adult Health Care Survey of DoD Beneficiaries: Adult Codebook and User’s Guide.”

1. Data Sources

a. DEERS

Altarum provided the sampling frame to Mathematica prior to the selection of the sample. DEERS information such as sex, date of birth, and service are retained in the database; this data is current as of the time of sample selection.

b. Sampling Variables

Mathematica developed variables during the sample selection procedure that were instrumental in placing beneficiaries in appropriate strata. Many of the variables are retained on the database.

c. Questionnaire Responses

These variables represent the cleaned values for all responses to the questionnaire. The original values scanned in by Synovate are cleaned and recoded as necessary to ensure that responses are consistent throughout the questionnaire. The Coding Scheme tables found in Appendix B are the basis for insuring data quality.

d. Survey Fielding Variables

In the process of fielding the survey, Synovate created a number of variables that we retain in the database. Certain of these variables, information that came in by phone, for example, assist us in determining eligibility.

e. Coding Scheme Flags

Each table of the Coding Scheme (see Appendix B) has a flag associated with it that indicates the pattern of original responses and any recodes that were done. For example, the table for Note 5 has a flag N5.

f. Constructed Variables

Mathematica constructed additional variables that were used in the TRICARE Beneficiary Reports, TRICARE Consumer Watch, and the "Health Care Survey of DoD Beneficiaries: Annual Report." Often these variables were regroupings of questionnaire responses or the creation of a binary variable to indicate whether or not a TRICARE standard was met. Complete information on each constructed variable is found in section 2.D.

g. Weights

Mathematica developed weights for each record in the final database. Weights are required for the following reasons:

- To compensate for variable probabilities of selection
- To adjust for differential response rates
- To improve the precision of survey-based estimates through post-stratification

Weighting procedures are discussed in section 2.E.

TABLE 2.1

VARIABLES IN THE 2010 ADULT HCSDb DATA FILE – QUARTERS I-IV

SAMPLE VARIABLES	
MPRID	- Unique MPR identifier
SVCSMPL	- Branch of service sampling variable
SEXSMPL	- Sex sampling variable
STRATUM	- Sampling stratum
ENBGSMPL	- Enrollment by beneficiary category
MPCSMPL	- Military personnel category
NHFF	- Stratum sample size
D_HEALTH	- Health service region
TNEXREG	- TRICARE next generation of contracts region grouping
DEERS VARIABLES	
SERVAFF	- Service affiliation
RACEETHN	- Race/Ethnic code
PNSEXCD	- Person gender
RDAGEQY	- Age at time of sample preparation-Capped (18 and below, 86 and above)
RFLDAGE	- Age at start of fielding period-Capped (18 and below, 86 and above)
PCM	- Primary manager code (civilian or military)
ACV	- Alternate care value
DBENCAT	- Beneficiary category
DSPONSVC	- Derived sponsor branch of service
PATCAT	- Aggregated beneficiary category
PNTYPECD	- Person type code
QUESTIONNAIRE RESPONSES	
H10001	- Are you the person listed on envelope
H10002A	- Health plan(s) covered: TRICARE Prime
H10002C	- Health plan(s) covered: TRICARE Ext/Stnd
H10002F	- Health plan(s) covered: Medicare
H10002G	- Health plan(s) covered: FEHBP
H10002H	- Health plan(s) covered: Medicaid
H10002I	- Health plan(s) covered: Civilian HMO
H10002J	- Health plan(s) covered: Other civilian
H10002K	- Health plan(s) covered: USFHP
H10002L	- Health plan(s) covered: Not sure
H10002M	- Health plan(s) covered: Veterans
H10002N	- Health plan(s) covered: TRICARE Plus
H10002O	- Health plan(s) covered: TRICARE For Life
H10002P	- Health plan(s) covered: TRICARE Supplemental Insurance
H10002Q	- Health plan(s) covered: TRICARE Reserve Select
H10002R	- Health plan(s) covered: Other Non-US government health insurance
H10003	- Which health plan did you use most in the past 12 months?
H10004	- Months or years in a row with health plan
H10005	- In last year: facility used most for health care
H10006	- In last year: have illness/injury/condition that needed care right away
H10007	- In last year: how often got care as soon as you believed you need it
H10008	- In last year: wait between trying to get care and actually seeing a provider for an illness or injury
H10009	- In last year: made appointments for non-urgent health care
H10010	- In last year: how often got appointments for non-urgent health care as soon as you wanted
H10011	- In last year: days between making an appointment for regular or routine care and actually seeing a provider
H10012	- In last year: times went to an emergency room for own care

- H10013 - In last year: times went to a doctor's office or clinic for yourself (not counting times went to an emergency room)
- H10014 - In last year: how often talk to doctor or other health care provider about illness prevention
- H10015 - In last year: doctor or other health care provider talked about more than 1 choice for treatment
- H10016 - In last year: doctor talked about pros/cons of each treatment/health care choice
- H10017 - In last year: doctor/health care provider asked which treatment option you thought was best for you when there was more than one choice of treatment
- H10018 - Rating of all health care in last year
- H10019 - Have one person you think of as your personal doctor
- H10020 - In last year: number of times visited personal doctor for care for self
- H10021 - In last year: how often personal doctor listened carefully to you
- H10022 - In last year: how often personal doctor explained things in a way that was easy to understand
- H10023 - In last year: how often your personal doctor showed respect for what you have to say
- H10024 - In last year: how often your personal doctor spent enough time with you
- H10025 - In last year: got care from doctor or other health provider other than personal doctor
- H10026 - In last year: how often personal doctor seemed informed and up-to-date about care received from other doctors
- H10027 - Rating of your personal doctor
- H10028 - In last year: tried to make appointment to see a specialist
- H10029 - In last year: how often it was easy to get appointments with specialists
- H10030 - In last year: how many specialists seen
- H10031 - Rating of specialist seen most often in last year
- H10032 - In last year: tried to get care, tests, or treatment through health plan
- H10033 - In last year: how often easy to get care, tests, or treatment you thought you needed through health plan
- H10034B - In last year: looked for information in written material or on the Internet about how health plan works
- H10034 - In last year: how often written material/Internet provide information you needed about how your plan works
- H10035 - In last year: looked for information from health plan on cost of health care service or equipment
- H10036 - In last year: how often able to find out cost of health care service or equipment from health plan
- H10037 - In last year: looked for information from health plan on cost of prescription medications
- H10038 - In last year: how often able to find out cost of prescription medications
- H10039 - In last year: tried to get information or help from health plan's customer service
- H10040 - In last year: how often did customer service give needed information or help
- H10041 - In last year: how often did customer service treat with courtesy and respect
- H10042 - In last year: health plan gave forms to fill out
- H10043 - In last year: how often forms from health plan were easy to fill out
- H10044 - In last year: sent in any claims to your health plan
- H10045 - In last year: how often health plan handled claims quickly
- H10046 - In last year: how often health plan handled claims correctly
- H10047 - Rating of all experience with health plan
- H10048 - Blood pressure: when last reading
- H10049 - Blood pressure: know if blood pressure is too high or not
- H10050 - When did you last have a flu shot
- H10051 - Smoked at least 100 cigarettes in life
- H10052 - Smoke everyday, some days, or not at all
- H10053 - Last year: number of visits advised to quit smoking
- H10054 - Last year: number of visits medication was recommended or discussed to assist with quitting smoking

H10055	- Last year: number of visits recommended or discussed methods and strategies to assist quitting smoking
H10056	- Are you male or female
H10057	- Female: last have a Pap smear test
H10058	- Female: are you under age 40
H10059	- Female: last time breasts checked mammography
H10060	- Female: been pregnant in last year or pregnant now
H10061	- Female: in what trimester is your pregnancy
H10062	- Female: trimester first received prenatal care
H10063	- In general how would you rate your overall health
H10064	- Limited in any way in any activities because of any impairment or health problem
H10065	- In last year: seen doctor or other health provider 3 or more times for same condition or problem
H10066	- Condition lasted for at least 3 months
H10067	- Need to take medicine prescribed by a doctor
H10068	- Medicine to treat condition that has lasted for at least 3 months
H10069F	- Feet portion of height without shoes
H10069I	- Inches portion of height without shoes
H10070	- Weight without shoes in pounds
H10071	- Are you Spanish, Hispanic, or Latino
H10071A	- No, not Spanish, Hispanic, or Latino
H10071B	- Yes, Mexican, Mexican American, Chicano
H10071C	- Yes, Puerto Rican
H10071D	- Yes, Cuban
H10071E	- Yes, other Spanish, Hispanic, or Latino
H10072	- Currently covered Medicare part A
H10073	- Currently covered Medicare part B
H10074	- Currently covered Medicare supplemental
SREDA	- Highest grade completed
SRRACEA	- Race: White
SRRACEB	- Race: Black or African American
SRRACEC	- Race: American Indian or Alaska native
SRRACED	- Race: Asian
SRRACEE	- Race: Native Hawaiian/other Pacific Islander
SRAGE	- What is your age now?
S10009	- Had the same personal doctor or nurse before joining this health plan
S10010	- Since joined health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?
S10B01	- Self rating of overall mental/emotional health
S10B02	- Last year: needed treatment/counseling for personal/family problem
S10B03	- Last year: problem getting needed treatment/counseling
S10B04	- Last year: rating of treatment/counseling received
S10D03	- Currently smoke any tobacco products other than cigarettes, like cigars/pipes/kreteks/other
S10D02	- Currently use smokeless tobacco such as chewing tobacco or snuff every day, some days, or not at all
S10D05	- How many visits advised to quit using tobacco products other than cigarettes
S10011	- Able to see my provider when needed
S10014	- Satisfaction with health care received during last visit
S10G18	- Self/Spouse/Parent reservist on active duty for more than 30 consecutive days in support of contingency operations in past year
S10G19	- Reservist activated for contingency operations for more than 30 consecutive days in past year
S10G23	- Spouse/parent reservist activated for contingency operations for more than 30 consecutive days in past year
S10G27	- Covered by civilian health insurance before becoming eligible for TRICARE
S10G28	- Current health care coverage

S10G29A	- Don't use TRICARE: greater choice of doctors with my civilian plan
S10G29B	- Don't use TRICARE: better customer service with civilian plan
S10G29C	- Don't use TRICARE: personal doctor is not available through TRICARE
S10G29D	- Don't use TRICARE: TRICARE benefits are poor compared to civilian plan
S10G29E	- Don't use TRICARE: it is easier to get care through civilian plan
S10G29F	- Don't use TRICARE: pay less for civilian care than would for TRICARE
S10G29G	- Don't use TRICARE: no military facilities near me
S10G29H	- Don't use TRICARE: prefer civilian doctors
S10G29I	- Don't use TRICARE: prefer civilian hospitals
S10G29J	- Don't use TRICARE: happy with civilian plan and have no reason to change
S10G29K	- Don't use TRICARE: another reason
S10G30	- Self/policy holder now pay all/part of the premium for your civilian health insurance
S10G31	- Problem getting information about TRICARE benefits once become eligible for TRICARE
S10G32	- Is personal doctor a civilian
S10G33	- Personal doctor accepts TRICARE
S10G34	- Difficult to see personal doctor once become eligible for TRICARE
S10G35	- Difficult to see specialist once become eligible for TRICARE
S10G40	- Aware of TRICARE Reserve Select (TRS)
S10G41	- I/Sponsor eligible to purchase coverage under TRS
S10G42	- Aware of changes to TRS health plan
S10G43	- Enrolled in TRS since 10/1/2007
S10B23	- Past month: had nightmares or unwanted thoughts about an experience that was frightening, horrible, or upsetting
S10B24	- Past month: tried hard not to think about or went out of the way to avoid situations that remind you of experience that was frightening, horrible, or upsetting
S10B25	- Past month: constantly on guard, watchful, or easily startled after experience that was frightening, horrible, or upsetting
S10B26	- Past month: felt numb or detached from others, activities, or surroundings after experience that was frightening, horrible, or upsetting
S10B22	- You or spouse deployed to a combat zone within the past two years
S10V19	- Is prsnl doctor/nurse a civilian
S10V20	- Last year: how much problem to find prsnl doctor to accept TRICARE
S10V21A	- Problem finding Dr to accept TRICARE: travel distance too long
S10V21B	- Problem finding Dr to accept TRICARE: communicating with doctor(s)
S10V21C	- Problem finding Dr to accept TRICARE: doctor(s) not taking new patients
S10V21D	- Problem finding Dr to accept TRICARE: doctor(s) not taking new TRICARE patients
S10V21E	- Problem finding Dr to accept TRICARE: doctor(s) not accepting TRICARE payment
S10V21F	- Problem finding Dr to accept TRICARE: could not find the speciality I wanted
S10V21G	- Problem finding Dr to accept TRICARE: did not like doctor(s)
S10V21H	- Problem finding Dr to accept TRICARE: wait for an appointment was too long
S10V21I	- Problem finding Dr to accept TRICARE: could not find information about doctors
S10V21J	- Problem finding Dr to accept TRICARE: other
S10V22	- Is prsnl doctor/nurse in TRICARE civilian provider network
S10V06	- Last year: how much problem to find doctor from civilian provider network
S10V11A	- Problem finding Dr from civilian ntwk: travel distance too long
S10V11B	- Problem finding Dr from civilian ntwk: communicating with doctor(s)
S10V11C	- Problem finding Dr from civilian ntwk: doctor(s) not taking new patients
S10V11D	- Problem finding Dr from civilian ntwk: could not find the specialty I wanted
S10V11E	- Problem finding Dr from civilian ntwk: did not like doctor(s)
S10V11F	- Problem finding Dr from civilian ntwk: wait for an appointment was too long
S10V11G	- Problem finding Dr from civilian ntwk: could not find information about doctors
S10V11H	- Problem finding Dr from civilian ntwk: other
S10V11I	- Problem finding Dr from civilian ntwk: doctor's location inconvenient
S10V23	- Last year: did you see a civilian specialist
S10V24	- Last year: civilian specialist same as prsnl doctor
S10V25	- Last year: how much problem to find specialist to accept TRICARE

- S10V26A - Problem finding splst to accept TRICARE: travel distance too long
- S10V26B - Problem finding splst to accept TRICARE: communicating with doctor(s)
- S10V26C - Problem finding splst to accept TRICARE: doctor(s) not taking new patients
- S10V26D - Problem finding splst to accept TRICARE: doctor(s) not taking new TRICARE patients
- S10V26E - Problem finding splst to accept TRICARE: doctor(s) not accepting TRICARE payment
- S10V26F - Problem finding splst to accept TRICARE: could not find the speciality I wanted
- S10V26G - Problem finding splst to accept TRICARE: did not like doctor(s)
- S10V26H - Problem finding splst to accept TRICARE: wait for an appointment was too long
- S10V26I - Problem finding splst to accept TRICARE: could not find information about doctors
- S10V26J - Problem finding splst to accept TRICARE: other
- S10V27 - Last year: civilian specialist member of civilian network
- S10V28 - Specialty of civilian specialist you saw most often
- S10V07 - Last year: how much problem to find specialist from civilian provider network
- S10V12A - Problem finding specialist from civilian ntwk: travel distance too long
- S10V12B - Problem finding specialist from civilian ntwk: communicating with doctor(s)
- S10V12C - Problem finding specialist from civilian ntwk: doctor(s) not taking new patients
- S10V12D - Problem finding specialist from civilian ntwk: did not like doctor(s)
- S10V12E - Problem finding specialist from civilian ntwk: wait for an appointment was too long
- S10V12F - Problem finding specialist from civilian ntwk: could not find information about doctors
- S10V12G - Problem finding specialist from civilian ntwk: other
- S10V12H - Problem finding specialist from civilian ntwk: doctor's location inconvenient
- S10V01 - Last year: how much hlthcare received from civilian prvdr ntwk
- S10V02 - Last year: how much problem to get healthcare from civilian provider network
- S10V05 - Last year: doctor you wanted to see left civilian provider network
- S10V09 - Last year: doctor you wanted to see not seeing new TRICARE patients
- S10C09 - Lst yr: did you have a health problem for which you needed special medical equipment, such as a cane, a wheelchair, or oxygen equipment
- S10C10 - Lst yr: how much of a problem was it to get special medical equipment you needed through your health plan
- S10C11 - Lst yr: did you need special therapy, such as physical, occupational, or speech therapy
- S10C12 - Lst yr: how much of a problem was it to get special therapy you needed through your health plan
- S10C13 - Lst yr: did you need home health care or assistance
- S10C14 - Lst yr: how much of a problem was it to get home health care you needed through your health plan
- S10C01 - Is personal doctor a general doctor, specialist, physician assistant, or nurse
- S10C02 - How long have you been going to your personal doctor or nurse
- S10C03 - Do you have physical or mental condition that interferes with ability to work/attend school/manage day-to-day activities
- S10C04 - Does personal doctor or nurse understand how any health problems have affected day-to-day life
- S10C06 - Lst yr: were any decisions made about your health care
- S10C07 - Lst yr: how often were you involved as much as you wanted in these decisions about your health care
- S10C08 - Lst yr: how often was it easy to get your doctors to agree with you on the best way to manage your health conditions or problems
- S10C05 - Lst yr: how many times did you go to specialists for care for yourself
- S10Q01 - Have you ever had a blood stool test using a home kit
- S10Q02 - How long since last blood stool test using a home kit
- S10Q03 - Have you ever had a sigmoidoscopy or colonoscopy
- S10Q04 - How long since last sigmoidoscopy
- S10Q05 - How long since last colonoscopy
- S10C15 - Has an impairment or health problem caused you to need help with personal care needs such as eating, dressing, or getting around the house

S10C16	- Has an impairment or health problem caused you to need help with routine needs such as everyday household chores, doing necessary business, shopping, or getting around for oth
S10C17	- Do you have a physical or mental condition that interferes with independence, participation in the community, or quality of life
S10C18	- Rating of how well your health plan has done in providing the equipment, services, and help you need
S10C19	- In last year: been a patient in a hospital overnight or longer
S10R01	- Does health plan require referral from doctor to see specialist
S10R02	- Last yr: did doctor refer you to specialist
S10R03A	- How specialist selected in 1st yr: did not see specialist
S10R03B	- How specialist selected in 1st yr: doctor told me what specialist to see
S10R03C	- How specialist selected in 1st yr: suggestion from friend/relative
S10R03D	- How specialist selected in 1st yr: picked from list supplied by TRICARE or health plan
S10R03E	- How specialist selected in 1st yr: picked on my own
S10R04A	- How apptmnt made in 1st yr: contacted apptmnt line or referral desk
S10R04B	- How apptmnt made in 1st yr: called an MTF
S10R04C	- How apptmnt made in 1st yr: called personal doctor
S10R04D	- How apptmnt made in 1st yr: called specialist
S10R04E	- How apptmnt made in 1st yr: asked personal doctor to make appointment
S10R04F	- How apptmnt made in 1st yr: personal doctor made appointment
S10R04G	- How apptmnt made in 1st yr: other
S10R05	- Lst yr: how much prblm understanding process needed to see specialist
S10R06	- Lst yr: referred to any civilian specialist
S10R07	- How much prblm was wait time to see civilian specialist
S10R08	- Lst yr: longest time spent traveling to see civilian specialist
S10R09	- Lst yr: travel more than 100 miles to see civilian specialist
S10R10	- Lst yr: how often did dr seem informed about care from civilian specialist
S10R11	- Lst yr: referred to specialist at MTF
S10R12	- How much prblm was wait time to see specialist at MTF
S10R13	- Lst yr: longest time spent traveling to see specialist at MTF
S10R14	- Lst yr: travel more than 100 miles to see specialist at MTF
S10R15	- Lst yr: how often did dr seem informed about care from specialists at MTF

SURVEY FIELDING VARIABLES

ONTIME	- Responded within 8 weeks of mail-out
FLAG_FIN	- Final disposition
DUPFLAG	- Multiple response indicator
FNSTATUS	- Final status
KEYCOUNT	- Number of key questions answered
QUARTER	- Survey quarter
WEB	- Web survey indicator

CODING SCHEME FLAGS AND COUNTS

N1	- Coding scheme note 1
N2	- Coding scheme note 2
N3	- Coding scheme note 3
N4	- Coding scheme note 4
N5	- Coding scheme note 5
N5A1	- Coding scheme note 5A1
N5A2	- Coding scheme note 5A2
N5A3	- Coding scheme note 5A3
N6	- Coding scheme note 6
N6_Q3	- Coding scheme note 6_Q3
N6A1	- Coding scheme note 6A1
N7	- Coding scheme note 7
N8	- Coding scheme note 8
N8A1	- Coding scheme note 8A1
N8B1	- Coding scheme note 8B1

N9	- Coding scheme note 9
N10	- Coding scheme note 10
N10_Q3	- Coding scheme note 10_Q3
N10A1	- Coding scheme note 10A1
N10B1	- Coding scheme note 10B1
N10B2	- Coding scheme note 10B2
N10B3	- Coding scheme note 10B3
N10B4	- Coding scheme note 10B4
N10B5	- Coding scheme note 10B5
N10B6	- Coding scheme note 10B6
N10B7	- Coding scheme note 10B7
N11	- Coding scheme note 11
N11B	- Coding scheme note 11B
N12	- Coding scheme note 12
N13	- Coding scheme note 13
N14	- Coding scheme note 14
N15	- Coding scheme note 15
N16	- Coding scheme note 16
N16A1	- Coding scheme note 16A1
N16A2	- Coding scheme note 16A2
N16B1	- Coding scheme note 16B1
N16B2	- Coding scheme note 16B2
N16B3	- Coding scheme note 16B3
N16B4	- Coding scheme note 16B4
N16C1	- Coding scheme note 16C1
N16C2	- Coding scheme note 16C2
N16C3	- Coding scheme note 16C3
N16C4	- Coding scheme note 16C4
N17	- Coding scheme note 17
N18	- Coding scheme note 18
N19A	- Coding scheme note 19A
N19B	- Coding scheme note 19B
N20	- Coding scheme note 20
N21	- Coding scheme note 21
N21A1	- Coding scheme note 21A1
N22	- Coding scheme note 22
N23	- Coding scheme note 23
N24	- Coding scheme note 24
MISS_1	- Count of: violates skip pattern
MISS_3	- Count of: do not use other tobacco products response
MISS_4	- Count of: incomplete grid error
MISS_5	- Count of: scalable response of don't know
MISS_6	- Count of: not applicable - valid skip
MISS_7	- Count of: out-of-range error
MISS_9	- Count of: no response - invalid skip
MISS_TOT	- Total number of missing responses

CONSTRUCTED VARIABLES

XSERVAFF	- Service affiliation
XTNEXREG	- TRICARE next generation of contracts region grouping
XBMI	- Body mass index
XBMICAT	- Body mass index category
XENRLLMT	- Enrollment in TRICARE prime
XENR_PCM	- Enrollment by PCM type
XINS_COV	- Insurance coverage
XBENCAT	- Beneficiary category
XENR_RSV	- Enrollment by PCM type - reservist
XINS_RSV	- Insurance coverage - reservist

XREGION	- Region
XCATCH	- XCATCH - Catchment area (reporting)
USA	- CONUS/OCONUS indicator
XOCONUS	- Overseas Europe/Pacific/Latin indicator
OUTCATCH	- Out of catchment area indicator
XSEXA	- Male or female (recode)
XBNFGRP	- Constructed beneficiary group
KMILOPQY	- Outpatient visits to military facility
KCIVOPQY	- Outpatient visits to civilian facility
KCIVINS	- Beneficiary covered by civilian insurance
HP_PRNTL	- Pregnant in last year received care in 1st trimester
HP_MAMOG	- Women age 40 and over mammography in past 2 years
HP_MAM50	- Women age 50 and over mammography in past 2 years
HP_PAP	- All women pap smear in last 3 years
HP_BP	- Blood pressure check in last 2 years know results
HP_FLU	- Age 65 and older flu shot in last 12 months
HP_SMOKE	- Advised to quit smoking in last 12 months
HP_SMKH2	- Smoker under HEDIS definition (modified)
HP_CESH2	- Had smoking cessation counseling - HEDIS (modified)
HP_OBESE	- Obese or morbidly obese

POSTRATIFICATION VARIABLES

POSTCELL	- Poststratification cell for new weights
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WEIGHTS

BWT	- Basic sampling weight
FWRWT	- Final quarterly weight
CFWT	- Combined Annual Final Weight

2. Variable Naming Conventions

To preserve continuity with survey data from previous years, Mathematica followed the same variable naming conventions for the core questions used for the 1996, 1997, 1998, 1999, 2000, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 and 2010 survey data. Variable naming conventions for the 2010 Adult HCSDB core and supplemental questions, shown in Table 2.2 correspond to those of previous years. The suffix “_0” will be used to distinguish the original version of the variable from the recoded version. The public use files for the adult survey will contain only recoded variables.

Variables created from most survey questions begin with the character “H.” The next two characters are the third and fourth digits of the survey year. A small number of self-reported demographic variables begin with the characters “SR.”

Each quarter, the questionnaire includes a battery of questions on specific health care topics concerning services offered to MHS beneficiaries. Supplemental questions contain the same number of alphanumeric characters as the core questions; each variable begins with an “S” to distinguish it as a supplemental question.

TABLE 2.2

NAMING CONVENTIONS FOR 2010 HCSDB VARIABLES – QUARTERS I-IV
(VARIABLES REPRESENTING SURVEY QUESTIONS)

1 st Character: Survey Type	2 nd – 3 rd Characters: Survey Year	4 th – 6 th Characters: Question #	Additional Characters: Additional Information
<p>H= Health Beneficiaries (18 and older, Adult Questionnaire)</p> <hr/> <p>S = Supplemental Question</p>	<p>10</p>	<p>001 to 074</p> <hr/> <p>Quarter I 009-011, 014 – Supplemental questions about respondent’s personal doctor and about the visits to the respondent’s healthcare provider.</p> <p>B01-B04, B22-B26 – Supplemental questions about overall mental or emotional health.</p> <p>D02-D03 – Supplemental questions about respondent’s use of tobacco products.</p> <p>G18-G19, G23, G27-G35, G40-G43 – Supplemental questions about reservist coverage.</p> <p>Quarter II 009-011, 014 – Supplemental questions about respondent’s personal doctor and about the visits to the respondent’s healthcare provider.</p> <p>B01-B04 – Supplemental questions about overall mental or emotional health.</p> <p>D02-D03 – Supplemental questions about respondent’s use of tobacco products.</p> <p>V01-V02, V05-V07, V09, V11-V12, V19-V28 – Supplemental questions about TRICARE’s civilian network.</p> <p>Quarter III 009-011, 014 – Supplemental questions about respondent’s personal doctor and about the visits to the respondent’s healthcare provider.</p> <p>B01-B04 – Supplemental questions about overall mental or emotional health.</p> <p>C01-C19 – Supplemental questions about beneficiaries’ chronic conditions.</p>	<p>A to R are used to label responses associated with a multiple response question</p>

		<p>D02-D03, D05 – Supplemental questions about respondent’s use of tobacco products.</p> <p>Q01-Q05 – Supplemental questions about colon cancer screening tests.</p> <p>Quarter IV 009-011, 014 – Supplemental questions about respondent’s personal doctor and about the visits to the respondent’s healthcare provider.</p> <p>B01-B04 – Supplemental questions about overall mental or emotional health.</p> <p>R01-R15 – Supplemental questions about about the respondent’s experiences getting referrals to specialists.</p> <p>D02-D03, D05 – Supplemental questions about respondent’s use of tobacco products.</p>	
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1 st Characters: Variable Group	Additional Characters: Additional Information
SR=Self-reported demographic data	Descriptive text, e.g., SREDA
N=Coding scheme notes	Number referring to Note, e.g., N2
X=Constructed independent variable	Descriptive text, e.g., XREGION
HP=Constructed <i>Healthy People 2010</i> variable	Descriptive text, e.g., HP_BP (had blood pressure screening in past two years and know the results)
K=Constructed dependent variables	Descriptive text, e.g., KMILOPQY (total number of outpatient visits to military facility)
FW= Weighting variables	Descriptive text, e.g., FWRWT for the overall final quarterly weight, Number referring to replicate weights, e.g., FWRWT10
CFW= Annual weighting variables	Descriptive text, e.g., CFWT for the final annual weight; Number referring to replicate weights, e.g., CFWT10

3. Missing Value Conventions

The 2010 conventions for missing variables are the same as the 2009 conventions. All missing value conventions used in the 2010 HCSDB are shown in Table 2.3

TABLE 2.3

CODING OF MISSING DATA AND “NOT APPLICABLE” RESPONSES

ASCII or Raw Source Data	Edited and Cleaned SAS Data	Description
Numeric	Numeric	
-9	.	No response
-7	.O	Out of range error
-6	.N	Not applicable or valid skip
-5	.D	Scalable response of “Don’t know” or “Not sure”
-4	.I	Incomplete grid error
-1	.C	Question should have been skipped, not answered
	.B	No survey received

B. CLEANING AND EDITING

Data cleaning and editing procedures ensure that the data are free of inconsistencies and errors. Standard edit checks include the following:

- Checks for multiple surveys returned for any one person
- Range checks for appropriate values within a single question
- Logic checks for consistent responses throughout the questionnaire

We computed frequencies and cross tabulations of values at various stages in the process to verify the accuracy of the data. Data editing and cleaning proceeded in the following way:

1. Scan Review

Synovate spot checked the scanned results from the original survey to verify the accuracy of the scanning process and made any necessary corrections by viewing the returned survey.

2. Additional Synovate Editing and Coding

In preparing the database for Mathematica, Synovate used variable names and response values provided by Mathematica in the annotated questionnaires (see Appendix A). Synovate delivered to Mathematica a database in SAS format. In this database, any questions with no response were encoded with a SAS missing value code of ‘.’.

3. Duplicate or Multiple Surveys

At this stage, Synovate delivered to Mathematica a file containing one record for every beneficiary in the sample, plus additional records for every duplicate survey or multiple surveys received from any beneficiary. These duplicates and multiples were eliminated during record selection, and only the most complete questionnaire in the group was retained in the final database. Record selection is discussed in Section 2.C.

4. Removal of Sensitive or Confidential Information

The file that Mathematica received from Synovate contained sensitive information such as Social Security Number (SSN). Any confidential information was immediately removed from the file. Each beneficiary had already been given a generic ID (MPRID) substitute during sample selection, and the MPRID was retained as a means to uniquely identify each individual.

5. Initial Frequencies

Mathematica computed frequencies for all fields in the original data file. These tabulations served as a reference for the file in its original form and allowed comparison to final frequencies from previous years, helping to pinpoint problem areas that needed cleaning and editing. Mathematica examined these frequencies and cross-tabulations, using the results to adapt and modify the cleaning and editing specifications as necessary.

6. Data Cleaning and Recoding of Variables

Mathematica's plan for data quality is found in the 2010 Adult Coding Scheme for Quarters I-IV. It contains detailed instructions for all editing procedures used to correct data inconsistencies and errors. The Coding Scheme tables for Quarters I-IV are found in Appendix B. These tables outline in detail the approach for recoding self-reported fields, doing range checks, logic checks, and skip pattern checks to insure that responses are consistent throughout the questionnaire. The Coding Scheme tables specify all possible original responses and any recoding, also indicating if backward coding or forward coding was used. Every skip pattern is assigned a note number shown in the annotated questionnaire (Appendix A). This note number defines the flag (for example, the Note 5 flag is N5) that is set to indicate the pattern of the original responses and any recoding. Thus, if the value of N5 is 2, the reader can look at line 2 in the Note 5 table for the original and recoded response values.

The SAS programs implementing the Coding Scheme for each quarter are found in Appendix F.

a. Check Self-Reported Fields

Several survey questions seek information that can be verified with DEERS data and/or sampling variables. Nevertheless, in recoding these self-reported fields (such as sex, active duty status, and TRICARE enrollment) we used the questionnaire responses unless they were missing; in which case, we used the DEERS data. For example, if the question on the sex of the beneficiary was not answered, the recoded variable for self-reported sex was not considered missing but was given the DEERS value for gender. If there was any disagreement between questionnaire responses and DEERS data, the questionnaire response generally took precedence.

In many tables and charts in the reports, the DEERS information was used rather than the recoded self-reported information for active duty status and TRICARE enrollment.

b. Skip Pattern Checks

At several points in the survey, the respondent should skip certain questions. If the response pattern is inconsistent with the skip pattern, each response in the series was checked to determine which are most accurate, given the answers to other questions. Questions that are appropriately skipped were set to the SAS missing value of '.N'. Inconsistent responses, such as answering questions that should be skipped or not answering questions that should be answered, were examined for patterns that could be resolved. Frequently, responses to subsequent questions provide the information needed to infer the response to a question that was left blank. The 2010 Adult Coding Scheme for Quarters I-IV (see Appendix B) specifically addresses every skip pattern

and shows the recoded values for variables within each pattern; we back coded and/or forward coded to ensure that all responses are consistent within a sequence.

c. Missing Values

Synovate initially encoded any question with a missing response to a SAS missing value code of ‘.’. After verifying skip patterns, Mathematica recoded some of these responses to reflect valid skips (SAS missing value code of ‘.N’). The complete list of codes for types of missing values such as incomplete grids, and questions that should not have been answered is shown in Table 2.3.

Occasionally, missing questionnaire responses can be inferred by examining other responses. For example, if a respondent fails to answer H10025 about getting care from a doctor or other health provider besides your personal doctor, but goes on to answer how often he/her personal doctor seemed informed and up-to-date about the care received from these doctor’s or providers, then we assume that the answer to H10025 should have been “yes.” Using this technique, we recoded some missing questionnaire responses to legitimate responses.

d. Logic Checks

Most logic problems are due to inconsistent skip patterns, for example, when a male answers a question intended for women only. Other internal inconsistencies were resolved in the same manner as skip pattern inconsistencies — by looking at the answers to all related questions. For instance, several questions related to smoking were examined as a group to determine the most appropriate response pattern so that any inconsistent response could be reconciled to the other responses in the group.

7. Quality Assurance

Mathematica created an edit flag for each Coding Scheme table that indicates what, if any, edits were made in the cleaning and editing process. This logic was also used in previous years; variables such as N5 (see Appendix B) indicate exactly what pattern of the Coding Scheme was followed for a particular set of responses. These edit flags have a unique value for each set of original and recoded values, allowing us to match original values and recoded values for any particular sequence.

In order to validate the editing and cleaning process, Mathematica prepared cross-tabulations between the original variables and the recoded variables with the corresponding edit flag. This revealed any discrepancies that needed to be addressed. In addition, we compared unweighted frequencies of each variable with the frequencies from the original file to verify that each variable was accurately recoded. Mathematica reviewed these tabulations for each variable in the survey. If necessary, the earlier edit procedures were modified and the Coding Scheme program rerun. The resulting file was clean and ready for analysis.

C. RECORD SELECTION

To select final records, we first defined a code that classifies each sampled beneficiary as to his/her final response status. To determine this response status, we used postal delivery information provided by Synovate for each sampled beneficiary. This information is contained in the FLAG_FIN variable which is described in Table 2.4

TABLE 2.4

FLAG_FIN VARIABLE FOR 2010 HCSDB

Value	Questionnaire Return Disposition	Reason/Explanation Given	Eligibility
1	Returned survey	Completed and returned	Eligible
2	Returned ineligible	Returned with at least one question marked and information that the beneficiary was ineligible	Ineligible
3	Returned blank	Information sent that beneficiary is temporarily ill or incapacitated	Eligible
4	Returned blank	Information sent that beneficiary is deceased	Ineligible
5	Returned blank	Information sent that beneficiary is incarcerated or permanently incapacitated	Ineligible
6	Returned blank	Information sent that beneficiary left military, or divorced after reference date, or retired	Eligible
7	Returned blank	Information sent that beneficiary was not eligible on reference date	Ineligible
8	Returned blank	Blank form accompanied by reason for not participating	Eligible
9	Returned blank	No reason given	----
10	No return	Temporarily ill or incapacitated. Information came in by phone	Eligible
11	No return	Active refuser. Information came in by phone	Eligible
12	No return	Deceased. Information came in by phone	Ineligible
13	No return	Incarcerated or permanently incapacitated. Information came in by phone	Ineligible
14	No return	Left military or divorced after reference date, or retired. Information came in by phone	Eligible
15	No return	Not eligible on reference date. Information came in by phone	Ineligible
16	No return	Other eligible. Information came in by phone	Eligible
17	No return	No reason	---
18	Postal Non-Deliverables (PND)	No address remaining	---
19	PND	Address remaining at the close of field	---
20	Original Non-Locatable	No address at start of mailing	---
21	No return or returned blank	Written documentation declining participation, no reason given	Eligible
22	No return or returned blank	Hospitalized but no indication if temporary or permanent	---
23	Returned blank	Deployed	Eligible
24	No return	Deployed	Eligible
25	Deceased	Updating process identified beneficiary as deceased	Ineligible
26	Ineligible	Updating process identified beneficiary as not eligible for Military Health System plan	Ineligible

Using the above variables in Table 2.4, we classified all sampled beneficiaries into four groups:

- **Group 1:** Eligible, Questionnaire Returned. Beneficiaries who were eligible for the survey and returned a questionnaire with at least one question answered (FLAG_FIN = 1)

- **Group 2:** Eligible, Questionnaire Not Returned (or returned blank). Beneficiaries who did not complete a questionnaire but who were determined to be eligible for military health care by the reference date, that is, not deceased, not incarcerated, not permanently hospitalized (FLAG_FIN = 3, 6, 8, 10, 11, 14, 16, 21, 23, 24)
- **Group 3:** Ineligible Beneficiaries who were ineligible because of death, institutionalization, or no longer being in the MHS as of the reference date (FLAG_FIN = 2, 4, 5, 7, 12, 13, 15, 25, 26)
- **Group 4:** Eligibility Unknown. Beneficiaries who did not complete a questionnaire and for whom survey eligibility could not be determined (FLAG_FIN = 9, 17, 18, 19, 20, 22)

Group 1 was then divided into two subgroups according to the number of survey items completed (including legitimate skip responses):

- G1-1. Complete questionnaire returned
- G1-2. Incomplete questionnaire returned

G1-1 consists of eligible respondents who answered “enough” questions to be classified as having completed the questionnaire. G1-2 consists of eligible respondents who answered only a few questions. To determine if a questionnaire is “complete”, 20 key questions were chosen. These key questions were adapted from the complete questionnaire rule developed by AHRQ for CAHPS V4 surveys. At least 50 percent of these key items (more than nine) must be answered for a questionnaire to be accepted as a complete questionnaire. The key survey variables are: H10003, H10005, H10006, H10009, H10013, H10018, H10019, H10027, H10028, H10031, H10033, H10039, H10042, H10047, H10050, H10051, H10063, H10071, SREDA and the race indicator.

Group 3 was then divided into two subgroups according to how ineligible beneficiaries were identified:

- G3-1. Returned ineligible (FLAG_FIN = 2, 4, 5, 7, 12, 13, 15)
- G3-2. Ineligible at time of Altarum address update (FLAG_FIN = 25, 26)

G3-1 consists of ineligible beneficiaries who responded to the survey request, but told us they were ineligible. G3-2 consists of beneficiaries identified as ineligible during the updating process.

Furthermore, we also subdivided Group 4 into the following:

- G4-1 for locatable-blank return/no reason or no return/no reason (FLAG_FIN = 9, 17, 22)
- G4-2 for nonlocatable-postal nondeliverable/no address, postal nondeliverable/had address, or original nonlocatable (FLAG_FIN = 18, 19, 20).

With this information, we can calculate the location rate (see Section 4.A).

With a code (FNSTATUS) for the final response/eligible status, we classified all sampled beneficiaries using the following values of FNSTATUS:

- 11 for G1-1
- 12 for G1-2
- 20 for Group 2
- 31 for G3-1
- 32 for G3-2
- 41 for G4-1

- 42 for G4-2

There were altogether 1209 duplicate questionnaires in the four quarterly data sets Synovate delivered. All duplicates were classified into one of the above six groups. We then retained the one questionnaire for each beneficiary that had the most “valid” information for the usual record selection process. For example, if two returned questionnaires from the same beneficiary have FNSTATUS code values of 11, 12, 20, 41, or 42, we retained the questionnaire with the smaller value. However, if one of a pair of questionnaires belongs to Group 3 (FNSTATUS = 31 or 32, i.e., ineligible), then we regarded the beneficiary as being ineligible.

Only beneficiaries with FNSTATUS = 11 were retained. All other records were dropped. In Quarters I-IV, we retained 49,475 respondents.

D. CONSTRUCTED VARIABLES

One of the most important aspects of database development is the formation of constructed variables and scale variables to support analysis. Constructed variables are formed when no single question in the survey defines the construct of interest. In Table 2.1 there is a list of all constructed variables for 2010. Each constructed variable is discussed in this section and the relevant piece of SAS code is shown. All SAS programs can be found in Appendix F.

1. Demographic Variables

a. Region (XREGION)

Catchment area codes (CACSMPL not retained in public use file to maintain confidentiality) are used to classify beneficiaries into lead agent’s regions. These regions corresponded to the administrative organization of TRICARE before reorganization in 2004. The XREGION variable partitions all catchment areas into non-overlapped regions so that we can report catchment-level estimates in the catchment reports. The regions are defined as follows:

- 1 = Northeast
- 2 = Mid-Atlantic
- 3 = Southeast
- 4 = Gulfsouth
- 5 = Heartland
- 6 = Southwest
- 7,8 = Central
- 9 = Southern California
- 10 = Golden Gate
- 11 = Northwest
- 12 = Hawaii
- 13 = Europe
- 14 = Western Pacific Command (Asia)
- 15 = TRICARE Latin America
- 16 = Alaska
- . = Unassigned (CACSMPL = 9999)

For the purposes of our analysis, Region 7 and Region 8 were combined.

```
/* XREGION –HEALTH CARE REGIONS */
IF CACSMPL IN (0035, 0036, 0037, 0066, 0067,
              0068, 0069, 0081, 0086, 0100,
              0123, 0306, 0310, 0321, 0326,
              0330, 0385, 0413, 6201, 6223) THEN XREGION= 1;
ELSE IF CACSMPL IN (0089, 0090, 0091, 0092, 0120,
                  0121, 0122, 0124, 0335, 0378, 0387, 0432,
                  0433, 0508, 7143, 7286, 7294) THEN XREGION= 2;
ELSE IF CACSMPL IN (0039, 0041, 0045, 0046, 0047,
                  0048, 0049, 0050, 0051, 0101,
                  0103, 0104, 0105, 0337, 0356,
                  0405, 0422, 0511 ) THEN XREGION= 3;
ELSE IF CACSMPL IN (0001, 0002, 0003, 0004, 0038,
                  0042, 0043, 0073, 0074, 0107,
                  0297, 7139 ) THEN XREGION= 4;
ELSE IF CACSMPL IN (0055, 0056, 0060, 0061, 0095,
                  9905 ) THEN XREGION= 5;
ELSE IF CACSMPL IN (0013, 0062, 0064, 0096, 0097,
                  0098, 0109, 0110, 0112, 0113,
                  0114, 0117, 0118, 0338, 0363,
                  0364, 0365, 0366, 1587, 1592, 7236, 9906 ) THEN XREGION= 6;
ELSE IF CACSMPL IN (0008, 0009, 0010, 0079, 0083,
                  0084, 0085, 0108, 9907 ) THEN XREGION= 7;
ELSE IF CACSMPL IN (0031, 0032, 0033, 0053, 0057,
                  0058, 0059, 0075, 0076, 0077,
                  0078, 0093, 0094, 0106, 0119,
                  0129, 0252, 7200, 7293, 9908 ) THEN XREGION= 8;
ELSE IF CACSMPL IN (0018, 0019, 0024, 0026, 0029, 0030,
                  0131, 0213, 0231, 0248, 0407, 5205,
                  6215, 9909 ) THEN XREGION= 9;
ELSE IF CACSMPL IN (0014, 0015, 0028, 0235, 0250,
                  9910 ) THEN XREGION=10;
ELSE IF CACSMPL IN (0125, 0126, 0127, 0128, 0395, 1646,
                  9911 ) THEN XREGION=11;
ELSE IF CACSMPL IN (0052, 0280, 0287, 0534, 7043, 9912 ) THEN XREGION=12;
ELSE IF CACSMPL IN (0606, 0607, 0609, 0617, 0618,
                  0623, 0624, 0629, 0633, 0635,
                  0653, 0805, 0806, 0808, 0814,
                  8931, 8982, 9913 ) THEN XREGION=13;
ELSE IF CACSMPL IN (0610, 0612, 0620, 0621, 0622,
                  0637, 0638, 0639, 0640, 0802,
                  0804, 0853, 0862, 9914 ) THEN XREGION=14;
ELSE IF CACSMPL IN (0449, 0613, 0615, 0616, 9915 ) THEN XREGION=15;
ELSE IF CACSMPL IN (0005, 0006, 0203, 9916 ) THEN XREGION=16;
ELSE IF CACSMPL = 9999 THEN XREGION= .;

IF CACSMPL IN (9901,9902,9903,9904) THEN DO;
  IF D_HEALTH NOT IN ('00','17','18','19') THEN DO;
    XREGION=INPUT(D_HEALTH,8.)+0;
  END;
ELSE DO;
  IF DCATCH IN ('0037', '0067', '0123', '0781', '0907',
               '0908', '0920', '0921', '0922', '0930',
               '0931', '0933', '0939', '0940', '0946',
```

```

        '0995')
    THEN XREGION=1;
    ELSE IF DCATCH IN ('0124', '0934', '0996')
        THEN XREGION=2;
    ELSE IF DCATCH IN ('0039', '0048', '0105', '0911', '0941',
        '0987')
        THEN XREGION=3;
    ELSE IF DCATCH IN ('0003', '0787', '0901', '0925', '0943',
        '0988', '0989')
        THEN XREGION=4;
    ELSE IF DCATCH IN ('0055', '0056', '0061', '0782', '0783',
        '0789', '0914', '0915', '0918', '0923',
        '0936', '0950')
        THEN XREGION=5;
    ELSE IF DCATCH IN ('0113', '0904', '0937', '0990', '0993')
        THEN XREGION=6;
    ELSE IF DCATCH IN ('0785', '0929', '0932')
        THEN XREGION=7;
    ELSE IF DCATCH IN ('0078', '0784', '0788', '0906', '0917',
        '0924', '0927', '0928', '0935', '0942',
        '0945', '0951', '0974')
        THEN XREGION=8;
    ELSE IF DCATCH IN ('0029', '0786', '0986')
        THEN XREGION=9;
    ELSE IF DCATCH IN ('0014', '0985')
        THEN XREGION=10;
    ELSE IF DCATCH IN ('0125', '0938', '0948', '0973')
        THEN XREGION=11;
    ELSE IF DCATCH IN ('0912')
        THEN XREGION=12;
    ELSE IF DCATCH IN ('0957', '0958', '0960', '0964', '0966',
        '0967', '0976', '0977', '0979',
        '0982')
        THEN XREGION=13;
    ELSE IF DCATCH IN ('0006', '0052', '0640', '0961', '0963',
        '0965', '0978', '0983')
        THEN XREGION=14;
    ELSE IF DCATCH IN ('0075', '0120', '0615', '0622', '0953',
        '0970', '0971', '0972', '0975')
        THEN XREGION=15;
    ELSE IF DCATCH IN ('0902')
        THEN XREGION=16;
    END;
END;
```

```

IF D_PAR = '0902' THEN XREGION=16;
IF XREGION = 0 THEN XREGION = .;
```

b. United States (USA)

XREGION is used to classify beneficiaries either in the United States or overseas

USA stands for United States including both Alaska and Hawaii.

```
IF XREGION IN (1,2,3,4,5,6,7,8,9,10,11,12,16) THEN USA=1;
ELSE IF XREGION IN (13,14,15) THEN USA=0;
ELSE IF XREGION = . THEN USA=.;
```

c. Overseas (XOCONUS)

XREGION is used to classify beneficiaries who are overseas as follows:

```
1=Europe
2=Western Pacific
3=Latin America
.=In Conus/Missing Region
```

```
IF XREGION=13 THEN XOCONUS=1;
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;
```

d. TRICARE Next Generation of Contracts Region (XTNEXREG)

XREGION is used to create XTNEXREG. XTNEXREG is the TRICARE Next Generation of Contracts Region grouping.

```
1=North
2=South
3=West
4=Overseas
```

```
IF XREGION IN (1,2,5) THEN XTNEXREG=1; /* North */
ELSE IF XREGION IN (3,4,6) THEN XTNEXREG=2; /* South */
ELSE IF XREGION IN (7,8,9,10,11,12,16) THEN XTNEXREG=3; /* West */
ELSE IF XREGION IN (13,14,15) THEN XTNEXREG=4; /* Overseas */
```

e. Out of Catchment Area (OUTCATCH)

CACSMPL is used to classify beneficiaries either in a catchment area or outside a catchment area.

```
/* OUTCATCH – OUT OF CATCHMENT AREA */
IF 9900 < CACSMPL < 9999 THEN OUTCATCH=1; /* Out of catchment area */
ELSE IF CACSMPL = 9999 THEN OUTCATCH=.;
ELSE OUTCATCH=0; /* Catchment area */
```

f. Catchment (XCATCH)

XCATCH is an MTF catchment area for annual beneficiary reports. The catchment is defined as follows:

```
LENGTH XCATCH 8;
com_geo = geocell;
if pcm = 'MTF' then do;
%INCLUDE "%\..\..\Q4_2010\Programs\Sampling\AssignCOM_GEO.inc"
else if ('1976' <= enrid <= '1980') or ('6301' <= enrid <= '6323') or
('6991' <= enrid <= '6994') or ('6501' <= enrid <= '6512') or
('7166' <= enrid <= '7195') or ('6700' <= enrid <= '6881') or enrid = '0000' or
('8001' <= enrid <= '8036') or ('6901' <= enrid <= '6919') or
('3031' <= enrid <= '3057') or
enrid in ('0002', '0041', '0044', '0082', '0111', '0213', '0235', '0585', '5208', '0250',
'0449', '0626', '0012') or
('0190' <= enrid <= '0199') then com_geo = geocell;
```

```

else com_geo = d_par;
end;
else if patcat='ACTDTY' then com_geo=d_par;

if d_fac='NONCAT' or d_fac='TGRO' or d_fac='TPR' then do;
  if d_health in ('01','02','05','17') then com_geo = '9901';
  else if d_health in ('03','04','06','18') then com_geo = '9902';
  else if d_health in ('07','08','09','10','11','12','19') then com_geo = '9903';
  else if d_health in ('00','13','14','15') then com_geo = '9904';
end;
*****
***d_fac="TPR" and d_health = '17', '18', '19' were added above for Q4, 2004, ***;
***since we got the new regions 17(North T_NEX),18(South T_NEX),19(West T_NEX).***;
*****

*** If the facility is unknown then set com_geo indicates unknown facility ***;
*** '0999' added 03/15 to account for id 6992;
if com_geo in ('9900', '0999', '0998', ' ') then com_geo = '9904';

*****
***Made the following 9 Navy sites stand alone in q1,2005: ***;
***'0026','0068','0231','0378','0387','0405','0407','0508','6215'***;
*****

if geocell in ('0026','0068','0231','0378','0387','0405','0407','0508','6215') then com_geo=geocell;

xcatch = INPUT(com_geo,8.);
label xcatch = "XCATCH - Catchment Area (Reporting)";

```

g. Gender of Beneficiary (XSEXA)

XSEXA is constructed using self reported sex, gender identified on the DEERS database, and answers to gender specific questions.

1=Male
2=Female

/* Note 19 - gender H10056, SEX, H10057—H10062,
XSEXA */

/* 1/21/98 use SRSEX & responses to gender specific questions
if there is discrepancy between SRSEX and SEX */
/* set imputed FMALE based on gender specific questions */

ARRAY fmaleval H10057 H10058 H10059 H10060 H10061 H10062
;

cntfemale=0;
DO OVER fmaleval; /* mammogram/pap smear/PREGNANT*/
IF fmaleval>0 THEN cntfemale=cntfemale+1;
END;

IF cntfemale>0 THEN FMALE=1;
ELSE FMALE = 0;


```

IF H10056=. THEN DO;
  IF (SEX='F' AND FMALE) THEN DO;
    N19a=1;
    XSEXa=2;
  END;
  ELSE IF (SEX='F' AND FMALE=0) THEN DO;
    N19a=2;
    XSEXa=2;
  END;
  ELSE IF (SEX='M' AND FMALE) THEN DO;
    N19a=3;
    XSEXa=1;
  END;
  ELSE IF (SEX='M' AND FMALE=0) THEN DO;
    N19a=4;
    XSEXa=1;
  END;
  ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
    N19a=5;
    XSEXa=2;
  END;
  ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
    N19a=6;
    XSEXa=.;
  END;
  ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
    N19a=7;
    XSEXa=.;
  END;
END;
ELSE IF (H10056=1) THEN DO;
  IF FMALE=0 THEN DO;
    N19a=8;
    XSEXa=1;
  END;
  ELSE IF FMALE THEN DO;
    IF SEX='F' THEN DO;
      N19a=9;
      XSEXa=2;
    END;
    ELSE DO;
      N19a=10;
      XSEXa=1;
    END;
  END;
END;
ELSE IF (H10056=2) THEN DO;
  IF FMALE THEN DO;
    N19a=11;
    XSEXa=2;
  END;
  ELSE IF FMALE=0 THEN DO;
    IF SEX='M' THEN DO;
      N19a=12;
      XSEXa=1;
    END;
  END;
END;

```

```
END;  
ELSE DO;  
  N19a=13;  
  XSEXa=2;  
END;  
END;  
END;
```

h. Beneficiary Group (XBNFGRP)

We redefined beneficiary groups to exclude any active duty personnel and any active duty family members who are age 65 or older. The variable XBNFGRP reconstructs beneficiary groups into the following values:

1 = Active Duty, under 65
2 = Family members of active duty, under 65
3 = Retirees, survivors, and family members, under 65
4 = Retirees, survivors, and family members, 65 or over
. = Unknown/other

/* XBNFGRP-Beneficiary Group that excludes those 65 and over-Active Duty and Family Members of Active Duty */

```
IF FIELDAGE >= 65 AND ENBGSMPL IN (1, 2, 3, 4) THEN XBNFGRP = .;  
  ELSE IF ENBGSMPL = 1 THEN XBNFGRP = 1;  
  ELSE IF ENBGSMPL IN (2, 3, 4) THEN XBNFGRP = 2;  
  ELSE IF ENBGSMPL IN (5, 6, 7) THEN XBNFGRP = 3;  
  ELSE IF ENBGSMPL IN (8, 9, 10) THEN XBNFGRP = 4;  
  ELSE IF ENBGSMPL IN (11) THEN XBNFGRP = .;
```

i. Service Affiliation (XSERVAFF)

We redefined service affiliation to collapse coast guard, administrative, support contractor, USTF, noncatchment, other, not available, missing/unknown service affiliations into a single category. The variable XSERVAFF reconstructs service affiliation into the following values:

1 = Army
2 = Air Force
3 = Navy
4 = Other

```
IF SERVAFF='A' THEN XSERVAFF=1; *Army;  
IF SERVAFF='F' THEN XSERVAFF=2; *Air Force;  
IF SERVAFF='N' THEN XSERVAFF=3; *Navy;
```

```
/**Coast Guard, Administrative, Support Contractor, USTF, Noncatchment,  
  Other, Not available, Missing/unknown  
  *** will collapse to other per Eric Shone ***/
```

```
IF SERVAFF IN ('C' 'J' 'M' 'T' 'S' 'O' 'X' ' ') THEN XSERVAFF=4; *Other;
```

2. TRICARE Prime Enrollment and Insurance Coverage

a. TRICARE Prime Enrollment Status (XENRLLMT)

For reporting purposes, a person is considered enrolled in TRICARE Prime if they are under 65 and the poststratification enrollment type (ENBGSMPL), based on DEERS data, indicates that they were enrolled at the time of data collection. Because it is important to view the experiences of active duty personnel separately from other enrollees, there is a separate category for active duty (under 65) — they are automatically enrolled in Prime. The five categories for TRICARE Prime enrollment are as follows:

- 1 = Active duty, under 65
- 2 = Other enrollees, under 65
- 3 = Not enrolled in TRICARE Prime, under 65
- 4 = Not enrolled in TRICARE Prime, 65 or over
- 5 = Enrolled in TRICARE Prime, 65 or over
- . = Unknown

```
/* XENRLLMT—ENROLLMENT STATUS */
IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 1 THEN XENRLLMT = 1;          /* Active duty (<65) */
  ELSE IF INPUT(ENBGSMPL,8.) IN (2, 3, 5, 6) THEN XENRLLMT = 2; /* Non-active duty
enrolled (<65)*/
  ELSE IF INPUT(ENBGSMPL,8.) IN (4, 7,11) THEN XENRLLMT = 3; /* Not Enrolled (<65)*/
END;
ELSE IF INPUT(FIELDAGE,8.) >= 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 10 THEN XENRLLMT = 4;        /* Not Enrolled (65+)*/
  IF INPUT(ENBGSMPL,8.) IN (8,9) THEN XENRLLMT = 5;   /* Enrolled (65+) */
END;
```

b. TRICARE Prime Enrollment Status by Primary Care Manager (XENR_PCM)

This variable, similar to the previous variable XENRLLMT, separates the enrollees other than the active duty category into those with a military primary care manager (PCM) and those with a civilian PCM. Active duty personnel are automatically enrolled and always have a military PCM. XENR_PCM has seven possible values:

- 1 = Active duty, under 65, military PCM
- 2 = Other enrollees, under 65, military PCM
- 3 = Other enrollees, under 65, civilian PCM
- 4 = Not enrolled in TRICARE Prime, under 65
- 5 = Not enrolled in TRICARE Prime, 65 or over
- 6 = Enrolled in TRICARE Prime, 65 or over, military PCM
- 7 = Enrolled in TRICARE Prime, 65 or over, civilian PCM
- . = Unknown

```
/* XENR_PCM—ENROLLMENT BY PCM TYPE */
IF 17 <= FIELDAGE < 65 THEN DO;
  IF ENBGSMPL = 1 THEN XENR_PCM = 1;          /* Active duty (<65) */
  ELSE IF ENBGSMPL IN (3, 6) THEN XENR_PCM = 2; /* Enrolled (<65) - mil PCM */
  ELSE IF ENBGSMPL IN (2, 5) THEN XENR_PCM = 3; /* Enrolled (<65) - civ PCM */
  ELSE IF ENBGSMPL IN (4, 7,11) THEN XENR_PCM = 4; /* Not Enrolled (<65) */
END;
ELSE IF FIELDAGE >= 65 THEN DO;
  IF ENBGSMPL = 10 THEN XENR_PCM = 5;        /* Not Enrolled (65+) */
  IF ENBGSMPL = 9 THEN XENR_PCM = 6;        /* Enrolled (65+)-mil PCM */
END;
```

```

    IF ENBGSMPL = 8 THEN XENR_PCM = 7;      /* Enrolled (65+)-civ PCM */ /*NJ_Q2*/
  END;
END;

```

c. Most-Used Health Plan (XINS_COV)

The respondent's most-used health plan comes directly from variable H10003 (unless the respondent is active duty) and the respondent's age. All active duty personnel are automatically enrolled in Prime. The eight categories for this variable are as follows:

1 = Active duty, under 65
 2 = Other TRICARE Prime enrollees, under 65
 3 = TRICARE Standard/Extra (CHAMPUS)
 4 = Medicare Part A and/or Part B
 5 = Other civilian health insurance or civilian HMO
 6 = Prime, 65 or over
 7 = TRICARE Plus and Medicare
 8 = Veterans Administration (VA)
 9 = TRICARE Reserve Select
 . = Unknown

```

/* XINS_COV--INSURANCE COVERAGE */
IF XENRLLMT = 1 THEN XINS_COV = 1;          /* Prime <65-Active Duty */
  ELSE IF 17 <= INPUT(FIELDAGE,8.) < 65 AND H10003 IN (1) THEN XINS_COV = 2; /* Prime
<65-Non-active Duty */
  ELSE IF H10003 = 3 THEN XINS_COV = 3;     /* Standard/Extra */
  ELSE IF H10003 = 11 THEN XINS_COV = 7;    /* Plus and Medicare */
  ELSE IF H10003 = 4 THEN XINS_COV = 4;     /* Medicare*/
  ELSE IF H10003 IN (5,6, 7, 8, 9, 13) THEN XINS_COV = 5; /* Other civilian health insurance*/
  ELSE IF H10003 = 10 THEN XINS_COV = 8;    /* Veterans Administration (VA) */
  ELSE IF H10003 = 12 THEN XINS_COV = 9;    /* TRICARE Reserve Select */
  ELSE IF (INPUT(FIELDAGE,8.)>= 65 AND XENRLLMT = 5 and H10003 = 1) THEN XINS_COV
= 6; /* Prime, >= 65 */
  ELSE IF H10072=1 AND H10073=1 AND H10003 NE .N THEN XINS_COV = 4; /* NEW Q2
Medicare/Medicaid */

```

d. Insurance coverage distinguishing reservists from Active Duty (XINS_RSV)

This variable is similar to XINS_COV but separates reservists from other active duty. XINS_RSV has 10 possible values:

1 = Prime <65-Active Duty (Non reservists)
 2 = Prime <65-Non-active Duty
 3 = Standard/Extra
 4 = Medicare/Medicaid
 5 = Other civilian health insurance
 6 = Prime, >= 65
 7 = Plus and Medicare
 8 = Veterans Administration (VA)
 9 = TRICARE Reserve Select
 10 = Prime <65-Active Duty (Reservists)
 . = Unknown

```

/* XINS_RSV--INSURANCE COVERAGE DISTINGUISHING RESERVISTS FROM ACTIVE
DUTY*/
IF XENRLLMT = 1 THEN DO;
  IF XBENCAT IN (1) THEN XINS_RSV = 1;      /* Prime <65-Active Duty (Non reservists) */
  ELSE IF XBENCAT IN (3,5) THEN XINS_RSV=10; /* Prime <65-Active Duty (Reservists) */

```

```

END;
ELSE IF 17 <= INPUT(FIELDAGE,8.) < 65 AND H10003 IN (1) THEN XINS_RSV = 2; /* Prime
<65-Non-active Duty */
ELSE IF H10003 =3 THEN XINS_RSV = 3;          /* Standard/Extra */
ELSE IF H10003 = 11 THEN XINS_RSV = 7;       /* Plus and Medicare */
ELSE IF H10003 = 4 THEN XINS_RSV = 4;       /* Medicare*/
ELSE IF H10003 IN (5,6, 7, 8, 9, 13) THEN XINS_RSV = 5; /* Other civilian health insurance*/
ELSE IF H10003 = 10 THEN XINS_RSV = 8;      /* Veterans Administration (VA) */
ELSE IF H10003 = 12 THEN XINS_RSV = 9;      /* TRICARE Reserve Select */
ELSE IF (INPUT(FIELDAGE,8.)>= 65 AND XENRLMT = 5 and H10003 = 1) THEN XINS_RSV
= 6; /* Prime, >= 65 */
ELSE IF H10072=1 AND H10073=1 AND H10003 NE .N THEN XINS_RSV = 4;          /*
Medicare/Medicaid */

```

e. Enrollment distinguishing reservists from Active Duty (XENR_RSV)

This variable is similar to XENR_PCM but separates reservists from other active duty.
XINS_RSV has 8 possible values:

- 1 = Active duty (<65) Non reservists
- 2 = Enrolled (<65) - mil PCM
- 3 = Enrolled (<65) - civ PCM
- 4 = Not Enrolled (<65)
- 5 = Not Enrolled (65+)
- 6 = Enrolled (65+)-mil PCM
- 7 = Enrolled (65+)-civ PCM
- 8 = Active duty (<65) Reservists
- . = Unknown

```

/* XENR_RSV--ENROLLMENT DISTINGUISHING RESERVISTS FROM ACTIVE DUTY */
IF 18 <= INPUT(FIELDAGE,8.) < 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 1 THEN DO;
    IF XBENCAT IN (1) THEN XENR_RSV = 1;          /* Active duty (<65) Non reservists */
    ELSE IF XBENCAT IN (3,5) THEN XENR_RSV = 8;   /* Active duty (<65) Reservists */
  END;
  ELSE IF INPUT(ENBGSMPL,8.) IN (3, 6) THEN XENR_RSV = 2; /* Enrolled (<65) - mil
PCM */
  ELSE IF INPUT(ENBGSMPL,8.) IN (2, 5) THEN XENR_RSV = 3; /* Enrolled (<65) - civ
PCM */
  ELSE IF INPUT(ENBGSMPL,8.) IN (4, 7,11) THEN XENR_RSV = 4; /* Not Enrolled (<65)
*/
END;
ELSE IF INPUT(FIELDAGE,8.) >= 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 10 THEN XENR_RSV = 5; /* Not Enrolled (65+) */
  IF INPUT(ENBGSMPL,8.) = 9 THEN XENR_RSV = 6; /* Enrolled (65+)-mil PCM */
  IF INPUT(ENBGSMPL,8.) = 8 THEN XENR_RSV = 7; /* Enrolled (65+)-civ PCM */
END;

```

f. Types of Coverage (KCIVINS)

A binary variable was created to indicate the type of insurance that respondents use:

- Is the respondent covered by private civilian insurance (KCIVINS)

This variables has the following values:

- 1 = Yes
- 2 = No
- . = Unknown

IF H10002G=1 OR H10002I=1 OR H10002J=1 THEN KCIVINS=1; /* YES */
 ELSE KCIVINS=2; /* NO */
 /* KCIVINS--IS BENEFICIARY COVERED BY PRIVATE CIVILIAN INSURANCE */

3. Preventive Care

(HP_PRNTL, HP_MAMOG, HP_MAM50, HP_PAP, HP_BP, HP_FLU, HP_SMOKE,
 HP_SMOKH, HP_SMKH2, HP_CESH2, HP_OBESE, XBMI, XBMICAT)

Preventive care analyses incorporate either a TRICARE standard or a federal Healthy People 2010 objective. We constructed new binary variables from the responses to indicate whether the respondent received the preventive care service within the recommended time period. See Table 2.6 for the list of the variables developed for analysis of preventive care; these variables will be compared to the TRICARE standard or Healthy People 2010 Goal. New versions of variables identifying smoking and smoking cessation counseling were added because of changes to the questionnaire. With the exception of XBMI and XBMICAT, the new preventive care variables have the following values:

- 1 = Received service within the recommended time period
- 2 = Did not receive service within the recommended time period
- . = Missing information

TABLE 2.6
 PREVENTIVE CARE STANDARDS

Preventive Care Delivered	Relevant Question	Variable Name	Received Service In Recommended Time Period (Numerator)	Population Involved (Denominator)	Standard
Blood Pressure Check	H10048 & H10049	HP_BP	Number with care in the past 24 months and know the results	Adults	95% within past 2 years
Flu Shot	H10050	HP_FLU	Number with care in the past 12 months	Adults age 65 and older	90% in past year, age 65 and over
Pap Smear	H10057	HP_PAP	Number with care in the past 36 months	Adult females	90% in the past 36 months
Mammography	H10059	HP_MAMOG	Number with care in the past 24 months	Females age 40 and over	70% in the past 24 months
Mammography	H10059	HP_MAM50	Number with care in the past 24 months	Females age 50 and over	70% in the past 24 months
Smoker	H10053	HP_SMOKE	Number that smoked in the past 12 months	Adults	12% in the last 12 months
Smoker	H10051 & H10052	HP_SMKH2	Number that smoked in the past 12 months	Adults	12% in the last 12 months
Smoking Cessation	H10051, H10052, & H10053	HP_CESH2	Number that smoked in the past 12 months	All current adult smokers and those who quit smoking within the past year	None
Prenatal Care	H10060, H10061, H10062	HP_PRNTL	Number with care in the first trimester	Currently pregnant adult females and all adult females who were pregnant in the past 12 months, excluding those less than 3 months pregnant who haven't received care	90% had care in first trimester
Non-Obese Weight	H10069F, H10069I & H10070	HP_OBESE	Number of people who are not obese	Adults	85% are not obese

```

/* HP_PRNTL--IF PREGNANT LAST YEAR, RECEIVED PRENATAL CARE IN 1ST TRIMESTER
*/
IF H10060 IN (1,2) THEN DO;                                /* Pregnant in last 12 months */
  IF H10062 = 4 THEN HP_PRNTL = 1;                        /* Yes */
  ELSE IF (H10061 = 1 AND H10062 = 1) THEN HP_PRNTL = .; /* <3 months pregnant now */
  ELSE IF H10062 IN (1,2,3) THEN HP_PRNTL = 2;          /* No */
END;

/* HP_MAMOG--FOR WOMEN AGE 40 AND OVER, HAD MAMMOGRAM W/IN PAST 2 YEARS
*/
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 40 THEN DO;
  IF H10059 IN (5, 4) THEN HP_MAMOG = 1;                /* Yes */
  ELSE IF H10059 IN (1, 2, 3) THEN HP_MAMOG = 2;        /* No */
END;

/* HP_MAM50--FOR WOMEN AGE 50 AND OVER, HAD MAMMOGRAM W/IN PAST 2 YEARS
*/
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 50 THEN DO;
  IF H10059 IN (5, 4) THEN HP_MAM50 = 1;                /* Yes */
  ELSE IF H10059 IN (1, 2, 3) THEN HP_MAM50 = 2;        /* No */
END;

/* HP_PAP--FOR ALL WOMEN, HAD PAP SMEAR IN LAST 3 YEARS */
IF XSEXA = 2 THEN DO;
  IF H10057 IN (4, 5) THEN HP_PAP = 1;                  /* Yes */
  ELSE IF H10057 IN (1, 2, 3) THEN HP_PAP = 2;          /* No */
END;

/* HP_BP--HAD BLOOD PRESSURE SCREENING IN LAST 2 YEARS AND KNOW RESULT */
IF H10048 IN (2,3) AND H10049 IN (1,2) THEN HP_BP = 1; /* Yes */
  ELSE IF H10048 = 1 THEN HP_BP = 2;                    /* No */
  ELSE IF H10048 < 0 OR H10049 < 0 THEN HP_BP = .;     /* Unknown */
  ELSE HP_BP = 2;                                        /* No */
END;

/* HP_FLU--FOR PERSON AGE 65 OR OVER, HAD FLU SHOT IN LAST 12 MONTHS */
IF INPUT(FIELDAGE,8.) >= 65 THEN DO;
  IF H10050 = 4 THEN HP_FLU = 1;                          /* Yes */
  ELSE IF H10050 IN (1, 2, 3) THEN HP_FLU = 2;           /* No */
END;

/* HP_SMOKE--ADVISED TO QUIT SMOKING IN PAST 12 MONTHS */
IF H10053 IN (2, 3, 4, 5) THEN HP_SMOKE = 1;            /* Yes */
  ELSE IF H10053 = 1 THEN HP_SMOKE = 2;                  /* No */

/* Add code for smoking and smoking cessation counseling according to the HEDIS */
/* definition. Smoking variable is HP_SMOKH and smoking cessation counseling */
/* is HP_CESS. */
/* 1/16/09 Changed HP_SMOKH to HP_SMKH2 and HP_CESH to HP_CESH2 to account for */
/* HYY054 variable not appearing in V4 questionnaire. */
IF H10051 IN (1,2) THEN DO;
  IF H10051=1 AND (H10052=3 OR H10052=4) THEN HP_SMKH2=1; /* Yes */
  ELSE IF H10051=2 OR H10052 > 0 THEN HP_SMKH2=2;         /* No */
END;

if hp_smkh2=1 & H10053>0 then do;
  if H10053>1 then hp_cess2=1; /* Yes */

```



```
KMILOPQY=1;  
END;  
ELSE IF H10005 = 5 THEN DO;  
    KMILOPQY=1;  
    KCIVOPQY=1;  
END;
```

E. WEIGHTING PROCEDURES

Quarterly and annual estimates based on the 2010 HCSDB must account for the survey's complex sample design and adjust for possible bias due to nonresponse. As part of sample selection, Mathematica constructed sampling weights (BWT) that reflect the differential selection probabilities used to sample beneficiaries across strata. With the level of nonresponse experienced in the HCSDB and the likelihood that respondents and nonrespondents will differ in terms of their responses to survey questions, the issue of nonresponse bias is potentially a serious one. In previous surveys prior to 2005 we compensated for potential nonresponse bias by adjusting for nonresponse independently within weighting classes defined by the stratification variables—enrollment status, beneficiary group, and geographic area. In other words, it was assumed that both response propensity and characteristics related to survey outcome variables were homogeneous within these weighting classes.

However, because the HCSDB sample is selected from the DEERS, a great deal is known about both respondents and nonrespondents. Consequently, a wide choice of variables is available for use as auxiliary variables in the nonresponse weighting adjustments. As described above, in previous surveys, the only auxiliary variables used in developing the nonresponse weighting adjustments were the stratification variables, a small subset of the available variables.

Therefore, beginning with the 2005 HCSDB we developed a new weighting adjustment procedure to incorporate more information about respondents and nonrespondents. The first stage in this process identified variables from the frame that were most related to whether or not a beneficiary responded to the survey. After initial screening of variables, the Chi-squared Automatic Interaction Detection (CHAID) (Biggs et al. 1991) technique was used for this purpose. Second, we incorporated the chosen auxiliary variables into a weighting class adjustment procedure using a response propensity model.

1. Constructing the Sampling Weight

The sampling weight was constructed on the basis of the sample design. In the 2010 HCSDB, stratified sampling was used to select the samples that would receive the questionnaire. Sampling was independently executed within strata defined by combinations of three domains: enrollment status groups; beneficiary groups; and geographic areas.

The sample was selected with differential probabilities of selection across strata. Sample sizes were driven by predetermined precision requirements. For further details of the 2010 adult sample design, see "Health Care Survey of DoD Beneficiaries: 2010 Adult Sampling Report (2009)." Our first step in constructing sampling weights was to ensure that they reflected these unequal sampling rates. These sampling weights can be viewed as the number of population elements each sampled beneficiary represents. The sampling weight was defined as the inverse of the beneficiary's selection probability:

$$W_s(h, i) = \frac{N_h}{n_h}$$

where:

$W_s(h,i)$ is the sampling weight for the i^{th} sampled beneficiary in stratum h ,

N_h is the total number of beneficiaries in stratum h , and

n_h is the number of sampled beneficiaries in stratum h .

The sum of the sampling weights over selections i , from stratum h equals the total population size of stratum h or N_h .

2. Adjustment for Total Nonresponse

Survey estimates obtained from respondent data only can be biased with respect to describing characteristics of the total population (Lessler and Kalsbeek 1992). The choice of an appropriate method for adjusting for potential nonresponse bias depends on the response mechanism that underlies the study population. We adjusted for nonresponse independently within classes, with the assumptions that both response and characteristics directly or indirectly related to survey variables are homogeneous within these classes. Two types of nonresponse were associated with the 2010 HCSDB:

- Unit or total nonresponse occurred when a sampled beneficiary did not respond to the survey questionnaire (e.g., refusals, no questionnaire returned, blank questionnaire returned, bad address).
- Item nonresponse occurred when a question that should have been answered was not answered (e.g., refusal to answer, no response).

Because item response rates in previous surveys were high, statistical imputation, a technique used to compensate for item nonresponse, was not used in the 2010 HCSDB. To account for unit or total nonresponse, we implemented a weighting class adjustment procedure where the weighting classes are formed from a response propensity model.

3. Weighting Class Adjustments

Weighting class adjustments were made by partitioning the sample into groups, called weighting classes, and then adjusting the weights of respondents within each class so that they sum to the weight total for nonrespondents and respondents from that class. Implicit in the weighting class adjustment is the assumption that—had the nonrespondents responded—their responses would have been distributed in the same way as the responses of the other respondents in their weighting class.

The 2010 HCSDB weighting was implemented by using a method that was instituted in 2005. This new method forms the weighting classes using the propensity scores from the propensity model.

Nonresponse adjustment factors for the 2010 HCSDB were calculated in two steps. First, we adjusted the sampling weights to account for sampled beneficiaries for whom eligibility status could not be determined. Sampled beneficiaries were then grouped as follows according to their response status d :

$d = 1$ Eligible — complete questionnaire returned (FNSTATUS = 11)

$d = 2$ Eligible — incomplete or no questionnaire returned (FNSTATUS = 12 or 20)

$d = 3$ Ineligible — deceased, incarcerated or permanently incapacitated beneficiary (FNSTATUS = 31)

$d = 4$ Eligibility unknown — no questionnaire or eligibility data (FNSTATUS = 41 or 42)

$d = 5$ Ineligible — ineligible at time of Altarum address update (FNSTATUS = 32)

Within weighting class c , the weights of the $d = 4$ nonrespondents with unknown eligibility were redistributed to the cases for which eligibility was known ($d = 1, 2, 3$), using an adjustment factor $A_{wc1}(c,d)$ that was defined to be zero for $d = 4$, one for $d = 5$, and defined as:

$$A_{wc1}(c,d) = \frac{\sum_{i \in S(c)} W_s(c,i)}{\sum_{i \in S(c)} I_1(i)W_s(c,i) + \sum_{i \in S(c)} I_2(i)W_s(c,i) + \sum_{i \in S(c)} I_3(i)W_s(c,i)} \text{ for } d = 1, 2, 3$$

where:

$A_{wc1}(c,d)$ is the eligibility-status adjustment factor for weighting class c and response status code d ,

$I_d(i)$ is the indicator function that has a value of 1 if sampled unit i has a response status code of d and value of 0 otherwise,

$S(c)$ is the set of sample members belonging to weighting class c , and

$W_s(c,i)$ is the sampling weight (BWT) for the i^{th} sample beneficiary from weighting class c before adjustment.

The adjustment $A_{wc1}(c,d)$ was then applied to the sampling weights to obtain the eligibility-status adjusted weight. Beneficiaries in weighting class c with response status code of d were assigned the eligibility-status adjusted weight:

$$W_{wc1}(c,d,i) = A_{wc1}(c,d) W_s(c,i) \text{ for } d = 1, 2, 3, 4, 5$$

Note that since $d = 5$ cases have an adjustment factor of one, they have an adjusted weight equal to the sampling weight. Moreover, note that since $d = 4$ cases have adjustment factors of zero; they also have adjusted weights of zero.

The next step in weighting was to adjust for incomplete or missing questionnaires from beneficiaries known to be eligible. For this adjustment, the weighting class method is again used. Within weighting class c the sample was again partitioned into groups according to the beneficiary's response status code d . Within weighting class c , the weights of the $d = 2$ nonresponding eligibles were redistributed to the responding eligibles $d = 1$, using an adjustment factor $A_{wc2}(c,d)$ that was defined to be zero for $d = 2, 4$. For Group 1 ($d = 1$), the questionnaire-completion adjustment or $A_{wc2}(c, 1)$ factor for class c was computed as:

$$A_{wc2}(c,1) = \frac{\sum_{i \in S(c)} I_1(i)W_{wc1}(c,i) + \sum_{i \in S(c)} I_2(i)W_{wc1}(c,i)}{\sum_{i \in S(c)} I_1(i)W_{wc1}(c,i)}$$

By definition, all $d = 3$ and $d = 5$ ineligible beneficiaries “respond,” so the $d = 3$ and $d = 5$ adjustment factor is 1, or $A_{wc2}(c,3) = A_{wc2}(c,5) = 1$. The questionnaire-completion adjusted weight

was calculated as the product of the questionnaire-completion adjustment $A_{wc2}(c,d)$ and the previous eligibility-status adjusted weight $W_{wc1}(c,d,i)$, or:

$$W_{wc2}(c,d,i) = A_2(c,d)W_{wc1}(c,d,i)$$

As a result of this step, all nonrespondents ($d = 2, 4$) had questionnaire-completion adjusted weights of zero, while the weight for ineligible cases ($d = 3, 5$) remained unchanged, or $W_{wc2}(c,3,i) = W_{wc1}(c,3,i)$ and $W_{wc2}(c,5,i) = W_{wc1}(c,5,i)$.

4. Response Propensity Model

It is common practice to use weighting adjustments to compensate for unit nonresponse in sample surveys. There are numerous methods developed to make these adjustments (Kalton and Maligalig 1991; Holt and Smith 1979; Oh and Scheuren 1983; Little and Vartivarian 2003; Vartivarian and Little 2003). Moreover, a number of studies have evaluated multiple weighting methods to adjust for nonresponse. Carlson and Williams (2001) found nearly identical results with respect to the design effects and the weighted estimates for two weighting approaches: 1) weighting classes using the design features (strata and sampling units), and 2) propensity models containing numerous variables identified as predictors of response. They conjectured that the propensity model approach might perform better for estimates in key geographic subdomains because there would be many fewer weighting cells than for the national estimates. Rizzo et al. (1994) investigated several alternative methods for panel nonresponse in the Survey of Income and Program Participation (SIPP), including nonresponse adjustment cells, logistic regression, CHAID methods, and generalized raking methods. They found a number of variables related to panel nonresponse that are not employed in the standard SIPP nonresponse adjustment cells methodology. These variables were used in the alternative weighting methods and were found to result in similar weights regardless of method. Therefore, Rizzo et al conclude that the choice of model variables is more important than the weighting methodology.

a. Predictors of Response Propensity

The first step in developing nonresponse adjustments is deciding which of the large number of variables available from the HCSDB sample frame would be best to use in the adjustment procedures. We do this by evaluating each variable and its relationship to response. Segmentation analysis using the CHAID software was used to allow for a model-building process that focuses on segments showing different response propensities.¹ This analysis avoids the problem of examining "all possible interactions" that is typical of regression modeling. The unweighted segmentation algorithm split the sample into subgroups based on response rates. The splitting process continued until either no other predictors were found or the segment size fell below a minimum size of 50. For ease of interpretation, we also limited the splitting process to three levels. We ran the CHAID analysis twice, once to predict eligibility determination and again to predict survey completion among eligible beneficiaries

b. Response Propensity Weighting Classes

The nonresponse adjustments involved developing weighting classes using sample design characteristics and the response propensity model developed in the modeling stage. The usual HCSDB approach computes the response weight adjustment cells based on fully observed

¹ Using as a criterion the significance of a chi-squared test, CHAID evaluates all of the values of a potential predictor variable. It merges values that are judged to be statistically homogeneous (similar) with respect to response and maintains all other values that are heterogeneous (dissimilar). It then selects the best predictor variable to form the first branch in the decision tree, such that each node is made of a group of homogeneous values of response. This process continues recursively until the tree is fully grown.

variables from the sample frame. However, in order to avoid empty or sparsely populated cells, we limited our classification to the stratification variables, catchment area, enrollment, and beneficiary group, and collapsed these cells as necessary.

The alternative approach we used to reduce the number of cells was to stratify based on response propensity. The method used a model of the relationship between a set of beneficiary characteristics and a response outcome. We used logistic regression to model this relationship because response outcome is dichotomous: beneficiaries either respond or they do not. If the characteristics in the model predict response well and if the characteristics are correlated with the substantive variables of the survey, then the model-based adjustment factors applied to the sampling weights greatly reduce the potential for nonresponse bias. Like the previous weighting class adjustment method, we make two separate weighting adjustments to attempt to compensate for nonresponse: an eligibility determination adjustment and a completion adjustment.

The overall probability of having a known eligibility status is estimated with a logistic regression model. The probability that sample beneficiary i has a known eligibility status is:

$$\begin{aligned}\hat{\lambda}_i &= P[E_i = 1 | X_i, \hat{\beta}] \\ &= [1 + \exp(-X_i \hat{\beta})]^{-1}\end{aligned}$$

where

$$E_i = \begin{cases} 1 & \text{if sample beneficiary } i \text{ has eligibility status determined} \\ 0 & \text{otherwise} \end{cases}$$

and X_i is a vector of HCSDB response predictors (main effects and interaction terms) and $\hat{\beta}$ are the estimated regression coefficients.

To determine the best set of response predictors we fit models using unweighted stepwise, backward, and forward logistic regression procedures in SAS. We developed a model for Continental U.S. (CONUS) and Outside of Continental U.S. (OCONUS) separately and included as response predictors an indicator variable for each TNEC region. Besides TNEC region, an indicator of whether a beneficiary is in a catchment area or not was added in the model. In the full model, we included all nine variables (TNEC region, age, beneficiary group, PCM, personnel category, rank, sex, service, and an indicator for being in a catchment area) and interactions identified by the CHAID analysis as response predictors. We re-ran the three resulting unweighted models using weights and the sample design characteristics in SUDAAN. We estimated the coefficients using a weighted logistic regression procedure in SUDAAN, which incorporates the stratified design in estimating standard errors for the coefficients. We selected the model with the best Hosmer and Lemeshow (H-L) goodness-of-fit test from both SAS and SUDAAN since all models have similar concordance-discordance rates.

For each eligibility determination model, we ordered the list of response propensity scores and then divided them into groups of equal size. Ten weighting classes were formed from the deciles of the propensity score for CONUS. For OCONUS we formed five classes using the quintiles of the propensity scores.

For the completion adjustment stage, we formed the weighting classes using the results from the CHAID trees; the number of weighting classes was determined by the number of the terminal nodes in the CHAID trees. Because we observed little variation in the questionnaire-completion adjustment stage, the modeling was not necessary, and instead the weighting classes were formed directly from the CHAID trees.

In addition, we poststratified the nonresponse-adjusted weights to the frame totals to obtain specific domain weighted totals equal to population totals. The poststrata were defined by stratification variables—TNEC region, catchment area, and enrollment status, and were collapsed to form poststrata of sufficient size. Due to the possibly insufficient sample size constraint within each TNEC region, we stratified by catchment area only for those enrolled with military primary care manager. The poststratification adjustment factor for the h^{th} poststratum is defined as:

$$A_h^{PS} = \frac{N_h}{\sum_{i \in h} W_i^C}$$

where W_i^C is the nonresponse-adjusted weights, and N_h is the total number of beneficiaries in the DEERS frame associated with the h^{th} poststratum. We calculated the poststratified adjusted weight for the i^{th} sample record from the h^{th} poststratum by the following:

$$W_{hi}^{PS} = A_h^{PS} \times W_i^C$$

Therefore, when summed over all respondents in poststratum h , the poststratified weights now total N_h .

Lastly, we evaluated the weights and trimmed some extreme weights to reduce excessive effect of extreme weights to variance inflation. Whenever some weights were trimmed, we re-post stratified the weights to produce the final survey weights.

5. Calculation of Combined Annual Weights

Calculation of Combined Annual Weights

Lastly, we constructed a dataset combining the four consecutive quarterly data files. Because there were a total of 1,937 late respondents who were not included in the Quarters I–III 2010 files, the first three quarters were re-weighted before they were merged into the combined annual dataset. The new Quarters I–III datasets contain the responses of respondents who “trickled” in past the deadline for the survey. After reweighting the Quarters I–III datasets, the Quarters I–III datasets and the Quarter IV dataset were merged to form a combined annual dataset with data for all four quarters.

Because the combined annual dataset sample sizes are sufficiently large to provide statistically reliable estimates, users will be able to calculate survey estimates for subdomains, such as catchment areas. Construction of an appropriate annual weight will allow users to consider the combined data as the data from a single survey. Quarterly weights are still included so that users may continue to calculate quarterly estimates and retain the ability to combine any sequential four quarters into a combined data set.

The method used for combining the four quarters of data and calculating combined estimates assumes that the variance in estimates from one quarter to the next is merely due to sampling variation. That is, combined estimates can be calculated from the four independent samples by averaging the estimates for the four quarters. These combined estimates will, in fact, be more precise than the quarterly estimates because they average out the variation across quarters (For a further discussion, see Friedman, et al. 2002).

We calculated the final survey weight for each quarter within the combined dataset. Without the loss of generality, let us denote the current quarter by Q4. Then, the combined dataset would include the four quarterly datasets: Q1, Q2, Q3, and Q4. Let us denote quarterly final survey weights by WQ1, WQ2, WQ3, and WQ4. To retain the sum of the weights from the combined data

as the population count, we average the population over the four quarters, by rescaling each quarterly survey weight as follows in order to develop a combined annual weight:

$$(1) \quad WCOM = q_i \times WQi$$

where q_i is between 0 and 1 with the constraint $q_1 + q_2 + q_3 + q_4 = 1$. We can make the choice of the appropriate value for each of the q_i 's based on various assumptions. We have decided that each quarterly contribution to the annual weight should be equal and therefore the value of each q_i is as follows:

$$q_1 = 0.25; q_2 = 0.25; q_3 = 0.25; q_4 = 0.25$$

Then, the weight for the combined annual data will be $WCOM$ in (1).

The final data file retains the quarterly sampling stratum variables and quarterly weight as calculated using the response propensity (FWRWT) and the combined weights (CFWT). The file also contains an indicator variable for the quarters. From this combined dataset, one can calculate both combined data and revised quarterly estimates.

6. Calculation of Quarterly Jackknife Replicate Weights

Calculation of Quarterly Jackknife Replicate Weights

Calculation of variance estimates in the HCSDB requires a design-based variance estimation technique that is available in most statistical software packages for analysis from a complex survey data, such as WesVarPC® (Brick et al. 1996), SUDAAN®, SAS/STAT® version 8 or higher, and STATA®. This technique requires sample design information, including the sampling weight and stratification information. As an alternative, a replication technique such as the Jackknife method can be used to calculate variance estimates. In the HCSDB, a series of jackknife replicate weights are calculated and attached to each beneficiary record in the database. In jackknife replication, deleting selected cases from the full sample generates the prescribed number of replicates. The HCSDB replicate weights were constructed as follows.

First, the entire file of sampled beneficiaries is sorted in sample selection order in which the stratification variables are used in the sorting process. Next, 60 mutually exclusive and exhaustive systematic subsamples of the full sample are identified in the sorted file. A jackknife replicate is then obtained by dropping one subsample from the full sample. As each subsample is dropped in turn, consequently 60 sets of jackknife replicates are produced. The weighting process after the modeling as applied to the full sample is then applied separately to each of the jackknife replicates to produce a set of replicate weights for each record. The propensity score modeling was skipped. Instead the weighting cells from the propensity scores from the full sample weight were adopted in the replicate weights construction. Then, a series of jackknife replicate weights (FWRWT1-FWRWT60) is attached to the final data in order to construct jackknife replication variance estimates. These replicate weights should be used to estimate variances of quarterly estimates.

7. Calculation of Annual Jackknife Replicates

Calculation of Annual Jackknife Replicates

Since 60 quarterly replicate weights are available in each quarter, 240 annual replicate weights (CFWT1 – CFWT240) were constructed as follows:

Figure 1: Construction of Annual replicate weights based on the quarterly replicate weights

1	5		
6	2	6	
7		3	7
8			4

- 1 – Q1 Replicate Weights
- 2 – Q2 Replicate Weights
- 3 – Q3 Replicate Weights
- 4 – Q4 Replicate Weights
- 5 – Q1 Final weights
- 6 – Q2 Final weights
- 7 – Q3 Final weights
- 8 – Q4 Final weights

Each quarterly replicate weight was put into the data set as a form of block diagonal (1, 2, 3, 4), and the quarterly final weights were put into the dataset for off-diagonal (5, 6, 7, 8). This construction was based on the assumption that each quarterly sample was independent. The use of the quarterly final weights as the replicate weights for off-diagonal units in the dataset does not introduce variability into the variance. In fact, the replicate estimates from the off-diagonal are equal to the full sample estimate, because the replicate weights on the off-diagonal are same as the quarterly final weight. Thus, the values of variance factor $(\hat{\theta}_{hi} - \hat{\theta})^2$, i.e., the difference between the estimates calculated from the replicate r and that calculated on the basis of full sample, is zero for replicates with off-diagonal units only.

The general formula for the jackknife variance estimator in SUDAAN (RTI 2002) can be expressed as:

$$v_{Jack}(\hat{\theta}) = \sum_h \frac{N_h - D_h}{D_h R_h} \sum_i (\hat{\theta}_{hi} - \hat{\theta})^2$$

where

- N_h is the number of PSUs or clusters within the stratum h ,
- D_h is the number of PSUs or clusters deleted in creating the replicate,
- R_h is the number of replicates selected,
- $\hat{\theta}_{hi}$ is the estimate of the parameter θ from the i -th replicate of the h -th stratum,
- $\hat{\theta}$ is the estimate based on the entire sample.

Analysis

This chapter explains how the HCSDB variables were processed during the analysis phase of the project. It covers the procedure for calculating response rates, developing dependent and independent variables for the analysis and estimating the variance of the statistics. The “Health Care Survey of DoD Beneficiaries: Annual Report” is described briefly along with an outline of the steps involved in creating charts for the reports.

A. RESPONSE RATES

In this section, we present the procedures for response rate calculations along with a brief analysis of response rates for domains of interest. Response rates for the 2010 HCSDB were calculated in the same way since 2006. The procedure is based on the guidelines established by the Council of American Survey Research Organizations (CASRO 1982) for defining a response rate.

1. Definition of Response Rates

In calculating response rates and related measures, we considered two different rates: *unweighted* and *weighted*. The unweighted version of the response rate represents the counted proportion of respondents among all sampled units, and the weighted version indicates the estimated proportion of respondents among all population units. When sampling rates across all strata are equal, these two approaches give the same result. However, the 2010 HCSDB used different sampling rates across strata. So, it is useful to show both “unweighted” and “weighted” response rates. We calculated these two response rates in the same way. As presented in Chapter 2, all sampled beneficiaries were completely classified into these four main (seven detailed) groups:

- Group 1 (G1-1): eligible and complete questionnaire returned;
- Group 1 (G1-2): eligible and incomplete questionnaire returned;
- Group 2: eligible and questionnaire not returned;
- Group 3 (G3-1): returned ineligible
- Group 3 (G3-2): ineligible at time of Altarum address update
- Group 4 (G4-1): eligibility unknown and locatable; and
- Group 4 (G4-2): eligibility unknown and unlocatable.

The unweighted counts reflect the number of sampled cases (n_i for Group i , where $i=1,2,3,4$), and the weighted counts reflect the estimated population size² (\hat{N}_i for Group i , where $i=1,2,3,4$) for the four main response categories.

These weighted and unweighted counts were also calculated for the subgroups G1-1, G1-2, G3-1, G4-1, and G4-2, where we denote the unweighted counts by $n_{1,1}$, $n_{1,2}$, $n_{3,1}$, $n_{4,1}$, and $n_{4,2}$, and the

² The weighted sum of sampled units can be regarded as an estimated population size. The base weight (BWT) was used in calculating weighted counts, where BWT is the inverse of selection probability.

weighted counts by $\hat{N}_{1,1}$, $\hat{N}_{1,2}$, $\hat{N}_{3,1}$, $\hat{N}_{4,1}$, and $\hat{N}_{4,2}$. With these values, we calculated response rates as follows.

Response rates can be partitioned into two measures: the location rate and the completion rate. To calculate the location rate, we first estimated the number of Group 4 “located” beneficiaries who were expected to be eligible for the survey:

(1)

$$l = \left(\frac{n_1 + n_2}{n_1 + n_2 + n_{3,1}} \right) n_{4,1} \quad \text{and} \quad l_w = \left(\frac{\hat{N}_1 + \hat{N}_2}{\hat{N}_1 + \hat{N}_2 + \hat{N}_{3,1}} \right) \hat{N}_{4,1}$$

where l and l_w are unweighted and weighted estimates of the number of “located” beneficiaries among Group 4. Then, the unweighted and weighted “location rates” are defined by:

(2)

$$LR = \frac{n_1 + n_2 + l}{n_1 + n_2 + n_4 \left(\frac{n_1 + n_2}{n_1 + n_2 + n_{3,1}} \right)} \quad \text{and} \quad LR_w = \frac{\hat{N}_1 + \hat{N}_2 + l_w}{\hat{N}_1 + \hat{N}_2 + \hat{N}_4 \left(\frac{\hat{N}_1 + \hat{N}_2}{\hat{N}_1 + \hat{N}_2 + \hat{N}_{3,1}} \right)}$$

And the corresponding unweighted and weighted “completion rates” are defined by:

(3)

$$CR = \frac{n_{1,1}}{n_1 + n_2 + l} \quad \text{and} \quad CR_w = \frac{\hat{N}_{1,1}}{\hat{N}_1 + \hat{N}_2 + l_w}$$

The final response rates in Equation (4) can be obtained by multiplying the location rate in Equation (2) by the completion rate in Equation (3).

(4)

$$FRR = LR \times CR \quad \text{and} \quad FRR_w = LR_w \times CR_w$$

In the definitions in Equations (1) through (4), the subscript “w” indicates that all calculations involve weighted counts. The method used to calculate response rates is consistent with the CASRO guidelines.

2. Reporting

We examined response rates to identify patterns across different domains or characteristics. While analysts prefer weighted rates that reflect the estimated proportion of respondents among all population beneficiaries, operational staff often is interested in getting unweighted measures. All tables include unweighted and weighted values under columns headed “RR” and “RR_w”, respectively. In the following, we focus on discussing unweighted response rates for domains of interest.

Table 3.1 includes overall response rates for the 2010 HCSDDB for Quarters I-IV, individual and combined. It also contains response rates by beneficiary groups, and by enrollment status:

- Overall: The overall unweighted response rate for the combined 2010 Adult HCSDDB was 25.5 percent (which is found in Table 3.1 in the row of "Overall"). This rate is slightly higher than 25.2 percent rate achieved in the combined 2009 Adult HCSDDB.
- Beneficiary group and enrollment status: All response rates calculated by beneficiary group and enrollment status show similar patterns to the 2009 survey, i.e., active duty beneficiaries had the lowest response rates and beneficiaries 65 years and older had the highest rate.³
- The response rates for the first three quarters include late respondents (respondents whose survey "trickled-in" after the deadline).

TABLE 3.1

RESPONSE RATES OVERALL AND BY ENROLLEE BENEFICIARY GROUP: QUARTERS I-IV, 2010

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR (%)	RR _w (%)	RR (%)	RR _w (%)	RR (%)	RR _w (%)	RR (%)	RR _w (%)	RR (%)	RR _w (%)
Overall	23.5	41.7	26.4	43.9	27.7	45.5	24.3	41.0	25.5	43.0
Active Duty	16.8	15.4	21.2	19.1	21.9	19.7	19.9	17.7	20.0	18.0
Active Duty fam,Prime,civ PCM	19.8	18.7	22.1	21.5	24.3	24.9	18.6	19.0	21.1	21.1
Active Duty fam,Prime,mil PCM	18.8	18.7	20.1	20.0	23.1	22.7	19.2	19.0	20.3	20.1
Active Duty fam,non-enrollee	13.5	14.4	14.8	15.9	16.3	17.5	14.0	15.5	14.7	15.8
Retired,<65,civ PCM	45.2	47.4	52.4	52.3	50.3	52.1	43.4	46.2	47.8	49.5
Retired,<65,mil PCM	45.0	45.3	48.8	48.9	48.9	49.4	42.9	44.2	46.4	46.9
Retired,<65,non-enrollee	42.7	45.8	42.3	45.2	43.7	47.2	38.8	41.9	41.9	45.0
Retired,65+,enrollee	73.5	73.3	79.1	79.1	77.5	77.3	76.4	77.1	76.5	76.6
Retired,65+,non-enrollee	73.4	73.5	75.1	74.9	77.4	77.4	71.5	71.4	74.4	74.3
TRICARE Reserve Select	30.0	30.0	27.9	27.9	34.7	34.7	23.4	23.4	29.0	28.9

RR = Weighted

RR_w = Unweighted

Appendix D (Response Rate Tables) contains tables showing unweighted and weighted response rates for all four quarters and the combined annual dataset. We summarize results about unweighted response rates for selected domains as follows:

- TNEX Regions: Combined response rates across regions range from 18.3 percent for Overseas to 27.2 percent for North (Table D.10).
- Sex: Combined response rate for men is 24.6 percent as compared to 26.5 percent for women. (Table D.4).
- CONUS: Combined response rate for CONUS is 26.5 percent as compared to 18.0 percent for Western Pacific. (Table D.3).
- Catchment areas: Combined response rates across catchment areas range from 11.8 percent for Seoul to 38.5 percent for Tricare Outpat-Chula Vista. (Table D.7).

³ However, response patterns vary considerably across beneficiary and enrollment groups. The relatively low level of response for active duty persons and their family members could be due to frequent relocations and our inability to receive new addresses in a timely manner.

- Beneficiary groups by sex: Women respond at a higher rate than men for both active duty and active duty family members, 23.3 percent versus 19.4 percent and 19.3 percent versus 11.8 percent, respectively. The opposite pattern emerges for retirees, survivors and family members 65 and older, 71.6 percent for women versus 77.9 percent for men. The response rates for retirees less than 65 are 46.1 for men vs 43.8 for women. (Table D.12).
- Beneficiary group by service affiliation (Army, Navy, Air Force, Marine Corps, Coast Guard, Other/Unknown): Among service affiliations, the smallest combined response rate comes from active duty in the Marine Corps with 13.7 percent and the largest from beneficiaries over 65 from other/unknown with 85.7 percent (Table D.13).

B. VARIANCE ESTIMATION

Due to the complex sample design, variance estimation for the 2010 HCSDB is not simple, and may be most easily achieved using one of two methods. The first, the Taylor series linearization via SUDAAN (Shah et al. 1996) or SAS/STAT version 8 or higher, is a direct variance estimation method, which may be used to calculate the standard errors (the square root of the variance) of estimates. For the 2010 HCSDB analyses, we used the Taylor series linearization method. For analysts who prefer a replication method of variance estimation, replicate weights for jackknife replication are provided in the public use file. This section details the two approaches to calculating variance estimates of the characteristics of interest associated with the 2010 HCSDB.

1. Taylor Series Linearization

Mathematica uses Taylor series linearization to produce standard errors for the estimates from the 2010 HCSDB. For most sample designs, including the 2010 HCSDB, design-based variance estimates for linear estimators of totals and means can be obtained with explicit formulas. Estimators for nonlinear parameters, such as ratios, do not have exact expressions for the variance. The Taylor series linearization method approximates the variance of a nonlinear estimator with the variances of the linear terms from the Taylor series expansion for the estimator (Woodruff 1971). To calculate variance estimates based on the Taylor series linearization method, given HCSDB's stratified sampling design, we need to identify stratum as well as the final analysis weight for each data record. We included these variables on the final database. For variance estimation, we use the general-purpose statistical software package SUDAAN to produce Taylor series variance estimates. SUDAAN is the most widely used of the publicly available software packages based on the Taylor series linearization method. In SUDAAN, the user specifies the sample design and includes the stratum variables and the analysis weight for each record. Unlike WesVarPC, SUDAAN allows for unlimited strata, so stratification effects can be incorporated in calculating standard errors.

2. Jackknife Replication

Resampling methods are often used in estimating the variance for surveys with complex designs. In resampling, the sample is treated as if it was a population, and many smaller samples are drawn from the original sample (Lohr 1999, pages 298-308). The subsamples are then used to compute the variance. Replication methods have been recommended for surveys in which the sample design is complex, nonresponse adjustments are needed, and statistics of interest are complicated. In such surveys, the usual design-based estimation formula is extremely difficult or impossible to develop (see, for example, Wolter 1985, pages 317-318). Jackknife replicate weights can be used to calculate the standard errors of estimates. An estimate of a characteristic of interest is calculated (with the same formula as the full sample estimate) using each set of replicate weights; these replicate estimates are used to derive the variance of the full sample statistic.

The jackknife variance of the full sample statistic of interest is estimated from the variability among the replicated estimates. When the replicate weights are produced according to the above procedure, jackknife replicate standard errors can be produced using custom written software or publicly available statistical software. For instance, WesVarPC® (Brick et al. 1996) is a popular software package that calculates standard errors based on replication methods. It produces standard errors for functions of survey estimates such as differences and ratios as well as simple estimates such as means, proportions, and totals. Additional details about the jackknife replication approach are given in Wolter (1985). Like other replication methods, the jackknife variance estimation can be easily implemented for any form of estimate without further algebraic work.

C. SIGNIFICANCE TESTS

In certain charts in the adult report cards and the “Health Care Survey of DoD Beneficiaries: Annual Report”, statistical testing is done to show which columns of the chart (values of the independent variable) are statistically different from all CONUS regions as a whole. Positional arrows show if a region is statistically better than the CONUS regions (an arrow pointing up) or statistically worse than the CONUS regions (an arrow pointing down); if there is no arrow, there is no statistical difference.

The null hypothesis for this significance test is that the mean for the column is essentially equal with the CONUS mean, and the alternative is that the mean for the column is different from the CONUS mean. That is, we are testing:

$$H_0: \mu_1 = \mu_2 \quad \text{vs.} \quad H_a: \mu_1 \neq \mu_2$$

For instance, μ_1 might represent the characteristic of interest for the active duty group while μ_2 might represent the same characteristic for all CONUS regions.

With large sample sizes, the estimator $\overline{y_1 - y_2}$ is approximately distributed as a normal distribution with mean zero and variance $\sigma_{y_1 - y_2}^2$ under the null hypothesis. In testing the hypothesis, a test statistic T is thus calculated as:

$$T = \frac{\overline{y_1 - y_2}}{\hat{\sigma}_{y_1 - y_2}}$$

With $\alpha = 0.05$, the null hypothesis should be rejected if $|T| > 1.96$. The denominator of T, the standard error of $\overline{y_1 - y_2}$, can be calculated as the square root of the variance estimator

$$\hat{\sigma}_{y_1 - y_2}^2:$$

$$\hat{\sigma}_{y_1 - y_2}^2 = \text{var}(\overline{y_1}) + \text{var}(\overline{y_2}) - 2 \text{cov}(\overline{y_1}, \overline{y_2}).$$

If $\overline{y_1}$ and $\overline{y_2}$ are independent, then the covariance term equals zero and thus the variance estimator can be easily obtained as the sum of two individual variance estimators. However, there are some cases in which the condition of independence does not hold. For example, active duty MTF group is not independent with the CONUS regions because these two domains share active duty group within the CONUS regions. So the covariance term should be incorporated in calculating the variance estimator of the estimator of the difference. With suitable algebra and program modification, these covariance terms were calculated for all such cases. All detailed programs are included in Appendix G.

D. DEMOGRAPHIC ADJUSTMENTS

All scores in the TRICARE Beneficiary Reports are adjusted for patient characteristics affecting their scores. Scores can be adjusted for a wide range of socioeconomic and demographic variables.

The purpose of risk adjustment is to make comparisons of outcomes, either internally or to external benchmarks, that control for characteristics beyond the health care provider's control. Based on previous work with satisfaction scales derived from Consumer Assessment of Healthcare Providers and Systems (CAHPS) Health Plan Survey, it appears that satisfaction increases with age and decreases with poor health across social classes and insurance types. Besides, controlling for these factors, the methodology used does the following:

- Permits risk-adjusted comparisons among regions and catchment areas within and across beneficiary and enrollment groups
- Permits testing the hypothesis that the difference in risk-adjusted scores between a region or catchment area and a benchmark is due to chance
- Is appropriate for CAHPS composites and global satisfaction ratings.

The methodology used is an adaptation of that found in CAHPS 2.0 Survey and Reporting Kit (DHHS, 1999).

The model used for this adjustment is:

$$Y_{ijkl} = \beta_{1l}A_{1l} + \beta_{2l}A_{2l} + \dots + \beta_{5l}A_{5l} + \beta_{6l}P_l + \varepsilon_{ijkl},$$

where Y_{ijkl} is a dependent variable, β_{ql} 's are parameters to be estimated, A_{ql} 's are age dummy variables ($A_{ql} = 1$ if the beneficiary is in age group q , and 0 otherwise; A_1 = age 18-24, A_2 = age 25-34, A_3 = age 35-44, A_4 = age 45-54, A_5 = age 55-64), P_l is health status. The subscripts i, j, k and l refer to the service/region, MTF, beneficiary, and beneficiary's enrollment group, respectively.

Given 24 region and service combinations and $J+1$ catchment areas, the specifications that we use are:

$$\varepsilon_{ijkl} = \delta_{0l} + \delta_{1l}R_{1l} + \delta_{2l}R_{2l} + \dots + \delta_{24l}R_{24l} + w_{ijkl},$$

where R_i 's are service/region dummy variables ($R_i = 1$ if the beneficiary is in service/region i and beneficiary group l , and 0 otherwise), and

$$\varepsilon_{ijkl} = \gamma_{0l} + \gamma_{1l}H_{1l} + \gamma_{2l}H_{2l} + \dots + \gamma_{Jl}H_{Jl} + w_{ijkl},$$

where H_j 's are catchment area dummy variables ($H_j = 1$ if the beneficiary is in catchment area j and beneficiary group l , and 0 otherwise). The first specification is used when catchment area values are not reported, and the second when catchment areas are reported.

The methods for calculating demographically adjusted values and testing hypotheses of differences in demographically adjusted scores among geographic areas vary with the way ε_{ijkl} is defined. For specification 1, the adjusted mean of the dependent variable Y for region i can be obtained as:

$$\bar{y}_i = \hat{\delta}_0 + \hat{\delta}_i + \hat{\beta}_1\hat{A}_1 + \hat{\beta}_2\hat{A}_2 + \dots + \hat{\beta}_5\hat{A}_5 + \hat{\beta}_6\hat{P},$$

where $\hat{\beta}_i$'s are estimated model parameters, \hat{A}_i 's are weighted proportions of age group i among the total U.S. population, and \hat{P} is the weighted MHS mean of the variable P . For beneficiary group l , the adjusted regional value is:

$$\overline{y_{il}} = \hat{\delta}_{0l} + \hat{\delta}_{il} + \hat{\beta}_{1l}\hat{A}_1 + \hat{\beta}_{2l}\hat{A}_{2l} + \dots + \hat{\beta}_{5l}\hat{A}_{5l} + \hat{\beta}_{6l}\hat{P}_l,$$

where \hat{A}_q 's are weighted proportions of age group q in the MHS.

For specification 2, an adjusted catchment area value can be calculated as:

$$\overline{y_{ijl}} = \hat{\gamma}_{0l} + \hat{\gamma}_{ijl} + \hat{\beta}_{1l}\hat{A}_{1l} + \hat{\beta}_{2l}\hat{A}_{2l} + \dots + \hat{\beta}_{5l}\hat{A}_{5l} + \hat{\beta}_{6l}\hat{P}_l,$$

while the regional value is calculated using specification 1.

Standard errors then can be estimated as the standard error of residuals for catchment areas or regions using SUDAAN. These standard errors can be used in hypothesis tests comparing adjusted values to other adjusted values or to external benchmarks. Composite values are calculated as averages of regional or catchment area adjusted values for questions making up the composites, in which each question is equally weighted.

Benchmarks can also be adjusted for age and health status as are scores taken from survey responses. If the benchmark data set contains age and health status information, we fit a model of the form

$$y = \alpha + \beta_1 A_1 + \beta_2 A_2 + \dots + \beta_5 A_5 + \beta_6 P$$

where the A's are age groups and P is health status. Then the adjusted benchmark is

$$\hat{y}_l = \hat{\alpha} + \hat{\beta}_1 \bar{A}_{1l} + \hat{\beta}_2 \bar{A}_{2l} + \dots + \hat{\beta}_5 \bar{A}_{5l} + \hat{\beta}_6 \bar{P}_l$$

using the mean values of A and P for beneficiary group l .

The adjusted values for that beneficiary group can then be compared to a benchmark appropriate for their age distribution and health status.

In some cases, it may be desirable for a single benchmark to be presented in comparison to many beneficiary groups. We accomplish this by recentering scores for beneficiary groups. In the Beneficiary Reports, described below, the benchmark presented is the all-users beneficiary group, but scores for many other beneficiary groups are also presented. Each score and benchmark is calculated for the appropriate beneficiary group. Then a recentering factor for each beneficiary group is calculated as the difference in adjusted benchmarks between a beneficiary group and the all-users group. For the all-users group, that recentering factor is zero. The recentering factor is added to the score for each region or catchment area for that beneficiary group. Thus beneficiary groups can also be compared controlling for age and health status and can be compared to the same benchmark.

E. CALCULATING SCORES

Beneficiary Reports (see below) include four types of scores: CAHPS composites, ratings, a preventive care composite, and a healthy behaviors composite.

1. Composites and Ratings

The preventive care composite is calculated as $P_i = \sum w_i r_i$, where w is the proportion of the eligible population for whom the preventive care measure is relevant and r is the proportion of that eligible group receiving preventive care.

CAHPS composites are calculated as

$$S_i = (1/n_i) \sum (q_j/k_j),$$

where n_i is the number of questions in the composite i , q_j is the number giving a favorable response to question j in the composite i , and k_j is the number responding to that question j . CAHPS ratings are calculated as

$$S_i = q_i/k_i,$$

where q_i is the number giving a favorable response and k_i is the (weighted) number responding to rating i . All scores are adjusted for age and health status (see above).

F. TESTS FOR TREND

In the Beneficiary Reports (see below), we use linear regression to estimate a quarterly rate of change and test it for statistical significance. Our estimate for the rate of change, T , is

$$T = \frac{\sum_{t=1}^4 w_t (S_t - \bar{S})(t - \bar{t})}{\sum_{t=1}^4 w_t (t - \bar{t})^2},$$

where t is the quarter, S_t is the score and w_t is the total weight of quarter t 's observations. In order to test the hypothesis that trend is zero, we use the standard error for the trend coefficient

$$\sigma = \frac{\sqrt{\sum_{t=1}^4 w_t^2 \sigma_t^2}}{\sum_{t=1}^4 w_t}, \text{ and}$$

$$S = \sigma / \sqrt{\sum_{t=1}^4 w_t (t - \bar{t})^2 / \sum_{t=1}^4 w_t}$$

where σ_t is the standard error for quarter t . The hypothesis test is based on a t-test of the hypothesis that $T=0$, where n is the total number of observations for all 4 quarters $p = \text{Prob}(\text{abs}(T/S) > 0, n)$.

G. DEPENDENT AND INDEPENDENT VARIABLES

Dependent, or outcome, variables represent the research questions the survey is designed to answer. For example, beneficiary satisfaction and access are dependent variables in this analysis. The research questions are listed in Chapter 1. Generally, dependent variables form the rows of the tables and the vertical axis of the charts.

Independent, or explanatory, variables do not directly represent research questions, but they may help to explain the differences in one or more of the outcome variables. They may also be

correlated with one or more dependent variables. For example, a beneficiary's satisfaction with health care may be correlated with their age and/or TRICARE Prime enrollment status. Each table is designed to help determine whether a particular dependent variable is correlated with a particular independent variable. Independent variables form the columns of the tables and the horizontal axis of the charts.

In analyzing the relationship between dependent and independent variables, Mathematica produced charts and tables that are found in the reports described below. Beginning with the HCSDDB in a SAS format, Mathematica programmers developed SAS procedures such as PROC FREQ and PROC MEANS and SAS-callable SUDAAN procedures such as PROC DESCRIPT and PROC CROSSTAB to generate the relevant statistics (e.g., per cents, means, and standard errors). These statistical values were moved directly from SAS programs to Excel tables using a dynamic data exchange to populate the cells of the tables. Graphical displays were generated from table values wherever feasible.

H. REPORTS

This section lists the three types of reports produced and states the main purpose of each report: 2010 TRICARE Beneficiary Reports, the TRICARE Consumer Watch, and the "Health Care Survey of DoD Beneficiaries: Annual Report." The 2010 TRICARE Beneficiary Reports and the TRICARE Consumer Watch are presented on a quarterly basis and display results from the most recent quarter. The "Health Care Survey of DoD Beneficiaries: Annual Report" is produced annually and describes findings from all four quarters of survey data.

The Beneficiary Reports were modified in 2009 because of the change from CAHPS 3.0 to CAHPS 4.0 questions. The current Beneficiary Reports contain results from both questionnaires when comparing trends of previous years. Methods are described in Appendix K.

1. 2010 TRICARE Beneficiary Reports

a. Purpose

The purpose of the Beneficiary Reports is to provide TRICARE Regional offices, services and MTF commanders with a comprehensive description of TRICARE beneficiaries' satisfaction with care, access to care, and use of preventive care, in comparison with other regions and catchment areas, and with relevant national benchmarks. MHS scores are adjusted using demographic characteristics. Both quarterly and annual Beneficiary Reports are produced. The quarterly reports present results from the most recent quarter for each region, service and for CONUS MHS by beneficiary status and enrollment group, making it easy for the reader to compare findings across groups and quarters. The annual report is a cumulative report that combines results from four quarters and previous years and presents results by catchment area, region, and service.

b. Beneficiary Report Production

1. Content

The quarterly Beneficiary Report presents 12 scores for all beneficiary groups and all enrollment by region and CONUS MHS overall. Scores are presented in the following areas: getting needed care; getting care quickly; courteous and helpful office staff; how well doctors communicate; customer service; claims processing; rating of the health plan, health care, personal doctor, and specialist; healthy behavior; and preventive care standards. The first 6 scores are CAHPS composites, which group together responses to several related survey questions. The CAHPS composite questions are shown in Appendix E. The scores are presented in relation to national benchmarks.

The four ratings of health care and health care providers are health plan, health care, personal doctor, and specialist. Each rating is based on a scale of 0 to 10, where 0 is the worst and 10 is the best. The scores are adjusted for patient age and health status and are presented relative to national benchmarks.

The TMA Standard Composite for preventive care is based on how beneficiaries compare preventive care services offered through the MHS with the Healthy People 2010 goals. Preventive care indicators include prenatal care, hypertension, mammography, and Pap smears.

Healthy behavior combines the non-smoking rate, the rate at which smokers are counseled to quit, and the percent non-obese.

2. Format

a. Programming Specifications

Data for the Beneficiary Reports is arranged in a SAS data set, consisting of records indexed by region, service, catchment area, enrollment group, beneficiary category, and table column. A benchmark corresponding to the MHS population is also included in the SAS data set. Records contain scores and categorical variables showing the existence and directions of significant differences. The benchmark record contains national mean values, where available, for a comparable non-MHS population.

Data files serve as the basis for the electronic reports and quality assurance. The file for the quarterly Beneficiary Reports is updated each quarter and referenced by the report card application. In each quarter, a separate quarterly file is created. The quarterly and annual Beneficiary Reports are coded in HTML and a program generates the information in the form of a data set corresponding to the cells in the tables of the reports described below. Appendix G contains the programs to generate the Beneficiary Reports.

b. Web Specifications

Quarterly Beneficiary Reports are published in a tabular, interactive, HTML format on TRICARE's website, allowing users to "drill down" in the reports to follow the performance of the MHS over time by enrollment status and beneficiary group. Each report consists of several pages of tables. The first set of tables presents the findings for a single quarter for all enrollment and beneficiary groups by region and CONUS MHS. A second set of tables presents the findings for the current quarter and for the past quarters for each enrollment and beneficiary group, by regions and CONUS MHS. Significant differences between the scores and the benchmark are indicated by color, bolding and italics. Scores significantly above the benchmark are green and bold. Scores significantly below the benchmark are red and italicized.

Like the quarterly report, the annual report is presented in HTML tabular format. One set of tables shows cumulative scores for the 2010 HCSDB by region for all beneficiary groups and enrollment groups. Another set shows scores for the questions that make up the composite, and a third set shows composites or ratings from prior years. The fourth set of tables shows scores for the catchment areas that make up the MHS regions.

2. TRICARE Consumer Watch

a. Purpose

Like the TRICARE Beneficiary Reports, the TRICARE Consumer Watch is targeted to TRICARE Regional offices, services and MTF commanders. TRICARE Consumer Watch presents key results from the quarterly HCSDB in a graphical format. The exhibits present TRICARE beneficiaries' experiences with their health care and health plan and utilization rates for preventive

services. The TRICARE Consumer Watch is produced on a quarterly basis for all regions and three service affiliations. In the fourth quarter, the TRICARE Consumer Watch is produced for all catchment areas.

Two versions of the quarterly TRICARE Consumer Watch are produced: one for all Prime Enrollees, and one comparing beneficiaries who are enrolled to military facilities (direct care users) with those who rely on civilian care financed by TRICARE through Prime or Standard/Extra (purchased care users).

b. 2010 TRICARE Consumer Watch Production

1. Content

The Consumer Watch contains graphs presenting four ratings and six composite scores. These graphs are based on data from the Beneficiary Reports. Beneficiaries are asked to rate their experiences with their health care and health plan, and their personal provider on a scale of 0 to 10 where 0 is the worst and 10 is the best. Composite scores evaluate beneficiaries' experiences with the following: getting needed care, getting care quickly, courteous and helpful office staff, how well doctors communicate, customer service, and claims processing. Using data from the National CAHPS Benchmarking Database (NCBD), ratings and composites are compared to experiences of individuals in civilian health plans. Ratings and composites are also compared to results from previous surveys.

Utilization of preventive care services are measured against the goals established by Healthy People 2010 as well as results from the prior years. Preventive care indicators include preventive cancer screenings, such as mammography and Pap smears, hypertension screening, and prenatal care. Preventative care also includes a non-smoking rate and the percentage of smokers counseled to quit.

2. Format

a. Programming Specifications

Data for the Consumer Watch is arranged in a SAS data set, and consists of records indexed by region, catchment area, enrollment group, and beneficiary category. Scores for the rating and composite graphs utilize the same programs as the TRICARE Beneficiary Reports. The data file for the Consumer Watch is updated each quarter. The programs to generate the Consumer Watch are in Appendix H.

b. Report Production Specifications

Though the Consumer Watch files reside on TRICARE's website, it is designed to be used primarily in print form. The reports are created in portable document format (PDF). The Consumer Watch is arranged on two pages; the key findings are presented as bar graphs. Preventive care scores are presented in table format.

3. "Health Care Survey of DoD Beneficiaries: Annual Report"

a. Purpose

The purpose of the "Health Care Survey of DoD Beneficiaries: Annual Report" is to provide OASD(HA), in general, and TMA, in particular, with a comprehensive national summary of the HCSDB findings. The "Health Care Survey of DoD Beneficiaries: Annual Report" bar charts

reflect survey data from all respondents in the domestic MHS and incorporates data from the adult and child HCSDb for 2010⁴ and previous years.

b. Procedures for Report Production

1. Content

The report contains seven chapters and an executive summary:

- Introduction
- Choices of Health Plan and Sources of Health Care
- TRICARE Prime Remote
- Reservists Access to Mental Health Care
- Child Mental Health
- Childhood Obesity
- Prenatal Care

2. Programming Specification

Programs for calculation of the statistics appearing in the report are written in SAS-callable SUDAAN. Means and proportions and their standard errors are calculated using PROC DESCRIPT. Tests for linear trends are performed using PROC REGRESS or PROC RLOGIST. Values are compared with benchmarks from the National CAHPS Benchmarking Database. The benchmarks are readjusted for age and health status using the methods described in Chapter 3, Section D above.

3. Report Production

Numbers and text are presented using publishing software following models developed by importing SUDAAN results into Excel as a text file. Results in the finished report are compared with their Excel models for accuracy. Methods used in the Annual Report are also described in the "Health Care Survey of DoD Beneficiary: Annual Report."

⁴ For further detail on the 2010 child HCSDb, refer to "the 2010 Health Care Survey of DoD Beneficiaries: Child Codebook and User's Guide" and "The 2010 Health Care Survey of DoD Beneficiaries: Child Technical Manual."

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APPENDIX A

ANNOTATED QUESTIONNAIRE – QUARTER I

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SURVEY STARTS HERE

According to the Privacy Act of 1974 (5 U.S.C. §552a), the Department of Defense is required to inform you of the purposes and use of this survey. Please read it carefully.

Authority: 10 U.S.C. §1074 (Medical and Dental Care for Members and Certain Former Members, as amended by National Defense Authorization Act of 1993, Public Law 102-484, §706); 10 U.S.C. §1074f (Medical Tracking System for Members Deployed Overseas); 32 C.F.R. §199.17 (TRICARE Program); 45 C.F.R. Part 160 Subparts A and E of Part 164 (Health Insurance Portability and Accountability Act of 1996, Privacy Rule); DoD 6025.18-R (Department of Defense Health Information Privacy Regulation); DoD 6025.13-R (Military Health System Clinical Quality Assurance Program Regulation); 64 FR 22837 (DHA 08 – Health Affairs Survey Data Base, April 28, 1999); and, E.O. 9397 (as amended, November 20, 2008, for SSN collection).

Purpose: This survey helps health policy makers gauge beneficiary satisfaction with the current military health care system and provides valuable input from beneficiaries that will be used to improve the Military Health System.

Routine Uses: None.

Disclosure: Participation is voluntary. Failure to respond will not result in any penalty to the respondent. However, maximum participation is encouraged so that data will be as complete and representative as possible.

YOUR PRIVACY

Your participation in this survey effort is very important. Your responses are confidential and your participation is voluntary. The number on the back of this survey is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

This is your opportunity to tell officials of your opinions and experiences with the current military health care system. It is also an opportunity to provide feedback and identify areas where improvements are needed.

The survey processing center removes all identifying information before sending the results to the Department of Defense.

Your information is grouped with others and no individual information is shared. Only group statistics will be compiled and reported. No information about you as an individual will be disclosed.

SURVEY INSTRUCTIONS

Answer all the questions by checking the box to the left of your answer. You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

- Yes → **Go to Question 42**
- No

Please return the completed questionnaire in the enclosed postage-paid envelope within **seven days**. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs)
TMA/HPAE
c/o Synovate Survey Processing Center
PO Box 5030
Chicago, IL 60680-4138

As an eligible TRICARE beneficiary, please complete this survey even if you did not receive your health care from a military facility.

Please recognize that some specific questions about TRICARE benefits may not apply to you, depending on your entitlement and particular TRICARE program.

This survey is about the health care of the person whose name appears on the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to that person.

1. Are you the person whose name appears on the cover letter?

H10001

- 1 Yes → **Go to Question 2**
- 2 No → Please give this questionnaire to the person addressed on the cover letter.

2. By which of the following health plans are you currently covered?

H10002A-H10002R

MARK ALL THAT APPLY.

Military Health Plans

- A TRICARE Prime (including TRICARE Prime Remote and TRICARE Overseas)
- C TRICARE Extra or Standard (CHAMPUS)
- N TRICARE Plus
- O TRICARE for Life
- P TRICARE Supplemental Insurance
- Q TRICARE Reserve Select

Other Health Plans

- F Medicare
- G Federal Employees Health Benefit Program (FEHBP)
- H Medicaid
- I A civilian HMO (such as Kaiser)
- J Other civilian health insurance (such as Blue Cross)
- K Uniformed Services Family Health Plan (USFHP)
- M The Veterans Administration (VA)
- R Government health insurance from a country other than the US
- L Not sure

3. Which health plan did you use for all or most of your health care in the last 12 months?

MARK ONLY ONE ANSWER.

- | |
|------------|
| H10003 |
| See Note 1 |
- 1 TRICARE Prime
 - 3 TRICARE Extra or Standard (CHAMPUS)
 - 11 TRICARE Plus
 - 12 TRICARE Reserve Select
 - 4 Medicare (may include TRICARE for Life)
 - 5 Federal Employees Health Benefit Program (FEHBP)
 - 6 Medicaid
 - 7 A civilian HMO (such as Kaiser)
 - 8 Other civilian health insurance (such as Blue Cross)
 - 9 Uniformed Services Family Health Plan (USFHP)
 - 10 The Veterans Administration (VA)
 - 13 Government health insurance from a country other than the US
 - 5 Not sure
 - 6 Did not use any health plan in the last 12 months → [Go to Question 5](#)

For the remainder of this questionnaire, the term health plan refers to the plan you indicated in Question 3.

4. How many months or years in a row have you been in this health plan?

- | |
|------------|
| H10004 |
| See Note 1 |
- 1 Less than 6 months
 - 2 6 up to 12 months
 - 3 12 up to 24 months
 - 4 2 up to 5 years
 - 5 5 up to 10 years
 - 6 10 or more years

YOUR HEALTH CARE IN THE LAST 12 MONTHS

These questions ask about your own health care. Do not include care you got when you stayed overnight in a hospital. Do not include the times you went for dental care visits.

5. In the last 12 months, where did you go most often for your health care?

MARK ONLY ONE ANSWER.

- | |
|--------|
| H10005 |
|--------|
- 1 A military facility – This includes: Military clinic, Military hospital, PRIMUS clinic, NAVCARE clinic
 - 2 A civilian facility – This includes: Doctor's office, Clinic, Hospital, Civilian TRICARE contractor
 - 3 Uniformed Services Family Health Plan facility (USFHP)
 - 4 Veterans Affairs (VA) clinic or hospital
 - 5 I went to none of the listed types of facilities in the last 12 months

6. In the last 12 months, did you have an illness, injury, or condition that needed care right away in a clinic, emergency room, or doctor's office?

- | |
|------------|
| H10006 |
| See Note 2 |
- 1 Yes
 - 2 No → [Go to Question 9](#)

7. In the last 12 months, when you needed care right away, how often did you get care as soon as you thought you needed?

- | |
|------------|
| H10007 |
| See Note 2 |
- 1 Never
 - 2 Sometimes
 - 3 Usually
 - 4 Always
 - 6 I didn't need care right away for an illness, injury or condition in the last 12 months

8. In the last 12 months, when you needed care right away for an illness, injury, or condition, how long did you usually have to wait between trying to get care and actually seeing a provider?

- | |
|------------|
| H10008 |
| See Note 2 |
- 1 Same day
 - 2 1 day
 - 3 2 days
 - 4 3 days
 - 5 4-7 days
 - 6 8-14 days
 - 7 15 days or longer
 - 6 I didn't need care right away for an illness, injury or condition in the last 12 months

9. In the last 12 months, not counting the times you needed health care right away, did you make any appointments for your health care at a doctor's office or clinic?

- | |
|------------|
| H10009 |
| See Note 3 |
- 1 Yes
 - 2 No → [Go to Question 12](#)

10. In the last 12 months, not counting times you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?

- | |
|------------|
| H10010 |
| See Note 3 |
- 1 Never
 - 2 Sometimes
 - 3 Usually
 - 4 Always
 - 6 I had no appointments in the last 12 months

11. In the last 12 months, not counting the times you needed health care right away, how many days did you usually have to wait between making an appointment and actually seeing a provider?

- | |
|------------|
| H10011 |
| See Note 3 |
- 1 Same day
 - 2 1 day
 - 3 2-3 days
 - 4 4-7 days
 - 5 8-14 days
 - 6 15-30 days
 - 7 31 days or longer
 - 6 I had no appointments in the last 12 months

12. In the last 12 months, how many times did you go to an emergency room to get care for yourself?

- 1 None
- 2 1
- 3 2
- 4 3
- 5 4
- 6 5 to 9
- 7 10 or more

H10012

13. In the last 12 months (not counting times you went to an emergency room), how many times did you go to a doctor's office or clinic to get health care for yourself?

- 1 None → [Go to Question 19](#)
- 2 1
- 3 2
- 4 3
- 5 4
- 6 5 to 9
- 7 10 or more

H10013

See Note 4

14. In the last 12 months, how often did you and a doctor or other health provider talk about specific things you could do to prevent illness?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

H10014

See Note 4

15. Choices for your treatment or health care can include choices about medicine, surgery, or other treatment. In the last 12 months, did a doctor or other health provider tell you there was more than one choice for your treatment or health care?

- 1 Yes
- 2 No → [Go to Question 18](#)

H10015

See Notes 4,5

16. In the last 12 months, did a doctor or other health provider talk with you about the pros and cons of each choice for your treatment or health care?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

H10016

See Notes 4,5

17. In the last 12 months, when there was more than one choice for your treatment or health care, did a doctor or other health provider ask which choice you thought was best for you?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

H10017

See Notes 4,5

18. Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?

- 0 0 Worst health care possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best health care possible
- 6 I had no visits in the last 12 months

H10018

See Note 4

YOUR PERSONAL DOCTOR

19. A personal doctor is the one you would see if you need a checkup, want advice about a health problem, or get sick or hurt. Do you have a personal doctor?

- 1 Yes
- 2 No → [Go to Question 29](#)

H10019

See Note 6

20. In the last 12 months, how many times did you visit your personal doctor to get care for yourself?

- 0 None → [Go to Question 27](#)
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5 to 9
- 6 10 or more

H10020

See Notes 6,7

21. In the last 12 months, how often did your personal doctor listen carefully to you?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10021

See Notes 6,7

22. In the last 12 months, how often did your personal doctor explain things in a way that was easy to understand?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10022

See Notes 6,7

23. In the last 12 months, how often did your personal doctor show respect for what you had to say?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10023
See Notes 6,7

24. In the last 12 months, how often did your personal doctor spend enough time with you?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10024
See Notes 6,7

25. In the last 12 months, did you get care from a doctor or other health provider besides your personal doctor?

- 1 Yes
- 2 No → [Go to Question 27](#)

H10025	See Note 6,7 & 8
--------	------------------

26. In the last 12 months, how often did your personal doctor seem informed and up-to-date about the care you got from these doctors or other health providers?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

H10026
See Note 6,7 & 8

27. Using any number from 0 to 10, where 0 is the worst personal doctor possible and 10 is the best personal doctor possible, what number would you use to rate your personal doctor?

- 0 0 Worst personal doctor possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best personal doctor possible
- 6 I don't have a personal doctor

H10027
See Note 6

28. Did you have the same personal doctor or nurse before you joined this health plan?

- 1 Yes → [Go to Question 30](#)
- 2 No

S10009	See Note 6, 8A1
--------	-----------------

29. Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?

- 1 A big problem
- 2 A small problem
- 3 Not a problem

S10010
See Note 8A1

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits or care you got when you stayed overnight in a hospital.

30. Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and other doctors who specialize in one area of health care.

In the last 12 months, did you try to make any appointments to see a specialist?

- 1 Yes
- 2 No → [Go to Question 34](#)

H10028	See Note 9
--------	------------

31. In the last 12 months, how often was it easy to get appointments with specialists?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't need a specialist in the last 12 months

H10029
See Note 9

32. How many specialists have you seen in the last 12 months?

- 0 None → [Go to Question 34](#)
- 1 1 specialist
- 2 2
- 3 3
- 4 4
- 5 5 or more specialists

H10030
See Note 9,10

33. We want to know your rating of the specialist you saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate the specialist?

- 0 0 Worst specialist possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best specialist possible
- 6 I didn't see a specialist in the last 12 months

H10031
See Note 9,10

34. In general, how would you rate your overall mental or emotional health? S10B01
- 1 Excellent
 - 2 Very good
 - 3 Good
 - 4 Fair
 - 5 Poor
35. In the last 12 months, did you need any treatment or counseling for a personal or family problem?
- 1 Yes
 - 2 No → [Go to Question 38](#)
- S10B02

See Note 10A1
36. In the last 12 months, how much of a problem, if any, was it to get the treatment or counseling you needed through your health plan?
- 1 A big problem
 - 2 A small problem
 - 3 Not a problem
- S10B03

See Note 10A1
37. Using any number from 0 to 10, where 0 is the worst treatment or counseling possible and 10 is the best treatment or counseling possible, what number would you use to rate your treatment or counseling in the last 12 months?
- 0 0 Worst treatment or counseling possible
 - 1 1
 - 2 2
 - 3 3
 - 4 4
 - 5 5
 - 6 6
 - 7 7
 - 8 8
 - 9 9
 - 10 10 Best treatment or counseling possible
 - 6 I had no treatment or counseling in the last 12 months
- S10B04

See Note 10A1

YOUR HEALTH PLAN

The next questions ask about your experience with your health plan. By your health plan, we mean the health plan you marked in Question 3.

38. In the last 12 months, did you try to get any kind of care, tests, or treatment through your health plan?
- 1 Yes
 - 2 No → [Go to Question 40](#)
- H10032

See Note 11

39. In the last 12 months, how often was it easy to get the care, tests or treatment you thought you needed through your health plan?
- 1 Never
 - 2 Sometimes
 - 3 Usually
 - 4 Always
 - 6 I didn't need care, tests or treatment through my health plan in the last 12 months
- H10033

See Note 11
40. In the last 12 months, did you look for any information in written materials or on the Internet about how your health plan works?
- 1 Yes
 - 2 No → [Go to Question 42](#)
- H10034B

See Note 11B
41. In the last 12 months, how often did the written material or the Internet provide the information you needed about how your plan works?
- 1 Never
 - 2 Sometimes
 - 3 Usually
 - 4 Always
 - 6 I didn't look for information from my health plan in the last 12 months
- H10034

See Note 11B
42. Sometimes people need services or equipment beyond what is provided in a regular or routine office visit, such as care from a specialist, physical therapy, a hearing aid, or oxygen.
- In the last 12 months, did you look for information from your health plan on how much you would have to pay for a health care service or equipment?
- 1 Yes
 - 2 No → [Go to Question 44](#)
- H10035

See Note 12
43. In the last 12 months, how often were you able to find out from your health plan how much you would have to pay for a health care service or equipment?
- 1 Never
 - 2 Sometimes
 - 3 Usually
 - 4 Always
 - 6 I didn't need a health care service or equipment from my health plan in the last 12 months
- H10036

See Note 12
44. In some health plans, the amount you pay for a prescription medicine can be different for different medicines, or can be different for prescriptions filled by mail instead of at the pharmacy.
- In the last 12 months, did you look for information from your health plan on how much you would have to pay for specific prescription medicines?
- 1 Yes
 - 2 No → [Go to Question 46](#)
- H10037

See Note 13

45. In the last 12 months, how often were you able to find out from your health plan how much you would have to pay for specific prescription medications?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't need prescription medications from my health plan in the last 12 months

H10038

See Note 13

46. In the last 12 months, did you try to get information or help from your health plan's customer service?

- 1 Yes
- 2 No

H10039

See Note 14

→ Go to Question 49

47. In the last 12 months, how often did your health plan's customer service give you the information or help you needed?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't call my health plan's customer service in the last 12 months

H10040

See Note 14

48. In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't call my health plan's customer service in the last 12 months

H10041

See Note 14

49. In the last 12 months, did your health plan give you any forms to fill out?

- 1 Yes
- 2 No

H10042

See Note 15

→ Go to Question 51

50. In the last 12 months, how often were the forms from your health plan easy to fill out?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't have any experiences with paperwork for my health plan in the last 12 months

H10043

See Note 15

51. Claims are sent to a health plan for payment. You may send in the claims yourself, or doctors, hospitals, or others may do this for you. In the last 12 months, did you or anyone else send in any claims to your health plan?

- 1 Yes
- 2 No
- 5 Don't know

→ Go to Question 54

→ Go to Question 54

H10044

See Note 16

52. In the last 12 months, how often did your health plan handle your claims quickly?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 5 Don't know
- 6 No claims were sent for me in the last 12 months

H10045

See Note 16

53. In the last 12 months, how often did your health plan handle your claims correctly?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 5 Don't know
- 6 No claims were sent for me in the last 12 months

H10046

See Note 16

54. Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?

- 0 0 Worst health plan possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best health plan possible

H10047

RESERVISTS

The following questions concern health care coverage provided to reservists (National Guard and Reserves) and members of their immediate families. An immediate family member is a reservist's TRICARE eligible spouse or child.

55. Are you or your spouse or parent a reservist who was on active duty for more than 30 consecutive days in support of contingency operations during the past 12 months (e.g. Operation Iraqi Freedom, Noble Eagle/Enduring Freedom, Kosovo, Bosnia)?

- 1 Yes
- 2 No

→ Go to Question 71

S10G18

See Note 16B1

56. Are you a reservist who was activated for contingency operations for more than 30 consecutive days during the past 12 months?

- 1 Yes, I am a reservist who is currently on active duty for a contingency operation
- 2 Yes, I am a reservist who has been on active duty for a contingency operation but was deactivated in the past 12 months
- 3 No, I am a reservist but I have not been on active duty for a contingency operation in the past 12 months
- 4 No, I am not a reservist

S10G19
See Note 16B1

57. Is your spouse or parent a reservist who was activated for contingency operations for more than 30 consecutive days during the past 12 months?

- 1 Yes, my spouse or parent is a reservist currently on active duty for a contingency operation
- 2 Yes, my reservist spouse or parent had been on active duty for a contingency operation but was deactivated in the past 12 months
- 3 No, my spouse or parent is a reservist but has not been on active duty for a contingency operation in the past 12 months
- 4 No, my spouse or parent is not a reservist

S10G23	See Note 16B1
--------	---------------

58. Before becoming eligible for TRICARE Prime, Standard/Extra or transitional coverage due to your activation or your parent's or your spouse's activation, were you covered by civilian health insurance?

- 1 Yes, through my own policy
- 2 Yes, through the policy of a reservist spouse or parent
- 3 Yes, through the policy of a non-reservist in my family
- 4 No, I had no civilian coverage

S10G27	See Note 16B1
--------	---------------

59. Which of the following describes your current health care coverage?

- 1 I use only TRICARE → [Go to Question 62](#)
- 2 I use both TRICARE and civilian coverage → [Go to Question 61](#)
- 3 I use only civilian coverage → [Go to Question 60](#)
- 5 Don't know → [Go to Question 61](#)

S10G28	See Notes 16B1, 16B2
--------	----------------------

60. Why don't you use TRICARE?

S10G29A-S10G29K
See Notes 16B1, 16B2

MARK ALL THAT APPLY.

- A I have a greater choice of doctors with my civilian plan
- B I get better customer service with civilian plans
- C My personal doctor is not available to me through TRICARE
- D TRICARE benefits are poor compared to my civilian plan
- E It is easier for me to get care through my civilian plan
- F I pay less for civilian care than I would for TRICARE
- G There are no military facilities near me
- H I prefer civilian doctors
- I I prefer civilian hospitals
- J I am happy with my civilian plan and have no reason to change
- K Another reason

61. Do you or the policy-holder now pay all or part of the premium for your civilian health insurance?

- 1 Yes, we pay all
- 3 Yes, we pay part
- 2 No, we pay nothing
- 5 Don't know

S10G30
See Notes 16B1, 16B2

62. When you became eligible for TRICARE due to activation, how much of a problem was it to get information about your TRICARE benefits?

- 1 A big problem
- 2 A small problem
- 3 Not a problem
- 6 I did not try to get information about TRICARE

S10G31
See Note 16B1

63. Is the doctor you consider your personal doctor a civilian?

- 1 Yes
- 2 No → [Go to Question 65](#)
- 6 I do not have a personal doctor → [Go to Question 66](#)

S10G32	See Notes 16B1, 16B3
--------	----------------------

64. Does your personal doctor accept TRICARE?

- 1 Yes
- 2 No
- 5 Don't know
- 6 I do not have a personal doctor

S10G33
See Notes 16B1, 16B3

65. Since you became eligible for TRICARE due to activation, how difficult is it to see the personal doctor you want to see?

- 1 It is now more difficult
- 2 It is now less difficult
- 3 It is about the same
- 6 I do not have a personal doctor

S10G34
See Notes 16B1, 16B3

66. Since you became eligible for TRICARE due to activation, how difficult is it to see the specialists you want to see?

- 1 It is now more difficult S10G35
- 2 It is now less difficult See Note 16B1
- 3 It is about the same
- 6 I have not needed to see any specialists

67. TRICARE Reserve Select (TRS) is a premium-based TRICARE health plan available for purchase by qualified members of the Selected Reserve. Are you aware of this program?

- 1 Yes S10G40 See Notes 16B1, 16B4
- 2 No → [Go to Question 71](#)

68. In the past 12 months, have you (or your sponsor) been eligible to purchase coverage under TRICARE Reserve Select?

- 1 Yes S10G41
- 2 No See Notes 16B1, 16B4
- 3 Don't know

69. Effective October 1, 2007, several changes were made to the TRICARE Reserve Select eligibility rules, enrollment process, and premiums. Are you aware of any of these changes to the TRICARE Reserve Select health plan?

- 1 Yes S10G42
- 2 No See Notes 16B1, 16B4

70. Since October 1, 2007, have you been enrolled in the TRICARE Reserve Select program?

- 1 Yes, I/we re-enrolled in TRICARE Reserve Select
- 2 Yes, I/we enrolled for the first time in TRICARE Reserve Select S10G43
- 3 No, have not enrolled
- 5 Don't know See Notes 16B1, 16B4

PREVENTIVE CARE

Preventive care is medical care you receive that is intended to maintain your good health or prevent a future medical problem. A physical or blood pressure screening are examples of preventive care.

71. When did you last have a blood pressure reading?

- 3 Less than 12 months ago H10048
- 2 1 to 2 years ago
- 1 More than 2 years ago

72. Do you know if your blood pressure is too high?

- 1 Yes, it is too high H10049
- 2 No, it is not too high
- 3 Don't know

73. When did you last have a flu shot? H10050

- 4 Less than 12 months ago
- 3 1-2 years ago
- 2 More than 2 years ago
- 1 Never had a flu shot

74. Have you ever smoked at least 100 cigarettes in your entire life? H10051 See Note 17

- 1 Yes
- 2 No → [Go to Question 79](#)
- 5 Don't know → [Go to Question 79](#)

75. Do you now smoke cigarettes every day, some days or not at all? H10052 See Note 17

- 4 Every day → [Go to Question 76](#)
- 3 Some days → [Go to Question 76](#)
- 2 Not at all → [Go to Question 79](#)
- 5 Don't know → [Go to Question 79](#)

76. In the last 12 months, on how many visits were you advised to quit smoking by a doctor or other health provider in your plan? H10053

- 1 None See Notes 17, 18
- 2 1 visit
- 3 2 to 4 visits
- 4 5 to 9 visits
- 5 10 or more visits
- 6 I had no visits in the last 12 months

77. On how many visits was medication recommended or discussed to assist you with quitting smoking (for example: nicotine gum, patch, nasal spray, inhaler, prescription medication)? H10054

- 1 None See Notes 17, 18
- 2 1 visit
- 3 2 to 4 visits
- 4 5 to 9 visits
- 5 10 or more visits
- 6 I had no visits in the last 12 months

78. On how many visits did your doctor or health provider recommend or discuss methods and strategies (other than medication) to assist you with quitting smoking?

- 1 None H10055
- 2 1 visit
- 3 2 to 4 visits See Notes 17, 18
- 4 5 to 9 visits
- 5 10 or more visits
- 6 I had no visits in the last 12 months

79. Do you currently smoke any tobacco products other than cigarettes, such as cigars, pipes, bidis, kreteks, or any other tobacco product?

Note: Bidis are small, brown, hand-rolled cigarettes from India and other southeast Asian countries. Kreteks are clove cigarettes made in Indonesia that contain clove extract and tobacco.

S10D03

- 1 Yes
- 2 No
- 5 Don't know

80. Do you currently use smokeless tobacco products such as dip, chewing tobacco, snuff or snus every day, some days, or not at all?

S10D02

- 1 Every day
- 2 Some days
- 3 Not at all

81. Are you male or female? H10056 See Note 19A

- 1 Male → [Go to Question 88](#)
- 2 Female

82. When did you last have a Pap smear test? H10057 See Notes 19A & 19B

- 5 Within the last 12 months
- 4 1 to 3 years ago
- 3 More than 3 but less than 5 years ago
- 2 5 or more years ago
- 1 Never had a Pap smear test

83. Are you under age 40? H10058

- 1 Yes → [Go to Question 85](#)
- 2 No

See Notes 19A, 19B & 20

84. When was the last time your breasts were checked by mammography? H10059 See Notes 19A, 19B & 20

- 5 Within the last 12 months
- 4 1 to 2 years ago
- 3 More than 2 years ago but less than 5 years ago
- 2 5 or more years ago
- 1 Never had a mammogram

85. Have you been pregnant in the last 12 months or are you pregnant now?

- 1 Yes, I am currently pregnant → [Go to Question 86](#)
- 2 No, I am not currently pregnant, but have been pregnant in the past 12 months → [Go to Question 87](#)
- 3 No, I am not currently pregnant, and have not been pregnant in the past 12 months → [Go to Question 88](#)

H10060 See Notes 19A, 19B, & 21

86. In what trimester is your pregnancy? H10061 See Notes 19A, 19B, & 21

- 1 First trimester (up to 12 weeks after 1st day of last period) → [Go to Question 88](#)
- 2 Second trimester (13th through 27th week)
- 3 Third trimester (28th week until delivery)

87. In which trimester did you first receive prenatal care? H10062 See Notes 19A, 19B, & 21

- 4 First trimester (up to 12 weeks after 1st day of last period)
- 3 Second trimester (13th through 27th week)
- 2 Third trimester (28th week until delivery)
- 1 Did not receive prenatal care

ABOUT YOU

88. In general, how would you rate your overall health? H10063

- 5 Excellent
- 4 Very good
- 3 Good
- 2 Fair
- 1 Poor

89. Are you limited in any way in any activities because of any impairment or health problem? H10064

- 1 Yes
- 2 No

90. In the last 12 months, have you seen a doctor or other health provider 3 or more times for the same condition or problem? H10065 See Note 22

- 1 Yes
- 2 No → [Go to Question 92](#)

91. Is this a condition or problem that has lasted for at least 3 months? Do not include pregnancy or menopause. H10066

- 1 Yes
- 2 No

See Note 22

92. Do you now need or take medicine prescribed by a doctor? Do not include birth control. H10067 See Note 23

- 1 Yes
- 2 No → [Go to Question 94](#)

93. Is this medicine to treat a condition that has lasted for at least 3 months? Do not include pregnancy or menopause. H10068

- 1 Yes
- 2 No

See Note 23

94. Have you ever had any experience that was so frightening, horrible, or upsetting that, in the past month...

MARK "YES" OR "NO" TO EACH.

S10B23-S10B26

YES NO

- 1 2 You have had nightmares about it or thought about it when you did not want to?
- 1 2 You tried hard not to think about it or went out of your way to avoid situations that reminded you of it?
- 1 2 You have been constantly on guard, watchful, or easily startled?
- 1 2 You felt numb or detached from others, activities, or your surroundings?

95. How tall are you without your shoes on? H10069F, H10069I

Please give your answer in feet and inches.

Example:

Height	
Feet	Inches
<u>5</u>	<u>6</u>
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input checked="" type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

Your answer:

Height	
Feet	Inches
_____	_____
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

96. How much do you weigh without your shoes on?

Please give your answer in pounds.

H10070

Example:

Weight		
Pounds		
<u>1</u>	<u>6</u>	<u>0</u>
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> 0
<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input checked="" type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

Your Answer:

Weight		
Pounds		
_____	_____	_____
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

97. Have you or your spouse been deployed to a combat zone within the past two years? S10B22

- 1 Yes, I and/or my spouse have been deployed in the past year
- 2 Yes, I and/or my spouse have been deployed within the past two years
- 3 No, neither I nor my spouse has been deployed within the past two years

98. What is the highest grade or level of school that you have completed? SREDA

- 1 8th grade or less
- 2 Some high school, but did not graduate
- 3 High school graduate or GED
- 4 Some college or 2-year degree
- 5 4-year college graduate
- 6 More than 4-year college degree

99. Are you of Hispanic or Latino origin or descent?

(Mark "NO" if not Spanish/Hispanic/Latino.)

- A No, not Spanish, Hispanic, or Latino
- B Yes, Mexican, Mexican American, Chicano
- C Yes, Puerto Rican
- D Yes, Cuban
- E Yes, other Spanish, Hispanic, or Latino

H10071A- H10071E, H10071

See Note 24

100. What is your race?

(Mark ONE OR MORE races to indicate what you consider yourself to be.)

- A White
- B Black or African American
- C American Indian or Alaska Native
- D Asian (e.g., Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)
- E Native Hawaiian or other Pacific Islander (e.g., Samoan, Guamanian, or Chamorro)

SRRACEA-SRRACEE

101. What is your age now? SRAGE

- 1 18 to 24
- 2 25 to 34
- 3 35 to 44
- 4 45 to 54
- 5 55 to 64
- 6 65 to 74
- 7 75 or older

SRAGE

102. Currently, are you covered by Medicare Part A? *Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part A helps pay for inpatient hospital care.*

H10072

- 1 Yes, I am now covered by Medicare Part A
2 No, I am not covered by Medicare Part A

103. Currently, are you covered by Medicare Part B? *Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part B helps pay for doctor's services, outpatient hospital services, and certain other services.*

H10073

- 1 Yes, I am now covered by Medicare Part B
2 No, I am not covered by Medicare Part B

104. Currently, are you covered by Medicare supplemental insurance? *Medicare supplemental insurance, also called Medigap or MediSup, is usually obtained from private insurance companies and covers some of the costs not paid for by Medicare.*

H10074

- 1 Yes, I am now covered by Medicare supplemental insurance
2 No, I am not covered by Medicare supplemental insurance

105. Using a scale of 1 to 5, with 1 being "strongly disagree" and 5 being "strongly agree", how much do you agree with the following statement: In general, I am able to see my provider(s) when needed?

S10011

- 1 1 Strongly disagree
2 2 Disagree
3 3 Neither agree nor disagree
4 4 Agree
5 5 Strongly agree

106. Using a scale of 1 to 5, with 1 being "completely dissatisfied" and 5 being "completely satisfied", how satisfied are you, overall, with the health care you received during your last visit?

S10014

- 1 1 Completely dissatisfied
2 2 Somewhat dissatisfied
3 3 Neither satisfied nor dissatisfied
4 4 Somewhat satisfied
5 5 Completely satisfied

THANK YOU FOR TAKING THE TIME TO COMPLETE THE SURVEY! Your generous contribution will greatly aid efforts to improve the health of our military community.

Return your survey in the postage-paid envelope. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs)
TMA/HPAE
c/o Synovate Survey Processing Center
PO Box 5030
Chicago, IL 60680-4138

Questions about the survey?

Email: survey-dodq2@synovate.net

Toll-free phone (in the US, Puerto Rico and Canada):
1-877-236-2390, available 24 hours a day
Toll-free fax (in the US and Canada): 1-800-409-7681

International Toll-Free numbers:

Germany: 0 800 182 1532
Great Britain: 008 234 7139
Japan: 0053 11 30 814
South Korea: 003 0813 1286
Mexico: 001 877 238 5171
Philippines: 1 800 1116 2366

When calling or writing, please provide your 8-digit ID number printed in blue on the letter accompanying this survey.

Questions about your TRICARE coverage?

For additional information on TRICARE, or if you are not sure about your benefits, or if you don't have a primary care manager; contact the TRICARE Service Center in your region:

North: 1-877-874-2273
South: 1-800-444-5445
West: 1-888-874-9378
Outside the US: 1-888-777-8343

The website is:

www.tricare.osd.mil/tricare-servicecenters

Veterans: Contact the US Department of Veterans Affairs at
1-877-222-VETS; or go to www.va.gov

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APPENDIX A

ANNOTATED QUESTIONNAIRE – QUARTER II

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According to the Privacy Act of 1974 (5 U.S.C. §552a), the Department of Defense is required to inform you of the purposes and use of this survey. Please read it carefully.

Authority: 10 U.S.C. §1074 (Medical and Dental Care for Members and Certain Former Members, as amended by National Defense Authorization Act of 1993, Public Law 102-484, §706); 10 U.S.C. §1074f (Medical Tracking System for Members Deployed Overseas); 32 C.F.R. §199.17 (TRICARE Program); 45 C.F.R. Part 160 Subparts A and E of Part 164 (Health Insurance Portability and Accountability Act of 1996, Privacy Rule); DoD 6025.18-R (Department of Defense Health Information Privacy Regulation); DoD 6025.13-R (Military Health System Clinical Quality Assurance Program Regulation); 64 FR 22837 (DHA 08 – Health Affairs Survey Data Base, April 28, 1999); and, E.O. 9397 (as amended, November 20, 2008, for SSN collection).

Purpose: This survey helps health policy makers gauge beneficiary satisfaction with the current military health care system and provides valuable input from beneficiaries that will be used to improve the Military Health System.

Routine Uses: None.

Disclosure: Participation is voluntary. Failure to respond will not result in any penalty to the respondent. However, maximum participation is encouraged so that data will be as complete and representative as possible.

YOUR PRIVACY

Your participation in this survey effort is very important. Your responses are confidential and your participation is voluntary. The number on the back of this survey is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

This is your opportunity to tell officials of your opinions and experiences with the current military health care system. It is also an opportunity to provide feedback and identify areas where improvements are needed.

The survey processing center removes all identifying information before sending the results to the Department of Defense.

Your information is grouped with others and no individual information is shared. Only group statistics will be compiled and reported. No information about you as an individual will be disclosed.

SURVEY INSTRUCTIONS

Answer all the questions by checking the box to the left of your answer. You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

- Yes → **Go to Question 42**
- No

Please return the completed questionnaire in the enclosed postage-paid envelope within **seven days**. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs)
 TMA/HPAE
 c/o Synovate Survey Processing Center
 PO Box 5030
 Chicago, IL 60680-4138

As an eligible TRICARE beneficiary, please complete this survey even if you did not receive your health care from a military facility.

Please recognize that some specific questions about TRICARE benefits may not apply to you, depending on your entitlement and particular TRICARE program.

This survey is about the health care of the person whose name appears on the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to that person.

1. Are you the person whose name appears on the cover letter?

H10001

- 1 Yes → **Go to Question 2**
- 2 No → Please give this questionnaire to the person addressed on the cover letter.

2. By which of the following health plans are you currently covered?

H10002A-H10002R

MARK ALL THAT APPLY.

Military Health Plans

- A TRICARE Prime (including TRICARE Prime Remote and TRICARE Overseas)
- C TRICARE Extra or Standard (CHAMPUS)
- N TRICARE Plus
- O TRICARE for Life
- P TRICARE Supplemental Insurance
- Q TRICARE Reserve Select

Other Health Plans

- F Medicare
- G Federal Employees Health Benefit Program (FEHBP)
- H Medicaid
- I A civilian HMO (such as Kaiser)
- J Other civilian health insurance (such as Blue Cross)
- K Uniformed Services Family Health Plan (USFHP)
- M The Veterans Administration (VA)
- R Government health insurance from a country other than the US
- L Not sure

3. Which health plan did you use for all or most of your health care in the last 12 months?

H10003
See Note 1

MARK ONLY ONE ANSWER.

- 1 TRICARE Prime
- 3 TRICARE Extra or Standard (CHAMPUS)
- 11 TRICARE Plus
- 12 TRICARE Reserve Select
- 4 Medicare (may include TRICARE for Life)
- 5 Federal Employees Health Benefit Program (FEHBP)
- 6 Medicaid
- 7 A civilian HMO (such as Kaiser)
- 8 Other civilian health insurance (such as Blue Cross)
- 9 Uniformed Services Family Health Plan (USFHP)
- 10 The Veterans Administration (VA)
- 13 Government health insurance from a country other than the US
- 5 Not sure
- 6 Did not use any health plan in the last 12 months → [Go to Question 5](#)

For the remainder of this questionnaire, the term health plan refers to the plan you indicated in Question 3.

4. How many months or years in a row have you been in this health plan?

H10004
See Note 1

- 1 Less than 6 months
- 2 6 up to 12 months
- 3 12 up to 24 months
- 4 2 up to 5 years
- 5 5 up to 10 years
- 6 10 or more years

YOUR HEALTH CARE IN THE LAST 12 MONTHS

These questions ask about your own health care. Do not include care you got when you stayed overnight in a hospital. Do not include the times you went for dental care visits.

5. In the last 12 months, where did you go most often for your health care?

H10005

MARK ONLY ONE ANSWER.

- 1 A military facility – This includes: Military clinic, Military hospital, PRIMUS clinic, NAVCARE clinic
- 2 A civilian facility – This includes: Doctor's office, Clinic, Hospital, Civilian TRICARE contractor
- 3 Uniformed Services Family Health Plan facility (USFHP)
- 4 Veterans Affairs (VA) clinic or hospital
- 5 I went to none of the listed types of facilities in the last 12 months

6. In the last 12 months, did you have an illness, injury, or condition that needed care right away in a clinic, emergency room, or doctor's office?

1 <input type="checkbox"/> Yes	H10006	See Note 2
2 <input type="checkbox"/> No	→ Go to Question 9	

7. In the last 12 months, when you needed care right away, how often did you get care as soon as you thought you needed?

H10007
See Note 2

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't need care right away for an illness, injury or condition in the last 12 months

8. In the last 12 months, when you needed care right away for an illness, injury, or condition, how long did you usually have to wait between trying to get care and actually seeing a provider?

H10008
See Note 2

- 1 Same day
- 2 1 day
- 3 2 days
- 4 3 days
- 5 4-7 days
- 6 8-14 days
- 7 15 days or longer
- 6 I didn't need care right away for an illness, injury or condition in the last 12 months

9. In the last 12 months, not counting the times you needed health care right away, did you make any appointments for your health care at a doctor's office or clinic?

1 <input type="checkbox"/> Yes	→ Go to Question 12	H10009	See Note 3
2 <input type="checkbox"/> No			

10. In the last 12 months, not counting times you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?

H10010
See Note 3

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no appointments in the last 12 months

11. In the last 12 months, not counting the times you needed health care right away, how many days did you usually have to wait between making an appointment and actually seeing a provider?

H10011
See Note 3

- 1 Same day
- 2 1 day
- 3 2-3 days
- 4 4-7 days
- 5 8-14 days
- 6 15-30 days
- 7 31 days or longer
- 6 I had no appointments in the last 12 months

12. In the last 12 months, how many times did you go to an emergency room to get care for yourself?

1	<input type="checkbox"/>	None	H10012
2	<input type="checkbox"/>	1	
3	<input type="checkbox"/>	2	
4	<input type="checkbox"/>	3	
5	<input type="checkbox"/>	4	
6	<input type="checkbox"/>	5 to 9	
7	<input type="checkbox"/>	10 or more	

13. In the last 12 months (not counting times you went to an emergency room), how many times did you go to a doctor's office or clinic to get health care for yourself?

1	<input type="checkbox"/>	None	→ Go to Question 19
2	<input type="checkbox"/>	1	H10013
3	<input type="checkbox"/>	2	
4	<input type="checkbox"/>	3	See Note 4
5	<input type="checkbox"/>	4	
6	<input type="checkbox"/>	5 to 9	
7	<input type="checkbox"/>	10 or more	

14. In the last 12 months, how often did you and a doctor or other health provider talk about specific things you could do to prevent illness?

1	<input type="checkbox"/>	Never	H10014
2	<input type="checkbox"/>	Sometimes	
3	<input type="checkbox"/>	Usually	See Note 4
4	<input type="checkbox"/>	Always	

15. Choices for your treatment or health care can include choices about medicine, surgery, or other treatment. In the last 12 months, did a doctor or other health provider tell you there was more than one choice for your treatment or health care?

1	<input type="checkbox"/>	Yes	H10015	See Notes 4,5
2	<input type="checkbox"/>	No		

16. In the last 12 months, did a doctor or other health provider talk with you about the pros and cons of each choice for your treatment or health care?

1	<input type="checkbox"/>	Definitely yes	H10016
2	<input type="checkbox"/>	Somewhat yes	
3	<input type="checkbox"/>	Somewhat no	See Notes 4,5
4	<input type="checkbox"/>	Definitely no	

17. In the last 12 months, when there was more than one choice for your treatment or health care, did a doctor or other health provider ask which choice you thought was best for you?

1	<input type="checkbox"/>	Definitely yes	H10017
2	<input type="checkbox"/>	Somewhat yes	
3	<input type="checkbox"/>	Somewhat no	See Notes 4,5
4	<input type="checkbox"/>	Definitely no	

18. Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?

0	<input type="checkbox"/>	0	Worst health care possible
1	<input type="checkbox"/>	1	H10018
2	<input type="checkbox"/>	2	
3	<input type="checkbox"/>	3	See Note 4
4	<input type="checkbox"/>	4	
5	<input type="checkbox"/>	5	
6	<input type="checkbox"/>	6	
7	<input type="checkbox"/>	7	
8	<input type="checkbox"/>	8	
9	<input type="checkbox"/>	9	
10	<input type="checkbox"/>	10	Best health care possible
-6	<input type="checkbox"/>	I had no visits in the last 12 months	

YOUR PERSONAL DOCTOR

19. A personal doctor is the one you would see if you need a checkup, want advice about a health problem, or get sick or hurt. Do you have a personal doctor?

1	<input type="checkbox"/>	Yes	H10019	See Note 6
2	<input type="checkbox"/>	No		

20. In the last 12 months, how many times did you visit your personal doctor to get care for yourself?

0	<input type="checkbox"/>	None	→ Go to Question 27	
1	<input type="checkbox"/>	1		
2	<input type="checkbox"/>	2	H10020	See Notes 6,7
3	<input type="checkbox"/>	3		
4	<input type="checkbox"/>	4		
5	<input type="checkbox"/>	5 to 9		
6	<input type="checkbox"/>	10 or more		

21. In the last 12 months, how often did your personal doctor listen carefully to you?

1	<input type="checkbox"/>	Never	H10021
2	<input type="checkbox"/>	Sometimes	
3	<input type="checkbox"/>	Usually	See Notes 6,7
4	<input type="checkbox"/>	Always	
-6	<input type="checkbox"/>	I had no visits in the last 12 months	

22. In the last 12 months, how often did your personal doctor explain things in a way that was easy to understand?

1	<input type="checkbox"/>	Never	H10022
2	<input type="checkbox"/>	Sometimes	
3	<input type="checkbox"/>	Usually	See Notes 6,7
4	<input type="checkbox"/>	Always	
-6	<input type="checkbox"/>	I had no visits in the last 12 months	

23. In the last 12 months, how often did your personal doctor show respect for what you had to say?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10023
See Notes 6,7

24. In the last 12 months, how often did your personal doctor spend enough time with you?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10024
See Notes 6,7

25. In the last 12 months, did you get care from a doctor or other health provider besides your personal doctor?

- 1 Yes
- 2 No → [Go to Question 27](#)

H10025	See Notes 6,7 & 8
--------	-------------------

26. In the last 12 months, how often did your personal doctor seem informed and up-to-date about the care you got from these doctors or other health providers?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

H10026
See Notes 6,7 & 8

27. Using any number from 0 to 10, where 0 is the worst personal doctor possible and 10 is the best personal doctor possible, what number would you use to rate your personal doctor?

- 0 0 Worst personal doctor possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best personal doctor possible
- 6 I don't have a personal doctor

H10027
See Note 6

28. Did you have the same personal doctor or nurse before you joined this health plan?

- 1 Yes → [Go to Question 30](#)
- 2 No

S10009	See Note 6, 8A1
--------	-----------------

29. Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?

- 1 A big problem
- 2 A small problem
- 3 Not a problem

S10010
See Note 8A1

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits or care you got when you stayed overnight in a hospital.

30. Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and other doctors who specialize in one area of health care.

In the last 12 months, did you try to make any appointments to see a specialist?

- 1 Yes
- 2 No → [Go to Question 34](#)

H10028	See Note 9
--------	------------

31. In the last 12 months, how often was it easy to get appointments with specialists?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't need a specialist in the last 12 months

H10029
See Note 9

32. How many specialists have you seen in the last 12 months?

- 0 None → [Go to Question 34](#)
- 1 1 specialist
- 2 2
- 3 3
- 4 4
- 5 5 or more specialists

H10030
See Note 9,10

33. We want to know your rating of the specialist you saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate the specialist?

- 0 0 Worst specialist possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best specialist possible
- 6 I didn't see a specialist in the last 12 months

H10031
See Note 9,10

**TRICARE CIVILIAN PROVIDERS
(OUTSIDE OF MILITARY INSTALLATIONS)**

The following questions ask about your experiences with civilian providers while using TRICARE. TRICARE, including TRICARE Prime and Extra, is the healthcare system of the Department of Defense that provides care for active duty and retired military personnel and their dependents. TRICARE includes the hospitals, clinics, and pharmacies of the three Services, supplemented by offsite civilian providers. Some are members of TRICARE's civilian provider network, which is made up of the doctors, clinics, hospitals, and other health care providers who are part of DoD's preferred provider pool. Others accept payment from TRICARE, but are not network members.

34. **A personal doctor or nurse is the health provider who knows you best. This can be a general doctor, a specialist doctor, a nurse practitioner, or a physician assistant.**

Is your personal doctor or nurse a civilian?

- 1 Yes S10V19 See Note 10B1
- 2 No
- 6 I do not have a personal doctor or nurse

35. **In the last 12 months, how much of a problem was it to find a personal doctor or nurse who would accept TRICARE?**

- 1 A big problem
- 2 A small problem
- 3 Not a problem → [Go to Question 37](#)
- S10V20 See Note 10B2

36. **What problems did you encounter in finding a personal doctor who would accept TRICARE?**

- MARK ALL THAT APPLY.**
- A Travel distance too long
- B Communicating with doctor(s)
- C Doctor(s) not taking new patients
- D Doctor(s) not taking new TRICARE patients
- E Doctor(s) not accepting TRICARE payment
- F Could not find the specialty I wanted
- G Did not like doctor(s)
- H Wait for an appointment was too long
- I Could not find information about doctors
- J Other _____
- S10V21A-S10V21J See Note 10B2

37. **The TRICARE Civilian network is made up of the doctors, clinics, hospitals, and other health care providers who are part of DoD's preferred provider pool. Is your personal doctor or nurse part of TRICARE's civilian provider network?**

- 1 Yes
- 2 No
- 6 I do not have a personal doctor or nurse
- S10V22 See Note 10B1

38. **In the last 12 months, how much of a problem was it to find a doctor or nurse from the TRICARE civilian provider network?**

- 1 A big problem S10V06
- 2 A small problem See Note 10B3
- 3 Not a problem → [Go to Question 40](#)
- 6 I did not try to find a personal doctor from the civilian network → [Go to Question 40](#)

39. **What problems did you encounter in finding a personal doctor from the civilian network?**

- MARK ALL THAT APPLY.**
- A Travel distance too long S10V11A-S10V11I
- B Doctor's location inconvenient See Note 10B3
- C Communicating with doctor(s)
- D Doctor(s) not taking new patients
- E Could not find the specialty I wanted
- F Did not like doctor(s)
- G Wait for an appointment was too long
- H Could not find information about doctors
- I Other _____

40. **Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and others who specialize in one area of healthcare.**

In the past 12 months, did you see a civilian specialist?

- 1 Yes S10V23 See Note 10B4
- 2 No → [Go to Question 42](#)

41. **In the past 12 months, was the civilian specialist you saw most the same as your personal doctor?**

- 1 Yes S10V24 See Note 10B4
- 2 No

42. **In the last 12 months, how much of a problem was it to find a specialist who would accept TRICARE?**

- 1 A big problem S10V25
- 2 A small problem See Note 10B5
- 3 Not a problem → [Go to Question 44](#)
- 6 I did not need to see a civilian specialist → [Go to Question 48](#)

43. **What problems did you encounter in finding a specialist who would accept TRICARE?**

- MARK ALL THAT APPLY.**
- A Travel distance too long S10V26A-S10V26J
- B Communicating with doctor(s) See Note 10B5
- C Doctor(s) not taking new patients
- D Doctor(s) not taking new TRICARE patients
- E Doctor(s) not accepting TRICARE payment
- F Could not find the specialty I wanted
- G Did not like doctor(s)
- H Wait for an appointment was too long
- I Could not find information about doctors
- J Other _____

44. In the past 12 months, was the civilian specialist you saw most a member of TRICARE's civilian network?

- 1 Yes S10V27 See Note 10B5
2 No

45. What was the specialty of the civilian specialist you saw most often?

MARK ONLY ONE ANSWER.

- 1 Surgeon S10V28 See Note 10B5
2 Dermatologist (skin doctor)
3 Psychiatrist, psychologist, or counselor
4 Urologist (specialist of the urinary tract and male reproductive system)
5 Orthopedist (specialist of the bones, muscles, and their connected tissues)
6 Ear, nose, and throat
7 Cardiologist (heart doctor)
8 Rheumatologist (specialist of the joints)
9 Endocrinologist (thyroid, hormone, and diabetes specialist)
10 Oncologist (cancer specialist)
11 Ophthalmologist
12 Allergist
13 Obstetrician/Gynecologist
14 Other _____

46. In the last 12 months, how much of a problem was it to find a specialist from the TRICARE civilian provider network?

- 1 A big problem S10V07 See Notes 10B5, 10B6
2 A small problem
3 Not a problem → *Go to Question 48*
-6 I did not need to find a specialist in the civilian network → *Go to Question 48*

47. What problems did you encounter in finding a network specialist?

MARK ALL THAT APPLY.

- A Travel distance too long S10V12A-S10V12H See Notes 10B5, 10B6
H Doctor's location inconvenient
B Communicating with doctor(s)
C Doctor(s) not taking new patients
D Did not like doctor(s)
E Wait for an appointment was too long
F Could not find information about doctors
G Other _____

48. In the last 12 months, how much of your healthcare did you receive from the TRICARE civilian provider network?

- 1 All of my healthcare S10V01
2 Most of my healthcare See Note 10B7
3 Some of my healthcare
4 None of my healthcare
-6 I did not need healthcare in the last 12 months → *Go to Question 52*

49. In the last 12 months, how much of a problem was it to get the healthcare you wanted from the TRICARE civilian provider network?

- 1 A big problem S10V02 See Note 10B7
2 A small problem
3 Not a problem
-6 I did not try to get healthcare from the civilian network

50. In the last 12 months, did you learn that a doctor whom you wanted to see had left the TRICARE civilian provider network?

- 1 Yes S10V05 See Note 10B7
2 No
-6 I did not want to see any network providers

51. In the last 12 months, have you been told that a doctor you wanted to see was not seeing TRICARE patients or not seeing new TRICARE patients?

- 1 Yes, not seeing TRICARE patients
2 Yes, not seeing new TRICARE patients
3 No S10V09 See Note 10B7

52. In general, how would you rate your overall mental or emotional health?

- 1 Excellent S10B01
2 Very good
3 Good
4 Fair
5 Poor

53. In the last 12 months, did you need any treatment or counseling for a personal or family problem?

- 1 Yes
2 No → *Go to Question 56* S10B02 See Note 10A1

54. In the last 12 months, how much of a problem, if any, was it to get the treatment or counseling you needed through your health plan?

- 1 A big problem S10B03 See Note 10A1
2 A small problem
3 Not a problem

55. Using any number from 0 to 10, where 0 is the worst treatment or counseling possible and 10 is the best treatment or counseling possible, what number would you use to rate your treatment or counseling in the last 12 months?
- 0 0 Worst treatment or counseling possible
 1 1
 2 2 S10B04
 3 3 See Note 10A1
 4 4
 5 5
 6 6
 7 7
 8 8
 9 9
 10 10 Best treatment or counseling possible
 -6 I had no treatment or counseling in the last 12 months

YOUR HEALTH PLAN

The next questions ask about your experience with your health plan. By your health plan, we mean the health plan you marked in Question 3.

56. In the last 12 months, did you try to get any kind of care, tests, or treatment through your health plan?
- 1 Yes H10032 See Note 11
 2 No → [Go to Question 58](#)
57. In the last 12 months, how often was it easy to get the care, tests or treatment you thought you needed through your health plan?
- 1 Never H10033
 2 Sometimes See Note 11
 3 Usually
 4 Always
 -6 I didn't need care, tests or treatment through my health plan in the last 12 months
58. In the last 12 months, did you look for any information in written materials or on the Internet about how your health plan works?
- 1 Yes H10034B See Note 11B
 2 No → [Go to Question 60](#)
59. In the last 12 months, how often did the written material or the Internet provide the information you needed about how your plan works?
- 1 Never H10034
 2 Sometimes See Note 11B
 3 Usually
 4 Always
 -6 I didn't look for information from my health plan in the last 12 months

60. Sometimes people need services or equipment beyond what is provided in a regular or routine office visit, such as care from a specialist, physical therapy, a hearing aid, or oxygen.
- In the last 12 months, did you look for information from your health plan on how much you would have to pay for a health care service or equipment?
- 1 Yes H10035 See Note 12
 2 No → [Go to Question 62](#)
61. In the last 12 months, how often were you able to find out from your health plan how much you would have to pay for a health care service or equipment?
- 1 Never H10036
 2 Sometimes See Note 12
 3 Usually
 4 Always
 -6 I didn't need a health care service or equipment from my health plan in the last 12 months
62. In some health plans, the amount you pay for a prescription medicine can be different for different medicines, or can be different for prescriptions filled by mail instead of at the pharmacy.
- In the last 12 months, did you look for information from your health plan on how much you would have to pay for specific prescription medicines?
- 1 Yes H10037 See Note 13
 2 No → [Go to Question 64](#)
63. In the last 12 months, how often were you able to find out from your health plan how much you would have to pay for specific prescription medications?
- 1 Never H10038
 2 Sometimes See Note 13
 3 Usually
 4 Always
 -6 I didn't need prescription medications from my health plan in the last 12 months
64. In the last 12 months, did you try to get information or help from your health plan's customer service?
- 1 Yes H10039 See Note 14
 2 No → [Go to Question 67](#)
65. In the last 12 months, how often did your health plan's customer service give you the information or help you needed?
- 1 Never H10040
 2 Sometimes See Note 14
 3 Usually
 4 Always
 -6 I didn't call my health plan's customer service in the last 12 months

66. In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect?

- 1 Never H10041
- 2 Sometimes
- 3 Usually See Note 14
- 4 Always
- 6 I didn't call my health plan's customer service in the last 12 months

67. In the last 12 months, did your health plan give you any forms to fill out?

- 1 Yes H10042 See Note 15
- 2 No → [Go to Question 69](#)

68. In the last 12 months, how often were the forms from your health plan easy to fill out?

- 1 Never H10043
- 2 Sometimes See Note 15
- 3 Usually
- 4 Always
- 6 I didn't have any experiences with paperwork for my health plan in the last 12 months

69. Claims are sent to a health plan for payment. You may send in the claims yourself, or doctors, hospitals, or others may do this for you. In the last 12 months, did you or anyone else send in any claims to your health plan?

- 1 Yes
 - 2 No → [Go to Question 72](#)
 - 5 Don't know → [Go to Question 72](#)
- H10044

See Note 16

70. In the last 12 months, how often did your health plan handle your claims quickly?

- 1 Never H10045
- 2 Sometimes See Note 16
- 3 Usually
- 4 Always
- 5 Don't know
- 6 No claims were sent for me in the last 12 months

71. In the last 12 months, how often did your health plan handle your claims correctly?

- 1 Never H10046
- 2 Sometimes See Note 16
- 3 Usually
- 4 Always
- 5 Don't know
- 6 No claims were sent for me in the last 12 months

72. Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?

- 0 0 Worst health plan possible
- 1 1
- 2 2 H10047
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best health plan possible

PREVENTIVE CARE

Preventive care is medical care you receive that is intended to maintain your good health or prevent a future medical problem. A physical or blood pressure screening are examples of preventive care.

73. When did you last have a blood pressure reading?

- 3 Less than 12 months ago H10048
- 2 1 to 2 years ago
- 1 More than 2 years ago

74. Do you know if your blood pressure is too high?

- 1 Yes, it is too high H10049
- 2 No, it is not too high
- 3 Don't know

75. When did you last have a flu shot?

- 4 Less than 12 months ago H10050
- 3 1-2 years ago
- 2 More than 2 years ago
- 1 Never had a flu shot

76. Have you ever smoked at least 100 cigarettes in your entire life?

- 1 Yes H10051 See Note 17
- 2 No → [Go to Question 81](#)
- 5 Don't know → [Go to Question 81](#)

77. Do you now smoke cigarettes every day, some days or not at all?

- 4 Every day → [Go to Question 78](#)
 - 3 Some days → [Go to Question 78](#)
 - 2 Not at all → [Go to Question 81](#)
 - 5 Don't know → [Go to Question 81](#)
- H10052

See Note 17

78. In the last 12 months, on how many visits were you advised to quit smoking by a doctor or other health provider in your plan?

- 1 None
- 2 1 visit
- 3 2 to 4 visits
- 4 5 to 9 visits
- 5 10 or more visits
- 6 I had no visits in the last 12 months

H10053
See Notes 17, 18

79. On how many visits was medication recommended or discussed to assist you with quitting smoking (for example: nicotine gum, patch, nasal spray, inhaler, prescription medication)?

- 1 None
- 2 1 visit
- 3 2 to 4 visits
- 4 5 to 9 visits
- 5 10 or more visits
- 6 I had no visits in the last 12 months

H10054
See Notes 17, 18

80. On how many visits did your doctor or health provider recommend or discuss methods and strategies (other than medication) to assist you with quitting smoking?

- 1 None
- 2 1 visit
- 3 2 to 4 visits
- 4 5 to 9 visits
- 5 10 or more visits
- 6 I had no visits in the last 12 months

H10055
See Notes 17, 18

81. Do you currently smoke any tobacco products other than cigarettes, such as cigars, pipes, bidis, kreteks, or any other tobacco product?

Note: Bidis are small, brown, hand-rolled cigarettes from India and other southeast Asian countries. Kreteks are clove cigarettes made in Indonesia that contain clove extract and tobacco.

- 1 Yes
- 2 No
- 5 Don't know

S10D03

82. Do you currently use smokeless tobacco products such as dip, chewing tobacco, snuff or snus every day, some days, or not at all?

- 1 Every day
- 2 Some days
- 3 Not at all

S10D02

83. Are you male or female?

- 1 Male →
- 2 Female

H10056 See Note 19A
Go to Question 90

84. When did you last have a Pap smear test?

- 5 Within the last 12 months
- 4 1 to 3 years ago
- 3 More than 3 but less than 5 years ago
- 2 5 or more years ago
- 1 Never had a Pap smear test

H10057 See Notes 19A & 19B

85. Are you under age 40?

- 1 Yes → Go to Question 87
- 2 No

See Notes 19A, 19B & 20
H10058

86. When was the last time your breasts were checked by mammography?

- 5 Within the last 12 months
- 4 1 to 2 years ago
- 3 More than 2 years ago but less than 5 years ago
- 2 5 or more years ago
- 1 Never had a mammogram

H10059 See Notes 19A, 19B & 20

87. Have you been pregnant in the last 12 months or are you pregnant now?

- 1 Yes, I am currently pregnant → Go to Question 88
- 2 No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 89
- 3 No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 90

H10060 See Notes 19A, 19B & 21

88. In what trimester is your pregnancy?

- 1 First trimester (up to 12 weeks after 1st day of last period) → Go to Question 90
- 2 Second trimester (13th through 27th week)
- 3 Third trimester (28th week until delivery)

H10061 See Notes 19A, 19B & 21

89. In which trimester did you first receive prenatal care?

- 4 First trimester (up to 12 weeks after 1st day of last period)
- 3 Second trimester (13th through 27th week)
- 2 Third trimester (28th week until delivery)
- 1 Did not receive prenatal care

H10062 See Notes 19A, 19B & 21

ABOUT YOU

90. In general, how would you rate your overall health?

- 5 Excellent
- 4 Very good
- 3 Good
- 2 Fair
- 1 Poor

H10063

91. Are you limited in any way in any activities because of any impairment or health problem?

- 1 Yes
2 No

H10064

92. In the last 12 months, have you seen a doctor or other health provider 3 or more times for the same condition or problem?

- 1 Yes
2 No

H10065

See Note 22

→ Go to Question 94

93. Is this a condition or problem that has lasted for at least 3 months? Do not include pregnancy or menopause.

- 1 Yes
2 No

H10066

See Note 22

94. Do you now need or take medicine prescribed by a doctor? Do not include birth control.

- 1 Yes
2 No

H10067

See Note 23

→ Go to Question 96

95. Is this medicine to treat a condition that has lasted for at least 3 months? Do not include pregnancy or menopause.

- 1 Yes
2 No

H10068

See Note 23

96. How tall are you without your shoes on? H10069F, H10069I

Please give your answer in feet and inches.

Example:

Height	
Feet	Inches
<u>5</u>	<u>6</u>
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input checked="" type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

Your answer:

Height	
Feet	Inches
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

97. How much do you weigh without your shoes on?

Please give your answer in pounds.

H10070

Example:

Weight		
Pounds		
<u>1</u>	<u>6</u>	<u>0</u>
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> 0
<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input checked="" type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

Your Answer:

Weight		
Pounds		
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

98. What is the highest grade or level of school that you have completed?

SREDA

- 1 8th grade or less
2 Some high school, but did not graduate
3 High school graduate or GED
4 Some college or 2-year degree
5 4-year college graduate
6 More than 4-year college degree

99. Are you of Hispanic or Latino origin or descent?

(Mark "NO" if not Spanish/Hispanic/Latino.)

See Note 24

- A No, not Spanish, Hispanic, or Latino
B Yes, Mexican, Mexican American, Chicano
C Yes, Puerto Rican
D Yes, Cuban
E Yes, other Spanish, Hispanic, or Latino

H10071A- H10071E, H10071

100. What is your race?

(Mark ONE OR MORE races to indicate what you consider yourself to be.)

SRRACEA-SRRACEE

- A White
B Black or African American
C American Indian or Alaska Native
D Asian (e.g., Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)
E Native Hawaiian or other Pacific Islander (e.g., Samoan, Guamanian, or Chamorro)

101. What is your age now?

- 1 18 to 24
- 2 25 to 34
- 3 35 to 44
- 4 45 to 54
- 5 55 to 64
- 6 65 to 74
- 7 75 or older

SRAGE

102. Currently, are you covered by Medicare Part A? *Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part A helps pay for inpatient hospital care.*

H10072

- 1 Yes, I am now covered by Medicare Part A
- 2 No, I am not covered by Medicare Part A

103. Currently, are you covered by Medicare Part B? *Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part B helps pay for doctor's services, outpatient hospital services, and certain other services.*

H10073

- 1 Yes, I am now covered by Medicare Part B
- 2 No, I am not covered by Medicare Part B

104. Currently, are you covered by Medicare supplemental insurance? *Medicare supplemental insurance, also called Medigap or MediSup, is usually obtained from private insurance companies and covers some of the costs not paid for by Medicare.*

H10074

- 1 Yes, I am now covered by Medicare supplemental insurance
- 2 No, I am not covered by Medicare supplemental insurance

105. Using a scale of 1 to 5, with 1 being "strongly disagree" and 5 being "strongly agree", how much do you agree with the following statement: In general, I am able to see my provider(s) when needed?

S10011

- 1 1 Strongly disagree
- 2 2 Disagree
- 3 3 Neither agree nor disagree
- 4 4 Agree
- 5 5 Strongly agree

106. Using a scale of 1 to 5, with 1 being "completely dissatisfied" and 5 being "completely satisfied", how satisfied are you, overall, with the health care you received during your last visit?

S10014

- 1 1 Completely dissatisfied
- 2 2 Somewhat dissatisfied
- 3 3 Neither satisfied nor dissatisfied
- 4 4 Somewhat satisfied
- 5 5 Completely satisfied

THANK YOU FOR TAKING THE TIME TO COMPLETE THE SURVEY! Your generous contribution will greatly aid efforts to improve the health of our military community.

Return your survey in the postage-paid envelope. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs)
TMA/HPAE
c/o Synovate Survey Processing Center
PO Box 5030
Chicago, IL 60680-4138

Questions about the survey?

Email: survey-dodq2@synovate.net

Toll-free phone (in the US, Puerto Rico and Canada):
1-877-236-2390, available 24 hours a day
Toll-free fax (in the US and Canada): 1-800-409-7681

International Toll-Free numbers:

Germany: 0 800 182 1532
Great Britain: 008 234 7139
Japan: 0053 11 30 814
South Korea: 003 0813 1286
Mexico: 001 877 238 5171
Philippines: 1 800 1116 2366

When calling or writing, please provide your 8-digit ID number printed in blue on the letter accompanying this survey.

Questions about your TRICARE coverage?

For additional information on TRICARE, or if you are not sure about your benefits, or if you don't have a primary care manager; contact the TRICARE Service Center in your region:

North: 1-877-874-2273
South: 1-800-444-5445
West: 1-888-874-9378
Outside the US: 1-888-777-8343

The website is:

www.tricare.osd.mil/tricare-servicecenters

Veterans: Contact the US Department of Veterans Affairs at
1-877-222-VETS; or go to www.va.gov

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APPENDIX A

ANNOTATED QUESTIONNAIRE – QUARTER III

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Health Care Survey of DoD Beneficiaries

April 2010



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SURVEY STARTS HERE

As an eligible TRICARE beneficiary, please complete this survey even if you did not receive your health care from a military facility.

Please recognize that some specific questions about TRICARE benefits may not apply to you, depending on your entitlement and particular TRICARE program.

This survey is about the health care of the person whose name appears on the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to that person.

According to the Privacy Act of 1974 (5 U.S.C. §552a), the Department of Defense is required to inform you of the purposes and use of this survey. Please read it carefully.

Authority: 10 U.S.C. §1074 (Medical and Dental Care for Members and Certain Former Members, as amended by National Defense Authorization Act of 1993, Public Law 102-484, §706); 10 U.S.C. §1074f (Medical Tracking System for Members Deployed Overseas); 32 C.F.R. §199.17 (TRICARE Program); 45 C.F.R. Part 160 Subparts A and E of Part 164 (Health Insurance Portability and Accountability Act of 1996, Privacy Rule); DoD 6025.18-R (Department of Defense Health Information Privacy Regulation); DoD 6025.13-R (Military Health System Clinical Quality Assurance Program Regulation); 64 FR 22837 (DHA 08 – Health Affairs Survey Data Base, April 28, 1999); and, E.O. 9397 (as amended, November 20, 2008, for SSN collection).

Purpose: This survey helps health policy makers gauge beneficiary satisfaction with the current military health care system and provides valuable input from beneficiaries that will be used to improve the Military Health System.

Routine Uses: None.

Disclosure: Participation is voluntary. Failure to respond will not result in any penalty to the respondent. However, maximum participation is encouraged so that data will be as complete and representative as possible.

YOUR PRIVACY
Your participation in this survey effort is very important. Your responses are confidential and your participation is voluntary. The number on the back of this survey is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

This is your opportunity to tell officials of your opinions and experiences with the current military health care system. It is also an opportunity to provide feedback and identify areas where improvements are needed.

The survey processing center removes all identifying information before sending the results to the Department of Defense.

Your information is grouped with others and no individual information is shared. Only group statistics will be compiled and reported. No information about you as an individual will be disclosed.

SURVEY INSTRUCTIONS

Answer all the questions by checking the box to the left of your answer. You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

- Yes → **Go to Question 42**
- No

Please return the completed questionnaire in the enclosed postage-paid envelope within **seven days**. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs)
 TMA/HPAE
 c/o Synovate Survey Processing Center
 PO Box 5030
 Chicago, IL 60680-4138

1. Are you the person whose name appears on the cover letter?

Percent of Responses*

- 99.6% 1 Yes →
- 0.4% 2 No →

H10001

Go to Question 2

Please give this questionnaire to the person addressed on the cover letter.

2. By which of the following health plans are you currently covered?

MARK ALL THAT APPLY.

H10002A-H10002R

Military Health Plans

- 48.9% A TRICARE Prime (including TRICARE Prime Remote and TRICARE Overseas)
- 14.7% C TRICARE Extra or Standard (CHAMPUS)
- 1.7% N TRICARE Plus
- 25.4% O TRICARE for Life
- 1.5% P TRICARE Supplemental Insurance
- 2.1% Q TRICARE Reserve Select

Other Health Plans

- 26.9% F Medicare
- 3.0% G Federal Employees Health Benefit Program (FEHBP)
- 1.3% H Medicaid
- 2.4% I A civilian HMO (such as Kaiser)
- 10.1% J Other civilian health insurance (such as Blue Cross)
- 0.9% K Uniformed Services Family Health Plan (USFHP)
- 7.0% M The Veterans Administration (VA)
- 0.4% R Government health insurance from a country other than the US
- 7.0% L Not sure

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

3. Which health plan did you use for all or most of your health care in the last 12 months?

Percent of Responses*

- MARK ONLY ONE ANSWER.**
- | | | | | |
|-------|----|--------------------------|--|------------|
| 46.6% | 1 | <input type="checkbox"/> | TRICARE Prime | H10003 |
| 9.2% | 3 | <input type="checkbox"/> | TRICARE Extra or Standard (CHAMPUS) | |
| 0.9% | 11 | <input type="checkbox"/> | TRICARE Plus | See Note 1 |
| 1.3% | 12 | <input type="checkbox"/> | TRICARE Reserve Select | |
| 22.4% | 4 | <input type="checkbox"/> | Medicare (may include TRICARE for Life) | |
| 2.3% | 5 | <input type="checkbox"/> | Federal Employees Health Benefit Program (FEHBP) | |
| 0.4% | 6 | <input type="checkbox"/> | Medicaid | |
| 2.1% | 7 | <input type="checkbox"/> | A civilian HMO (such as Kaiser) | |
| 7.1% | 8 | <input type="checkbox"/> | Other civilian health insurance (such as Blue Cross) | |
| 0.6% | 9 | <input type="checkbox"/> | Uniformed Services Family Health Plan (USFHP) | |
| 3.8% | 10 | <input type="checkbox"/> | The Veterans Administration (VA) | |
| 0.4% | 13 | <input type="checkbox"/> | Government health insurance from a country other than the US | |
| 3.0% | -5 | <input type="checkbox"/> | Not sure | |
| | -6 | <input type="checkbox"/> | Did not use any health plan in the last 12 months → Go to Question 5 | |

For the remainder of this questionnaire, the term health plan refers to the plan you indicated in Question 3.

4. How many months or years in a row have you been in this health plan?

- | | | | | |
|-------|---|--------------------------|--------------------|------------|
| 1.8% | 1 | <input type="checkbox"/> | Less than 6 months | H10004 |
| 6.9% | 2 | <input type="checkbox"/> | 6 up to 12 months | |
| 9.7% | 3 | <input type="checkbox"/> | 12 up to 24 months | See Note 1 |
| 20.6% | 4 | <input type="checkbox"/> | 2 up to 5 years | |
| 21.7% | 5 | <input type="checkbox"/> | 5 up to 10 years | |
| 39.3% | 6 | <input type="checkbox"/> | 10 or more years | |

YOUR HEALTH CARE IN THE LAST 12 MONTHS

These questions ask about your own health care. Do not include care you got when you stayed overnight in a hospital. Do not include the times you went for dental care visits.

5. In the last 12 months, where did you go most often for your health care?

Percent of Responses*

- MARK ONLY ONE ANSWER.**
- | | | | | |
|-------|---|--------------------------|--|--------|
| 34.8% | 1 | <input type="checkbox"/> | A military facility – This includes: Military clinic, Military hospital, PRIMUS clinic, NAVCARE clinic | H10005 |
| 55.7% | 2 | <input type="checkbox"/> | A civilian facility – This includes: Doctor's office, Clinic, Hospital, Civilian TRICARE contractor | |
| 0.7% | 3 | <input type="checkbox"/> | Uniformed Services Family Health Plan facility (USFHP) | |
| 4.6% | 4 | <input type="checkbox"/> | Veterans Affairs (VA) clinic or hospital | |
| 4.2% | 5 | <input type="checkbox"/> | I went to none of the listed types of facilities in the last 12 months | |

6. In the last 12 months, did you have an illness, injury, or condition that needed care right away in a clinic, emergency room, or doctor's office?

- | | | | | | |
|-------|---|--------------------------|---------------------------------------|--------|------------|
| 44.7% | 1 | <input type="checkbox"/> | Yes | H10006 | See Note 2 |
| 55.3% | 2 | <input type="checkbox"/> | No → Go to Question 9 | | |

7. In the last 12 months, when you needed care right away, how often did you get care as soon as you thought you needed?

Percent of Responses*

- | | | | | |
|-------|----|--------------------------|---|------------|
| 2.5% | 1 | <input type="checkbox"/> | Never | H10007 |
| 12.2% | 2 | <input type="checkbox"/> | Sometimes | |
| 23.8% | 3 | <input type="checkbox"/> | Usually | See Note 2 |
| 61.4% | 4 | <input type="checkbox"/> | Always | |
| | -6 | <input type="checkbox"/> | I didn't need care right away for an illness, injury or condition in the last 12 months | |

8. In the last 12 months, when you needed care right away for an illness, injury, or condition, how long did you usually have to wait between trying to get care and actually seeing a provider?

- | | | | | |
|-------|----|--------------------------|---|------------|
| 62.2% | 1 | <input type="checkbox"/> | Same day | H10008 |
| 14.0% | 2 | <input type="checkbox"/> | 1 day | |
| 7.9% | 3 | <input type="checkbox"/> | 2 days | See Note 2 |
| 4.4% | 4 | <input type="checkbox"/> | 3 days | |
| 6.4% | 5 | <input type="checkbox"/> | 4-7 days | |
| 2.7% | 6 | <input type="checkbox"/> | 8-14 days | |
| 2.4% | 7 | <input type="checkbox"/> | 15 days or longer | |
| | -6 | <input type="checkbox"/> | I didn't need care right away for an illness, injury or condition in the last 12 months | |

9. In the last 12 months, not counting the times you needed health care right away, did you make any appointments for your health care at a doctor's office or clinic?

- | | | | | | |
|-------|---|--------------------------|--|--------|------------|
| 85.3% | 1 | <input type="checkbox"/> | Yes | H10009 | See Note 3 |
| 14.7% | 2 | <input type="checkbox"/> | No → Go to Question 12 | | |

10. In the last 12 months, not counting times you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?

- | | | | | |
|-------|----|--------------------------|---|------------|
| 3.0% | 1 | <input type="checkbox"/> | Never | H10010 |
| 14.9% | 2 | <input type="checkbox"/> | Sometimes | |
| 31.0% | 3 | <input type="checkbox"/> | Usually | See Note 3 |
| 51.1% | 4 | <input type="checkbox"/> | Always | |
| | -6 | <input type="checkbox"/> | I had no appointments in the last 12 months | |

11. In the last 12 months, not counting the times you needed health care right away, how many days did you usually have to wait between making an appointment and actually seeing a provider?

- | | | | | |
|-------|----|--------------------------|---|------------|
| 10.5% | 1 | <input type="checkbox"/> | Same day | H10011 |
| 12.8% | 2 | <input type="checkbox"/> | 1 day | |
| 25.2% | 3 | <input type="checkbox"/> | 2-3 days | See Note 3 |
| 22.6% | 4 | <input type="checkbox"/> | 4-7 days | |
| 14.7% | 5 | <input type="checkbox"/> | 8-14 days | |
| 10.3% | 6 | <input type="checkbox"/> | 15-30 days | |
| 3.9% | 7 | <input type="checkbox"/> | 31 days or longer | |
| | -6 | <input type="checkbox"/> | I had no appointments in the last 12 months | |

12. In the last 12 months, how many times did you go to an emergency room to get care for yourself?

Percent of Responses*	Response	Code
72.1%	1 <input type="checkbox"/> None	H10012
17.7%	2 <input type="checkbox"/> 1	
6.2%	3 <input type="checkbox"/> 2	
2.2%	4 <input type="checkbox"/> 3	
0.9%	5 <input type="checkbox"/> 4	
0.7%	6 <input type="checkbox"/> 5 to 9	
0.2%	7 <input type="checkbox"/> 10 or more	

13. In the last 12 months (not counting times you went to an emergency room), how many times did you go to a doctor's office or clinic to get health care for yourself?

Percent of Responses*	Response	Action	Code
12.7%	1 <input type="checkbox"/> None	→ Go to Question 19	
9.8%	2 <input type="checkbox"/> 1		H10013
15.7%	3 <input type="checkbox"/> 2		
15.1%	4 <input type="checkbox"/> 3		See Note 4
14.7%	5 <input type="checkbox"/> 4		
20.8%	6 <input type="checkbox"/> 5 to 9		
11.2%	7 <input type="checkbox"/> 10 or more		

14. In the last 12 months, how often did you and a doctor or other health provider talk about specific things you could do to prevent illness?

Percent of Responses*	Response	Code
15.2%	1 <input type="checkbox"/> Never	H10014
29.2%	2 <input type="checkbox"/> Sometimes	See Note 4
29.6%	3 <input type="checkbox"/> Usually	
26.1%	4 <input type="checkbox"/> Always	

15. Choices for your treatment or health care can include choices about medicine, surgery, or other treatment. In the last 12 months, did a doctor or other health provider tell you there was more than one choice for your treatment or health care?

Percent of Responses*	Response	Code	Action
54.6%	1 <input type="checkbox"/> Yes	H10015	See Notes 4,5
45.4%	2 <input type="checkbox"/> No		→ Go to Question 18

16. In the last 12 months, did a doctor or other health provider talk with you about the pros and cons of each choice for your treatment or health care?

Percent of Responses*	Response	Code
64.2%	1 <input type="checkbox"/> Definitely yes	H10016
31.1%	2 <input type="checkbox"/> Somewhat yes	See Notes 4,5
3.5%	3 <input type="checkbox"/> Somewhat no	
1.1%	4 <input type="checkbox"/> Definitely no	

17. In the last 12 months, when there was more than one choice for your treatment or health care, did a doctor or other health provider ask which choice you thought was best for you?

Percent of Responses*	Response	Code
53.9%	1 <input type="checkbox"/> Definitely yes	H10017
34.6%	2 <input type="checkbox"/> Somewhat yes	
6.9%	3 <input type="checkbox"/> Somewhat no	See Notes 4,5
4.6%	4 <input type="checkbox"/> Definitely no	

18. Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?

Percent of Responses*	Response	Code
0.4%	0 <input type="checkbox"/> 0 Worst health care possible	
0.3%	1 <input type="checkbox"/> 1	H10018
0.8%	2 <input type="checkbox"/> 2	
1.7%	3 <input type="checkbox"/> 3	See Note 4
2.1%	4 <input type="checkbox"/> 4	
6.0%	5 <input type="checkbox"/> 5	
5.2%	6 <input type="checkbox"/> 6	
12.7%	7 <input type="checkbox"/> 7	
22.1%	8 <input type="checkbox"/> 8	
19.3%	9 <input type="checkbox"/> 9	
29.5%	10 <input type="checkbox"/> 10 Best health care possible	
-6	<input type="checkbox"/> I had no visits in the last 12 months	

19. In the last 12 months, did you have a health problem for which you needed special medical equipment, such as a cane, a wheelchair, or oxygen equipment?

Percent of Responses*	Response	Code	Action
14.6%	1 <input type="checkbox"/> Yes	S10C09	See Note 5A1
85.4%	2 <input type="checkbox"/> No		→ Go to Question 21

20. In the last 12 months, how much of a problem, if any, was it to get the special medical equipment you needed through your health plan?

Percent of Responses*	Response	Code
5.6%	1 <input type="checkbox"/> A big problem	S10C10
13.6%	2 <input type="checkbox"/> A small problem	See Note 5A1
80.9%	3 <input type="checkbox"/> Not a problem	
-6	<input type="checkbox"/> I didn't need to get any special medical equipment in the last 12 months	

21. In the last 12 months, did you have any health problems that needed special therapy, such as physical, occupational, or speech therapy?

Percent of Responses*	Response	Code	Action
19.2%	1 <input type="checkbox"/> Yes	S10C11	
80.8%	2 <input type="checkbox"/> No		→ Go to Question 23
			See Note 5A2

22. In the last 12 months, how much of a problem, if any, was it to get the special therapy you needed through your health plan?

Percent of Responses*	Response	Code
8.4%	1 <input type="checkbox"/> A big problem	S10C12
15.2%	2 <input type="checkbox"/> A small problem	See Note 5A2
76.3%	3 <input type="checkbox"/> Not a problem	
-6	<input type="checkbox"/> I didn't need any special therapy in the last 12 months	

23. Home health care or assistance means home nursing, help with bathing or dressing, and help with basic household tasks.

Percent of Responses*	Response	Code	Action
		S10C13	See Note 5A3
			In the last 12 months, <u>did you need someone to come into your home</u> to give you home health care or assistance?
4.0%	1 <input type="checkbox"/> Yes		
96.0%	2 <input type="checkbox"/> No		→ Go to Question 25

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

24. In the last 12 months, how much of a problem, if any, was it to get the home health care you needed through your health plan?
- Percent of Responses*
- | | | | | |
|-------|----|--------------------------|--|--------------|
| 11.6% | 1 | <input type="checkbox"/> | A big problem | S10C14 |
| 15.7% | 2 | <input type="checkbox"/> | A small problem | See Note 5A3 |
| 72.8% | 3 | <input type="checkbox"/> | Not a problem | |
| | -6 | <input type="checkbox"/> | I didn't need home health care or assistance in the last 12 months | |

YOUR PERSONAL DOCTOR

25. A personal doctor is the one you would see if you need a checkup, want advice about a health problem, or get sick or hurt. Do you have a personal doctor?
- Percent of Responses*
- | | | | | | |
|-------|---|--------------------------|-----|---------------------|---------------|
| 74.0% | 1 | <input type="checkbox"/> | Yes | H10019 | See Note 6_q3 |
| 26.0% | 2 | <input type="checkbox"/> | No | → Go to Question 42 | |

26. Is this person a general doctor, a specialist doctor, a physician assistant, or a nurse?
- Percent of Responses*
- | | | | | |
|-------|----|--------------------------|---|---------------|
| 85.4% | 1 | <input type="checkbox"/> | General doctor (Family practice or internal medicine) | S10C01 |
| 6.7% | 2 | <input type="checkbox"/> | Specialist doctor | See Note 6_q3 |
| 6.2% | 3 | <input type="checkbox"/> | Physician assistant | |
| 1.7% | 4 | <input type="checkbox"/> | Nurse | |
| | -6 | <input type="checkbox"/> | I don't have a personal doctor or nurse | |

27. How many months or years have you been going to your personal doctor or nurse?
- Percent of Responses*
- | | | | | | |
|-------|----|--------------------------|---|--------|---------------|
| 11.0% | 1 | <input type="checkbox"/> | Less than 6 months | S10C02 | See Note 6_q3 |
| 10.3% | 2 | <input type="checkbox"/> | At least 6 months but less than 1 year | | |
| 12.8% | 3 | <input type="checkbox"/> | At least 1 year but less than 2 years | | |
| 23.8% | 4 | <input type="checkbox"/> | At least 2 years but less than 5 years | | |
| 42.1% | 5 | <input type="checkbox"/> | 5 years or more | | |
| | -6 | <input type="checkbox"/> | I don't have a personal doctor or nurse | | |

28. Do you have a physical or medical condition that seriously interferes with your ability to work, attend school, or manage your day-to-day activities?
- Percent of Responses*
- | | | | | | |
|-------|---|--------------------------|-----|---------------------|---------------------|
| 26.1% | 1 | <input type="checkbox"/> | Yes | S10C03 | See Notes 6_q3, 6A1 |
| 73.9% | 2 | <input type="checkbox"/> | No | → Go to Question 30 | |

29. Does your personal doctor or nurse understand how any health problems you have affect your day-to-day life?
- Percent of Responses*
- | | | | | | |
|-------|----|--------------------------|---|--------|---------------------|
| 92.1% | 1 | <input type="checkbox"/> | Yes | S10C04 | See Notes 6_q3, 6A1 |
| 7.9% | 2 | <input type="checkbox"/> | No | | |
| | -6 | <input type="checkbox"/> | I don't have any health problems or I don't have a personal doctor or nurse | | |

30. In the last 12 months, how many times did you visit your personal doctor to get care for yourself?
- Percent of Responses*
- | | | | | | |
|-------|---|--------------------------|------------|---------------------|------------------|
| 8.6% | 0 | <input type="checkbox"/> | None | → Go to Question 40 | |
| 12.3% | 1 | <input type="checkbox"/> | 1 | | |
| 21.2% | 2 | <input type="checkbox"/> | 2 | | |
| 17.4% | 3 | <input type="checkbox"/> | 3 | H10020 | See Notes 6_q3,7 |
| 16.5% | 4 | <input type="checkbox"/> | 4 | | |
| 18.7% | 5 | <input type="checkbox"/> | 5 to 9 | | |
| 5.4% | 6 | <input type="checkbox"/> | 10 or more | | |

31. In the last 12 months, how often did your personal doctor listen carefully to you?
- Percent of Responses*
- | | | | | | |
|-------|----|--------------------------|---------------------------------------|--------|------------------|
| 0.8% | 1 | <input type="checkbox"/> | Never | H10021 | See Notes 6_q3,7 |
| 5.7% | 2 | <input type="checkbox"/> | Sometimes | | |
| 21.0% | 3 | <input type="checkbox"/> | Usually | | |
| 72.5% | 4 | <input type="checkbox"/> | Always | | |
| | -6 | <input type="checkbox"/> | I had no visits in the last 12 months | | |

32. In the last 12 months, how often did your personal doctor explain things in a way that was easy to understand?
- Percent of Responses*
- | | | | | | |
|-------|----|--------------------------|---------------------------------------|--------|------------------|
| 0.7% | 1 | <input type="checkbox"/> | Never | H10022 | See Notes 6_q3,7 |
| 4.2% | 2 | <input type="checkbox"/> | Sometimes | | |
| 21.9% | 3 | <input type="checkbox"/> | Usually | | |
| 73.1% | 4 | <input type="checkbox"/> | Always | | |
| | -6 | <input type="checkbox"/> | I had no visits in the last 12 months | | |

33. In the last 12 months, how often did your personal doctor show respect for what you had to say?
- Percent of Responses*
- | | | | | | |
|-------|----|--------------------------|---------------------------------------|--------|------------------|
| 0.8% | 1 | <input type="checkbox"/> | Never | H10023 | See Notes 6_q3,7 |
| 4.7% | 2 | <input type="checkbox"/> | Sometimes | | |
| 17.6% | 3 | <input type="checkbox"/> | Usually | | |
| 76.9% | 4 | <input type="checkbox"/> | Always | | |
| | -6 | <input type="checkbox"/> | I had no visits in the last 12 months | | |

34. In the last 12 months, how often did your personal doctor spend enough time with you?
- Percent of Responses*
- | | | | | | |
|-------|----|--------------------------|---------------------------------------|--------|------------------|
| 1.9% | 1 | <input type="checkbox"/> | Never | H10024 | See Notes 6_q3,7 |
| 7.2% | 2 | <input type="checkbox"/> | Sometimes | | |
| 27.2% | 3 | <input type="checkbox"/> | Usually | | |
| 63.6% | 4 | <input type="checkbox"/> | Always | | |
| | -6 | <input type="checkbox"/> | I had no visits in the last 12 months | | |

35. In the last 12 months, did you get care from a doctor or other health provider besides your personal doctor?
- Percent of Responses*
- | | | | | | |
|-------|---|--------------------------|-----|---------------------|----------------------|
| 74.4% | 1 | <input type="checkbox"/> | Yes | H10025 | See Notes 6_q3,7 & 8 |
| 25.6% | 2 | <input type="checkbox"/> | No | → Go to Question 37 | |

36. In the last 12 months, how often did your personal doctor seem informed and up-to-date about the care you got from these doctors or other health providers?
- Percent of Responses*
- | | | | | | |
|-------|---|--------------------------|-----------|--------|----------------------|
| 8.1% | 1 | <input type="checkbox"/> | Never | H10026 | See Notes 6_q3,7 & 8 |
| 13.7% | 2 | <input type="checkbox"/> | Sometimes | | |
| 32.4% | 3 | <input type="checkbox"/> | Usually | | |
| 45.9% | 4 | <input type="checkbox"/> | Always | | |

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits or care you got when you stayed overnight in a hospital.

37. We want to know how you, your doctors, and other health providers make decisions about your health care.
- In the last 12 months, were any decisions made about your health care?
- | | | | | | |
|-----------------------|---|--------------------------|-----|-------------------------------------|---------------------|
| Percent of Responses* | 1 | <input type="checkbox"/> | Yes | S10C06 | See Notes 6_q3, 8B1 |
| 65.9% | 2 | <input type="checkbox"/> | No | → Go to Question 40 | |
| 34.1% | | | | | |

38. In the last 12 months, how often were you involved as much as you wanted in these decisions about your health care?
- | | | | | | |
|-----------------------|----|--------------------------|---|--------|---------------------|
| Percent of Responses* | 1 | <input type="checkbox"/> | Never | S10C07 | See Notes 6_q3, 8B1 |
| 1.1% | 2 | <input type="checkbox"/> | Sometimes | | |
| 5.5% | 3 | <input type="checkbox"/> | Usually | | |
| 19.2% | 4 | <input type="checkbox"/> | Always | | |
| 74.2% | -6 | <input type="checkbox"/> | No decisions were made about my health care in the last 12 months | | |

39. In the last 12 months, how often was it easy to get your doctors or other health providers to agree with you on the best way to manage your health conditions or problems?
- | | | | | | |
|-----------------------|----|--------------------------|---|--------|---------------------|
| Percent of Responses* | 1 | <input type="checkbox"/> | Never | S10C08 | See Notes 6_q3, 8B1 |
| 2.0% | 2 | <input type="checkbox"/> | Sometimes | | |
| 10.4% | 3 | <input type="checkbox"/> | Usually | | |
| 42.0% | 4 | <input type="checkbox"/> | Always | | |
| 45.6% | -6 | <input type="checkbox"/> | No decisions were made about my health care in the last 12 months | | |

40. Using any number from 0 to 10, where 0 is the worst personal doctor possible and 10 is the best personal doctor possible, what number would you use to rate your personal doctor?
- | | | | | | |
|-----------------------|----|--------------------------|----------------------------------|--------|---------------|
| Percent of Responses* | 0 | <input type="checkbox"/> | 0 Worst personal doctor possible | | |
| 0.4% | 1 | <input type="checkbox"/> | 1 | | |
| 0.3% | 2 | <input type="checkbox"/> | 2 | H10027 | |
| 0.5% | 3 | <input type="checkbox"/> | 3 | | See Note 6_q3 |
| 0.9% | 4 | <input type="checkbox"/> | 4 | | |
| 0.9% | 5 | <input type="checkbox"/> | 5 | | |
| 5.0% | 6 | <input type="checkbox"/> | 6 | | |
| 4.2% | 7 | <input type="checkbox"/> | 7 | | |
| 8.9% | 8 | <input type="checkbox"/> | 8 | | |
| 18.3% | 9 | <input type="checkbox"/> | 9 | | |
| 23.2% | 10 | <input type="checkbox"/> | 10 Best personal doctor possible | | |
| 37.2% | -6 | <input type="checkbox"/> | I don't have a personal doctor | | |

41. Did you have the same personal doctor or nurse before you joined this health plan?
- | | | | | | |
|-----------------------|---|--------------------------|-----|---------------------|-------------------------------------|
| Percent of Responses* | 1 | <input type="checkbox"/> | Yes | S10009 | → Go to Question 43 |
| 32.4% | 2 | <input type="checkbox"/> | No | See Notes 6_q3, 8A1 | |
| 67.6% | | | | | |

42. Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?
- | | | | | | |
|-----------------------|---|--------------------------|-----------------|--------|--------------|
| Percent of Responses* | 1 | <input type="checkbox"/> | A big problem | S10010 | |
| 11.6% | 2 | <input type="checkbox"/> | A small problem | | See Note 8A1 |
| 21.7% | 3 | <input type="checkbox"/> | Not a problem | | |
| 66.7% | | | | | |

43. Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and other doctors who specialize in one area of health care.

- In the last 12 months, did you try to make any appointments to see a specialist?
- | | | | | | |
|-----------------------|---|--------------------------|-----|-------------------------------------|------------|
| Percent of Responses* | 1 | <input type="checkbox"/> | Yes | H10028 | See Note 9 |
| 56.4% | 2 | <input type="checkbox"/> | No | → Go to Question 48 | |
| 43.6% | | | | | |

44. In the last 12 months, how often was it easy to get appointments with specialists?
- | | | | | | |
|-----------------------|----|--------------------------|--|--------|------------|
| Percent of Responses* | 1 | <input type="checkbox"/> | Never | H10029 | |
| 5.6% | 2 | <input type="checkbox"/> | Sometimes | | See Note 9 |
| 13.4% | 3 | <input type="checkbox"/> | Usually | | |
| 29.2% | 4 | <input type="checkbox"/> | Always | | |
| 51.8% | -6 | <input type="checkbox"/> | I didn't need a specialist in the last 12 months | | |

45. How many specialists have you seen in the last 12 months?
- | | | | | | |
|-----------------------|---|--------------------------|-----------------------|-------------------------------------|-------------------|
| Percent of Responses* | 0 | <input type="checkbox"/> | None | → Go to Question 48 | |
| 2.9% | 1 | <input type="checkbox"/> | 1 specialist | | |
| 43.7% | 2 | <input type="checkbox"/> | 2 | H10030 | |
| 29.8% | 3 | <input type="checkbox"/> | 3 | | See Notes 9,10_q3 |
| 14.0% | 4 | <input type="checkbox"/> | 4 | | |
| 6.3% | 5 | <input type="checkbox"/> | 5 or more specialists | | |
| 3.3% | | | | | |

46. In the last 12 months, how many times did you go to specialists for care for yourself?
- | | | | | | |
|-----------------------|---|--------------------------|------------|--------|-------------------|
| Percent of Responses* | 1 | <input type="checkbox"/> | 1 | S10C05 | See Notes 9,10_q3 |
| 19.4% | 2 | <input type="checkbox"/> | 2 | | |
| 23.3% | 3 | <input type="checkbox"/> | 3 | | |
| 15.4% | 4 | <input type="checkbox"/> | 4 | | |
| 13.4% | 5 | <input type="checkbox"/> | 5 to 9 | | |
| 19.9% | 6 | <input type="checkbox"/> | 10 or more | | |
| 8.6% | | | | | |

47. We want to know your rating of the specialist you saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate the specialist?
- | | | | | | |
|-----------------------|----|--------------------------|---|--|-------------------|
| Percent of Responses* | 0 | <input type="checkbox"/> | 0 Worst specialist possible | | |
| 0.5% | 1 | <input type="checkbox"/> | 1 | | |
| 0.5% | 2 | <input type="checkbox"/> | 2 | | H10031 |
| 0.4% | 3 | <input type="checkbox"/> | 3 | | |
| 1.1% | 4 | <input type="checkbox"/> | 4 | | See Notes 9,10_q3 |
| 1.1% | 5 | <input type="checkbox"/> | 5 | | |
| 3.5% | 6 | <input type="checkbox"/> | 6 | | |
| 3.7% | 7 | <input type="checkbox"/> | 7 | | |
| 8.7% | 8 | <input type="checkbox"/> | 8 | | |
| 19.3% | 9 | <input type="checkbox"/> | 9 | | |
| 23.2% | 10 | <input type="checkbox"/> | 10 Best specialist possible | | |
| 38.1% | -6 | <input type="checkbox"/> | I didn't see a specialist in the last 12 months | | |

48. In general, how would you rate your overall mental or emotional health?
- Percent of Responses* S10B01
- | | | | |
|-------|---|--------------------------|-----------|
| 40.9% | 1 | <input type="checkbox"/> | Excellent |
| 31.2% | 2 | <input type="checkbox"/> | Very good |
| 18.4% | 3 | <input type="checkbox"/> | Good |
| 7.7% | 4 | <input type="checkbox"/> | Fair |
| 1.8% | 5 | <input type="checkbox"/> | Poor |
49. In the last 12 months, did you need any treatment or counseling for a personal or family problem?
- | | | | | | |
|-------|---|--------------------------|-----|-------------------------------------|---------------|
| 16.4% | 1 | <input type="checkbox"/> | Yes | S10B02 | See Note 10A1 |
| 83.6% | 2 | <input type="checkbox"/> | No | → Go to Question 52 | |
50. In the last 12 months, how much of a problem, if any, was it to get the treatment or counseling you needed through your health plan?
- | | | | | | |
|-------|---|--------------------------|-----------------|--------|---------------|
| 9.2% | 1 | <input type="checkbox"/> | A big problem | S10B03 | See Note 10A1 |
| 15.2% | 2 | <input type="checkbox"/> | A small problem | | |
| 75.6% | 3 | <input type="checkbox"/> | Not a problem | | |
51. Using any number from 0 to 10, where 0 is the worst treatment or counseling possible and 10 is the best treatment or counseling possible, what number would you use to rate your treatment or counseling in the last 12 months?
- | | | | | | |
|-------|----|--------------------------|--|--------|---------------|
| 2.1% | 0 | <input type="checkbox"/> | 0 Worst treatment or counseling possible | | |
| 0.9% | 1 | <input type="checkbox"/> | 1 | S10B04 | |
| 1.4% | 2 | <input type="checkbox"/> | 2 | | |
| 2.2% | 3 | <input type="checkbox"/> | 3 | | |
| 2.8% | 4 | <input type="checkbox"/> | 4 | | See Note 10A1 |
| 9.4% | 5 | <input type="checkbox"/> | 5 | | |
| 6.1% | 6 | <input type="checkbox"/> | 6 | | |
| 10.0% | 7 | <input type="checkbox"/> | 7 | | |
| 15.5% | 8 | <input type="checkbox"/> | 8 | | |
| 19.0% | 9 | <input type="checkbox"/> | 9 | | |
| 30.6% | 10 | <input type="checkbox"/> | 10 Best treatment or counseling possible | | |
| | -6 | <input type="checkbox"/> | I had no treatment or counseling in the last 12 months | | |

YOUR HEALTH PLAN

The next questions ask about your experience with your health plan. By your health plan, we mean the health plan you marked in Question 3.

52. In the last 12 months, did you try to get any kind of care, tests, or treatment through your health plan?
- Percent of Responses* H10032 See Note 11
- | | | | | | |
|-------|---|--------------------------|-----|-------------------------------------|--|
| 68.2% | 1 | <input type="checkbox"/> | Yes | | |
| 31.8% | 2 | <input type="checkbox"/> | No | → Go to Question 54 | |

53. In the last 12 months, how often was it easy to get the care, tests or treatment you thought you needed through your health plan?
- Percent of Responses* H10033 See Note 11
- | | | | | | |
|-------|----|--------------------------|---|--|--|
| 2.5% | 1 | <input type="checkbox"/> | Never | | |
| 8.5% | 2 | <input type="checkbox"/> | Sometimes | | |
| 27.1% | 3 | <input type="checkbox"/> | Usually | | |
| 61.9% | 4 | <input type="checkbox"/> | Always | | |
| | -6 | <input type="checkbox"/> | I didn't need care, tests or treatment through my health plan in the last 12 months | | |
54. In the last 12 months, did you look for any information in written materials or on the Internet about how your health plan works?
- | | | | | | |
|-------|---|--------------------------|-----|-------------------------------------|--------------|
| 27.2% | 1 | <input type="checkbox"/> | Yes | H10034B | See Note 11B |
| 72.8% | 2 | <input type="checkbox"/> | No | → Go to Question 56 | |
55. In the last 12 months, how often did the written material or the Internet provide the information you needed about how your plan works?
- | | | | | | |
|-------|----|--------------------------|---|--|--------------|
| 5.9% | 1 | <input type="checkbox"/> | Never | | H10034 |
| 24.0% | 2 | <input type="checkbox"/> | Sometimes | | See Note 11B |
| 46.4% | 3 | <input type="checkbox"/> | Usually | | |
| 23.7% | 4 | <input type="checkbox"/> | Always | | |
| | -6 | <input type="checkbox"/> | I didn't look for information from my health plan in the last 12 months | | |
56. Sometimes people need services or equipment beyond what is provided in a regular or routine office visit, such as care from a specialist, physical therapy, a hearing aid, or oxygen. In the last 12 months, did you look for information from your health plan on how much you would have to pay for a health care service or equipment?
- | | | | | | |
|-------|---|--------------------------|-----|-------------------------------------|-------------|
| 13.5% | 1 | <input type="checkbox"/> | Yes | H10035 | See Note 12 |
| 86.5% | 2 | <input type="checkbox"/> | No | → Go to Question 58 | |
57. In the last 12 months, how often were you able to find out from your health plan how much you would have to pay for a health care service or equipment?
- | | | | | | |
|-------|----|--------------------------|--|--|-------------|
| 25.2% | 1 | <input type="checkbox"/> | Never | | H10036 |
| 16.8% | 2 | <input type="checkbox"/> | Sometimes | | See Note 12 |
| 28.6% | 3 | <input type="checkbox"/> | Usually | | |
| 29.4% | 4 | <input type="checkbox"/> | Always | | |
| | -6 | <input type="checkbox"/> | I didn't need a health care service or equipment from my health plan in the last 12 months | | |
58. In some health plans, the amount you pay for a prescription medicine can be different for different medicines, or can be different for prescriptions filled by mail instead of at the pharmacy. In the last 12 months, did you look for information from your health plan on how much you would have to pay for specific prescription medicines?
- | | | | | | |
|-------|---|--------------------------|-----|-------------------------------------|-------------|
| 29.4% | 1 | <input type="checkbox"/> | Yes | H10037 | See Note 13 |
| 70.6% | 2 | <input type="checkbox"/> | No | → Go to Question 60 | |

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

59. In the last 12 months, how often were you able to find out from your health plan how much you would have to pay for specific prescription medications?

Percent of Responses*

22.0%	1	<input type="checkbox"/>	Never	H10038
12.0%	2	<input type="checkbox"/>	Sometimes	
22.3%	3	<input type="checkbox"/>	Usually	See Note 13
43.8%	4	<input type="checkbox"/>	Always	
	6	<input type="checkbox"/>	I didn't need prescription medications from my health plan in the last 12 months	

60. In the last 12 months, did you try to get information or help from your health plan's customer service?

24.3%	1	<input type="checkbox"/>	Yes	H10039	See Note 14
75.7%	2	<input type="checkbox"/>	No	→ Go to Question 63	

61. In the last 12 months, how often did your health plan's customer service give you the information or help you needed?

6.8%	1	<input type="checkbox"/>	Never	H10040
16.7%	2	<input type="checkbox"/>	Sometimes	See Note 14
28.5%	3	<input type="checkbox"/>	Usually	
48.0%	4	<input type="checkbox"/>	Always	
	6	<input type="checkbox"/>	I didn't call my health plan's customer service in the last 12 months	

62. In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect?

2.3%	1	<input type="checkbox"/>	Never	H10041
7.2%	2	<input type="checkbox"/>	Sometimes	
22.9%	3	<input type="checkbox"/>	Usually	See Note 14
67.7%	4	<input type="checkbox"/>	Always	
	6	<input type="checkbox"/>	I didn't call my health plan's customer service in the last 12 months	

63. In the last 12 months, did your health plan give you any forms to fill out?

24.1%	1	<input type="checkbox"/>	Yes	H10042	See Note 15
75.9%	2	<input type="checkbox"/>	No	→ Go to Question 65	

64. In the last 12 months, how often were the forms from your health plan easy to fill out?

3.7%	1	<input type="checkbox"/>	Never	H10043
12.2%	2	<input type="checkbox"/>	Sometimes	See Note 15
45.4%	3	<input type="checkbox"/>	Usually	
38.8%	4	<input type="checkbox"/>	Always	
	6	<input type="checkbox"/>	I didn't have any experiences with paperwork for my health plan in the last 12 months	

65. Claims are sent to a health plan for payment. You may send in the claims yourself, or doctors, hospitals, or others may do this for you. In the last 12 months, did you or anyone else send in any claims to your health plan?

48.0%	1	<input type="checkbox"/>	Yes	H10044	See Note 16
34.0%	2	<input type="checkbox"/>	No	→ Go to Question 68	
18.0%	5	<input type="checkbox"/>	Don't know	→ Go to Question 68	

66. In the last 12 months, how often did your health plan handle your claims quickly?

Percent of Responses*

2.3%	1	<input type="checkbox"/>	Never	H10045
6.4%	2	<input type="checkbox"/>	Sometimes	See Note 16
30.1%	3	<input type="checkbox"/>	Usually	
48.0%	4	<input type="checkbox"/>	Always	
13.2%	5	<input type="checkbox"/>	Don't know	
	6	<input type="checkbox"/>	No claims were sent for me in the last 12 months	

67. In the last 12 months, how often did your health plan handle your claims correctly?

1.1%	1	<input type="checkbox"/>	Never	H10046
5.4%	2	<input type="checkbox"/>	Sometimes	See Note 16
26.8%	3	<input type="checkbox"/>	Usually	
54.6%	4	<input type="checkbox"/>	Always	
12.1%	5	<input type="checkbox"/>	Don't know	
	6	<input type="checkbox"/>	No claims were sent for me in the last 12 months	

68. Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?

0.6%	0	<input type="checkbox"/>	0	Worst health plan possible
0.3%	1	<input type="checkbox"/>	1	
0.6%	2	<input type="checkbox"/>	2	
1.4%	3	<input type="checkbox"/>	3	
1.7%	4	<input type="checkbox"/>	4	
6.8%	5	<input type="checkbox"/>	5	
6.1%	6	<input type="checkbox"/>	6	
12.7%	7	<input type="checkbox"/>	7	
20.2%	8	<input type="checkbox"/>	8	
19.1%	9	<input type="checkbox"/>	9	
30.5%	10	<input type="checkbox"/>	10	Best health plan possible

PREVENTIVE CARE

Preventive care is medical care you receive that is intended to maintain your good health or prevent a future medical problem. A physical or blood pressure screening are examples of preventive care.

69. When did you last have a blood pressure reading?

Percent of Responses*

92.5%	3	<input type="checkbox"/>	Less than 12 months ago	H10048
5.5%	2	<input type="checkbox"/>	1 to 2 years ago	
2.0%	1	<input type="checkbox"/>	More than 2 years ago	

70. Do you know if your blood pressure is too high?

18.3%	1	<input type="checkbox"/>	Yes, it is too high	H10049
75.7%	2	<input type="checkbox"/>	No, it is not too high	
6.0%	3	<input type="checkbox"/>	Don't know	

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

71. For a blood stool test, a person uses a home kit and puts some stool on a card. The card is sent to the doctor's office or lab. Have you ever had this test using a home kit?

Percent of Responses*

32.6% 1 Yes S10Q01 See Note 16A1

66.2% 2 No → [Go to Question 73](#)

1.2% -5 Don't know → [Go to Question 73](#)

72. How long has it been since you had your last blood stool test using a home kit?

S10Q02 See Note 16A1

26.5% 1 Less than 12 months ago

21.3% 2 At least one year but less than 2 years ago

27.7% 3 At least 2 year but less than 5 years ago

21.8% 4 5 or more years ago

-6 Never had a blood stool test

2.8% -5 Don't know

73. Sigmoidoscopy and colonoscopy are exams in which a lighted tube is inserted in the rectum to view the colon for signs of cancer or other health problems. Have you ever had either of these exams?

44.2% 1 Yes S10Q03 See Note 16A2

54.9% 2 No → [Go to Question 76](#)

0.9% -5 Don't know → [Go to Question 76](#)

74. A sigmoidoscopy is limited to the lower part of the colon and is usually done without anesthesia. How long has it been since you had your last sigmoidoscopy?

9.2% 1 Less than 12 months ago S10Q04

13.1% 2 At least one year but less than 2 years ago

25.1% 3 At least 2 year but less than 5 years ago

40.4% 4 5 or more years ago

-6 Never had a sigmoidoscopy See Note 16A2

12.2% -5 Don't know

75. For a colonoscopy the entire colon is examined and patients usually receive medication in their veins to relax them and make them feel sleepy. How long has it been since you had your last colonoscopy?

S10Q05 See Note 16A2

18.8% 1 Less than 12 months ago

19.5% 2 At least one year but less than 2 years ago

38.9% 3 At least 2 year but less than 5 years ago

21.0% 4 5 or more years ago

-6 Never had a colonoscopy

1.8% -5 Don't know

76. When did you last have a flu shot?

H10050

67.5% 4 Less than 12 months ago

8.3% 3 1-2 years ago

12.4% 2 More than 2 years ago

11.8% 1 Never had a flu shot

77. Have you ever smoked at least 100 cigarettes in your entire life?

Percent of Responses*

43.1% 1 Yes H10051 See Note 17

55.8% 2 No → [Go to Question 82](#)

1.0% -5 Don't know → [Go to Question 82](#)

78. Do you now smoke cigarettes every day, some days or not at all?

H10052 See Note 17

24.6% 4 Every day → [Go to Question 79](#)

9.5% 3 Some days → [Go to Question 79](#)

65.8% 2 Not at all → [Go to Question 82](#)

0.1% -5 Don't know → [Go to Question 82](#)

79. In the last 12 months, on how many visits were you advised to quit smoking by a doctor or other health provider in your plan?

H10053

25.7% 1 None See Notes 17, 18

18.0% 2 1 visit

35.1% 3 2 to 4 visits

11.4% 4 5 to 9 visits

9.8% 5 10 or more visits

-6 I had no visits in the last 12 months

80. On how many visits was medication recommended or discussed to assist you with quitting smoking (for example: nicotine gum, patch, nasal spray, inhaler, prescription medication)?

H10054

50.9% 1 None See Notes 17, 18

19.0% 2 1 visit

21.4% 3 2 to 4 visits

4.8% 4 5 to 9 visits

4.0% 5 10 or more visits

-6 I had no visits in the last 12 months

81. On how many visits did your doctor or health provider recommend or discuss methods and strategies (other than medication) to assist you with quitting smoking?

H10055

52.2% 1 None See Notes 17, 18

19.6% 2 1 visit

19.3% 3 2 to 4 visits

5.2% 4 5 to 9 visits

3.8% 5 10 or more visits

-6 I had no visits in the last 12 months

82. Do you currently smoke any tobacco products other than cigarettes, such as cigars, pipes, bidis, kreteks, or any other tobacco product?

Note: Bidis are small, brown, hand-rolled cigarettes from India and other southeast Asian countries. Kreteks are clove cigarettes made in Indonesia that contain clove extract and tobacco.

S10D03

4.3% 1 Yes

95.5% 2 No

0.1% -5 Don't know

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

83. Do you currently use smokeless tobacco products such as dip, chewing tobacco, snuff or snus every day, some days, or not at all? S10D02
- Percent of Responses*
- 2.2% 1 Every day
- 2.3% 2 Some days
- 95.5% 3 Not at all
84. If you use tobacco products other than cigarettes, on how many visits in the last 12 months were you advised to quit by a doctor or other health provider in your plan? S10D05
- 79.7% 1 None
- 7.7% 2 1 visit
- 9.3% 3 2 to 4 visits
- 2.0% 4 5 to 9 visits
- 1.3% 5 10 or more visits
- 6 I had no visits in the last 12 months
- 3 I do not use other tobacco products
85. Are you male or female? H10056 See Note 19A
- 50.7% 1 Male → [Go to Question 92](#)
- 49.3% 2 Female
86. When did you last have a Pap smear test? H10057
- 53.5% 5 Within the last 12 months
- 25.8% 4 1 to 3 years ago See Notes 19A & 19B
- 5.2% 3 More than 3 but less than 5 years ago
- 11.8% 2 5 or more years ago
- 3.7% 1 Never had a Pap smear test
87. Are you under age 40? H10058
- 37.1% 1 Yes → [Go to Question 89](#)
- 62.9% 2 No See Notes 19A, 19B & 20
88. When was the last time your breasts were checked by mammography? H10059 See Notes 19A, 19B & 20
- 62.1% 5 Within the last 12 months
- 20.7% 4 1 to 2 years ago
- 7.3% 3 More than 2 years ago but less than 5 years ago
- 5.5% 2 5 or more years ago
- 4.4% 1 Never had a mammogram
89. Have you been pregnant in the last 12 months or are you pregnant now? H10060 See Notes 19A, 19B, & 21
- 2.8% 1 Yes, I am currently pregnant → [Go to Question 90](#)
- 7.5% 2 No, I am not currently pregnant, but have been pregnant in the past 12 months → [Go to Question 91](#)
- 89.7% 3 No, I am not currently pregnant, and have not been pregnant in the past 12 months → [Go to Question 92](#)

90. In what trimester is your pregnancy? H10061 See Notes 19A, 19B, & 21
- 22.8% 1 First trimester (up to 12 weeks after 1st day of last period) → [Go to Question 92](#)
- 37.5% 2 Second trimester (13th through 27th week)
- 39.7% 3 Third trimester (28th week until delivery)
91. In which trimester did you first receive prenatal care? H10062 See Notes 19A, 19B, & 21
- 87.5% 4 First trimester (up to 12 weeks after 1st day of last period)
- 8.3% 3 Second trimester (13th through 27th week)
- 0.6% 2 Third trimester (28th week until delivery)
- 3.7% 1 Did not receive prenatal care

ABOUT YOU

92. In general, how would you rate your overall health? H10063
- Percent of Responses*
- 18.7% 5 Excellent
- 38.1% 4 Very good
- 31.0% 3 Good
- 10.0% 2 Fair
- 2.2% 1 Poor
93. Are you limited in any way in any activities because of any impairment or health problem? H10064 See Note 21A1
- 28.7% 1 Yes
- 71.3% 2 No → [Go to Question 96](#)
94. Because of any impairment or health problem, do you need the help of other persons with your personal care needs, such as eating, dressing, or getting around the house? S10C15
- 10.7% 1 Yes
- 89.3% 2 No See Note 21A1
95. Because of any impairment or health problem, do you need help with your routine needs, such as everyday household chores, doing necessary business, shopping, or getting around for other purposes? S10C16
- 26.0% 1 Yes
- 74.0% 2 No See Note 21A1
96. Do you have a physical or medical condition that seriously interferes with your independence, participation in the community, or quality of life? S10C17
- 12.0% 1 Yes
- 88.0% 2 No

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

97. We want to know your rating of how well your health plan has done in providing the equipment, services, and help you need.

Using any number from 0 to 10, where 0 is the worst your plan could do and 10 is the best your plan could do, what number would you use to rate your health plan now?

Percent of Responses*

- 0.7% 0 0 Worst your health plan could do
- 0.3% 1 1 S10C18
- 0.7% 2 2
- 1.2% 3 3
- 1.4% 4 4
- 6.8% 5 5
- 5.3% 6 6
- 12.1% 7 7
- 20.5% 8 8
- 20.7% 9 9
- 30.4% 10 10 Best your health plan could do

98. In the last 12 months, have you been a patient in a hospital overnight or longer?

- 13.9% 1 Yes
- 86.1% 2 No

S10C19

99. In the last 12 months, have you seen a doctor or other health provider 3 or more times for the same condition or problem?

- 47.0% 1 Yes
- 53.0% 2 No

H10065

See Note 22

→ [Go to Question 101](#)

100. Is this a condition or problem that has lasted for at least 3 months? Do not include pregnancy or menopause.

- 78.5% 1 Yes
- 21.5% 2 No

H10066

See Note 22

101. Do you now need or take medicine prescribed by a doctor? Do not include birth control.

- 64.7% 1 Yes
- 35.3% 2 No

H10067

See Note 23

→ [Go to Question 103](#)

102. Is this medicine to treat a condition that has lasted for at least 3 months? Do not include pregnancy or menopause.

- 92.4% 1 Yes
- 7.6% 2 No

H10068

See Note 23

103. How tall are you without your shoes on?

Please give your answer in feet and inches. Percent of Responses* 97.6%

Example:

Height	
Feet	Inches
5	6
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input checked="" type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

Your answer:

Height	
Feet	Inches
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

H10069F, H10069I

104. How much do you weigh without your shoes on?

Please give your answer in pounds.

H10070

Example:

Weight		
Pounds		
1	6	0
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> 0
<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input checked="" type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

Your Answer:

Weight		
Pounds		
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

Percent of Responses* 97.0%

105. What is the highest grade or level of school that you have completed?

Percent of Responses*

- 0.9% 1 8th grade or less
- 2.5% 2 Some high school, but did not graduate
- 25.1% 3 High school graduate or GED
- 41.3% 4 Some college or 2-year degree
- 14.1% 5 4-year college graduate
- 16.2% 6 More than 4-year college degree

SREDA

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

106. Are you of Hispanic or Latino origin or descent?

Percent of Responses*

(Mark "NO" if not Spanish/Hispanic/Latino.)

See Note 24

- 88.8% A No, not Spanish, Hispanic, or Latino
- 3.3% B Yes, Mexican, Mexican American, Chicano
- 2.0% C Yes, Puerto Rican H10071A- H10071E, H10071
- 0.2% D Yes, Cuban
- 2.9% E Yes, other Spanish, Hispanic, or Latino

107. What is your race?

(Mark ONE OR MORE races to indicate what you consider yourself to be.)

- 79.8% A White SRRACEA-SRRACEE
- 10.5% B Black or African American
- 2.2% C American Indian or Alaska Native
- 6.2% D Asian (e.g., Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)
- 1.1% E Native Hawaiian or other Pacific Islander (e.g., Samoan, Guamanian, or Chamorro)

108. What is your age now?

- 15.2% 1 18 to 24 SRAGE
- 16.4% 2 25 to 34
- 11.9% 3 35 to 44
- 11.8% 4 45 to 54
- 18.5% 5 55 to 64
- 14.4% 6 65 to 74
- 11.8% 7 75 or older

109. Currently, are you covered by Medicare Part A? *Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part A helps pay for inpatient hospital care.*

H10072

- 28.2% 1 Yes, I am now covered by Medicare Part A
- 71.8% 2 No, I am not covered by Medicare Part A

110. Currently, are you covered by Medicare Part B? *Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part B helps pay for doctor's services, outpatient hospital services, and certain other services.*

H10073

- 27.3% 1 Yes, I am now covered by Medicare Part B
- 72.7% 2 No, I am not covered by Medicare Part B

111. Currently, are you covered by Medicare supplemental insurance? *Medicare supplemental insurance, also called Medigap or MediSup, is usually obtained from private insurance companies and covers some of the costs not paid for by Medicare.*

Percent of Responses*

H10074

- 6.1% 1 Yes, I am now covered by Medicare supplemental insurance
- 93.9% 2 No, I am not covered by Medicare supplemental insurance

112. Using a scale of 1 to 5, with 1 being "strongly disagree" and 5 being "strongly agree", how much do you agree with the following statement: In general, I am able to see my provider(s) when needed?

S10011

- 3.9% 1 1 Strongly disagree
- 4.4% 2 2 Disagree
- 9.9% 3 3 Neither agree nor disagree
- 43.7% 4 4 Agree
- 38.0% 5 5 Strongly agree

113. Using a scale of 1 to 5, with 1 being "completely dissatisfied" and 5 being "completely satisfied", how satisfied are you, overall, with the health care you received during your last visit?

S10014

- 3.1% 1 1 Completely dissatisfied
- 4.4% 2 2 Somewhat dissatisfied
- 7.0% 3 3 Neither satisfied nor dissatisfied
- 26.3% 4 4 Somewhat satisfied
- 59.1% 5 5 Completely satisfied

THANK YOU FOR TAKING THE TIME TO COMPLETE THE SURVEY! Your generous contribution will greatly aid efforts to improve the health of our military community.

Return your survey in the postage-paid envelope. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs)
TMA/HPAE
c/o Synovate Survey Processing Center
PO Box 5030
Chicago, IL 60680-4138

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

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APPENDIX A

ANNOTATED QUESTIONNAIRE – QUARTER IV

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According to the Privacy Act of 1974 (5 U.S.C. §552a), the Department of Defense is required to inform you of the purposes and use of this survey. Please read it carefully.

Authority: 10 U.S.C. §1074 (Medical and Dental Care for Members and Certain Former Members, as amended by National Defense Authorization Act of 1993, Public Law 102-484, §706); 10 U.S.C. §1074f (Medical Tracking System for Members Deployed Overseas); 32 C.F.R. §199.17 (TRICARE Program); 45 C.F.R. Part 160 Subparts A and E of Part 164 (Health Insurance Portability and Accountability Act of 1996, Privacy Rule); DoD 6025.18-R (Department of Defense Health Information Privacy Regulation); DoD 6025.13-R (Military Health System Clinical Quality Assurance Program Regulation); 64 FR 22837 (DHA 08 – Health Affairs Survey Data Base, April 28, 1999); and, E.O. 9397 (as amended, November 20, 2008, for SSN collection).

Purpose: This survey helps health policy makers gauge beneficiary satisfaction with the current military health care system and provides valuable input from beneficiaries that will be used to improve the Military Health System.

Routine Uses: None.

Disclosure: Participation is voluntary. Failure to respond will not result in any penalty to the respondent. However, maximum participation is encouraged so that data will be as complete and representative as possible.

YOUR PRIVACY

Your participation in this survey effort is very important. Your responses are confidential and your participation is voluntary. The number on the back of this survey is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

This is your opportunity to tell officials of your opinions and experiences with the current military health care system. It is also an opportunity to provide feedback and identify areas where improvements are needed.

The survey processing center removes all identifying information before sending the results to the Department of Defense.

Your information is grouped with others and no individual information is shared. Only group statistics will be compiled and reported. No information about you as an individual will be disclosed.

SURVEY INSTRUCTIONS

Answer all the questions by checking the box to the left of your answer. You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

- Yes → **Go to Question 42**
- No

Please return the completed questionnaire in the enclosed postage-paid envelope within **seven days**. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs)
 TMA/HPAE
 c/o Synovate Survey Processing Center
 PO Box 5030
 Chicago, IL 60680-4138

As an eligible TRICARE beneficiary, please complete this survey even if you did not receive your health care from a military facility.

Please recognize that some specific questions about TRICARE benefits may not apply to you, depending on your entitlement and particular TRICARE program.

This survey is about the health care of the person whose name appears on the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to that person.

1. Are you the person whose name appears on the cover letter?

H10001

- 1 Yes → **Go to Question 2**
- 2 No → Please give this questionnaire to the person addressed on the cover letter.

2. By which of the following health plans are you currently covered?

H10002A-H10002R

MARK ALL THAT APPLY.

Military Health Plans

- A TRICARE Prime (including TRICARE Prime Remote and TRICARE Overseas)
- C TRICARE Extra or Standard (CHAMPUS)
- N TRICARE Plus
- O TRICARE for Life
- P TRICARE Supplemental Insurance
- Q TRICARE Reserve Select

Other Health Plans

- F Medicare
- G Federal Employees Health Benefit Program (FEHBP)
- H Medicaid
- I A civilian HMO (such as Kaiser)
- J Other civilian health insurance (such as Blue Cross)
- K Uniformed Services Family Health Plan (USFHP)
- M The Veterans Administration (VA)
- R Government health insurance from a country other than the US
- L Not sure

3. Which health plan did you use for all or most of your health care in the last 12 months?

H10003

MARK ONLY ONE ANSWER.

See Note 1

- 1 TRICARE Prime
- 3 TRICARE Extra or Standard (CHAMPUS)
- 11 TRICARE Plus
- 12 TRICARE Reserve Select
- 4 Medicare (may include TRICARE for Life)
- 5 Federal Employees Health Benefit Program (FEHBP)
- 6 Medicaid
- 7 A civilian HMO (such as Kaiser)
- 8 Other civilian health insurance (such as Blue Cross)
- 9 Uniformed Services Family Health Plan (USFHP)
- 10 The Veterans Administration (VA)
- 13 Government health insurance from a country other than the US
- 5 Not sure
- 6 Did not use any health plan in the last 12 months → [Go to Question 5](#)

For the remainder of this questionnaire, the term health plan refers to the plan you indicated in Question 3.

4. How many months or years in a row have you been in this health plan?

H10004

See Note 1

- 1 Less than 6 months
- 2 6 up to 12 months
- 3 12 up to 24 months
- 4 2 up to 5 years
- 5 5 up to 10 years
- 6 10 or more years

YOUR HEALTH CARE IN THE LAST 12 MONTHS

These questions ask about your own health care. Do not include care you got when you stayed overnight in a hospital. Do not include the times you went for dental care visits.

5. In the last 12 months, where did you go most often for your health care?

H10005

MARK ONLY ONE ANSWER.

- 1 A military facility – This includes: Military clinic, Military hospital, PRIMUS clinic, NAVCARE clinic
- 2 A civilian facility – This includes: Doctor's office, Clinic, Hospital, Civilian TRICARE contractor
- 3 Uniformed Services Family Health Plan facility (USFHP)
- 4 Veterans Affairs (VA) clinic or hospital
- 5 I went to none of the listed types of facilities in the last 12 months

6. In the last 12 months, did you have an illness, injury, or condition that needed care right away in a clinic, emergency room, or doctor's office?

H10006

See Note 2

- 1 Yes
- 2 No → [Go to Question 9](#)

7. In the last 12 months, when you needed care right away, how often did you get care as soon as you thought you needed?

H10007

See Note 2

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't need care right away for an illness, injury or condition in the last 12 months

8. In the last 12 months, when you needed care right away for an illness, injury, or condition, how long did you usually have to wait between trying to get care and actually seeing a provider?

H10008

See Note 2

- 1 Same day
- 2 1 day
- 3 2 days
- 4 3 days
- 5 4-7 days
- 6 8-14 days
- 7 15 days or longer
- 6 I didn't need care right away for an illness, injury or condition in the last 12 months

9. In the last 12 months, not counting the times you needed health care right away, did you make any appointments for your health care at a doctor's office or clinic?

1 Yes

2 No → [Go to Question 12](#)

H10009

See Note 3

10. In the last 12 months, not counting times you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?

H10010

See Note 3

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no appointments in the last 12 months

11. In the last 12 months, not counting the times you needed health care right away, how many days did you usually have to wait between making an appointment and actually seeing a provider?

H10011

See Note 3

- 1 Same day
- 2 1 day
- 3 2-3 days
- 4 4-7 days
- 5 8-14 days
- 6 15-30 days
- 7 31 days or longer
- 6 I had no appointments in the last 12 months

12. In the last 12 months, how many times did you go to an emergency room to get care for yourself?

- 1 None
- 2 1
- 3 2
- 4 3
- 5 4
- 6 5 to 9
- 7 10 or more

H10012

13. In the last 12 months (not counting times you went to an emergency room), how many times did you go to a doctor's office or clinic to get health care for yourself?

- 1 None → [Go to Question 19](#)
- 2 1
- 3 2
- 4 3
- 5 4
- 6 5 to 9
- 7 10 or more

H10013

See Note 4

14. In the last 12 months, how often did you and a doctor or other health provider talk about specific things you could do to prevent illness?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

H10014

See Note 4

15. Choices for your treatment or health care can include choices about medicine, surgery, or other treatment. In the last 12 months, did a doctor or other health provider tell you there was more than one choice for your treatment or health care?

- 1 Yes
- 2 No → [Go to Question 18](#)

H10015

See Notes 4,5

16. In the last 12 months, did a doctor or other health provider talk with you about the pros and cons of each choice for your treatment or health care?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

H10016

See Notes 4,5

17. In the last 12 months, when there was more than one choice for your treatment or health care, did a doctor or other health provider ask which choice you thought was best for you?

- 1 Definitely yes
- 2 Somewhat yes
- 3 Somewhat no
- 4 Definitely no

H10017

See Notes 4,5

18. Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?

- 0 0 Worst health care possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best health care possible
- 6 I had no visits in the last 12 months

H10018

See Note 4

YOUR PERSONAL DOCTOR

19. A personal doctor is the one you would see if you need a checkup, want advice about a health problem, or get sick or hurt. Do you have a personal doctor?

- 1 Yes
- 2 No → [Go to Question 29](#)

H10019

See Note 6_q4

20. In the last 12 months, how many times did you visit your personal doctor to get care for yourself?

- 0 None → [Go to Question 27](#)
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5 to 9
- 6 10 or more

H10020

See Notes 6_q4,7

21. In the last 12 months, how often did your personal doctor listen carefully to you?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10021

See Notes 6_q4,7

22. In the last 12 months, how often did your personal doctor explain things in a way that was easy to understand?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10022

See Notes 6_q4,7

23. In the last 12 months, how often did your personal doctor show respect for what you had to say?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10023

See Notes 6_q4,7

24. In the last 12 months, how often did your personal doctor spend enough time with you?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I had no visits in the last 12 months

H10024

See Notes 6_q4,7

25. In the last 12 months, did you get care from a doctor or other health provider besides your personal doctor?

- 1 Yes
- 2 No →

[Go to Question 27](#)

H10025

See Notes 6_q4,7,8

26. In the last 12 months, how often did your personal doctor seem informed and up-to-date about the care you got from these doctors or other health providers?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always

H10026

See Notes 6_q4,7,8

27. Using any number from 0 to 10, where 0 is the worst personal doctor possible and 10 is the best personal doctor possible, what number would you use to rate your personal doctor?

- 0 0 Worst personal doctor possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best personal doctor possible
- 6 I don't have a personal doctor

H10027

See Note 6_q4

28. Did you have the same personal doctor or nurse before you joined this health plan?

- 1 Yes →
- 2 No

[Go to Question 30](#)

S10009

See Notes 6_q4, 8A1

29. Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?

- 1 A big problem
- 2 A small problem
- 3 Not a problem

S10010

See Note 8A1

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits or care you got when you stayed overnight in a hospital.

30. Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and other doctors who specialize in one area of health care.

In the last 12 months, did you try to make any appointments to see a specialist?

- 1 Yes
- 2 No →

[Go to Question 34](#)

H10028

See Note 9

31. In the last 12 months, how often was it easy to get appointments with specialists?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't need a specialist in the last 12 months

H10029

See Note 9

32. How many specialists have you seen in the last 12 months?

- 0 None →
- 1 1 specialist
- 2 2
- 3 3
- 4 4
- 5 5 or more specialists

[Go to Question 34](#)

H10030

See Notes 9, 10

33. We want to know your rating of the specialist you saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate the specialist?

- 0 0 Worst specialist possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best specialist possible
- 6 I didn't see a specialist in the last 12 months

H10031

See Notes 9, 10

34. In general, how would you rate your overall mental or emotional health?
- | | | |
|---|------------------------------------|--------|
| 1 | <input type="checkbox"/> Excellent | S10B01 |
| 2 | <input type="checkbox"/> Very good | |
| 3 | <input type="checkbox"/> Good | |
| 4 | <input type="checkbox"/> Fair | |
| 5 | <input type="checkbox"/> Poor | |
35. In the last 12 months, did you need any treatment or counseling for a personal or family problem?
- | | | |
|---|---|---------------|
| 1 | <input type="checkbox"/> Yes | S10B02 |
| 2 | <input type="checkbox"/> No → Go to Question 38 | |
| | | See Note 10A1 |
36. In the last 12 months, how much of a problem, if any, was it to get the treatment or counseling you needed through your health plan?
- | | | |
|---|--|---------------|
| 1 | <input type="checkbox"/> A big problem | S10B03 |
| 2 | <input type="checkbox"/> A small problem | See Note 10A1 |
| 3 | <input type="checkbox"/> Not a problem | |
37. Using any number from 0 to 10, where 0 is the worst treatment or counseling possible and 10 is the best treatment or counseling possible, what number would you use to rate your treatment or counseling in the last 12 months?
- | | | |
|----|---|---------------|
| 0 | <input type="checkbox"/> 0 Worst treatment or counseling possible | |
| 1 | <input type="checkbox"/> 1 | S10B04 |
| 2 | <input type="checkbox"/> 2 | |
| 3 | <input type="checkbox"/> 3 | See Note 10A1 |
| 4 | <input type="checkbox"/> 4 | |
| 5 | <input type="checkbox"/> 5 | |
| 6 | <input type="checkbox"/> 6 | |
| 7 | <input type="checkbox"/> 7 | |
| 8 | <input type="checkbox"/> 8 | |
| 9 | <input type="checkbox"/> 9 | |
| 10 | <input type="checkbox"/> 10 Best treatment or counseling possible | |
| -6 | <input type="checkbox"/> I had no treatment or counseling in the last 12 months | |

YOUR HEALTH PLAN

The next questions ask about your experience with your health plan. By your health plan, we mean the health plan you marked in Question 3.

38. In the last 12 months, did you try to get any kind of care, tests, or treatment through your health plan?
- | | | |
|---|---|-------------|
| 1 | <input type="checkbox"/> Yes | H10032 |
| 2 | <input type="checkbox"/> No → Go to Question 40 | |
| | | See Note 11 |

39. In the last 12 months, how often was it easy to get the care, tests or treatment you thought you needed through your health plan?
- | | | |
|----|--|-------------|
| 1 | <input type="checkbox"/> Never | H10033 |
| 2 | <input type="checkbox"/> Sometimes | See Note 11 |
| 3 | <input type="checkbox"/> Usually | |
| 4 | <input type="checkbox"/> Always | |
| -6 | <input type="checkbox"/> I didn't need care, tests or treatment through my health plan in the last 12 months | |
40. In the last 12 months, did you look for any information in written materials or on the Internet about how your health plan works?
- | | | |
|---|---|--------------|
| 1 | <input type="checkbox"/> Yes | H10034B |
| 2 | <input type="checkbox"/> No → Go to Question 42 | |
| | | See Note 11B |
41. In the last 12 months, how often did the written material or the Internet provide the information you needed about how your plan works?
- | | | |
|----|--|--------------|
| 1 | <input type="checkbox"/> Never | H10034 |
| 2 | <input type="checkbox"/> Sometimes | See Note 11B |
| 3 | <input type="checkbox"/> Usually | |
| 4 | <input type="checkbox"/> Always | |
| -6 | <input type="checkbox"/> I didn't look for information from my health plan in the last 12 months | |
42. Sometimes people need services or equipment beyond what is provided in a regular or routine office visit, such as care from a specialist, physical therapy, a hearing aid, or oxygen. In the last 12 months, did you look for information from your health plan on how much you would have to pay for a health care service or equipment?
- | | | |
|---|---|-------------|
| 1 | <input type="checkbox"/> Yes | H10035 |
| 2 | <input type="checkbox"/> No → Go to Question 44 | |
| | | See Note 12 |
43. In the last 12 months, how often were you able to find out from your health plan how much you would have to pay for a health care service or equipment?
- | | | |
|----|---|-------------|
| 1 | <input type="checkbox"/> Never | H10036 |
| 2 | <input type="checkbox"/> Sometimes | See Note 12 |
| 3 | <input type="checkbox"/> Usually | |
| 4 | <input type="checkbox"/> Always | |
| -6 | <input type="checkbox"/> I didn't need a health care service or equipment from my health plan in the last 12 months | |
44. In some health plans, the amount you pay for a prescription medicine can be different for different medicines, or can be different for prescriptions filled by mail instead of at the pharmacy. In the last 12 months, did you look for information from your health plan on how much you would have to pay for specific prescription medicines?
- | | | |
|---|---|-------------|
| 1 | <input type="checkbox"/> Yes | H10037 |
| 2 | <input type="checkbox"/> No → Go to Question 46 | |
| | | See Note 13 |

45. In the last 12 months, how often were you able to find out from your health plan how much you would have to pay for specific prescription medications?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't need prescription medications from my health plan in the last 12 months

H10038
See Note 13

46. In the last 12 months, did you try to get information or help from your health plan's customer service?

- 1 Yes
- 2 No → [Go to Question 49](#)

H10039
See Note 14

47. In the last 12 months, how often did your health plan's customer service give you the information or help you needed?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't call my health plan's customer service in the last 12 months

H10040
See Note 14

48. In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't call my health plan's customer service in the last 12 months

H10041
See Note 14

49. In the last 12 months, did your health plan give you any forms to fill out?

- 1 Yes
- 2 No → [Go to Question 51](#)

H10042
See Note 15

50. In the last 12 months, how often were the forms from your health plan easy to fill out?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 6 I didn't have any experiences with paperwork for my health plan in the last 12 months

H10043
See Note 15

51. Claims are sent to a health plan for payment. You may send in the claims yourself, or doctors, hospitals, or others may do this for you. In the last 12 months, did you or anyone else send in any claims to your health plan?

- 1 Yes
- 2 No → [Go to Question 54](#)
- 5 Don't know → [Go to Question 54](#)

H10044
See Note 16

52. In the last 12 months, how often did your health plan handle your claims quickly?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 5 Don't know
- 6 No claims were sent for me in the last 12 months

H10045
See Note 16

53. In the last 12 months, how often did your health plan handle your claims correctly?

- 1 Never
- 2 Sometimes
- 3 Usually
- 4 Always
- 5 Don't know
- 6 No claims were sent for me in the last 12 months

H10046
See Note 16

54. Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?

- 0 0 Worst health plan possible
- 1 1
- 2 2
- 3 3
- 4 4
- 5 5
- 6 6
- 7 7
- 8 8
- 9 9
- 10 10 Best health plan possible

H10047

REFERRALS TO SPECIALISTS

The following questions ask about your experiences getting referrals to specialists. *Specialists* are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and others who specialize in one area of healthcare. Beneficiaries enrolled in TRICARE Prime must get a referral before seeing a specialist, while other health plans may have different requirements.

55. Does the plan you use for all or most of your healthcare require you to get a referral from a doctor in order to see a specialist?

- 1 Yes
2 No → [Go to Question 57](#)

S10R01

See Note 16B1

56. In the last 12 months, did a doctor refer you to a specialist?

- 1 Yes
2 No

S10R02

See Note 16B1

57. In the last 12 months, how did you select the specialist(s) you saw?

MARK ALL THAT APPLY.

- A I did not see a specialist in the last 12 months → [Go to Question 70](#)
B My doctor told me what specialist to see
C I received a suggestion from a friend or relative
D I picked the specialist from a list supplied by TRICARE or my health plan
E I picked the specialist on my own

S10R03A-S10R03E

See Note 16B2

58. In the last 12 months, when you needed to see a specialist, how did you make an appointment?

MARK ALL THAT APPLY.

- A Contacted the appointment line or referral desk
B Called an MTF
C Called my personal doctor's office
D Called the specialist's office
E Asked my personal doctor to make the appointment
F My personal doctor made the appointment for me
G Other

S10R04A-S10R04G

See Note 16B2

59. In the last 12 months, how much of a problem, if any, was it to understand the process you needed to follow to see a specialist?

- 1 A big problem
2 A small problem
3 Not a problem

S10R05

See Note 16B2

60. In the last 12 months, were you referred to any civilian specialists?

- 1 Yes
2 No → [Go to Question 65](#)

S10R06

See Notes 16B2, 16B3

61. How much of a problem, if any, was your wait time to see a civilian specialist?

- 1 A big problem
2 A small problem
3 Not a problem

S10R07

See Notes 16B2, 16B3

62. In the last 12 months, what is the longest time you spent traveling (round-trip) to see a civilian specialist?

- 1 Less than ½ hour
2 ½ hour to less than 1 hour
3 1 hour to less than 2 hours
4 2 hours to less than 4 hours
5 4 hours to less than 8 hours
6 8 hours or more

S10R08

See Notes 16B2, 16B3

63. In the last 12 months, did you travel more than 100 miles (one way) to see a civilian specialist?

- 1 Yes
2 No

S10R09

See Notes 16B2, 16B3

64. In the last 12 months, how often did your doctor seem informed and up-to-date about the care you got from these civilian specialists?

- 1 Never
2 Sometimes
3 Usually
4 Always

S10R10

See Notes 16B2, 16B3

65. In the last 12 months, were you referred to a specialist at an MTF?

- 1 Yes
2 No → [Go to Question 70](#)

S10R11

See Notes 16B2, 16B4

66. How much of a problem, if any, was your wait time to see a specialist at an MTF?

- 1 A big problem
2 A small problem
3 Not a problem

S10R12

See Notes 16B2, 16B4

67. In the last 12 months, what is the longest time you spent traveling (round-trip) to see a specialist at an MTF?
- | | | |
|---|---|----------------------|
| 1 | <input type="checkbox"/> Less than ½ hour | S10R13 |
| 2 | <input type="checkbox"/> ½ hour to less than 1 hour | See Notes 16B2, 16B4 |
| 3 | <input type="checkbox"/> 1 hour to less than 2 hours | |
| 4 | <input type="checkbox"/> 2 hours to less than 4 hours | |
| 5 | <input type="checkbox"/> 4 hours to less than 8 hours | |
| 6 | <input type="checkbox"/> 8 hours or more | |
68. In the last 12 months, did you travel more than 100 miles (one way) to see a specialist at an MTF?
- | | | |
|---|------------------------------|----------------------|
| 1 | <input type="checkbox"/> Yes | S10R14 |
| 2 | <input type="checkbox"/> No | See Notes 16B2, 16B4 |
69. In the last 12 months, how often did your doctor seem informed and up-to-date about the care you got from these specialists at an MTF?
- | | | |
|---|------------------------------------|----------------------|
| 1 | <input type="checkbox"/> Never | S10R15 |
| 2 | <input type="checkbox"/> Sometimes | See Notes 16B2, 16B4 |
| 3 | <input type="checkbox"/> Usually | |
| 4 | <input type="checkbox"/> Always | |

PREVENTIVE CARE

Preventive care is medical care you receive that is intended to maintain your good health or prevent a future medical problem. A physical or blood pressure screening are examples of preventive care.

70. When did you last have a blood pressure reading?
- | | | |
|---|--|--------|
| 3 | <input type="checkbox"/> Less than 12 months ago | H10048 |
| 2 | <input type="checkbox"/> 1 to 2 years ago | |
| 1 | <input type="checkbox"/> More than 2 years ago | |
71. Do you know if your blood pressure is too high?
- | | | |
|---|---|--------|
| 1 | <input type="checkbox"/> Yes, it is too high | H10049 |
| 2 | <input type="checkbox"/> No, it is not too high | |
| 3 | <input type="checkbox"/> Don't know | |
72. When did you last have a flu shot?
- | | | |
|---|--|--------|
| 4 | <input type="checkbox"/> Less than 12 months ago | H10050 |
| 3 | <input type="checkbox"/> 1-2 years ago | |
| 2 | <input type="checkbox"/> More than 2 years ago | |
| 1 | <input type="checkbox"/> Never had a flu shot | |

73. Have you ever smoked at least 100 cigarettes in your entire life?
- | | | |
|---|-------------------------------------|-------------------------------------|
| 1 | <input type="checkbox"/> Yes | H10051 |
| 2 | <input type="checkbox"/> No | → Go to Question 78 |
| 5 | <input type="checkbox"/> Don't know | → Go to Question 78 |
74. Do you now smoke cigarettes every day, some days or not at all?
- | | | |
|--------|-------------------------------------|-------------------------------------|
| | | See Note 17 |
| H10052 | | |
| 4 | <input type="checkbox"/> Every day | → Go to Question 75 |
| 3 | <input type="checkbox"/> Some days | → Go to Question 75 |
| 2 | <input type="checkbox"/> Not at all | → Go to Question 78 |
| 5 | <input type="checkbox"/> Don't know | → Go to Question 78 |
| | | See Note 17 |
75. In the last 12 months, on how many visits were you advised to quit smoking by a doctor or other health provider in your plan?
- | | | |
|---|--|------------------|
| 1 | <input type="checkbox"/> None | H10053 |
| 2 | <input type="checkbox"/> 1 visit | See Notes 17, 18 |
| 3 | <input type="checkbox"/> 2 to 4 visits | |
| 4 | <input type="checkbox"/> 5 to 9 visits | |
| 5 | <input type="checkbox"/> 10 or more visits | |
| 6 | <input type="checkbox"/> I had no visits in the last 12 months | |
76. On how many visits was medication recommended or discussed to assist you with quitting smoking (for example: nicotine gum, patch, nasal spray, inhaler, prescription medication)?
- | | | |
|---|--|------------------|
| 1 | <input type="checkbox"/> None | H10054 |
| 2 | <input type="checkbox"/> 1 visit | See Notes 17, 18 |
| 3 | <input type="checkbox"/> 2 to 4 visits | |
| 4 | <input type="checkbox"/> 5 to 9 visits | |
| 5 | <input type="checkbox"/> 10 or more visits | |
| 6 | <input type="checkbox"/> I had no visits in the last 12 months | |
77. On how many visits did your doctor or health provider recommend or discuss methods and strategies (other than medication) to assist you with quitting smoking?
- | | | |
|---|--|------------------|
| 1 | <input type="checkbox"/> None | H10055 |
| 2 | <input type="checkbox"/> 1 visit | See Notes 17, 18 |
| 3 | <input type="checkbox"/> 2 to 4 visits | |
| 4 | <input type="checkbox"/> 5 to 9 visits | |
| 5 | <input type="checkbox"/> 10 or more visits | |
| 6 | <input type="checkbox"/> I had no visits in the last 12 months | |

78. Do you currently smoke any tobacco products other than cigarettes, such as cigars, pipes, bidis, kreteks, or any other tobacco product?

Note: Bidis are small, brown, hand-rolled cigarettes from India and other southeast Asian countries. Kreteks are clove cigarettes made in Indonesia that contain clove extract and tobacco.

- 1 Yes
- 2 No
- 5 Don't know

S10D03

79. Do you currently use smokeless tobacco products such as dip, chewing tobacco, snuff or snus every day, some days, or not at all?

- 1 Every day
- 2 Some days
- 3 Not at all

S10D02

80. If you use tobacco products other than cigarettes, on how many visits in the last 12 months were you advised to quit by a doctor or other health provider in your plan?

- 1 None
- 2 1 visit
- 3 2 to 4 visits
- 4 5 to 9 visits
- 5 10 or more visits
- 6 I had no visits in the last 12 months
- 7 I do not use other tobacco products

S10D05

81. Are you male or female?

- 1 Male → [Go to Question 88](#)
- 2 Female

H10056

See Note 19A

82. When did you last have a Pap smear test?

- 5 Within the last 12 months
- 4 1 to 3 years ago
- 3 More than 3 but less than 5 years ago
- 2 5 or more years ago
- 1 Never had a Pap smear test

H10057

See Notes 19A, 19B

83. Are you under age 40?

- 1 Yes → [Go to Question 85](#)
- 2 No

H10058

See Notes 19A, 19B, 20

84. When was the last time your breasts were checked by mammography?

- 5 Within the last 12 months
- 4 1 to 2 years ago
- 3 More than 2 years ago but less than 5 years ago
- 2 5 or more years ago
- 1 Never had a mammogram

H10059

See Notes 19A, 19B, 20

85. Have you been pregnant in the last 12 months or are you pregnant now?

See Notes 19A, 19B, 21

H10060

- 1 Yes, I am currently pregnant → [Go to Question 86](#)
- 2 No, I am not currently pregnant, but have been pregnant in the past 12 months → [Go to Question 87](#)
- 3 No, I am not currently pregnant, and have not been pregnant in the past 12 months → [Go to Question 88](#)

86. In what trimester is your pregnancy?

H10061

- 1 First trimester (up to 12 weeks after 1st day of last period) → [Go to Question 88](#)
- 2 Second trimester (13th through 27th week)
- 3 Third trimester (28th week until delivery)

See Notes 19A, 19B, 21

87. In which trimester did you first receive prenatal care?

See Notes 19A, 19B, 21

H10062

- 4 First trimester (up to 12 weeks after 1st day of last period)
- 3 Second trimester (13th through 27th week)
- 2 Third trimester (28th week until delivery)
- 1 Did not receive prenatal care

ABOUT YOU

88. In general, how would you rate your overall health?

- 5 Excellent
- 4 Very good
- 3 Good
- 2 Fair
- 1 Poor

H10063

89. Are you limited in any way in any activities because of any impairment or health problem?

- 1 Yes
- 2 No

H10064

90. In the last 12 months, have you seen a doctor or other health provider 3 or more times for the same condition or problem?

- 1 Yes
- 2 No → [Go to Question 92](#)

H10065

See Note 22

91. Is this a condition or problem that has lasted for at least 3 months? Do not include pregnancy or menopause.

- 1 Yes
- 2 No

H10066

See Note 22

92. Do you now need or take medicine prescribed by a doctor? Do not include birth control.

H10067

- 1 Yes
 2 No

→ Go to Question 94

See Note 23

93. Is this medicine to treat a condition that has lasted for at least 3 months? Do not include pregnancy or menopause.

- 1 Yes
 2 No

H10068

See Note 23

94. How tall are you without your shoes on?

Please give your answer in feet and inches.

H10069F H10069I

Example:

Height	
Feet	Inches
<u>5</u>	<u>6</u>
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input checked="" type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input checked="" type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

Your answer:

Height	
Feet	Inches
<input type="checkbox"/> 1	<input type="checkbox"/> 0
<input type="checkbox"/> 2	<input type="checkbox"/> 1
<input type="checkbox"/> 3	<input type="checkbox"/> 2
<input type="checkbox"/> 4	<input type="checkbox"/> 3
<input type="checkbox"/> 5	<input type="checkbox"/> 4
<input type="checkbox"/> 6	<input type="checkbox"/> 5
<input type="checkbox"/> 7	<input type="checkbox"/> 6
	<input type="checkbox"/> 7
	<input type="checkbox"/> 8
	<input type="checkbox"/> 9
	<input type="checkbox"/> 10
	<input type="checkbox"/> 11

95. How much do you weigh without your shoes on?

Please give your answer in pounds.

H10070

Example:

Weight		
Pounds		
<u>1</u>	<u>6</u>	<u>0</u>
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> 0
<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input checked="" type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

Your Answer:

Weight		
Pounds		
<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0
<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input type="checkbox"/> 5
	<input type="checkbox"/> 6	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 7
	<input type="checkbox"/> 8	<input type="checkbox"/> 8
	<input type="checkbox"/> 9	<input type="checkbox"/> 9

96. What is the highest grade or level of school that you have completed?

SREDA

- 1 8th grade or less
 2 Some high school, but did not graduate
 3 High school graduate or GED
 4 Some college or 2-year degree
 5 4-year college graduate
 6 More than 4-year college degree

97. Are you of Hispanic or Latino origin or descent?

(Mark "NO" if not Spanish/Hispanic/Latino.)

See Note 24

- A No, not Spanish, Hispanic, or Latino
 B Yes, Mexican, Mexican American, Chicano
 C Yes, Puerto Rican
 D Yes, Cuban
 E Yes, other Spanish, Hispanic, or Latino

H10071A-H10071E, H10071

98. What is your race?

(Mark ONE OR MORE races to indicate what you consider yourself to be.)

SRRACEA-SRRACEE

- A White
 B Black or African American
 C American Indian or Alaska Native
 D Asian (e.g., Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)
 E Native Hawaiian or other Pacific Islander (e.g., Samoan, Guamanian, or Chamorro)

99. What is your age now?

SRAGE

- 1 18 to 24
 2 25 to 34
 3 35 to 44
 4 45 to 54
 5 55 to 64
 6 65 to 74
 7 75 or older

100. Currently, are you covered by Medicare Part A? Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part A helps pay for inpatient hospital care.

H10072

- 1 Yes, I am now covered by Medicare Part A
 2 No, I am not covered by Medicare Part A

101. Currently, are you covered by Medicare Part B? Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part B helps pay for doctor's services, outpatient hospital services, and certain other services.

H10073

- 1 Yes, I am now covered by Medicare Part B
 2 No, I am not covered by Medicare Part B

102. Currently, are you covered by Medicare supplemental insurance? *Medicare supplemental insurance, also called Medigap or MediSup, is usually obtained from private insurance companies and covers some of the costs not paid for by Medicare.*

H10074

- 1 Yes, I am now covered by Medicare supplemental insurance
- 2 No, I am not covered by Medicare supplemental insurance

103. Using a scale of 1 to 5, with 1 being "strongly disagree" and 5 being "strongly agree", how much do you agree with the following statement: In general, I am able to see my provider(s) when needed?

S10011

- 1 1 Strongly disagree
- 2 2 Disagree
- 3 3 Neither agree nor disagree
- 4 4 Agree
- 5 5 Strongly agree

104. Using a scale of 1 to 5, with 1 being "completely dissatisfied" and 5 being "completely satisfied", how satisfied are you, overall, with the health care you received during your last visit?

S10014

- 1 1 Completely dissatisfied
- 2 2 Somewhat dissatisfied
- 3 3 Neither satisfied nor dissatisfied
- 4 4 Somewhat satisfied
- 5 5 Completely satisfied

THANK YOU FOR TAKING THE TIME TO COMPLETE THE SURVEY! Your generous contribution will greatly aid efforts to improve the health of our military community.

Return your survey in the postage-paid envelope. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs)
TMA/HPAE
c/o Synovate Survey Processing Center
PO Box 5030
Chicago, IL 60680-4138

Questions about the survey?

Email: survey-dodq2@synovate.net

Toll-free phone (in the US, Puerto Rico and Canada):
1-877-236-2390, available 24 hours a day
Toll-free fax (in the US and Canada): 1-800-409-7681

International Toll-Free numbers:

Germany: 0 800 182 1532
Great Britain: 008 234 7139
Japan: 0053 11 30 814
South Korea: 003 0813 1286
Mexico: 001 877 238 5171
Philippines: 1 800 1116 2366

When calling or writing, please provide your 8-digit ID number printed in blue on the letter accompanying this survey.

Questions about your TRICARE coverage?

For additional information on TRICARE, or if you are not sure about your benefits, or if you don't have a primary care manager, contact the TRICARE Service Center in your region:

North: 1-877-874-2273
South: 1-800-444-5445
West: 1-888-874-9378
Outside the US: 1-888-777-8343

The website is:

www.tricare.osd.mil/tricare-servicecenters

Veterans: Contact the US Department of Veterans Affairs at **1-877-222-VETS**; or go to www.va.gov

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APPENDIX B
CODING SCHEME AND CODING TABLES – QUARTER I

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QUARTER I

2010 HEALTH CARE SURVEY OF DOD BENEFICIARIES (HCSDB) CODING SCHEME AND CODING TABLES

BASIC SAS AND ASCII/EBCDIC MISSING DATA AND NOT APPLICABLE CODES

SAS		ASCII/EBCDIC	
Numeric		Numeric	Description
.		-9	No response
.O		-7	Out of range error
.N		-6	Not Applicable or valid skip
.D		-5	Scalable response of “Don’t know” or “not sure”
.I		-4	Incomplete grid error
.C		-1	Question should have been skipped.

Missing values ‘.’ and incomplete grids ‘.I’ are encoded prior to implementation of the Coding Scheme Notes (see below).

**Coding Table for Note 1:
H10003, H10004**

N1	H10003 is:	H10004 is:	H10003 is coded as:	H10004 is coded as:	*
1	1-13, health plan, -5, not sure	Marked or missing response	Stands as original value	Stands as original value	
2	-6, no usage in past 12 months	Marked response	Stands as original value	.C, question should be skipped	F
3	-6, no usage in past 12 months	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Marked or missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 2:
H10006, H10007, H10008**

N2	H10006 is:	H10007-H10008 are:	H10006 is coded as:	H10007-H10008 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value	
2	1: yes or missing response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: yes	“One marked, and one NA”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stand as original value	
5	2: no	“One marked, and one NA”	Stands as original value	.C, question should be skipped if marked	F
6	2: no or missing response	At least one is “marked”	1: yes	., missing if -6; stand as original value otherwise	B F
7	2: no	“All are blank” or “Blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 2:
Responses to H10007-H10008 are all missing.

Definition of “Blank or NA” in Coding Table for Note 2:
All of the following are true: H10007-H10008 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 2:
H10007-H10008 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 2:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 3:
H10009, H10010, H10011**

N3	H10009 is:	H10010-H10011 are:	H10009 is coded as:	H10010-H10011 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value	
2	1:yes or missing response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: yes	“One marked and one NA”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stand as original value	
5	2: no	“One marked and one NA”	Stands as original value	.C, question should be skipped if marked	F
6	2: no or missing response	At least one is “marked”	1: yes	., missing if -6; stand as original value otherwise	B F
7	2: no	“All are blank” or “Blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 3:
Responses to H10010-H10011 are all missing.

Definition of “Blank or NA” in Coding Table for Note 3:
All of the following are true: H10010-H10011 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 3:
H10010-H10011 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 3:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 4:
H10013, H10014-H10018**

N4	H10013 is:	H10014-H10018 are:	H10013 is coded as:	H10014-H10018 are coded as:	*
1	1: None	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
2	2-7, or missing response	“Blank or NA”	1: None	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2-7	At least one is “marked” or “all are blank”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	Missing response	“All are blank”	Stands as original value	Stand as original value	
5	Missing response	At least one is “marked”	Stands as original value	., missing if -6; stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 4:
Responses to H10014-H10018 are all missing.

Definition of “blank or NA” in Coding Table for Note 4:
All of the following are true: H10014-H10018 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 4:
Any pattern of marks outside the definitions “all are blank” and “Blank or NA.”

**Coding Table for Note 5:
H10015, H10016-H10017**

N5	H10015 is:	H10016 is:	H10017 is:	H10015 is coded as:	H10016 is coded as:	H10017 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	2: No, missing	1: Definitely yes 2: Somewhat yes	Any value	1: Yes	Stands as original value	Stands as original value	B
4	2: No, missing	3: Somewhat no, 4: Definitely no, or missing	1: Definitely yes 2: Somewhat yes	1: Yes	Stands as original value	Stands as original value	B
5	2: No	3: Somewhat no, 4: Definitely no, or missing	3: Somewhat no, 4: Definitely no, or missing	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	3: Definitely no, 4: Somewhat no, or missing	3: Definitely no, 4: Somewhat no, or missing	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 6:
H10019, H10020-H10027, S10009**

N6	H10019 is:	H10020-H10024 are:	H10025-H10026, S10009 are:	H10027 is:	H10019 is coded as:	H10020-H10026 and S10009 are coded as:	H10027 is coded as:	*
1	1: Yes	Any value	Any value	Any value	Stands as original value	Stand as original value	., missing if -6; stands as original value otherwise	F
2	2: No, missing	Any value	Any value	0-10	1: Yes	Stand as original value	Stands as original value	B
3	2: No, missing	At least one is "marked"	Any value	Missing response	1: Yes	Stand as original value	Stands as original value	B
4	2: No	At least one is "marked"	Any value	-6: No personal doctor	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.C, question should be skipped	F
5	2: No	"Blank or NA"	Any value	-6: No personal doctor or missing	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Any value	Any value	-6: No personal doctor	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.C, question should be skipped	B F
7	Missing response	"Blank or NA"	Any value	Missing response	Stands as original value	Stand as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "blank or NA" in Coding Table for Note 6:

All of the following are true: H10020 is either 0: None or missing and H10021-H10024 are either not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 6:

Any pattern of marks for H10020-H10024 outside the definition "blank or NA."

**Coding Table for Note 7:
H10020, H10021-H10026**

N7	H10020 is:	H10021-H10024 are:	H10025-H10026 are:	H10020 is coded as:	H10021-H10026 are coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stand as original value	
2	0: None	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1-6, or missing response	“Blank or NA”	Any value	0: None	.N, valid skip if missing; .C, question should be skipped if marked	B F
4	1-6, or missing response	At least one is “marked” or “all are blank”	Any value	Stands as original value	., missing if -6; stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 7:
Responses to H10021-H10024 are all missing.

Definition of “blank or NA” in Coding Table for Note 7:
All of the following are true: H10021-H10024 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks for H10021-H10024 outside the definitions “all are blank” and “blank or NA.”

**Coding Table for Note 8:
H10025, H10026**

N8	H10025 is:	H10026 is:	H10025 is coded as:	H10026 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1: yes	Any value	Stands as original value	Stands as original value	
3	2: no or missing response	1, 2, 3, 4	1: yes	Stands as original value	B
4	2: no	Missing response	Stands as original value	.N, valid skip	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 8A1:
S10009, S10010**

N8A1	S10009 is:	S10010 is:	S10009 is coded as:	S10010 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1: yes	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: no	Any value	Stands as original value	Stands as original value	
4	Missing	Any value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 9:
H10028, H10029-H10031**

N9	H10028 is:	H10029-H10031 are:	H10028 is coded as:	H10029 is coded as:	H10030-H10031 are coded as:	*
1	1: Yes	Any value	Stands as original value	., missing if -6; stands as original value otherwise	Stand as original value	F
2	2: No, missing	At least one is "marked"	1: Yes	., missing if -6; stands as original value otherwise	Stand as original value	B
3	2: No	"All are blank" or "Blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"All are blank"	Stands as original value	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 9:
Responses to H10029-H10031 are all missing.

Definition of "blank or NA" in Coding Table for Note 9:
All of the following are true: H10029 and H10031 are a combination of not applicable (-6) or missing, H10030 is either missing or 0: None.

Definition of "marked" in Coding Table for Note 9:
Any pattern of marks outside the definitions "all are blank" and "Blank or NA."

**Coding Table for Note 10:
H10030, H10031**

N10	H10030 is:	H10031 is:	H10030 is coded as:	H10031 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1,2,3,4,5	0-10, or missing response	Stands as original value	Stands as original value	
3	1,2,3,4,5 or missing response	-6: didn't need to see a specialist	0: None	.C, question should be skipped	B F
4	0: none	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	0-10, or missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 10A1:
S10B02, S10B03-S10B04**

N10A1	S10B02 is:	S10B03-S10B04 are:	S10B02 is coded as:	S10B03-S10B04 are coded as:	*
1	1: yes	Any value	Stands as original value	., missing if -6; stand as original value otherwise	F
2	2: no or missing response	At least one is "marked"	1: yes	., missing if -6; stand as original value otherwise	B F
3	2: no	"All are blank" or "Blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"All are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10A1:
Responses to S10B03-S10B04 are all missing.

Definition of "blank or NA" in Coding Table for Note 10A1:
All of the following are true: S10B03-S10B04 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 10A1:
Any pattern of marks outside the definition "all are blank"

**Coding Table for Note 11:
H10032, H10033**

N11	H10032 is:	H10033 is:	H10032 is coded as:	H10033 is coded as:	*
1	1: yes	1-4: how often or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need care, tests, or treatment	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't need care, tests, or treatment or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 11B:
H10034B, H10034**

N11B	H10034B is:	H10034 is:	H10034B is coded as:	H10034 is coded as:	*
1	1: yes	1-4: how often or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't look for information	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't look for information or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 12:
H10035, H10036**

N12	H10035 is:	H10036 is:	H10035 is coded as:	H10036 is coded as:	*
1	1: yes	1-4: how often, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need service or equipment	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't need service or equipment, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 13:
H10037, H10038**

N13	H10037 is:	H10038 is:	H10037 is coded as:	H10038 is coded as:	*
1	1: yes	1-4: how often, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need prescription meds	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't need prescription meds, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 14:
H10039, H10040-H10041**

N14	H10039 is:	H10040-H10041 are:	H10039 is coded as:	H10040-H10041 are coded as:	*
1	1: Yes	At least one is "marked" or "all are blank"	Stands as original value	., missing if -6; stand as original value otherwise	F
2	1: Yes or missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: No or missing response	At least one is "marked"	1: Yes	., missing if -6; stand as original value otherwise	B F
4	2: No	"All are blank" or "blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	"All are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 14:
Responses to H10040-H10041 are all missing.

Definition of "blank or NA" in Coding Table for Note 14:
All of the following are true: H10040-H10041 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 14:
Any pattern of marks outside the definitions "all are blank" and "blank or NA."

**Coding Table for Note 15:
H10042, H10043**

N15	H10042 is:	H10043 is:	H10042 is coded as:	H10043 is coded as:	*
1	1: yes	1-4: how often, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't receive forms to fill out	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't receive forms to fill out, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16:
H10044, H10045-H10046**

N16	H10044 is:	H10045-H10046 are:	H10044 is coded as:	H10045-H10046 are coded as:	*
1	1: yes	At least one is "marked", "all are blank" or "blank or don't know"	Stands as original value	., missing if -6; stand as original value otherwise	F
2	1: yes, -5: don't know, missing	"Blank or NA" or "NA or don't know"	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no, -5: don't know, missing	At least one is "marked"	1: yes	., missing if -6; stand as original value otherwise	B F
4	2: no	None are "marked"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	-5: don't know	"Blank or don't know" or "all are blank"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	"Blank or don't know" or "all are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 16:

Responses to H10045-H10046 are all missing.

Definition of "blank or NA" in Coding Table for Note 16:

Responses to H10045-H10046 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of "blank or don't know" in Coding Table for Note 16:

Responses to H10045-H10046 are either all don't know (-5) or a combination of missing and don't know (-5).

Definition of "NA or don't know" in Coding Table for Note 16:

Responses to H10045-H10046 are a combination of not applicable (-6) and don't know (-5).

Definition of "marked" in Coding Table for Note 16:

Any pattern of marks outside the definitions "all are blank," "blank or NA," "blank or don't know," or "NA or don't know".

Coding Table for Note 16B1:

S10G18, S10G19, S10G23, S10G27-S10G28, S10G29A-S10G29K, S10G30-S10G35, S10G40-S10G43

N16B1	S10G18 is:	S10G19 is:	S10G23 is:	S10G27- S10G35 S10G40- S10G43 are:	S10G18 is coded as:	S10G19 is coded as:	S10G23 is coded as:	S10G27- S10G35 S10G40- S10G43 are coded as:	*
1	1: Yes	3: Reservist not on active duty for contingency operation, 4: Not a reservist	3: Spouse/ Parent Reservist not on active duty for contingency operation, 4: Spouse/ Parent not a reservist	Any value	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing or unmarked; .C, question should be skipped if marked	B F
2	1: Yes	3: Reservist not on active duty for contingency operation, 4: Not a reservist	1, 2 : Yes, missing	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
3	1: Yes	1, 2 : Yes, Missing	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
4	2: No, missing response	1, 2 : Yes	Any value	Any value	1: Yes	Stands as original value	Stands as original value	Stand as original value	B
5	2: No, missing response	3: Reservist not on active duty for contingency operation, 4: Not a reservist, missing	1, 2 : Yes	Any value	1: Yes	Stands as original value	Stands as original value	Stand as original value	B
6	2: No	3: Reservist not on active duty for contingency operation, 4: Not a reservist, missing	3: Reservist not on active duty for contingency operation, 4: Not a reservist, missing	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing or unmarked; .C, question should be skipped if marked	F

Coding Table for Note 16B1 continued:

N16B1	S10G18 is:	S10G19 is:	S10G23 is:	S10G27- S10G35 S10G40- S10G43 are:	S10G18 is coded as:	S10G19 is coded as:	S10G23 is coded as:	S10G27- S10G35 S10G40- S10G43 are coded as:	*
7	Missing response	Missing response	Missing response	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
8	Missing response	3: Reservist not on active duty for contingency operation, 4: Not a reservist, missing	3: Reservist not on active duty for contingency operation, 4: Not a reservist	Any value	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing or unmarked; .C, question should be skipped if marked	B F
9	Missing response	3: Reservist not on active duty for contingency operation, 4: Not a reservist	Missing Response	Any value	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing or unmarked; .C, question should be skipped if marked	B F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16B2:
S10G28, S10G29A-S10G29K, S10G30**

N16B2	S10G28 is:	S10G29A- S10G29K are:	S10G30 is:	S10G28 is coded as:	S10G29A-S10G29K are coded as:	S10G30 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stand as original value	Stands as original value	
2	3: Civilian Coverage	Any value	Any value	Stands as original value	Stand as original value	Stands as original value	
3	1: Only TRICARE	Any value	Any value	Stands as original value	.N, valid skip if missing or unmarked, .C, question should be skipped if marked	.N, valid skip if missing, .C, question should be skipped if marked	F
4	2: Both or -5: Don't know	Any value	Any value	Stands as original value	.N, valid skip if missing or unmarked, .C, question should be skipped if marked	Stands as original value	F
5	Missing response	"Marked"	Any value	3: Civilian Coverage	Stand as original value	Stands as original value	B
6	Missing response	"All are unmarked"	1: pay all, 2: pay nothing, 3: pay part, or -5: don't know	-5: Don't know	.N, valid skip if missing or unmarked, .C, question should be skipped if marked	Stands as original value	B F
7	Missing response	"All are unmarked"	Missing response	Stands as original value	., missing	Stands as original value	F

* Indication of backward coding (B) or forward coding (F).

Definition of "all are unmarked" in Coding Table for Note 16B2:
Responses to S10G29A-S10G29K are missing or unmarked.

Definition of "marked" in Coding Table for Note 16B2:
Any pattern of marks outside the definition "all are unmarked".

**Coding Table for Note 16B3:
S10G32, S10G33-S10G34**

N16B3	S10G32 is:	S10G33 is:	S10G34 is:	S10G32 is coded as:	S10G33 is coded as:	S10G34 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes, 2: No, or missing	-6: No personal doctor	-6: No personal doctor or missing	-6: No personal doctor	.C, question should be skipped	.N, valid skip if missing, .C, question should be skipped if marked	B F
3	1: Yes, 2: No, or missing	-5: Don't know or missing	-6: No personal doctor	-6: No personal doctor	.N, valid skip if missing, .C, question should be skipped if marked	.C, question should be skipped	B F
4	1: Yes	1: Yes or 2: No	Any value	Stands as original value	Stands as original value	., missing if -6; Stands as original value otherwise	F
5	1: Yes	-5: Don't know, -6: No personal doctor, or missing	1-2: Difficult or 3: Same	Stands as original value	., missing if -6; Stands as original value otherwise	Stands as original value	F
6	1: Yes	-5: Don't know or missing	Missing response	Stands as original value	Stands as original value	Stands as original value	
7	2: No	1: Yes or 2: No	Any value	Stands as original value	.C, question should be skipped	., missing if -6; Stands as original value otherwise	F
8	2: No	-5: Don't know, -6: No personal doctor, or missing	1-2: Difficult or 3: Same	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	Stands as original value	F
9	2: No	-5: Don't know or missing	Missing response	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	Stands as original value	F
10	-6: No personal doctor	Any value	Any value	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	.N, valid skip if missing, .C, question should be skipped if marked	F
11	Missing response	1: Yes, 2: No, -5: Don't know, or missing	1-2: Difficult, 3: Same, or missing	Stands as original value	Stand as original value	Stand as original value	
12	Missing response	1: Yes or 2: No	-6: No personal doctor	-6: No personal doctor	.C, question should be skipped	.C, question should be skipped	B F
13	Missing response	-6: No personal doctor	1-2: Difficult or 3: Same	-6: No personal doctor	.C, question should be skipped	.C, question should be skipped	B F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16B4:
S10G40, S10G41-S10G43**

N16B4	S10G40 is:	S10G41-S10G43 are:	S10G40 is coded as:	S10G41-S10G43 are coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stand as original value	
2	1: yes	Any value	Stands as original value	Stand as original value	
3	2: no or missing response	“Any yes response”	1: yes	Stand as original value	B
4	2: no	“All are no, don’t know, or missing”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	“All are no, don’t know, or missing”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “any yes response” in Coding Table for Note 16B4:

Response to S10G41 is yes(1), or response to S10G42 is yes(1), or response to S10G43 is yes(1,2).

Definition of “all are no, don’t know, or missing” in Coding Table for Note 16B4:

Any pattern of marks outside the definition “any yes response”.

**Coding Table for Note 17:
H10051--H10055**

N17	H10051 is:	H10052 is:	H10053- H10055 are:	H10051 is coded as:	H10052 is coded as:	H10053- H10055 are coded as:	*
1	1: ever smoked	3 or 4: still smoke	Any value	Stands as original value	Stands as original value	Stand as original value	
2	1: ever smoked	2: quit, -5: don't know	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	F
3	1: ever smoked	Missing response	Any value	Stands as original value	Stands as original value	Stand as original value	
4	2: never, -5: don't know, missing response	3 or 4: still smoke	Any value	1: ever smoked	Stands as original value	Stand as original value	B
5	2: never or -5: don't know	2: quit, -5: don't know, or missing response	Any value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	.C, question should be skipped if marked; .N, valid skip if missing	F
6	Missing response	2: quit, missing response	Any = 2- 5: some visits	1: ever smoked	Stands as original value	Stand as original value	B
7	Missing response	2: quit, missing response	All = 1: None, -6: No visits, or missing	Stands as original value	Stands as original value	Stand as original value	
8	Missing response	-5: don't know	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 18:
H10053, H10054-H10055**

N18	H10053 is:	H10054 is:	H10055 is:	H10053 is coded as:	H10054 is coded as:	H10055 is coded as:	*
1	.N: No doctor visits	Any value	Any value	Stands as original value	.C, question should be skipped if marked; .N: No doctor visits, otherwise	.C, question should be skipped if marked; .N: No doctor visits, otherwise	F
2	.C: Should be skipped	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	1: None	.N: No doctor visits	.N: No doctor visits	Stands as original value	1: None	1: None	F
4	1: None	.N: No doctor visits	1-5, missing	Stands as original value	1: None	Stands as original value	F
5	1: None	1-5, missing	.N: No doctor visits	Stands as original value	Stands as original value	1: None	F
6	2-5: Visits, missing	.N: No doctor visits	.N: No doctor visits	Stands as original value	.:Missing	.:Missing	F
7	2-5: Visits, missing	.N: No doctor visits	1-5, missing	Stands as original value	.:Missing	Stands as original value	F
8	2-5: Visits, missing	1-5, missing	.N: No doctor visits	Stands as original value	Stands as original value	.:Missing	F
9	1-5: 0 or more visits	More visits than indicated by H10053	More visits than indicated by H10053	Stands as original value	H10053	H10053	F
10	1-5: 0 or more visits	More visits than indicated by H10053	Same or fewer visits than indicated by H10053 or missing	Stands as original value	H10053	Stands as original value	F
11	1-5: 0 or more visits	Same or fewer visits than indicated by H10053 or missing	More visits than indicated by H10053	Stands as original value	Stands as original value	H10053	F
12	1-5: 0 or more visits	Same or fewer visits than indicated by H10053 or missing	Same or fewer visits than indicated by H10053 or missing	Stands as original value	Stands as original value	Stands as original value	
13	Missing	1-5, missing	1-5, missing	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 19:

Note 19 (Part a)

H10056, SEX, XSEXA, H10057-H10062

N19A	H10056 is :	SEX is:	H10057--H10062 are:	XSEXA is coded as:
1	Missing response	F	Any marked	2, female
2	Missing response	F	All missing	2, female
3	Missing response	M	Any marked	1, male
4	Missing response	M	All missing	1, male
5	Missing response	Z, missing	Any marked	2, female
6	Missing response	Z	All missing	., missing value
7	Missing response	Missing	All missing	., missing value
8	1, male	Any value	All missing	1, male
9	1, male	F	Any marked	2, female
10	1, male	M, Z, or missing	Any marked	1, male
11	2, female	Any value	Any marked	2, female
12	2, female	M	All missing	1, male
13	2, female	F, Z, or missing	All missing	2, female

SEX (PNSEXCD) is the gender from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

XSEXA is the recoded gender variable after taking into account the self-reported response (H10056), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 19 (Part B):

XSEXA, H10057 - H10062

N19B	XSEXA is:	H10057--H10062 are:	H10057--H10062 are coded as:	*
1	1: Male	“All are blank”	.N, valid skip	F
2	1: Male	At least one is “marked”	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: Female	“All are blank” or at least one is “marked”	Stand as original value	
4	Missing	“All are blank” or at least one is “marked”	Missing value	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 19b:
All variables H10057--H10062 are missing.

Definition of “marked” in Coding Table for Note 19b:
Any pattern of marks outside the definition “all are blank.”

Coding Table for Note 20
XSEXA, AGE, H10058, H10059

N20	XSEXA is:	AGE is:	H10058 is:	H10059 is:	H10058 is coded as:	H10059 is coded as:	*
1	1: Male	Any value	.C, question should be skipped, or .N, valid skip	C, question should be skipped, or .N, valid skip	Stands as original value	Stands as original value	
2	2: Female	Any value	2: 40 or over	Any value	Stands as original value	Stands as original value	
3	2: Female	Any value	1: under 40	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	2: Female	Any value	Missing	Marked	2: >= 40	Stands as original value	B
5	2: Female	< 40	Missing	Missing	1: < 40	.N, valid skip	F B
6	2: Female	>=40	Missing	Missing	2: >= 40	Stands as original value	B
7	2: Female	Missing	Missing	Missing	Stands as original value	Stands as original value	
8	Missing	Any value	Missing	Missing	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

AGE (DAGEQY) is from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

**Coding Table for Note 21:
XSEXA, H10060, H10061, H10062**

N21	XSEXA is:	H10060 is:	H10061 is:	H10062 is:	H10060 is coded as:	H10061 is coded as:	H10062 is coded as:	*
1	1: Male	Any value	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
2	2: Female	1: pregnant now	1: first trimester	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: Female	1: pregnant now	2: second trimester	2: third trimester	Stands as original value	Stands as original value	∴ missing value	F
4	2: Female	1: pregnant now	2: second trimester	4: first trimester, 3: second trimester, 1: Did not receive prenatal care, or missing	Stands as original value	Stands as original value	Stands as original value	
5	2: Female	1: pregnant now	3: third trimester, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	
6	2: Female	2: pregnant in last 12 months	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	Stands as original value	F
7	2: Female	3: not pregnant in past 12 months	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
8	2: Female	Missing response	1: first trimester	Any value	1: pregnant now	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	B F

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 21 continued:

N21	XSEXA is:	H10060 is:	H10061 is:	H10062 is:	H10060 is coded as:	H10061 is coded as:	H10062 is coded as:	*
9	2: Female	Missing response	2: second trimester	2: third trimester	1: pregnant now	Stands as original value	.: missing value	B F
10	2: Female	Missing response	2: second trimester	4: first trimester, 3: second trimester, 1: Did not receive prenatal care, or missing	1: pregnant now	Stands as original value	Stands as original value	B
11	2: Female	Missing response	3: third trimester	Any value	1: pregnant now	Stands as original value	Stands as original value	B
12	2: Female	Missing response	Missing response	Any value	Stands as original value	Stands as original value	Stands as original value	F
13	Missing	Missing response	Marked, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 22:

H10065, H10066

N22	H10065 is:	H10066 is:	H10065 is coded as:	H10066 is coded as:	*
1	1: yes	Any value	Stands as original value	Stands as original value	
2	2: no or missing response	1: yes or 2: no	1: yes	Stands as original value	B
3	2: no	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 23:

H10067, H10068

N23	H10067 is:	H10068 is:	H10067 is coded as:	H10068 is coded as:	*
1	1: yes	Any value	Stands as original value	Stands as original value	
2	2: no or missing response	1: yes or 2: no	1: yes	Stands as original value	B
3	2: no	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 24:
H10071, H10071A-H10071E**

N24	H10071A is:	H10071B is:	H10071C is:	H10071D is:	H10071E is:	H10071 is coded as:	H10071A-E are coded as:	*
1	Any value	1: Marked	Any value	Any value	Any value	2: Yes, Mexican, Mexican American, Chicano	Stand as original value	F
2	Any value	2: Unmarked	Any value	Any value	1: Marked	5: Yes, other Spanish, Hispanic, or Latino	Stand as original value	F
3	Any value	2: Unmarked	1: Marked	Any value	2: Unmarked	3: Yes, Puerto Rican	Stand as original value	F
4	Any value	2: Unmarked	2: Unmarked	1: Marked	2: Unmarked	4: Yes, Cuban	Stand as original value	F
5	1: Marked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	1: No, not Spanish, Hispanic, or Latino	Stand as original value	F
6	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	∴ Missing	Stand as original value	F

* Indication of backward coding (B) or forward coding (F).

APPENDIX B

CODING SCHEME AND CODING TABLES – QUARTER II

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QUARTER II

2010 HEALTH CARE SURVEY OF DOD BENEFICIARIES (HCSDB) CODING SCHEME AND CODING TABLES

BASIC SAS AND ASCII/EBCDIC MISSING DATA AND NOT APPLICABLE CODES

SAS		ASCII/EBCDIC	Description
Numeric	Numeric		
.	-9	No response	
.O	-7	Out of range error	
.N	-6	Not Applicable or valid skip	
.D	-5	Scalable response of “don’t know” or “not sure”	
.I	-4	Incomplete grid error	
.C	-1	Question should have been skipped.	

Missing values ‘.’ and incomplete grids ‘.I’ are encoded prior to implementation of the Coding Scheme Notes (see below).

**Coding Table for Note 1:
H10003, H10004**

N1	H10003 is:	H10004 is:	H10003 is coded as:	H10004 is coded as:	*
1	1-13, health plan, -5, not sure	Marked or missing response	Stands as original value	Stands as original value	
2	-6, no usage in past 12 months	Marked response	Stands as original value	.C, question should be skipped	F
3	-6, no usage in past 12 months	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Marked or missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 2:
H10006, H10007, H10008**

N2	H10006 is:	H10007-H10008 are:	H10006 is coded as:	H10007-H10008 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value	
2	1: yes or missing response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: yes	“One marked, and one NA”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stand as original value	
5	2: no	“One marked, and one NA”	Stands as original value	.C, question should be skipped if marked	F
6	2: no or missing response	At least one is “marked”	1: yes	., missing if -6; stand as original value otherwise	B F
7	2: no	“All are blank” or “Blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 2:
Responses to H10007-H10008 are all missing.

Definition of “Blank or NA” in Coding Table for Note 2:
All of the following are true: H10007-H10008 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 2:
H10007-H10008 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 2:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA”.

**Coding Table for Note 3:
H10009, H10010, H10011**

N3	H10009 is:	H10010-H10011 are:	H10009 is coded as:	H10010-H10011 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value	
2	1:yes or missing response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: yes	“One marked and one NA”	Stands as original value	., missing if –6; stand as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stand as original value	
5	2: no	“One marked and one NA”	Stands as original value	.C, question should be skipped if marked	F
6	2: no or missing response	At least one is “marked”	1: yes	., missing if –6; stand as original value otherwise	B F
7	2: no	“All are blank” or “Blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 3:
Responses to H10010-H10011 are all missing.

Definition of “Blank or NA” in Coding Table for Note 3:
All of the following are true: H10010-H10011 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 3:
H10010-H10011 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 3:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA”.

**Coding Table for Note 4:
H10013, H10014-H10018**

N4	H10013 is:	H10014-H10018 are:	H10013 is coded as:	H10014-H10018 are coded as:	*
1	1: None	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
2	2-7, or missing response	“Blank or NA”	1: None	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2-7	At least one is “marked” or “all are blank”	Stands as original value	., missing if –6; stand as original value otherwise	F
4	Missing response	“All are blank”	Stands as original value	Stand as original value	
5	Missing response	At least one is “marked”	Stands as original value	., missing if –6; stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 4:
Responses to H10014-H10018 are all missing.

Definition of “blank or NA” in Coding Table for Note 4:
All of the following are true: H10014-H10018 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 4:
Any pattern of marks outside the definitions “all are blank” and “Blank or NA”.

**Coding Table for Note 5:
H10015, H10016-H10017**

N5	H10015 is:	H10016 is:	H10017 is:	H10015 is coded as:	H10016 is coded as:	H10017 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	2: No, missing	1: Definitely yes 2: Somewhat yes	Any value	1: Yes	Stands as original value	Stands as original value	B
4	2: No, missing	3: Somewhat no, 4: Definitely no, or missing	1: Definitely yes 2: Somewhat yes	1: Yes	Stands as original value	Stands as original value	B
5	2: No	3: Somewhat no, 4: Definitely no, or missing	3: Somewhat no, 4: Definitely no, or missing	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	3: Definitely no, 4: Somewhat no, or missing	3: Definitely no, 4: Somewhat no, or missing	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 6:
H10019, H10020-H10027, S10009**

N6	H10019 is:	H10020-H10024 are:	H10025-H10026, S10009 are:	H10027 is:	H10019 is coded as:	H10020-H10026 and S10009 are coded as:	H10027 is coded as:	*
1	1: Yes	Any value	Any value	Any value	Stands as original value	Stand as original value	., missing if -6; stands as original value otherwise	F
2	2: No, missing	Any value	Any value	0-10	1: Yes	Stand as original value	Stands as original value	B
3	2: No, missing	At least one is "marked"	Any value	Missing response	1: Yes	Stand as original value	Stands as original value	B
4	2: No	At least one is "marked"	Any value	-6: No personal doctor	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.C, question should be skipped	F
5	2: No	"Blank or NA"	Any value	-6: No personal doctor or missing	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Any value	Any value	-6: No personal doctor	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.C, question should be skipped	B F
7	Missing response	"Blank or NA"	Any value	Missing response	Stands as original value	Stand as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "blank or NA" in Coding Table for Note 6:

All of the following are true: H10020 is either 0: None or missing and H10021-H10024 are either not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 6:

Any pattern of marks for H10020-H10024 outside the definition "blank or NA".

**Coding Table for Note 7:
H10020, H10021-H10026**

N7	H10020 is:	H10021-H10024 are:	H10025- H10026 are:	H10020 is coded as:	H10021-H10026 are coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stand as original value	
2	0: None	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1-6, or missing response	“Blank or NA”	Any value	0: None	.N, valid skip if missing; .C, question should be skipped if marked	B F
4	1-6, or missing response	At least one is “marked” or “all are blank”	Any value	Stands as original value	., missing if –6; stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 7:
Responses to H10021-H10024 are all missing.

Definition of “blank or NA” in Coding Table for Note 7:
All of the following are true: H10021-H10024 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks for H10021-H10024 outside the definitions “all are blank” and “blank or NA”.

**Coding Table for Note 8:
H10025, H10026**

N8	H10025 is:	H10026 is:	H10025 is coded as:	H10026 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1: yes	Any value	Stands as original value	Stands as original value	
3	2: no or missing response	1, 2, 3, 4	1: yes	Stands as original value	B
4	2: no	Missing response	Stands as original value	.N, valid skip	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 8A1:
S10009, S10010**

N8A1	S10009 is:	S10010 is:	S10009 is coded as:	S10010 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1: yes	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: no	Any value	Stands as original value	Stands as original value	
4	Missing	Any value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 9:
H10028, H10029-H10031**

N9	H10028 is:	H10029-H10031 are:	H10028 is coded as:	H10029 is coded as:	H10030-H10031 are coded as:	*
1	1: Yes	Any value	Stands as original value	., missing if -6; stands as original value otherwise	Stand as original value	F
2	2: No, missing	At least one is "marked"	1: Yes	., missing if -6; stands as original value otherwise	Stand as original value	B
3	2: No	"All are blank" or "Blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"All are blank"	Stands as original value	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 9:
Responses to H10029-H10031 are all missing.

Definition of "blank or NA" in Coding Table for Note 9:
All of the following are true: H10029 and H10031 are a combination of not applicable (-6) or missing, H10030 is either missing or 0: None.

Definition of "marked" in Coding Table for Note 9:
Any pattern of marks outside the definitions "all are blank" and "Blank or NA".

**Coding Table for Note 10:
H10030, H10031**

N10	H10030 is:	H10031 is:	H10030 is coded as:	H10031 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1-5: specialists	0-10, or missing response	Stands as original value	Stands as original value	
3	1-5: specialists or missing response	-6: didn't need to see a specialist	0: None	.C, question should be skipped	B F
4	0: none	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	0-10, or missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 10B1:
S10V19, S10V22**

N10B1	S10V19 is:	S10V22 is:	S10V19 is coded as:	S10V22 is coded as:	*
1	1: yes, 2: no, or missing response	1: yes, 2: no, or missing response	Stands as original value	Stands as original value	
2	1: yes or 2: no	-6: do not have a personal doctor or nurse	Stands as original value	., missing	F
3	Missing response	-6: do not have a personal doctor or nurse	-6: do not have a personal doctor or nurse	Stands as original value	B
4	-6: do not have a personal doctor or nurse	1: yes or 2: no	., missing	Stands as original value	B
5	-6: do not have a personal doctor or nurse	Missing response	Stands as original value	-6: do not have a personal doctor or nurse	F
6	-6: do not have a personal doctor or nurse	-6: do not have a personal doctor or nurse	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 10B2:
S10V20, S10V21A-S10V21J**

N10B2	S10V20 is:	S10V21A-S10V21J are:	S10V20 is coded as:	S10V21A-S10V21J are coded as:	*
1	1-2: problem	Any value	Stands as original value	Stand as original value	
2	3: not a problem	“All are unmarked”	Stands as original value	.N, valid skip	F
3	3: not a problem	“At least one is marked”	., missing	Stand as original value	B
4	Missing response	“All are unmarked”	Stands as original value	., missing	F
5	Missing response	“At least one is marked”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are unmarked” in Coding Table for Note 10B2:
Responses to S10V21A-S10V21J are all unmarked.

Definition of “at least one is marked” in Coding Table for Note 10B2:
Any pattern of marks outside the definition “all are unmarked”.

**Coding Table for Note 10B3:
S10V06, S10V11A-S10V11I**

N10B3	S10V06 is:	S10V11A-S10V11I are:	S10V06 is coded as:	S10V11A-S10V11I are coded as:	*
1	1-2: problem	Any value	Stands as original value	Stand as original value	
2	3: not a problem or -6: did not try to find a doctor from the civilian network	“All are unmarked”	Stands as original value	.N, valid skip	F
3	3: not a problem or -6: did not try to find a doctor from the civilian network	“At least one is marked”	., missing	Stand as original value	B
4	Missing response	“All are unmarked”	Stands as original value	., missing	F
5	Missing response	“At least one is marked”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are unmarked” in Coding Table for Note 10B3:
Responses to S10V11A-S10V11I are all unmarked.

Definition of “at least one is marked” in Coding Table for Note 10B3:
Any pattern of marks outside the definition “all are unmarked”.

**Coding Table for Note 10B4:
S10V23-S10V24**

N10B4	S10V23 is:	S10V24 is:	S10V23 is coded as:	S10V24 is coded as:	*
1	1: yes	Any value	Stands as original value	Stands as original value	
2	2: no or missing response	1: yes or 2: no	1: yes	Stands as original value	B
3	2: no	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 10B5:

S10V25, S10V26A-S10V26J, S10V27-S10V28, S10V07, S10V12A-S10V12H

N10B5	S10V25 is:	S10V26A- S10V26J are:	S10V27-S10V28, S10V07, S10V12A- S10V12H are:	S10V25 is coded as:	S10V26A-S10V26J are coded as:	S10V27-S10V28, S10V07, S10V12A- S10V12H are coded as:	*
1	1-2: problem	Any value	Any value	Stands as original value	Stand as original value	Stand as original value	
2	3: not a problem	“All are unmarked”	Any value	Stands as original value	.N, valid skip	Stand as original value	F
3	3: not a problem or -6: did not need a civilian specialist	“At least one is marked”	Any value	., missing	Stand as original value	Stand as original value	B
4	-6: did not need a civilian specialist	“All are unmarked”	“All are blank or N/A”	Stands as original value	.N, valid skip	.N, valid skip if missing; .C, question should be skipped if marked	F
5	-6: did not need a civilian specialist	“All are unmarked”	“At least one is marked”	., missing	Stand as original value	Stand as original value	B
6	Missing response	“All are unmarked”	Any value	Stands as original value	., missing	Stand as original value	F
7	Missing response	“At least one is marked”	Any value	Stands as original value	Stand as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are unmarked” in Column 3 of Coding Table for Note 10B5:

Responses to S10V26A-S10V26J are all unmarked.

Definition of “at least one is marked” in Column 3 of Coding Table for Note 10B5:

Any pattern of marks outside the definition “all are unmarked”.

Definition of “all are blank or N/A” in Column 4 of Coding Table for Note 10B5:

Responses to S10V27-S10V28 are missing, response to S10V07 is -6: I did not try to find a specialist in the civilian network, and responses to S10V12A-S10V12H are all unmarked.

Definition of “at least one is marked” in Column 4 of Coding Table for Note 10B5:

Any pattern of marks outside the definition “all are blank or N/A”.

**Coding Table for Note 10B6:
S10V07, S10V12A-S10V12H**

N10B6	S10V07 is:	S10V12A-S10V12H are:	S10V07 is coded as:	S10V12A-S10V12H are coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1-2: problem	Any value	Stands as original value	Stand as original value	
3	3: not a problem or -6: did not try to find a specialist from the civilian network	“All are unmarked”	Stands as original value	.N, valid skip	F
4	3: not a problem or -6: did not try to find a specialist from the civilian network	“At least one is marked”	., missing	Stand as original value	B
5	Missing response	“All are unmarked”	Stands as original value	., missing	F
6	Missing response	“At least one is marked”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are unmarked” in Coding Table for Note 10B6:
Responses to S10V12A-S10V12H are all unmarked.

Definition of “at least one is marked” in Coding Table for Note 10B6:
Any pattern of marks outside the definition “all are unmarked”.

**Coding Table for Note 10B7:
S10V01, S10V02, S10V05, S10V09**

N10B7	S10V01 is:	S10V02, S10V05, S10V09 are:	S10V01 is coded as:	S10V02, S10V05, S10V09 are coded as:	*
1	1-4: how much, or missing response	Any value	Stands as original value	Stand as original value	
2	-6: did not need healthcare in last 12 months	“All are blank or N/A”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	-6: did not need healthcare in last 12 months	“At least one is marked”	., missing	Stand as original value	B

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank or N/A” in Coding Table for Note 10B7:
Response to S10V02 is either missing or -6: I did not try to get healthcare from the civilian network, response to
S10V05 is either missing or -6: I did not try to see any network doctors, and response to S10V09 is missing.

Definition of “at least one is marked” in Coding Table for Note 10B7:
Any pattern of marks outside the definition “all are blank or N/A”.

**Coding Table for Note 10A1:
S10B02, S10B03-S10B04**

N10A1	S10B02 is:	S10B03-S10B04 are:	S10B02 is coded as:	S10B03-S10B04 are coded as:	*
1	1: yes	Any value	Stands as original value	., missing if -6; stand as original value otherwise	F
2	2: no or missing response	At least one is "marked"	1: yes	., missing if -6; stand as original value otherwise	B F
3	2: no	"All are blank" or "Blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"All are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10A1:
Responses to S10B03-S10B04 are all missing.

Definition of "blank or NA" in Coding Table for Note 10A1:
All of the following are true: S10B03-S10B04 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 10A1:
Any pattern of marks outside the definition "all are blank".

**Coding Table for Note 11:
H10032, H10033**

N11	H10032 is:	H10033 is:	H10032 is coded as:	H10033 is coded as:	*
1	1: yes	1-4: how often or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need care, tests, or treatment	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't need care, tests, or treatment or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 11B:
H10034B, H10034**

N11B	H10034B is:	H10034 is:	H10034B is coded as:	H10034 is coded as:	*
1	1: yes	1-4: how often or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't look for information	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't look for information or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 12:
H10035, H10036**

N12	H10035 is:	H10036 is:	H10035 is coded as:	H10036 is coded as:	*
1	1: yes	1-4: how often, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need service or equipment	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't need service or equipment, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 13:
H10037, H10038**

N13	H10037 is:	H10038 is:	H10037 is coded as:	H10038 is coded as:	*
1	1: yes	1-4: how often, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need prescription meds	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn't need prescription meds, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 14:
H10039, H10040-H10041**

N14	H10039 is:	H10040-H10041 are:	H10039 is coded as:	H10040-H10041 are coded as:	*
1	1: Yes	At least one is “marked” or “all are blank”	Stands as original value	., missing if –6; stand as original value otherwise	F
2	1: Yes or missing response	“Blank or NA”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: No or missing response	At least one is “marked”	1: Yes	., missing if –6; stand as original value otherwise	B F
4	2: No	“All are blank” or “blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 14:
Responses to H10040-H10041 are all missing.

Definition of “blank or NA” in Coding Table for Note 14:
All of the following are true: H10040-H10041 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 14:
Any pattern of marks outside the definitions “all are blank” and “blank or NA”.

**Coding Table for Note 15:
H10042, H10043**

N15	H10042 is:	H10043 is:	H10042 is coded as:	H10043 is coded as:	*
1	1: yes	1-4: how often, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn’t receive forms to fill out	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: didn’t receive forms to fill out, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16:
H10044, H10045-H10046**

N16	H10044 is:	H10045-H10046 are:	H10044 is coded as:	H10045-H10046 are coded as:	*
1	1: yes	At least one is “marked”, “all are blank” or “blank or don’t know”	Stands as original value	., missing if –6; stand as original value otherwise	F
2	1: yes, -5: don’t know, missing	“Blank or NA” or “NA or don’t know”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no, -5: don’t know, missing	At least one is “marked”	1: yes	., missing if –6; stand as original value otherwise	B F
4	2: no	None are “marked”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	-5: don’t know	“Blank or don’t know” or “all are blank”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	“Blank or don’t know” or “all are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 16:
Responses to H10045-H10046 are all missing.

Definition of “blank or NA” in Coding Table for Note 16:
Responses to H10045-H10046 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of “blank or don’t know” in Coding Table for Note 16:
Responses to H10045-H10046 are either all don’t know (-5) or a combination of missing and don’t know (-5).

Definition of “NA or don’t know” in Coding Table for Note 16:
Responses to H10045-H10046 are a combination of not applicable (-6) and don’t know (-5).

Definition of “marked” in Coding Table for Note 16:
Any pattern of marks outside the definitions “all are blank,” “blank or NA,” “blank or don’t know,” or “NA or don’t know”.

**Coding Table for Note 17:
H10051--H10055**

N17	H10051 is:	H10052 is:	H10053- H10055 are:	H10051 is coded as:	H10052 is coded as:	H10053- H10055 are coded as:	*
1	1: ever smoked	3 or 4: still smoke	Any value	Stands as original value	Stands as original value	Stand as original value	
2	1: ever smoked	2: quit, -5: don't know	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	F
3	1: ever smoked	Missing response	Any value	Stands as original value	Stands as original value	Stand as original value	
4	2: never, -5: don't know, missing response	3 or 4: still smoke	Any value	1: ever smoked	Stands as original value	Stand as original value	B
5	2: never or -5: don't know	2: quit, -5: don't know, or missing response	Any value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	.C, question should be skipped if marked; .N, valid skip if missing	F
6	Missing response	2: quit, missing response	Any = 2- 5: some visits	1: ever smoked	Stands as original value	Stand as original value	B
7	Missing response	2: quit, missing response	All = 1: None, -6: No visits, or missing	Stands as original value	Stands as original value	Stand as original value	
8	Missing response	-5: don't know	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 18:
H10053, H10054-H10055**

N18	H10053 is:	H10054 is:	H10055 is:	H10053 is coded as:	H10054 is coded as:	H10055 is coded as:	*
1	.N: No doctor visits	Any value	Any value	Stands as original value	.C, question should be skipped if marked; .N: No doctor visits, otherwise	.C, question should be skipped if marked; .N: No doctor visits, otherwise	F
2	.C: Should be skipped	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	1: None	.N: No doctor visits	.N: No doctor visits	Stands as original value	1: None	1: None	F
4	1: None	.N: No doctor visits	1-5, missing	Stands as original value	1: None	Stands as original value	F
5	1: None	1-5, missing	.N: No doctor visits	Stands as original value	Stands as original value	1: None	F
6	2-5: Visits, missing	.N: No doctor visits	.N: No doctor visits	Stands as original value	.:Missing	.:Missing	F
7	2-5: Visits, missing	.N: No doctor visits	1-5, missing	Stands as original value	.:Missing	Stands as original value	F
8	2-5: Visits, missing	1-5, missing	.N: No doctor visits	Stands as original value	Stands as original value	.:Missing	F
9	1-5: 0 or more visits	More visits than indicated by H10053	More visits than indicated by H10053	Stands as original value	H10053	H10053	F
10	1-5: 0 or more visits	More visits than indicated by H10053	Same or fewer visits than indicated by H10053 or missing	Stands as original value	H10053	Stands as original value	F
11	1-5: 0 or more visits	Same or fewer visits than indicated by H10053 or missing	More visits than indicated by H10053	Stands as original value	Stands as original value	H10053	F
12	1-5: 0 or more visits	Same or fewer visits than indicated by H10053 or missing	Same or fewer visits than indicated by H10053 or missing	Stands as original value	Stands as original value	Stands as original value	
13	Missing	1-5, missing	1-5, missing	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 19:

Note 19 (Part a)

H10056, SEX, XSEXA, H10057-H10062

N19A	H10056 is :	SEX is:	H10057--H10062 are:	XSEXA is coded as:
1	Missing response	F	Any marked	2, female
2	Missing response	F	All missing	2, female
3	Missing response	M	Any marked	1, male
4	Missing response	M	All missing	1, male
5	Missing response	Z, missing	Any marked	2, female
6	Missing response	Z	All missing	., missing value
7	Missing response	Missing	All missing	., missing value
8	1, male	Any value	All missing	1, male
9	1, male	F	Any marked	2, female
10	1, male	M, Z, or missing	Any marked	1, male
11	2, female	Any value	Any marked	2, female
12	2, female	M	All missing	1, male
13	2, female	F, Z, or missing	All missing	2, female

SEX (PNSEXCD) is the gender from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

XSEXA is the recoded gender variable after taking into account the self-reported response (H10056), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 19 (Part B):

XSEXA, H10057 - H10062

N19B	XSEXA is:	H10057--H10062 are:	H10057--H10062 are coded as:	*
1	1: Male	“All are blank”	.N, valid skip	F
2	1: Male	At least one is “marked”	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: Female	“All are blank” or at least one is “marked”	Stand as original value	
4	Missing	“All are blank” or at least one is “marked”	Missing value	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 19b:
All variables H10057--H10062 are missing.

Definition of “marked” in Coding Table for Note 19b:
Any pattern of marks outside the definition “all are blank”.

Coding Table for Note 20
XSEXA, AGE, H10058, H10059

N20	XSEXA is:	AGE is:	H10058 is:	H10059 is:	H10058 is coded as:	H10059 is coded as:	*
1	1: Male	Any value	.C, question should be skipped, or .N, valid skip	C, question should be skipped, or .N, valid skip	Stands as original value	Stands as original value	
2	2: Female	Any value	2: 40 or over	Any value	Stands as original value	Stands as original value	
3	2: Female	Any value	1: under 40	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	2: Female	Any value	Missing	Marked	2: >= 40	Stands as original value	B
5	2: Female	< 40	Missing	Missing	1: < 40	.N, valid skip	F B
6	2: Female	>=40	Missing	Missing	2: >= 40	Stands as original value	B
7	2: Female	Missing	Missing	Missing	Stands as original value	Stands as original value	
8	Missing	Any value	Missing	Missing	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

AGE (DAGEQY) is from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

**Coding Table for Note 21:
XSEXA, H10060, H10061, H10062**

N21	XSEXA is:	H10060 is:	H10061 is:	H10062 is:	H10060 is coded as:	H10061 is coded as:	H10062 is coded as:	*
1	1: Male	Any value	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
2	2: Female	1: pregnant now	1: first trimester	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: Female	1: pregnant now	2: second trimester	2: third trimester	Stands as original value	Stands as original value	∴ missing value	F
4	2: Female	1: pregnant now	2: second trimester	4: first trimester, 3: second trimester, 1: Did not receive prenatal care, or missing	Stands as original value	Stands as original value	Stands as original value	
5	2: Female	1: pregnant now	3: third trimester, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	
6	2: Female	2: pregnant in last 12 months	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	Stands as original value	F
7	2: Female	3: not pregnant in past 12 months	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
8	2: Female	Missing response	1: first trimester	Any value	1: pregnant now	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	B F

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 21 continued:

N21	XSEXA is:	H10060 is:	H10061 is:	H10062 is:	H10060 is coded as:	H10061 is coded as:	H10062 is coded as:	*
9	2: Female	Missing response	2: second trimester	2: third trimester	1: pregnant now	Stands as original value	.: missing value	B F
10	2: Female	Missing response	2: second trimester	4: first trimester, 3: second trimester, 1: Did not receive prenatal care, or missing	1: pregnant now	Stands as original value	Stands as original value	B
11	2: Female	Missing response	3: third trimester	Any value	1: pregnant now	Stands as original value	Stands as original value	B
12	2: Female	Missing response	Missing response	Any value	Stands as original value	Stands as original value	Stands as original value	F
13	Missing	Missing response	Marked, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 22:

H10065, H10066

N22	H10065 is:	H10066 is:	H10065 is coded as:	H10066 is coded as:	*
1	1: yes	Any value	Stands as original value	Stands as original value	
2	2: no or missing response	1: yes or 2: no	1: yes	Stands as original value	B
3	2: no	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 23:

H10067, H10068

N23	H10067 is:	H10068 is:	H10067 is coded as:	H10068 is coded as:	*
1	1: yes	Any value	Stands as original value	Stands as original value	
2	2: no or missing response	1: yes or 2: no	1: yes	Stands as original value	B
3	2: no	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 24:
H10071, H10071A-H10071E**

N24	H10071A is:	H10071B is:	H10071C is:	H10071D is:	H10071E is:	H10071 is coded as:	H10071A-E are coded as:	*
1	Any value	1: Marked	Any value	Any value	Any value	2: Yes, Mexican, Mexican American, Chicano	Stand as original value	F
2	Any value	2: Unmarked	Any value	Any value	1: Marked	5: Yes, other Spanish, Hispanic, or Latino	Stand as original value	F
3	Any value	2: Unmarked	1: Marked	Any value	2: Unmarked	3: Yes, Puerto Rican	Stand as original value	F
4	Any value	2: Unmarked	2: Unmarked	1: Marked	2: Unmarked	4: Yes, Cuban	Stand as original value	F
5	1: Marked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	1: No, not Spanish, Hispanic, or Latino	Stand as original value	F
6	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	∴ Missing	Stand as original value	F

* Indication of backward coding (B) or forward coding (F).

APPENDIX B
CODING SCHEME AND CODING TABLES – QUARTER III

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QUARTER III

2010 HEALTH CARE SURVEY OF DOD BENEFICIARIES (HCSDB) CODING SCHEME AND CODING TABLES

BASIC SAS AND ASCII/EBCDIC MISSING DATA AND NOT APPLICABLE CODES

SAS		ASCII/EBCDIC	
Numeric		Numeric	Description
.		-9	No response
.O		-7	Out of range error
.N		-6	Not applicable or valid skip
.D		-5	Scalable response of “don’t know” or “not sure”
.I		-4	Incomplete grid error
.T		-3	“I do not use other tobacco products.”
.C		-1	Question should have been skipped.

Missing values ‘.’ and incomplete grids ‘.I’ are encoded prior to implementation of the Coding Scheme Notes (see below).

**Coding Table for Note 1:
H10003, H10004**

N1	H10003 is:	H10004 is:	H10003 is coded as:	H10004 is coded as:	*
1	1-13: Health plan or -5: Not sure	Marked or missing response	Stands as original value	Stands as original value	
2	-6: No usage in past 12 months	Marked response	Stands as original value	.C, question should be skipped	F
3	-6: No usage in past 12 months	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Marked or missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 2:
H10006, H10007, H10008**

N2	H10006 is:	H10007-H10008 are:	H10006 is coded as:	H10007-H10008 are coded as:	*
1	1: Yes	“All are blank”	Stands as original value	Stand as original value	
2	1: Yes or missing response	“Blank or NA”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: Yes	“One marked, and one NA”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	1: Yes	At least one is “marked”	Stands as original value	Stand as original value	
5	2: No	“One marked, and one NA”	Stands as original value	.C, question should be skipped if marked	F
6	2: No or missing response	At least one is “marked”	1: Yes	., missing if -6; stand as original value otherwise	B F
7	2: No	“All are blank” or “Blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 2:
Responses to H10007-H10008 are all missing.

Definition of “Blank or NA” in Coding Table for Note 2:
All of the following are true: H10007-H10008 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 2:
H10007-H10008 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 2:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA”.

**Coding Table for Note 3:
H10009, H10010, H10011**

N3	H10009 is:	H10010-H10011 are:	H10009 is coded as:	H10010-H10011 are coded as:	*
1	1: Yes	“All are blank”	Stands as original value	Stand as original value	
2	1: Yes or missing response	“Blank or NA”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: Yes	“One marked and one NA”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	1: Yes	At least one is “marked”	Stands as original value	Stand as original value	
5	2: No	“One marked and one NA”	Stands as original value	.C, question should be skipped if marked	F
6	2: No or missing response	At least one is “marked”	1: Yes	., missing if -6; stand as original value otherwise	B F
7	2: No	“All are blank” or “blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 3:
Responses to H10010-H10011 are all missing.

Definition of “Blank or NA” in Coding Table for Note 3:
All of the following are true: H10010-H10011 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 3:
H10010-H10011 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 3:
Any pattern of marks outside the definitions “all are blank”, “one marked and one NA”, and “blank or NA”.

**Coding Table for Note 4:
H10013, H10014-H10018**

N4	H10013 is:	H10014-H10018 are:	H10013 is coded as:	H10014-H10018 are coded as:	*
1	1: None	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
2	2-7, or missing response	“Blank or NA”	1: None	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2-7	At least one is “marked” or “all are blank”	Stands as original value	., missing if –6; stand as original value otherwise	F
4	Missing response	“All are blank”	Stands as original value	Stand as original value	
5	Missing response	At least one is “marked”	Stands as original value	., missing if –6; stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 4:
Responses to H10014-H10018 are all missing.

Definition of “blank or NA” in Coding Table for Note 4:
All of the following are true: H10014-H10018 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 4:
Any pattern of marks outside the definitions “all are blank” and “blank or NA”.

**Coding Table for Note 5:
H10015, H10016-H10017**

N5	H10015 is:	H10016 is:	H10017 is:	H10015 is coded as:	H10016 is coded as:	H10017 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	2: No or missing response	1: Definitely yes 2: Somewhat yes	Any value	1: Yes	Stands as original value	Stands as original value	B
4	2: No or missing response	3: Somewhat no, 4: Definitely no, or missing	1: Definitely yes 2: Somewhat yes	1: Yes	Stands as original value	Stands as original value	B
5	2: No	3: Somewhat no, 4: Definitely no, or missing	3: Somewhat no, 4: Definitely no, or missing	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	3: Definitely no, 4: Somewhat no, or missing	3: Definitely no, 4: Somewhat no, or missing	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 5A1:
S10C09, S10C10**

N5A1	S10C09 is:	S10C10 is:	S10C09 is coded as:	S10C10 is coded as:	*
1	1: Yes	1-3: Marked or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need to get special medical equipment	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-3: Marked	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need to get special medical equipment or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 5A2:
S10C11, S10C12**

N5A2	S10C11 is:	S10C12 is:	S10C11 is coded as:	S10C12 is coded as:	*
1	1: Yes	1-3: Marked or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need to get special therapy	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-3: Marked	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need to get special therapy or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 5A3:
S10C13, S10C14**

N5A3	S10C13 is:	S10C14 is:	S10C13 is coded as:	S10C14 is coded as:	*
1	1: Yes	1-3: Marked or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need to get home health care	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-3: Marked	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need to get home health care or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 6_q3:
H10019, H10020-H10027, S10C01-S10C04, S10C06-S10C08, S10009**

N6_q3	H10019 is:	S10C01- S10C02, H10027 are:	S10C03, H10025- H10026, S10C06- S10C08, S10009 are:	S10C04, H10020- H10024 are:	H10019 is coded as:	S10C01- S10C02, H10027 are coded as:	S10C03- S10C04, H10020- H10026, S10C06- S10C08, S10009 are coded as:	*
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1	1: Yes	At least one is “marked” or “all are blank”	Any value	Any value	Stands as original value	., missing if -6; stand as original value otherwise	Stand as original value	F
2	1: Yes or missing response	“Blank or NA”	Any value	Any value	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: No or missing response	At least one is “marked”	Any value	Any value	1: Yes	., missing if -6; stand as original value otherwise	Stand as original value	B F
4	2: No or missing response	“All are blank”	Any value	“Any marked”	1: Yes	Stand as original value	Stand as original value	B
5	2: No	“All are blank”	Any value	“All are unmarked”	Stands as original value	.N, valid skip	.N, valid skip if missing; .C, question should be skipped if marked	F
6	2: No	“Blank or NA”	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	“All are blank”	Any value	“All are unmarked”	Stands as original value	Stand as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Column 3 of Coding Table for Note 6_q3:
Responses to S10C01-S10C02, H10027 are all missing.

Definition of “blank or NA” in Column 3 of Coding Table for Note 6_q3:
Responses to S10C01-S10C02, H10027 are a combination of not applicable (-6) or missing.

Definition of “marked” in Column 3 of Coding Table for Note 6_q3:
Any pattern of marks for S10C01-S10C02, H10027 outside the definitions “all are blank” or “blank or NA”.

Definition of “all are unmarked” in Column 5 of Coding Table for Note 6_q3:
All of the following are true: H10020 is either 0: None or missing and S10C04, H10021-H10024 are either not applicable (-6) or missing.

Definition of “any marked” in Column 5 of Coding Table for Note 6_q3:
Any pattern of marks for S10C04, H10020-H10024 outside the definition “all are unmarked”.

**Coding Table for Note 6A1:
S10C03, S10C04**

N6A1	S10C03 is:	S10C04 is:	S10C03 is coded as:	S10C04 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1: Yes	1: Yes, 2: no, or missing response	Stands as original value	Stands as original value	
3	1: Yes or missing response	-6: Don't have any health problems or don't have a personal doctor	2: No	.C, question should be skipped	B F
4	2: No or missing response	1: Yes or 2: no	1: Yes	Stands as original value	B
5	2: No	Missing response or -6: Don't have any health problems or don't have a personal doctor	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 7:
H10020, H10021-H10026**

N7	H10020 is:	H10021-H10024 are:	H10025- H10026 are:	H10020 is coded as:	H10021-H10026 are coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stand as original value	
2	0: None	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1-6, or missing response	“Blank or NA”	Any value	0: None	.N, valid skip if missing; .C, question should be skipped if marked	B F
4	1-6, or missing response	At least one is “marked” or “all are blank”	Any value	Stands as original value	., missing if –6; stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 7:
Responses to H10021-H10024 are all missing.

Definition of “blank or NA” in Coding Table for Note 7:
Responses to H10021-H10024 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks for H10021-H10024 outside the definitions “all are blank” and “blank or NA”.

**Coding Table for Note 8:
H10025, H10026**

N8	H10025 is:	H10026 is:	H10025 is coded as:	H10026 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1: Yes	Any value	Stands as original value	Stands as original value	
3	2: No or missing response	1, 2, 3, 4	1: Yes	Stands as original value	B
4	2: No	Missing response	Stands as original value	.N, valid skip	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 8B1:
S10C06, S10C07-S10C08**

N8B1	S10C06 is:	S10C07-S10C08 are:	S10C06 is coded as:	S10C07-S10C08 are coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stand as original value	
2	1: Yes	At least one is “marked” or “all are blank”	Stands as original value	., missing if -6; stand as original value otherwise	F
3	1: Yes or missing response	“Blank or NA”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
4	2: No or missing response	At least one is “marked”	1: Yes	., missing if -6; stand as original value otherwise	B F
5	2: No	“Blank or NA” or “all are blank”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 8B1:
Responses to S10C07-S10C08 are all missing.

Definition of “blank or NA” in Coding Table for Note 8B1:
Responses to S10C07-S10C08 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 8B1:
Any pattern of marks for S10C07-S10C08 outside the definitions “all are blank” and “blank or NA”.

**Coding Table for Note 8A1:
S10009, S10010**

N8A1	S10009 is:	S10010 is:	S10009 is coded as:	S10010 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: No	Any value	Stands as original value	Stands as original value	
4	Missing	Any value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 9:
H10028, H10029-H10031, S10C05**

N9	H10028 is:	H10029-H10031, S10C05 are:	H10028 is coded as:	H10029 is coded as:	H10030-H10031, S10C05 are coded as:	*
1	1: Yes	Any value	Stands as original value	., missing if -6; stands as original value otherwise	Stand as original value	F
2	2: No, missing	At least one is "marked"	1: Yes	., missing if -6; stands as original value otherwise	Stand as original value	B
3	2: No	"All are blank" or "blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"All are blank"	Stands as original value	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 9:
Responses to H10029-H10031, S10C05 are all missing.

Definition of "blank or NA" in Coding Table for Note 9:
All of the following are true: H10029 and H10031 are a combination of not applicable (-6) or missing; H10030 is either missing or 0: None; and S10C05 is missing.

Definition of "marked" in Coding Table for Note 9:
Any pattern of marks outside the definitions "all are blank" and "blank or NA".

**Coding Table for Note 10_q3:
H10030, S10C05, H10031**

N10_q3	H10030 is:	S10C05 is:	H10031 is:	H10030 is coded as:	S10C05 is coded as:	H10031 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1-5: Specialists	1-6: Marked	Any value	Stands as original value	Stands as original value	., missing if -6; stands as original value otherwise	F
3	1-5: Specialists	Missing response	0-10 or missing response	Stands as original value	Stands as original value	Stands as original value	
4	1-5: Specialists or missing response	Missing response	-6: Didn't see a specialist in the last 12 months	0: None	.N, valid skip	.C, question should be skipped	F
5	0: None	1-6: Marked	0-10 or missing response	., missing	Stands as original value	Stands as original value	B
6	0: None	1-6: Marked	-6: Didn't see a specialist in the last 12 months	Stands as original value	.C, question should be skipped	.C, question should be skipped	F
7	0: None	Missing response	Any value	Stands as original value	.N, valid skip	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	1-6: Marked	-6: Didn't see a specialist in the last 12 months	Stands as original value	Stands as original value	., missing	F
9	Missing response	Any value	0-10 or missing response	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 10A1:
S10B02, S10B03-S10B04**

N10A1	S10B02 is:	S10B03-S10B04 are:	S10B02 is coded as:	S10B03-S10B04 are coded as:	*
1	1: Yes	Any value	Stands as original value	., missing if -6; stand as original value otherwise	F
2	2: No or missing response	At least one is "marked"	1: Yes	., missing if -6; stand as original value otherwise	B F
3	2: No	"All are blank" or "blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"All are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10A1:
Responses to S10B03-S10B04 are all missing.

Definition of "blank or NA" in Coding Table for Note 10A1:
All of the following are true: S10B03-S10B04 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 10A1:
Any pattern of marks outside the definitions "all are blank" and "blank or NA".

**Coding Table for Note 11:
H10032, H10033**

N11	H10032 is:	H10033 is:	H10032 is coded as:	H10033 is coded as:	*
1	1: Yes	1-4: How often or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need care, tests, or treatment	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need care, tests, or treatment or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 11B:
H10034B, H10034**

N11B	H10034B is:	H10034 is:	H10034B is coded as:	H10034 is coded as:	*
1	1: Yes	1-4: How often or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't look for information	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't look for information or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 12:
H10035, H10036**

N12	H10035 is:	H10036 is:	H10035 is coded as:	H10036 is coded as:	*
1	1: Yes	1-4: How often, or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need service or equipment	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need service or equipment, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 13:
H10037, H10038**

N13	H10037 is:	H10038 is:	H10037 is coded as:	H10038 is coded as:	*
1	1: Yes	1-4: How often, or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need prescription meds	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need prescription meds, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 14:
H10039, H10040-H10041**

N14	H10039 is:	H10040-H10041 are:	H10039 is coded as:	H10040-H10041 are coded as:	*
1	1: Yes	At least one is “marked” or “all are blank”	Stands as original value	., missing if -6; stand as original value otherwise	F
2	1: Yes or missing response	“Blank or NA”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: No or missing response	At least one is “marked”	1: Yes	., missing if -6; stand as original value otherwise	B F
4	2: No	“All are blank” or “blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 14:
Responses to H10040-H10041 are all missing.

Definition of “blank or NA” in Coding Table for Note 14:
All of the following are true: H10040-H10041 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 14:
Any pattern of marks outside the definitions “all are blank” and “blank or NA”.

**Coding Table for Note 15:
H10042, H10043**

N15	H10042 is:	H10043 is:	H10042 is coded as:	H10043 is coded as:	*
1	1: Yes	1-4: How often, or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn’t receive forms to fill out	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn’t receive forms to fill out, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16:
H10044, H10045-H10046**

N16	H10044 is:	H10045-H10046 are:	H10044 is coded as:	H10045-H10046 are coded as:	*
1	1: Yes	At least one is “marked”, “all are blank” or “blank or don’t know”	Stands as original value	., missing if –6; stand as original value otherwise	F
2	1: Yes, -5: don’t know or missing response	“Blank or NA” or “NA or don’t know”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: No, -5: don’t know or missing response	At least one is “marked”	1: Yes	., missing if –6; stand as original value otherwise	B F
4	2: No	None are “marked”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	-5: Don’t know	“Blank or don’t know” or “all are blank”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	“Blank or don’t know” or “all are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 16:
Responses to H10045-H10046 are all missing.

Definition of “blank or NA” in Coding Table for Note 16:
Responses to H10045-H10046 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of “blank or don’t know” in Coding Table for Note 16:
Responses to H10045-H10046 are either all don’t know (-5) or a combination of missing and don’t know (-5).

Definition of “NA or don’t know” in Coding Table for Note 16:
Responses to H10045-H10046 are a combination of not applicable (-6) and don’t know (-5).

Definition of “marked” in Coding Table for Note 16:
Any pattern of marks outside the definitions “all are blank,” “blank or NA,” “blank or don’t know,” or “NA or don’t know”.

**Coding Table for Note 16A1:
S10Q01, S10Q02**

N16A1	S10Q01 is:	S10Q02 is:	S10Q01 is coded as:	S10Q02 is coded as:	*
1	1: Yes	1-4: Time since last blood stool test, missing response, or -5: don't know	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Never had a blood stool test	2: No	.C, question should be skipped	B F
3	2: No, -5: don't know, or missing response	1-4: Time since last blood stool test	1: Yes	Stands as original value	B
4	2: No, -5: don't know	Missing response, -6: never had a blood stool test, or -5: don't know	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response or -5: don't know	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16A2:
S10Q03, S10Q04-S10Q05**

N16A2	S10Q03 is:	S10Q04-S10Q05 are:	S10Q03 is coded as:	S10Q04-S10Q05 are coded as:	*
1	1: Yes	At least one is "marked", "unmarked or don't know", or "all are blank"	Stands as original value	Stand as original value	
2	1: Yes, -5: don't know, or missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: No, -5: don't know, or missing response	At least one is "marked"	1: Yes	Stand as original value	B
4	2: No	"Blank or NA", "unmarked or don't know", or "all are blank"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	-5: Don't know	"Unmarked or don't know" or "all are blank"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	"Unmarked or don't know" or "all are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 16A2:
Responses to S10Q04-S10Q05 are all missing.

Definition of "blank or NA" in Coding Table for Note 16A2:
Responses to S10Q04-S10Q05 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of "unmarked or don't know" in Coding Table for Note 16A2:
Responses to S10Q04-S10Q05 are either all don't know (-5) or a combination of don't know (-5) and either missing or not applicable (-6).

Definition of "marked" in Coding Table for Note 16A2:
Any pattern of marks outside the definitions "all are blank", "blank or NA", or "unmarked or don't know".

**Coding Table for Note 17:
H10051--H10055**

N17	H10051 is:	H10052 is:	H10053- H10055 are:	H10051 is coded as:	H10052 is coded as:	H10053- H10055 are coded as:	*
1	1: Ever smoked	3 or 4: Still smoke	Any value	Stands as original value	Stands as original value	Stand as original value	
2	1: Ever smoked	2: Quit, -5: don't know	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	F
3	1: Ever smoked	Missing response	Any value	Stands as original value	Stands as original value	Stand as original value	
4	2: Never, -5: don't know, missing response	3 or 4: Still smoke	Any value	1: Ever smoked	Stands as original value	Stand as original value	B
5	2: Never or -5: don't know	2: Quit, -5: don't know, or missing response	Any value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	.C, question should be skipped if marked; .N, valid skip if missing	F
6	Missing response	2: Quit, missing response	Any = 2- 5: Some visits	1: Ever smoked	Stands as original value	Stand as original value	B
7	Missing response	2: Quit, missing response	All = 1: None, -6: No visits, or missing	Stands as original value	Stands as original value	Stand as original value	
8	Missing response	-5: Don't know	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 18:
H10053, H10054-H10055**

N18	H10053 is:	H10054 is:	H10055 is:	H10053 is coded as:	H10054 is coded as:	H10055 is coded as:	*
1	.N: No doctor visits	Any value	Any value	Stands as original value	.C, question should be skipped if marked; .N: No doctor visits, otherwise	.C, question should be skipped if marked; .N: No doctor visits, otherwise	F
2	.C: Should be skipped	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	1: None	.N: No doctor visits	.N: No doctor visits	Stands as original value	1: None	1: None	F
4	1: None	.N: No doctor visits	1-5, missing	Stands as original value	1: None	Stands as original value	F
5	1: None	1-5, missing	.N: No doctor visits	Stands as original value	Stands as original value	1: None	F
6	2-5: Visits, missing	.N: No doctor visits	.N: No doctor visits	Stands as original value	.:Missing	.:Missing	F
7	2-5: Visits, missing	.N: No doctor visits	1-5, missing	Stands as original value	.:Missing	Stands as original value	F
8	2-5: Visits, missing	1-5, missing	.N: No doctor visits	Stands as original value	Stands as original value	.:Missing	F
9	1-5: 0 or more visits	More visits than indicated by H10053	More visits than indicated by H10053	Stands as original value	H10053	H10053	F
10	1-5: 0 or more visits	More visits than indicated by H10053	Same or fewer visits than indicated by H10053 or missing	Stands as original value	H10053	Stands as original value	F
11	1-5: 0 or more visits	Same or fewer visits than indicated by H10053 or missing	More visits than indicated by H10053	Stands as original value	Stands as original value	H10053	F
12	1-5: 0 or more visits	Same or fewer visits than indicated by H10053 or missing	Same or fewer visits than indicated by H10053 or missing	Stands as original value	Stands as original value	Stands as original value	
13	Missing	1-5, missing	1-5, missing	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 19:

Note 19 (Part a)

H10056, SEX, XSEX, H10057-H10062

N19A	H10056 is :	SEX is:	H10057--H10062 are:	XSEX is coded as:
1	Missing response	F	Any marked	2: Female
2	Missing response	F	All missing	2: Female
3	Missing response	M	Any marked	1: Male
4	Missing response	M	All missing	1: Male
5	Missing response	Z, missing	Any marked	2: Female
6	Missing response	Z	All missing	., missing value
7	Missing response	Missing	All missing	., missing value
8	1: Male	Any value	All missing	1: Male
9	1: Male	F	Any marked	2: Female
10	1: Male	M, Z, or missing	Any marked	1: Male
11	2: Female	Any value	Any marked	2: Female
12	2: Female	M	All missing	1: Male
13	2: Female	F, Z, or missing	All missing	2: Female

SEX (PNSEXCD) is the gender from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

XSEX is the recoded gender variable after taking into account the self-reported response (H10056), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 19 (Part B):

XSEX, H10057 - H10062

N19B	XSEX is:	H10057--H10062 are:	H10057--H10062 are coded as:	*
1	1: Male	“All are blank”	.N, valid skip	F
2	1: Male	At least one is “marked”	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: Female	“All are blank” or at least one is “marked”	Stand as original value	
4	Missing	“All are blank” or at least one is “marked”	Missing value	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 19b:
All variables H10057--H10062 are missing.

Definition of “marked” in Coding Table for Note 19b:
Any pattern of marks outside the definition “all are blank”.

Coding Table for Note 20
XSEXA, AGE, H10058, H10059

N20	XSEXA is:	AGE is:	H10058 is:	H10059 is:	H10058 is coded as:	H10059 is coded as:	*
1	1: Male	Any value	.C, question should be skipped, or .N, valid skip	C, question should be skipped, or .N, valid skip	Stands as original value	Stands as original value	
2	2: Female	Any value	2: 40 or over	Any value	Stands as original value	Stands as original value	
3	2: Female	Any value	1: Under 40	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	2: Female	Any value	Missing	Marked	2: >= 40	Stands as original value	B
5	2: Female	< 40	Missing	Missing	1: < 40	.N, valid skip	F B
6	2: Female	>=40	Missing	Missing	2: >= 40	Stands as original value	B
7	2: Female	Missing	Missing	Missing	Stands as original value	Stands as original value	
8	Missing	Any value	Missing	Missing	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

AGE (DAGEQY) is from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

**Coding Table for Note 21:
XSEXA, H10060, H10061, H10062**

N21	XSEXA is:	H10060 is:	H10061 is:	H10062 is:	H10060 is coded as:	H10061 is coded as:	H10062 is coded as:	*
1	1: Male	Any value	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
2	2: Female	1: Pregnant now	1: First trimester	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: Female	1: Pregnant now	2: Second trimester	2: Third trimester	Stands as original value	Stands as original value	∴ missing value	F
4	2: Female	1: Pregnant now	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or missing	Stands as original value	Stands as original value	Stands as original value	
5	2: Female	1: Pregnant now	3: Third trimester, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	
6	2: Female	2: Pregnant in last 12 months	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	Stands as original value	F
7	2: Female	3: Not pregnant in past 12 months	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
8	2: Female	Missing response	1: First trimester	Any value	1: Pregnant now	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	B F

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 21 continued:

N21	XSEXA is:	H10060 is:	H10061 is:	H10062 is:	H10060 is coded as:	H10061 is coded as:	H10062 is coded as:	*
9	2: Female	Missing response	2: Second trimester	2: Third trimester	1: Pregnant now	Stands as original value	.: missing value	B F
10	2: Female	Missing response	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or missing	1: Pregnant now	Stands as original value	Stands as original value	B
11	2: Female	Missing response	3: Third trimester	Any value	1: Pregnant now	Stands as original value	Stands as original value	B
12	2: Female	Missing response	Missing response	Any value	Stands as original value	Stands as original value	Stands as original value	F
13	Missing	Missing response	Marked, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 21A1:
H10064, S10C15-S10C16**

N21A1	H10064 is:	S10C15-S10C16 are:	H10064 is coded as:	S10C15-S10C16 are coded as:	*
1	1: Yes	Any value	Stands as original value	Stand as original value	
2	2: No or missing response	“At least one marked yes”	1: Yes	Stand as original value	B
3	2: No	“Both marked no or missing”	Stands as original value	N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	“Both marked no or missing”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “at least one marked yes” in Coding Table for Note 21A1:
At least one of the responses to S10C15-S10C16 are marked 1: yes.

Definition of “both marked no or missing” in Coding Table for Note 21A1:
Both responses to S10C15-S10C16 are either missing or marked 2: no.

**Coding Table for Note 22:
H10065, H10066**

N22	H10065 is:	H10066 is:	H10065 is coded as:	H10066 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or missing response	1: Yes or 2: no	1: Yes	Stands as original value	B
3	2: No	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 23:
H10067, H10068**

N23	H10067 is:	H10068 is:	H10067 is coded as:	H10068 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or missing response	1: Yes or 2: no	1: Yes	Stands as original value	B
3	2: No	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 24:
H10071, H10071A-H10071E**

N24	H10071A is:	H10071B is:	H10071C is:	H10071D is:	H10071E is:	H10071 is coded as:	H10071A-E are coded as:	*
1	Any value	1: Marked	Any value	Any value	Any value	2: Yes, Mexican, Mexican American, Chicano	Stand as original value	F
2	Any value	2: Unmarked	Any value	Any value	1: Marked	5: Yes, other Spanish, Hispanic, or Latino	Stand as original value	F
3	Any value	2: Unmarked	1: Marked	Any value	2: Unmarked	3: Yes, Puerto Rican	Stand as original value	F
4	Any value	2: Unmarked	2: Unmarked	1: Marked	2: Unmarked	4: Yes, Cuban	Stand as original value	F
5	1: Marked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	1: No, not Spanish, Hispanic, or Latino	Stand as original value	F
6	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	∴ Missing	Stand as original value	F

* Indication of backward coding (B) or forward coding (F).

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APPENDIX B

CODING SCHEME AND CODING TABLES – QUARTER IV

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QUARTER IV

2010 HEALTH CARE SURVEY OF DOD BENEFICIARIES (HCSDB) CODING SCHEME AND CODING TABLES

BASIC SAS AND ASCII/EBCDIC MISSING DATA AND NOT APPLICABLE CODES

SAS		ASCII/EBCDIC	
Numeric		Numeric	Description
.		-9	No response
.O		-7	Out of range error
.N		-6	Not applicable or valid skip
.D		-5	Scalable response of “don’t know” or “not sure”
.I		-4	Incomplete grid error
.T		-3	“I do not use other tobacco products.”
.C		-1	Question should have been skipped.

Missing values ‘.’ and incomplete grids ‘.I’ are encoded prior to implementation of the Coding Scheme Notes (see below).

**Coding Table for Note 1:
H10003, H10004**

N1	H10003 is:	H10004 is:	H10003 is coded as:	H10004 is coded as:	*
1	1-13: Health plan or -5: Not sure	Marked or missing response	Stands as original value	Stands as original value	
2	-6: No usage in past 12 months	Marked response	Stands as original value	.C, question should be skipped	F
3	-6: No usage in past 12 months	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Marked or missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 2:
H10006, H10007, H10008**

N2	H10006 is:	H10007-H10008 are:	H10006 is coded as:	H10007-H10008 are coded as:	*
1	1: Yes	“All are blank”	Stands as original value	Stand as original value	
2	1: Yes or missing response	“Blank or NA”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: Yes	“One marked, and one NA”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	1: Yes	At least one is “marked”	Stands as original value	Stand as original value	
5	2: No	“One marked, and one NA”	Stands as original value	.C, question should be skipped if marked	F
6	2: No or missing response	At least one is “marked”	1: Yes	., missing if -6; stand as original value otherwise	B F
7	2: No	“All are blank” or “Blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 2:
Responses to H10007-H10008 are all missing.

Definition of “Blank or NA” in Coding Table for Note 2:
All of the following are true: H10007-H10008 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 2:
H10007-H10008 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 2:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA”.

**Coding Table for Note 3:
H10009, H10010, H10011**

N3	H10009 is:	H10010-H10011 are:	H10009 is coded as:	H10010-H10011 are coded as:	*
1	1: Yes	“All are blank”	Stands as original value	Stand as original value	
2	1: Yes or missing response	“Blank or NA”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	1: Yes	“One marked and one NA”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	1: Yes	At least one is “marked”	Stands as original value	Stand as original value	
5	2: No	“One marked and one NA”	Stands as original value	.C, question should be skipped if marked	F
6	2: No or missing response	At least one is “marked”	1: Yes	., missing if -6; stand as original value otherwise	B F
7	2: No	“All are blank” or “blank or NA”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 3:
Responses to H10010-H10011 are all missing.

Definition of “Blank or NA” in Coding Table for Note 3:
All of the following are true: H10010-H10011 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 3:
H10010-H10011 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 3:
Any pattern of marks outside the definitions “all are blank”, “one marked and one NA”, and “blank or NA”.

**Coding Table for Note 4:
H10013, H10014-H10018**

N4	H10013 is:	H10014-H10018 are:	H10013 is coded as:	H10014-H10018 are coded as:	*
1	1: None	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
2	2-7, or missing response	“Blank or NA”	1: None	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2-7	At least one is “marked” or “all are blank”	Stands as original value	., missing if -6; stand as original value otherwise	F
4	Missing response	“All are blank”	Stands as original value	Stand as original value	
5	Missing response	At least one is “marked”	Stands as original value	., missing if -6; stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 4:
Responses to H10014-H10018 are all missing.

Definition of “blank or NA” in Coding Table for Note 4:
All of the following are true: H10014-H10018 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 4:
Any pattern of marks outside the definitions “all are blank” and “blank or NA”.

**Coding Table for Note 5:
H10015, H10016-H10017**

N5	H10015 is:	H10016 is:	H10017 is:	H10015 is coded as:	H10016 is coded as:	H10017 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	2: No or missing response	1: Definitely yes 2: Somewhat yes	Any value	1: Yes	Stands as original value	Stands as original value	B
4	2: No or missing response	3: Somewhat no, 4: Definitely no, or missing	1: Definitely yes 2: Somewhat yes	1: Yes	Stands as original value	Stands as original value	B
5	2: No	3: Somewhat no, 4: Definitely no, or missing	3: Somewhat no, 4: Definitely no, or missing	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	3: Definitely no, 4: Somewhat no, or missing	3: Definitely no, 4: Somewhat no, or missing	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 6:
H10019, H10020-H10027, S10009**

N6	H10019 is:	H10020- H10024 are:	H10025- H10026, S10009 are:	H10027 is:	H10019 is coded as:	H10020- H10026, S10009 are coded as:	H10027 is coded as:	*
1	1: Yes	Any value	Any value	Any value	Stands as original value	Stand as original value	.. missing if -6; stands as original value otherwise	F
2	2: No or missing response	Any value	Any value	0-10	1: Yes	Stand as original value	Stands as original value	B
3	2: No or missing response	At least one is "marked"	Any value	Missing response	1: Yes	Stand as original value	Stands as original value	B
4	2: No	At least one is "marked"	Any value	-6: No personal doctor	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.C, question should be skipped	F
5	2: No	"Blank or NA"	Any value	-6: No personal doctor or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Any value	Any value	-6: No personal doctor	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.C, question should be skipped	B F
7	Missing response	"Blank or NA"	Any value	Missing response	Stands as original value	Stand as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "blank or NA" in Coding Table for Note 6:

All of the following are true: H10020 is either 0: None or missing and H10021-H10024 are either not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 6:

Any pattern of marks for H10020-H10024 outside the definition "blank or NA".

**Coding Table for Note 7:
H10020, H10021-H10026**

N7	H10020 is:	H10021-H10024 are:	H10025-H10026 are:	H10020 is coded as:	H10021-H10026 are coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stand as original value	
2	0: None	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1-6, or missing response	“Blank or NA”	Any value	0: None	.N, valid skip if missing; .C, question should be skipped if marked	B F
4	1-6, or missing response	At least one is “marked” or “all are blank”	Any value	Stands as original value	., missing if -6; stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 7:
Responses to H10021-H10024 are all missing.

Definition of “blank or NA” in Coding Table for Note 7:
Responses to H10021-H10024 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks for H10021-H10024 outside the definitions “all are blank” and “blank or NA”.

**Coding Table for Note 8:
H10025, H10026**

N8	H10025 is:	H10026 is:	H10025 is coded as:	H10026 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1: Yes	Any value	Stands as original value	Stands as original value	
3	2: No or missing response	1, 2, 3, 4	1: Yes	Stands as original value	B
4	2: No	Missing response	Stands as original value	.N, valid skip	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 8A1:
S10009, S10010**

N8A1	S10009 is:	S10010 is:	S10009 is coded as:	S10010 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: No	Any value	Stands as original value	Stands as original value	
4	Missing	Any value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 9:
H10028, H10029-H10031**

N9	H10028 is:	H10029-H10031 are:	H10028 is coded as:	H10029 is coded as:	H10030-H10031 are coded as:	*
1	1: Yes	Any value	Stands as original value	., missing if -6; stands as original value otherwise	Stand as original value	F
2	2: No, missing	At least one is "marked"	1: Yes	., missing if -6; stands as original value otherwise	Stand as original value	B
3	2: No	"All are blank" or "blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"All are blank"	Stands as original value	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 9:
Responses to H10029-H10031 are all missing.

Definition of "blank or NA" in Coding Table for Note 9:
All of the following are true: H10029 and H10031 are a combination of not applicable (-6) or missing, H10030 is either missing or 0: None.

Definition of "marked" in Coding Table for Note 9:
Any pattern of marks outside the definitions "all are blank" and "blank or NA".

**Coding Table for Note 10:
H10030, H10031**

N10	H10030 is:	H10031 is:	H10030 is coded as:	H10031 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	
2	1-5: Specialists	0-10 or missing response	Stands as original value	Stands as original value	
3	1-5: Specialists or missing response	-6: Didn't see a specialist in the last 12 months	0: None	.C, question should be skipped	B F
4	0: None	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	0-10 or missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 10A1:
S10B02, S10B03-S10B04**

N10A1	S10B02 is:	S10B03-S10B04 are:	S10B02 is coded as:	S10B03-S10B04 are coded as:	*
1	1: Yes	Any value	Stands as original value	., missing if -6; stand as original value otherwise	F
2	2: No or missing response	At least one is "marked"	1: Yes	., missing if -6; stand as original value otherwise	B F
3	2: No	"All are blank" or "blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"All are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10A1:
Responses to S10B03-S10B04 are all missing.

Definition of "blank or NA" in Coding Table for Note 10A1:
All of the following are true: S10B03-S10B04 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 10A1:
Any pattern of marks outside the definitions "all are blank" and "blank or NA".

**Coding Table for Note 11:
H10032, H10033**

N11	H10032 is:	H10033 is:	H10032 is coded as:	H10033 is coded as:	*
1	1: Yes	1-4: How often or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need care, tests, or treatment	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need care, tests, or treatment or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 11B:
H10034B, H10034**

N11B	H10034B is:	H10034 is:	H10034B is coded as:	H10034 is coded as:	*
1	1: Yes	1-4: How often or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't look for information	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't look for information or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 12:
H10035, H10036**

N12	H10035 is:	H10036 is:	H10035 is coded as:	H10036 is coded as:	*
1	1: Yes	1-4: How often, or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need service or equipment	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need service or equipment, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 13:
H10037, H10038**

N13	H10037 is:	H10038 is:	H10037 is coded as:	H10038 is coded as:	*
1	1: Yes	1-4: How often, or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't need prescription meds	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't need prescription meds, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 14:
H10039, H10040-H10041**

N14	H10039 is:	H10040-H10041 are:	H10039 is coded as:	H10040-H10041 are coded as:	*
1	1: Yes	At least one is "marked" or "all are blank"	Stands as original value	., missing if -6; stand as original value otherwise	F
2	1: Yes or missing response	"Blank or NA"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: No or missing response	At least one is "marked"	1: Yes	., missing if -6; stand as original value otherwise	B F
4	2: No	"All are blank" or "blank or NA"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	"All are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 14:

Responses to H10040-H10041 are all missing.

Definition of "blank or NA" in Coding Table for Note 14:

All of the following are true: H10040-H10041 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 14:

Any pattern of marks outside the definitions "all are blank" and "blank or NA".

**Coding Table for Note 15:
H10042, H10043**

N15	H10042 is:	H10043 is:	H10042 is coded as:	H10043 is coded as:	*
1	1: Yes	1-4: How often, or missing response	Stands as original value	Stands as original value	
2	1: Yes or missing response	-6: Didn't receive forms to fill out	2: No	.C, question should be skipped	B F
3	2: No or missing response	1-4: How often	1: Yes	Stands as original value	B
4	2: No	-6: Didn't receive forms to fill out, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16:
H10044, H10045-H10046**

N16	H10044 is:	H10045-H10046 are:	H10044 is coded as:	H10045-H10046 are coded as:	*
1	1: Yes	At least one is "marked", "all are blank" or "blank or don't know"	Stands as original value	., missing if -6; stand as original value otherwise	F
2	1: Yes, -5: don't know or missing response	"Blank or NA" or "NA or don't know"	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: No, -5: don't know or missing response	At least one is "marked"	1: Yes	., missing if -6; stand as original value otherwise	B F
4	2: No	None are "marked"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	-5: Don't know	"Blank or don't know" or "all are blank"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	"Blank or don't know" or "all are blank"	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 16:

Responses to H10045-H10046 are all missing.

Definition of "blank or NA" in Coding Table for Note 16:

Responses to H10045-H10046 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of "blank or don't know" in Coding Table for Note 16:

Responses to H10045-H10046 are either all don't know (-5) or a combination of missing and don't know (-5).

Definition of "NA or don't know" in Coding Table for Note 16:

Responses to H10045-H10046 are a combination of not applicable (-6) and don't know (-5).

Definition of "marked" in Coding Table for Note 16:

Any pattern of marks outside the definitions "all are blank," "blank or NA," "blank or don't know," or "NA or don't know".

**Coding Table for Note 16C1:
S10R01, S10R02**

N16C1	S10R01 is:	S10R02 is:	S10R01 is coded as:	S10R02 is coded as:	*
1	1: Yes or missing response	Any value	Stands as original value	Stands as original value	
2	2: No	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16C2:
S10R03A-S10R03E, S10R04A-S10R04G, S10R05-S10R15**

N16C2	S10R03A is:	S10R03B-S10R03E, S10R04A-S10R04G, S10R05-S10R15 are:	S10R03A is coded as:	S10R03B-S10R03E, S10R04A-S10R04G, S10R05-S10R15 are coded as:	*
1	1: Marked	At least one is "marked"	2: Unmarked	Stand as original value	B
2	1: Marked	"All are blank"	Stands as original value	.N, valid skip	F
3	2: Unmarked	Any value	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 16C2:

Responses to S10R03B-S10R03E and S10R04A-S10R04G are all 2: unmarked and responses to S10R05-S10R15 are all missing.

Definition of "marked" in Coding Table for Note 16C2:

Any pattern of marks outside the definition "all are blank".

**Coding Table for Note 16C3:
S10R06, S10R07-S10R10**

N16C3	S10R06 is:	S10R07-S10R10 are:	S10R06 is coded as:	S10R07-S10R10 are coded as:	*
1	.N, valid skip	.N, valid skip	Stands as original value	Stand as original value	
2	1: Yes or missing response	Any value	Stands as original value	Stand as original value	
3	2: No	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16C4:
S10R11, S10R12-S10R15**

N16C4	S10R11 is:	S10R12-S10R15 are:	S10R11 is coded as:	S10R12-S10R15 are coded as:	*
1	.N, valid skip	.N, valid skip	Stands as original value	Stand as original value	
2	1: Yes or missing response	Any value	Stands as original value	Stand as original value	
3	2: No	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 17:
H10051--H10055**

N17	H10051 is:	H10052 is:	H10053- H10055 are:	H10051 is coded as:	H10052 is coded as:	H10053- H10055 are coded as:	*
1	1: Ever smoked	3 or 4: Still smoke	Any value	Stands as original value	Stands as original value	Stand as original value	
2	1: Ever smoked	2: Quit, -5: don't know	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	F
3	1: Ever smoked	Missing response	Any value	Stands as original value	Stands as original value	Stand as original value	
4	2: Never, -5: don't know, missing response	3 or 4: Still smoke	Any value	1: Ever smoked	Stands as original value	Stand as original value	B
5	2: Never or -5: don't know	2: Quit, -5: don't know, or missing response	Any value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	.C, question should be skipped if marked; .N, valid skip if missing	F
6	Missing response	2: Quit, missing response	Any = 2-5: Some visits	1: Ever smoked	Stands as original value	Stand as original value	B
7	Missing response	2: Quit, missing response	All = 1: None, -6: No visits, or missing	Stands as original value	Stands as original value	Stand as original value	
8	Missing response	-5: Don't know	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked; .N, valid skip if missing	F

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 18:
H10053, H10054-H10055**

N18	H10053 is:	H10054 is:	H10055 is:	H10053 is coded as:	H10054 is coded as:	H10055 is coded as:	*
1	.N: No doctor visits	Any value	Any value	Stands as original value	.C, question should be skipped if marked; .N: No doctor visits, otherwise	.C, question should be skipped if marked; .N: No doctor visits, otherwise	F
2	.C: Should be skipped	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	1: None	.N: No doctor visits	.N: No doctor visits	Stands as original value	1: None	1: None	F
4	1: None	.N: No doctor visits	1-5, missing	Stands as original value	1: None	Stands as original value	F
5	1: None	1-5, missing	.N: No doctor visits	Stands as original value	Stands as original value	1: None	F
6	2-5: Visits, missing	.N: No doctor visits	.N: No doctor visits	Stands as original value	.:Missing	.:Missing	F
7	2-5: Visits, missing	.N: No doctor visits	1-5, missing	Stands as original value	.:Missing	Stands as original value	F
8	2-5: Visits, missing	1-5, missing	.N: No doctor visits	Stands as original value	Stands as original value	.:Missing	F
9	1-5: 0 or more visits	More visits than indicated by H10053	More visits than indicated by H10053	Stands as original value	H10053	H10053	F
10	1-5: 0 or more visits	More visits than indicated by H10053	Same or fewer visits than indicated by H10053 or missing	Stands as original value	H10053	Stands as original value	F
11	1-5: 0 or more visits	Same or fewer visits than indicated by H10053 or missing	More visits than indicated by H10053	Stands as original value	Stands as original value	H10053	F
12	1-5: 0 or more visits	Same or fewer visits than indicated by H10053 or missing	Same or fewer visits than indicated by H10053 or missing	Stands as original value	Stands as original value	Stands as original value	
13	Missing	1-5, missing	1-5, missing	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 19:

Note 19 (Part a)

H10056, SEX, XSEXA, H10057-H10062

N19A	H10056 is :	SEX is:	H10057--H10062 are:	XSEXA is coded as:
1	Missing response	F	Any marked	2: Female
2	Missing response	F	All missing	2: Female
3	Missing response	M	Any marked	1: Male
4	Missing response	M	All missing	1: Male
5	Missing response	Z, missing	Any marked	2: Female
6	Missing response	Z	All missing	., missing value
7	Missing response	Missing	All missing	., missing value
8	1: Male	Any value	All missing	1: Male
9	1: Male	F	Any marked	2: Female
10	1: Male	M, Z, or missing	Any marked	1: Male
11	2: Female	Any value	Any marked	2: Female
12	2: Female	M	All missing	1: Male
13	2: Female	F, Z, or missing	All missing	2: Female

SEX (PNSEXCD) is the gender from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

XSEXA is the recoded gender variable after taking into account the self-reported response (H10056), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 19 (Part B):

XSEXA, H10057 - H10062

N19B	XSEXA is:	H10057--H10062 are:	H10057--H10062 are coded as:	*
1	1: Male	“All are blank”	.N, valid skip	F
2	1: Male	At least one is “marked”	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: Female	“All are blank” or at least one is “marked”	Stand as original value	
4	Missing	“All are blank” or at least one is “marked”	Missing value	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 19b:
All variables H10057--H10062 are missing.

Definition of “marked” in Coding Table for Note 19b:
Any pattern of marks outside the definition “all are blank”.

Coding Table for Note 20
XSEXA, AGE, H10058, H10059

N20	XSEXA is:	AGE is:	H10058 is:	H10059 is:	H10058 is coded as:	H10059 is coded as:	*
1	1: Male	Any value	.C, question should be skipped, or .N, valid skip	C, question should be skipped, or .N, valid skip	Stands as original value	Stands as original value	
2	2: Female	Any value	2: 40 or over	Any value	Stands as original value	Stands as original value	
3	2: Female	Any value	1: Under 40	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	2: Female	Any value	Missing	Marked	2: >= 40	Stands as original value	B
5	2: Female	< 40	Missing	Missing	1: < 40	.N, valid skip	F B
6	2: Female	>=40	Missing	Missing	2: >= 40	Stands as original value	B
7	2: Female	Missing	Missing	Missing	Stands as original value	Stands as original value	
8	Missing	Any value	Missing	Missing	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

AGE (DAGEQY) is from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

**Coding Table for Note 21:
XSEXA, H10060, H10061, H10062**

N21	XSEXA is:	H10060 is:	H10061 is:	H10062 is:	H10060 is coded as:	H10061 is coded as:	H10062 is coded as:	*
1	1: Male	Any value	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
2	2: Female	1: Pregnant now	1: First trimester	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: Female	1: Pregnant now	2: Second trimester	2: Third trimester	Stands as original value	Stands as original value	∴ missing value	F
4	2: Female	1: Pregnant now	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or missing	Stands as original value	Stands as original value	Stands as original value	
5	2: Female	1: Pregnant now	3: Third trimester, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	
6	2: Female	2: Pregnant in last 12 months	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	Stands as original value	F
7	2: Female	3: Not pregnant in past 12 months	Any value	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
8	2: Female	Missing response	1: First trimester	Any value	1: Pregnant now	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	B F

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 21 continued:

N21	XSEXA is:	H10060 is:	H10061 is:	H10062 is:	H10060 is coded as:	H10061 is coded as:	H10062 is coded as:	*
9	2: Female	Missing response	2: Second trimester	2: Third trimester	1: Pregnant now	Stands as original value	.: missing value	B F
10	2: Female	Missing response	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or missing	1: Pregnant now	Stands as original value	Stands as original value	B
11	2: Female	Missing response	3: Third trimester	Any value	1: Pregnant now	Stands as original value	Stands as original value	B
12	2: Female	Missing response	Missing response	Any value	Stands as original value	Stands as original value	Stands as original value	F
13	Missing	Missing response	Marked, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 22:

H10065, H10066

N22	H10065 is:	H10066 is:	H10065 is coded as:	H10066 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or missing response	1: Yes or 2: no	1: Yes	Stands as original value	B
3	2: No	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 23:

H10067, H10068

N23	H10067 is:	H10068 is:	H10067 is coded as:	H10068 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or missing response	1: Yes or 2: no	1: Yes	Stands as original value	B
3	2: No	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 24:
H10071, H10071A-H10071E**

N24	H10071A is:	H10071B is:	H10071C is:	H10071D is:	H10071E is:	H10071 is coded as:	H10071A-E are coded as:	*
1	Any value	1: Marked	Any value	Any value	Any value	2: Yes, Mexican, Mexican American, Chicano	Stand as original value	F
2	Any value	2: Unmarked	Any value	Any value	1: Marked	5: Yes, other Spanish, Hispanic, or Latino	Stand as original value	F
3	Any value	2: Unmarked	1: Marked	Any value	2: Unmarked	3: Yes, Puerto Rican	Stand as original value	F
4	Any value	2: Unmarked	2: Unmarked	1: Marked	2: Unmarked	4: Yes, Cuban	Stand as original value	F
5	1: Marked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	1: No, not Spanish, Hispanic, or Latino	Stand as original value	F
6	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	∴ Missing	Stand as original value	F

* Indication of backward coding (B) or forward coding (F).

APPENDIX C

**MAPPING THE MILITARY TREATMENT FACILITY (MTF) TO THE
CATCHMENT AREA**

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GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
0001	0001	FOX AHC-REDSTONE ARSENAL	820
0003	0003	LYSTER AHC-FT. RUCKER	1052
0004	0004	42ND MEDICAL GROUP-MAXWELL	937
0005	0005	BASSETT ACH-FT. WAINWRIGHT	362
0005	0202	FT. GREELY AHC	1
0005	0204	TMC FT. RICHARDSON	440
0005	6033	KAMISH CLINIC-FT. WAINWRIGHT	407
0006	0006	3rd MED GRP-ELMENDORF	1035
0008	0008	R W BLISS AHC-FT. HUACHUCA	1079
0009	0009	56th MED GRP-LUKE	931
0010	0010	355th MED GRP-DAVIS MONTHAN	1067
0013	0013	19th MEDICAL GROUP-LITTLE ROCK	1131
0014	0014	60th MED GRP-TRAVIS	891
0014	0395	62nd MED SQUAD-MCCHORD	149
0018	0018	30th MED GRP-VANDENBERG	1098
0019	0019	95th MED GRP-EDWARDS	982
0024	0024	NH CAMP PENDLETON	959
0024	0208	BMC MCB CAMP PENDLETON	51
0024	0209	BMC BARSTOW	3
0024	0210	BMC EDSON RANGE ANNEX	34
0024	0269	BMC YUMA	55
0024	1657	BMC CAMP DELMAR MCB	8
0024	1659	BMC SAN ONOFRE MCB	35
0024	6216	TRICARE OUTPATIENT-OCEANSIDE	58
0026	0026	NBHC PORT HUENEME	1050
0028	0028	NH LEMOORE	1015
0028	0319	NBHC FALLON	152
0029	0029	NMC SAN DIEGO	766
0029	0230	NBHC MCRD SAN DIEGO	35
0029	0232	BMC MCAS MIRAMAR	116
0029	0233	NBHC CORONADO	1
0029	0239	NBHC EL CENTRO	14
0029	0409	SD E COUNTY PRIMARY CARE CLIN	39
0029	0414	BMA NALF SAN CLEMENTE	2
0029	0701	NBHC NAVSTA SAN DIEGO	87
0029	6207	TRICARE OUTPATIENT-CLAIREMONT	158
0030	0030	NH TWENTYNINE PALMS	1095
0030	0212	NBHC NAVWPNCEN CHINA LAKE	111
0032	0032	EVANS ACH-FT. CARSON	341
0032	6102	PREMIER ARMY HEALTH CLINIC	33
0032	7293	TMC 10-FT. CARSON	174
0032	7300	TMC 9-FT. CARSON	339
0032	7301	WARRIOR CLINIC-FT. CARSON	257
0033	0033	10th MED GROUP-USAF ACADEMY CO	956
0037	0037	WALTER REED AMC-WASHINGTON DC	678
0037	0256	DILorenzo TRICARE HEALTH CLIN	484
0037	7298	DILorenzo TRICARE HLTH CLN ARL	61
0038	0038	NH PENSACOLA	505
0038	0107	NBHC NSA MID-SOUTH	108
0038	0260	NBHC NAS PENSACOLA	99
0038	0261	NBHC MILTON WHITING FIELD	60
0038	0262	NBHC NATTC PENSACOLA	30
0038	0265	NBHC NAVCOASTSYSC PANAMA CITY	32
0038	0297	NACC NEW ORLEANS	10
0038	0316	NBHC GULFPORT	145

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
0038	0317	NBHC MERIDIAN	42
0038	0436	NBHC NAS BELLE CHASE	64
0038	0513	NBHC NTTC PENSACOLA	20
0038	1990	BMC NAVSUPPACT EAST BANK	25
0039	0039	NH JACKSONVILLE	711
0039	0266	NBHC NAS JACKSONVILLE	118
0039	0275	NBHC ALBANY	29
0039	0276	NBHC ATHENS	19
0039	0277	NBHC MARIETTA	1
0039	0337	NBHC KINGS BAY	163
0039	0517	NBHC KEY WEST	68
0042	0042	96th MED GRP-EGLIN	970
0043	0043	325th MED GRP-TYNDALL	964
0045	0045	6th MED GRP-MACDILL	961
0046	0046	45th MED GRP-PATRICK	858
0047	0047	EISENHOWER AMC-FT. GORDON	548
0047	0273	AHC FT. MCPHERSON	182
0047	1550	TMC-4-STOCKADE-FT. GORDON	185
0047	7197	CONNELLY HLTH CLINIC-FT.GORDON	64
0047	7239	SOUTHCOM CLINIC	71
0047	8924	RODRIGUEZ ARMY HEALTH CLINIC	37
0048	0048	MARTIN ACH-FT. BENNING	656
0048	1315	CTMC-FT. BENNING	242
0048	1316	WINDER FPC-FT. BENNING	166
0048	1555	TMC-5-FT. BENNING	43
0049	0049	WINN ACH-FT. STEWART	316
0049	0272	TUTTLE AHC-HUNTER ARMY AIRFLD	363
0049	7443	LLOYD C. HAWKS TMC	490
0051	0051	78th MED GRP-ROBINS	975
0052	0052	TRIPLER AMC-FT SHAFTER	624
0052	0437	SCHOFIELD BARRACKS AHC	208
0052	0534	TMC-1-SCHOF 25th-SCHOFIELD BKS	366
0053	0053	366th MED GRP-MOUNTAIN HOME	1120
0055	0055	375th MED GRP-SCOTT	1010
0056	0056	NHC GREAT LAKES	810
0056	1660	NBHC NCTC INPR GREAT LAKES	88
0056	1959	NBHC NTC GREAT LAKES	132
0057	0057	IRWIN ACH-FT. RILEY	428
0057	1539	AVIATION CLINIC-FT. RILEY	141
0057	7289	CTMC-FT. RILEY	535
0057	7337	CALDWELL CLINIC	92
0058	0058	MUNSON AHC-FT. LEAVENWORTH	941
0058	7297	RICHARDS-GEBAUR CL-KANSAS CITY	95
0060	0060	BLANCHFIELD ACH-FT. CAMPBELL	398
0060	1506	AVIATION MEDICINE CLINIC	209
0060	7307	LA POINTE HEALTH CLINIC	586
0061	0061	IRELAND ACH-FT. KNOX	994
0061	0290	ROCK ISLAND ARSENAL AHC	20
0061	1237	TMC CONTRACT SPARTA-FT. MCCOY	54
0061	6017	CAMP ATTERBURY OUTPATIENT CLIN	26
0061	7198	NELSON MEDICAL CLINIC-FT.KNOX	2
0062	0062	2nd MED GRP-BARKSDALE	1071
0064	0064	BAYNE-JONES ACH-FT. POLK	1167
0066	0066	779th MED GRP-ANDREWS	1012
0067	0067	NNMC BETHESDA	913

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
0067	0301	NBHC INDIAN HEAD	4
0067	0322	BMC COLTS NECK EARLE	3
0067	0347	BMC WILLOW GROVE	90
0067	0386	NBHC DAHLGREN	21
0067	0401	BMC LAKEHURST	2
0067	0404	BMC SUGAR GROVE	2
0067	0522	NBHC ANDREWS AFB	15
0067	0703	NBHC WASHINGTON NAVY YARD	28
0068	0068	NHC PATUXENT RIVER	766
0068	0301	NBHC INDIAN HEAD	78
0068	0386	NBHC DAHLGREN	100
0068	0522	NBHC ANDREWS AFB	130
0069	0069	KIMBROUGH AMB CAR CEN-FT MEADE	529
0069	0308	KIRK AHC-ABERDEEN PRVNG GD	161
0069	0309	BARQUIST ARMY HEALTH CLINIC	133
0069	0352	DUNHAM AHC-CARLISLE BARRACKS	190
0069	0545	OHC EDGEWOOD ARS	25
0073	0073	81st MED GRP-KEESLER	1044
0074	0074	14th MED GRP-COLUMBUS	1265
0075	0075	L. WOOD ACH-FT. LEONARD WOOD	1161
0076	0076	509th MED GRP-WHITEMAN	1056
0077	0077	341st MED GRP-MALMSTROM	1078
0078	0078	55th MED GRP-OFFUTT	980
0079	0079	99th MED GRP-O'CALLAGHAN HOSP	963
0083	0083	377th MED GRP-KIRTLAND	932
0086	0081	PATTERSON AHC-FT. MONMOUTH	146
0086	0086	KELLER ACH-WEST POINT	460
0086	1815	MOLOGNE TMC	350
0086	7154	MILLS TROOP CLINIC-FT. DIX	266
0089	0089	WOMACK AMC-FT. BRAGG	244
0089	7143	ROBINSON CLINIC-FT. BRAGG	385
0089	7286	JOEL CLINIC-FT. BRAGG	192
0089	7294	CLARK CLINIC-FT. BRAGG	419
0091	0091	NH CAMP LEJEUNE	1142
0091	0333	BMC MCAS NEW RIVER	69
0091	1662	BMC CAMP GEIGER MCB	19
0091	1663	BMC CAMP JOHNSON MCB	10
0091	1664	BMC COURTHOUSE BAY MCB	18
0091	1992	BMC BLDG 15 MCB CAMP LEJEUNE	40
0091	1995	BMC FRENCH CREEK MCB	4
0092	0092	NHC CHERRY POINT	1030
0094	0094	5th MED GRP-MINOT	1174
0095	0095	88th MED GRP-WRIGHT-PATTERSON	907
0096	0096	72nd MED GRP-TINKER	1085
0098	0098	REYNOLDS ACH-FT. SILL	1169
0100	0035	NBHC GROTON	404
0100	0100	NAVAL HLTH CLINIC NEW ENGLAND	359
0100	0299	NBHC NAS BRUNSWICK	92
0100	0321	NBHC PORTSMOUTH	141
0100	0328	NBHC SARATOGA SPRINGS	157
0101	0101	20th MED GRP-SHAW	1117
0103	0103	NHC CHARLESTON	151
0103	0511	NBHC WPNSTA CHARLESTON	1017
0104	0104	NH BEAUFORT	911
0104	0358	NBHC MCRD PARRIS ISLAND	212

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
0104	0360	NBHC MCAS BEAUFORT	46
0105	0105	MONCRIEF ACH-FT. JACKSON	1112
0108	0108	WILLIAM BEAUMONT AMC-FT. BLISS	223
0108	0327	AHC MCAFEE-WHITE SANDS MSL RAN	41
0108	1481	SOLDIER FAMILY MED CLIN BIGGS	279
0108	1617	TMC MED EXAM-FT. BLISS	608
0109	0109	BROOKE AMC-FT. SAM HOUSTON	959
0110	0110	DARNALL AMC-FT. HOOD	123
0110	1592	MONROE CONSOLIDATED-FT. HOOD	323
0110	1597	TMC-10-FT. HOOD	3
0110	1599	TMC-12-FT. HOOD	83
0110	1601	TMC-14-FT. HOOD	18
0110	6014	CHARLES MOORE HLTH CLN-FT HOOD	258
0110	6076	WEST FORT HOOD CLINIC	137
0110	7236	BENNETT FAM CARE CLINIC-HOOD	288
0112	0112	7th MED GRP-DYESS	1150
0113	0113	82nd MED GRP-SHEPPARD	991
0117	0117	59th MED WING-LACKLAND	826
0118	0118	NHC CORPUS CHRISTI	627
0118	0369	NBHC KINGSVILLE	116
0118	0370	NBHC FORT WORTH	324
0118	0656	NBHC INGLESIDE	67
0119	0119	75th MED GRP-HILL	1049
0120	0120	1st MED GRP-LANGLEY	1078
0121	0121	MCDONALD AHC-FT. EUSTIS	573
0121	0372	MONROE AHC-FT. MONROE	131
0121	0464	AHC FT. STORY	75
0121	0554	TMC-2-FT. EUSTIS	273
0122	0122	KENNER AHC-FT. LEE	1032
0123	0123	DEWITT ACH-FT. BELVOIR	419
0123	0390	ANDREW RADER AHC-FT. MYER	141
0123	6200	FAMILY HEALTH CENTER FAIRFAX	165
0123	6201	FAMILY HEALTH CENTER WOODBRIDG	231
0124	0124	NMC PORTSMOUTH	823
0124	0380	NBHC NSY NORFOLK	12
0124	0381	NBHC YORKTOWN	37
0124	0382	NBHC DAM NECK	66
0124	0519	NBHC CHESAPEAKE	15
0124	6214	TRICARE OUTPATIENT CL VA BEACH	134
0124	6221	TRICARE OUTPATIENT CHESAPEAKE	119
0125	0125	MADIGAN AMC-FT. LEWIS	436
0125	0247	MONTEREY AHC	86
0125	1485	US ARMY HEALTH CLN-MCCHORD AFB	57
0125	1646	NISQUALLY FAM MED CL-FT. LEWIS	342
0125	1649	OKUBO FAM PRACT CLIN-FT LEWIS	198
0126	0126	NH BREMERTON	725
0126	0398	NBHC PUGET SOUND	12
0126	1656	NBHC SUBASE BANGOR	175
0126	7138	NHCL EVERETT	134
0127	0127	NH OAK HARBOR	1127
0128	0128	92nd MED GRP-FAIRCHILD	985
0129	0129	90th MED GRP-F.E. WARREN	1153
0131	0131	WEED ACH-FT. IRWIN	1246
0131	0206	YUMA PROVING GROUND AHC	39
0231	0231	NBHC NAS NORTH ISLAND	1188

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
0248	0248	61st MED GROUP-LOS ANGELES	1277
0252	0252	21st MED GRP-PETERSON	1012
0280	0280	NHC HAWAII	749
0280	0284	NBHC NAVCAMS EASTPAC	90
0280	0285	BMC MCAS KANEOHE BAY	308
0280	1987	NBHC MCB CAMP H.M. SMITH	56
0306	0306	NHC ANNAPOLIS	506
0306	0322	BMC COLTS NECK EARLE	62
0306	0348	BMC MECHANICSBURG	1
0306	0401	BMC LAKEHURST	41
0306	0525	NBHC BANCROFT HALL	631
0310	0310	66th MED GRP-HANSCOM	1101
0330	0330	GUTHRIE AHC-FT. DRUM	372
0330	7113	CONNOR CTMC	913
0364	0364	17th MED GRP-GOODFELLOW	1062
0366	0366	12th MED GRP-RANDOLPH	888
0378	0378	NBHC LITTLE CREEK	1104
0385	0385	NHC QUANTICO	718
0385	0404	BMC SUGAR GROVE	13
0385	0703	NBHC WASHINGTON NAVY YARD	142
0385	1670	BMC OCS BROWN FIELD	79
0385	1671	NBHC THE BASIC SCHOOL	211
0387	0387	NBHC OCEANA	1105
0405	0405	NBHC MAYPORT	1107
0407	0407	NBHC NTC SAN DIEGO	1030
0508	0508	NBHC NAVSTA SEWELLS	1424
0606	0606	HEIDELBERG MEDDAC	361
0606	1003	AHC MANNHEIM	243
0606	7152	AHC COLEMAN	100
0606	8987	AHC PATCH BKS	458
0607	0607	LANDSTUHL REGIONAL MEDCEN	274
0607	0611	VICENZA MEDICAL SERVICES CNTR	208
0607	0614	AHC SHAPE	62
0607	1126	AHC BAUMHOLDER	258
0607	1128	AHC KAISERSLAUTERN	114
0607	1147	AHC WIESBADEN	217
0607	1154	AHC LIVORNO	25
0607	8977	AHC BRUSSELS	26
0609	0609	BAVARIA MEDDAC	7
0609	1013	AHC BAMBERG	206
0609	1014	AHC ILLESHEIM	68
0609	1015	AHC KATTERBACH	143
0609	1016	AHC GRAFENWOEHR	251
0609	1017	AHC VILSECK	274
0609	1019	AHC HOHENFELS	120
0609	1124	AHC SCHWEINFURT	230
0612	0612	BRIAN ALLGOOD AHC-SEOUL	299
0612	1156	USAHC CAMP STANLEY	41
0612	1157	USAHC CAMP CASEY	229
0612	8903	USAHC CAMP HUMPHREYS	193
0612	8907	USAHC-CAMP WALKER	85
0612	8912	USAHC-CAMP RED CLOUD	74
0612	8913	USAHC-CAMP CARROLL	86
0612	8916	USAHC-YONGSAN	319
0612	8917	USAHC-CAMP LONG	3

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
0620	0620	NH GUAM-AGANA	842
0620	0871	BMC NAVSTA GUAM	220
0621	0621	NH OKINAWA	1116
0621	0861	BMC MCAS FUTENMA	8
0621	0862	BMC EVANS-CAMP FOSTER	71
0621	1269	BMC CAMP KINSER	41
0621	7032	BMC CAMP BUSH/COURTNEY	63
0621	7033	BMC CAMP HANSEN	1
0622	0622	NH YOKOSUKA	733
0622	0625	BMC IWAKUNI	196
0622	0852	NBHC COMFLEACT SASEBO	144
0622	0853	NBHC NAF ATSUGI	200
0622	7288	BMA HARIO SASEBO JP	1
0622	8934	NBHC NSF DIEGO GARCIA	9
0622	8938	BMC YOKOHOMA	4
0622	8939	BMC CHINHEA	14
0633	0633	48th MED GRP-LAKENHEATH	959
0633	0653	422 ABS MED FLT-CROUGHTON	63
0633	0814	423RD ABS OL-A-RAF UPWOOD	128
0633	7234	MENWITH HILL MEDICAL CENTER	46
0633	7235	426TH ABS MED AID STATION	1
0804	0804	18th MED GRP-KADENA AB	1274
0805	0799	470 MED FLT-GEILENKIRCHEN	260
0805	0805	52nd MED GROUP-SPANGDAHLEM	1026
0806	0806	86th MEDICAL GROUP-RAMSTEIN	1290
1350	1350	37th MED GROUP	187
6215	6215	TRICARE OUTPATIENT-CHULA VISTA	712
7139	7139	1st SPEC OPS MED GRP-HURLBURT	1166
9001	0014	60th MED GRP-TRAVIS	1
9001	0029	NMC SAN DIEGO	1
9001	0034	USCG CLINIC NEW LONDON	55
9001	0036	436th MED GRP-DOVER	270
9001	0037	WALTER REED AMC-WASHINGTON DC	309
9001	0050	23rd MED GRP-MOODY	3
9001	0055	375th MED GRP-SCOTT	4
9001	0059	22nd MED GRP-MCCONNELL	4
9001	0060	BLANCHFIELD ACH-FT. CAMPBELL	395
9001	0061	IRELAND ACH-FT. KNOX	206
9001	0066	779th MED GRP-ANDREWS	252
9001	0067	NNMC BETHESDA	385
9001	0069	KIMBROUGH AMB CAR CEN-FT MEADE	2
9001	0084	49th MED GRP-HOLLOMAN	1
9001	0085	27th SPEC OPS MED GRP-CANNON	1
9001	0086	KELLER ACH-WEST POINT	193
9001	0089	WOMACK AMC-FT. BRAGG	624
9001	0090	4th MED GRP-SEYMOUR JOHNSON	289
9001	0091	NH CAMP LEJEUNE	507
9001	0093	319th MED GRP-GRAND FORKS	2
9001	0095	88th MED GRP-WRIGHT-PATTERSON	188
9001	0097	97th MED GRP-ALTUS	1
9001	0114	47th MED GRP-LAUGHLIN	2
9001	0120	1st MED GRP-LANGLEY	424
9001	0121	MCDONALD AHC-FT. EUSTIS	1
9001	0122	KENNER AHC-FT. LEE	2
9001	0123	DEWITT ACH-FT. BELVOIR	584

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
9001	0124	NMC PORTSMOUTH	1300
9001	0203	354th MED GRP-EIELSON	1
9001	0287	15th MED GRP-HICKAM	1
9001	0326	87th MED GRP-MCGUIRE	385
9001	0335	43RD MEDICAL GROUP-POPE	189
9001	0338	71st MED GRP-VANCE	4
9001	0356	628th MED GRP-CHARLESTON	1
9001	0390	ANDREW RADER AHC-FT. MYER	2
9001	0413	579TH MED GROUP-BOLLING	159
9001	0417	USCG CLINIC KETCHIKAN	2
9001	0418	USCG CLINIC ALAMEDA	1
9001	0419	USCG CLINIC PETALUMA	12
9001	0420	USCG CLINIC DISTRICT OF COLUMB	82
9001	0422	USCG CLINIC CLEARWATER	1
9001	0423	USCG CLINIC NEW ORLEANS	3
9001	0424	USCG CLINIC BALTIMORE	27
9001	0425	USCG CLINIC CAPE COD	27
9001	0426	USCG CLINIC BOSTON	30
9001	0427	USCG CLINIC TRAVERSE CITY	6
9001	0428	USCG CLINIC CAPE MAY	95
9001	0430	USCG CLINIC ELIZABETH CITY	28
9001	0432	USCG CLINIC PORTSMOUTH	69
9001	0433	USCG CLINIC YORKTOWN	20
9001	0435	USCG CLINIC SEATTLE	2
9001	0610	BG CRAWFORD SAMS AHC-CAMP ZAMA	3
9001	0615	NH GUANTANAMO BAY	7
9001	0617	NH NAPLES	7
9001	0618	NH ROTA	2
9001	0624	NH SIGONELLA	6
9001	0629	65th MED GRP-LAJES	1
9001	0637	8th MED GRP-KUNSAN AB	1
9001	0638	51st MED GRP-OSAN AB	3
9001	0639	35th MED GRP-MISAWA	7
9001	0640	374th MED GRP-YOKOTA AB	3
9001	0781	NORTHEAST WEST VIRGINIA	67
9001	0782	WESTERN WEST VIRGINIA	304
9001	0783	EASTERN MISSOURI-ST LOUIS AREA	226
9001	0789	IOWA-QUAD CITIES AREA	29
9001	0802	36th MED GRP-ANDERSEN	2
9001	0808	31st MED GRP-AVIANO	1
9001	0858	BMC NAVSUPPACT SOUDA BAY	3
9001	0874	NBHC GAETA	2
9001	0907	CONNECTICUT	400
9001	0908	DELAWARE	147
9001	0914	ILLINOIS	1480
9001	0915	INDIANA	963
9001	0918	KENTUCKY	395
9001	0920	MAINE	349
9001	0921	MARYLAND	259
9001	0922	MASSACHUSETTS	536
9001	0923	MICHIGAN	830
9001	0930	NEW HAMPSHIRE	213
9001	0931	NEW JERSEY	605
9001	0933	NEW YORK	1276
9001	0934	NORTH CAROLINA	1164

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
9001	0936	OHIO	1023
9001	0939	PENNSYLVANIA	1493
9001	0940	RHODE ISLAND	147
9001	0946	VERMONT	152
9001	0950	WISCONSIN	732
9001	0953	PUERTO RICO	1
9001	0970	OTHER CARIBBEAN	1
9001	0983	OTHER PACIFIC	1
9001	0995	NORTHERN VIRGINIA	133
9001	0996	SOUTHERN VIRGINIA	571
9001	0999	UNKNOWN LOCATION	236
9001	1170	NBHC NSA BAHRAIN	25
9001	5195	USCG CLINIC DETROIT	18
9001	5196	USCG CLINIC NEW YORK	30
9001	5197	USCG CLINIC SAN JUAN	1
9001	6200	FAMILY HEALTH CENTER FAIRFAX	3
9001	6201	FAMILY HEALTH CENTER WOODBRIDG	1
9001	6899	OTHER LATIN AMERICA NON TGRO	1
9001	7043	USCG CLINIC HONOLULU	3
9001	7048	USCG CLINIC BASE MIAMI	5
9001	7082	USCG CLINIC GALVESTON	2
9001	7200	460th MED GRP-BUCKLEY AFB	11
9001	7286	JOEL CLINIC-FT. BRAGG	4
9001	7294	CLARK CLINIC-FT. BRAGG	3
9002	0004	42ND MEDICAL GROUP-MAXWELL	1
9002	0015	9th MED GRP-BEALE	3
9002	0034	USCG CLINIC NEW LONDON	5
9002	0036	436th MED GRP-DOVER	5
9002	0038	NH PENSACOLA	264
9002	0039	NH JACKSONVILLE	750
9002	0042	96th MED GRP-EGLIN	301
9002	0045	6th MED GRP-MACDILL	4
9002	0047	EISENHOWER AMC-FT. GORDON	146
9002	0048	MARTIN ACH-FT. BENNING	227
9002	0049	WINN ACH-FT. STEWART	363
9002	0050	23rd MED GRP-MOODY	410
9002	0059	22nd MED GRP-MCCONNELL	3
9002	0064	BAYNE-JONES ACH-FT. POLK	74
9002	0073	81st MED GRP-KEESLER	139
9002	0084	49th MED GRP-HOLLOMAN	1
9002	0090	4th MED GRP-SEYMOUR JOHNSON	8
9002	0097	97th MED GRP-ALTUS	146
9002	0098	REYNOLDS ACH-FT. SILL	148
9002	0101	20th MED GRP-SHAW	1
9002	0104	NH BEAUFORT	82
9002	0105	MONCRIEF ACH-FT. JACKSON	298
9002	0106	28th MED GRP-ELLSWORTH	2
9002	0109	BROOKE AMC-FT. SAM HOUSTON	398
9002	0110	DARNALL AMC-FT. HOOD	625
9002	0113	82nd MED GRP-SHEPPARD	3
9002	0114	47th MED GRP-LAUGHLIN	131
9002	0117	59th MED WING-LACKLAND	244
9002	0130	USCG CLINIC KODIAK	1
9002	0203	354th MED GRP-EIELSON	2
9002	0287	15th MED GRP-HICKAM	11

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
9002	0326	87th MED GRP-MCGUIRE	14
9002	0335	43RD MEDICAL GROUP-POPE	7
9002	0338	71st MED GRP-VANCE	141
9002	0356	628th MED GRP-CHARLESTON	398
9002	0366	12th MED GRP-RANDOLPH	2
9002	0413	579TH MED GROUP-BOLLING	14
9002	0416	USCG CLINIC MOBILE	70
9002	0417	USCG CLINIC KETCHIKAN	1
9002	0418	USCG CLINIC ALAMEDA	1
9002	0419	USCG CLINIC PETALUMA	4
9002	0420	USCG CLINIC DISTRICT OF COLUMB	1
9002	0421	USCG CLINIC AIR STATION MIAMI	36
9002	0422	USCG CLINIC CLEARWATER	63
9002	0423	USCG CLINIC NEW ORLEANS	35
9002	0428	USCG CLINIC CAPE MAY	12
9002	0430	USCG CLINIC ELIZABETH CITY	3
9002	0432	USCG CLINIC PORTSMOUTH	3
9002	0433	USCG CLINIC YORKTOWN	1
9002	0434	USCG CLINIC PORT ANGELES	2
9002	0435	USCG CLINIC SEATTLE	1
9002	0610	BG CRAWFORD SAMS AHC-CAMP ZAMA	1
9002	0615	NH GUANTANAMO BAY	7
9002	0617	NH NAPLES	2
9002	0624	NH SIGONELLA	2
9002	0629	65th MED GRP-LAJES	1
9002	0635	39th MED GROUP-INCIRLIK	2
9002	0637	8th MED GRP-KUNSAN AB	3
9002	0638	51st MED GRP-OSAN AB	8
9002	0639	35th MED GRP-MISAWA	2
9002	0640	374th MED GRP-YOKOTA AB	1
9002	0787	GEORGIA-FORMER NOBLE CATCHMENT	18
9002	0802	36th MED GRP-ANDERSEN	2
9002	0808	31st MED GRP-AVIANO	2
9002	0858	BMC NAVSUPPACT SOUDA BAY	2
9002	0901	ALABAMA	1402
9002	0904	ARKANSAS	736
9002	0911	GEORGIA	1971
9002	0925	MISSISSIPPI	995
9002	0937	OKLAHOMA	686
9002	0941	SOUTH CAROLINA	835
9002	0943	TENNESSEE	1510
9002	0953	PUERTO RICO	3
9002	0971	CENTRAL AMERICA	1
9002	0987	EASTERN FLORIDA	2221
9002	0988	WESTERN FLORIDA	235
9002	0989	EASTERN LOUISIANA	413
9002	0990	WESTERN LOUISIANA	422
9002	0993	EASTERN TEXAS	3317
9002	0999	UNKNOWN LOCATION	191
9002	1170	NBHC NSA BAHRAIN	12
9002	1350	37th MED GROUP	2
9002	5191	USCG CLINIC ST PETERSBURG	6
9002	5197	USCG CLINIC SAN JUAN	1
9002	7042	USCG CLINIC BORINQUEN	1
9002	7046	USCG CLINIC SAN PEDRO	1

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
9002	7048	USCG CLINIC BASE MIAMI	47
9002	7082	USCG CLINIC GALVESTON	37
9002	7200	460th MED GRP-BUCKLEY AFB	9
9002	7286	JOEL CLINIC-FT. BRAGG	1
9003	0005	BASSETT ACH-FT. WAINWRIGHT	44
9003	0006	3rd MED GRP-ELMENDORF	121
9003	0009	56th MED GRP-LUKE	5
9003	0010	355th MED GRP-DAVIS MONTHAN	6
9003	0014	60th MED GRP-TRAVIS	421
9003	0015	9th MED GRP-BEALE	252
9003	0018	30th MED GRP-VANDENBERG	2
9003	0024	NH CAMP PENDLETON	797
9003	0028	NH LEMOORE	161
9003	0029	NMC SAN DIEGO	1146
9003	0030	NH TWENTYNINE PALMS	69
9003	0032	EVANS ACH-FT. CARSON	479
9003	0033	10th MED GROUP-USAF ACADEMY CO	9
9003	0034	USCG CLINIC NEW LONDON	6
9003	0036	436th MED GRP-DOVER	1
9003	0050	23rd MED GRP-MOODY	1
9003	0052	TRIPLER AMC-FT SHAFTER	585
9003	0053	366th MED GRP-MOUNTAIN HOME	37
9003	0057	IRWIN ACH-FT. RILEY	160
9003	0059	22nd MED GRP-MCCONNELL	290
9003	0075	L. WOOD ACH-FT. LEONARD WOOD	135
9003	0077	341st MED GRP-MALMSTROM	1
9003	0078	55th MED GRP-OFFUTT	4
9003	0079	99th MED GRP-O'CALLAGHAN HOSP	300
9003	0084	49th MED GRP-HOLLOMAN	252
9003	0085	27th SPEC OPS MED GRP-CANNON	222
9003	0090	4th MED GRP-SEYMOUR JOHNSON	1
9003	0093	319th MED GRP-GRAND FORKS	132
9003	0106	28th MED GRP-ELLSWORTH	276
9003	0108	WILLIAM BEAUMONT AMC-FT. BLISS	286
9003	0114	47th MED GRP-LAUGHLIN	3
9003	0125	MADIGAN AMC-FT. LEWIS	722
9003	0126	NH BREMERTON	175
9003	0127	NH OAK HARBOR	88
9003	0128	92nd MED GRP-FAIRCHILD	2
9003	0130	USCG CLINIC KODIAK	33
9003	0131	WEED ACH-FT. IRWIN	40
9003	0203	354th MED GRP-EIELSON	153
9003	0231	NBHC NAS NORTH ISLAND	1
9003	0287	15th MED GRP-HICKAM	363
9003	0326	87th MED GRP-MCGUIRE	9
9003	0335	43RD MEDICAL GROUP-POPE	2
9003	0338	71st MED GRP-VANCE	2
9003	0356	628th MED GRP-CHARLESTON	1
9003	0407	NBHC NTC SAN DIEGO	1
9003	0413	579TH MED GROUP-BOLLING	4
9003	0416	USCG CLINIC MOBILE	5
9003	0417	USCG CLINIC KETCHIKAN	13
9003	0418	USCG CLINIC ALAMEDA	97
9003	0419	USCG CLINIC PETALUMA	56
9003	0420	USCG CLINIC DISTRICT OF COLUMB	2

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
9003	0422	USCG CLINIC CLEARWATER	1
9003	0425	USCG CLINIC CAPE COD	1
9003	0427	USCG CLINIC TRAVERSE CITY	1
9003	0428	USCG CLINIC CAPE MAY	23
9003	0430	USCG CLINIC ELIZABETH CITY	2
9003	0431	USCG CLINIC ASTORIA	22
9003	0432	USCG CLINIC PORTSMOUTH	1
9003	0434	USCG CLINIC PORT ANGELES	15
9003	0435	USCG CLINIC SEATTLE	57
9003	0437	SCHOFIELD BARRACKS AHC	1
9003	0615	NH GUANTANAMO BAY	4
9003	0617	NH NAPLES	7
9003	0624	NH SIGONELLA	3
9003	0629	65th MED GRP-LAJES	1
9003	0635	39th MED GROUP-INCIRLIK	1
9003	0637	8th MED GRP-KUNSAN AB	1
9003	0638	51st MED GRP-OSAN AB	6
9003	0639	35th MED GRP-MISAWA	2
9003	0640	374th MED GRP-YOKOTA AB	1
9003	0784	WESTERN MISSOURI	838
9003	0785	ARIZONA-EXCLUDING YUMA AREA	1180
9003	0786	YUMA ARIZONA AREA	183
9003	0788	IOWA-EXCLUDING QUAD CITIES	474
9003	0802	36th MED GRP-ANDERSEN	7
9003	0808	31st MED GRP-AVIANO	4
9003	0858	BMC NAVSUPACT SOUDA BAY	3
9003	0902	ALASKA	106
9003	0906	COLORADO	591
9003	0912	HAWAII	82
9003	0917	KANSAS	597
9003	0924	MINNESOTA	832
9003	0927	MONTANA	256
9003	0928	NEBRASKA	410
9003	0929	NEVADA	193
9003	0932	NEW MEXICO	393
9003	0935	NORTH DAKOTA	237
9003	0938	OREGON	760
9003	0942	SOUTH DAKOTA	236
9003	0945	UTAH	540
9003	0948	WASHINGTON	943
9003	0951	WYOMING	175
9003	0953	PUERTO RICO	2
9003	0969	CANADA	1
9003	0972	SOUTH AMERICA	1
9003	0973	NORTHERN IDAHO	54
9003	0974	SOUTHERN IDAHO	294
9003	0975	U.S. VIRGIN ISLANDS	1
9003	0985	NORTHERN CALIFORNIA	1132
9003	0986	SOUTHERN CALIFORNIA	1582
9003	0994	WESTERN TEXAS	5
9003	0999	UNKNOWN LOCATION	265
9003	1153	BMC CAPODICHINO	2
9003	1170	NBHC NSA BAHRAIN	31
9003	1179	NBHC NAVWPNSFAC ST. MAWGAN	2
9003	1485	US ARMY HEALTH CLN-MCCHORD AFB	2

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
9003	5195	USCG CLINIC DETROIT	1
9003	5196	USCG CLINIC NEW YORK	1
9003	6207	TRICARE OUTPATIENT-CLAIREMONT	1
9003	6215	TRICARE OUTPATIENT-CHULA VISTA	2
9003	6894	TGRO OUTREACH-EUROPE	1
9003	6898	OTHER PACIFIC NON TGRO	2
9003	7043	USCG CLINIC HONOLULU	49
9003	7044	USCG CLINIC JUNEAU	19
9003	7045	USCG CLINIC NORTH BEND	11
9003	7046	USCG CLINIC SAN PEDRO	34
9003	7047	USCG CLINIC SITKA	6
9003	7082	USCG CLINIC GALVESTON	2
9003	7083	USCG CLINIC HUMBOLDT BAY	8
9003	7200	460th MED GRP-BUCKLEY AFB	248
9004	0015	9th MED GRP-BEALE	1
9004	0036	436th MED GRP-DOVER	3
9004	0050	23rd MED GRP-MOODY	4
9004	0084	49th MED GRP-HOLLOMAN	2
9004	0085	27th SPEC OPS MED GRP-CANNON	2
9004	0090	4th MED GRP-SEYMOUR JOHNSON	3
9004	0093	319th MED GRP-GRAND FORKS	1
9004	0097	97th MED GRP-ALTUS	3
9004	0106	28th MED GRP-ELLSWORTH	1
9004	0287	15th MED GRP-HICKAM	1
9004	0326	87th MED GRP-MCGUIRE	4
9004	0335	43RD MEDICAL GROUP-POPE	1
9004	0338	71st MED GRP-VANCE	2
9004	0356	628th MED GRP-CHARLESTON	3
9004	0413	579TH MED GROUP-BOLLING	4
9004	0416	USCG CLINIC MOBILE	1
9004	0418	USCG CLINIC ALAMEDA	1
9004	0425	USCG CLINIC CAPE COD	1
9004	0428	USCG CLINIC CAPE MAY	1
9004	0607	LANDSTUHL REGIONAL MEDCEN	623
9004	0610	BG CRAWFORD SAMS AHC-CAMP ZAMA	86
9004	0612	BRIAN ALLGOOD ACH-SEOUL	556
9004	0615	NH GUANTANAMO BAY	135
9004	0617	NH NAPLES	256
9004	0618	NH ROTA	167
9004	0620	NH GUAM-AGANA	235
9004	0621	NH OKINAWA	467
9004	0622	NH YOKOSUKA	365
9004	0624	NH SIGONELLA	216
9004	0629	65th MED GRP-LAJES	48
9004	0633	48th MED GRP-LAKENHEATH	173
9004	0635	39th MED GROUP-INCIRLIK	121
9004	0637	8th MED GRP-KUNSAN AB	154
9004	0638	51st MED GRP-OSAN AB	693
9004	0639	35th MED GRP-MISAWA	488
9004	0640	374th MED GRP-YOKOTA AB	523
9004	0802	36th MED GRP-ANDERSEN	280
9004	0808	31st MED GRP-AVIANO	475
9004	0858	BMC NAVSUPPACT SOUDA BAY	18
9004	0874	NBHC GAETA	17
9004	0953	PUERTO RICO	2638

GEOGRAPHIC SAMPLING STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2010
9004	0957	GERMANY	1545
9004	0958	GREECE	28
9004	0959	ICELAND	7
9004	0960	ITALY	162
9004	0961	JAPAN	202
9004	0963	PHILIPPINES	103
9004	0964	PORTUGAL	35
9004	0965	KOREA	126
9004	0966	SPAIN	100
9004	0967	TURKEY	60
9004	0968	UNITED KINGDOM	140
9004	0969	CANADA	17
9004	0970	OTHER CARIBBEAN	23
9004	0971	CENTRAL AMERICA	135
9004	0972	SOUTH AMERICA	102
9004	0975	U.S. VIRGIN ISLANDS	175
9004	0976	AFRICA	49
9004	0977	MIDEAST	265
9004	0978	SOUTHEAST ASIA	206
9004	0979	BELGIUM	115
9004	0982	OTHER EUROPE	216
9004	0983	OTHER PACIFIC	265
9004	0999	UNKNOWN LOCATION	4064
9004	1153	BMC CAPODICHINO	123
9004	1170	NBHC NSA BAHRAIN	200
9004	1179	NBHC NAVWPNSFAC ST. MAWGAN	4
9004	5197	USCG CLINIC SAN JUAN	31
9004	6897	OTHER EUROPE NON TGRO	5
9004	6898	OTHER PACIFIC NON TGRO	7
9004	7042	USCG CLINIC BORINQUEN	31
9004	7200	460th MED GRP-BUCKLEY AFB	4
			204000

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APPENDIX D

RESPONSE RATE TABLES – QUARTERS I-IV AND COMBINED ANNUAL

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TABLE D.1
RESPONSE RATES BY EMAIL EARLY NOTIFICATION INDICATOR

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Non-Active Duty	29.2	50.1	31.1	51.9	32.6	53.7	28.2	48.5	30.3	51.1
No	4.7	4.7	5.3	4.4	5.4	4.9	4.7	4.0	5.0	4.5
Yes	18.0	17.0	22.4	20.7	23.2	21.6	20.9	18.9	21.2	19.5

RR=Unweighted

RR_W=Weighted

* Only Active Duty received the email notification

TABLE D.2
RESPONSE RATES BY ENROLLMENT AND BENEFICIARY

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Active duty	16.8	15.4	21.2	19.1	21.9	19.7	19.9	17.7	20.0	18.0
Active duty fam,Prime,civ PCM	19.8	18.7	22.1	21.5	24.3	24.9	18.6	19.0	21.1	21.1
Active duty fam,Prime,mil PCM	18.8	18.7	20.1	20.0	23.1	22.7	19.2	19.0	20.3	20.1
Active duty fam,non-enrollee	13.5	14.4	14.8	15.9	16.3	17.5	14.0	15.5	14.7	15.8
Retired,65+,enrolled	73.5	73.3	79.1	79.1	77.5	77.3	76.4	77.1	76.5	76.6
Retired,65+,non-enrollee	73.4	73.5	75.1	74.9	77.4	77.4	71.5	71.4	74.4	74.3
Retired,<65,civ PCM	45.2	47.4	52.4	52.3	50.3	52.1	43.4	46.2	47.8	49.5
Retired,<65,mil PCM	45.0	45.3	48.8	48.9	48.9	49.4	42.9	44.2	46.4	46.9
Retired,<65,non-enrollee	42.7	45.8	42.3	45.2	43.7	47.2	38.8	41.9	41.9	45.0
TRICARE Reserve Select	30.0	30.0	27.9	27.9	34.7	34.7	23.4	23.4	29.0	28.9

RR=Unweighted

RR_W=Weighted

TABLE D.3
RESPONSE RATES BY XOCONUS

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Europe	17.1	16.6	19.1	21.1	19.9	20.1	16.4	17.3	18.1	18.8
In Conus/Missing Region	24.4	42.6	27.3	44.8	28.8	46.5	25.6	42.0	26.5	44.0
Latin America	22.9	46.5	23.6	37.3	24.8	38.8	18.3	16.8	22.3	36.0
Western Pacific	15.9	19.1	20.2	23.8	20.0	21.9	16.0	19.2	18.0	21.0

RR=Unweighted
RR_W=Weighted

TABLE D.4
RESPONSE RATES BY SEX

	Q1 2008		Q2 2008		Q3 2008		Q4 2008		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Female	24.9	43.9	27.3	45.7	29.1	47.4	24.8	41.6	26.5	44.7
Male	22.2	39.5	25.6	42.1	26.5	43.7	24.0	40.4	24.6	41.4

RR=Unweighted
RR_W=Weighted

TABLE D.5
RESPONSE RATES BY USA/OVERSEAS INDICATOR

	Q1 2008		Q2 2008		Q3 2008		Q4 2008		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
In USA	24.6	42.8	27.5	45.0	29.0	46.6	25.8	42.2	26.8	44.1
Invalid/Missing	17.4	33.6	18.1	32.0	19.8	40.7	16.2	29.6	17.8	34.2
Not in USA	17.4	21.8	20.1	24.1	20.5	22.9	16.5	18.1	18.6	21.7

RR=Unweighted
RR_W=Weighted

TABLE D.6
RESPONSE RATES BY BENEFICIARY CATEGORY

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Active Duty and Guard/Reserve	16.9	15.8	21.2	19.3	22.0	20.3	19.9	17.8	20.0	18.3
Dependent of Active Duty & Guard/Reserve	17.0	18.1	18.3	19.8	20.8	22.5	17.3	18.6	18.3	19.7
Retiree/Depend of Retir/Surviv/Other 65+	73.4	73.5	75.4	75.2	77.4	77.4	72.0	71.9	74.6	74.5
Retiree/Depend of Retir/Surviv/Other <65	44.2	46.1	46.9	47.9	47.2	49.0	41.4	43.6	44.9	46.7

RR=Unweighted
RR_w=Weighted

TABLE D.7
RESPONSE RATES BY CATCHMENT AREA

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
37th Med Group	23.2	34.9	.	.	.	.	.	.	23.1	34.8
Agana	22.7	36.4	24.5	28.8	24.9	28.1	22.1	40.6	23.5	34.4
Andrews AFB	26.4	39.0	32.1	35.6	31.5	42.9	27.8	36.3	29.4	38.5
Barksdale AFB	22.0	23.8	25.1	28.8	29.5	33.0	22.5	25.8	24.8	27.9
Brooke AMC-Ft. Sam Houston	28.2	50.8	26.3	36.5	31.9	48.2	27.2	50.1	28.4	46.6
Davis-Monthan AFB	21.5	22.9	29.9	39.5	36.6	41.4	26.7	36.0	28.7	35.1
Dyess AFB	23.3	29.6	24.6	28.8	26.8	31.9	25.1	27.5	25.0	29.4
Edwards AFB	25.7	27.8	29.9	38.4	30.7	32.0	26.5	34.3	28.2	33.3
Eglin AFB	28.7	46.9	29.9	41.7	29.4	50.9	26.6	40.9	28.7	44.9
Elmendorf AFB/Ft Wainwright	22.7	33.7	26.7	31.2	32.1	43.9	27.1	33.9	27.2	35.9
Evans ACH-Ft. Carson	21.9	37.8	18.3	31.4	22.2	40.6	15.0	25.7	19.3	33.8
F.E. Warren AFB	22.9	25.0	25.8	33.9	30.4	33.2	26.0	29.5	26.3	30.4
Fairchild AFB	27.1	30.2	30.4	37.6	31.8	37.8	31.2	52.6	30.2	40.7
Ft Wainwright	13.2	18.6	17.1	20.7	19.5	20.1	14.9	14.8	16.2	18.5
Ft. Belvoir	34.4	45.1	37.5	43.7	32.8	42.5	29.2	38.0	33.5	42.4
Ft. Benning	15.5	26.6	18.1	31.0	16.1	31.9	17.9	30.1	16.9	29.7
Ft. Bliss	15.3	25.9	17.6	28.2	21.8	25.0	18.6	29.4	18.4	27.2
Ft. Bragg	18.0	25.5	24.1	31.8	20.1	24.8	20.1	27.9	20.6	27.4
Ft. Campbell	15.9	22.1	18.0	23.3	17.3	27.3	14.6	17.3	16.5	22.7

TABLE D.7 (continued)

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Ft. Drum	9.7	9.4	13.3	13.0	12.3	11.7	15.1	14.3	12.6	12.1
Ft. Eustis	25.9	31.4	24.1	31.2	21.5	26.3	21.2	23.6	23.2	28.2
Ft. Gordon	24.1	30.2	28.4	44.4	24.1	31.2	25.6	36.2	25.6	35.6
Ft. Hood	15.0	23.9	18.1	25.3	20.6	26.8	15.5	22.2	17.3	24.6
Ft. Huachuca	18.7	22.1	24.5	28.4	19.7	24.5	21.6	24.9	21.2	25.0
Ft. Irwin	11.8	9.1	13.8	16.9	13.7	11.5	15.0	32.7	13.6	18.1
Ft. Jackson	15.4	34.9	21.9	44.5	29.7	53.1	25.2	46.7	23.1	45.2
Ft. Knox	23.9	35.6	18.9	28.9	25.1	42.9	20.4	36.5	22.1	35.9
Ft. Leavenworth	24.9	30.0	29.1	34.7	29.4	34.5	25.7	29.5	27.3	32.2
Ft. Lee	22.4	34.5	19.8	22.7	24.9	30.0	21.5	31.3	22.2	29.8
Ft. Leonard Wood	15.8	31.9	22.1	35.8	19.1	30.6	18.1	20.2	18.8	29.8
Ft. Meade	20.4	24.3	25.0	30.6	26.5	35.2	21.3	26.8	23.3	29.3
Ft. Polk	14.7	32.3	11.1	31.5	15.4	26.7	14.3	31.3	13.9	30.6
Ft. Riley	18.8	30.2	17.0	27.2	14.8	20.0	16.8	21.5	16.8	24.8
Ft. Ritchie	25.5	28.3	26.2	27.4	25.8	29.2	29.0	31.4	26.6	29.0
Ft. Rucker	23.4	28.1	28.0	32.8	26.1	29.1	19.7	23.1	24.3	28.3
Ft. Sill	17.5	26.3	21.9	30.8	22.2	24.6	18.3	19.8	20.0	25.4
Ft. Stewart	18.7	33.1	15.7	28.0	18.3	31.0	13.6	24.2	16.6	29.3
Heidelberg Meddacc	18.7	19.3	21.4	23.4	19.9	21.4	17.4	18.3	19.3	20.6
Hill AFB	25.5	31.6	29.5	34.7	28.4	34.1	27.9	29.7	27.8	32.4
Kadena AFB	12.5	12.6	20.0	20.0	22.2	22.2	18.1	18.1	18.2	18.1
Keesler AFB	25.3	25.2	26.4	39.3	30.0	45.3	24.2	37.3	26.5	36.3
Kirtland AFB	25.5	28.1	33.2	36.0	32.3	35.4	29.6	33.2	30.2	33.3
Lackland AFB	23.7	44.0	24.0	44.6	29.6	50.8	25.3	44.4	26.0	46.5
Landstuhl	12.7	14.9	15.1	17.4	16.3	18.9	13.6	17.3	14.4	17.1
Langley AFB	21.9	38.6	30.4	48.1	27.1	38.5	28.8	42.2	27.1	41.9
Laughlin AFB/Sheppard AFB	28.7	32.4	32.0	39.1	38.0	32.1	30.0	33.9	32.2	34.7
Luke AFB	24.9	27.7	30.8	45.2	40.1	49.2	22.1	24.2	29.5	36.7
MacDill AFB	26.3	40.0	29.8	33.9	31.4	39.4	34.7	44.3	30.5	39.6
Madigan AMC-Ft. Lewis	23.9	37.7	19.7	30.5	23.2	38.6	20.8	38.4	21.9	36.5
Maxwell AFB	25.3	29.2	30.7	34.1	37.1	42.1	32.9	29.6	31.5	33.6
Mountain Home AFB	23.1	29.2	27.5	47.6	26.1	38.5	26.5	31.4	25.8	37.4
NACC Portsmouth NH	29.5	33.2	34.0	34.3	29.4	31.6	29.0	28.5	30.5	31.9
NBHC Mayport	23.1	24.6	23.3	23.3	23.0	25.7	27.0	28.2	24.1	25.4

TABLE D.7 (continued)

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
NBHC Nas North Island	25.9	27.1	24.9	25.1	29.1	38.9	26.8	27.3	26.7	29.9
NBHC Ntc San Diego	23.6	28.3	24.7	27.7	29.3	42.2	25.8	29.9	25.9	32.5
NH 29-Palms	13.3	14.9	15.0	22.6	18.4	25.6	16.7	17.7	15.8	20.0
NH Beaufort	14.8	25.1	16.1	31.4	17.4	38.3	18.2	34.4	16.7	32.7
NH Bremerton	23.2	31.1	21.2	32.1	30.1	42.7	25.2	32.4	24.9	34.5
NH Camp Lejeune	14.8	19.8	18.2	23.2	20.9	25.8	17.8	20.4	17.9	22.4
NH Camp Pendleton/Ft Irwin	20.0	31.2	22.6	31.8	24.9	40.3	17.4	29.3	21.2	33.2
NH Charleston	18.9	21.3	20.8	24.2	20.9	23.8	22.5	26.2	20.8	23.9
NH Cherry Point	23.3	30.1	24.5	30.2	30.7	36.6	21.8	27.0	25.1	31.0
NH Corpus Christi	22.5	26.4	27.6	31.5	28.4	31.9	24.7	29.2	25.8	29.7
NH Great Lakes	26.0	28.1	32.6	36.0	30.9	33.4	28.9	30.9	29.6	32.0
NH Guantanamo Bay	17.7	18.5	18.3	18.4	28.1	30.4	19.4	18.1	20.9	21.4
NH Jacksonville/Key West	24.8	41.7	25.3	32.4	30.0	47.1	27.0	35.3	26.8	39.4
NH LeMoore	17.8	20.3	24.3	35.3	26.1	34.1	21.8	19.0	22.5	27.4
NH Oak Harbor	19.9	29.6	21.2	35.3	27.4	30.4	25.6	26.3	23.5	30.5
NH Patuxent River	28.2	32.7	29.7	31.2	27.8	31.5	22.4	26.4	27.0	30.2
NH Pensacola	21.0	33.2	23.6	36.0	27.9	42.2	25.1	32.0	24.4	35.9
NH Yokosuka/other Asian	20.3	22.4	21.2	22.3	18.3	20.3	14.0	14.7	18.5	20.0
NMC Portsmouth	22.9	36.1	23.6	35.4	28.6	36.0	22.9	32.6	24.5	35.0
NMC San Diego	20.3	32.3	25.0	38.7	24.4	34.1	25.4	33.2	23.8	34.6
NMCL Quantico	21.8	25.9	25.4	28.1	28.2	30.2	25.5	27.1	25.3	27.9
NNMC Bethesda	30.4	42.8	34.3	38.6	35.3	48.4	29.1	46.9	32.2	44.2
Naples	16.7	15.8	19.6	19.8	20.9	20.8	21.6	21.7	19.8	19.5
Naval Health Care New England	22.3	24.7	29.0	33.8	29.3	30.9	25.7	27.9	26.6	29.3
Nellis AFB	26.8	42.6	36.4	59.0	32.7	41.4	32.9	40.4	32.2	45.9
Norfolk	28.2	27.8	29.2	28.8	30.6	29.4	26.8	25.6	28.7	27.9
Offutt AFB	24.6	32.8	34.6	45.2	35.9	43.1	28.7	30.3	31.0	38.0
Okinawa	11.5	11.6	17.3	18.7	15.6	16.9	13.9	15.4	14.6	15.6
Out of catchment-north	30.4	53.7	30.9	52.8	34.1	57.3	30.8	52.5	31.6	54.1
Out of catchment-overseas	19.9	35.9	19.3	32.5	20.9	38.3	16.7	25.6	19.2	33.4
Out of catchment-south	28.8	54.5	30.7	56.4	30.8	56.1	29.3	53.7	29.9	55.2
Out of catchment-west	32.1	55.6	36.4	60.2	36.5	59.7	32.8	52.5	34.5	57.0
Patrick AFB	38.4	42.3	36.9	45.1	40.1	48.3	25.9	32.2	35.4	41.8
Pearl Harbor	28.4	28.6	28.2	28.5	26.4	26.6	23.2	23.7	26.5	26.8

TABLE D.7 (continued)

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Peterson AFB	28.5	32.6	33.2	36.0	32.3	34.5	30.6	30.6	31.2	33.4
Port Hueneme	21.8	24.2	30.0	31.7	35.7	37.8	35.9	38.7	30.9	33.3
RAF Lakenheath/other Europe	21.2	22.6	23.1	35.4	25.4	26.3	18.5	19.9	22.1	26.8
Randolph AFB	33.2	37.7	39.0	43.9	41.3	52.1	28.5	36.4	35.5	42.6
Redstone Ars/Ft McClellan	30.0	32.9	35.6	39.5	38.1	38.5	32.5	37.4	34.0	37.1
Robins AFB	23.2	25.5	27.2	30.9	23.9	26.4	29.3	33.2	26.0	29.0
Scott AFB	26.5	30.9	39.1	47.5	39.7	42.3	34.4	50.1	35.0	43.2
Seoul	10.7	9.9	14.1	14.6	13.0	14.2	9.2	8.7	11.8	11.7
Shaw AFB	19.9	24.2	24.8	30.8	32.7	35.1	22.3	38.1	24.9	32.3
Spangdahlem/Ramstein AFB	18.7	18.3	25.5	25.4	23.6	22.4	19.2	18.3	21.8	21.1
Tinker AFB	22.1	25.0	29.6	33.7	31.4	34.1	27.1	28.7	27.6	30.3
Travis AFB	29.0	42.8	29.1	49.0	34.7	49.8	25.7	40.3	29.6	45.5
TRICARE Outpat-Chula Vista	36.7	40.3	41.2	39.5	44.3	49.5	31.8	28.9	38.5	39.1
Tripler AMC	18.4	31.9	23.9	34.0	23.2	32.0	20.9	34.2	21.6	33.0
Tyndall AFB	25.8	27.2	31.5	34.1	32.2	33.4	29.8	32.0	29.8	31.6
USAF Acad. Hospital	26.2	31.9	39.2	52.7	38.1	41.0	27.2	45.4	32.7	42.6
USCG Clinic Detroit	25.0	25.0	20.0	20.0	60.0	62.0	20.0	20.0	31.6	31.7
USCG Group St Petersburg Clinic	33.3	33.3	.	.	.	.	.	.	16.7	16.5
Virginia Beach	18.8	22.9	21.9	25.7	26.4	29.7	19.3	21.6	21.6	25.0
Walter Reed AMC	31.1	47.1	34.7	50.2	35.3	57.1	31.1	34.8	33.1	47.6
West Point	20.2	32.6	24.3	35.6	19.7	38.5	19.3	35.6	20.9	35.5
Wright Patterson AFB	37.0	45.6	36.8	43.9	36.2	53.0	37.8	50.4	37.0	48.4
Wuerzburg	12.3	11.5	14.5	14.1	18.0	17.8	13.2	12.4	14.5	14.0
Yokota AB	13.6	14.1	23.3	30.0	23.1	22.7	16.6	17.7	19.1	21.3

RR=Unweighted

RR_w=Weighted

TABLE D.8
RESPONSE RATES BY SERVICE AFFILIATION

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Administrative	27.2	32.1	31.3	28.7	25.9	30.4	19.1	29.1	24.8	30.0
Air Force	24.6	36.0	29.3	40.9	30.7	42.6	26.6	37.7	27.8	39.3
Army	18.7	30.8	20.7	32.2	21.0	32.0	18.7	30.1	19.8	31.3
Coast Guard	25.3	28.0	35.5	34.2	40.1	38.6	34.9	36.9	34.0	34.4
Missing/Unknown	27.3	35.8	46.8	76.8	41.9	54.8	30.1	36.1	36.7	51.8
Navy	20.7	29.3	23.0	30.5	25.0	34.4	22.2	30.2	22.7	31.1
Noncatchment	28.8	59.6	29.6	59.6	31.1	62.3	27.7	56.6	29.3	59.5
Support Contractor	28.2	41.2	32.7	45.4	33.1	46.3	28.7	40.0	30.7	43.2
USTF	51.2	65.6	49.3	62.3	47.1	62.1	49.1	67.8	49.1	64.5

RR=Unweighted
RR_w=Weighted

TABLE D.9
RESPONSE RATES BY BRANCH OF SERVICE

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Air Force	27.1	50.1	31.3	51.3	32.6	51.5	29.0	48.3	30.0	50.3
Army	20.3	36.3	22.7	40.5	23.2	41.5	20.5	37.2	21.7	38.9
Coast Guard	28.5	41.6	33.6	42.7	36.0	44.4	33.8	45.0	33.0	43.4
Marine Corps	17.3	30.9	20.0	30.5	21.8	35.4	18.6	29.3	19.4	31.6
Navy	25.4	43.5	27.3	44.8	29.6	48.5	25.4	41.9	26.9	44.7
Other/Unknown	42.3	59.2	49.1	61.8	46.7	61.8	44.1	54.9	45.6	59.5

RR=Unweighted
RR_w=Weighted

TABLE D.10
RESPONSE RATES BY TRICARE NEXT GENERATION OF CONTRACTS REGION GROUPING

	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
North	25.4	42.5	28.0	43.2	29.1	46.2	26.1	42.0	27.2	43.5
Overseas	17.2	21.9	19.7	23.7	20.2	23.8	16.2	17.6	18.3	21.7
South	24.4	44.3	26.9	46.0	28.7	47.8	25.8	44.5	26.4	45.7
West	24.2	41.4	27.7	45.7	29.3	45.8	25.6	40.0	26.7	43.2

RR=Unweighted
RR_w=Weighted

TABLE D.11
RESPONSE RATES BY COMBINED GEOGRAPHIC AREA

TNEX Reg	Catchment	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
		RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
North	Andrews AFB	26.4	39.0	32.1	35.6	31.5	42.9	27.8	36.3	29.4	38.5
North	Ft. Belvoir	34.4	45.1	37.5	43.7	32.8	42.5	29.2	38.0	33.5	42.4
North	Ft. Bragg	18.0	25.5	24.1	31.8	20.1	24.8	20.1	27.9	20.6	27.4
North	Ft. Campbell	15.9	22.1	18.0	23.3	17.3	27.3	14.6	17.3	16.5	22.7
North	Ft. Drum	9.7	9.4	13.3	13.0	12.3	11.7	15.1	14.3	12.6	12.1
North	Ft. Eustis	25.9	31.4	24.1	31.2	21.5	26.3	21.2	23.6	23.2	28.2
North	Ft. Knox	23.9	35.6	18.9	28.9	25.1	42.9	20.4	36.5	22.1	35.9
North	Ft. Lee	22.4	34.5	19.8	22.7	24.9	30.0	21.5	31.3	22.2	29.8
North	Ft. Meade	20.4	24.3	25.0	30.6	26.5	35.2	21.3	26.8	23.3	29.3
North	Ft. Ritchie	25.5	28.3	26.2	27.4	25.8	29.2	29.0	31.4	26.6	29.0
North	Langley AFB	21.9	38.6	30.4	48.1	27.1	38.5	28.8	42.2	27.1	41.9
North	NACC Portsmouth NH	29.5	33.2	34.0	34.3	29.4	31.6	29.0	28.5	30.5	31.9
North	NH Camp Lejeune	14.8	19.8	18.2	23.2	20.9	25.8	17.8	20.4	17.9	22.4
North	NH Cherry Point	23.3	30.1	24.5	30.2	30.7	36.6	21.8	27.0	25.1	31.0
North	NH Great Lakes	26.0	28.1	32.6	36.0	30.9	33.4	28.9	30.9	29.6	32.0
North	NH Patuxent River	28.2	32.7	29.7	31.2	27.8	31.5	22.4	26.4	27.0	30.2
North	NMC Portsmouth	22.9	36.1	23.6	35.4	28.6	36.0	22.9	32.6	24.5	35.0
North	NMCL Quantico	21.8	25.9	25.4	28.1	28.2	30.2	25.5	27.1	25.3	27.9
North	NNMC Bethesda	30.4	42.8	34.3	38.6	35.3	48.4	29.1	46.9	32.2	44.2
North	Naval Health Care New England	22.3	24.7	29.0	33.8	29.3	30.9	25.7	27.9	26.6	29.3
North	Norfolk	28.2	27.8	29.2	28.8	30.6	29.4	26.8	25.6	28.7	27.9
North	Out of catchment-north	30.4	53.7	30.9	52.8	34.1	57.3	30.8	52.5	31.6	54.1
North	Out of catchment-overseas	18.2	30.9	27.8	45.9	29.7	47.7	30.8	47.5	25.6	41.5
North	Scott AFB	26.5	30.9	39.1	47.5	39.7	42.3	34.4	50.1	35.0	43.2
North	USCG Clinic Detroit	25.0	25.0	20.0	20.0	60.0	62.0	20.0	20.0	31.6	31.7
North	Virginia Beach	18.8	22.9	21.9	25.7	26.4	29.7	19.3	21.6	21.6	25.0
North	Walter Reed AMC	31.1	47.1	34.7	50.2	35.3	57.1	31.1	34.8	33.1	47.6
North	West Point	20.2	32.6	24.3	35.6	19.7	38.5	19.3	35.6	20.9	35.5
North	Wright Patterson AFB	37.0	45.6	36.8	43.9	36.2	53.0	37.8	50.4	37.0	48.4
Overseas	Agana	22.7	36.4	24.5	28.8	24.9	28.1	22.1	40.6	23.5	34.4
Overseas	Heidelberg Meddac	18.7	19.3	21.4	23.4	19.9	21.4	17.4	18.3	19.3	20.6
Overseas	Kadena AFB	12.5	12.6	20.0	20.0	22.2	22.2	18.1	18.1	18.2	18.1
Overseas	Landstuhl	12.7	14.9	15.1	17.4	16.3	18.9	13.6	17.3	14.4	17.1

TABLE D.11 (continued)

TNEX Reg	Catchment	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
		RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Overseas	NH Guantanamo Bay	17.7	18.5	18.3	18.4	28.1	30.4	19.4	18.1	20.9	21.4
Overseas	NH Yokosuka/other Asian	20.3	22.4	21.2	22.3	18.3	20.3	14.0	14.7	18.5	20.0
Overseas	Naples	16.7	15.8	19.6	19.8	20.9	20.8	21.6	21.7	19.8	19.5
Overseas	Okinawa	11.5	11.6	17.3	18.7	15.6	16.9	13.9	15.4	14.6	15.6
Overseas	Out of catchment-overseas	19.7	32.9	19.0	27.8	20.3	31.6	16.1	16.3	18.8	27.5
Overseas	RAF Lakenheath/other Europe	21.2	22.6	23.1	35.4	25.4	26.3	18.5	19.9	22.1	26.8
Overseas	Seoul	10.7	9.9	14.1	14.6	13.0	14.2	9.2	8.7	11.8	11.7
Overseas	Spangdahlem/Ramstein AFB	18.7	18.3	25.5	25.4	23.6	22.4	19.2	18.3	21.8	21.1
Overseas	Wuerzburg	12.3	11.5	14.5	14.1	18.0	17.8	13.2	12.4	14.5	14.0
Overseas	Yokota AB	13.6	14.1	23.3	30.0	23.1	22.7	16.6	17.7	19.1	21.3
South	37th Med Group	23.2	34.9	.	.	.	.	.	.	23.1	34.8
South	Barksdale AFB	22.0	23.8	25.1	28.8	29.5	33.0	22.5	25.8	24.8	27.9
South	Brooke AMC-Ft. Sam Houston	28.2	50.8	26.3	36.5	31.9	48.2	27.2	50.1	28.4	46.6
South	Dyess AFB	23.3	29.6	24.6	28.8	26.8	31.9	25.1	27.5	25.0	29.4
South	Eglin AFB	28.7	46.9	29.9	41.7	29.4	50.9	26.6	40.9	28.7	44.9
South	Ft. Benning	15.5	26.6	18.1	31.0	16.1	31.9	17.9	30.1	16.9	29.7
South	Ft. Gordon	24.1	30.2	28.4	44.4	24.1	31.2	25.6	36.2	25.6	35.6
South	Ft. Hood	15.0	23.9	18.1	25.3	20.6	26.8	15.5	22.2	17.3	24.6
South	Ft. Jackson	15.4	34.9	21.9	44.5	29.7	53.1	25.2	46.7	23.1	45.2
South	Ft. Polk	14.7	32.3	11.1	31.5	15.4	26.7	14.3	31.3	13.9	30.6
South	Ft. Rucker	23.4	28.1	28.0	32.8	26.1	29.1	19.7	23.1	24.3	28.3
South	Ft. Sill	17.5	26.3	21.9	30.8	22.2	24.6	18.3	19.8	20.0	25.4
South	Ft. Stewart	18.7	33.1	15.7	28.0	18.3	31.0	13.6	24.2	16.6	29.3
South	Keesler AFB	25.3	25.2	26.4	39.3	30.0	45.3	24.2	37.3	26.5	36.3
South	Lackland AFB	23.7	44.0	24.0	44.6	29.6	50.8	25.3	44.4	26.0	46.5
South	Laughlin AFB/Sheppard AFB	28.7	32.4	32.0	39.1	38.0	32.1	30.0	33.9	32.2	34.7
South	MacDill AFB	26.3	40.0	29.8	33.9	31.4	39.4	34.7	44.3	30.5	39.6
South	Maxwell AFB	25.3	29.2	30.7	34.1	37.1	42.1	32.9	29.6	31.5	33.6
South	NBHC Mayport	23.1	24.6	23.3	23.3	23.0	25.7	27.0	28.2	24.1	25.4
South	NH Beaufort	14.8	25.1	16.1	31.4	17.4	38.3	18.2	34.4	16.7	32.7
South	NH Charleston	18.9	21.3	20.8	24.2	20.9	23.8	22.5	26.2	20.8	23.9
South	NH Corpus Christi	22.5	26.4	27.6	31.5	28.4	31.9	24.7	29.2	25.8	29.7
South	NH Jacksonville/Key West	24.8	41.7	25.3	32.4	30.0	47.1	27.0	35.3	26.8	39.4
South	NH Pensacola	21.0	33.2	23.6	36.0	27.9	42.2	25.1	32.0	24.4	35.9
South	Out of catchment-overseas	26.9	41.5	24.4	32.5	34.0	50.7	30.4	44.7	29.0	43.0

TABLE D.11 (continued)

TNEX Reg	Catchment	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
		RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
South	Out of catchment-south	28.8	54.5	30.7	56.4	30.8	56.1	29.3	53.7	29.9	55.2
South	Patrick AFB	38.4	42.3	36.9	45.1	40.1	48.3	25.9	32.2	35.4	41.8
South	Randolph AFB	33.2	37.7	39.0	43.9	41.3	52.1	28.5	36.4	35.5	42.6
South	Redstone Ars/Ft McClellan	30.0	32.9	35.6	39.5	38.1	38.5	32.5	37.4	34.0	37.1
South	Robins AFB	23.2	25.5	27.2	30.9	23.9	26.4	29.3	33.2	26.0	29.0
South	Shaw AFB	19.9	24.2	24.8	30.8	32.7	35.1	22.3	38.1	24.9	32.3
South	Tinker AFB	22.1	25.0	29.6	33.7	31.4	34.1	27.1	28.7	27.6	30.3
South	Tyndall AFB	25.8	27.2	31.5	34.1	32.2	33.4	29.8	32.0	29.8	31.6
South	USCG Group St Petersburg Clinic	33.3	33.3	.	.	.	.	.	.	16.7	16.5
West	Davis-Monthan AFB	21.5	22.9	29.9	39.5	36.6	41.4	26.7	36.0	28.7	35.1
West	Edwards AFB	25.7	27.8	29.9	38.4	30.7	32.0	26.5	34.3	28.2	33.3
West	Elmendorf AFB/Ft Wainwright	22.7	33.7	26.7	31.2	32.1	43.9	27.1	33.9	27.2	35.9
West	Evans ACH-Ft. Carson	21.9	37.8	18.3	31.4	22.2	40.6	15.0	25.7	19.3	33.8
West	F.E. Warren AFB	22.9	25.0	25.8	33.9	30.4	33.2	26.0	29.5	26.3	30.4
West	Fairchild AFB	27.1	30.2	30.4	37.6	31.8	37.8	31.2	52.6	30.2	40.7
West	Ft Wainwright	13.2	18.6	17.1	20.7	19.5	20.1	14.9	14.8	16.2	18.5
West	Ft. Bliss	15.3	25.9	17.6	28.2	21.8	25.0	18.6	29.4	18.4	27.2
West	Ft. Huachuca	18.7	22.1	24.5	28.4	19.7	24.5	21.6	24.9	21.2	25.0
West	Ft. Irwin	11.8	9.1	13.8	16.9	13.7	11.5	15.0	32.7	13.6	18.1
West	Ft. Leavenworth	24.9	30.0	29.1	34.7	29.4	34.5	25.7	29.5	27.3	32.2
West	Ft. Leonard Wood	15.8	31.9	22.1	35.8	19.1	30.6	18.1	20.2	18.8	29.8
West	Ft. Riley	18.8	30.2	17.0	27.2	14.8	20.0	16.8	21.5	16.8	24.8
West	Hill AFB	25.5	31.6	29.5	34.7	28.4	34.1	27.9	29.7	27.8	32.4
West	Kirtland AFB	25.5	28.1	33.2	36.0	32.3	35.4	29.6	33.2	30.2	33.3
West	Luke AFB	24.9	27.7	30.8	45.2	40.1	49.2	22.1	24.2	29.5	36.7
West	Madigan AMC-Ft. Lewis	23.9	37.7	19.7	30.5	23.2	38.6	20.8	38.4	21.9	36.5
West	Mountain Home AFB	23.1	29.2	27.5	47.6	26.1	38.5	26.5	31.4	25.8	37.4
West	NBHC Nas North Island	25.9	27.1	24.9	25.1	29.1	38.9	26.8	27.3	26.7	29.9
West	NBHC Ntc San Diego	23.6	28.3	24.7	27.7	29.3	42.2	25.8	29.9	25.9	32.5
West	NH 29-Palms	13.3	14.9	15.0	22.6	18.4	25.6	16.7	17.7	15.8	20.0
West	NH Bremerton	23.2	31.1	21.2	32.1	30.1	42.7	25.2	32.4	24.9	34.5
West	NH Camp Pendleton/Ft Irwin	20.0	31.2	22.6	31.8	24.9	40.3	17.4	29.3	21.2	33.2
West	NH LeMoore	17.8	20.3	24.3	35.3	26.1	34.1	21.8	19.0	22.5	27.4
West	NH Oak Harbor	19.9	29.6	21.2	35.3	27.4	30.4	25.6	26.3	23.5	30.5
West	NMC San Diego	20.3	32.3	25.0	38.7	24.4	34.1	25.4	33.2	23.8	34.6

TABLE D.11 (continued)

TNEX Reg	Catchment	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
		RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
West	Nellis AFB	26.8	42.6	36.4	59.0	32.7	41.4	32.9	40.4	32.2	45.9
West	Offutt AFB	24.6	32.8	34.6	45.2	35.9	43.1	28.7	30.3	31.0	38.0
West	Out of catchment-overseas	21.5	51.5	20.0	46.3	28.3	49.6	23.9	38.6	22.9	46.3
West	Out of catchment-west	32.1	55.6	36.4	60.2	36.5	59.7	32.8	52.5	34.5	57.0
West	Pearl Harbor	28.4	28.6	28.2	28.5	26.4	26.6	23.2	23.7	26.5	26.8
West	Peterson AFB	28.5	32.6	33.2	36.0	32.3	34.5	30.6	30.6	31.2	33.4
West	Port Hueneme	21.8	24.2	30.0	31.7	35.7	37.8	35.9	38.7	30.9	33.3
West	Travis AFB	29.0	42.8	29.1	49.0	34.7	49.8	25.7	40.3	29.6	45.5
West	Tricare Outpat-Chula Vista	36.7	40.3	41.2	39.5	44.3	49.5	31.8	28.9	38.5	39.1
West	Tripler AMC	18.4	31.9	23.9	34.0	23.2	32.0	20.9	34.2	21.6	33.0
West	USAF Acad. Hospital	26.2	31.9	39.2	52.7	38.1	41.0	27.2	45.4	32.7	42.6

RR=Unweighted

RR_w=Weighted

TABLE D.12
RESPONSE RATES BY BENEFICIARY CATEGORY AND SEX

Beneficiary Category	Sex	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
		RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Active Duty and Guard/Reserve	Female	18.5	18.0	25.3	23.6	26.2	24.6	23.2	21.2	23.3	21.8
Active Duty and Guard/Reserve	Male	16.6	15.4	20.5	18.5	21.3	19.5	19.4	17.2	19.4	17.7
Dependent of Active Duty & Guard/Reserve	Female	17.9	18.8	19.1	20.6	21.9	23.6	18.2	19.4	19.3	20.6
Dependent of Active Duty & Guard/Reserve	Male	11.2	12.6	12.6	13.7	12.5	14.7	11.0	12.2	11.8	13.3
Retiree/Depend of Retir/Surviv/Other 65+	Female	71.1	71.3	72.0	71.9	74.6	74.6	68.6	68.7	71.6	71.7
Retiree/Depend of Retir/Surviv/Other 65+	Male	76.2	76.1	79.5	79.2	80.7	80.6	75.4	75.2	77.9	77.7
Retiree/Depend of Retir/Surviv/Other <65	Female	43.7	45.4	46.1	47.2	45.8	47.5	39.7	41.9	43.8	45.5
Retiree/Depend of Retir/Surviv/Other <65	Male	44.7	46.9	47.8	48.7	48.7	50.6	43.2	45.4	46.1	47.9

RR=Unweighted

RR_W=Weighted

TABLE D.13
RESPONSE RATES BY BENEFICIARY CATEGORY AND SERVICE

Beneficiary Category	Service	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
		RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Active Duty and Guard/Reserve	Air Force	20.2	20.8	27.4	27.5	28.0	27.3	26.0	26.3	25.4	25.5
	Army	13.6	13.1	16.0	15.0	16.2	16.0	14.9	13.5	15.2	14.4
	Coast Guard	24.0	23.6	35.0	35.6	36.7	36.9	35.0	35.0	32.7	32.8
	Marine Corps	11.4	10.5	15.1	14.0	14.8	13.8	13.5	12.6	13.7	12.8
	Navy	19.1	17.9	21.4	20.3	24.2	23.4	20.0	18.3	21.2	20.0
	Other/Unknown	44.7	45.0	53.9	53.8	44.8	48.4	48.0	47.8	48.0	48.7
Dependent of Active Duty & Guard/Reserve	Air Force	19.8	19.4	20.3	22.3	24.0	25.1	19.7	19.7	20.9	21.6
	Army	15.0	16.6	16.0	18.3	17.9	20.5	14.7	17.4	15.9	18.2
	Coast Guard	20.2	22.6	25.3	27.3	28.9	32.1	24.5	28.8	24.6	27.6
	Marine Corps	15.3	17.1	18.2	18.4	20.8	22.6	16.1	16.2	17.6	18.5
	Navy	17.7	19.4	19.5	20.1	21.3	22.7	19.1	19.6	19.4	20.5
	Other/Unknown	32.5	37.8	34.8	32.2	46.7	43.7	29.9	35.6	36.0	37.2
Retiree/Depend of Retir/Surviv/Other 65+	Air Force	75.9	76.2	75.9	75.8	75.1	75.2	72.2	72.3	74.8	74.9
	Army	69.8	69.9	75.1	75.0	78.0	77.9	71.6	71.6	73.7	73.7
	Coast Guard	64.3	63.4	76.5	75.6	70.6	69.5	73.9	72.0	71.8	70.6
	Marine Corps	71.0	71.1	76.2	76.2	76.9	77.2	71.1	71.0	74.0	74.1
	Navy	75.0	74.7	74.7	74.4	80.4	80.1	72.5	72.3	75.7	75.4
	Other/Unknown	85.7	83.4	100.0	100.0	100.0	100.0	50.0	50.0	85.7	84.6
Retiree/Depend of Retir/Surviv/Other <65	Air Force	45.6	49.4	48.4	48.7	49.1	51.1	42.9	46.1	46.5	48.9
	Army	42.8	44.7	47.6	50.2	45.4	48.0	40.8	43.3	44.1	46.5
	Coast Guard	56.6	56.1	39.6	38.4	42.8	43.5	42.4	41.5	45.7	45.2
	Marine Corps	41.3	41.5	41.2	39.3	46.8	43.3	39.9	39.1	42.2	40.8
	Navy	43.8	44.4	45.3	46.2	47.5	49.8	40.3	42.3	44.2	45.7
	Other/Unknown	55.0	52.7	76.9	83.8	42.9	46.4	76.5	82.8	64.9	68.1

RR=Unweighted
RR_W=Weighted

TABLE D.14
RESPONSE RATES BY BENEFICIARY CATEGORY AND EARLY EMAIL NOTIFICATION INDICATOR

Beneficiary Category	Email Notification	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
		RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Active Duty and Guard/Reserve	No	4.7	4.7	5.3	4.4	5.4	4.9	4.7	4.0	5.0	4.5
Active Duty and Guard/Reserve	Yes	18.0	17.0	22.4	20.7	23.2	21.6	20.9	18.9	21.2	19.5
Dependent of Active Duty & Guard/Reserve	Non-Active Duty*	17.0	18.1	18.3	19.8	20.8	22.5	17.3	18.6	18.3	19.7
Retiree/Depend of Retir/Surviv/Other 65+	Non-Active Duty	73.4	73.5	75.4	75.2	77.4	77.4	72.0	71.9	74.6	74.5
Retiree/Depend of Retir/Surviv/Other <65	Non-Active Duty	44.2	46.1	46.9	47.9	47.2	49.0	41.4	43.6	44.9	46.7

RR=Unweighted

RR_w=Weighted

* Only Active Duty received the email notification

TABLE D.15

RESPONSE RATES BY USA/OVERSEAS INDICATOR, BENEFICIARY CATEGORY, AND EARLY EMAIL NOTIFICATION INDICATOR

USA	Beneficiary Category	Email Notification	Q1 2010		Q2 2010		Q3 2010		Q4 2010		COMBINED	
			RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
In USA	Active Duty and Guard/Reserve	No	5.1	5.0	5.4	4.3	5.7	5.0	5.2	4.3	5.3	4.7
In USA	Active Duty and Guard/Reserve	Yes	18.6	17.2	22.8	20.8	23.6	21.8	21.4	19.1	21.6	19.7
In USA	Dependent of Active Duty & Guard/Reserve	Non-Active Duty*	17.6	18.2	19.2	20.1	22.0	22.9	18.8	19.2	19.4	20.1
In USA	Retiree/Depend of Retir/Surviv/Other 65+	Non-Active Duty	74.3	74.4	76.1	76.0	78.0	78.0	73.0	73.0	75.4	75.3
In USA	Retiree/Depend of Retir/Surviv/Other <65	Non-Active Duty	46.1	46.5	48.6	48.3	49.6	49.5	43.6	44.0	46.9	47.1
Invalid/Missing	Active Duty and Guard/Reserve	No	2.4	2.2	4.3	4.3	3.2	3.9	2.4	2.2	3.1	3.1
Invalid/Missing	Active Duty and Guard/Reserve	Yes	13.3	14.2	16.2	16.5	18.9	19.9	17.7	19.2	16.4	17.3
Invalid/Missing	Dependent of Active Duty & Guard/Reserve	Non-Active Duty	11.3	10.0	12.3	9.9	12.6	12.2	8.0	7.1	10.9	9.7
Invalid/Missing	Retiree/Depend of Retir/Surviv/Other 65+	Non-Active Duty	51.6	51.3	47.6	46.2	63.0	62.9	38.9	37.9	51.5	51.0
Invalid/Missing	Retiree/Depend of Retir/Surviv/Other <65	Non-Active Duty	31.8	33.6	32.2	39.0	31.2	34.6	28.1	37.1	30.8	35.9
Not in USA	Active Duty and Guard/Reserve	No	2.5	2.3	5.4	5.5	5.7	4.9	0.0	0.0	3.5	3.3
Not in USA	Active Duty and Guard/Reserve	Yes	15.4	15.1	20.9	19.9	21.1	20.1	18.0	16.9	18.9	18.0
Not in USA	Dependent of Active Duty & Guard/Reserve	Non-Active Duty	15.1	16.2	13.6	17.0	15.7	17.8	11.0	11.2	13.9	15.5
Not in USA	Retiree/Depend of Retir/Surviv/Other 65+	Non-Active Duty	58.8	58.8	58.3	58.3	50.0	50.0	30.0	30.0	51.1	51.0
Not in USA	Retiree/Depend of Retir/Surviv/Other <65	Non-Active Duty	31.8	33.0	35.3	35.1	32.4	33.2	27.7	29.4	31.7	32.7

RR=Unweighted

RR_w=Weighted

* Only Active Duty received the email notification

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APPENDIX E

TECHNICAL DESCRIPTION OF THE 2010 TRICARE BENEFICIARY REPORTS

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The beneficiary reports will present 11 scores for each region and catchment area in the MHS and for the MHS overall. Scores will enable users to compare providers to national benchmarks in these areas: getting needed care; getting care quickly; how well doctors communicate; customer service; claims processing; rating of the health plan, health care, personal doctor, and specialist; preventive care standards; and health behavior. These scores are made up of three different types, described in Table E.1: CAHPS composites, ratings, and TMA standard composites. A trend page compares composites and ratings with values from previous quarters, calculates a quarterly trend, and tests the trend for statistical significance in the quarterly version of the beneficiary reports. In the annual version, results from 3 years are presented.

TABLE E.1

CONTENT OF THE 2010 TRICARE BENEFICIARY REPORTS

CAHPS COMPOSITES
<p>The CAHPS composites group together survey responses to a set of related HCSDb questions taken from CAHPS. Scores expressed as CAHPS composites profile TRICARE beneficiaries' satisfaction with their ability to get needed care, the speed with which they receive care, interactions with their doctor, their experience with customer service representatives, and their experience with claims processing. Scores are presented in relation to national benchmarks.</p>
SATISFACTION RATINGS
<p>Scores expressed as ratings reflect beneficiaries' self-rated satisfaction with their health plan, health care, and personal providers. The scores, adjusted for patient age and health status, are presented relative to national benchmarks.</p>
TMA STANDARD COMPOSITES
<p>Two TMA standard composite scores are reported. One score is based on how the preventive care that beneficiaries received compares with Healthy People 2010 standards. Preventive care indicators to be combined are prenatal care, hypertension screening, mammography, and Pap smears. Another composite combines a non-smoking rate, the rate at which smokers are counseled to quit, and rate of non-obese BMI ratio.</p>

Table E.2.1 lists the questions and response choices for the CAHPS 4.0 composites in the beneficiary reports. Question numbers refer to the CAHPS 4.0 Adult Questionnaire (Commercial). Response choices for each question within a composite are collapsed into three-item scales so that all composites have the same range. Along with the composites, mean responses to each question are presented and compared to national civilian benchmarks.

Four scores are based on respondents' ratings of health care and health care providers: health plan, health care, personal doctor, and specialist. These ratings are measures of overall beneficiary satisfaction. Questions about these aspects of care request beneficiaries to rate their health plan, health care, and physicians on a scale of 0 to 10, with 0 being the worst and 10 being the best. The rating score will be the mean. For the purpose of presentation, the means are multiplied by 100 so that the scores are presented on a scale of 0 to 100.

TABLE E.2.1

CAHPS 4.0 QUESTIONS AND RESPONSE CHOICES
EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT QUESTIONNAIRE CAHPS 4.0	GETTING NEEDED CARE	RESPONSE CHOICE
Q17	In the last 12 months, how often was it easy to get appointments with specialists?	Never Sometimes Usually Always
Q21	In the last 12 months, how often was it easy to get the care, tests, or treatment you thought you needed through your health plan?	Never Sometimes Usually Always
GETTING CARE QUICKLY		
Q6	In the last 12 months, not counting times you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?	Never Sometimes Usually Always
Q4	In the last 12 months, when you needed care right away, how often did you get care as soon as you thought you needed?	Never Sometimes Usually Always
HOW WELL DOCTORS COMMUNICATE		
Q12	In the last 12 months, how often did your personal doctor listen carefully to you?	Never Sometimes Usually Always
Q11	In the last 12 months, how often did your personal doctor explain things in a way that was easy to understand?	Never Sometimes Usually Always
Q13	In the last 12 months, how often did your personal doctor show respect for what you had to say?	Never Sometimes Usually Always
Q14	In the last 12 months, how often did your personal doctor spend enough time with you?	Never Sometimes Usually Always

ADULT QUESTIONNAIRE CAHPS 4.0	CUSTOMER SERVICE	RESPONSE CHOICE
-------------------------------	------------------	-----------------

Q23	In the last 12 months, how often did your health plan's customer service give you the information or help you needed?	Never Sometimes Usually Always
Q24	In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect?	Never Sometimes Usually Always

ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 4.0	CLAIMS PROCESSING	
--	-------------------	--

H14	In the last 12 months, how often did your health plan handle your claims quickly?	Never Sometimes Usually Always
H15	In the last 12 months, how often did your health plan handle your claims correctly?	Never Sometimes Usually Always

RATING OF ALL HEALTH CARE		
---------------------------	--	--

Q8	Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?	0 Worst health care possible 1 2 3 4 5 6 7 8 9 10 Best health care possible
----	---	---

ADULT QUESTIONNAIRE CAHPS 4.0	RATING OF HEALTH PLAN	RESPONSE CHOICE
Q27	Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?	0 Worst health plan possible 1 2 3 4 5 6 7 8 9 10 Best health plan possible
RATING OF PERSONAL DOCTOR		
Q15	Using any number from 0 to 10, where 0 is the worst personal doctor or nurse possible and 10 is the best personal doctor or nurse possible, what number would you use to rate your personal doctor or nurse?	0 Worst personal doctor or nurse possible 1 2 3 4 5 6 7 8 9 10 Best personal doctor or nurse possible
RATING OF SPECIALIST		
Q19	We want to know your rating of the specialist you saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate the specialist?	0 Worst specialist possible 1 2 3 4 5 6 7 8 9 10 Best specialist possible

Table E.2.2 lists the questions and response choices for the CAHPS 3.0 composites used for re-calculating scores from previous quarters for comparative purposes in the beneficiary reports. Question numbers refer to the CAHPS 3.0 Adult Questionnaire (Commercial). The ratings questions are not listed here, as they were identical in both versions.

TABLE E.2.2

CAHPS 3.0 QUESTIONS AND RESPONSE CHOICES
EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT QUESTIONNAIRE CAHPS 3.0	GETTING NEEDED CARE	RESPONSE CHOICE
Q9	In the last 12 months, how much of a problem, if any, was it to see a specialist that you needed to see?	A big problem A small problem Not a problem
Q22	In the last 12 months, how much of a problem, if any, was it to get the care, tests, or treatment you or your doctor believed necessary?	A big problem A small problem Not a problem
GETTING CARE QUICKLY		
Q18	In the last 12 months, not counting the times you needed health care right away, how often did you get an appointment for healthcare as soon as you wanted?	Never Sometimes Usually Always
Q16	In the last 12 months, when you needed care right away for an illness, injury, or condition, how often did you get care as soon as you wanted?	Never Sometimes Usually Always
HOW WELL DOCTORS COMMUNICATE		
Q28	In the last 12 months, how often did doctors or other health providers listen carefully to you?	Never Sometimes Usually Always
Q29	In the last 12 months, how often did doctors or other health providers explain things in a way you could understand?	Never Sometimes Usually Always
Q30	In the last 12 months, how often did doctors or other health providers show respect for what you had to say?	Never Sometimes Usually Always
Q31	In the last 12 months, how often did doctors or other health providers spend enough time with you?	Never Sometimes Usually Always

ADULT QUESTIONNAIRE CAHPS 3.0	CUSTOMER SERVICE	RESPONSE CHOICE
Q36	In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your health plan's customer service?	A big problem A small problem Not a problem
ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 3.0	CLAIMS PROCESSING	
CP2	In the last 12 months, how often did your health plan handle your claims in a reasonable time?	Never Sometimes Usually Always Don't Know
CP3	In the last 12 months, how often did your health plan handle your claims correctly?	Never Sometimes Usually Always Don't Know

The preventive care composite in the beneficiary reports measures MHS performance in terms of meeting TMA's goals for the provision of preventive services. The composite is calculated by combining the responses to individual questions pertaining to these goals. Questions and responses from the present version of the 2010 HCSDB that are incorporated into the preventive care composite are presented in Table E.3. When individual scores in the preventive care composite are combined, the resulting composite is weighted by the number of questions to which a normal population has responded. Therefore, the weight a particular question receives in the composite score is based on the number of responses it "receives". The resulting proportion is presented as a percentage.

TABLE E.3

QUESTIONS AND RESPONSE CHOICES ON PREVENTIVE CARE
EXPRESSED AS A STANDARD TMA COMPOSITE

2010 ADULT HCSDB	COMPOSITE PREVENTIVE CARE	RESPONSE CHOICES
H10048	When did you last have a blood pressure reading?	Less than 12 months ago 1 to 2 years ago More than 2 years ago
H10049	Do you know if your blood pressure is too high?	Yes, it is too high No, it is not too high Don't know
H10057	When did you last have a Pap smear test?	Within the last 12 months 1 to 3 years ago More than 3 but less than 5 years ago 5 or more years ago Never had a Pap smear
H10059	When was the last time your breasts were checked by mammography?	Within the last 12 months 1 to 2 years ago More than 2 but less than 5 years ago 5 or more years ago Never had a mammogram
H10062	In which trimester did you first receive prenatal care?	First trimester Second trimester Third trimester Did not receive prenatal care
H10069F, H10069I	How tall are you without your shoes on? Please give your answer in feet and inches.	_____ feet _____ inches
H10070	How much do you weigh without your shoes on? Please give your answer in pounds.	_____ pounds

The healthy behavior composite measures the success of TMA's efforts to reduce smoking and obesity rates. The composite consists of a non-smoking rate, which is the proportion of adults not smoking or who quit more than a year ago, the counseled to quit rate, which is the proportion of smokers with office visits who were counseled to quit during at least one visit, and the rate of adults with non-obese BMI ratio. The composite weights these three measures equally.

TABLE E.4.1

CAHPS 4.0 QUESTIONS AND RESPONSE CHOICES
EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 4.0	SMOKING	RESPONSE CHOICE
H45	Do you now smoke every day, some days or not at all?	Every day Some days Not at all Don't know
H46	In the last 12 months, on how many visits were you <u>advised to quit</u> smoking by a doctor or other health provider in your plan?	None 1 visit 2 to 4 visits 5 to 9 visits 10 or more visits I had no visits in the last 12 months

TABLE E.4.2

CAHPS 3.0 QUESTIONS AND RESPONSE CHOICES
EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 3.0	SMOKING	RESPONSE CHOICE
H12	Have you ever <u>smoked</u> at least 100 cigarettes in your entire life?	Yes No Don't know

APPENDIX F

SAS CODE FOR FILE DEVELOPMENT – QUARTERS I-IV

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F.1 Q4FY2010\PROGRAMS\WEIGHTING\MERGESYN.SAS - COMBINE ITEM RESPONSE DATA FROM SURVEY CONTRACTOR WITH THE MPR SAMPLING AND DEERS VARIABLES.

```

*****
*
* PROGRAM:  Changed from MERGENRC.SAS to MERGESYN.SAS
* TASK:    QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE: COMBINE ITEM RESPONSE DATA FROM SYNOVATE WITH THE MPR SAMPLING AND
*          DEERS VARIABLES.  ALSO, CONSTRUCT XREGION AND CONUS.
* WRITTEN: 01/31/2001 BY KEITH RATHBUN
*
* MODIFIED: 1) 03/13/2002 BY KEITH RATHBUN for 2002 survey: Added MPCSMPL,
*            SERVAREA and DCATCH.  Drop SUBDEMO.
*            2) 03/11/2003 BY KEITH RATHBUN for 2003 survey: Removed the
*            processing involving the FLAG_FIN file.  NRC now sends
*            all records regardless of FLAG_FIN.
*            3) 09/28/2004 BY JACQUELINE AGUFA: Moved the code that constructs
*            XREGION, XTNEXREG and CONUS to CONVARQ.SAS.
*            4) 10/20/2004 BY KEITH RATHBUN: Recode unknown values of
*            MRTLSTAT into one group.
*            5) 06/22/2005 BY JACQUELINE AGUFA: Add ACV to mergenrc.sd2
*
* INPUTS:  1) DODyyQnF.sas7bdat - Quarterly DOD Health Survey Data from Synovate
*            where n = Quarter Number
*            yy = Survey Administration Year
*            2) BWT.sas7bdat - MPR Sampling and DEERS variables
*            3) SAMPLA02.sas7bdat - DEERS variables
*
* OUTPUTS: 1) MERGESYN.sas7bdat - Quarterly DOD Health Survey Data
*            (Combined SYNOVATE, MPR, and DEERS variables)
*
*****;
LIBNAME INr      "K:\Q4FY2010"; /*Restricted folder*/
LIBNAME IN       "..\..\DATA\afinal";
LIBNAME OUT      v9  "..\..\DATA\afinal";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* Define fielding start date so AGE can be recalculated based on DOB.
* Also assign quarter and number of eligibility periods.
*****;
%LET FIELDDATE = 07012010; * mmdyyyy;
%LET FIELDLBL  = July 1st 2010;
%LET QUARTER   = Q4FY2010;
%LET NUMPD    = 39; *Add 1 to number of Quarters processed each quarter;

*****
* SORT the Synovate-Provided file and the original sample (BWT).
*****;
PROC SORT DATA=IN.dod10q4f OUT=SYNFILE;
      BY MPRID;
RUN;

DATA SYNFILE;
  LENGTH MPRID $8;
  SET SYNFILE;
*****
* JMA 6/16/2009
* Rename H09034A H09034B per Eric
*****;

RENAME
H10034A  =H10034B
S10D02B  =S10D02
S10D03B  =S10D03
      ;

RUN;

PROC SORT DATA=IN.BWT OUT=BWT; BY MPRID; RUN;

*****

```

```

* Attach DEERS variables to the combined file that were omitted from the
* BWT file.
*****;
PROC SORT DATA=INr.SAMPLA02 OUT=SAMPLA02
      (KEEP=MPRID DAGEQY DBENCAT DCATCH DMEDELG DSPONSVC /*LEGDDSCD (JMA 09/18/2007)*/
      MBRRELCD
      MEDTYPE MRTLSTAT PATCAT PCM RACEETHN
      PNLCATCD PNBRTHTDT PAYPLNCD /*E1-E&NUPD*/ ACV);
      BY MPRID;

RUN;

*****
* Attach the original sampling variables to the combined file.
*****;
DATA MERGESYN;
  MERGE BWT SYNFILE(in=in2) SAMPLA02(in=in1);
  BY MPRID;
  /*FLAG_FIN = COMPRESS(FLAG_FIN); *Trim off the blanks; Apr 3 2007 */

*****
* DROP variables that are not needed.
*****;
DROP SVCCD GEOSMPL GEOCELL /*EBG_COM*/ EBSMPL
      D_INSTAL /*GROUP_geosmpl*/ ;

LABEL /*CACSMPL = 'CACSMPL - Catchment Area' */ /*Dec 15, 2006*/
      BWT = 'BWT - Basic Sampling Weight'
      ENBGSMPL = 'ENBGSMPL - Beneficiary/Enrollment Status'
      NHFF = 'NHFF - Stratum Sample Size'
      SEXSMPL = 'SEXSMPL - Sex'
      STRATUM = 'Stratum'
      SVCSMPL = 'SVCSMPL - Branch of Service'
      FLAG_FIN = 'Final Disposition'
      ;
  IF IN2 AND NOT IN1 THEN
    PUT "ERROR: MPRID Not Found in both the SYNOVATE and MPR files, MPRID = " MPRID;

  IF IN2 AND IN1 THEN OUTPUT MERGESYN;
RUN;

DATA OUT.MERGESYN;
  SET MERGESYN(/*RENAME=(COMMENT_FLAG=CMNTFLAG)*/);
  BY MPRID;
  *****
  * Construct MPCSMPL.
  *****;
  IF PAYPLNCD = 'MO' THEN
    MPCSMPL = 2;
  ELSE IF PAYPLNCD = 'MW' THEN
    MPCSMPL = 3;
  ELSE
    MPCSMPL = 1;
  *****
  * Calculate FIELDAGE based on PNBRTHTDT using fielding period
  * starting date.
  *****;
  FIELDAGE = INPUT("&FIELDAGE",mmddy8.);
  DOB = SUBSTR(PNBRTHTDT,5,2) || SUBSTR(PNBRTHTDT,7,2) || SUBSTR(PNBRTHTDT,1,4);
  BRTHDATE = INPUT(DOB,mmddy8.);

  FIELDAGE = PUT(INT((FIELDAGE - BRTHDATE)/365.25),Z3.);
  LABEL MPCSMPL = "MPCSMPL - Military Personnel Category";
  LABEL FIELDAGE = "Age as of &FIELDLBL";
  LABEL DCATCH = "Catchment Area";

  LENGTH QUARTER $8;
  QUARTER = "&QUARTER";
  LABEL QUARTER = 'Survey Quarter';

  LENGTH ONTIME $3;
  ONTIME = "YES";
  LABEL ONTIME = "Responded Within 8 weeks of Mail-Out";

```

```

*****
* Recode unknown values of MRTLSTAT into one 'Unknown' group (Z).
*****;
IF MRTLSTAT NOT IN ("A","D","I","L","M","N","S","W","Z"," ") THEN MRTLSTAT = "Z";

DROP FIELD DATE DOB BRTHDATE PNBRTHTDT PAYPLNCD;

RUN;

TITLE1 "Quarterly DOD Health Survey - Combine SYNOVATE, MPR and DEERS variables (6663-0500)";
TITLE2 "Program Name: MERGESYN.SAS By Jacqueline Agufa";
TITLE3 "Program Inputs: DODyyQnF.sas7bdat, BWT.sas7bdat, SAMPLA02.sas7bdat -- Program Output:
MERGESYN.sas7bdat";

PROC CONTENTS; RUN;

PROC FORMAT;
  Value $ACV
    'A'='Active Duty Prime'
    'B'='TRICARE Global Remote Overseas Prime Active Duty'
    'D'='TRICARE Senior Prime enrollee'
    'E'='Non-Active Duty Prime'
    'F'='TRICARE Global Remote Overseas Prime ADFM'
    'G'='TRICARE Plus (CHAMPUS/TFL Eligible)'
    'H'='TRICARE Overseas Prime AD'
    'J'='TRICARE Overseas Prime ADFM'
    'L'='TRICARE Plus (w/o civilian healthcare)'
    'M'='AD not reported as enrolled'
    'R'='TRICARE Reserve Select'
    'Q'='Active Duty enrolled to Op Forces'
    'U'='USFHP/USTF'
    ' ', 'Z'='Not enrolled in TRICARE Prime or USFHP'
  ;

  VALUE $ENBGS
    '01' = "Active duty"
    '02' = "Active duty fam,Prime,civ PCM"
    '03' = "Active duty fam,Prime,mil PCM"
    '04' = "Active duty fam,non-enrollee"
    '05' = "Retired,<65,civ PCM"
    '06' = "Retired,<65,mil PCM"
    '07' = "Retired,<65,non-enrollee"
    '08' = "Retired,65+,civ PCM"
    '09' = "Retired,65+,mil PCM"
    '10' = "Retired,65+,non-enrollee"
    '11' = "TRICARE Reserve Select"
  ;

RUN;

PROC FREQ DATA=OUT.MERGESYN(DROP=MPRID PRN MIQCNTL);
  TABLES WEB FLAG_FIN DAGEQY*FIELDAGE ACV PCM ENBGS MPL
  ACV*PCM ACV*ENBGS MPL
  _ALL_ /MISSING LIST;
  FORMAT ACV $ACV. ENBGS MPL $ENBGS.;
RUN;

```

F.2.A Q1FY2010\PROGRAMS\CODINGScheme\CSCHM10Q.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES FOR QUARTER 1 FY2010.

```
*****;
* Program: Cschml0q.sas
* Written: 06/04/2001
* Author: C. Rankin
*
* Input: MERGESYN.sas7bdat - Merged MPR Sampling, DEERS, and Synovate Response Data
* Output: CSCHM10Q.sas7bdat - Coding scheme file
*
* Modified: 9/20/2001 - Recodes removed (stored in recodes_old.sas)
*           10/31/2001 - Revised notes 16 and 17 (became notes 26 and 27)
*           3/22/2002 - Updated Variable names for Q1 2002 and added
*                   Include file RENAME.SAS to change the variable
*                   names from 01 to 02. Skipping 01 designation to make
*                   survey reflect year of fielding
*           5/09/2002 - Change to logic in TFL supplement
*           3/17/2003 - Updated Variables names for Q1 2003
*           4/11/2003 - Added note 19a to accomodate Q1 2003 error where
*                   an option on most of the questionnaires was omitted for
*                   H03062
*           3/28/2008 - Updated Variable names for Q2 FY 2008
*           12/14/2009 - Updated Variable names for Q1 FY 2010
* Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
*           Response Data, check for consistency in responses and skip
*           patterns
* Include
* files: Cschml0q.fmt
*****;
```

```
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
```

```
LIBNAME LIBRARY      "...\\DATA\AFINAL\FMTLIB";
LIBNAME IN          v9 "...\\DATA\AFINAL";
LIBNAME OUT         v9 "...\\DATA\AFINAL";
```

```
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM10q;
%LET PERIOD=October 2008 to September, 2009;
```

```
/* Variable names in survey -- become recoded variables */
```

```
%Let varlist1 =
```

```
H10001 H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
H10002I H10002J H10002K H10002M H10002R H10002L H10003 H10004
H10005 H10006 H10007 H10008 H10009 H10010 H10011 H10012 H10013 H10014
H10015 H10016 H10017 H10018 H10019 H10020 H10021 H10022 H10023 H10024
H10025 H10026 H10027
S10009 S10010
H10028 H10029 H10030 H10031
S10B01 S10B02 S10B03 S10B04
H10032 H10033 H10034B H10034 H10035 H10036 H10037 H10038 H10039 H10040
H10041 H10042 H10043 H10044 H10045 H10046 H10047
S10G18 S10G19 S10G23 S10G27 S10G28
S10G29A S10G29B S10G29C S10G29D S10G29E S10G29F S10G29G S10G29H S10G29I S10G29J
S10G29K
S10G30 S10G31 S10G32 S10G33 S10G34 S10G35 S10G40 S10G41 S10G42 S10G43
H10048 H10049 H10050 H10051 H10052 H10053 H10054 H10055
S10D03 S10D02
H10056 H10057 H10058 H10059 H10060 H10061 H10062 H10063 H10064 H10065
H10066 H10067 H10068
S10B23 S10B24 S10B25 S10B26
H10069F H10069I H10070
S10B22
SREDA H10071A H10071B H10071C H10071D H10071E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE
H10072 H10073 H10074
S10011 S10014
;
```

```

/* _O variables are the original values from the survey response */

%Let varlist2 =
H10001_O H10002AO H10002CO H10002NO H10002OO H10002PO H10002QO H10002FO H10002GO H10002HO
H10002IO H10002JO H10002KO H10002MO H10002RO H10002LO H10003_O H10004_O
H10005_O H10006_O H10007_O H10008_O H10009_O H10010_O H10011_O H10012_O H10013_O H10014_O
H10015_O H10016_O H10017_O H10018_O H10019_O H10020_O H10021_O H10022_O H10023_O H10024_O
H10025_O H10026_O H10027_O
S10009_O S10010_O
H10028_O H10029_O H10030_O H10031_O
S10B01_O S10B02_O S10B03_O S10B04_O
H10032_O H10033_O H10034BO H10034_O H10035_O H10036_O H10037_O H10038_O H10039_O H10040_O
H10041_O H10042_O H10043_O H10044_O H10045_O H10046_O H10047_O
S10G18_O S10G19_O S10G23_O S10G27_O S10G28_O
S10G29AO S10G29BO S10G29CO S10G29DO S10G29EO S10G29FO S10G29GO S10G29HO S10G29IO S10G29JO
S10G29KO
S10G30_O S10G31_O S10G32_O S10G33_O S10G34_O S10G35_O S10G40_O S10G41_O S10G42_O S10G43_O
H10048_O H10049_O H10050_O H10051_O H10052_O H10053_O H10054_O H10055_O
S10D03_O S10D02_O
H10056_O H10057_O H10058_O H10059_O H10060_O H10061_O H10062_O H10063_O H10064_O H10065_O
H10066_O H10067_O H10068_O
S10B23_O S10B24_O S10B25_O S10B26_O
H10069FO H10069IO H10070_O
S10B22_O
SREDA_O H10071AO H10071BO H10071CO H10071DO H10071EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O
H10072_O H10073_O H10074_O
S10011_O S10014_O
;

TITLE "DoD 2010 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";

DATA MERGESYN;

    SET IN.MERGESYN(RENAME=(H10070 = H10070CH
                            ));

*****
* Code added by Jacqueline Agufa 09/15/2004 to fix name of race variable;
*****

RENAME SRACEA = SRRACEA;
RENAME SRACEB = SRRACEB;
RENAME SRACEC = SRRACEC;
RENAME SRACED = SRRACED;
RENAME SRACEE = SRRACEE;

**** update variables with both filled items and check boxes
**** Per Eric Schone;

IF H10069F LT 1      THEN H10069F=H10069FN;
IF H10069I IN (-9,.) THEN H10069I=H10069IN;

H10070= COMPRESS(H10070CH,' ')*1;

DROP H10070CH;

IF H10070=0 AND H10070N=-9 THEN H10070 =H10070N;
IF H10070<100 AND H10070N NE -9 THEN H10070 =H10070N;

*** Correct odd height and weights Per Eric Schone;

IF H10069F NOT IN (-9,.) THEN DO;
    IF H10069F < 2 OR
       H10069F > 8

```

```

        THEN H10069F= -7;
    END;

    IF 0 <= H10070 < 40 OR
        H10070 > 500
    THEN H10070= -7;

RUN;

DATA OUT.CSCHM10q;

    LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
    INFORMAT &VARLIST2. 4.;
    %INCLUDE "CSCHM10q.FMT";

/* label and format statements for original variables */

    SET MERGESYN;

*****;
**** Recodes for invalid responses:*****;
*****;

/* This is a version of the coding scheme and coding tables for the
FY 2010 HCSDB Form A.
The following tables outline the coding of screening questions (skip),
and subsequent items to be answered (or not answered in a series
following a skip question.) */

/* First set up new variables that capture the original values */
/* recode the initial numeric values to the SAS numeric values */
/* specified in the coding scheme */

    SEX=PNSEXCD;
    AGE=INPUT(DAGEQY,8.);

    ARRAY RECODE(*) &VARLIST1;
    ARRAY ORIG(*) &VARLIST2;

    DO I = 1 to DIM(ORIG);
        ORIG(I) = RECODE(I);
        IF ORIG(I) < 0 THEN DO;
            IF ORIG(I)= -9 THEN RECODE(I)=.;
            ELSE IF ORIG(I)= -8 THEN RECODE(I)=.A;
            ELSE IF ORIG(I)= -7 THEN RECODE(I)=.O;
            ELSE IF ORIG(I)= -6 THEN RECODE(I)=.N;
            ELSE IF ORIG(I)= -5 THEN RECODE(I)=.D;
            ELSE IF ORIG(I)= -4 THEN RECODE(I)=.I;
            ELSE IF ORIG(I)= -1 THEN RECODE(I)=.C;
            ELSE RECODE(I)=RECODE(I);
        END;
    END;
    DROP I;

/* recode selected responses to be 1=marked, 2=unmarked */

    ARRAY MARKED(*)
        H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
        H10002I H10002J H10002K H10002M H10002R H10002L

        S10G29A S10G29B S10G29C S10G29D S10G29E S10G29F S10G29G S10G29H S10G29I
        S10G29J S10G29K

        H10071A H10071B H10071C H10071D H10071E
        SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
        ;

```



```

ARRAY INFORMAT(*)
    H10002AO H10002CO H10002NO H10002OO H10002PO H10002QO H10002FO H10002GO H10002HO
    H10002IO H10002JO H10002KO H10002MO H10002RO H10002LO

    S10G29AO S10G29BO S10G29CO S10G29DO S10G29EO S10G29FO S10G29GO S10G29HO S10G29IO
    S10G29JO S10G29KO

    H10071AO H10071BO H10071CO H10071DO H10071EO
    SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO

```

```
;
```

```

DO J=1 TO DIM(INFORMAT);
    IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
    ELSE MARKED(J)=2;
END;
DROP J;

```

```

FORMAT
    H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
    H10002I H10002J H10002K H10002M H10002R H10002L

    S10G29A S10G29B S10G29C S10G29D S10G29E S10G29F S10G29G S10G29H S10G29I
    S10G29J S10G29K

    H10071A H10071B H10071C H10071D H10071E
    SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
MARKED.;

```

```
*****;
```

```
/* skip coding scheme for all surveys not returned **/
```

```
IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;
```

```
/** Note 1 -- H10003, H10004 health plan usage **/
```

```

IF H10003 > 0 OR H10003 =.D THEN N1=1;
ELSE IF H10003=.N THEN DO;
    IF H10004 NOT=. THEN DO;
        N1=2;
        H10004= .C;
    END;
    ELSE DO;
        N1=3;
        H10004=.N;
    END;
END;
ELSE IF H10003=. THEN N1=4;

```

```
/** Note 2 -- H10006,H10007,H10008: illness or injury **/
```

```

ARRAY NOTE2 H10007 H10008;
N2MARK=0;
N2NMISS=0;
N2NN=0;

```

```

DO OVER NOTE2;
    IF NOTE2 NE . THEN N2NMISS+1;
    IF NOTE2 NOT IN (.N,.) THEN N2MARK+1;
    IF NOTE2 EQ .N THEN N2NN+1;
END;

```

```

IF H10006=1 AND N2NMISS=0 THEN DO;
    N2=1;
END;
ELSE IF H10006 IN (1,.) AND N2NMISS>0 AND N2MARK=0 THEN DO;
    H10006=2;

```

```

N2=2;
DO OVER NOTE2;
  IF NOTE2=. THEN NOTE2=.N;
  ELSE NOTE2=.C;
END;
END;
ELSE IF H10006=1 AND N2MARK=1 AND N2NN=1 THEN DO;
  DO OVER NOTE2;
  IF NOTE2=.N THEN NOTE2=.;
  END;
  N2=3;
END;
ELSE IF H10006=1 AND N2MARK>0 THEN DO;
  N2=4;
END;
ELSE IF H10006=2 AND N2MARK=1 AND N2NN=1 THEN DO;
  H10007=.C;
  H10008=.C;
  N2=5;
END;
ELSE IF H10006 IN (2,.) AND N2MARK>0 THEN DO;
  H10006=1;
  N2=6;
  DO OVER NOTE2;
  IF NOTE2=.N THEN NOTE2=.;
  END;
END;
ELSE IF H10006=2 AND (N2NMISS=0 OR (N2NMISS>0 AND N2MARK=0)) THEN DO;
  N2=7;
  DO OVER NOTE2;
  IF NOTE2=. THEN NOTE2=.N;
  ELSE NOTE2=.C;
  END;
END;
ELSE IF H10006=. AND N2NMISS=0 THEN N2=8;

```

```
DROP N2NMISS N2MARK N2NN;
```

```
/** Note 3 -- H10009,H10010,H10011: regular or routine healthcare **/
```

```

ARRAY Note3 H10010 H10011;
N3MARK=0;
N3NMISS=0;
N3NN=0;

DO OVER Note3;
  IF Note3 NE . THEN N3NMISS+1;
  IF Note3 NOT IN (.N,.) THEN N3MARK+1;
  IF Note3 EQ .N THEN N3NN+1;
END;

IF H10009=1 AND N3NMISS=0 THEN DO;
  N3=1;
END;
ELSE IF H10009 IN (1,.) AND N3NMISS>0 AND N3MARK=0 THEN DO;
  H10009=2;
  N3=2;
  DO OVER Note3;
  IF Note3=. THEN Note3=.N;
  ELSE Note3=.C;
  END;
END;
ELSE IF H10009=1 AND N3MARK=1 AND N3NN=1 THEN DO;
  DO OVER Note3;
  IF Note3=.N THEN Note3=.;
  END;
  N3=3;
END;
ELSE IF H10009=1 AND N3MARK>0 THEN DO;
  N3=4;
END;
ELSE IF H10009=2 AND N3MARK=1 AND N3NN=1 THEN DO;

```

```

H10010=.C;
H10011=.C;
N3=5;
END;
ELSE IF H10009 IN (2,..) AND N3MARK>0 THEN DO;
H10009=1;
N3=6;
DO OVER Note3;
IF Note3=.N THEN Note3=.;
END;
END;
ELSE IF H10009=2 AND (N3NMISS=0 OR (N3NMISS>0 AND N3MARK=0)) THEN DO;
N3=7;
DO OVER Note3;
IF Note3=. THEN Note3=.N;
ELSE Note3=.C;
END;
END;
ELSE IF H10009=. AND N3NMISS=0 THEN N3=8;

```

```
DROP N3NMISS N3MARK N3NN;
```

```
/** Note 4 -- H10013, H10014-H10018: doctor's office or clinic **/
```

```
ARRAY NOTE4 H10014-H10018;
```

```
N4MARK=0;
N4NMISS=0;
```

```
DO OVER NOTE4;
IF NOTE4 NE . THEN N4NMISS+1;
IF NOTE4 NOT IN (., .N) THEN N4MARK+1;
END;
```

```
IF H10013=1 THEN DO;
N4=1;
DO OVER NOTE4;
IF NOTE4=. THEN NOTE4=.N;
ELSE NOTE4=.C;
END;
END;
ELSE IF H10013 IN (2,3,4,5,6,7,..) AND N4NMISS>0 AND N4MARK=0 THEN DO;
H10013=1;
N4=2;
DO OVER NOTE4;
IF NOTE4=. THEN NOTE4=.N;
ELSE NOTE4=.C;
END;
END;
ELSE IF H10013 IN (2,3,4,5,6,7) AND (N4NMISS=0 OR N4MARK>0) THEN DO;
DO OVER NOTE4;
IF NOTE4=.N THEN NOTE4=.;
END;
N4=3;
END;
ELSE IF H10013=. AND N4NMISS=0 THEN N4=4;
ELSE IF H10013 IN (.) AND N4MARK>0 THEN DO;
N4=5;
DO OVER NOTE4;
IF NOTE4=.N THEN NOTE4=.;
END;
END;
```

```
DROP N4NMISS N4MARK;
```

```
/** Note 5 -- H10015, H10016-H10017: doctor's office or clinic- treatment **/
```

```
IF H10015 IN (.,.C) THEN N5=1;
ELSE IF H10015= 1 THEN N5=2;
ELSE IF H10015 IN (2,..) AND H10016 IN (1,2) THEN DO;
```

```

        N5=3;
        H10015=1;
    END;
ELSE IF H10015 IN (2,.) AND (H10016 IN (3,4,.) AND H10017 IN (1,2)) THEN DO;
    N5=4;
    H10015=1;
END;
ELSE IF H10015 IN (2) AND (H10016 IN (3,4,.) AND H10017 IN (3,4,)) THEN DO;
    N5=5;
    IF H10016 = . THEN H10016 = .N;
    ELSE H10016 = .C;
    IF H10017 = . THEN H10017 = .N;
    ELSE H10017 = .C;
END;
ELSE IF H10015 IN (.) AND (H10016 IN (3,4,.) AND H10017 IN (3,4,)) THEN DO;
    N5=6;
END;

```

```

/** Note 6 -- H10019, H10020-H10027, S10009: personal doctor **/
/* MER 07/01/09 */

```

```

ARRAY NOTE6 H10021-H10024;

```

```

N6MARK=0;

```

```

DO OVER NOTE6;
    IF NOTE6 NOT IN (., .N) THEN N6MARK+1;
END;

```

```

IF H10020 NOT IN (0,.) THEN N6MARK+1;

```

```

IF H10019 = 1 THEN DO;
    N6=1;
    IF H10027=.N THEN H10027=.;
END;
ELSE IF H10019 in (2,.) AND H10027 in (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
    N6=2;
    H10019=1;
END;
ELSE IF H10019 in (2,.) AND N6MARK>0 AND H10027 = . THEN DO;
    N6=3;
    H10019=1;
END;
ELSE IF H10019 = 2 AND N6MARK>0 AND H10027 = .N THEN DO;
    N6=4;
    IF H10020=. THEN H10020=.N;
    ELSE H10020=.C;
    DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
    IF S10009=. THEN S10009=.N;
    ELSE S10009=.C;
    H10027=.C;
END;
ELSE IF H10019 = 2 AND N6MARK=0 AND H10027 in (.N,.) THEN DO;
    N6=5;
    IF H10020=. THEN H10020=.N;
    ELSE H10020=.C;
    DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;

```

```

        IF S10009=. THEN S10009=.N;
        ELSE S10009=.C;
        IF H10027=. THEN H10027=.N;
        ELSE H10027=.C;
    END;
ELSE IF H10019 = . AND H10027 = .N THEN DO; /* MER 07/31/09 combined rows 6 and 7 */
    N6=6;
    H10019=2;
    IF H10020=. THEN H10020=.N;
    ELSE H10020=.C;
    DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
    IF S10009=. THEN S10009=.N;
    ELSE S10009=.C;
    H10027=.C;
END;
ELSE IF H10019 = . AND N6MARK=0 AND H10027 = . THEN N6=7;

DROP N6MARK;

/** Note 7 -- H10020, H10021-H10026: personal doctor visit **/

ARRAY NOTE7 H10021-H10024;

N7MARK=0;
N7NMISS=0;

DO OVER NOTE7;
    IF NOTE7 NE . THEN N7NMISS+1;
    IF NOTE7 NOT IN (., .N) THEN N7MARK+1;
END;

IF H10020 IN (.N, .C) THEN N7=1;
ELSE IF H10020=0 THEN DO;
    N7=2;
    DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
        ELSE NOTE7=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
END;
ELSE IF H10020 IN (1,2,3,4,5,6,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
    H10020=0;
    N7=3;
    DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
        ELSE NOTE7=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
END;
ELSE IF H10020 IN (1,2,3,4,5,6,.) AND (N7NMISS=0 OR N7MARK>0) THEN DO;
    DO OVER NOTE7;
        IF NOTE7=.N THEN NOTE7=. ;
    END;
    N7=4;
END;

DROP N7NMISS N7MARK;

```

```

/** Note 8 -- H10025, H10026: care from another doctor or healthcare provider **/

IF H10025 IN (.N, .C) THEN N8=1;
ELSE IF H10025=1 THEN N8=2;
ELSE IF H10025 IN (2,.) AND H10026 IN (1,2,3,4) THEN DO;
  H10025=1;
  N8=3;
END;
ELSE IF H10025=2 AND H10026 IN (.) THEN DO;
  H10026=.N;
  N8=4;
END;
ELSE IF H10025=. AND H10026=. THEN N8=5;

/** Note 8A1 -- S10009, S10010: problem getting new personal doctor or nurse **/

IF S10009 IN (.N,.C) THEN N8A1=1; /* MER 07/31/09 gave each S10009 value its own row for
analysis purposes */
ELSE IF S10009=1 THEN DO;
  N8A1=2;
  IF S10010=. THEN S10010=.N;
  ELSE S10010=.C;
END;
ELSE IF S10009=2 THEN N8A1=3;
ELSE IF S10009=. THEN N8A1=4; /* MER 07/31/09 eliminated backward coding for missing S10009
*/

/** Note 9 -- H10028, H10029-H10031: needed to see a specialist in last 12 months **/

ARRAY NOTE9 H10029 H10031;

N9MARK=0;
N9NMISS=0;

DO OVER NOTE9;
  IF NOTE9 NE . THEN N9NMISS+1;
  IF NOTE9 NOT IN (., .N) THEN N9MARK+1;
END;

IF H10030 NE . THEN N9NMISS+1;
IF H10030 NOT IN (.,0) THEN N9MARK+1;

IF H10028 IN (1) THEN DO;
  N9=1;
  IF H10029=.N THEN H10029=.;
END;
ELSE IF H10028 in (2,.) AND N9MARK>0 THEN DO;
  N9=2;
  H10028=1;
  IF H10029=.N THEN H10029=.;
END;
ELSE IF H10028 in (2) THEN DO;
  N9=3;
  DO OVER NOTE9;
    IF NOTE9=. THEN NOTE9=.N;
    ELSE NOTE9=.C;
  END;
  IF H10030=. THEN H10030=.N;
  ELSE H10030=.C;
END;
ELSE IF H10028=. AND N9NMISS>0 AND N9MARK=0 THEN DO;
  N9=4;
  H10028=2;
  DO OVER NOTE9;
    IF NOTE9=. THEN NOTE9=.N;
    ELSE NOTE9=.C;
  END;
  IF H10030=. THEN H10030=.N;
  ELSE H10030=.C;
END;

```

```

ELSE IF H10028=. AND N9NMISS=0 THEN N9=5;

DROP N9NMISS N9MARK;

/** Note 10 -- H10030, H10031: saw a specialist in last 12 months **/

IF H10030 IN (.N,.C) THEN N10=1;
ELSE IF H10030 IN (1,2,3,4,5) AND H10031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN N10=2;
ELSE IF H10030 IN (1,2,3,4,5,..) AND H10031=.N THEN DO;
  H10030=0;
  H10031=.C;
  N10=3;
END;
ELSE IF H10030 = 0 THEN DO;
  IF H10031=. THEN H10031=.N;
  ELSE H10031=.C;
  N10=4;
END;
ELSE IF H10030=. THEN N10=5;

/** Note 10A1 -- S10B02, S10B03-S10B04: overall mental health **/

ARRAY NOTE10A1 S10B03-S10B04;

N10A1MARK=0;
N10A1NMISS=0;

DO OVER NOTE10A1;
  IF NOTE10A1 NE . THEN N10A1NMISS+1;
  IF NOTE10A1 NOT IN (., .N) THEN N10A1MARK+1;
END;

IF S10B02 = 1 THEN DO;
  N10A1=1;
  DO OVER NOTE10A1;
    IF NOTE10A1=.N THEN NOTE10A1=.;
  END;
END;
ELSE IF S10B02 IN (2,..) AND (N10A1MARK>0) THEN DO;
  N10A1=2;
  S10B02=1;
  DO OVER NOTE10A1;
    IF NOTE10A1=.N THEN NOTE10A1=.;
  END;
END;
ELSE IF S10B02=2 AND (N10A1NMISS=0 OR (N10A1NMISS > 0 AND N10A1MARK = 0)) THEN DO;
  N10A1=3;
  DO OVER NOTE10A1;
    IF NOTE10A1 = . THEN NOTE10A1=.N;
    ELSE NOTE10A1 = .C;
  END;
END;
ELSE IF S10B02 IN (.) AND (N10A1NMISS > 0 AND N10A1MARK = 0) THEN DO;
  N10A1=4;
  S10B02=2;
  DO OVER NOTE10A1;
    IF NOTE10A1 = . THEN NOTE10A1=.N;
    ELSE NOTE10A1 = .C;
  END;
END;
ELSE IF S10B02 IN (.) AND N10A1NMISS=0 THEN N10A1=5;

DROP N10A1NMISS N10A1MARK;

/** Note 11 -- H10032, H10033: tried to get care, tests, or treatment from health plan**/

IF H10032=1 AND H10033 IN (1,2,3,4,..) THEN N11=1;
ELSE IF H10032 IN (1,..) AND H10033=.N THEN DO;
  H10032=2;
  H10033=.C;
  N11=2;

```

```

END;
ELSE IF H10032 IN (2,.) AND H10033 IN (1,2,3,4) THEN DO;
  H10032=1;
  N11=3;
END;
ELSE IF H10032=2 AND H10033 IN (.,.N) THEN DO;
  IF H10033=. THEN H10033=.N;
  ELSE H10033=.C;
  N11=4;
END;
ELSE IF H10032=. AND H10033=. THEN N11=5;

/** Note 11B -- H10034B, H10034: look for info in written materials or on internet**/
IF H10034B=1 AND H10034 IN (1,2,3,4,.) THEN N11B=1;
ELSE IF H10034B IN (1,.) AND H10034=.N THEN DO;
  N11B=2;
  H10034B=2;
  H10034=.C;
END;
ELSE IF H10034B IN (2,.) AND H10034 IN (1,2,3,4) THEN DO;
  N11B=3;
  H10034B=1;
END;
ELSE IF H10034B=2 AND H10034 IN (.,.) THEN DO;
  N11B=4;
  IF H10034=. THEN H10034=.N;
  ELSE H10034=.C;
END;
ELSE IF H10034B=. AND H10034=. THEN N11B=5;

/** Note 12 -- H10035, H10036: tried to get cost of service/equipment from health plan**/
IF H10035=1 AND H10036 IN (1,2,3,4,.) THEN N12=1;
ELSE IF H10035 IN (1,.) AND H10036=.N THEN DO;
  H10035=2;
  H10036=.C;
  N12=2;
END;
ELSE IF H10035 IN (2,.) AND H10036 IN (1,2,3,4) THEN DO;
  H10035=1;
  N12=3;
END;
ELSE IF H10035=2 AND H10036 IN (.,.N) THEN DO;
  IF H10036=. THEN H10036=.N;
  ELSE H10036=.C;
  N12=4;
END;
ELSE IF H10035=. AND H10036=. THEN N12=5;

/** Note 13 -- H10037, H10038: tried to get cost of prescription meds from health plan**/
IF H10037=1 AND H10038 IN (1,2,3,4,.) THEN N13=1;
ELSE IF H10037 IN (1,.) AND H10038=.N THEN DO;
  H10037=2;
  H10038=.C;
  N13=2;
END;
ELSE IF H10037 IN (2,.) AND H10038 IN (1,2,3,4) THEN DO;
  H10037=1;
  N13=3;
END;
ELSE IF H10037=2 AND H10038 IN (.,.N) THEN DO;
  IF H10038=. THEN H10038=.N;
  ELSE H10038=.C;
  N13=4;
END;
ELSE IF H10037=. AND H10038=. THEN N13=5;

/** Note 14 -- H10039, H10040-H10041: tried to use health plan's customer service **/

```



```

ARRAY NOTE14 H10040-H10041;

N14MARK=0;
N14NMISS=0;

DO OVER NOTE14;
  IF NOTE14 NE . THEN N14NMISS+1;
  IF NOTE14 NOT IN (., .N) THEN N14MARK+1;
END;

IF H10039 = 1 AND (N14MARK>0 OR N14NMISS=0) THEN DO;
  DO OVER NOTE14;
    IF NOTE14=.N THEN NOTE14=.;
  END;
  N14=1;
END;
ELSE IF H10039 IN (1,.) AND (N14NMISS > 0 AND N14MARK = 0) THEN DO;
  N14=2;
  H10039=2;
  DO OVER NOTE14;
    IF NOTE14 = . THEN NOTE14=.N;
    ELSE NOTE14 = .C;
  END;
END;
ELSE IF H10039 IN (2,.) AND (N14MARK>0) THEN DO;
  N14=3;
  H10039=1;
  DO OVER NOTE14;
    IF NOTE14=.N THEN NOTE14=.;
  END;
END;
ELSE IF H10039=2 AND (N14NMISS=0 OR (N14NMISS > 0 AND N14MARK = 0)) THEN DO;
  N14=4;
  DO OVER NOTE14;
    IF NOTE14 = . THEN NOTE14=.N;
    ELSE NOTE14 = .C;
  END;
END;
ELSE IF H10039 IN (.) AND N14NMISS=0 THEN N14=5;

DROP N14NMISS N14MARK;

/** Note 15 -- H10042, H10043: received forms to fill out from health plan **/

IF H10042=1 AND H10043 IN (1,2,3,4,.) THEN N15=1;
ELSE IF H10042 IN (1,.) AND H10043=.N THEN DO;
  H10042=2;
  H10043=.C;
  N15=2;
END;
ELSE IF H10042 IN (2,.) AND H10043 IN (1,2,3,4) THEN DO;
  H10042=1;
  N15=3;
END;
ELSE IF H10042=2 AND H10043 IN (.,.N) THEN DO;
  IF H10043=. THEN H10043=.N;
  ELSE H10043=.C;
  N15=4;
END;
ELSE IF H10042=. AND H10043=. THEN N15=5;

/** Note 16 -- H10044, H10045-H10046: claims to health plan **/

ARRAY NOTE16 H10045-H10046;
N16MARK=0;
N16NDK=0;

DO OVER NOTE16;
  IF NOTE16 NOT IN (.N,.D,.) THEN N16MARK+1; /* At least one is marked */
  IF NOTE16 NOT IN (.,.D) THEN N16NDK+1; /* All are missing or blank or dnk */
END;

```

```

IF H10044=1 AND (N16MARK>0 OR N16NDK=0) THEN DO;
  N16=1;
  DO OVER NOTE16;
    IF NOTE16=.N THEN NOTE16=.;
  END;
END;
ELSE IF H10044 IN (1,..D) AND N16MARK=0 AND N16NDK>0 THEN DO;
  N16=2;
  H10044=2;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (2,..D) AND N16MARK>0
  THEN DO;
  H10044=1;
  N16=3;
  DO OVER NOTE16;
    IF NOTE16=.N THEN NOTE16=.;
  END;
END;
ELSE IF H10044 IN (2) AND N16MARK=0 THEN DO;
  N16=4;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (.D) AND N16NDK=0 THEN DO;
  N16=5;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (.) AND N16NDK=0 THEN N16=6;

DROP N16MARK N16NDK;

/** Note 16B1 -- S10G18, S10G19, S10G23,
                S10G27-S10G35,
                S10G40-S10G43: self/parent/spouse reservist on active duty
                                for more than 30 consecutive days in support
                                of contingency operations in past year
**/

ARRAY NOTE16B1 S10G19 S10G23 S10G27-S10G28 S10G30-S10G35 S10G40-S10G43;
ARRAY NOTE16B12 S10G29A--S10G29K;

IF S10G18=1
THEN DO;
  IF S10G19 IN (3,4) AND S10G23 IN (3,4) THEN DO;
    N16B1=1;
    S10G18=2;
    DO OVER NOTE16B1;
      IF NOTE16B1 = . THEN NOTE16B1=.N;
      ELSE NOTE16B1=.C;
    END;
    DO OVER NOTE16B12;
      IF NOTE16B12 IN (.,2) THEN NOTE16B12=.N;
      ELSE NOTE16B12=.C;
    END;
  END;
  ELSE IF S10G19 IN (3,4) THEN N16B1=2;
  ELSE IF S10G19 IN (1,2,.) THEN N16B1=3;
END;
ELSE IF S10G18 IN (2, .) THEN DO;
  IF S10G19 IN (1,2) THEN DO;
    N16B1=4;
    S10G18=1;
  END;
  ELSE IF S10G23 IN (1,2) THEN DO;

```

```

N16B1=5;
S10G18=1;
END;
ELSE IF S10G18 IN (2) THEN DO;
  IF S10G19 IN (3,4,..) AND S10G23 IN (3,4,..) THEN DO;
    N16B1=6;
    DO OVER NOTE16B1;
      IF NOTE16B1 = . THEN NOTE16B1=.N;
      ELSE NOTE16B1=.C;
    END;
    DO OVER NOTE16B12;
      IF NOTE16B12 IN (.,2) THEN NOTE16B12=.N;
      ELSE NOTE16B12=.C;
    END;
  END;
END;
ELSE IF S10G18 IN (.) THEN DO;
  IF S10G19 IN (.) AND S10G23 IN (.) THEN DO;
    N16B1=7;
    DO OVER NOTE16B12;
      IF NOTE16B12 IN (2) THEN NOTE16B12=.;
    END;
  END;
ELSE IF S10G19 IN (3,4,..) AND S10G23 IN (3,4) THEN DO;
  N16B1=8;
  S10G18=2;
  DO OVER NOTE16B1;
    IF NOTE16B1 = . THEN NOTE16B1=.N;
    ELSE NOTE16B1=.C;
  END;
  DO OVER NOTE16B12;
    IF NOTE16B12 IN (.,2) THEN NOTE16B12=.N;
    ELSE NOTE16B12=.C;
  END;
END;
ELSE IF S10G19 IN (3,4) AND S10G23 IN (.) THEN DO;
  N16B1=9;
  S10G18=2;
  DO OVER NOTE16B1;
    IF NOTE16B1 = . THEN NOTE16B1=.N;
    ELSE NOTE16B1=.C;
  END;
  DO OVER NOTE16B12;
    IF NOTE16B12 IN (.,2) THEN NOTE16B12=.N;
    ELSE NOTE16B12=.C;
  END;
END;
END;
END;
END;

```

```

/** Note 16B2 -- S10G28, S10G29A-S10G30
    : current health care coverage **/

```

```

ARRAY NOTE16B2 S10G29A--S10G29K
    ;

```

```

N16B2NMISS=0;

```

```

DO OVER NOTE16B2;
  IF NOTE16B2 IN (1) THEN N16B2NMISS+1;
END;

```

```

IF S10G28 IN (.N, .C) THEN N16B2=1;
ELSE IF S10G28 IN (3) THEN DO;
  N16B2=2;
END;
ELSE IF S10G28 IN (1) THEN DO;
  N16B2=3;
  DO OVER NOTE16B2;

```

```

        IF NOTE16B2 IN (.,2) THEN NOTE16B2=.N;
        ELSE NOTE16B2=.C;
    END;

    IF S10G30 IN (.) THEN S10G30=.N;
    ELSE S10G30=.C;
END;
ELSE IF S10G28 IN (2,.D) THEN DO;
    N16B2=4;
    DO OVER NOTE16B2;
        IF NOTE16B2 IN (.,2) THEN NOTE16B2=.N;
        ELSE NOTE16B2=.C;
    END;
END;
ELSE IF S10G28=. THEN DO;
    IF N16B2NMISS > 0 THEN DO;
        N16B2=5;
        S10G28=3;
    END;
    ELSE IF S10G30 IN (1,2,3,.D) THEN DO;
        N16B2=6;
        S10G28=.D;
        DO OVER NOTE16B2;
            IF NOTE16B2 IN (.,2) THEN NOTE16B2=.N;
            ELSE NOTE16B2=.C;
        END;
    END;
    ELSE DO;
        N16B2=7;
        DO OVER NOTE16B2;
            IF NOTE16B2 IN (2) THEN NOTE16B2=.;
        END;
    END;
END;
END;

```

```

DROP N16B2NMISS;

```

```

/** Note 16B3 -- S10G32, S10G33-S10G34
    : Personal Dr **/

```

```

IF S10G32 IN (.N,.C) AND S10G33 IN (.N,.C) AND S10G34 IN (.N,.C) THEN N16B3=1;
ELSE IF S10G32 IN (1,2,.) AND S10G33=.N AND S10G34 IN (.N,.) THEN DO;
    N16B3=2;
    S10G32=.N;
    S10G33=.C;
    IF S10G34=. THEN S10G34=.N;
    ELSE S10G34=.C;
END;
ELSE IF S10G32 IN (1,2,.) AND S10G33 IN (.D,.) AND S10G34=.N THEN DO;
    N16B3=3;
    S10G32=.N;
    IF S10G33=. THEN S10G33=.N;
    ELSE S10G33=.C;
    S10G34=.C;
END;
ELSE IF S10G32=1 AND S10G33 IN (1,2) THEN DO;
    N16B3=4;
    IF S10G34=.N THEN S10G34=.;
END;
ELSE IF S10G32=1 AND S10G33 IN (.D,.N,.) AND S10G34 IN (1,2,3) THEN DO;
    N16B3=5;
    IF S10G33=.N THEN S10G33=.;
END;
ELSE IF S10G32=1 AND S10G33 IN (.D,.) AND S10G34=. THEN N16B3=6;
ELSE IF S10G32=2 AND S10G33 IN (1,2) THEN DO;
    N16B3=7;
    S10G33=.C;
    IF S10G34=.N THEN S10G34=.;
END;
ELSE IF S10G32=2 AND S10G33 IN (.D,.N,.) AND S10G34 IN (1,2,3) THEN DO;
    N16B3=8;

```

```

        IF S10G33=. THEN S10G33=.N;
        ELSE S10G33=.C;
    END;
ELSE IF S10G32=2 AND S10G33 IN (.D,.) AND S10G34=. THEN DO;
    N16B3=9;
    IF S10G33=. THEN S10G33=.N;
    ELSE S10G33=.C;
END;
ELSE IF S10G32=.N THEN DO;
    N16B3=10;
    IF S10G33=. THEN S10G33=.N;
    ELSE S10G33=.C;
    IF S10G34=. THEN S10G34=.N;
    ELSE S10G34=.C;
END;
ELSE IF S10G32=. AND S10G33 IN (1,2,.D,.) AND S10G34 IN (1,2,3,.) THEN N16B3=11;
ELSE IF S10G32=. AND S10G33 IN (1,2) AND S10G34=.N THEN DO;
    N16B3=12;
    S10G32=.N;
    S10G33=.C;
    S10G34=.C;
END;
ELSE IF S10G32=. AND S10G33=.N AND S10G34 IN (1,2,3) THEN DO;
    N16B3=13;
    S10G32=.N;
    S10G33=.C;
    S10G34=.C;
END;

/** Note 16B4 -- S10G40, S10G41-S10G43
    : TRICARE Reserve Select **/

ARRAY NOTE16B4 S10G41-S10G43;

N16B4MARK=0;

IF S10G41=1 THEN N16B4MARK+1;
IF S10G42=1 THEN N16B4MARK+1;
IF S10G43 IN (1,2) THEN N16B4MARK+1;

IF S10G40 IN (.N,.C) THEN N16B4=1;
ELSE IF S10G40=1 THEN N16B4=2;
ELSE IF S10G40 IN (2,.) AND N16B4MARK>0 THEN DO;
    N16B4=3;
    S10G40=1;
END;
ELSE IF S10G40=2 AND N16B4MARK=0 THEN DO;
    N16B4=4;
    DO OVER NOTE16B4;
        IF NOTE16B4=. THEN NOTE16B4=.N;
        ELSE NOTE16B4=.C;
    END;
END;
ELSE IF S10G40=. AND N16B4MARK=0 THEN N16B4=5;

DROP N16B4MARK;

/** Note 17 -- smoking: H10051, H10052-H10055 **/

ARRAY NOTE17 H10053 H10054 H10055;

IF H10051=1 and H10052 IN (3,4) THEN DO; /* still smoke */
    N17=1;
END;
ELSE IF H10051=1 AND H10052 IN (2,.D) THEN DO; /* quit */
    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
        ELSE NOTE17=.C;
    END;
    N17=2;
END;
ELSE IF H10051=1 AND H10052 = . THEN DO; /* don't know */

```

```

N17=3;
END;
ELSE IF H10051 IN (2,.D,.) AND H10052 IN (3,4) THEN DO;
H10051=1;

N17=4;
END;
ELSE IF H10051 IN (2,.D) AND H10052 IN (2,.D, .) THEN DO; /*never smoke*/
/* JMA March 25 2004,
Updated because H10054 and H10055 have been added to the
skip pattern */

IF H10052 NE . THEN H10052 =.C;
ELSE H10052=.N;

DO OVER NOTE17;
IF NOTE17=. THEN NOTE17=.N;
ELSE NOTE17=.C;
END;

N17=5;
END;
ELSE IF H10051 IN ( .) THEN DO;
IF (H10052 IN (2,.) AND
(H10053 IN (2,3,4,5) OR H10054 IN (2,3,4,5) OR H10055 IN (2,3,4,5)))
THEN DO;
/* JMA March 25 2004,
Updated because H10054 and H10055 have been added to the
skip pattern */

H10051=1;
N17=6;
END;
ELSE IF H10052 IN (2,.) THEN DO; /*MRE/blank*/
N17=7;

END;
ELSE IF H10052=.D THEN DO; /*MRE/blank*/
/* JMA March 25 2004,
Updated because H10054 and H10055 have been added to the
skip pattern */

DO OVER NOTE17;
IF NOTE17=. THEN NOTE17=.N;
ELSE NOTE17=.C;
END;

N17=8;
END;
END;

/** Note 18 -- advice from doctor on smoking: H10053-H10055 **/

IF H10053 EQ .N THEN DO; /* jma Sep 19 2006 */
IF H10054 IN (.,.N) THEN H10054 = .N;
ELSE H10054=.C;
IF H10055 IN (.,.N) THEN H10055 = .N;
ELSE H10055=.C;
N18=1;
END;
ELSE IF H10053 EQ .C THEN DO; /* jma FEB 19 2008 */
N18=2;
END;
ELSE IF H10053 EQ 1 AND (H10054 =.N AND H10055=.N) THEN DO; /* jma May 10 2007 */
H10054 = 1;
H10055 = 1;
N18=3;
END;
ELSE IF H10053 EQ 1 AND (H10054 =.N) THEN DO; /* jma May 10 2007 */
H10054 = 1;
N18=4;
END;
ELSE IF H10053 EQ 1 AND (H10055=.N) THEN DO; /* jma May 10 2007 */

```

```

        H10055 = 1;
        N18=5;
    END;
    ELSE IF H10053 IN (2,3,4,5,.) AND (H10054 =.N AND H10055= .N) THEN DO; /* jma May 10 2007 */
        H10054 = .;
        H10055 = .;
        N18=6;
    END;
    ELSE IF H10053 IN (2,3,4,5,.) AND (H10054 =.N) THEN DO; /* jma May 10 2007 */
        H10054 = .;
        N18=7;
    END;
    ELSE IF H10053 IN (2,3,4,5,.) AND (H10055= .N) THEN DO; /* jma May 10 2007 */
        H10055 = .;
        N18=8;
    END;
    ELSE IF H10053 GE 1 AND (H10054 > H10053 AND H10055 > H10053) THEN DO; /* jma May 10 2007 */
        H10054 = H10053;
        H10055 = H10053;
        N18=9;
    END;
    ELSE IF H10053 GE 1 AND (H10054 > H10053) THEN DO; /* jma May 10 2007 */
        H10054 = H10053;
        N18=10;
    END;
    ELSE IF H10053 GE 1 AND (H10055 > H10053) THEN DO; /* jma May 10 2007 */
        H10055 = H10053;
        N18=11;
    END;
    ELSE IF H10053 GE 1 AND ((H10054 <= H10053 or H10054 = . ) AND (H10055 <= H10053 or
H10055=.)
    THEN DO; /* jma Feb 19 2007 */
        N18=12;
    END;
    ELSE IF (H10053=. AND H10054 IN (1,2,3,4,5,.) AND H10055 IN (1,2,3,4,5,.)
    THEN DO; /* jma Feb 19 2007 */
        N18=13;
    END;
    END;

```

```

/** Note 19 - gender H10056, SEX, H10057--H10062,
        XSEXA */

```

```

/* 1/21/98 use SRSEX & responses to gender specific questions
    if there is discrepancy between SRSEX and SEX */
/* set imputed FMALE based on gender specific questions */

```

```

ARRAY fmaleval H10057 H10058 H10059 H10060 H10061 H10062
        ;

```

```

cntfemale=0;
DO OVER fmaleval;          /* mammogram/pap smear/PREGNANT*/
    IF fmaleval>0 THEN cntfemale=cntfemale+1;
END;

```

```

IF cntfemale>0 THEN FMALE=1;
ELSE FMALE = 0;

```

```

IF H10056=. THEN DO;
    IF (SEX='F' AND FMALE) THEN DO;
        N19a=1;
        XSEXA=2;
    END;
    ELSE IF (SEX='F' AND FMALE=0) THEN DO;
        N19a=2;
        XSEXA=2;
    END;
    ELSE IF (SEX='M' AND FMALE) THEN DO;
        N19a=3;
        XSEXA=1;
    END;
    ELSE IF (SEX='M' AND FMALE=0) THEN DO;

```

```

        N19a=4;
        XSEXA=1;
    END;
    ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
        N19a=5;
        XSEXA=2;
    END;
    ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
        N19a=6;
        XSEXA=.;
    END;
    ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
        N19a=7;
        XSEXA=.;
    END;
END;
ELSE IF (H10056=1) THEN DO;
    IF FMALE=0 THEN DO;
        N19a=8;
        XSEXA=1;
    END;
    ELSE IF FMALE THEN DO;
        IF SEX='F' THEN DO;
            N19a=9;
            XSEXA=2;
        END;
        ELSE DO;
            N19a=10;
            XSEXA=1;
        END;
    END;
END;
ELSE IF (H10056=2) THEN DO;
    IF FMALE THEN DO;
        N19a=11;
        XSEXA=2;
    END;
    ELSE IF FMALE=0 THEN DO;
        IF SEX='M' THEN DO;
            N19a=12;
            XSEXA=1;
        END;
        ELSE DO;
            N19a=13;
            XSEXA=2;
        END;
    END;
END;
END;

/* Note 19b - gender vs mammogram/paps/pregnancy */

ARRAY NOTE19b H10057 H10058 H10059 H10060 H10061 H10062
;
IF XSEXA=1 THEN DO; /* male */
    IF FMALE=0 THEN DO;
        N19b=1;
        DO OVER NOTE19b;
            NOTE19b=.N;
        END;
    END; /* valid skip */
    ELSE IF FMALE=1 THEN DO;
        N19b=2;
        DO OVER NOTE19b;
            IF NOTE19b=. THEN NOTE19b = .N;
            ELSE NOTE19b=.C;
        END;
    END; /* inconsistent response */
END;
ELSE IF XSEXA=2 THEN N19b=3; /* female */
ELSE IF XSEXA=. THEN DO; /* missing sex */
    N19b=4;
    DO OVER NOTE19b;
        NOTE19b=.;
    END;
END;

```



```
END;  
END;
```

```
DROP FMALE CNTFMALE;
```

```
/* Note 20- breast exam for female 40 or over */
```

```
IF XSEXA=1 THEN DO; /* male */  
  IF (H10058=.C OR H10058=.N) AND (H10059=.C OR H10059=.N)  
  THEN N20 = 1;  
END;  
ELSE IF XSEXA=2 THEN DO;  
  IF H10058=2 THEN N20=2; /* female 40 or over */  
  ELSE IF H10058=1 THEN DO; /* female < 40 */  
    IF H10059 NE . THEN H10059=.C;  
    ELSE H10059=.N;  
    N20=3;  
  END;  
  ELSE IF H10058=. THEN DO;  
    IF H10059 NE . THEN DO;  
      H10058=2;  
      N20=4;  
    END;  
    ELSE IF H10059=. THEN DO;  
      IF AGE<40 THEN DO;  
        H10058 = 1;  
        H10059=.N;  
        N20=5;  
      END;  
      ELSE IF AGE >= 40 THEN DO;  
        H10058=2;  
        N20=6;  
      END;  
      ELSE IF AGE=. THEN N20=7;  
    END;  
  END;  
END;  
ELSE IF XSEXA=. THEN N20=8;
```

```
/* Note 21 - gender vs Pregnancy */
```

```
IF XSEXA=1 THEN N21=1; /* male */  
ELSE IF XSEXA=2 THEN DO; /* female */  
  IF H10060=1 THEN DO; /* pregnant */  
    IF H10061=1 THEN DO;  
      N21=2;  
      IF H10062=. THEN H10062 = .N;  
      ELSE H10062=.C;  
    END;  
    ELSE IF H10061=2 AND H10062 IN (2) THEN DO;  
      N21=3;  
      H10062=.;  
    END;  
    ELSE IF H10061=2 AND H10062 IN (4,3,1,..) THEN DO;  
      N21=4;  
    END;  
    ELSE IF H10061 IN (3,..) THEN N21=5;  
  END;  
ELSE IF H10060=2 THEN DO;  
  IF H10061=. THEN H10061 = .N;  
  ELSE H10061=.C;  
  N21=6;  
END;  
ELSE IF H10060=3 THEN DO;  
  N21=7;  
  IF H10061=. THEN H10061 = .N;  
  ELSE H10061=.C;  
  IF H10062=. THEN H10062=.N;  
  ELSE H10062=.C;
```

```

END;
ELSE IF H10060 IN (.) THEN DO;
  IF H10061=1 THEN DO;
    N21=8;
    H10060=1;
    IF H10062=. THEN H10062 = .N;
    ELSE H10062=.C;
  END;
  ELSE IF H10061=2 AND H10062 IN (2) THEN DO;
    N21=9;
    H10060=1;
    H10062=.;
  END;
  ELSE IF H10061=2 AND H10062 IN (4,3,1,.) THEN DO;
    H10060=1;
    N21=10;
  END;
  ELSE IF H10061=3 THEN DO;
    H10060=1;
    N21=11;
  END;
  ELSE IF H10061=. THEN DO;
    N21=12;
  END;
END;
END;
ELSE IF XSEXA=. AND H10060 IN (.) THEN N21=13;

DROP AGE SEX;

/** Note 22 -- H10065, H10066: seen doctor 3 or more times for same condition **/
IF H10065=1 THEN N22=1;
ELSE IF H10065 IN (2,.) AND H10066 IN (1,2) THEN DO;
  H10065=1;
  N22=2;
END;
ELSE IF H10065=2 AND H10066 IN (.) THEN DO;
  H10066=.N;
  N22=3;
END;
ELSE IF H10065=. AND H10066=. THEN N22=4;

/** Note 23 -- H10067, H10068: need or take medicine prescribed by a doctor **/
IF H10067=1 THEN N23=1;
ELSE IF H10067 IN (2,.) AND H10068 IN (1,2) THEN DO;
  H10067=1;
  N23=2;
END;
ELSE IF H10067=2 AND H10068 IN (.) THEN DO;
  H10068=.N;
  N23=3;
END;
ELSE IF H10067=. AND H10068=. THEN N23=4;

/** Note 24 -- H10071, H10071A-H10071E: Hispanic or Latino origin or descent **/
/* JMA
***Multiple responses were given to this question so H10071 is being created
***from the multiple responses.;
*/

IF H10071B=1 THEN DO;
  N24=1;
  H10071=2;
END;
ELSE IF H10071E=1 THEN DO;

```

```

        N24=2;
        H10071=5;
    END;
    ELSE IF H10071C=1 THEN DO;
        N24=3;
        H10071=3;
    END;
    ELSE IF H10071D=1 THEN DO;
        N24=4;
        H10071=4;
    END;
    ELSE IF H10071A=1 THEN DO;
        N24=5;
        H10071=1;
    END;
    ELSE IF H10071A IN (2,.) AND H10071B IN (2,.) AND H10071C IN (2,.) AND
        H10071D IN (2,.) AND H10071E IN (2,.) THEN DO;
        N24=6;
        H10071=.;
    END;
END;

```

NOSURVEY:

/* missing values */

```

    ARRAY MISS MISS_9 MISS_8 MISS_7 MISS_6 MISS_5 MISS_4 MISS_1 ;
    MISS_TOT=0;
    DO OVER MISS;
        MISS = 0;
    END;
    ARRAY MISSARAY &VARLIST2.;

    DO OVER MISSARAY;
        IF (MISSARAY EQ -9 ) THEN MISS_9 = MISS_9 + 1;
        ELSE IF (MISSARAY EQ -8) THEN MISS_8 = MISS_8 + 1;
        ELSE IF (MISSARAY EQ -7) THEN MISS_7 = MISS_7 + 1;
        ELSE IF (MISSARAY EQ -6) THEN MISS_6 = MISS_6 + 1;
        ELSE IF (MISSARAY EQ -5) THEN MISS_5 = MISS_5 + 1;
        ELSE IF (MISSARAY EQ -4) THEN MISS_4 = MISS_4 + 1;
        ELSE IF (MISSARAY EQ -1) THEN MISS_1 = MISS_1 + 1;
    END;
    DO OVER MISS;
        MISS_TOT=MISS_TOT + MISS;
    END;

```

*****;

OUTPUT;

RUN;

```

proc contents data=out.cschm10q;
run;

```

**F.2.B Q1FY2010\PROGRAMS\CODINGScheme\CSCHM10Q.FMT - INCLUDE FILE FOR CODING SCHEME FOR QUARTER 1
FY2010.**

/* Formats for original answers to survey questions,
after variables have been recoded */

```

FORMAT H10001  H10001_O YN.

H10003  H10003_O HPLAN1_.
H10004  H10004_O HPTIME.

H10005  H10005_O PLACE.

H10006 H10006_O  H10009 H10009_O  H10019 H10019_O
      YN.

H10007  H10007_O OFTEN2_.
H10008  H10008_O TIME1_.

H10010  H10010_O OFTEN3_.
H10011  H10011_O TIME2_.
H10012  H10012_O OFTEN4_.

H10013  H10013_O OFTEN4_.
H10014  H10014_O OFTEN8_.
H10015  H10015_O YN.
H10016  H10016_O YNDEF.
H10017  H10017_O YNDEF.
H10018  H10018_O RATE3_.

H10020  H10020_O OFTEN10_.

H10021-H10024  H10021_O--H10024_O OFTEN5_.

H10025  H10025_O YN.
H10026  H10026_O OFTEN8_.
H10027  H10027_O RATE6_.

S10009  S10009_O YN.
S10010  S10010_O PROB1_.

H10028  H10028_O YN.
H10029  H10029_O OFTEN9_.
H10030  H10030_O SPCLST.
H10031  H10031_O RATE2_.

S10B01 S10B01_O MNTLHLTH.
S10B02 S10B02_O YN.
S10B03 S10B03_O PROB1_.
S10B04 S10B04_O RATE5_.

H10032  H10032_O YN.
H10033  H10033_O OFTEN11_.
H10034B H10034BO YN.
H10034  H10034_O OFTEN12_.
H10035  H10035_O YN.
H10036  H10036_O OFTEN13_.
H10037  H10037_O YN.
H10038  H10038_O OFTEN14_.
H10039  H10039_O YN.
H10040  H10040_O OFTEN15_.
H10041  H10041_O OFTEN15_.
H10042  H10042_O YN.
H10043  H10043_O OFTEN16_.
H10044  H10044_O YNDNK.
H10045  H10045_O OFTEN6_.
H10046  H10046_O OFTEN6_.
H10047  H10047_O RATE4_.

S10G18  S10G18_O YN.
S10G19  S10G19_O RSRV1_.
S10G23  S10G23_O RSRV5_.

```

S10G27 S10G27_O RSRV8_.
S10G28 S10G28_O RSRV9_.
S10G30 S10G30_O RSRV10_.
S10G31 S10G31_O RSRV11_.
S10G32 S10G32_O
S10G33 S10G33_O RSRV12_.
S10G34 S10G34_O RSRV13_.
S10G35 S10G35_O RSRV13_.
S10G40 S10G40_O YN.
S10G41 S10G41_O RSRV15_.
S10G42 S10G42_O YN.
S10G43 S10G43_O RSRV17_.

H10048 H10048_O TIME5_.
H10049 H10049_O YNBP_.

H10050 H10050_O TIME7_.
H10051 H10051_O YNDNK.
H10052 H10052_O TIME8_.
H10053 H10053_O OFTEN7_.
H10054 H10054_O OFTEN7_.
H10055 H10055_O OFTEN7_.

S10D03 S10D03_O YNDNK.
S10D02 S10D02_O TIME15_.

H10056 H10056_O SEX.
H10057 H10057_O TIME11_.

H10058 H10058_O H10064 H10064_O
YN.

H10059 H10059_O TIME12_.
H10060 H10060_O YNPREG.
H10061 H10061_O PREG1_.
H10062 H10062_O PREG2_.
H10063 H10063_O HEALTH.

H10065 H10065_O YN.
H10066 H10066_O YN.
H10067 H10067_O YN.

H10068 H10068_O YN.

S10B22 S10B22_O S09B22_.
S10B23 S10B23_O YN.
S10B24 S10B24_O YN.
S10B25 S10B25_O YN.
S10B26 S10B26_O YN.

H10069F H10069FO
H10069I H10069IO
H10070 H10070_O
TIME14_.

SREDA SREDA_O EDUC.

H10071 HISP.

SRAGE SRAGE_O AGEGRP.

H10072 H10072_O MEDA.
H10073 H10073_O MEDB.
H10074 H10074_O MEDSUPP.

S10011 S10011_O AGREE2_.
S10014 S10014_O SATISFY.

MISS_1 MISS_4-MISS_9 MISS_TOT 4.

;

LABEL H10001_0='Are you the person listed on envelope'
 H10001 ='Are you the person listed on envelope'
 H10002AO='Health plan(s) covered: TRICARE Prime'
 H10002A ='Health plan(s) covered: TRICARE Prime'
 H10002CO='Health plan(s) covered: TRICARE Ext/Stnd'
 H10002C ='Health plan(s) covered: TRICARE Ext/Stnd'
 H10002NO='Health plan(s) covered: TRICARE Plus'
 H10002N ='Health plan(s) covered: TRICARE Plus'
 H1000200='Health plan(s) covered: TRICARE For Life'
 H10002O ='Health plan(s) covered: TRICARE For Life'
 H10002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
 H10002P ='Health plan(s) covered: TRICARE Supplmntl Ins'
 H10002QO='Health plan(s) covered: TRICARE Reserve Select'
 H10002Q ='Health plan(s) covered: TRICARE Reserve Select'
 H10002FO='Health plan(s) covered: Medicare'
 H10002F ='Health plan(s) covered: Medicare'
 H10002GO='Health plan(s) covered: FEHBP'
 H10002G ='Health plan(s) covered: FEHBP'
 H10002HO='Health plan(s) covered: Medicaid'
 H10002H ='Health plan(s) covered: Medicaid'
 H10002IO='Health plan(s) covered: Civilian HMO'
 H10002I ='Health plan(s) covered: Civilian HMO'
 H10002JO='Health plan(s) covered: Other civilian'
 H10002J ='Health plan(s) covered: Other civilian'
 H10002KO='Health plan(s) covered: USFHP'
 H10002K ='Health plan(s) covered: USFHP'
 H10002MO='Health plan(s) covered: Veterans'
 H10002M ='Health plan(s) covered: Veterans'
 H10002RO='Health plan(s) covered: Gov Hlth ins-other cntry'
 H10002R ='Health plan(s) covered: Gov Hlth ins-other cntry'
 H10002LO='Health plan(s) covered: Not sure'
 H10002L ='Health plan(s) covered: Not sure'
 H10003_0='Which health plan did you use most'
 H10003 ='Which health plan did you use most'
 H10004_0='Yrs in a row with health plan'
 H10004 ='Yrs in a row with health plan'
 H10005_0='In lst yr:fcilty use most for Health care'
 H10005 ='In lst yr:fcilty use most for Health care'
 H10006_0='In lst yr:ill/injry/cond care right away'
 H10006 ='In lst yr:ill/injry/cond care right away'
 H10007_0='In lst yr:get urgnt care as soon as wntd'
 H10007 ='In lst yr:get urgnt care as soon as wntd'
 H10008_0='In lst yr:wait btwn try get care,see prv'
 H10008 ='In lst yr:wait btwn try get care,see prv'
 H10009_0='In lst yr:make appts non-urgnt hlth care'
 H10009 ='In lst yr:make appts non-urgnt hlth care'
 H10010_0='In lst yr:non-urg hlth cre appt whn wntd'
 H10010 ='In lst yr:non-urg hlth cre appt whn wntd'
 H10011_0='In lst yr:days btwn appt & see prvder'
 H10011 ='In lst yr:days btwn appt & see prvder'
 H10012_0='In lst yr:goto emrgncy rm for own care'
 H10012 ='In lst yr:goto emrgncy rm for own care'
 H10013_0='In lst yr:goto Dr office/clinic for care'
 H10013 ='In lst yr:goto Dr office/clinic for care'
 H10014 ='Lst yr: How often talk to doctor about illness prvntn'
 H10014_0='Lst yr: How often talk to doctor about illness prvntn'
 H10015 ='Lst yr: Did doctor tell you more than 1 choice for trtmnt'
 H10015_0='Lst yr: Did doctor tell you more than 1 choice for trtmnt'
 H10016 ='Lst yr: Did talk to doctor about pros/cons of trtmnt'
 H10016_0='Lst yr: Did talk to doctor about pros/cons of trtmnt'
 H10017 ='Lst yr: Did doctor ask which trtmnt option best for you'
 H10017_0='Lst yr: Did doctor ask which trtmnt option best for you'
 H10018_0='Rating of all health care in lst yr'
 H10018 ='Rating of all health care in lst yr'
 H10019_0='Have one person think of as personal Dr'
 H10019 ='Have one person think of as personal Dr'
 H10020 ='Lst yr: How often visit prsnl doctor for care for yourself'
 H10020_0='Lst yr: How often visit prsnl doctor for care for yourself'
 H10021_0='In lst yr:how oftn Drs listen to you'
 H10021 ='In lst yr:how oftn Drs listen to you'
 H10022_0='In lst yr:how oftn Drs explain things'
 H10022 ='In lst yr:how oftn Drs explain things'
 H10023_0='In lst yr:how oftn Drs show respect'
 H10023 ='In lst yr:how oftn Drs show respect'

H10024_O='In lst yr:how oftn Drs spend enough time'
H10024 ='In lst yr:how oftn Drs spend enough time'
H10025 ='Lst yr: Did get care from doctor other than prsnl doctor'
H10025_O='Lst yr: Did get care from doctor other than prsnl doctor'
H10026 ='Lst yr: How often prsnl doctor seemed infrmd of care from other
doctors'
H10026_O='Lst yr: How often prsnl doctor seemed infrmd of care from other
doctors'
H10027_O='Rating of your personal Dr'
H10027 ='Rating of your personal Dr'
H10028 ='Lst yr: Did make any appointments to see spclst'
H10028_O='Lst yr: Did make any appointments to see spclst'
H10029 ='Lst yr: How often easy to get appointments with spclsts'
H10029_O='Lst yr: How often easy to get appointments with spclsts'
H10030 ='Lst yr: How many spclsts seen'
H10030_O='Lst yr: How many spclsts seen'
H10031_O='Rating of specialist seen in lst yr'
H10031 ='Rating of specialist seen in lst yr'
H10032 ='Lst yr: Did try to get care, test, or trtmnt through health plan'
H10032_O='Lst yr: Did try to get care, test, or trtmnt through health plan'
H10033 ='Lst yr: How often easy to get care, test, or trtmnt'
H10033_O='Lst yr: How often easy to get care, test, or trtmnt'
H10034B='Lst yr: Did look for info from written material/Internet'
H10034B_O='Lst yr: Did look for info from written material/Internet'
H10034 ='Lst yr: How often written material/Internet provide needed info'
H10034_O='Lst yr: How often written material/Internet provide needed info'
H10035 ='Lst yr: Did look for info from health plan on cost of
service/equipment'
H10035_O='Lst yr: Did look for info from health plan on cost of
service/equipment'
H10036 ='Lst yr: How often able to find out cost of service/equipment'
H10036_O='Lst yr: How often able to find out cost of service/equipment'
H10037 ='Lst yr: Did look for info from health plan on cost of prescription
meds'
H10037_O='Lst yr: Did look for info from health plan on cost of prescription
meds'
H10038 ='Lst yr: How often able to find out cost of prescription meds'
H10038_O='Lst yr: How often able to find out cost of prescription meds'
H10039 ='Lst yr: Did try to get info/help from health plan's cstmr service'
H10039_O='Lst yr: Did try to get info/help from health plan's cstmr service'
H10040 ='Lst yr: How often did cstmr service give needed info/help'
H10040_O='Lst yr: How often did cstmr service give needed info/help'
H10041 ='Lst yr: How often did cstmr service treat with courtesy/respect'
H10041_O='Lst yr: How often did cstmr service treat with courtesy/respect'
H10042 ='Lst yr: Did health plan give any forms to fill out'
H10042_O='Lst yr: Did health plan give any forms to fill out'
H10043 ='Lst yr: How often were forms easy to fill out'
H10043_O='Lst yr: How often were forms easy to fill out'
H10044_O='In lst yr:send in any claims'
H10044 ='In lst yr:send in any claims'
H10045 ='Lst yr: How often did health plan handle claims quickly'
H10045_O='Lst yr: How often did health plan handle claims quickly'
H10046_O='In lst yr:how oftn handle claims correctly'
H10046 ='In lst yr:how oftn handle claims correctly'
H10047 ='Rating of all experience with hlth plan'
H10047_O='Rating of all experience with hlth plan'
H10048_O='Blood pressure: when lst reading'
H10048 ='Blood pressure: when lst reading'
H10049_O='Blood pressure: know if too high or not'
H10049 ='Blood pressure: know if too high or not'
H10050_O='When did you lst have a flu shot'
H10050 ='When did you lst have a flu shot'
H10051 ='Smoked at least 100 cigarettes in life'
H10051_O='Smoked at least 100 cigarettes in life'
H10052 ='Smoke everyday, some days or not at all'
H10052_O='Smoke everyday, some days or not at all'
H10053_O='Lst yr: # visits advised to quit smoking'
H10053 ='Lst yr: # visits advised to quit smoking'
H10054 ='# visits recom medic assist quit smoking'
H10054_O='# visits recom medic assist quit smoking'
H10055 ='# vist discu meth/strag asst quit smokng'
H10055_O='# vist discu meth/strag asst quit smokng'
H10056_O='Are you male or female'
H10056 ='Are you male or female'

H10057_O='Lst have a Pap smear test'
H10057 ='Lst have a Pap smear test'
H10058_O='Are you under age 40'
H10058 ='Are you under age 40'
H10059_O='Lst time: breasts checked mammography'
H10059 ='Lst time: breasts checked mammography'
H10060_O='Been pregnant in lst yr or pregnant now'
H10060 ='Been pregnant in lst yr or pregnant now'
H10061_O='In what trimester is your pregnancy'
H10061 ='In what trimester is your pregnancy'
H10062_O='Trimester first received prenatal care'
H10062 ='Trimester first received prenatal care'
H10063_O='In gnrl, how would you rate ovrall hlth'
H10063 ='In gnrl, how would you rate ovrall hlth'
H10064_O='Impairment/Hlth prblm limit activities'
H10064 ='Impairment/Hlth prblm limit activities'
H10065 ='Lst yr: Have seen doctor 3 or more times for same condition'
H10065_O='Lst yr: Have seen doctor 3 or more times for same condition'
H10066 ='Has condition lasted for at least 3 months'
H10066_O='Has condition lasted for at least 3 months'
H10067 ='Need to take medicine prescribed by a doctor'
H10067_O='Need to take medicine prescribed by a doctor'
H10068 ='Medicine to treat condition that has lasted for at least 3 months'
H10068_O='Medicine to treat condition that has lasted for at least 3 months'
H10069FO='Height without shoes (feet)'
H10069F='Height without shoes (feet)'
H10069IO='Height without shoes (inches)'
H10069I='Height without shoes (inches)'
H10070_O='Weight without shoes'
H10070 ='Weight without shoes'
SREDA_O='Highest grade completed'
SREDA ='Highest grade completed'
H10071 ='Are you Spanish/Hispanic/Latino'
H10071AO='Not Spanish/Hispanic/Latino'
H10071A='Not Spanish/Hispanic/Latino'
H10071BO='Mexican, Mexican American, Chicano'
H10071B='Mexican, Mexican American, Chicano'
H10071CO='Puerto Rican'
H10071C='Puerto Rican'
H10071DO='Cuban'
H10071D='Cuban'
H10071EO='Other Spanish, Hispanic, or Latino'
H10071E='Other Spanish, Hispanic, or Latino'
SRRACEAO='Race: White'
SRRACEA='Race: White'
SRRACEBO='Race: Black or African American'
SRRACEB='Race: Black or African American'
SRRACECO='Race: American Indian or Alaska Native'
SRRACEC='Race: American Indian or Alaska Native'
SRRACEDO='Race: Asian'
SRRACED='Race: Asian'
SRRACEEO='Race: Native Hawaiian/other Pacific Isl.'
SRRACEE='Race: Native Hawaiian/other Pacific Isl.'
SRAGE_O='What is your age now'
SRAGE ='What is your age now'
H10072 ='Currently Covered Medicare Part A'
H10072_O='Currently Covered Medicare Part A'
H10073 ='Currently Covered Medicare Part B'
H10073_O='Currently Covered Medicare Part B'
H10074 ='Currently Covered Medicare Supplemental'
H10074_O='Currently Covered Medicare Supplemental'

S10009_O='Same prsnl doctor/nurse before this hlth plan'
S10009 ='Same prsnl doctor/nurse before this hlth plan'
S10010_O='Prblm getting prsnl doctor/nurse you are happy with'
S10010 ='Prblm getting prsnl doctor/nurse you are happy with'

S10B01_O='Self rate of overall mental/emotional health'
S10B01 ='Self rate of overall mental/emotional health'
S10B02_O='Lst yr: Needed treatmnt/cnslng-prsnl prob'
S10B02 ='Lst yr: Needed treatmnt/cnslng-prsnl prob'
S10B03_O='Lst yr: Prblm gttng needed treatmnt/cnslng'
S10B03 ='Lst yr: Prblm gttng needed treatmnt/cnslng'

S10B04_O='Lst yr: Rate of treatmnt/cnslng received'
S10B04 ='Lst yr: Rate of treatmnt/cnslng received'

S10B22_O='You or spouse been deployed to combat in past two yrs'
S10B22 ='You or spouse been deployed to combat in past two yrs'
S10B23_O='Past month: nightmares/thoughts you did not want'
S10B23 ='Past month: nightmares/thoughts you did not want'
S10B24_O='Past month: tried not to think about or be reminded'
S10B24 ='Past month: tried not to think about or be reminded'
S10B25_O='Past month: constantly on guard, watchful, or startled'
S10B25 ='Past month: constantly on guard, watchful, or startled'
S10B26_O='Past month: felt numb or detached from others'
S10B26 ='Past month: felt numb or detached from others'

S10D02_O='How often currently use smokeless tobacco products'
S10D02 ='How often currently use smokeless tobacco products'
S10D03_O='Do you use tobacco products other than cigarettes'
S10D03 ='Do you use tobacco products other than cigarettes'

S10G18 ='Self/Spouse/Parent rsvrst actv duty >30 cnscutv dys'
S10G18_O='Self/Spouse/Parent rsvrst actv duty >30 cnscutv dys'
S10G19 ='Resv actvatd-cntngncy oprtns- >30 cnscutv dys'
S10G19_O='Resv actvatd-cntngncy oprtns- >30 cnscutv dys'
S10G23 ='Sps/prnt resv actvatd-cntngncy oprtns- >30 cnscutv dys'
S10G23_O='Sps/prnt resv actvatd-cntngncy oprtns- >30 cnscutv dys'
S10G27 ='Cvln hlth ins:Bfr bcmng elgbl for TRICARE'
S10G27_O='Cvln hlth ins:Bfr bcmng elgbl for TRICARE'
S10G28 ='Current health care coverage'
S10G28_O='Current health care coverage'
S10G29A ='Dnt Use TRICARE:grtr choice of drs /w civ plan'
S10G29A_O='Dnt Use TRICARE:grtr choice of drs /w civ plan'
S10G29B ='Dnt Use TRICARE:btr cstmr srvc /w civ plan'
S10G29B_O='Dnt Use TRICARE:btr cstmr srvc /w civ plan'
S10G29C ='Dnt Use TRICARE:Prsnl dr not available'
S10G29C_O='Dnt Use TRICARE:Prsnl dr not available'
S10G29D ='Dnt Use TRICARE:Benefits poor'
S10G29D_O='Dnt Use TRICARE:Benefits poor'
S10G29E ='Dnt Use TRICARE:get care easier /w civ plan'
S10G29E_O='Dnt Use TRICARE:get care easier /w civ plan'
S10G29F ='Dnt Use TRICARE:Cost less /w civ plan'
S10G29F_O='Dnt Use TRICARE:Cost less /w civ plan'
S10G29G ='Dnt Use TRICARE:no mltry facilities near me'
S10G29G_O='Dnt Use TRICARE:no mltry facilities near me'
S10G29H ='Dnt Use TRICARE:prefer civilian drs'
S10G29H_O='Dnt Use TRICARE:prefer civilian drs'
S10G29I ='Dnt Use TRICARE:prefer civilian hospitals'
S10G29I_O='Dnt Use TRICARE:prefer civilian hospitals'
S10G29J ='Dnt Use TRICARE:happy /w civ plan'
S10G29J_O='Dnt Use TRICARE:happy /w civ plan'
S10G29K ='Dnt Use TRICARE:another reason'
S10G29K_O='Dnt Use TRICARE:another reason'
S10G30 ='Self/plcy holder pay all/part cvlan hlth ins'
S10G30_O='Self/plcy holder pay all/part cvlan hlth ins'
S10G31 ='Prblm gttng info frm TRICARE benefits'
S10G31_O='Prblm gttng info frm TRICARE benefits'
S10G32 ='Is personal Dr a civilian'
S10G32_O='Is personal Dr a civilian'
S10G33 ='Personal Dr accpts TRICARE'
S10G33_O='Personal Dr accpts TRICARE'
S10G34 ='Snc TRICARE elgbl: difficult to see psrnl dr'
S10G34_O='Snc TRICARE elgbl: difficult to see psrnl dr'
S10G35 ='Snc TRICARE elgbl: difficult to see spclst'
S10G35_O='Snc TRICARE elgbl: difficult to see spclst'
S10G40 ='Aware of TRICARE Reserve Select (TRS)'
S10G40_O='Aware of TRICARE Reserve Select (TRS)'
S10G41 ='I/Sponsor eligible to purchase TRS'
S10G41_O='I/Sponsor eligible to purchase TRS'
S10G42 ='Aware of changes to TRS health plan'
S10G42_O='Aware of changes to TRS health plan'
S10G43 ='Enrolled in TRS since 10/1/2007'
S10G43_O='Enrolled in TRS since 10/1/2007'

S10011 ='Agree/disagree: able to see provider when needed'
S10011_O='Agree/disagree: able to see provider when needed'

S10014 ='How satisfied with health care during last visit'
S10014_O='How satisfied with health care during last visit'

N1 = "Coding Scheme Note 1"
N2 = "Coding Scheme Note 2"
N3 = "Coding Scheme Note 3"
N4 = "Coding Scheme Note 4"
N5 = "Coding Scheme Note 5"
N6 = "Coding Scheme Note 6"
N7 = "Coding Scheme Note 7"
N8 = "Coding Scheme Note 8"
N8A1 = "Coding Scheme Note 8A1"
N9 = "Coding Scheme Note 9"
N10 = "Coding Scheme Note 10"
N10A1= "Coding Scheme Note 10A1"
N11 = "Coding Scheme Note 11"
N11B = "Coding Scheme Note 11B"
N12 = "Coding Scheme Note 12"
N13 = "Coding Scheme Note 13"
N14 = "Coding Scheme Note 14"
N15 = "Coding Scheme Note 15"
N16 = "Coding Scheme Note 16"
N16B1= "Coding Scheme Note 16B1"
N16B2= "Coding Scheme Note 16B2"
N16B3= "Coding Scheme Note 16B3"
N16B4= "Coding Scheme Note 16B4"
N17 = "Coding Scheme Note 17"
N18 = "Coding Scheme Note 18"
N19A = "Coding Scheme Note 19A"
N19B = "Coding Scheme Note 19B"
N20 = "Coding Scheme Note 20"
N21 = "Coding Scheme Note 21"
N22 = "Coding Scheme Note 22"
N23 = "Coding Scheme Note 23"
N24 = "Coding Scheme Note 24"

MISS_1 = "Count of: Violates Skip Pattern"
MISS_4 = "Count of: Incomplete grid error"
MISS_5 = "Count of: Scalable reponse of Don't know"
MISS_6 = "Count of: Not applicable - valid skip"
MISS_7 = "Count of: Out-of-range error"
MISS_8 = "Count of: Multiple response error"
MISS_9 = "Count of: No response - invalid skip"
MISS_TOT = "Total number of missing responses"
XSEXA = "Male or Female - R"

;

F.2.C Q2FY2010\PROGRAMS\CODINGScheme\CSCHM10Q.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES FOR QUARTER 2 FY2010.

```
*****;
* Program: Cschm10q.sas
* Written: 06/04/2001
* Author: C. Rankin
*
* Input: MERGESYN.sas7bdat - Merged MPR Sampling, DEERS, and Synovate Response Data
* Output: CSCHM10Q.sas7bdat - Coding scheme file
*
* Modified: 9/20/2001 - Recodes removed (stored in recodes_old.sas)
*           10/31/2001 - Revised notes 16 and 17 (became notes 26 and 27)
*           3/22/2002 - Updated Variable names for Q1 2002 and added
*                   Include file RENAME.SAS to change the variable
*                   names from 01 to 02. Skipping 01 designation to make
*                   survey reflect year of fielding
*           5/09/2002 - Change to logic in TFL supplement
*           3/17/2003 - Updated Variables names for Q1 2003
*           4/11/2003 - Added note 19a to accomodate Q1 2003 error where
*                   an option on most of the questionnaires was omitted for
*                   H03062
*           3/28/2008 - Updated Variable names for Q2 FY 2008
*           12/14/2009 - Updated Variable names for Q1 FY 2010
* Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
*           Response Data, check for consistency in responses and skip
*           patterns
* Include
* files: Cschm10q.fmt
*****;
```

```
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
```

```
LIBNAME LIBRARY "...\\DATA\AFINAL\FMTLIB";
LIBNAME IN v9 "...\\DATA\AFINAL";
LIBNAME OUT v9 "...\\DATA\AFINAL";
```

```
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM10q;
%LET PERIOD=January, 2009 to December, 2009;
```

```
/* Variable names in survey -- become recoded variables */
```

```
%Let varlist1 =
```

- H10001 H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
- H10002I H10002J H10002K H10002M H10002R H10002L H10003 H10004
- H10005 H10006 H10007 H10008 H10009 H10010 H10011 H10012 H10013 H10014
- H10015 H10016 H10017 H10018 H10019 H10020 H10021 H10022 H10023 H10024
- H10025 H10026 H10027
- S10009 S10010
- H10028 H10029 H10030 H10031
- S10V19 S10V20
- S10V21A S10V21B S10V21C S10V21D S10V21E S10V21F S10V21G S10V21H S10V21I S10V21J
- S10V22 S10V06
- S10V11A S10V11B S10V11C S10V11D S10V11E S10V11F S10V11G S10V11H S10V11I
- S10V23 S10V24 S10V25
- S10V26A S10V26B S10V26C S10V26D S10V26E S10V26F S10V26G S10V26H S10V26I S10V26J
- S10V27 S10V28 S10V07
- S10V12A S10V12B S10V12C S10V12D S10V12E S10V12F S10V12G S10V12H
- S10V01 S10V02 S10V05 S10V09
- S10B01 S10B02 S10B03 S10B04
- H10032 H10033 H10034B H10034 H10035 H10036 H10037 H10038 H10039 H10040
- H10041 H10042 H10043 H10044 H10045 H10046 H10047 H10048 H10049 H10050
- H10051 H10052 H10053 H10054 H10055
- S10D03 S10D02
- H10056 H10057 H10058 H10059 H10060 H10061 H10062 H10063 H10064 H10065
- H10066 H10067 H10068 H10069F H10069I H10070
- SREDA H10071A H10071B H10071C H10071D H10071E
- SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE
- H10072 H10073 H10074

```

S10011 S10014
;

/* _O variables are the original values from the survey response */

%Let varlist2 =
H10001_O H10002AO H10002CO H10002NO H10002OO H10002PO H10002QO H10002FO H10002GO H10002HO
H10002IO H10002JO H10002KO H10002MO H10002RO H10002LO H10003_O H10004_O
H10005_O H10006_O H10007_O H10008_O H10009_O H10010_O H10011_O H10012_O H10013_O H10014_O
H10015_O H10016_O H10017_O H10018_O H10019_O H10020_O H10021_O H10022_O H10023_O H10024_O
H10025_O H10026_O H10027_O
S10009_O S10010_O
H10028_O H10029_O H10030_O H10031_O
S10V19_O S10V20_O
S10V21AO S10V21BO S10V21CO S10V21DO S10V21EO S10V21FO S10V21GO S10V21HO S10V21IO S10V21JO
S10V22_O S10V06_O
S10V11AO S10V11BO S10V11CO S10V11DO S10V11EO S10V11FO S10V11GO S10V11HO S10V11IO
S10V23_O S10V24_O S10V25_O
S10V26AO S10V26BO S10V26CO S10V26DO S10V26EO S10V26FO S10V26GO S10V26HO S10V26IO S10V26JO
S10V27_O S10V28_O S10V07_O
S10V12AO S10V12BO S10V12CO S10V12DO S10V12EO S10V12FO S10V12GO S10V12HO
S10V01_O S10V02_O S10V05_O S10V09_O
S10B01_O S10B02_O S10B03_O S10B04_O
H10032_O H10033_O H10034BO H10034_O H10035_O H10036_O H10037_O H10038_O H10039_O H10040_O
H10041_O H10042_O H10043_O H10044_O H10045_O H10046_O H10047_O H10048_O H10049_O H10050_O
H10051_O H10052_O H10053_O H10054_O H10055_O
S10D03_O S10D02_O
H10056_O H10057_O H10058_O H10059_O H10060_O H10061_O H10062_O H10063_O H10064_O H10065_O
H10066_O H10067_O H10068_O H10069FO H10069IO H10070_O
SREDA_O H10071AO H10071BO H10071CO H10071DO H10071EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O
H10072_O H10073_O H10074_O
S10011_O S10014_O
;

TITLE "DoD 2010 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";

DATA MERGESYN;

    SET IN.MERGESYN(RENAME=(H10070 = H10070CH
    ));

*****;
* Code added by Jacqueline Agufa 09/15/2004 to fix name of race variable;
*****;

RENAME SRACEA = SRRACEA;
RENAME SRACEB = SRRACEB;
RENAME SRACEC = SRRACEC;
RENAME SRACED = SRRACED;
RENAME SRACEE = SRRACEE;

**** update variables with both filled items and check boxes
**** Per Eric Schone;

IF H10069F LT 1 THEN H10069F=H10069FN;
IF H10069I IN (-9,.) THEN H10069I=H10069IN;

H10070= COMPRESS(H10070CH, ' ')*1;

DROP H10070CH;

IF H10070=0 AND H10070N=-9 THEN H10070 =H10070N;
IF H10070<100 AND H10070N NE -9 THEN H10070 =H10070N;

*** Correct odd height and weights Per Eric Schone;

```

```

IF H10069F NOT IN (-9,.) THEN DO;
  IF H10069F < 2 OR
    H10069F > 8
  THEN H10069F= -7;
END;

IF 0 <= H10070 < 40 OR
  H10070 > 500
THEN H10070= -7;

*** MER 03/23/10 Logic for collapsing ***
*** S10V28A-S10V28N into one variable ***;
ARRAY SPCLSTS S10V28A--S10V28N;

NUM_SPCLSTS=0;

DO OVER SPCLSTS;
  IF SPCLSTS = 1 THEN NUM_SPCLSTS+1; /* Count number of specialists marked */
END;

IF NUM_SPCLSTS = 0 THEN S10V28 = .; /* Set S10V28 = missing if no specialists marked */
ELSE DO;
  IF NUM_SPCLSTS = 1 THEN SPCLST_NUM = 1; /* If only 1 marked specialist, use
that one. */
  ELSE SPCLST_NUM = CEIL(UNIFORM(51335)*NUM_SPCLSTS); /* If more than one marked specialist
*/
/* randomly choose which one to use. */

  TOT_SPCLSTS=0; /* Use this value to count all specialist types */

  DO OVER SPCLSTS;
    TOT_SPCLSTS+1; /* Increment by 1 for each specialist var. */
    IF SPCLSTS = 1 AND SPCLST_NUM > 0 THEN DO; /* If spclst is marked and S10V28 has not
been assigned */
      SPCLST_NUM = SPCLST_NUM - 1; /* subtract by 1 the # of spclsts until the
chosen one. */
      IF SPCLST_NUM = 0 THEN S10V28 = TOT_SPCLSTS; /* Assign S10V28 to the randomly
chosen spclst. */
    END;
  END;
END;

DROP NUM_SPCLSTS SPCLST_NUM TOT_SPCLSTS;
*** End of S10V28 logic ***;

RUN;

DATA OUT.CSCHM10q;

  LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
  INFORMAT &VARLIST2. 4.;
  %INCLUDE "CSCHM10q.FMT";

/* label and format statements for original variables */

  SET MERGESYN;

*****
**** Recodes for invalid responses:*****
*****

/* This is a version of the coding scheme and coding tables for the
FY 2010 HCSDB Form A.
The following tables outline the coding of screening questions (skip),
and subsequent items to be answered (or not answered in a series
following a skip question.) */

```

```

/* First set up new variables that capture the original values */
/* recode the initial numeric values to the SAS numeric values */
/* specified in the coding scheme */

SEX=PNSEXCD;
AGE=INPUT(DAGEQY,8.);

ARRAY RECODE(*) &VARLIST1;
ARRAY ORIG(*) &VARLIST2;

DO I = 1 to DIM(ORIG);
  ORIG(I) = RECODE(I);
  IF ORIG(I) < 0 THEN DO;
    IF ORIG(I)= -9 THEN RECODE(I)=.;
    ELSE IF ORIG(I)= -8 THEN RECODE(I)=.A;
    ELSE IF ORIG(I)= -7 THEN RECODE(I)=.O;
    ELSE IF ORIG(I)= -6 THEN RECODE(I)=.N;
    ELSE IF ORIG(I)= -5 THEN RECODE(I)=.D;
    ELSE IF ORIG(I)= -4 THEN RECODE(I)=.I;
    ELSE IF ORIG(I)= -1 THEN RECODE(I)=.C;
    ELSE RECODE(I)=RECODE(I);
  END;
END;
DROP I;

/* recode selected responses to be 1=marked, 2=unmarked */

ARRAY MARKED(*)
  H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
  H10002I H10002J H10002K H10002M H10002R H10002L

  S10V21A S10V21B S10V21C S10V21D S10V21E S10V21F S10V21G S10V21H S10V21I S10V21J
  S10V11A S10V11B S10V11C S10V11D S10V11E S10V11F S10V11G S10V11H S10V11I
  S10V26A S10V26B S10V26C S10V26D S10V26E S10V26F S10V26G S10V26H S10V26I S10V26J
  S10V12A S10V12B S10V12C S10V12D S10V12E S10V12F S10V12G S10V12H

  H10071A H10071B H10071C H10071D H10071E
  SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
  ;

ARRAY INFORMAT(*)
  H10002AO H10002CO H10002NO H10002OO H10002PO H10002QO H10002FO H10002GO H10002HO
  H10002IO H10002JO H10002KO H10002MO H10002RO H10002LO

  S10V21AO S10V21BO S10V21CO S10V21DO S10V21EO S10V21FO S10V21GO S10V21HO S10V21IO
S10V21JO
  S10V11AO S10V11BO S10V11CO S10V11DO S10V11EO S10V11FO S10V11GO S10V11HO S10V11IO
S10V26AO S10V26BO S10V26CO S10V26DO S10V26EO S10V26FO S10V26GO S10V26HO S10V26IO
S10V26JO
  S10V12AO S10V12BO S10V12CO S10V12DO S10V12EO S10V12FO S10V12GO S10V12HO

  H10071AO H10071BO H10071CO H10071DO H10071EO
  SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO
  ;

DO J=1 TO DIM(INFORMAT);
  IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
  ELSE MARKED(J)=2;
END;
DROP J;

FORMAT
  H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
  H10002I H10002J H10002K H10002M H10002R H10002L

  S10V21A S10V21B S10V21C S10V21D S10V21E S10V21F S10V21G S10V21H S10V21I S10V21J
  S10V11A S10V11B S10V11C S10V11D S10V11E S10V11F S10V11G S10V11H S10V11I
  S10V26A S10V26B S10V26C S10V26D S10V26E S10V26F S10V26G S10V26H S10V26I S10V26J
  S10V12A S10V12B S10V12C S10V12D S10V12E S10V12F S10V12G S10V12H

```

```
H10071A H10071B H10071C H10071D H10071E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
MARKED.;
```

```
*****;
```

```
/* skip coding scheme for all surveys not returned */
```

```
IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;
```

```
/** Note 1 -- H10003, H10004 health plan usage */
```

```
IF H10003 > 0 OR H10003 =.D THEN N1=1;
ELSE IF H10003=.N THEN DO;
  IF H10004 NOT=. THEN DO;
    N1=2;
    H10004=.C;
  END;
ELSE DO;
  N1=3;
  H10004=.N;
END;
END;
ELSE IF H10003=. THEN N1=4;
```

```
/** Note 2 -- H10006,H10007,H10008: illness or injury */
```

```
ARRAY NOTE2 H10007 H10008;
N2MARK=0;
N2NMISS=0;
N2NN=0;
```

```
DO OVER NOTE2;
  IF NOTE2 NE . THEN N2NMISS+1;
  IF NOTE2 NOT IN (.N,.) THEN N2MARK+1;
  IF NOTE2 EQ .N THEN N2NN+1;
END;
```

```
IF H10006=1 AND N2NMISS=0 THEN DO;
  N2=1;
```

```
END;
```

```
ELSE IF H10006 IN (1,.) AND N2NMISS>0 AND N2MARK=0 THEN DO;
```

```
  H10006=2;
```

```
  N2=2;
```

```
  DO OVER NOTE2;
```

```
    IF NOTE2=. THEN NOTE2=.N;
```

```
    ELSE NOTE2=.C;
```

```
  END;
```

```
END;
```

```
ELSE IF H10006=1 AND N2MARK=1 AND N2NN=1 THEN DO;
```

```
  DO OVER NOTE2;
```

```
    IF NOTE2=.N THEN NOTE2=.;
```

```
  END;
```

```
  N2=3;
```

```
END;
```

```
ELSE IF H10006=1 AND N2MARK>0 THEN DO;
```

```
  N2=4;
```

```
END;
```

```
ELSE IF H10006=2 AND N2MARK=1 AND N2NN=1 THEN DO;
```

```
  H10007=.C;
```

```
  H10008=.C;
```

```
  N2=5;
```

```
END;
```

```
ELSE IF H10006 IN (2,.) AND N2MARK>0 THEN DO;
```

```
  H10006=1;
```

```
  N2=6;
```

```
  DO OVER NOTE2;
```

```
    IF NOTE2=.N THEN NOTE2=.;
```

```
  END;
```

```
END;
```

```
ELSE IF H10006=2 AND (N2NMISS=0 OR (N2NMISS>0 AND N2MARK=0)) THEN DO;
```

```

N2=7;
DO OVER NOTE2;
  IF NOTE2=. THEN NOTE2=.N;
  ELSE NOTE2=.C;
END;
END;
ELSE IF H10006=. AND N2NMISS=0 THEN N2=8;

```

```

DROP N2NMISS N2MARK N2NN;

```

```

/** Note 3 -- H10009,H10010,H10011: regular or routine healthcare **/

```

```

ARRAY Note3 H10010 H10011;
N3MARK=0;
N3NMISS=0;
N3NN=0;

```

```

DO OVER Note3;
  IF Note3 NE . THEN N3NMISS+1;
  IF Note3 NOT IN (.N,.) THEN N3MARK+1;
  IF Note3 EQ .N THEN N3NN+1;
END;

```

```

IF H10009=1 AND N3NMISS=0 THEN DO;
  N3=1;

```

```

END;

```

```

ELSE IF H10009 IN (1,.) AND N3NMISS>0 AND N3MARK=0 THEN DO;
  H10009=2;

```

```

  N3=2;

```

```

  DO OVER Note3;

```

```

    IF Note3=. THEN Note3=.N;

```

```

    ELSE Note3=.C;

```

```

  END;

```

```

END;

```

```

ELSE IF H10009=1 AND N3MARK=1 AND N3NN=1 THEN DO;

```

```

  DO OVER Note3;

```

```

    IF Note3=.N THEN Note3=.;

```

```

  END;

```

```

  N3=3;

```

```

END;

```

```

ELSE IF H10009=1 AND N3MARK>0 THEN DO;

```

```

  N3=4;

```

```

END;

```

```

ELSE IF H10009=2 AND N3MARK=1 AND N3NN=1 THEN DO;

```

```

  H10010=.C;

```

```

  H10011=.C;

```

```

  N3=5;

```

```

END;

```

```

ELSE IF H10009 IN (2,.) AND N3MARK>0 THEN DO;

```

```

  H10009=1;

```

```

  N3=6;

```

```

  DO OVER Note3;

```

```

    IF Note3=.N THEN Note3=.;

```

```

  END;

```

```

END;

```

```

ELSE IF H10009=2 AND (N3NMISS=0 OR (N3NMISS>0 AND N3MARK=0)) THEN DO;

```

```

  N3=7;

```

```

  DO OVER Note3;

```

```

    IF Note3=. THEN Note3=.N;

```

```

    ELSE Note3=.C;

```

```

  END;

```

```

END;

```

```

ELSE IF H10009=. AND N3NMISS=0 THEN N3=8;

```

```

DROP N3NMISS N3MARK N3NN;

```

```

/** Note 4 -- H10013, H10014-H10018: doctor's office or clinic **/

```

```

ARRAY NOTE4 H10014-H10018;

```



```

N4MARK=0;
N4NMISS=0;

DO OVER NOTE4;
  IF NOTE4 NE . THEN N4NMISS+1;
  IF NOTE4 NOT IN (., .N) THEN N4MARK+1;
END;

IF H10013=1 THEN DO;
  N4=1;
  DO OVER NOTE4;
    IF NOTE4=. THEN NOTE4=.N;
    ELSE NOTE4=.C;
  END;
END;
ELSE IF H10013 IN (2,3,4,5,6,7,.) AND N4NMISS>0 AND N4MARK=0 THEN DO;
  H10013=1;
  N4=2;
  DO OVER NOTE4;
    IF NOTE4=. THEN NOTE4=.N;
    ELSE NOTE4=.C;
  END;
END;
ELSE IF H10013 IN (2,3,4,5,6,7) AND (N4NMISS=0 OR N4MARK>0) THEN DO;
  DO OVER NOTE4;
    IF NOTE4=.N THEN NOTE4=.;
  END;
  N4=3;
END;
ELSE IF H10013=. AND N4NMISS=0 THEN N4=4;
ELSE IF H10013 IN (.) AND N4MARK>0 THEN DO;
  N4=5;
  DO OVER NOTE4;
    IF NOTE4=.N THEN NOTE4=.;
  END;
END;

DROP N4NMISS N4MARK;

/** Note 5 -- H10015, H10016-H10017: doctor's office or clinic- treatment **/

IF H10015 IN (.,.C) THEN N5=1;
ELSE IF H10015= 1 THEN N5=2;
ELSE IF H10015 IN (2,.) AND H10016 IN (1,2) THEN DO;
  N5=3;
  H10015=1;
END;
ELSE IF H10015 IN (2,.) AND (H10016 IN (3,4,.) AND H10017 IN (1,2)) THEN DO;
  N5=4;
  H10015=1;
END;
ELSE IF H10015 IN (2) AND (H10016 IN (3,4,.) AND H10017 IN (3,4,.) THEN DO;
  N5=5;
  IF H10016 = . THEN H10016 = .N;
  ELSE H10016 = .C;
  IF H10017 = . THEN H10017 = .N;
  ELSE H10017 = .C;
END;
ELSE IF H10015 IN (.) AND (H10016 IN (3,4,.) AND H10017 IN (3,4,.) THEN DO;
  N5=6;
END;

/** Note 6 -- H10019, H10020-H10027, S10009: personal doctor **/
/* MER 07/01/09 */

ARRAY NOTE6 H10021-H10024;

N6MARK=0;

DO OVER NOTE6;

```

```

    IF NOTE6 NOT IN (., .N) THEN N6MARK+1;
END;

IF H10020 NOT IN (0,.) THEN N6MARK+1;

IF H10019 = 1 THEN DO;
    N6=1;
    IF H10027=.N THEN H10027=.;
END;
ELSE IF H10019 in (2,.) AND H10027 in (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
    N6=2;
    H10019=1;
END;
ELSE IF H10019 in (2,.) AND N6MARK>0 AND H10027 = . THEN DO;
    N6=3;
    H10019=1;
END;
ELSE IF H10019 = 2 AND N6MARK>0 AND H10027 = .N THEN DO;
    N6=4;
    IF H10020=. THEN H10020=.N;
    ELSE H10020=.C;
    DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
    IF S10009=. THEN S10009=.N;
    ELSE S10009=.C;
    H10027=.C;
END;
ELSE IF H10019 = 2 AND N6MARK=0 AND H10027 in (.N,.) THEN DO;
    N6=5;
    IF H10020=. THEN H10020=.N;
    ELSE H10020=.C;
    DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
    IF S10009=. THEN S10009=.N;
    ELSE S10009=.C;
    IF H10027=. THEN H10027=.N;
    ELSE H10027=.C;
END;
ELSE IF H10019 = . AND H10027 = .N THEN DO; /* MER 07/31/09 combined rows 6 and 7 */
    N6=6;
    H10019=2;
    IF H10020=. THEN H10020=.N;
    ELSE H10020=.C;
    DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
    IF S10009=. THEN S10009=.N;
    ELSE S10009=.C;
    H10027=.C;
END;
ELSE IF H10019 = . AND N6MARK=0 AND H10027 = . THEN N6=7;

DROP N6MARK;

```

/** Note 7 -- H10020, H10021-H10026: personal doctor visit **/

```

ARRAY NOTE7 H10021-H10024;

N7MARK=0;
N7NMISS=0;

DO OVER NOTE7;
  IF NOTE7 NE . THEN N7NMISS+1;
  IF NOTE7 NOT IN (., .N) THEN N7MARK+1;
END;

IF H10020 IN (.N, .C) THEN N7=1;
ELSE IF H10020=0 THEN DO;
  N7=2;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
  IF H10025=. THEN H10025=.N;
  ELSE H10025=.C;
  IF H10026=. THEN H10026=.N;
  ELSE H10026=.C;
END;
ELSE IF H10020 IN (1,2,3,4,5,6,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
  H10020=0;
  N7=3;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
  IF H10025=. THEN H10025=.N;
  ELSE H10025=.C;
  IF H10026=. THEN H10026=.N;
  ELSE H10026=.C;
END;
ELSE IF H10020 IN (1,2,3,4,5,6,.) AND (N7NMISS=0 OR N7MARK>0) THEN DO;
  DO OVER NOTE7;
    IF NOTE7=.N THEN NOTE7=.;
  END;
  N7=4;
END;

DROP N7NMISS N7MARK;

/** Note 8 -- H10025, H10026: care from another doctor or healthcare provider **/

IF H10025 IN (.N, .C) THEN N8=1;
ELSE IF H10025=1 THEN N8=2;
ELSE IF H10025 IN (2,.) AND H10026 IN (1,2,3,4) THEN DO;
  H10025=1;
  N8=3;
END;
ELSE IF H10025=2 AND H10026 IN (.) THEN DO;
  H10026=.N;
  N8=4;
END;
ELSE IF H10025=. AND H10026=. THEN N8=5;

/** Note 8A1 -- S10009, S10010: problem getting new personal doctor or nurse **/

IF S10009 IN (.N,.C) THEN N8A1=1; /* MER 07/31/09 gave each S10009 value its own row for
analysis purposes */
ELSE IF S10009=1 THEN DO;
  N8A1=2;
  IF S10010=. THEN S10010=.N;
  ELSE S10010=.C;
END;
ELSE IF S10009=2 THEN N8A1=3;
ELSE IF S10009=. THEN N8A1=4; /* MER 07/31/09 eliminated backward coding for missing S10009
*/

```

```

/** Note 9 -- H10028, H10029-H10031: needed to see a specialist in last 12 months **/

ARRAY NOTE9 H10029 H10031;

N9MARK=0;
N9NMISS=0;

DO OVER NOTE9;
  IF NOTE9 NE . THEN N9NMISS+1;
  IF NOTE9 NOT IN (., .N) THEN N9MARK+1;
END;

IF H10030 NE . THEN N9NMISS+1;
IF H10030 NOT IN (.,0) THEN N9MARK+1;

IF H10028 IN (1) THEN DO;
  N9=1;
  IF H10029=.N THEN H10029=.;
END;
ELSE IF H10028 in (2,.) AND N9MARK>0 THEN DO;
  N9=2;
  H10028=1;
  IF H10029=.N THEN H10029=.;
END;
ELSE IF H10028 in (2) THEN DO;
  N9=3;
  DO OVER NOTE9;
    IF NOTE9=. THEN NOTE9=.N;
    ELSE NOTE9=.C;
  END;
  IF H10030=. THEN H10030=.N;
  ELSE H10030=.C;
END;
ELSE IF H10028=. AND N9NMISS>0 AND N9MARK=0 THEN DO;
  N9=4;
  H10028=2;
  DO OVER NOTE9;
    IF NOTE9=. THEN NOTE9=.N;
    ELSE NOTE9=.C;
  END;
  IF H10030=. THEN H10030=.N;
  ELSE H10030=.C;
END;
ELSE IF H10028=. AND N9NMISS=0 THEN N9=5;

DROP N9NMISS N9MARK;

/** Note 10 -- H10030, H10031: saw a specialist in last 12 months **/

IF H10030 IN (.N,.C) THEN N10=1;
ELSE IF H10030 IN (1,2,3,4,5) AND H10031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN N10=2;
ELSE IF H10030 IN (1,2,3,4,5,..) AND H10031=.N THEN DO;
  H10030=0;
  H10031=.C;
  N10=3;
END;
ELSE IF H10030 = 0 THEN DO;
  IF H10031=. THEN H10031=.N;
  ELSE H10031=.C;
  N10=4;
END;
ELSE IF H10030=. THEN N10=5;

/** Note 10B1 -- S10V19, S10V22: is personal doctor or nurse civilian and/or in TCN **/

IF S10V19 IN (1,2,..) AND S10V22 IN (1,2,..) THEN N10B1=1;
ELSE IF S10V19 IN (1,2) AND S10V22=.N THEN DO;
  N10B1=2;
  S10V22=.;

```

```

END;
ELSE IF S10V19=. AND S10V22=.N THEN DO;
  N10B1=3;
  S10V19=.N;
END;
ELSE IF S10V19=.N THEN DO;
  IF S10V22 IN (1,2) THEN DO;
    N10B1=4;
    S10V19=.;
  END;
  ELSE IF S10V22=. THEN DO;
    N10B1=5;
    S10V22=.N;
  END;
  ELSE IF S10V22=.N THEN N10B1=6;
END;

/** Note 10B2 -- S10V20, S10V21A-S10V21J: problem finding personal doctor who accepts TRICARE
**/

ARRAY NOTE10B2 S10V21A--S10V21J;

N10B2MARK=0;

DO OVER NOTE10B2;
  IF NOTE10B2 = 1 THEN N10B2MARK+1;
END;

IF S10V20 IN (1,2) THEN N10B2=1;
ELSE IF S10V20 = 3 THEN DO;
  IF N10B2MARK=0 THEN DO;
    N10B2=2;
    DO OVER NOTE10B2;
      NOTE10B2=.N;
    END;
  END;
  ELSE DO;
    N10B2=3;
    S10V20=.;
  END;
END;
ELSE DO;
  IF N10B2MARK=0 THEN DO;
    N10B2=4;
    DO OVER NOTE10B2;
      NOTE10B2=.;
    END;
  END;
  ELSE N10B2=5;
END;

DROP N10B2MARK;

/** Note 10B3 -- S10V06, S10V11A-S10V11I: problem finding doctor from TRICARE civilian network
**/

ARRAY NOTE10B3 S10V11A--S10V11I;

N10B3MARK=0;

DO OVER NOTE10B3;
  IF NOTE10B3 = 1 THEN N10B3MARK+1;
END;

IF S10V06 IN (1,2) THEN N10B3=1;
ELSE IF S10V06 IN (3,.N) THEN DO;
  IF N10B3MARK=0 THEN DO;
    N10B3=2;
    DO OVER NOTE10B3;
      NOTE10B3=.N;
    END;
  END;
END;

```

```

ELSE DO;
  N10B3=3;
  S10V06=.;
END;
END;
ELSE DO;
  IF N10B3MARK=0 THEN DO;
    N10B3=4;
    DO OVER NOTE10B3;
      NOTE10B3=.;
    END;
  END;
  ELSE N10B3=5;
END;

DROP N10B3MARK;

/** Note 10B4 -- S10V23, S10V24: did you see a civilian specialist **/

IF S10V23 = 1 THEN N10B4=1;
ELSE IF S10V23 IN (2,.) AND S10V24 IN (1,2) THEN DO;
  N10B4=2;
  S10V23=1;
END;
ELSE IF S10V23 = 2 AND S10V24 = . THEN DO;
  N10B4=3;
  S10V24=.N;
END;
ELSE IF S10V23 = . AND S10V24 = . THEN N10B4=4;

/** Note 10B5 -- S10V25, S10V26A-S10V26J, S10V27-S10V28, S10V07, S10V12A-S10V12H: problem
finding specialist to accept TRICARE **/

ARRAY NOTE10B5a S10V26A--S10V26J;
ARRAY NOTE10B5b S10V27-S10V28 S10V07;
ARRAY NOTE10B5c S10V12A--S10V12H;

N10B5aMARK=0;
N10B5bMARK=0;
N10B5cMARK=0;

DO OVER NOTE10B5a;
  IF NOTE10B5a = 1 THEN N10B5aMARK+1;
END;

DO OVER NOTE10B5b;
  IF NOTE10B5b NOT IN (., .N) THEN N10B5bMARK+1;
END;

DO OVER NOTE10B5c;
  IF NOTE10B5c = 1 THEN N10B5cMARK+1;
END;

IF S10V25 IN (1,2) THEN N10B5=1;
ELSE IF S10V25 = 3 AND N10B5aMARK=0 THEN DO;
  N10B5=2;
  DO OVER NOTE10B5a;
    NOTE10B5a=.N;
  END;
END;
ELSE IF S10V25 IN (3,.N) AND N10B5aMARK>0 THEN DO;
  N10B5=3;
  S10V25=.;
END;
ELSE IF S10V25 = .N AND N10B5aMARK=0 AND N10B5bMARK=0 AND N10B5cMARK=0 THEN DO;
  N10B5=4;
  DO OVER NOTE10B5a;
    NOTE10B5a=.N;
  END;
  DO OVER NOTE10B5b;
    IF NOTE10B5b = . THEN NOTE10B5b=.N;
    ELSE NOTE10B5b = .C;
  END;
END;

```

```

        END;
        DO OVER NOTE10B5c;
            NOTE10B5c=.N;
        END;
    END;
ELSE IF S10V25 = .N AND N10B5aMARK=0 AND (N10B5bMARK>0 OR N10B5cMARK>0) THEN DO;
    N10B5=5;
    S10V25=. ;
END;
ELSE IF S10V25 = . AND N10B5aMARK=0 THEN DO;
    N10B5=6;
    DO OVER NOTE10B5a;
        NOTE10B5a=. ;
    END;
END;
ELSE IF S10V25 = . AND N10B5aMARK>0 THEN N10B5=7;

DROP N10B5aMARK N10B5bMARK N10B5cMARK;

/** Note 10B6 -- S10V07, S10V12A--S10V12H: problem finding specialist to accept TRICARE **/

ARRAY NOTE10B6 S10V12A--S10V12H;

N10B6MARK=0;
N10B6NOTNA=0;

DO OVER NOTE10B6;
    IF NOTE10B6 = 1 THEN N10B6MARK+1;
    IF NOTE10B6 NOT IN (.N,.C) THEN N10B6NOTNA+1;
END;

IF S10V07 IN (.N,.C) AND N10B6NOTNA=0 THEN N10B6=1;
ELSE IF S10V07 IN (1,2) THEN N10B6=2;
ELSE IF S10V07 IN (3,.N) THEN DO;
    IF N10B6MARK=0 THEN DO;
        N10B6=3;
        DO OVER NOTE10B6;
            NOTE10B6=.N;
        END;
    END;
    ELSE DO;
        N10B6=4;
        S10V07=. ;
    END;
END;
ELSE DO;
    IF N10B6MARK=0 THEN DO;
        N10B6=5;
        DO OVER NOTE10B6;
            NOTE10B6=. ;
        END;
    END;
    ELSE N10B6=6;
END;

DROP N10B6MARK N10B6NOTNA;

/** Note 10B7 -- S10V01, S10V02, S10V05, S10V09: healthcare in TRICARE civilian provider network
**/

ARRAY NOTE10B7 S10V02 S10V05 S10V09;

N10B7MARK=0;

DO OVER NOTE10B7;
    IF NOTE10B7 NOT IN (., .N) THEN N10B7MARK+1;
END;

IF S10V01 IN (1,2,3,4,.) THEN N10B7=1;
ELSE DO;
    IF N10B7MARK=0 THEN DO;
        N10B7=2;

```

```

        DO OVER NOTE10B7;
          IF NOTE10B7 = . THEN NOTE10B7=.N;
          ELSE NOTE10B7 = .C;
        END;
      END;
    ELSE DO;
      N10B7=3;
      S10V01=. ;
    END;
  END;
END;

DROP N10B7MARK;

/** Note 10A1 -- S10B02, S10B03-S10B04: overall mental health **/

ARRAY NOTE10A1 S10B03-S10B04;

N10A1MARK=0;
N10A1NMISS=0;

DO OVER NOTE10A1;
  IF NOTE10A1 NE . THEN N10A1NMISS+1;
  IF NOTE10A1 NOT IN (., .N) THEN N10A1MARK+1;
END;

IF S10B02 = 1 THEN DO;
  N10A1=1;
  DO OVER NOTE10A1;
    IF NOTE10A1=.N THEN NOTE10A1=. ;
  END;
END;
ELSE IF S10B02 IN (2,.) AND (N10A1MARK>0) THEN DO;
  N10A1=2;
  S10B02=1;
  DO OVER NOTE10A1;
    IF NOTE10A1=.N THEN NOTE10A1=. ;
  END;
END;
ELSE IF S10B02=2 AND (N10A1NMISS=0 OR (N10A1NMISS > 0 AND N10A1MARK = 0)) THEN DO;
  N10A1=3;
  DO OVER NOTE10A1;
    IF NOTE10A1 = . THEN NOTE10A1=.N;
    ELSE NOTE10A1 = .C;
  END;
END;
ELSE IF S10B02 IN (.) AND (N10A1NMISS > 0 AND N10A1MARK = 0) THEN DO;
  N10A1=4;
  S10B02=2;
  DO OVER NOTE10A1;
    IF NOTE10A1 = . THEN NOTE10A1=.N;
    ELSE NOTE10A1 = .C;
  END;
END;
ELSE IF S10B02 IN (.) AND N10A1NMISS=0 THEN N10A1=5;

DROP N10A1NMISS N10A1MARK;

/** Note 11 -- H10032, H10033: tried to get care, tests, or treatment from health plan**/

IF H10032=1 AND H10033 IN (1,2,3,4,.) THEN N11=1;
ELSE IF H10032 IN (1,.) AND H10033=.N THEN DO;
  H10032=2;
  H10033=.C;
  N11=2;
END;
ELSE IF H10032 IN (2,.) AND H10033 IN (1,2,3,4) THEN DO;
  H10032=1;
  N11=3;
END;
ELSE IF H10032=2 AND H10033 IN (.,.N) THEN DO;
  IF H10033=. THEN H10033=.N;
  ELSE H10033=.C;

```



```

        N11=4;
    END;
    ELSE IF H10032=. AND H10033=. THEN N11=5;

/** Note 11B -- H10034B, H10034: look for info in written materials or on internet**/
    IF H10034B=1 AND H10034 IN (1,2,3,4,.) THEN N11B=1;
    ELSE IF H10034B IN (1,.) AND H10034=.N THEN DO;
        N11B=2;
        H10034B=2;
        H10034=.C;
    END;
    ELSE IF H10034B IN (2,.) AND H10034 IN (1,2,3,4) THEN DO;
        N11B=3;
        H10034B=1;
    END;
    ELSE IF H10034B=2 AND H10034 IN (.N,.) THEN DO;
        N11B=4;
        IF H10034=. THEN H10034=.N;
        ELSE H10034=.C;
    END;
    ELSE IF H10034B=. AND H10034=. THEN N11B=5;

/** Note 12 -- H10035, H10036: tried to get cost of service/equipment from health plan**/
    IF H10035=1 AND H10036 IN (1,2,3,4,.) THEN N12=1;
    ELSE IF H10035 IN (1,.) AND H10036=.N THEN DO;
        H10035=2;
        H10036=.C;
        N12=2;
    END;
    ELSE IF H10035 IN (2,.) AND H10036 IN (1,2,3,4) THEN DO;
        H10035=1;
        N12=3;
    END;
    ELSE IF H10035=2 AND H10036 IN (.,.N) THEN DO;
        IF H10036=. THEN H10036=.N;
        ELSE H10036=.C;
        N12=4;
    END;
    ELSE IF H10035=. AND H10036=. THEN N12=5;

/** Note 13 -- H10037, H10038: tried to get cost of prescription meds from health plan**/
    IF H10037=1 AND H10038 IN (1,2,3,4,.) THEN N13=1;
    ELSE IF H10037 IN (1,.) AND H10038=.N THEN DO;
        H10037=2;
        H10038=.C;
        N13=2;
    END;
    ELSE IF H10037 IN (2,.) AND H10038 IN (1,2,3,4) THEN DO;
        H10037=1;
        N13=3;
    END;
    ELSE IF H10037=2 AND H10038 IN (.,.N) THEN DO;
        IF H10038=. THEN H10038=.N;
        ELSE H10038=.C;
        N13=4;
    END;
    ELSE IF H10037=. AND H10038=. THEN N13=5;

/** Note 14 -- H10039, H10040-H10041: tried to use health plan's customer service **/
    ARRAY NOTE14 H10040-H10041;

    N14MARK=0;
    N14NMISS=0;

    DO OVER NOTE14;
        IF NOTE14 NE . THEN N14NMISS+1;
        IF NOTE14 NOT IN (., .N) THEN N14MARK+1;

```

```

END;

IF H10039 = 1 AND (N14MARK>0 OR N14NMISS=0) THEN DO;
  DO OVER NOTE14;
    IF NOTE14=.N THEN NOTE14=.;
  END;
  N14=1;
END;
ELSE IF H10039 IN (1,..) AND (N14NMISS > 0 AND N14MARK = 0) THEN DO;
  N14=2;
  H10039=2;
  DO OVER NOTE14;
    IF NOTE14 = . THEN NOTE14=.N;
    ELSE NOTE14 = .C;
  END;
END;
ELSE IF H10039 IN (2,..) AND (N14MARK>0) THEN DO;
  N14=3;
  H10039=1;
  DO OVER NOTE14;
    IF NOTE14=.N THEN NOTE14=.;
  END;
END;
ELSE IF H10039=2 AND (N14NMISS=0 OR (N14NMISS > 0 AND N14MARK = 0)) THEN DO;
  N14=4;
  DO OVER NOTE14;
    IF NOTE14 = . THEN NOTE14=.N;
    ELSE NOTE14 = .C;
  END;
END;
ELSE IF H10039 IN (.) AND N14NMISS=0 THEN N14=5;

DROP N14NMISS N14MARK;

/** Note 15 -- H10042, H10043: received forms to fill out from health plan **/

IF H10042=1 AND H10043 IN (1,2,3,4,..) THEN N15=1;
ELSE IF H10042 IN (1,..) AND H10043=.N THEN DO;
  H10042=2;
  H10043=.C;
  N15=2;
END;
ELSE IF H10042 IN (2,..) AND H10043 IN (1,2,3,4) THEN DO;
  H10042=1;
  N15=3;
END;
ELSE IF H10042=2 AND H10043 IN (,..N) THEN DO;
  IF H10043=. THEN H10043=.N;
  ELSE H10043=.C;
  N15=4;
END;
ELSE IF H10042=. AND H10043=. THEN N15=5;

/** Note 16 -- H10044, H10045-H10046: claims to health plan **/

ARRAY NOTE16 H10045-H10046;
N16MARK=0;
N16NDK=0;

DO OVER NOTE16;
  IF NOTE16 NOT IN (.N,.D,..) THEN N16MARK+1; /* At least one is marked */
  IF NOTE16 NOT IN (.,.D) THEN N16NDK+1; /* All are missing or blank or dnk */
END;

IF H10044=1 AND (N16MARK>0 OR N16NDK=0) THEN DO;
  N16=1;
  DO OVER NOTE16;
    IF NOTE16=.N THEN NOTE16=.;
  END;
END;
ELSE IF H10044 IN (1,..,D) AND N16MARK=0 AND N16NDK>0 THEN DO;
  N16=2;

```

```

H10044=2;
DO OVER NOTE16;
  IF NOTE16=. THEN NOTE16=.N;
  ELSE NOTE16=.C;
END;
END;
ELSE IF H10044 IN (2,..D) AND N16MARK>0
  THEN DO;
  H10044=1;
  N16=3;
  DO OVER NOTE16;
    IF NOTE16=.N THEN NOTE16=.;
  END;
END;
ELSE IF H10044 IN (2) AND N16MARK=0 THEN DO;
  N16=4;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (.D) AND N16NDK=0 THEN DO;
  N16=5;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (.) AND N16NDK=0 THEN N16=6;

DROP N16MARK N16NDK;

```

```

/** Note 17 -- smoking: H10051, H10052-H10055 **/

```

```

ARRAY NOTE17 H10053 H10054 H10055;

IF H10051=1 and H10052 IN (3,4) THEN DO; /* still smoke */
  N17=1;
END;
ELSE IF H10051=1 AND H10052 IN (2,.D) THEN DO; /* quit */
  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
  N17=2;
END;
ELSE IF H10051=1 AND H10052 = . THEN DO; /* don't know */
  N17=3;
END;
ELSE IF H10051 IN (2,.D,.) AND H10052 IN (3,4) THEN DO;
  H10051=1;

  N17=4;
END;
ELSE IF H10051 IN (2,.D) AND H10052 IN (2,.D, .) THEN DO; /*never smoke*/
  /* JMA March 25 2004,
  Updated because H10054 and H10055 have been added to the
  skip pattern */

  IF H10052 NE . THEN H10052 =.C;
  ELSE H10052=.N;

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;

  N17=5;
END;
ELSE IF H10051 IN ( .) THEN DO;
  IF (H10052 IN (2,.) AND
    (H10053 IN (2,3,4,5) OR H10054 IN (2,3,4,5) OR H10055 IN (2,3,4,5)))
  THEN DO;

```

```

/* JMA March 25 2004,
   Updated because H10054 and H10055 have been added to the
   skip pattern */

H10051=1;
N17=6;
END;
ELSE IF H10052 IN (2,.) THEN DO; /*MRE/blank*/
    N17=7;

END;
ELSE IF H10052=.D THEN DO; /*MRE/blank*/
    /* JMA March 25 2004,
       Updated because H10054 and H10055 have been added to the
       skip pattern */

    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
        ELSE NOTE17=.C;
    END;

    N17=8;
END;
END;

/** Note 18 -- advice from doctor on smoking: H10053-H10055 **/

IF H10053 EQ .N THEN DO; /* jma Sep 19 2006 */
    IF H10054 IN (.,.N) THEN H10054 = .N;
    ELSE H10054=.C;
    IF H10055 IN (.,.N) THEN H10055 = .N;
    ELSE H10055=.C;
    N18=1;
END;
ELSE IF H10053 EQ .C THEN DO; /* jma FEB 19 2008 */
    N18=2;
END;
ELSE IF H10053 EQ 1 AND (H10054 =.N AND H10055=.N) THEN DO; /* jma May 10 2007 */
    H10054 = 1;
    H10055 = 1;
    N18=3;
END;
ELSE IF H10053 EQ 1 AND (H10054 =.N) THEN DO; /* jma May 10 2007 */
    H10054 = 1;
    N18=4;
END;
ELSE IF H10053 EQ 1 AND (H10055=.N) THEN DO; /* jma May 10 2007 */
    H10055 = 1;
    N18=5;
END;
ELSE IF H10053 IN (2,3,4,5,.) AND (H10054 =.N AND H10055= .N) THEN DO; /* jma May 10 2007 */
    H10054 = .;
    H10055 = .;
    N18=6;
END;
ELSE IF H10053 IN (2,3,4,5,.) AND (H10054 =.N) THEN DO; /* jma May 10 2007 */
    H10054 = .;
    N18=7;
END;
ELSE IF H10053 IN (2,3,4,5,.) AND (H10055= .N) THEN DO; /* jma May 10 2007 */
    H10055 = .;
    N18=8;
END;
ELSE IF H10053 GE 1 AND (H10054 > H10053 AND H10055 > H10053) THEN DO; /* jma May 10 2007 */
    H10054 = H10053;
    H10055 = H10053;
    N18=9;
END;
ELSE IF H10053 GE 1 AND (H10054 > H10053) THEN DO; /* jma May 10 2007 */
    H10054 = H10053;
    N18=10;
END;
ELSE IF H10053 GE 1 AND (H10055 > H10053) THEN DO; /* jma May 10 2007 */

```

```

        H10055 = H10053;
        N18=11;
    END;
    ELSE IF H10053 GE 1 AND ((H10054 <= H10053 or H10054 = . ) AND (H10055 <= H10053 or
H10055=..))
    THEN DO; /* jma Feb 19 2007 */
        N18=12;
    END;
    ELSE IF (H10053=. AND H10054 IN (1,2,3,4,5,..) AND H10055 IN (1,2,3,4,5,..))
    THEN DO; /* jma Feb 19 2007 */
        N18=13;
    END;

/** Note 19 - gender H10056, SEX, H10057--H10062,
        XSEXA */

/* 1/21/98 use SRSEX & responses to gender specific questions
   if there is discrepancy between SRSEX and SEX */
/* set imputed FMALE based on gender specific questions */

ARRAY fmaleval H10057 H10058 H10059 H10060 H10061 H10062
        ;

cntfemale=0;
DO OVER fmaleval;          /* mammogram/pap smear/PREGNANT*/
    IF fmaleval>0 THEN cntfemale=cntfemale+1;
END;

IF cntfemale>0 THEN FMALE=1;
ELSE FMALE = 0;

IF H10056=. THEN DO;
    IF (SEX='F' AND FMALE) THEN DO;
        N19a=1;
        XSEXA=2;
    END;
    ELSE IF (SEX='F' AND FMALE=0) THEN DO;
        N19a=2;
        XSEXA=2;
    END;
    ELSE IF (SEX='M' AND FMALE) THEN DO;
        N19a=3;
        XSEXA=1;
    END;
    ELSE IF (SEX='M' AND FMALE=0) THEN DO;
        N19a=4;
        XSEXA=1;
    END;
    ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
        N19a=5;
        XSEXA=2;
    END;
    ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
        N19a=6;
        XSEXA=.;
    END;
    ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
        N19a=7;
        XSEXA=.;
    END;
END;
ELSE IF (H10056=1) THEN DO;
    IF FMALE=0 THEN DO;
        N19a=8;
        XSEXA=1;
    END;
    ELSE IF FMALE THEN DO;
        IF SEX='F' THEN DO;
            N19a=9;
            XSEXA=2;
        END;
    END;
END;

```

```

        ELSE DO;
            N19a=10;
            XSEXA=1;
        END;
    END;
END;
ELSE IF (H10056=2) THEN DO;
    IF FMALE THEN DO;
        N19a=11;
        XSEXA=2;
    END;
    ELSE IF FMALE=0 THEN DO;
        IF SEX='M' THEN DO;
            N19a=12;
            XSEXA=1;
        END;
        ELSE DO;
            N19a=13;
            XSEXA=2;
        END;
    END;
END;
END;

```

/* Note 19b - gender vs mammogram/paps/pregnancy */

```

ARRAY NOTE19b H10057 H10058 H10059 H10060 H10061 H10062
;
IF XSEXA=1 THEN DO; /* male */
    IF FMALE=0 THEN DO;
        N19b=1;
        DO OVER NOTE19b;
            NOTE19b=.N;
        END;
    END; /* valid skip */
    ELSE IF FMALE=1 THEN DO;
        N19b=2;
        DO OVER NOTE19b;
            IF NOTE19b=. THEN NOTE19b = .N;
            ELSE NOTE19b=.C;
        END;
    END; /* inconsistent response */
END;
ELSE IF XSEXA=2 THEN N19b=3; /* female */
ELSE IF XSEXA=. THEN DO; /* missing sex */
    N19b=4;
    DO OVER NOTE19b;
        NOTE19b=.;
    END;
END;

```

DROP FMALE CNTFMALE;

/* Note 20- breast exam for female 40 or over */

```

IF XSEXA=1 THEN DO; /* male */
    IF (H10058=.C OR H10058=.N) AND (H10059=.C OR H10059=.N)
    THEN N20 = 1;
END;
ELSE IF XSEXA=2 THEN DO;
    IF H10058=2 THEN N20=2; /* female 40 or over */
    ELSE IF H10058=1 THEN DO; /* female < 40 */
        IF H10059 NE . THEN H10059=.C;
        ELSE H10059=.N;
        N20=3;
    END;
    ELSE IF H10058=. THEN DO;
        IF H10059 NE . THEN DO;
            H10058=2;
            N20=4;
        END;
        ELSE IF H10059=. THEN DO;

```

```

        IF AGE<40 THEN DO;
            H10058 = 1;
            H10059=.N;
            N20=5;
        END;
        ELSE IF AGE >= 40 THEN DO;
            H10058=2;
            N20=6;
        END;
        ELSE IF AGE=. THEN N20=7;
    END;
END;
END;
ELSE IF XSEXA=. THEN N20=8;

```

/* Note 21 - gender vs Pregnancy */

```

IF XSEXA=1 THEN N21=1;          /* male */
ELSE IF XSEXA=2 THEN DO;      /* female */
    IF H10060=1 THEN DO;      /* pregnant */
        IF H10061=1 THEN DO;
            N21=2;
            IF H10062=. THEN H10062 = .N;
            ELSE H10062=.C;
        END;
        ELSE IF H10061=2 AND H10062 IN (2) THEN DO;
            N21=3;
            H10062=.;
        END;
        ELSE IF H10061=2 AND H10062 IN (4,3,1,.) THEN DO;
            N21=4;
        END;
        ELSE IF H10061 IN (3,.) THEN N21=5;
    END;
    ELSE IF H10060=2 THEN DO;
        IF H10061=. THEN H10061 = .N;
        ELSE H10061=.C;
        N21=6;
    END;
    ELSE IF H10060=3 THEN DO;
        N21=7;
        IF H10061=. THEN H10061 = .N;
        ELSE H10061=.C;
        IF H10062=. THEN H10062=.N;
        ELSE H10062=.C;
    END;
    ELSE IF H10060 IN (.) THEN DO;
        IF H10061=1 THEN DO;
            N21=8;
            H10060=1;
            IF H10062=. THEN H10062 = .N;
            ELSE H10062=.C;
        END;
        ELSE IF H10061=2 AND H10062 IN (2) THEN DO;
            N21=9;
            H10060=1;
            H10062=.;
        END;
        ELSE IF H10061=2 AND H10062 IN (4,3,1,.) THEN DO;
            H10060=1;
            N21=10;
        END;
        ELSE IF H10061=3 THEN DO;
            H10060=1;
            N21=11;
        END;
        ELSE IF H10061=. THEN DO;
            N21=12;
        END;
    END;
END;
END;

```

```
ELSE IF XSEXA=. AND H10060 IN (.) THEN N21=13;
```

```
DROP AGE SEX;
```

```
/** Note 22 -- H10065, H10066: seen doctor 3 or more times for same condition **/
```

```
IF H10065=1 THEN N22=1;  
ELSE IF H10065 IN (2,.) AND H10066 IN (1,2) THEN DO;  
  H10065=1;  
  N22=2;  
END;  
ELSE IF H10065=2 AND H10066 IN (.) THEN DO;  
  H10066=.N;  
  N22=3;  
END;  
ELSE IF H10065=. AND H10066=. THEN N22=4;
```

```
/** Note 23 -- H10067, H10068: need or take medicine prescribed by a doctor **/
```

```
IF H10067=1 THEN N23=1;  
ELSE IF H10067 IN (2,.) AND H10068 IN (1,2) THEN DO;  
  H10067=1;  
  N23=2;  
END;  
ELSE IF H10067=2 AND H10068 IN (.) THEN DO;  
  H10068=.N;  
  N23=3;  
END;  
ELSE IF H10067=. AND H10068=. THEN N23=4;
```

```
/** Note 24 -- H10071, H10071A-H10071E: Hispanic or Latino origin or descent **/
```

```
/* JMA  
****Multiple responses were given to this question so H10071 is being created  
****from the multiple responses.;  
*/
```

```
IF H10071B=1 THEN DO;  
  N24=1;  
  H10071=2;  
END;  
ELSE IF H10071E=1 THEN DO;  
  N24=2;  
  H10071=5;  
END;  
ELSE IF H10071C=1 THEN DO;  
  N24=3;  
  H10071=3;  
END;  
ELSE IF H10071D=1 THEN DO;  
  N24=4;  
  H10071=4;  
END;  
ELSE IF H10071A=1 THEN DO;  
  N24=5;  
  H10071=1;  
END;  
ELSE IF H10071A IN (2,.) AND H10071B IN (2,.) AND H10071C IN (2,.) AND  
  H10071D IN (2,.) AND H10071E IN (2,.) THEN DO;  
  N24=6;  
  H10071=.;  
END;
```

```
NOSURVEY:
```



```

/* missing values */

ARRAY MISS MISS_9 MISS_8 MISS_7 MISS_6 MISS_5 MISS_4 MISS_1 ;
MISS_TOT=0;
DO OVER MISS;
  MISS = 0;
END;
ARRAY MISSARRAY &VARLIST2.;

DO OVER MISSARRAY;
  IF (MISSARRAY EQ -9 ) THEN MISS_9 = MISS_9 + 1;
  ELSE IF (MISSARRAY EQ -8) THEN MISS_8 = MISS_8 + 1;
  ELSE IF (MISSARRAY EQ -7) THEN MISS_7 = MISS_7 + 1;
  ELSE IF (MISSARRAY EQ -6) THEN MISS_6 = MISS_6 + 1;
  ELSE IF (MISSARRAY EQ -5) THEN MISS_5 = MISS_5 + 1;
  ELSE IF (MISSARRAY EQ -4) THEN MISS_4 = MISS_4 + 1;
  ELSE IF (MISSARRAY EQ -1) THEN MISS_1 = MISS_1 + 1;
END;
DO OVER MISS;
  MISS_TOT=MISS_TOT + MISS;
END;

*****;

OUTPUT;

RUN;

proc contents data=out.cschl0q;
run;

```

**F.2.D Q2FY2010\PROGRAMS\CODINGScheme\CSCHEM10Q.FMT - INCLUDE FILE FOR CODING SCHEME FOR QUARTER 2
FY2010.**

/* Formats for original answers to survey questions,
after variables have been recoded */

```

FORMAT H10001   H10001_O YN.

      H10003   H10003_O HPLAN1_.
      H10004   H10004_O HPTIME.

      H10005   H10005_O PLACE.

      H10006   H10006_O   H10009 H10009_O   H10019 H10019_O
      YN.

      H10007   H10007_O OFTEN2_.
      H10008   H10008_O TIME1_.

      H10010   H10010_O OFTEN3_.
      H10011   H10011_O TIME2_.
      H10012   H10012_O OFTEN4_.

      H10013   H10013_O OFTEN4_.
      H10014   H10014_O OFTEN8_.
      H10015   H10015_O YN.
      H10016   H10016_O YNDEF.
      H10017   H10017_O YNDEF.
      H10018   H10018_O RATE3_.

      H10020   H10020_O OFTEN10_.

      H10021-H10024   H10021_O--H10024_O OFTEN5_.

      H10025   H10025_O YN.
      H10026   H10026_O OFTEN8_.
      H10027   H10027_O RATE6_.

      S10009   S10009_O YN.
      S10010   S10010_O PROB1_.

      H10028   H10028_O YN.
      H10029   H10029_O OFTEN9_.
      H10030   H10030_O SPCLST.
      H10031   H10031_O RATE2_.

      S10V19   S10V19_O YNDR.
      S10V20   S10V20_O PROB1_.
      S10V22   S10V22_O YNDR.
      S10V06   S10V06_O PROB6_.
      S10V23   S10V23_O YN.
      S10V24   S10V24_O YN.
      S10V25   S10V25_O S10V25_.
      S10V27   S10V27_O YN.
      S10V28   S10V28_O S10V28_.
      S10V07   S10V07_O PROB7_.
      S10V01   S10V01_O HLTHCARE.
      S10V02   S10V02_O PROB4_.
      S10V05   S10V05_O YNNET.
      S10V09   S10V09_O YNTRI.

      S10B01   S10B01_O MNTLHLTH.
      S10B02   S10B02_O YN.
      S10B03   S10B03_O PROB1_.
      S10B04   S10B04_O RATE5_.

      H10032   H10032_O YN.
      H10033   H10033_O OFTEN11_.
      H10034B  H10034BO YN.
      H10034   H10034_O OFTEN12_.
      H10035   H10035_O YN.
      H10036   H10036_O OFTEN13_.
      H10037   H10037_O YN.

```

H10038 H10038_O OFTEN14_.
H10039 H10039_O YN.
H10040 H10040_O OFTEN15_.
H10041 H10041_O OFTEN15_.
H10042 H10042_O YN.
H10043 H10043_O OFTEN16_.
H10044 H10044_O YNDNK.
H10045 H10045_O OFTEN6_.
H10046 H10046_O OFTEN6_.
H10047 H10047_O RATE4_.
H10048 H10048_O TIME5_.
H10049 H10049_O YNBP_.
H10050 H10050_O TIME7_.
H10051 H10051_O YNDNK.
H10052 H10052_O TIME8_.
H10053 H10053_O OFTEN7_.
H10054 H10054_O OFTEN7_.
H10055 H10055_O OFTEN7_.

S10D03 S10D03_O YNDNK.
S10D02 S10D02_O TIME15_.

H10056 H10056_O SEX.
H10057 H10057_O TIME11_.

H10058 H10058_O H10064 H10064_O
YN.

H10059 H10059_O TIME12_.
H10060 H10060_O YNPREG.
H10061 H10061_O PREG1_.
H10062 H10062_O PREG2_.
H10063 H10063_O HEALTH.

H10065 H10065_O YN.
H10066 H10066_O YN.
H10067 H10067_O YN.

H10068 H10068_O YN.

H10069F H10069FO
H10069I H10069IO
H10070 H10070_O
TIME14_.

SREDA SREDA_O EDUC.

H10071 HISP.

SRAGE SRAGE_O AGEGRP.

H10072 H10072_O MEDA.
H10073 H10073_O MEDB.
H10074 H10074_O MEDSUPP.

S10011 S10011_O AGREE2_.
S10014 S10014_O SATISFY.

MISS_1 MISS_4-MISS_9 MISS_TOT 4.
;

LABEL H10001_O='Are you the person listed on envelope'
H10001 ='Are you the person listed on envelope'
H10002AO='Health plan(s) covered: TRICARE Prime'
H10002A ='Health plan(s) covered: TRICARE Prime'
H10002CO='Health plan(s) covered: TRICARE Ext/Std'
H10002C ='Health plan(s) covered: TRICARE Ext/Std'
H10002NO='Health plan(s) covered: TRICARE Plus'
H10002N ='Health plan(s) covered: TRICARE Plus'
H10002OO='Health plan(s) covered: TRICARE For Life'
H10002O ='Health plan(s) covered: TRICARE For Life'
H10002PO='Health plan(s) covered: TRICARE Supplmntl Ins'

H10002P ='Health plan(s) covered: TRICARE Supplmntl Ins'
H10002QO='Health plan(s) covered: TRICARE Reserve Select'
H10002Q ='Health plan(s) covered: TRICARE Reserve Select'
H10002FO='Health plan(s) covered: Medicare'
H10002F ='Health plan(s) covered: Medicare'
H10002GO='Health plan(s) covered: FEHBP'
H10002G ='Health plan(s) covered: FEHBP'
H10002HO='Health plan(s) covered: Medicaid'
H10002H ='Health plan(s) covered: Medicaid'
H10002IO='Health plan(s) covered: civilian HMO'
H10002I ='Health plan(s) covered: civilian HMO'
H10002JO='Health plan(s) covered: other civilian'
H10002J ='Health plan(s) covered: other civilian'
H10002KO='Health plan(s) covered: USFHP'
H10002K ='Health plan(s) covered: USFHP'
H10002MO='Health plan(s) covered: veterans'
H10002M ='Health plan(s) covered: veterans'
H10002RO='Health plan(s) covered: gov hlth ins-other cntry'
H10002R ='Health plan(s) covered: gov hlth ins-other cntry'
H10002LO='Health plan(s) covered: not sure'
H10002L ='Health plan(s) covered: not sure'
H10003_0='Which health plan did you use most'
H10003 ='Which health plan did you use most'
H10004_0='Yrs in a row with health plan'
H10004 ='Yrs in a row with health plan'
H10005_0='In lst yr:fclty use most for health care'
H10005 ='In lst yr:fclty use most for health care'
H10006_0='In lst yr:ill/injry/cond care right away'
H10006 ='In lst yr:ill/injry/cond care right away'
H10007_0='In lst yr:get urgnt care as soon as wntd'
H10007 ='In lst yr:get urgnt care as soon as wntd'
H10008_0='In lst yr:wait btwn try get care,see prv'
H10008 ='In lst yr:wait btwn try get care,see prv'
H10009_0='In lst yr:make appts non-urgnt hlth care'
H10009 ='In lst yr:make appts non-urgnt hlth care'
H10010_0='In lst yr:non-urg hlth cre appt whn wntd'
H10010 ='In lst yr:non-urg hlth cre appt whn wntd'
H10011_0='In lst yr:days btwn appt & see prvder'
H10011 ='In lst yr:days btwn appt & see prvder'
H10012_0='In lst yr:go to emrgncy rm for own care'
H10012 ='In lst yr:go to emrgncy rm for own care'
H10013_0='In lst yr:go to Dr office/clinic for care'
H10013 ='In lst yr:go to Dr office/clinic for care'
H10014 ='Lst yr: how often talk to doctor about illness prvntn'
H10014_0='Lst yr: how often talk to doctor about illness prvntn'
H10015 ='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H10015_0='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H10016 ='Lst yr: did talk to doctor about pros/cons of trtmnt'
H10016_0='Lst yr: did talk to doctor about pros/cons of trtmnt'
H10017 ='Lst yr: did doctor ask which trtmnt option best for you'
H10017_0='Lst yr: did doctor ask which trtmnt option best for you'
H10018_0='Rating of all health care in lst yr'
H10018 ='Rating of all health care in lst yr'
H10019_0='Have one person think of as personal Dr'
H10019 ='Have one person think of as personal Dr'
H10020 ='Lst yr: how often visit prsnl doctor for care for yourself'
H10020_0='Lst yr: how often visit prsnl doctor for care for yourself'
H10021_0='Lst yr: how oftn Drs listen to you'
H10021 ='Lst yr: how oftn Drs listen to you'
H10022_0='Lst yr: how oftn Drs explain things'
H10022 ='Lst yr: how oftn Drs explain things'
H10023_0='Lst yr: how oftn Drs show respect'
H10023 ='Lst yr: how oftn Drs show respect'
H10024_0='Lst yr: how oftn Drs spend enough time'
H10024 ='Lst yr: how oftn Drs spend enough time'
H10025 ='Lst yr: did get care from doctor other than prsnl doctor'
H10025_0='Lst yr: did get care from doctor other than prsnl doctor'
H10026 ='Lst yr: how often prsnl doctor seemed infrmd of care from other
doctors'
H10026_0='Lst yr: how often prsnl doctor seemed infrmd of care from other
doctors'
H10027_0='Rating of your personal Dr'
H10027 ='Rating of your personal Dr'
H10028 ='Lst yr: did make any appointments to see spclst'

H10028_O='Lst yr: did make any appointments to see spclst'
H10029 ='Lst yr: how often easy to get appointments with splsts'
H10029_O='Lst yr: how often easy to get appointments with splsts'
H10030 ='Lst yr: how many splsts seen'
H10030_O='Lst yr: how many splsts seen'
H10031_O='Rating of specialist seen in lst yr'
H10031 ='Rating of specialist seen in lst yr'
H10032 ='Lst yr: did try to get care, test, or trtmnt through health plan'
H10032_O='Lst yr: did try to get care, test, or trtmnt through health plan'
H10033 ='Lst yr: how often easy to get care, test, or trtmnt'
H10033_O='Lst yr: how often easy to get care, test, or trtmnt'
H10034B ='Lst yr: did look for info from written material/Internet'
H10034BO='Lst yr: did look for info from written material/Internet'
H10034 ='Lst yr: how often written material/Internet provide needed info'
H10034_O='Lst yr: how often written material/Internet provide needed info'
H10035 ='Lst yr: did look for info from health plan on cost of
service/equipment'
H10035_O='Lst yr: did look for info from health plan on cost of
service/equipment'
H10036 ='Lst yr: how often able to find out cost of service/equipment'
H10036_O='Lst yr: how often able to find out cost of service/equipment'
H10037 ='Lst yr: did look for info from health plan on cost of prescription
meds'
H10037_O='Lst yr: did look for info from health plan on cost of prescription
meds'
H10038 ='Lst yr: how often able to find out cost of prescription meds'
H10038_O='Lst yr: how often able to find out cost of prescription meds'
H10039 ='Lst yr: did try to get info/help from health plan's cstmr service'
H10039_O='Lst yr: did try to get info/help from health plan's cstmr service'
H10040 ='Lst yr: how often did cstmr service give needed info/help'
H10040_O='Lst yr: how often did cstmr service give needed info/help'
H10041 ='Lst yr: how often did cstmr service treat with courtes/respect'
H10041_O='Lst yr: how often did cstmr service treat with courtes/respect'
H10042 ='Lst yr: did health plan give any forms to fill out'
H10042_O='Lst yr: did health plan give any forms to fill out'
H10043 ='Lst yr: how often were forms easy to fill out'
H10043_O='Lst yr: how often were forms easy to fill out'
H10044_O='Lst yr: send in any claims'
H10044 ='Lst yr: send in any claims'
H10045 ='Lst yr: how often did health plan handle claims quickly'
H10045_O='Lst yr: how often did health plan handle claims quickly'
H10046_O='Lst yr: how oft handle claims correctly'
H10046 ='Lst yr: how oft handle claims correctly'
H10047 ='Rating of all experience with hlth plan'
H10047_O='Rating of all experience with hlth plan'
H10048_O='Blood pressure: when lst reading'
H10048 ='Blood pressure: when lst reading'
H10049_O='Blood pressure: know if too high or not'
H10049 ='Blood pressure: know if too high or not'
H10050_O='When did you lst have a flu shot'
H10050 ='When did you lst have a flu shot'
H10051 ='Smoked at least 100 cigarettes in life'
H10051_O='Smoked at least 100 cigarettes in life'
H10052 ='Smoke everyday, some days or not at all'
H10052_O='Smoke everyday, some days or not at all'
H10053_O='Lst yr: # visits advised to quit smoking'
H10053 ='Lst yr: # visits advised to quit smoking'
H10054 ='# visits recom medic assist quit smoking'
H10054_O='# visits recom medic assist quit smoking'
H10055 ='# vist discu meth/strag asst quit smokng'
H10055_O='# vist discu meth/strag asst quit smokng'
H10056_O='Are you male or female'
H10056 ='Are you male or female'
H10057_O='Lst have a Pap smear test'
H10057 ='Lst have a Pap smear test'
H10058_O='Are you under age 40'
H10058 ='Are you under age 40'
H10059_O='Lst time: breasts checked mammography'
H10059 ='Lst time: breasts checked mammography'
H10060_O='Been pregnant in lst yr or pregnant now'
H10060 ='Been pregnant in lst yr or pregnant now'
H10061_O='In what trimester is your pregnancy'
H10061 ='In what trimester is your pregnancy'
H10062_O='Trimester first received prenatal care'

H10062 ='Trimester first received prenatal care'
 H10063_O='In gnrl, how would you rate ovrall hlth'
 H10063 ='In gnrl, how would you rate ovrall hlth'
 H10064_O='Impairment/Hlth prblm limit activities'
 H10064 ='Impairment/Hlth prblm limit activities'
 H10065 ='Lst yr: have seen doctor 3 or more times for same condition'
 H10065_O='Lst yr: have seen doctor 3 or more times for same condition'
 H10066 ='Has condition lasted for at least 3 months'
 H10066_O='Has condition lasted for at least 3 months'
 H10067 ='Need to take medicine prescribed by a doctor'
 H10067_O='Need to take medicine prescribed by a doctor'
 H10068 ='Medicine to treat condition that has lasted for at least 3 months'
 H10068_O='Medicine to treat condition that has lasted for at least 3 months'
 H10069FO='Height without shoes (feet)'
 H10069F='Height without shoes (feet)'
 H10069IO='Height without shoes (inches)'
 H10069I='Height without shoes (inches)'
 H10070_O='Weight without shoes'
 H10070 ='Weight without shoes'
 SREDA_O='Highest grade completed'
 SREDA ='Highest grade completed'
 H10071 ='Are you Spanish/Hispanic/Latino'
 H10071AO='Not Spanish/Hispanic/Latino'
 H10071A ='Not Spanish/Hispanic/Latino'
 H10071BO='Mexican, Mexican American, Chicano'
 H10071B ='Mexican, Mexican American, Chicano'
 H10071CO='Puerto Rican'
 H10071C ='Puerto Rican'
 H10071DO='Cuban'
 H10071D ='Cuban'
 H10071EO='Other Spanish, Hispanic, or Latino'
 H10071E ='Other Spanish, Hispanic, or Latino'
 SRRACEAO='Race: White'
 SRRACEA ='Race: White'
 SRRACEBO='Race: Black or African American'
 SRRACEB ='Race: Black or African American'
 SRRACECO='Race: American Indian or Alaska Native'
 SRRACEC ='Race: American Indian or Alaska Native'
 SRRACEDO='Race: Asian'
 SRRACED ='Race: Asian'
 SRRACEEO='Race: Native Hawaiian/other Pacific Isl.'
 SRRACEE ='Race: Native Hawaiian/other Pacific Isl.'
 SRAGE_O='What is your age now'
 SRAGE ='What is your age now'
 H10072 ='Currently Covered Medicare Part A'
 H10072_O='Currently Covered Medicare Part A'
 H10073 ='Currently Covered Medicare Part B'
 H10073_O='Currently Covered Medicare Part B'
 H10074 ='Currently Covered Medicare Supplemental'
 H10074_O='Currently Covered Medicare Supplemental'

S10009_O='Same prsnl doctor/nurse before this hlth plan'
 S10009 ='Same prsnl doctor/nurse before this hlth plan'
 S10010_O='Prblm getting prsnl doctor/nurse you are happy with'
 S10010 ='Prblm getting prsnl doctor/nurse you are happy with'

S10V19_O='Is prsnl doctor/nurse a civilian'
 S10V19 ='Is prsnl doctor/nurse a civilian'
 S10V20_O='Lst yr: how much problem to find prsnl doctor to accept TRICARE'
 S10V20 ='Lst yr: how much problem to find prsnl doctor to accept TRICARE'
 S10V21AO='Prblm finding Dr to accept TRICARE: travel distance too long'
 S10V21A ='Prblm finding Dr to accept TRICARE: travel distance too long'
 S10V21BO='Prblm finding Dr to accept TRICARE: communicating with doctor(s)'
 S10V21B ='Prblm finding Dr to accept TRICARE: communicating with doctor(s)'
 S10V21CO='Prblm finding Dr to accept TRICARE: doctor(s) not taking new patients'
 S10V21C ='Prblm finding Dr to accept TRICARE: doctor(s) not taking new patients'
 S10V21DO='Prblm finding Dr to accept TRICARE: doctor(s) not taking new TRICARE
 patients'
 S10V21D ='Prblm finding Dr to accept TRICARE: doctor(s) not taking new TRICARE
 patients'
 S10V21EO='Prblm finding Dr to accept TRICARE: doctor(s) not accepting TRICARE
 payment'

S10V21E ='Prblm finding Dr to accept TRICARE: doctor(s) not accepting TRICARE
 payment'
 S10V21FO='Prblm finding Dr to accept TRICARE: could not find the specialty I
 wanted'
 S10V21F ='Prblm finding Dr to accept TRICARE: could not find the specialty I
 wanted'
 S10V21GO='Prblm finding Dr to accept TRICARE: did not like doctor(s)'
 S10V21G ='Prblm finding Dr to accept TRICARE: did not like doctor(s)'
 S10V21HO='Prblm finding Dr to accept TRICARE: wait for an appointment was too
 long'
 S10V21H ='Prblm finding Dr to accept TRICARE: wait for an appointment was too
 long'
 S10V21IO='Prblm finding Dr to accept TRICARE: could not find information about
 doctors'
 S10V21I ='Prblm finding Dr to accept TRICARE: could not find information about
 doctors'
 S10V21JO='Prblm finding Dr to accept TRICARE: other'
 S10V21J ='Prblm finding Dr to accept TRICARE: other'
 S10V22_0='Is prsnl doctor/nurse in TRICARE civilian provider network'
 S10V22 ='Is prsnl doctor/nurse in TRICARE civilian provider network'
 S10V06_0='Lst yr: how much problem to find doctor from civilian prvdr ntwk'
 S10V06 ='Lst yr: how much problem to find doctor from civilian prvdr ntwk'
 S10V11AO='Prblm finding Dr from civilian ntwk: travel distance too long'
 S10V11A ='Prblm finding Dr from civilian ntwk: travel distance too long'
 S10V11BO='Prblm finding Dr from civilian ntwk: communicating with doctor(s)'
 S10V11B ='Prblm finding Dr from civilian ntwk: communicating with doctor(s)'
 S10V11CO='Prblm finding Dr from civilian ntwk: doctor(s) not taking new patients'
 S10V11C ='Prblm finding Dr from civilian ntwk: doctor(s) not taking new patients'
 S10V11DO='Prblm finding Dr from civilian ntwk: could not find the specialty I
 wanted'
 S10V11D ='Prblm finding Dr from civilian ntwk: could not find the specialty I
 wanted'
 S10V11EO='Prblm finding Dr from civilian ntwk: did not like doctor(s)'
 S10V11E ='Prblm finding Dr from civilian ntwk: did not like doctor(s)'
 S10V11FO='Prblm finding Dr from civilian ntwk: wait for an appointment was too
 long'
 S10V11F ='Prblm finding Dr from civilian ntwk: wait for an appointment was too
 long'
 S10V11GO='Prblm finding Dr from civilian ntwk: could not find information about
 doctors'
 S10V11G ='Prblm finding Dr from civilian ntwk: could not find information about
 doctors'
 S10V11HO='Prblm finding Dr from civilian ntwk: other'
 S10V11H ='Prblm finding Dr from civilian ntwk: other'
 S10V11IO='Prblm finding Dr from civilian ntwk: doctor's location inconvenient'
 S10V11I ='Prblm finding Dr from civilian ntwk: doctor's location inconvenient'
 S10V23_0='Lst yr: did you see a civilian specialist'
 S10V23 ='Lst yr: did you see a civilian specialist'
 S10V24_0='Lst yr: civilian specialist same as prsnl doctor'
 S10V24 ='Lst yr: civilian specialist same as prsnl doctor'
 S10V25_0='Lst yr: how much problem to find specialist to accept TRICARE'
 S10V25 ='Lst yr: how much problem to find specialist to accept TRICARE'
 S10V26AO='Prblm finding spclst to accept TRICARE: travel distance too long'
 S10V26A ='Prblm finding spclst to accept TRICARE: travel distance too long'
 S10V26BO='Prblm finding spclst to accept TRICARE: communicating with doctor(s)'
 S10V26B ='Prblm finding spclst to accept TRICARE: communicating with doctor(s)'
 S10V26CO='Prblm finding spclst to accept TRICARE: doctor(s) not taking new
 patients'
 S10V26C ='Prblm finding spclst to accept TRICARE: doctor(s) not taking new
 patients'
 S10V26DO='Prblm finding spclst to accept TRICARE: doctor(s) not taking new
 TRICARE patients'
 S10V26D ='Prblm finding spclst to accept TRICARE: doctor(s) not taking new
 TRICARE patients'
 S10V26EO='Prblm finding spclst to accept TRICARE: doctor(s) not accepting TRICARE
 payment'
 S10V26E ='Prblm finding spclst to accept TRICARE: doctor(s) not accepting TRICARE
 payment'
 S10V26FO='Prblm finding spclst to accept TRICARE: could not find the specialty I
 wanted'
 S10V26F ='Prblm finding spclst to accept TRICARE: could not find the specialty I
 wanted'
 S10V26GO='Prblm finding spclst to accept TRICARE: did not like doctor(s)'
 S10V26G ='Prblm finding spclst to accept TRICARE: did not like doctor(s)'

long' S10V26HO='Prblm finding splclst to accept TRICARE: wait for an appointment was too
 long' S10V26H ='Prblm finding splclst to accept TRICARE: wait for an appointment was too
 about doctors' S10V26IO='Prblm finding splclst to accept TRICARE: could not find information
 about doctors' S10V26I ='Prblm finding splclst to accept TRICARE: could not find information
 S10V26JO='Prblm finding splclst to accept TRICARE: other'
 S10V26J ='Prblm finding splclst to accept TRICARE: other'
 S10V27_O='Lst yr: civilian specialist member of civilian network'
 S10V27 ='Lst yr: civilian specialist member of civilian network'
 S10V28_O='Specialty of civilian specialist you saw most often'
 S10V28 ='Specialty of civilian specialist you saw most often'
 S10V07_O='Lst yr: how much problem to find splclst from civilian prvdr ntwk'
 S10V07 ='Lst yr: how much problem to find splclst from civilian prvdr ntwk'
 S10V12AO='Prblm finding splclst from civilian ntwk: travel distance too long'
 S10V12A ='Prblm finding splclst from civilian ntwk: travel distance too long'
 S10V12BO='Prblm finding splclst from civilian ntwk: communicating with doctor(s)'
 S10V12B ='Prblm finding splclst from civilian ntwk: communicating with doctor(s)'
 S10V12CO='Prblm finding splclst from civilian ntwk: doctor(s) not taking new
 patients'
 patients' S10V12C ='Prblm finding splclst from civilian ntwk: doctor(s) not taking new
 S10V12DO='Prblm finding splclst from civilian ntwk: did not like doctor(s)'
 S10V12D ='Prblm finding splclst from civilian ntwk: did not like doctor(s)'
 S10V12EO='Prblm finding splclst from civilian ntwk: wait for an appointment was
 too long'
 too long' S10V12E ='Prblm finding splclst from civilian ntwk: wait for an appointment was
 about doctors' S10V12FO='Prblm finding splclst from civilian ntwk: could not find information
 about doctors' S10V12F ='Prblm finding splclst from civilian ntwk: could not find information
 S10V12GO='Prblm finding splclst from civilian ntwk: other'
 S10V12G ='Prblm finding splclst from civilian ntwk: other'
 S10V12HO='Prblm finding splclst from civilian ntwk: doctor's location
 inconvenient'
 inconvenient' S10V12H ="Prblm finding splclst from civilian ntwk: doctor's location
 S10V01_O='Lst yr: how much hlthcare received from civilian prvdr ntwk'
 S10V01 ='Lst yr: how much hlthcare received from civilian prvdr ntwk'
 S10V02_O='Lst yr: how much problem to get hlthcare from civilian prvdr ntwk'
 S10V02 ='Lst yr: how much problem to get hlthcare from civilian prvdr ntwk'
 S10V05_O='Lst yr: doctor you wanted to see left civilian prvdr ntwk'
 S10V05 ='Lst yr: doctor you wanted to see left civilian prvdr ntwk'
 S10V09_O='Lst yr: doctor you wanted to see not seeing new TRICARE patients'
 S10V09 ='Lst yr: doctor you wanted to see not seeing new TRICARE patients'
 S10B01_O='Self rate of overall mental/emotional health'
 S10B01 ='Self rate of overall mental/emotional health'
 S10B02_O='Lst yr: needed treatmnt/cnslng-prsnl prob'
 S10B02 ='Lst yr: needed treatmnt/cnslng-prsnl prob'
 S10B03_O='Lst yr: prblm gttnng needed treatmnt/cnslng'
 S10B03 ='Lst yr: prblm gttnng needed treatmnt/cnslng'
 S10B04_O='Lst yr: rate of treatmnt/cnslng received'
 S10B04 ='Lst yr: rate of treatmnt/cnslng received'
 S10D02_O='How often currently use smokeless tobacco products'
 S10D02 ='How often currently use smokeless tobacco products'
 S10D03_O='Do you use tobacco products other than cigarettes'
 S10D03 ='Do you use tobacco products other than cigarettes'
 S10011 ='Agree/disagree: able to see provider when needed'
 S10011_O='Agree/disagree: able to see provider when needed'
 S10014 ='How satisfied with health care during last visit'
 S10014_O='How satisfied with health care during last visit'
 N1 = "Coding Scheme Note 1"
 N2 = "Coding Scheme Note 2"
 N3 = "Coding Scheme Note 3"
 N4 = "Coding Scheme Note 4"
 N5 = "Coding Scheme Note 5"
 N6 = "Coding Scheme Note 6"


```

N7 = "Coding Scheme Note 7"
N8 = "Coding Scheme Note 8"
N8A1 = "Coding Scheme Note 8A1"
N9 = "Coding Scheme Note 9"
N10 = "Coding Scheme Note 10"
N10B1= "Coding Scheme Note 10B1"
N10B2= "Coding Scheme Note 10B2"
N10B3= "Coding Scheme Note 10B3"
N10B4= "Coding Scheme Note 10B4"
N10B5= "Coding Scheme Note 10B5"
N10B6= "Coding Scheme Note 10B6"
N10B7= "Coding Scheme Note 10B7"
N10A1= "Coding Scheme Note 10A1"
N11 = "Coding Scheme Note 11"
N11B = "Coding Scheme Note 11B"
N12 = "Coding Scheme Note 12"
N13 = "Coding Scheme Note 13"
N14 = "Coding Scheme Note 14"
N15 = "Coding Scheme Note 15"
N16 = "Coding Scheme Note 16"
N17 = "Coding Scheme Note 17"
N18 = "Coding Scheme Note 18"
N19A = "Coding Scheme Note 19A"
N19B = "Coding Scheme Note 19B"
N20 = "Coding Scheme Note 20"
N21 = "Coding Scheme Note 21"
N22 = "Coding Scheme Note 22"
N23 = "Coding Scheme Note 23"
N24 = "Coding Scheme Note 24"

MISS_1 = "Count of: violates skip pattern"
MISS_4 = "Count of: incomplete grid error"
MISS_5 = "Count of: scalable reponse of don't know"
MISS_6 = "Count of: not applicable - valid skip"
MISS_7 = "Count of: out-of-range error"
MISS_8 = "Count of: multiple response error"
MISS_9 = "Count of: no response - invalid skip"
MISS_TOT = "Total number of missing responses"
XSEXA = "Male or Female - R"
;

```

F.2.E Q3FY2010\PROGRAMS\CODINGScheme\Cschm10Q.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES FOR QUARTER 3 FY2010.

```
*****;
* Program: Cschm10q.sas
* Written: 06/04/2001
* Author: C. Rankin
*
* Input: MERGESYN.sas7bdat - Merged MPR Sampling, DEERS, and Synovate Response Data
* Output: CSCHM10Q.sas7bdat - Coding scheme file
*
* Modified: 9/20/2001 - Recodes removed (stored in recodes_old.sas)
*           10/31/2001 - Revised notes 16 and 17 (became notes 26 and 27)
*           3/22/2002 - Updated Variable names for Q1 2002 and added
*                   Include file RENAME.SAS to change the variable
*                   names from 01 to 02. Skipping 01 designation to make
*                   survey reflect year of fielding
*           5/09/2002 - Change to logic in TFL supplement
*           3/17/2003 - Updated Variables names for Q1 2003
*           4/11/2003 - Added note 19a to accomodate Q1 2003 error where
*                   an option on most of the questionnaires was omitted for
*                   H03062
*           3/28/2008 - Updated Variable names for Q2 FY 2008
*           12/14/2009 - Updated Variable names for Q1 FY 2010
* Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
*           Response Data, check for consistency in responses and skip
*           patterns
* Include
* files: Cschm10q.fmt
*****;
```

```
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
```

```
LIBNAME LIBRARY    "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN        v9 "..\..\DATA\AFINAL";
LIBNAME OUT       v9 "..\..\DATA\AFINAL";
```

```
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM10q;
%LET PERIOD=April, 2009 to March, 2010;
```

```
/* Variable names in survey -- become recoded variables */
```

```
%Let varlist1 =
```

```
H10001 H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
H10002I H10002J H10002K H10002M H10002R H10002L H10003 H10004
H10005 H10006 H10007 H10008 H10009 H10010 H10011 H10012 H10013 H10014
H10015 H10016 H10017 H10018
S10C09 S10C10 S10C11 S10C12 S10C13 S10C14
H10019
S10C01 S10C02 S10C03 S10C04
H10020 H10021 H10022 H10023 H10024 H10025 H10026
S10C06 S10C07 S10C08
H10027
S10009 S10010
H10028 H10029 H10030
S10C05
H10031
S10B01 S10B02 S10B03 S10B04
H10032 H10033 H10034B H10034 H10035 H10036 H10037 H10038 H10039 H10040
H10041 H10042 H10043 H10044 H10045 H10046 H10047 H10048 H10049
S10Q01 S10Q02 S10Q03 S10Q04 S10Q05
H10050 H10051 H10052 H10053 H10054 H10055
S10D03 S10D02 S10D05
H10056 H10057 H10058 H10059 H10060 H10061 H10062 H10063 H10064
S10C15 S10C16 S10C17 S10C18 S10C19
H10065 H10066 H10067 H10068 H10069F H10069I H10070
SREDA H10071A H10071B H10071C H10071D H10071E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE
H10072 H10073 H10074
```

```

S10011 S10014
;

/* _O variables are the original values from the survey response */

%Let varlist2 =
H10001_O H10002AO H10002CO H10002NO H10002OO H10002PO H10002QO H10002FO H10002GO H10002HO
H10002IO H10002JO H10002KO H10002MO H10002RO H10002LO H10003_O H10004_O
H10005_O H10006_O H10007_O H10008_O H10009_O H10010_O H10011_O H10012_O H10013_O H10014_O
H10015_O H10016_O H10017_O H10018_O
S10C09_O S10C10_O S10C11_O S10C12_O S10C13_O S10C14_O
H10019_O
S10C01_O S10C02_O S10C03_O S10C04_O
H10020_O H10021_O H10022_O H10023_O H10024_O H10025_O H10026_O
S10C06_O S10C07_O S10C08_O
H10027_O
S10009_O S10010_O
H10028_O H10029_O H10030_O
S10C05_O
H10031_O
S10B01_O S10B02_O S10B03_O S10B04_O
H10032_O H10033_O H10034BO H10034_O H10035_O H10036_O H10037_O H10038_O H10039_O H10040_O
H10041_O H10042_O H10043_O H10044_O H10045_O H10046_O H10047_O H10048_O H10049_O
S10Q01_O S10Q02_O S10Q03_O S10Q04_O S10Q05_O
H10050_O H10051_O H10052_O H10053_O H10054_O H10055_O
S10D03_O S10D02_O S10D05_O
H10056_O H10057_O H10058_O H10059_O H10060_O H10061_O H10062_O H10063_O H10064_O
S10C15_O S10C16_O S10C17_O S10C18_O S10C19_O
H10065_O H10066_O H10067_O H10068_O H10069FO H10069IO H10070_O
SREDA_O H10071AO H10071BO H10071CO H10071DO H10071EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O
H10072_O H10073_O H10074_O
S10011_O S10014_O
;

TITLE "DoD 2010 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";

DATA MERGESYN;

    SET IN.MERGESYN(RENAME=(H10070 = H10070CH
    ));

/* MER 7/20/10 - Code added for Q3FY2010 to recode */
/* "I don't use other tobacco products" from -7 to -3 */
IF S10D05 = -7 THEN S10D05 = -3;

*****;
* Code added by Jacqueline Agufa 09/15/2004 to fix name of race variable;
*****;

RENAME SRACEA = SRRACEA;
RENAME SRACEB = SRRACEB;
RENAME SRACEC = SRRACEC;
RENAME SRACED = SRRACED;
RENAME SRACEE = SRRACEE;

**** update variables with both filled items and check boxes
**** Per Eric Schone;

IF H10069F LT 1 THEN H10069F=H10069FN;
IF H10069I IN (-9,.) THEN H10069I=H10069IN;

H10070= COMPRESS(H10070CH,' ')*1;

DROP H10070CH;

IF H10070=0 AND H10070N=-9 THEN H10070 =H10070N;

```

```

IF H10070<100 AND H10070N NE -9 THEN H10070 =H10070N;

*** Correct odd height and weights Per Eric Schone;

IF H10069F NOT IN (-9,.) THEN DO;
  IF H10069F < 2 OR
    H10069F > 8
  THEN H10069F= -7;
END;

IF 0 <= H10070 < 40 OR
  H10070 > 500
THEN H10070= -7;

RUN;

DATA OUT.CSCHM10q;

  LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
  INFORMAT &VARLIST2. 4.;
  %INCLUDE "CSCHM10q.FMT";

/* label and format statements for original variables */

  SET MERGESYN;

*****
**** Recodes for invalid responses:*****
*****

/* This is a version of the coding scheme and coding tables for the
  FY 2010 HCSDB Form A.
  The following tables outline the coding of screening questions (skip),
  and subsequent items to be answered (or not answered in a series
  following a skip question.) */

/* First set up new variables that capture the original values */
/* recode the initial numeric values to the SAS numeric values */
/* specified in the coding scheme */

  SEX=PNSEXCD;
  AGE=INPUT(DAGEQY,8.);

  ARRAY RECODE(*) &VARLIST1;
  ARRAY ORIG(*) &VARLIST2;

  DO I = 1 to DIM(ORIG);
    ORIG(I) = RECODE(I);
    IF ORIG(I) < 0 THEN DO;
      IF ORIG(I)= -9 THEN RECODE(I)=.;
      ELSE IF ORIG(I)= -8 THEN RECODE(I)=.A;
      ELSE IF ORIG(I)= -7 THEN RECODE(I)=.O;
      ELSE IF ORIG(I)= -6 THEN RECODE(I)=.N;
      ELSE IF ORIG(I)= -5 THEN RECODE(I)=.D;
      ELSE IF ORIG(I)= -4 THEN RECODE(I)=.I;
      ELSE IF ORIG(I)= -3 THEN RECODE(I)=.T;
      ELSE IF ORIG(I)= -1 THEN RECODE(I)=.C;
      ELSE RECODE(I)=RECODE(I);
    END;
  END;
  DROP I;

/* recode selected responses to be 1=marked, 2=unmarked */

  ARRAY MARKED(*)

```

```
H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
H10002I H10002J H10002K H10002M H10002R H10002L
```

```
H10071A H10071B H10071C H10071D H10071E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
;
```

```
ARRAY INFORMAT(*)
```

```
H10002AO H10002CO H10002NO H10002OO H10002PO H10002QO H10002FO H10002GO H10002HO
H10002IO H10002JO H10002KO H10002MO H10002RO H10002LO
```

```
H10071AO H10071BO H10071CO H10071DO H10071EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO
;
```

```
DO J=1 TO DIM(INFORMAT);
  IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
  ELSE MARKED(J)=2;
END;
DROP J;
```

```
FORMAT
```

```
H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
H10002I H10002J H10002K H10002M H10002R H10002L
```

```
H10071A H10071B H10071C H10071D H10071E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
MARKED.;
```

```
*****;
```

```
/* skip coding scheme for all surveys not returned **/
```

```
IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;
```

```
/** Note 1 -- H10003, H10004 health plan usage **/
```

```
IF H10003 > 0 OR H10003 =.D THEN N1=1;
ELSE IF H10003=.N THEN DO;
  IF H10004 NOT=. THEN DO;
    N1=2;
    H10004=.C;
  END;
ELSE DO;
  N1=3;
  H10004=.N;
END;
ELSE IF H10003=. THEN N1=4;
```

```
/** Note 2 -- H10006,H10007,H10008: illness or injury **/
```

```
ARRAY NOTE2 H10007 H10008;
N2MARK=0;
N2NMISS=0;
N2NN=0;
```

```
DO OVER NOTE2;
  IF NOTE2 NE . THEN N2NMISS+1;
  IF NOTE2 NOT IN (.N,.) THEN N2MARK+1;
  IF NOTE2 EQ .N THEN N2NN+1;
END;
```

```
IF H10006=1 AND N2NMISS=0 THEN DO;
  N2=1;
```

```
END;
```

```
ELSE IF H10006 IN (1,.) AND N2NMISS>0 AND N2MARK=0 THEN DO;
  H10006=2;
  N2=2;
```

```

DO OVER NOTE2;
  IF NOTE2=. THEN NOTE2=.N;
  ELSE NOTE2=.C;
END;
END;
ELSE IF H10006=1 AND N2MARK=1 AND N2NN=1 THEN DO;
  DO OVER NOTE2;
    IF NOTE2=.N THEN NOTE2=.;
  END;
  N2=3;
END;
ELSE IF H10006=1 AND N2MARK>0 THEN DO;
  N2=4;
END;
ELSE IF H10006=2 AND N2MARK=1 AND N2NN=1 THEN DO;
  H10007=.C;
  H10008=.C;
  N2=5;
END;
ELSE IF H10006 IN (2,.) AND N2MARK>0 THEN DO;
  H10006=1;
  N2=6;
  DO OVER NOTE2;
    IF NOTE2=.N THEN NOTE2=.;
  END;
END;
ELSE IF H10006=2 AND (N2NMISS=0 OR (N2NMISS>0 AND N2MARK=0)) THEN DO;
  N2=7;
  DO OVER NOTE2;
    IF NOTE2=. THEN NOTE2=.N;
    ELSE NOTE2=.C;
  END;
END;
ELSE IF H10006=. AND N2NMISS=0 THEN N2=8;

```

```
DROP N2NMISS N2MARK N2NN;
```

```
/** Note 3 -- H10009,H10010,H10011: regular or routine healthcare **/
```

```

ARRAY Note3 H10010 H10011;
N3MARK=0;
N3NMISS=0;
N3NN=0;

```

```

DO OVER Note3;
  IF Note3 NE . THEN N3NMISS+1;
  IF Note3 NOT IN (.N,.) THEN N3MARK+1;
  IF Note3 EQ .N THEN N3NN+1;
END;

```

```

IF H10009=1 AND N3NMISS=0 THEN DO;
  N3=1;
END;
ELSE IF H10009 IN (1,.) AND N3NMISS>0 AND N3MARK=0 THEN DO;
  H10009=2;
  N3=2;
  DO OVER Note3;
    IF Note3=. THEN Note3=.N;
    ELSE Note3=.C;
  END;
END;
ELSE IF H10009=1 AND N3MARK=1 AND N3NN=1 THEN DO;
  DO OVER Note3;
    IF Note3=.N THEN Note3=.;
  END;
  N3=3;
END;
ELSE IF H10009=1 AND N3MARK>0 THEN DO;
  N3=4;
END;
ELSE IF H10009=2 AND N3MARK=1 AND N3NN=1 THEN DO;
  H10010=.C;

```

```

        H10011=.C;
        N3=5;
    END;
ELSE IF H10009 IN (2,.) AND N3MARK>0 THEN DO;
    H10009=1;
    N3=6;
    DO OVER Note3;
        IF Note3=.N THEN Note3=.;
    END;
END;
ELSE IF H10009=2 AND (N3NMISS=0 OR (N3NMISS>0 AND N3MARK=0)) THEN DO;
    N3=7;
    DO OVER Note3;
        IF Note3=. THEN Note3=.N;
        ELSE Note3=.C;
    END;
END;
ELSE IF H10009=. AND N3NMISS=0 THEN N3=8;

DROP N3NMISS N3MARK N3NN;

/** Note 4 -- H10013, H10014-H10018: doctor's office or clinic **/

ARRAY NOTE4 H10014-H10018;

N4MARK=0;
N4NMISS=0;

DO OVER NOTE4;
    IF NOTE4 NE . THEN N4NMISS+1;
    IF NOTE4 NOT IN (., .N) THEN N4MARK+1;
END;

IF H10013=1 THEN DO;
    N4=1;
    DO OVER NOTE4;
        IF NOTE4=. THEN NOTE4=.N;
        ELSE NOTE4=.C;
    END;
END;
ELSE IF H10013 IN (2,3,4,5,6,7,.) AND N4NMISS>0 AND N4MARK=0 THEN DO;
    H10013=1;
    N4=2;
    DO OVER NOTE4;
        IF NOTE4=. THEN NOTE4=.N;
        ELSE NOTE4=.C;
    END;
END;
ELSE IF H10013 IN (2,3,4,5,6,7) AND (N4NMISS=0 OR N4MARK>0) THEN DO;
    DO OVER NOTE4;
        IF NOTE4=.N THEN NOTE4=.;
    END;
    N4=3;
END;
ELSE IF H10013=. AND N4NMISS=0 THEN N4=4;
ELSE IF H10013 IN (.) AND N4MARK>0 THEN DO;
    N4=5;
    DO OVER NOTE4;
        IF NOTE4=.N THEN NOTE4=.;
    END;
END;

DROP N4NMISS N4MARK;

/** Note 5 -- H10015, H10016-H10017: doctor's office or clinic- treatment **/

IF H10015 IN (.N,.C) THEN N5=1;
ELSE IF H10015= 1 THEN N5=2;
ELSE IF H10015 IN (2,.) AND H10016 IN (1,2) THEN DO;
    N5=3;

```

```

        H10015=1;
    END;
    ELSE IF H10015 IN (2,..) AND (H10016 IN (3,4,..) AND H10017 IN (1,2)) THEN DO;
        N5=4;
        H10015=1;
    END;
    ELSE IF H10015 IN (2) AND (H10016 IN (3,4,..) AND H10017 IN (3,4,..)) THEN DO;
        N5=5;
        IF H10016 = . THEN H10016 = .N;
        ELSE H10016 = .C;
        IF H10017 = . THEN H10017 = .N;
        ELSE H10017 = .C;
    END;
    ELSE IF H10015 IN (.) AND (H10016 IN (3,4,..) AND H10017 IN (3,4,..)) THEN DO;
        N5=6;
    END;

```

/** Note 5A1 -- S10C09, S10C10: special medical equipment **/

```

    IF S10C09 = 1 AND S10C10 IN (1,2,3,..) THEN N5A1=1;
    ELSE IF S10C09 IN (1,..) AND S10C10 = .N THEN DO;
        N5A1=2;
        S10C09=2;
        S10C10=.C;
    END;
    ELSE IF S10C09 IN (2,..) AND S10C10 IN (1,2,3) THEN DO;
        N5A1=3;
        S10C09=1;
    END;
    ELSE IF S10C09 = 2 AND S10C10 IN (.N,..) THEN DO;
        N5A1=4;
        IF S10C10 = . THEN S10C10 = .N;
        ELSE S10C10 = .C;
    END;
    ELSE IF S10C09 = . AND S10C10 = . THEN N5A1=5;

```

/** Note 5A2 -- S10C11, S10C12: special therapy **/

```

    IF S10C11 = 1 AND S10C12 IN (1,2,3,..) THEN N5A2=1;
    ELSE IF S10C11 IN (1,..) AND S10C12 = .N THEN DO;
        N5A2=2;
        S10C11=2;
        S10C12=.C;
    END;
    ELSE IF S10C11 IN (2,..) AND S10C12 IN (1,2,3) THEN DO;
        N5A2=3;
        S10C11=1;
    END;
    ELSE IF S10C11 = 2 AND S10C12 IN (.N,..) THEN DO;
        N5A2=4;
        IF S10C12 = . THEN S10C12 = .N;
        ELSE S10C12 = .C;
    END;
    ELSE IF S10C11 = . AND S10C12 = . THEN N5A2=5;

```

/** Note 5A3 -- S10C13, S10C14: home health care **/

```

    IF S10C13 = 1 AND S10C14 IN (1,2,3,..) THEN N5A3=1;
    ELSE IF S10C13 IN (1,..) AND S10C14 = .N THEN DO;
        N5A3=2;
        S10C13=2;
        S10C14=.C;
    END;
    ELSE IF S10C13 IN (2,..) AND S10C14 IN (1,2,3) THEN DO;
        N5A3=3;
        S10C13=1;
    END;
    ELSE IF S10C13 = 2 AND S10C14 IN (.N,..) THEN DO;

```



```

        N5A3=4;
        IF S10C14 = . THEN S10C14 = .N;
        ELSE S10C14 = .C;
    END;
    ELSE IF S10C13 = . AND S10C14 = . THEN N5A3=5;

/** Note 6_Q3 -- H10019, H10020-H10027, S10C01-S10C04, S10C06-S10C08, S10009: personal doctor
**/
/* MER 06/15/10 */

    ARRAY NOTE6a  S10C01-S10C02 H10027;
    ARRAY NOTE6b  S10C04 H10021-H10024;
    ARRAY NOTE6c  S10C03 H10020 H10025-H10026 S10C06-S10C08 S10009;

    N6aMARK=0;
    N6aNMISS=0;
    N6bMARK=0;

    DO OVER NOTE6a;
        IF NOTE6a NE . THEN N6aNMISS+1;
        IF NOTE6a NOT IN (., .N) THEN N6aMARK+1;
    END;

    DO OVER NOTE6b;
        IF NOTE6b NOT IN (., .N) THEN N6bMARK+1;
    END;

    IF H10020 NOT IN (0,.) THEN N6bMARK+1;

    IF H10019 = 1 AND (N6aMARK > 0 OR N6aNMISS = 0) THEN DO;
        N6_Q3=1;
        DO OVER NOTE6a;
            IF NOTE6a=.N THEN NOTE6a=.;
        END;
    END;
    ELSE IF H10019 IN (1,.) AND N6aNMISS > 0 AND N6aMARK = 0 THEN DO;
        N6_Q3=2;
        H10019 = 2;
        DO OVER NOTE6a;
            IF NOTE6a=. THEN NOTE6a=.N;
            ELSE NOTE6a=.C;
        END;
        DO OVER NOTE6b;
            IF NOTE6b=. THEN NOTE6b=.N;
            ELSE NOTE6b=.C;
        END;
        DO OVER NOTE6c;
            IF NOTE6c=. THEN NOTE6c=.N;
            ELSE NOTE6c=.C;
        END;
    END;
    ELSE IF H10019 IN (2,.) AND N6aMARK > 0 THEN DO;
        N6_Q3=3;
        H10019 = 1;
        DO OVER NOTE6a;
            IF NOTE6a=.N THEN NOTE6a=.;
        END;
    END;
    ELSE IF H10019 IN (2,.) AND N6aNMISS = 0 AND N6bMARK > 0 THEN DO;
        N6_Q3=4;
        H10019 = 1;
    END;
    ELSE IF H10019 = 2 AND N6aNMISS = 0 AND N6bMARK = 0 THEN DO;
        N6_Q3=5;
        DO OVER NOTE6a;
            NOTE6a=.N;
        END;
        DO OVER NOTE6b;
            IF NOTE6b=. THEN NOTE6b=.N;
            ELSE NOTE6b=.C;
        END;
        DO OVER NOTE6c;

```

```

        IF NOTE6c=. THEN NOTE6c=.N;
        ELSE NOTE6c=.C;
    END;
END;
ELSE IF H10019 = 2 AND N6aNMISS > 0 AND N6aMARK = 0 THEN DO;
    N6_Q3=6;
    DO OVER NOTE6a;
        IF NOTE6a=. THEN NOTE6a=.N;
        ELSE NOTE6a=.C;
    END;
    DO OVER NOTE6b;
        IF NOTE6b=. THEN NOTE6b=.N;
        ELSE NOTE6b=.C;
    END;
    DO OVER NOTE6c;
        IF NOTE6c=. THEN NOTE6c=.N;
        ELSE NOTE6c=.C;
    END;
END;
ELSE IF H10019 = . AND N6aNMISS = 0 AND N6bMARK = 0 THEN N6_Q3=7;

DROP N6aMARK N6aNMISS N6bMARK;

```

/** Note 6A1 -- S10C03, S10C04: condition that seriously interferes with ability to work **/

```

IF S10C03 IN (.N,.C) AND S10C04 IN (.N,.C) THEN N6A1=1;
ELSE IF S10C03 = 1 AND S10C04 IN (1,2,.) THEN N6A1=2;
ELSE IF S10C03 IN (1,.) AND S10C04 = .N THEN DO;
    N6A1=3;
    S10C03=2;
    S10C04=.C;
END;
ELSE IF S10C03 IN (2,.) AND S10C04 IN (1,2) THEN DO;
    N6A1=4;
    S10C03=1;
END;
ELSE IF S10C03 = 2 AND S10C04 IN (.N,.) THEN DO;
    N6A1=5;
    IF S10C04 = . THEN S10C04 = .N;
    ELSE S10C04 = .C;
END;
ELSE IF S10C03 = . AND S10C04 = . THEN N6A1=6;

```

/** Note 7 -- H10020, H10021-H10026: personal doctor visit **/

```

ARRAY NOTE7 H10021-H10024;

N7MARK=0;
N7NMISS=0;

DO OVER NOTE7;
    IF NOTE7 NE . THEN N7NMISS+1;
    IF NOTE7 NOT IN (., .N) THEN N7MARK+1;
END;

IF H10020 IN (.N, .C) THEN N7=1;
ELSE IF H10020=0 THEN DO;
    N7=2;
    DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
        ELSE NOTE7=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
END;
ELSE IF H10020 IN (1,2,3,4,5,6,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
    H10020=0;
    N7=3;
    DO OVER NOTE7;

```

```

        IF NOTE7=. THEN NOTE7=.N;
        ELSE NOTE7=.C;
    END;
    IF H10025=. THEN H10025=.N;
    ELSE H10025=.C;
    IF H10026=. THEN H10026=.N;
    ELSE H10026=.C;
END;
ELSE IF H10020 IN (1,2,3,4,5,6,..) AND (N7NMISS=0 OR N7MARK>0) THEN DO;
    DO OVER NOTE7;
        IF NOTE7=.N THEN NOTE7=.;
    END;
    N7=4;
END;

DROP N7NMISS N7MARK;

```

/** Note 8 -- H10025, H10026: care from another doctor or healthcare provider **/

```

IF H10025 IN (.N, .C) THEN N8=1;
ELSE IF H10025=1 THEN N8=2;
ELSE IF H10025 IN (2,..) AND H10026 IN (1,2,3,4) THEN DO;
    H10025=1;
    N8=3;
END;
ELSE IF H10025=2 AND H10026 IN (.) THEN DO;
    H10026=.N;
    N8=4;
END;
ELSE IF H10025=. AND H10026=. THEN N8=5;

```

/** Note 8B1 -- S10C06, S10C07-S10C08: decisions about health care **/

```

ARRAY NOTE8B1 S10C07-S10C08;

N8B1MARK=0;
N8B1NMISS=0;

DO OVER NOTE8B1;
    IF NOTE8B1 NOT IN (., .N) THEN N8B1MARK+1;
    IF NOTE8B1 NOT IN (.) THEN N8B1NMISS+1;
END;

IF S10C06 IN (.N,.C) AND S10C07 IN (.N,.C) AND S10C08 IN (.N,.C) THEN N8B1=1;
ELSE IF S10C06 = 1 AND (N8B1MARK > 0 OR N8B1NMISS = 0) THEN DO;
    N8B1=2;
    DO OVER NOTE8B1;
        IF NOTE8B1 = .N THEN NOTE8B1 = .;
    END;
END;
ELSE IF S10C06 IN (1,..) AND N8B1MARK = 0 AND N8B1NMISS > 0 THEN DO;
    N8B1=3;
    S10C06=2;
    DO OVER NOTE8B1;
        IF NOTE8B1 = . THEN NOTE8B1 = .N;
        ELSE NOTE8B1 = .C;
    END;
END;
ELSE IF S10C06 IN (2,..) AND N8B1MARK > 0 THEN DO;
    N8B1=4;
    S10C06=1;
    DO OVER NOTE8B1;
        IF NOTE8B1 = .N THEN NOTE8B1 = .;
    END;
END;
ELSE IF S10C06 = 2 AND N8B1MARK = 0 THEN DO;
    N8B1=5;
    DO OVER NOTE8B1;
        IF NOTE8B1 = . THEN NOTE8B1 = .N;
        ELSE NOTE8B1 = .C;
    END;
END;

```

```

END;
ELSE IF S10C06 = . AND N8B1NMISS = 0 THEN N8B1=6;

DROP N8B1MARK N8B1NMISS;

/** Note 8A1 -- S10009, S10010:  problem getting new personal doctor or nurse **/

IF S10009 IN (.N,.C) THEN N8A1=1; /* MER 07/31/09 gave each S10009 value its own row for
analysis purposes */
ELSE IF S10009=1 THEN DO;
  N8A1=2;
  IF S10010=. THEN S10010=.N;
  ELSE S10010=.C;
END;
ELSE IF S10009=2 THEN N8A1=3;
ELSE IF S10009=. THEN N8A1=4; /* MER 07/31/09 eliminated backward coding for missing S10009
*/

/** Note 9 -- H10028, H10029-H10031:  needed to see a specialist in last 12 months **/

ARRAY NOTE9  H10029 S10C05 H10031;

N9MARK=0;
N9NMISS=0;

DO OVER NOTE9;
  IF NOTE9 NE . THEN N9NMISS+1;
  IF NOTE9 NOT IN (., .N) THEN N9MARK+1;
END;

IF H10030 NE . THEN N9NMISS+1;
IF H10030 NOT IN (.,0) THEN N9MARK+1;

IF H10028 IN (1) THEN DO;
  N9=1;
  IF H10029=.N THEN H10029=.;
END;
ELSE IF H10028 in (2,.) AND N9MARK>0 THEN DO;
  N9=2;
  H10028=1;
  IF H10029=.N THEN H10029=.;
END;
ELSE IF H10028 in (2) THEN DO;
  N9=3;
  DO OVER NOTE9;
    IF NOTE9=. THEN NOTE9=.N;
    ELSE NOTE9=.C;
  END;
  IF H10030=. THEN H10030=.N;
  ELSE H10030=.C;
END;
ELSE IF H10028=. AND N9NMISS>0 AND N9MARK=0 THEN DO;
  N9=4;
  H10028=2;
  DO OVER NOTE9;
    IF NOTE9=. THEN NOTE9=.N;
    ELSE NOTE9=.C;
  END;
  IF H10030=. THEN H10030=.N;
  ELSE H10030=.C;
END;
ELSE IF H10028=. AND N9NMISS=0 THEN N9=5;

DROP N9NMISS N9MARK;

/** Note 10_Q3 -- H10030, S10C05, H10031:  saw a specialist in last 12 months **/

IF H10030 IN (.N,.C) AND S10C05 IN (.N,.C) AND H10031 IN (.N,.C) THEN N10_Q3=1;
ELSE IF H10030 IN (1,2,3,4,5) AND S10C05 IN (1,2,3,4,5,6) THEN DO;
  N10_Q3=2;

```

```

        IF H10031 = .N THEN H10031 = .;
    END;
    ELSE IF H10030 IN (1,2,3,4,5) AND S10C05 = . AND H10031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN
N10_Q3=3;
    ELSE IF H10030 IN (1,2,3,4,5,..) AND S10C05 = . AND H10031 = .N THEN DO;
        N10_Q3=4;
        H10030=0;
        S10C05=.N;
        H10031=.C;
    END;
    ELSE IF H10030 = 0 AND S10C05 IN (1,2,3,4,5,6) AND H10031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN
DO;
        N10_Q3=5;
        H10030=.;
    END;
    ELSE IF H10030 = 0 AND S10C05 IN (1,2,3,4,5,6) AND H10031 = .N THEN DO;
        N10_Q3=6;
        S10C05=.C;
        H10031=.C;
    END;
    ELSE IF H10030 = 0 AND S10C05 = . THEN DO;
        N10_Q3=7;
        S10C05=.N;
        IF H10031 = . THEN H10031 = .N;
        ELSE H10031 = .C;
    END;
    ELSE IF H10030 = . AND S10C05 IN (1,2,3,4,5,6) AND H10031 = .N THEN DO;
        N10_Q3=8;
        H10031=.;
    END;
    ELSE IF H10030 = . AND H10031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN N10_Q3=9;

/** Note 10A1 -- S10B02, S10B03-S10B04: overall mental health */

ARRAY NOTE10A1 S10B03-S10B04;

N10A1MARK=0;
N10A1NMISS=0;

DO OVER NOTE10A1;
    IF NOTE10A1 NE . THEN N10A1NMISS+1;
    IF NOTE10A1 NOT IN (., .N) THEN N10A1MARK+1;
END;

IF S10B02 = 1 THEN DO;
    N10A1=1;
    DO OVER NOTE10A1;
        IF NOTE10A1=.N THEN NOTE10A1=.;
    END;
END;
ELSE IF S10B02 IN (2,..) AND (N10A1MARK>0) THEN DO;
    N10A1=2;
    S10B02=1;
    DO OVER NOTE10A1;
        IF NOTE10A1=.N THEN NOTE10A1=.;
    END;
END;
ELSE IF S10B02=2 AND (N10A1NMISS=0 OR (N10A1NMISS > 0 AND N10A1MARK = 0)) THEN DO;
    N10A1=3;
    DO OVER NOTE10A1;
        IF NOTE10A1 = . THEN NOTE10A1=.N;
        ELSE NOTE10A1 = .C;
    END;
END;
ELSE IF S10B02 IN (.) AND (N10A1NMISS > 0 AND N10A1MARK = 0) THEN DO;
    N10A1=4;
    S10B02=2;
    DO OVER NOTE10A1;
        IF NOTE10A1 = . THEN NOTE10A1=.N;
        ELSE NOTE10A1 = .C;
    END;
END;
ELSE IF S10B02 IN (.) AND N10A1NMISS=0 THEN N10A1=5;

```

```
DROP N10A1NMISS N10A1MARK;
```

```
/** Note 11 -- H10032, H10033: tried to get care, tests, or treatment from health plan**/
```

```
IF H10032=1 AND H10033 IN (1,2,3,4,.) THEN N11=1;
ELSE IF H10032 IN (1,.) AND H10033=.N THEN DO;
  H10032=2;
  H10033=.C;
  N11=2;
END;
ELSE IF H10032 IN (2,.) AND H10033 IN (1,2,3,4) THEN DO;
  H10032=1;
  N11=3;
END;
ELSE IF H10032=2 AND H10033 IN (.,.N) THEN DO;
  IF H10033=. THEN H10033=.N;
  ELSE H10033=.C;
  N11=4;
END;
ELSE IF H10032=. AND H10033=. THEN N11=5;
```

```
/** Note 11B -- H10034B, H10034: look for info in written materials or on internet**/
```

```
IF H10034B=1 AND H10034 IN (1,2,3,4,.) THEN N11B=1;
ELSE IF H10034B IN (1,.) AND H10034=.N THEN DO;
  N11B=2;
  H10034B=2;
  H10034=.C;
END;
ELSE IF H10034B IN (2,.) AND H10034 IN (1,2,3,4) THEN DO;
  N11B=3;
  H10034B=1;
END;
ELSE IF H10034B=2 AND H10034 IN (.,.) THEN DO;
  N11B=4;
  IF H10034=. THEN H10034=.N;
  ELSE H10034=.C;
END;
ELSE IF H10034B=. AND H10034=. THEN N11B=5;
```

```
/** Note 12 -- H10035, H10036: tried to get cost of service/equipment from health plan**/
```

```
IF H10035=1 AND H10036 IN (1,2,3,4,.) THEN N12=1;
ELSE IF H10035 IN (1,.) AND H10036=.N THEN DO;
  H10035=2;
  H10036=.C;
  N12=2;
END;
ELSE IF H10035 IN (2,.) AND H10036 IN (1,2,3,4) THEN DO;
  H10035=1;
  N12=3;
END;
ELSE IF H10035=2 AND H10036 IN (.,.N) THEN DO;
  IF H10036=. THEN H10036=.N;
  ELSE H10036=.C;
  N12=4;
END;
ELSE IF H10035=. AND H10036=. THEN N12=5;
```

```
/** Note 13 -- H10037, H10038: tried to get cost of prescription meds from health plan**/
```

```
IF H10037=1 AND H10038 IN (1,2,3,4,.) THEN N13=1;
ELSE IF H10037 IN (1,.) AND H10038=.N THEN DO;
  H10037=2;
  H10038=.C;
  N13=2;
END;
ELSE IF H10037 IN (2,.) AND H10038 IN (1,2,3,4) THEN DO;
  H10037=1;
  N13=3;
```

```

END;
ELSE IF H10037=2 AND H10038 IN (.,.N) THEN DO;
  IF H10038=. THEN H10038=.N;
  ELSE H10038=.C;
  N13=4;
END;
ELSE IF H10037=. AND H10038=. THEN N13=5;

/** Note 14 -- H10039, H10040-H10041: tried to use health plan's customer service **/

ARRAY NOTE14 H10040-H10041;

N14MARK=0;
N14NMISS=0;

DO OVER NOTE14;
  IF NOTE14 NE . THEN N14NMISS+1;
  IF NOTE14 NOT IN (., .N) THEN N14MARK+1;
END;

IF H10039 = 1 AND (N14MARK>0 OR N14NMISS=0) THEN DO;
  DO OVER NOTE14;
    IF NOTE14=.N THEN NOTE14=.;
  END;
  N14=1;
END;
ELSE IF H10039 IN (1,.) AND (N14NMISS > 0 AND N14MARK = 0) THEN DO;
  N14=2;
  H10039=2;
  DO OVER NOTE14;
    IF NOTE14 = . THEN NOTE14=.N;
    ELSE NOTE14 = .C;
  END;
END;
ELSE IF H10039 IN (2,.) AND (N14MARK>0) THEN DO;
  N14=3;
  H10039=1;
  DO OVER NOTE14;
    IF NOTE14=.N THEN NOTE14=.;
  END;
END;
ELSE IF H10039=2 AND (N14NMISS=0 OR (N14NMISS > 0 AND N14MARK = 0)) THEN DO;
  N14=4;
  DO OVER NOTE14;
    IF NOTE14 = . THEN NOTE14=.N;
    ELSE NOTE14 = .C;
  END;
END;
ELSE IF H10039 IN (.) AND N14NMISS=0 THEN N14=5;

DROP N14NMISS N14MARK;

/** Note 15 -- H10042, H10043: received forms to fill out from health plan **/

IF H10042=1 AND H10043 IN (1,2,3,4,.) THEN N15=1;
ELSE IF H10042 IN (1,.) AND H10043=.N THEN DO;
  H10042=2;
  H10043=.C;
  N15=2;
END;
ELSE IF H10042 IN (2,.) AND H10043 IN (1,2,3,4) THEN DO;
  H10042=1;
  N15=3;
END;
ELSE IF H10042=2 AND H10043 IN (.,.N) THEN DO;
  IF H10043=. THEN H10043=.N;
  ELSE H10043=.C;
  N15=4;
END;
ELSE IF H10042=. AND H10043=. THEN N15=5;

```

```

/** Note 16 -- H10044, H10045-H10046: claims to health plan **/

ARRAY NOTE16 H10045-H10046;
N16MARK=0;
N16NDK=0;

DO OVER NOTE16;
  IF NOTE16 NOT IN (.N,.D,.) THEN N16MARK+1; /* At least one is marked */
  IF NOTE16 NOT IN (.,.D) THEN N16NDK+1; /* All are missing or blank or dnk */
END;

IF H10044=1 AND (N16MARK>0 OR N16NDK=0) THEN DO;
  N16=1;
  DO OVER NOTE16;
    IF NOTE16=.N THEN NOTE16=.;
  END;
END;
ELSE IF H10044 IN (1,.,.D) AND N16MARK=0 AND N16NDK>0 THEN DO;
  N16=2;
  H10044=2;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (2,.,.D) AND N16MARK>0
  THEN DO;
  H10044=1;
  N16=3;
  DO OVER NOTE16;
    IF NOTE16=.N THEN NOTE16=.;
  END;
END;
ELSE IF H10044 IN (2) AND N16MARK=0 THEN DO;
  N16=4;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (.D) AND N16NDK=0 THEN DO;
  N16=5;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (.) AND N16NDK=0 THEN N16=6;

DROP N16MARK N16NDK;

/** NOTE16A1 -- S10Q01, S10Q02: Blood stool test **/

IF S10Q01=1 AND S10Q02 IN (1,2,3,4,.,.D) THEN N16A1=1;
ELSE IF S10Q01 IN (1,.) AND S10Q02=.N THEN DO;
  S10Q01=2;
  S10Q02=.C;
  N16A1=2;
END;
ELSE IF S10Q01 IN (2,.D, .) AND S10Q02 IN (1,2,3,4) THEN DO;
  S10Q01=1;
  N16A1=3;
END;
ELSE IF S10Q01 IN (2, .D) AND S10Q02 IN (.N,.,.D) THEN DO;
  IF S10Q02=. THEN S10Q02=.N;
  ELSE S10Q02=.C;
  N16A1=4;
END;
ELSE IF S10Q01=. AND S10Q02 IN (., .D) THEN N16A1=5;

/** Note 16A2 -- S10Q03, S10Q04-S10Q05: Sigmoidoscopy and colonoscopy **/

```



```

ARRAY NOTE16A2 S10Q04-S10Q05;
N16A2MARK=0;
N16A2NMISS=0;
N16A2DNK=0;

DO OVER NOTE16A2;
  IF NOTE16A2 NE . THEN N16A2NMISS+1;
  IF NOTE16A2 NOT IN (.N,.) THEN N16A2MARK+1;
  IF NOTE16A2 = .D THEN N16A2DNK+1;
END;

IF S10Q03=1 AND (N16A2NMISS=0 OR N16A2MARK>0) THEN N16A2=1;
ELSE IF S10Q03 IN (1,..,D) AND N16A2NMISS>0 AND N16A2MARK=0 THEN DO;
  N16A2=2;
  S10Q03=2;
  DO OVER NOTE16A2;
    IF NOTE16A2=. THEN NOTE16A2=.N;
    ELSE NOTE16A2=.C;
  END;
END;
ELSE IF S10Q03 IN (2,..,D) AND N16A2MARK>N16A2DNK THEN DO;
  N16A2=3;
  S10Q03=1;
END;
ELSE IF S10Q03 = 2 AND N16A2MARK=N16A2DNK THEN DO;
  N16A2=4;
  DO OVER NOTE16A2;
    IF NOTE16A2=. THEN NOTE16A2=.N;
    ELSE NOTE16A2=.C;
  END;
END;
ELSE IF S10Q03 = .D AND (N16A2NMISS=0 OR (N16A2DNK>0 AND N16A2DNK=N16A2MARK)) THEN DO;
  N16A2=5;
  DO OVER NOTE16A2;
    IF NOTE16A2=. THEN NOTE16A2=.N;
    ELSE NOTE16A2=.C;
  END;
END;
ELSE IF S10Q03 = . AND (N16A2NMISS=0 OR (N16A2DNK>0 AND N16A2DNK=N16A2MARK)) THEN N16A2=6;

DROP N16A2NMISS N16A2MARK N16A2DNK;

/** Note 17 -- smoking: H10051, H10052-H10055 **/

ARRAY NOTE17 H10053 H10054 H10055;

IF H10051=1 and H10052 IN (3,4) THEN DO; /* still smoke */
  N17=1;
END;
ELSE IF H10051=1 AND H10052 IN (2,.D) THEN DO; /* quit */
  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
  N17=2;
END;
ELSE IF H10051=1 AND H10052 = . THEN DO; /* don't know */
  N17=3;
END;
ELSE IF H10051 IN (2,.D,.) AND H10052 IN (3,4) THEN DO;
  H10051=1;

  N17=4;
END;
ELSE IF H10051 IN (2,.D) AND H10052 IN (2,.D, .) THEN DO; /*never smoke*/
  /* JMA March 25 2004,
  Updated because H10054 and H10055 have been added to the
  skip pattern */

  IF H10052 NE . THEN H10052 =.C;
  ELSE H10052=.N;

  DO OVER NOTE17;

```

```

        IF NOTE17=. THEN NOTE17=.N;
        ELSE NOTE17=.C;
    END;

    N17=5;
END;
ELSE IF H10051 IN ( .) THEN DO;
    IF (H10052 IN (2,.) AND
        (H10053 IN (2,3,4,5) OR H10054 IN (2,3,4,5) OR H10055 IN (2,3,4,5)))
    THEN DO;
        /* JMA March 25 2004,
           Updated because H10054 and H10055 have been added to the
           skip pattern */

        H10051=1;
        N17=6;
    END;
    ELSE IF H10052 IN (2,.) THEN DO; /*MRE/blank*/
        N17=7;

    END;

    ELSE IF H10052=.D THEN DO; /*MRE/blank*/
        /* JMA March 25 2004,
           Updated because H10054 and H10055 have been added to the
           skip pattern */

        DO OVER NOTE17;
            IF NOTE17=. THEN NOTE17=.N;
            ELSE NOTE17=.C;
        END;

        N17=8;
    END;
END;

/** Note 18 -- advice from doctor on smoking: H10053-H10055 **/

    IF H10053 EQ .N THEN DO;
        /* jma Sep 19 2006 */
        IF H10054 IN (.,.N) THEN H10054 = .N;
        ELSE H10054=.C;
        IF H10055 IN (.,.N) THEN H10055 = .N;
        ELSE H10055=.C;
        N18=1;
    END;
    ELSE IF H10053 EQ .C THEN DO;
        /* jma FEB 19 2008 */
        N18=2;
    END;
    ELSE IF H10053 EQ 1 AND (H10054 =.N AND H10055=.N) THEN DO; /* jma May 10 2007 */
        H10054 = 1;
        H10055 = 1;
        N18=3;
    END;
    ELSE IF H10053 EQ 1 AND (H10054 =.N) THEN DO; /* jma May 10 2007 */
        H10054 = 1;
        N18=4;
    END;
    ELSE IF H10053 EQ 1 AND (H10055=.N) THEN DO; /* jma May 10 2007 */
        H10055 = 1;
        N18=5;
    END;
    ELSE IF H10053 IN (2,3,4,5,.) AND (H10054 =.N AND H10055= .N) THEN DO; /* jma May 10 2007 */
        H10054 = .;
        H10055 = .;
        N18=6;
    END;
    ELSE IF H10053 IN (2,3,4,5,.) AND (H10054 =.N) THEN DO; /* jma May 10 2007 */
        H10054 = .;
        N18=7;
    END;
    ELSE IF H10053 IN (2,3,4,5,.) AND (H10055= .N) THEN DO; /* jma May 10 2007 */
        H10055 = .;
        N18=8;
    END;
END;

```

```

ELSE IF H10053 GE 1 AND (H10054 > H10053 AND H10055 > H10053) THEN DO; /* jma May 10 2007 */
  H10054 = H10053;
  H10055 = H10053;
  N18=9;
END;
ELSE IF H10053 GE 1 AND (H10054 > H10053) THEN DO; /* jma May 10 2007 */
  H10054 = H10053;
  N18=10;
END;
ELSE IF H10053 GE 1 AND (H10055 > H10053) THEN DO; /* jma May 10 2007 */
  H10055 = H10053;
  N18=11;
END;
ELSE IF H10053 GE 1 AND ((H10054 <= H10053 or H10054 = . ) AND (H10055 <= H10053 or
H10055=.)
THEN DO; /* jma Feb 19 2007 */
  N18=12;
END;
ELSE IF (H10053=. AND H10054 IN (1,2,3,4,5,.) AND H10055 IN (1,2,3,4,5,.)
THEN DO; /* jma Feb 19 2007 */
  N18=13;
END;
END;

/** Note 19 - gender H10056, SEX, H10057--H10062,
  XSEXa */

/* 1/21/98 use SRSEX & responses to gender specific questions
  if there is discrepancy between SRSEX and SEX */
/* set imputed FMALE based on gender specific questions */

ARRAY fmaleval H10057 H10058 H10059 H10060 H10061 H10062
;

cntfemale=0;
DO OVER fmaleval; /* mammogram/pap smear/PREGNANT*/
  IF fmaleval>0 THEN cntfemale=cntfemale+1;
END;

IF cntfemale>0 THEN FMALE=1;
ELSE FMALE = 0;

IF H10056=. THEN DO;
  IF (SEX='F' AND FMALE) THEN DO;
    N19a=1;
    XSEXa=2;
  END;
  ELSE IF (SEX='F' AND FMALE=0) THEN DO;
    N19a=2;
    XSEXa=2;
  END;
  ELSE IF (SEX='M' AND FMALE) THEN DO;
    N19a=3;
    XSEXa=1;
  END;
  ELSE IF (SEX='M' AND FMALE=0) THEN DO;
    N19a=4;
    XSEXa=1;
  END;
  ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
    N19a=5;
    XSEXa=2;
  END;
  ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
    N19a=6;
    XSEXa=.;
  END;
  ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
    N19a=7;
    XSEXa=.;
  END;
END;
END;

```

```

ELSE IF (H10056=1) THEN DO;
  IF FMALE=0 THEN DO;
    N19a=8;
    XSEXA=1;
  END;
ELSE IF FMALE THEN DO;
  IF SEX='F' THEN DO;
    N19a=9;
    XSEXA=2;
  END;
ELSE DO;
  N19a=10;
  XSEXA=1;
END;
END;
END;
ELSE IF (H10056=2) THEN DO;
  IF FMALE THEN DO;
    N19a=11;
    XSEXA=2;
  END;
ELSE IF FMALE=0 THEN DO;
  IF SEX='M' THEN DO;
    N19a=12;
    XSEXA=1;
  END;
ELSE DO;
  N19a=13;
  XSEXA=2;
END;
END;
END;

```

/* Note 19b - gender vs mammogram/paps/pregnancy */

```

ARRAY NOTE19b H10057 H10058 H10059 H10060 H10061 H10062
;
IF XSEXA=1 THEN DO; /* male */
  IF FMALE=0 THEN DO;
    N19b=1;
    DO OVER NOTE19b;
      NOTE19b=.N;
    END;
  END; /* valid skip */
ELSE IF FMALE=1 THEN DO;
  N19b=2;
  DO OVER NOTE19b;
    IF NOTE19b=. THEN NOTE19b = .N;
    ELSE NOTE19b=.C;
  END;
END; /* inconsistent response */
END;
ELSE IF XSEXA=2 THEN N19b=3; /* female */
ELSE IF XSEXA=. THEN DO; /* missing sex */
  N19b=4;
  DO OVER NOTE19b;
    NOTE19b=.;
  END;
END;
END;

```

DROP FMALE CNTFMALE;

/* Note 20- breast exam for female 40 or over */

```

IF XSEXA=1 THEN DO; /* male */
  IF (H10058=.C OR H10058=.N) AND (H10059=.C OR H10059=.N)
  THEN N20 = 1;
END;
ELSE IF XSEXA=2 THEN DO;
  IF H10058=2 THEN N20=2; /* female 40 or over */
  ELSE IF H10058=1 THEN DO; /* female < 40 */

```

```

        IF H10059 NE . THEN H10059=.C;
        ELSE H10059=.N;
        N20=3;
    END;
    ELSE IF H10058=. THEN DO;
        IF H10059 NE . THEN DO;
            H10058=2;
            N20=4;
        END;
        ELSE IF H10059=. THEN DO;
            IF AGE<40 THEN DO;
                H10058 = 1;
                H10059=.N;
                N20=5;
            END;
            ELSE IF AGE >= 40 THEN DO;
                H10058=2;
                N20=6;
            END;
            ELSE IF AGE=. THEN N20=7;
        END;
    END;
END;
ELSE IF XSEXA=. THEN N20=8;

```

/* Note 21 - gender vs Pregnancy */

```

IF XSEXA=1 THEN N21=1;          /* male */
ELSE IF XSEXA=2 THEN DO;      /* female */
    IF H10060=1 THEN DO;      /* pregnant */
        IF H10061=1 THEN DO;
            N21=2;
            IF H10062=. THEN H10062 = .N;
            ELSE H10062=.C;
        END;
        ELSE IF H10061=2 AND H10062 IN (2) THEN DO;
            N21=3;
            H10062=.;
        END;
        ELSE IF H10061=2 AND H10062 IN (4,3,1,.) THEN DO;
            N21=4;
        END;
        ELSE IF H10061 IN (3,.) THEN N21=5;
    END;
    ELSE IF H10060=2 THEN DO;
        IF H10061=. THEN H10061 = .N;
        ELSE H10061=.C;
        N21=6;
    END;
    ELSE IF H10060=3 THEN DO;
        N21=7;
        IF H10061=. THEN H10061 = .N;
        ELSE H10061=.C;
        IF H10062=. THEN H10062=.N;
        ELSE H10062=.C;
    END;
    ELSE IF H10060 IN (.) THEN DO;
        IF H10061=1 THEN DO;
            N21=8;
            H10060=1;
            IF H10062=. THEN H10062 = .N;
            ELSE H10062=.C;
        END;
        ELSE IF H10061=2 AND H10062 IN (2) THEN DO;
            N21=9;
            H10060=1;
            H10062=.;
        END;
        ELSE IF H10061=2 AND H10062 IN (4,3,1,.) THEN DO;
            H10060=1;
            N21=10;
        END;
    END;

```

```

        END;
        ELSE IF H10061=3 THEN DO;
            H10060=1;
            N21=11;
        END;
        ELSE IF H10061=. THEN DO;
            N21=12;
        END;
    END;
END;
ELSE IF XSEXA=. AND H10060 IN (.) THEN N21=13;

DROP AGE SEX;

/** Note 21A1 -- H10064, S10C15-S10C16: limited because of any impairment or health problem **/
IF H10064 = 1 THEN N21A1=1;
ELSE IF H10064 IN (2,.) AND (S10C15 = 1 OR S10C16 = 1) THEN DO;
    N21A1=2;
    H10064=1;
END;
ELSE IF H10064 = 2 THEN DO;
    N21A1=3;
    IF S10C15=. THEN S10C15=.N;
    ELSE S10C15=.C;
    IF S10C16=. THEN S10C16=.N;
    ELSE S10C16=.C;
END;
ELSE IF H10064 = . THEN N21A1=4;

/** Note 22 -- H10065, H10066: seen doctor 3 or more times for same condition **/
IF H10065=1 THEN N22=1;
ELSE IF H10065 IN (2,.) AND H10066 IN (1,2) THEN DO;
    H10065=1;
    N22=2;
END;
ELSE IF H10065=2 AND H10066 IN (.) THEN DO;
    H10066=.N;
    N22=3;
END;
ELSE IF H10065=. AND H10066=. THEN N22=4;

/** Note 23 -- H10067, H10068: need or take medicine prescribed by a doctor **/
IF H10067=1 THEN N23=1;
ELSE IF H10067 IN (2,.) AND H10068 IN (1,2) THEN DO;
    H10067=1;
    N23=2;
END;
ELSE IF H10067=2 AND H10068 IN (.) THEN DO;
    H10068=.N;
    N23=3;
END;
ELSE IF H10067=. AND H10068=. THEN N23=4;

/** Note 24 -- H10071, H10071A-H10071E: Hispanic or Latino origin or descent **/
/* JMA
****Multiple responses were given to this question so H10071 is being created
****from the multiple responses.;
*/

IF H10071B=1 THEN DO;
    N24=1;
    H10071=2;
END;

```

```

ELSE IF H10071E=1 THEN DO;
  N24=2;
  H10071=5;
END;
ELSE IF H10071C=1 THEN DO;
  N24=3;
  H10071=3;
END;
ELSE IF H10071D=1 THEN DO;
  N24=4;
  H10071=4;
END;
ELSE IF H10071A=1 THEN DO;
  N24=5;
  H10071=1;
END;
ELSE IF H10071A IN (2,.) AND H10071B IN (2,.) AND H10071C IN (2,.) AND
  H10071D IN (2,.) AND H10071E IN (2,.) THEN DO;
  N24=6;
  H10071=.;
END;

END;

NOSURVEY:

/* missing values */

ARRAY MISS MISS_9 MISS_7 MISS_6 MISS_5 MISS_4 MISS_3 MISS_1 ;
MISS_TOT=0;
DO OVER MISS;
  MISS = 0;
END;
ARRAY MISSARRAY &VARLIST2.;

DO OVER MISSARRAY;
  IF (MISSARRAY EQ -9 ) THEN MISS_9 = MISS_9 + 1;
  ELSE IF (MISSARRAY EQ -7) THEN MISS_7 = MISS_7 + 1;
  ELSE IF (MISSARRAY EQ -6) THEN MISS_6 = MISS_6 + 1;
  ELSE IF (MISSARRAY EQ -5) THEN MISS_5 = MISS_5 + 1;
  ELSE IF (MISSARRAY EQ -4) THEN MISS_4 = MISS_4 + 1;
  ELSE IF (MISSARRAY EQ -3) THEN MISS_3 = MISS_3 + 1;
  ELSE IF (MISSARRAY EQ -1) THEN MISS_1 = MISS_1 + 1;
END;
DO OVER MISS;
  MISS_TOT=MISS_TOT + MISS;
END;

*****;

OUTPUT;

RUN;

proc contents data=out.cschm10q;
run;

```

**F.2.F Q3FY2010\PROGRAMS\CODINGScheme\CSCHEM10Q.FMT - INCLUDE FILE FOR CODING SCHEME FOR QUARTER 3
FY2010.**

/* Formats for original answers to survey questions,
after variables have been recoded */

```

FORMAT H10001  H10001_O YN.

H10003  H10003_O HPLAN1_.
H10004  H10004_O HPTIME.

H10005  H10005_O PLACE.

H10006 H10006_O  H10009 H10009_O  H10019 H10019_O
      YN.

H10007  H10007_O OFTEN2_.
H10008  H10008_O TIME1_.

H10010  H10010_O OFTEN3_.
H10011  H10011_O TIME2_.
H10012  H10012_O OFTEN4_.

H10013  H10013_O OFTEN4_.
H10014  H10014_O OFTEN8_.
H10015  H10015_O YN.
H10016  H10016_O YNDEF.
H10017  H10017_O YNDEF.
H10018  H10018_O RATE3_.

S10C09  S10C09_O YN.
S10C10  S10C10_O S10C10_.
S10C11  S10C11_O YN.
S10C12  S10C12_O S10C12_.
S10C13  S10C13_O YN.
S10C14  S10C14_O S10C14_.

S10C01  S10C01_O S10C01_.
S10C02  S10C02_O S10C02_.
S10C03  S10C03_O YN.
S10C04  S10C04_O S10C04_.

S10C06  S10C06_O YN.
S10C07 S10C07_O S10C08 S10C08_O S10C07_.

H10020  H10020_O OFTEN10_.

H10021-H10024  H10021_O--H10024_O OFTEN5_.

H10025  H10025_O YN.
H10026  H10026_O OFTEN8_.
H10027  H10027_O RATE6_.

S10009  S10009_O YN.
S10010  S10010_O PROB1_.

H10028  H10028_O YN.
H10029  H10029_O OFTEN9_.
H10030  H10030_O SPCLST.

S10C05  S10C05_O OFTEN17_.

H10031  H10031_O RATE2_.

S10B01 S10B01_O MNTLHLTH.
S10B02 S10B02_O YN.
S10B03 S10B03_O PROB1_.
S10B04 S10B04_O RATE5_.

H10032  H10032_O YN.
H10033  H10033_O OFTEN11_.
H10034B H10034BO YN.
H10034  H10034_O OFTEN12_.

```


H10035 H10035_O YN.
H10036 H10036_O OFTEN13_.
H10037 H10037_O YN.
H10038 H10038_O OFTEN14_.
H10039 H10039_O YN.
H10040 H10040_O OFTEN15_.
H10041 H10041_O OFTEN15_.
H10042 H10042_O YN.
H10043 H10043_O OFTEN16_.
H10044 H10044_O YNDNK.
H10045 H10045_O OFTEN6_.
H10046 H10046_O OFTEN6_.
H10047 H10047_O RATE4_.
H10048 H10048_O TIME5_.
H10049 H10049_O YNBP_.

S10Q01 S10Q01_O YNDNK.
S10Q02 S10Q02_O COLON1_.
S10Q03 S10Q03_O YNDNK.
S10Q04 S10Q04_O COLON2_.
S10Q05 S10Q05_O COLON3_.

H10050 H10050_O TIME7_.
H10051 H10051_O YNDNK.
H10052 H10052_O TIME8_.
H10053 H10053_O OFTEN7_.
H10054 H10054_O OFTEN7_.
H10055 H10055_O OFTEN7_.

S10D03 S10D03_O YNDNK.
S10D02 S10D02_O TIME15_.
S10D05 S10D05_O VISIT2_.

H10056 H10056_O SEX.
H10057 H10057_O TIME11_.

H10058 H10058_O H10064 H10064_O
YN.

H10059 H10059_O TIME12_.
H10060 H10060_O YNPREG.
H10061 H10061_O PREG1_.
H10062 H10062_O PREG2_.
H10063 H10063_O HEALTH.

S10C15 S10C15_O YN.
S10C16 S10C16_O YN.
S10C17 S10C17_O YN.
S10C18 S10C18_O RATE4_.
S10C19 S10C19_O YN.

H10065 H10065_O YN.
H10066 H10066_O YN.
H10067 H10067_O YN.

H10068 H10068_O YN.

H10069F H10069FO
H10069I H10069IO
H10070 H10070_O
TIME14_.

SREDA SREDA_O EDUC.

H10071 HISP.

SRAGE SRAGE_O AGEGRP.

H10072 H10072_O MEDA.
H10073 H10073_O MEDB.
H10074 H10074_O MEDSUPP.

S10011 S10011_O AGREE2_.
S10014 S10014_O SATISFY.

MISS_1 MISS_3-MISS_7 MISS_9 MISS_TOT 4.

;

LABEL H10001_0='Are you the person listed on envelope'
H10001 ='Are you the person listed on envelope'
H10002AO='Health plan(s) covered: TRICARE Prime'
H10002A ='Health plan(s) covered: TRICARE Prime'
H10002CO='Health plan(s) covered: TRICARE Ext/Stnd'
H10002C ='Health plan(s) covered: TRICARE Ext/Stnd'
H10002NO='Health plan(s) covered: TRICARE Plus'
H10002N ='Health plan(s) covered: TRICARE Plus'
H1000200='Health plan(s) covered: TRICARE For Life'
H10002O ='Health plan(s) covered: TRICARE For Life'
H10002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
H10002P ='Health plan(s) covered: TRICARE Supplmntl Ins'
H10002QO='Health plan(s) covered: TRICARE Reserve Select'
H10002Q ='Health plan(s) covered: TRICARE Reserve Select'
H10002FO='Health plan(s) covered: Medicare'
H10002F ='Health plan(s) covered: Medicare'
H10002GO='Health plan(s) covered: FEHBP'
H10002G ='Health plan(s) covered: FEHBP'
H10002HO='Health plan(s) covered: Medicaid'
H10002H ='Health plan(s) covered: Medicaid'
H10002IO='Health plan(s) covered: civilian HMO'
H10002I ='Health plan(s) covered: civilian HMO'
H10002JO='Health plan(s) covered: other civilian'
H10002J ='Health plan(s) covered: other civilian'
H10002KO='Health plan(s) covered: USFHP'
H10002K ='Health plan(s) covered: USFHP'
H10002MO='Health plan(s) covered: veterans'
H10002M ='Health plan(s) covered: veterans'
H10002RO='Health plan(s) covered: gov hlth ins-other cntry'
H10002R ='Health plan(s) covered: gov hlth ins-other cntry'
H10002LO='Health plan(s) covered: not sure'
H10002L ='Health plan(s) covered: not sure'
H10003_0='Which health plan did you use most'
H10003 ='Which health plan did you use most'
H10004_0='Yrs in a row with health plan'
H10004 ='Yrs in a row with health plan'
H10005_0='In lst yr:fclty use most for health care'
H10005 ='In lst yr:fclty use most for health care'
H10006_0='In lst yr:ill/injry/cond care right away'
H10006 ='In lst yr:ill/injry/cond care right away'
H10007_0='In lst yr:get urgnt care as soon as wntd'
H10007 ='In lst yr:get urgnt care as soon as wntd'
H10008_0='In lst yr:wait btwn try get care,see prv'
H10008 ='In lst yr:wait btwn try get care,see prv'
H10009_0='In lst yr:make appts non-urgnt hlth care'
H10009 ='In lst yr:make appts non-urgnt hlth care'
H10010_0='In lst yr:non-urg hlth cre appt whn wntd'
H10010 ='In lst yr:non-urg hlth cre appt whn wntd'
H10011_0='In lst yr:days btwn appt & see prvdr'
H10011 ='In lst yr:days btwn appt & see prvdr'
H10012_0='In lst yr:go to emrgncy rm for own care'
H10012 ='In lst yr:go to emrgncy rm for own care'
H10013_0='In lst yr:go to Dr office/clinic for care'
H10013 ='In lst yr:go to Dr office/clinic for care'
H10014 ='Lst yr: how often talk to doctor about illness prvntn'
H10014_0='Lst yr: how often talk to doctor about illness prvntn'
H10015 ='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H10015_0='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H10016 ='Lst yr: did talk to doctor about pros/cons of trtmnt'
H10016_0='Lst yr: did talk to doctor about pros/cons of trtmnt'
H10017 ='Lst yr: did doctor ask which trtmnt option best for you'
H10017_0='Lst yr: did doctor ask which trtmnt option best for you'
H10018_0='Rating of all health care in lst yr'
H10018 ='Rating of all health care in lst yr'
H10019_0='Have one person think of as personal Dr'
H10019 ='Have one person think of as personal Dr'
H10020 ='Lst yr: how often visit prsnl doctor for care for yourself'
H10020_0='Lst yr: how often visit prsnl doctor for care for yourself'

H10021_0='Lst yr: how oftn Drs listen to you'
H10021 ='Lst yr: how oftn Drs listen to you'
H10022_0='Lst yr: how oftn Drs explain things'
H10022 ='Lst yr: how oftn Drs explain things'
H10023_0='Lst yr: how oftn Drs show respect'
H10023 ='Lst yr: how oftn Drs show respect'
H10024_0='Lst yr: how oftn Drs spend enough time'
H10024 ='Lst yr: how oftn Drs spend enough time'
H10025 ='Lst yr: did get care from doctor other than prsnl doctor'
H10025_0='Lst yr: did get care from doctor other than prsnl doctor'
H10026 ='Lst yr: how often prsnl doctor seemed infrmd of care from other
doctors'
H10026_0='Lst yr: how often prsnl doctor seemed infrmd of care from other
doctors'
H10027_0='Rating of your personal Dr'
H10027 ='Rating of your personal Dr'
H10028 ='Lst yr: did make any appointments to see spclst'
H10028_0='Lst yr: did make any appointments to see spclst'
H10029 ='Lst yr: how often easy to get appointments with spclsts'
H10029_0='Lst yr: how often easy to get appointments with spclsts'
H10030 ='Lst yr: how many spclsts seen'
H10030_0='Lst yr: how many spclsts seen'
H10031_0='Rating of specialist seen in lst yr'
H10031 ='Rating of specialist seen in lst yr'
H10032 ='Lst yr: did try to get care, test, or trtmnt through health plan'
H10032_0='Lst yr: did try to get care, test, or trtmnt through health plan'
H10033 ='Lst yr: how often easy to get care, test, or trtmnt'
H10033_0='Lst yr: how often easy to get care, test, or trtmnt'
H10034B='Lst yr: did look for info from written material/Internet'
H10034B0='Lst yr: did look for info from written material/Internet'
H10034 ='Lst yr: how often written material/Internet provide needed info'
H10034_0='Lst yr: how often written material/Internet provide needed info'
H10035 ='Lst yr: did look for info from health plan on cost of
service/equipment'
H10035_0='Lst yr: did look for info from health plan on cost of
service/equipment'
H10036 ='Lst yr: how often able to find out cost of service/equipment'
H10036_0='Lst yr: how often able to find out cost of service/equipment'
H10037 ='Lst yr: did look for info from health plan on cost of prescription
meds'
H10037_0='Lst yr: did look for info from health plan on cost of prescription
meds'
H10038 ='Lst yr: how often able to find out cost of prescription meds'
H10038_0='Lst yr: how often able to find out cost of prescription meds'
H10039 ="Lst yr: did try to get info/help from health plan's cstmr service"
H10039_0="Lst yr: did try to get info/help from health plan's cstmr service"
H10040 ='Lst yr: how often did cstmr service give needed info/help'
H10040_0='Lst yr: how often did cstmr service give needed info/help'
H10041 ='Lst yr: how often did cstmr service treat with courtesy/respect'
H10041_0='Lst yr: how often did cstmr service treat with courtesy/respect'
H10042 ='Lst yr: did health plan give any forms to fill out'
H10042_0='Lst yr: did health plan give any forms to fill out'
H10043 ='Lst yr: how often were forms easy to fill out'
H10043_0='Lst yr: how often were forms easy to fill out'
H10044_0='Lst yr: send in any claims'
H10044 ='Lst yr: send in any claims'
H10045 ='Lst yr: how often did health plan handle claims quickly'
H10045_0='Lst yr: how often did health plan handle claims quickly'
H10046_0='Lst yr: how oftn handle claims correctly'
H10046 ='Lst yr: how oftn handle claims correctly'
H10047 ='Rating of all experience with hlth plan'
H10047_0='Rating of all experience with hlth plan'
H10048_0='Blood pressure: when lst reading'
H10048 ='Blood pressure: when lst reading'
H10049_0='Blood pressure: know if too high or not'
H10049 ='Blood pressure: know if too high or not'
H10050_0='When did you lst have a flu shot'
H10050 ='When did you lst have a flu shot'
H10051 ='Smoked at least 100 cigarettes in life'
H10051_0='Smoked at least 100 cigarettes in life'
H10052 ='Smoke everyday, some days or not at all'
H10052_0='Smoke everyday, some days or not at all'
H10053_0='Lst yr: # visits advised to quit smoking'
H10053 ='Lst yr: # visits advised to quit smoking'

H10054 = '# visits recom medic assist quit smoking'
H10054_O = '# visits recom medic assist quit smoking'
H10055 = '# vist discu meth/strag asst quit smokng'
H10055_O = '# vist discu meth/strag asst quit smokng'
H10056_O = 'Are you male or female'
H10056 = 'Are you male or female'
H10057_O = 'Lst have a Pap smear test'
H10057 = 'Lst have a Pap smear test'
H10058_O = 'Are you under age 40'
H10058 = 'Are you under age 40'
H10059_O = 'Lst time: breasts checked mammography'
H10059 = 'Lst time: breasts checked mammography'
H10060_O = 'Been pregnant in lst yr or pregnant now'
H10060 = 'Been pregnant in lst yr or pregnant now'
H10061_O = 'In what trimester is your pregnancy'
H10061 = 'In what trimester is your pregnancy'
H10062_O = 'Trimester first received prenatal care'
H10062 = 'Trimester first received prenatal care'
H10063_O = 'In gnrl, how would you rate ovrall hlth'
H10063 = 'In gnrl, how would you rate ovrall hlth'
H10064_O = 'Impairment/Hlth prblm limit activities'
H10064 = 'Impairment/Hlth prblm limit activities'
H10065 = 'Lst yr: have seen doctor 3 or more times for same condition'
H10065_O = 'Lst yr: have seen doctor 3 or more times for same condition'
H10066 = 'Has condition lasted for at least 3 months'
H10066_O = 'Has condition lasted for at least 3 months'
H10067 = 'Need to take medicine prescribed by a doctor'
H10067_O = 'Need to take medicine prescribed by a doctor'
H10068 = 'Medicine to treat condition that has lasted for at least 3 months'
H10068_O = 'Medicine to treat condition that has lasted for at least 3 months'
H10069FO = 'Height without shoes (feet)'
H10069F = 'Height without shoes (feet)'
H10069IO = 'Height without shoes (inches)'
H10069I = 'Height without shoes (inches)'
H10070_O = 'Weight without shoes'
H10070 = 'Weight without shoes'
SREDA_O = 'Highest grade completed'
SREDA = 'Highest grade completed'
H10071 = 'Are you Spanish/Hispanic/Latino'
H10071AO = 'Not Spanish/Hispanic/Latino'
H10071A = 'Not Spanish/Hispanic/Latino'
H10071BO = 'Mexican, Mexican American, Chicano'
H10071B = 'Mexican, Mexican American, Chicano'
H10071CO = 'Puerto Rican'
H10071C = 'Puerto Rican'
H10071DO = 'Cuban'
H10071D = 'Cuban'
H10071EO = 'Other Spanish, Hispanic, or Latino'
H10071E = 'Other Spanish, Hispanic, or Latino'
SRRACEAO = 'Race: White'
SRRACEA = 'Race: White'
SRRACEBO = 'Race: Black or African American'
SRRACEB = 'Race: Black or African American'
SRRACECO = 'Race: American Indian or Alaska Native'
SRRACEC = 'Race: American Indian or Alaska Native'
SRRACEDO = 'Race: Asian'
SRRACED = 'Race: Asian'
SRRACEEO = 'Race: Native Hawaiian/other Pacific Isl.'
SRRACEE = 'Race: Native Hawaiian/other Pacific Isl.'
SRAGE_O = 'What is your age now'
SRAGE = 'What is your age now'
H10072 = 'Currently Covered Medicare Part A'
H10072_O = 'Currently Covered Medicare Part A'
H10073 = 'Currently Covered Medicare Part B'
H10073_O = 'Currently Covered Medicare Part B'
H10074 = 'Currently Covered Medicare Supplemental'
H10074_O = 'Currently Covered Medicare Supplemental'

S10C01_O = 'Is prsnl doctor a general doctor, specialist, physician asst, or nurse'
S10C01 = 'Is prsnl doctor a general doctor, specialist, physician asst, or nurse'
S10C02_O = 'How long have you been going to your prsnl doctor or nurse'
S10C02 = 'How long have you been going to your prsnl doctor or nurse'
S10C03_O = 'Do you have physcl or mental condtn that interferes with ably to work'
S10C03 = 'Do you have physcl or mental condtn that interferes with ably to work'

S10C04_0='Does prsnl doctor or nurse understand how hlth prblms affect your life'
S10C04 ='Does prsnl doctor or nurse understand how hlth prblms affect your life'
S10C05_0='Lst yr: How many times did you go to splsts for care for yourself'
S10C05 ='Lst yr: How many times did you go to splsts for care for yourself'
S10C06_0='Lst yr: Were any decisions made about your health care'
S10C06 ='Lst yr: Were any decisions made about your health care'
S10C07_0='Lst yr: How often were you involved as much as you wanted in decisions'
S10C07 ='Lst yr: How often were you involved as much as you wanted in decisions'
S10C08_0='Lst yr: How often was it easy to get your doctors to agree with you'
S10C08 ='Lst yr: How often was it easy to get your doctors to agree with you'
S10C09_0='Lst yr: Did you need special medical equipment'
S10C09 ='Lst yr: Did you need special medical equipment'
S10C10_0='Lst yr: How much of a problem was it to get special medical equipment'
S10C10 ='Lst yr: How much of a problem was it to get special medical equipment'
S10C11_0='Lst yr: Did you need special therapy'
S10C11 ='Lst yr: Did you need special therapy'
S10C12_0='Lst yr: How much of a problem was it to get special therapy'
S10C12 ='Lst yr: How much of a problem was it to get special therapy'
S10C13_0='Lst yr: Did you need home health care or assistance'
S10C13 ='Lst yr: Did you need home health care or assistance'
S10C14_0='Lst yr: How much of a problem was it to get home health care'
S10C14 ='Lst yr: How much of a problem was it to get home health care'
S10C15_0='Do you need the help of other persons with your personal care needs'
S10C15 ='Do you need the help of other persons with your personal care needs'
S10C16_0='Do you need help with your routine needs'
S10C16 ='Do you need help with your routine needs'
S10C17_0='Do you have physicl or mental condtn that interferes with your
indpndnce'
S10C17 ='Do you have physicl or mental condtn that interferes with your
indpndnce'
S10C18_0='Rating of hlth plan in providing equipment, services, and help you
need'
S10C18 ='Rating of hlth plan in providing equipment, services, and help you
need'
S10C19_0='Lst yr: Have you been a patient in a hospital overnight or longer'
S10C19 ='Lst yr: Have you been a patient in a hospital overnight or longer'
S10009_0='Same prsnl doctor/nurse before this hlth plan'
S10009 ='Same prsnl doctor/nurse before this hlth plan'
S10010_0='Prblm getting prsnl doctor/nurse you are happy with'
S10010 ='Prblm getting prsnl doctor/nurse you are happy with'
S10B01_0='Self rate of overall mental/emotional health'
S10B01 ='Self rate of overall mental/emotional health'
S10B02_0='Lst yr: needed treatmnt/cnslng-prsnl prob'
S10B02 ='Lst yr: needed treatmnt/cnslng-prsnl prob'
S10B03_0='Lst yr: prblm gttng needed treatmnt/cnslng'
S10B03 ='Lst yr: prblm gttng needed treatmnt/cnslng'
S10B04_0='Lst yr: rate of treatmnt/cnslng received'
S10B04 ='Lst yr: rate of treatmnt/cnslng received'
S10Q01_0='Have you ever had a blood stool test using a home kit'
S10Q01 ='Have you ever had a blood stool test using a home kit'
S10Q02_0='How long since last blood stool test using a home kit'
S10Q02 ='How long since last blood stool test using a home kit'
S10Q03_0='Have you ever had a sigmoidoscopy or colonoscopy'
S10Q03 ='Have you ever had a sigmoidoscopy or colonoscopy'
S10Q04_0='How long since last sigmoidoscopy'
S10Q04 ='How long since last sigmoidoscopy'
S10Q05_0='How long since last colonoscopy'
S10Q05 ='How long since last colonoscopy'
S10D02_0='How often currently use smokeless tobacco products'
S10D02 ='How often currently use smokeless tobacco products'
S10D03_0='Do you use tobacco products other than cigarettes'
S10D03 ='Do you use tobacco products other than cigarettes'
S10D05_0='Lst yr: how many visits advised to quit using other tobacco products'
S10D05 ='Lst yr: how many visits advised to quit using other tobacco products'
S10011 ='Agree/disagree: able to see provider when needed'
S10011_0='Agree/disagree: able to see provider when needed'
S10014 ='How satisfied with health care during last visit'
S10014_0='How satisfied with health care during last visit'

```

N1 = "Coding Scheme Note 1"
N2 = "Coding Scheme Note 2"
N3 = "Coding Scheme Note 3"
N4 = "Coding Scheme Note 4"
N5 = "Coding Scheme Note 5"
N5A1 = "Coding Scheme Note 5A1"
N5A2 = "Coding Scheme Note 5A2"
N5A3 = "Coding Scheme Note 5A3"
N6_Q3= "Coding Scheme Note 6_q3"
N6A1 = "Coding Scheme Note 6A1"
N7 = "Coding Scheme Note 7"
N8 = "Coding Scheme Note 8"
N8B1 = "Coding Scheme Note 8B1"
N8A1 = "Coding Scheme Note 8A1"
N9 = "Coding Scheme Note 9"
N10_Q3 = "Coding Scheme Note 10_q3"
N10A1= "Coding Scheme Note 10A1"
N11 = "Coding Scheme Note 11"
N11B = "Coding Scheme Note 11B"
N12 = "Coding Scheme Note 12"
N13 = "Coding Scheme Note 13"
N14 = "Coding Scheme Note 14"
N15 = "Coding Scheme Note 15"
N16 = "Coding Scheme Note 16"
N16A1= "Coding Scheme Note 16A1"
N16A2= "Coding Scheme Note 16A2"
N17 = "Coding Scheme Note 17"
N18 = "Coding Scheme Note 18"
N19A = "Coding Scheme Note 19A"
N19B = "Coding Scheme Note 19B"
N20 = "Coding Scheme Note 20"
N21 = "Coding Scheme Note 21"
N21A1= "Coding Scheme Note 21A1"
N22 = "Coding Scheme Note 22"
N23 = "Coding Scheme Note 23"
N24 = "Coding Scheme Note 24"

MISS_1 = "Count of: violates skip pattern"
MISS_3 = "Count of: do not use other tobacco products response"
MISS_4 = "Count of: incomplete grid error"
MISS_5 = "Count of: scalable reponse of don't know"
MISS_6 = "Count of: not applicable - valid skip"
MISS_7 = "Count of: out-of-range error"
MISS_9 = "Count of: no response - invalid skip"
MISS_TOT = "Total number of missing responses"
XSEXA = "Male or Female - R"
;

```

F.2.G Q4FY2010\PROGRAMS\CODINGScheme\CSCHM10Q.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES FOR QUARTER 4 FY2010.

```
*****;
* Program: Cschm10q.sas
* Written: 06/04/2001
* Author: C. Rankin
*
* Input: MERGESYN.sas7bdat - Merged MPR Sampling, DEERS, and Synovate Response Data
* Output: CSCHM10Q.sas7bdat - Coding scheme file
*
* Modified: 9/20/2001 - Recodes removed (stored in recodes_old.sas)
*           10/31/2001 - Revised notes 16 and 17 (became notes 26 and 27)
*           3/22/2002 - Updated Variable names for Q1 2002 and added
*                   Include file RENAME.SAS to change the variable
*                   names from 01 to 02. Skipping 01 designation to make
*                   survey reflect year of fielding
*           5/09/2002 - Change to logic in TFL supplement
*           3/17/2003 - Updated Variables names for Q1 2003
*           4/11/2003 - Added note 19a to accomodate Q1 2003 error where
*                   an option on most of the questionnaires was omitted for
*                   H03062
*           3/28/2008 - Updated Variable names for Q2 FY 2008
*           12/14/2009 - Updated Variable names for Q1 FY 2010
* Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
*           Response Data, check for consistency in responses and skip
*           patterns
* Include
* files: Cschm10q.fmt
*****;
```

```
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
```

```
LIBNAME LIBRARY      "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN           v9 "..\..\DATA\AFINAL";
LIBNAME OUT          v9 "..\..\DATA\AFINAL";
```

```
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM10q;
%LET PERIOD=July, 2009 to June, 2010;
```

```
/* Variable names in survey -- become recoded variables */
```

```
%Let varlist1 =
```

```
H10001 H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
H10002I H10002J H10002K H10002M H10002R H10002L H10003 H10004 H10005 H10006
H10007 H10008 H10009 H10010 H10011 H10012 H10013 H10014 H10015 H10016
H10017 H10018 H10019 H10020 H10021 H10022 H10023 H10024 H10025 H10026
H10027
S10009 S10010
H10028 H10029 H10030 H10031
S10B01 S10B02 S10B03 S10B04
H10032 H10033 H10034B H10034 H10035 H10036 H10037 H10038 H10039 H10040
H10041 H10042 H10043 H10044 H10045 H10046 H10047
S10R01 S10R02 S10R03A S10R03B S10R03C S10R03D S10R03E S10R04A S10R04B S10R04C
S10R04D S10R04E S10R04F S10R04G S10R05 S10R06 S10R07 S10R08 S10R09 S10R10
S10R11 S10R12 S10R13 S10R14 S10R15
H10048 H10049 H10050 H10051 H10052 H10053 H10054 H10055
S10D03 S10D02 S10D05
H10056 H10057 H10058 H10059 H10060 H10061 H10062 H10063 H10064 H10065
H10066 H10067 H10068 H10069F H10069I H10070
SREDA H10071A H10071B H10071C H10071D H10071E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE
H10072 H10073 H10074
S10011 S10014
;
```

```
/* _O variables are the original values from the survey response */
```

```
%Let varlist2 =
```

```

H10001_O H10002AO H10002CO H10002NO H10002OO H10002PO H10002QO H10002FO H10002GO H10002HO
H10002IO H10002JO H10002KO H10002MO H10002RO H10002LO H10003_O H10004_O H10005_O H10006_O
H10007_O H10008_O H10009_O H10010_O H10011_O H10012_O H10013_O H10014_O H10015_O H10016_O
H10017_O H10018_O H10019_O H10020_O H10021_O H10022_O H10023_O H10024_O H10025_O H10026_O
H10027_O
S10009_O S10010_O
H10028_O H10029_O H10030_O H10031_O
S10B01_O S10B02_O S10B03_O S10B04_O
H10032_O H10033_O H10034BO H10034_O H10035_O H10036_O H10037_O H10038_O H10039_O H10040_O
H10041_O H10042_O H10043_O H10044_O H10045_O H10046_O H10047_O
S10R01_O S10R02_O S10R03AO S10R03BO S10R03CO S10R03DO S10R03EO S10R04AO S10R04BO S10R04CO
S10R04DO S10R04EO S10R04FO S10R04GO S10R05_O S10R06_O S10R07_O S10R08_O S10R09_O S10R10_O
S10R11_O S10R12_O S10R13_O S10R14_O S10R15_O
H10048_O H10049_O H10050_O H10051_O H10052_O H10053_O H10054_O H10055_O
S10D03_O S10D02_O S10D05_O
H10056_O H10057_O H10058_O H10059_O H10060_O H10061_O H10062_O H10063_O H10064_O H10065_O
H10066_O H10067_O H10068_O H10069FO H10069IO H10070_O
SREDA_O H10071AO H10071BO H10071CO H10071DO H10071EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O
H10072_O H10073_O H10074_O
S10011_O S10014_O
;

```

```

TITLE "DoD 2010 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";

```

```

DATA MERGESYN;

```

```

    SET IN.MERGESYN(RENAME=(H10070 = H10070CH
                          ));

```

```

/* MER 7/20/10 - Code added for Q3FY2010 to recode */
/* "I don't use other tobacco products" from -7 to -3 */
IF S10D05 = -7 THEN S10D05 = -3;

```

```

*****;
* Code added by Jacqueline Agufa 09/15/2004 to fix name of race variable;
*****;

```

```

RENAME SRACEA = SRRACEA;
RENAME SRACEB = SRRACEB;
RENAME SRACEC = SRRACEC;
RENAME SRACED = SRRACED;
RENAME SRACEE = SRRACEE;

```

```

**** update variables with both filled items and check boxes
**** Per Eric Schone;

```

```

IF H10069F LT 1 THEN H10069F=H10069FN;
IF H10069I IN (-9,.) THEN H10069I=H10069IN;

```

```

H10070= COMPRESS(H10070CH, ' ')*1;

```

```

DROP H10070CH;

```

```

IF H10070=0 AND H10070N=-9 THEN H10070 =H10070N;
IF H10070<100 AND H10070N NE -9 THEN H10070 =H10070N;

```

```

*** Correct odd height and weights Per Eric Schone;

```

```

IF H10069F NOT IN (-9,.) THEN DO;
    IF H10069F < 2 OR
       H10069F > 8
       THEN H10069F= -7;
END;

```

```

IF 0 <= H10070 < 40 OR

```



```

H10070 > 500
THEN H10070= -7;

RUN;

DATA OUT.CSCHM10q;

LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
INFORMAT &VARLIST2. 4.;
%INCLUDE "CSCHM10q.FMT";

/* label and format statements for original variables */

SET MERGESYN;

*****;
**** Recodes for invalid responses:*****;
*****;

/* This is a version of the coding scheme and coding tables for the
FY 2010 HCSDB Form A.
The following tables outline the coding of screening questions (skip),
and subsequent items to be answered (or not answered in a series
following a skip question.) */

/* First set up new variables that capture the original values */
/* recode the initial numeric values to the SAS numeric values */
/* specified in the coding scheme */

SEX=PNSEXCD;
AGE=INPUT(DAGEQY,8.);

ARRAY RECODE(*) &VARLIST1;
ARRAY ORIG(*) &VARLIST2;

DO I = 1 to DIM(ORIG);
ORIG(I) = RECODE(I);
IF ORIG(I) < 0 THEN DO;
IF ORIG(I)= -9 THEN RECODE(I)=.;
ELSE IF ORIG(I)= -7 THEN RECODE(I)=.O;
ELSE IF ORIG(I)= -6 THEN RECODE(I)=.N;
ELSE IF ORIG(I)= -5 THEN RECODE(I)=.D;
ELSE IF ORIG(I)= -4 THEN RECODE(I)=.I;
ELSE IF ORIG(I)= -3 THEN RECODE(I)=.T;
ELSE IF ORIG(I)= -1 THEN RECODE(I)=.C;
ELSE RECODE(I)=RECODE(I);
END;
END;
DROP I;

/* recode selected responses to be 1=marked, 2=unmarked */

ARRAY MARKED(*)
H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
H10002I H10002J H10002K H10002M H10002R H10002L

S10R03A S10R03B S10R03C S10R03D S10R03E S10R04A S10R04B S10R04C S10R04D
S10R04E S10R04F S10R04G

H10071A H10071B H10071C H10071D H10071E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
;

ARRAY INFORMAT(*)
H10002AO H10002CO H10002NO H10002OO H10002PO H10002QO H10002FO H10002GO H10002HO

```

```

H10002IO H10002JO H10002KO H10002MO H10002RO H10002LO

S10R03AO S10R03BO S10R03CO S10R03DO S10R03EO S10R04AO S10R04BO S10R04CO S10R04DO
S10R04EO S10R04FO S10R04GO

H10071AO H10071BO H10071CO H10071DO H10071EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO
;

```

```

DO J=1 TO DIM(INFORMAT);
  IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
  ELSE MARKED(J)=2;
END;
DROP J;

```

```

FORMAT
  H10002A H10002C H10002N H10002O H10002P H10002Q H10002F H10002G H10002H
  H10002I H10002J H10002K H10002M H10002R H10002L

  S10R03A S10R03B S10R03C S10R03D S10R03E S10R04A S10R04B S10R04C S10R04D
  S10R04E S10R04F S10R04G

  H10071A H10071B H10071C H10071D H10071E
  SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
MARKED.;

```

```

*****;

```

```

/* skip coding scheme for all surveys not returned */

```

```

IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;

```

```

/** Note 1 -- H10003, H10004 health plan usage */

```

```

IF H10003 > 0 OR H10003 =.D THEN N1=1;
ELSE IF H10003=.N THEN DO;
  IF H10004 NOT=. THEN DO;
    N1=2;
    H10004=.C;
  END;
ELSE DO;
  N1=3;
  H10004=.N;
END;
ELSE IF H10003=. THEN N1=4;

```

```

/** Note 2 -- H10006,H10007,H10008: illness or injury */

```

```

ARRAY NOTE2 H10007 H10008;
N2MARK=0;
N2NMISS=0;
N2NN=0;

```

```

DO OVER NOTE2;
  IF NOTE2 NE . THEN N2NMISS+1;
  IF NOTE2 NOT IN (.N,.) THEN N2MARK+1;
  IF NOTE2 EQ .N THEN N2NN+1;
END;

```

```

IF H10006=1 AND N2NMISS=0 THEN DO;
  N2=1;
END;
ELSE IF H10006 IN (1,.) AND N2NMISS>0 AND N2MARK=0 THEN DO;
  H10006=2;
  N2=2;
  DO OVER NOTE2;
    IF NOTE2=. THEN NOTE2=.N;
    ELSE NOTE2=.C;
  END;
END;

```

```

END;
ELSE IF H10006=1 AND N2MARK=1 AND N2NN=1 THEN DO;
  DO OVER NOTE2;
    IF NOTE2=.N THEN NOTE2=.;
  END;
  N2=3;
END;
ELSE IF H10006=1 AND N2MARK>0 THEN DO;
  N2=4;
END;
ELSE IF H10006=2 AND N2MARK=1 AND N2NN=1 THEN DO;
  H10007=.C;
  H10008=.C;
  N2=5;
END;
ELSE IF H10006 IN (2,.) AND N2MARK>0 THEN DO;
  H10006=1;
  N2=6;
  DO OVER NOTE2;
    IF NOTE2=.N THEN NOTE2=.;
  END;
END;
ELSE IF H10006=2 AND (N2NMISS=0 OR (N2NMISS>0 AND N2MARK=0)) THEN DO;
  N2=7;
  DO OVER NOTE2;
    IF NOTE2=. THEN NOTE2=.N;
    ELSE NOTE2=.C;
  END;
END;
ELSE IF H10006=. AND N2NMISS=0 THEN N2=8;

```

```
DROP N2NMISS N2MARK N2NN;
```

```
/** Note 3 -- H10009,H10010,H10011: regular or routine healthcare **/
```

```

ARRAY Note3 H10010 H10011;
N3MARK=0;
N3NMISS=0;
N3NN=0;

```

```

DO OVER Note3;
  IF Note3 NE . THEN N3NMISS+1;
  IF Note3 NOT IN (.N,.) THEN N3MARK+1;
  IF Note3 EQ .N THEN N3NN+1;
END;

```

```

IF H10009=1 AND N3NMISS=0 THEN DO;
  N3=1;
END;
ELSE IF H10009 IN (1,.) AND N3NMISS>0 AND N3MARK=0 THEN DO;
  H10009=2;
  N3=2;
  DO OVER Note3;
    IF Note3=. THEN Note3=.N;
    ELSE Note3=.C;
  END;
END;
ELSE IF H10009=1 AND N3MARK=1 AND N3NN=1 THEN DO;
  DO OVER Note3;
    IF Note3=.N THEN Note3=.;
  END;
  N3=3;
END;
ELSE IF H10009=1 AND N3MARK>0 THEN DO;
  N3=4;
END;
ELSE IF H10009=2 AND N3MARK=1 AND N3NN=1 THEN DO;
  H10010=.C;
  H10011=.C;
  N3=5;
END;
ELSE IF H10009 IN (2,.) AND N3MARK>0 THEN DO;

```

```

H10009=1;
N3=6;
DO OVER Note3;
  IF Note3=.N THEN Note3=.;
END;
END;
ELSE IF H10009=2 AND (N3NMISS=0 OR (N3NMISS>0 AND N3MARK=0)) THEN DO;
  N3=7;
  DO OVER Note3;
    IF Note3=. THEN Note3=.N;
    ELSE Note3=.C;
  END;
END;
ELSE IF H10009=. AND N3NMISS=0 THEN N3=8;

DROP N3NMISS N3MARK N3NN;

/** Note 4 -- H10013, H10014-H10018: doctor's office or clinic **/

ARRAY NOTE4 H10014-H10018;

N4MARK=0;
N4NMISS=0;

DO OVER NOTE4;
  IF NOTE4 NE . THEN N4NMISS+1;
  IF NOTE4 NOT IN (., .N) THEN N4MARK+1;
END;

IF H10013=1 THEN DO;
  N4=1;
  DO OVER NOTE4;
    IF NOTE4=. THEN NOTE4=.N;
    ELSE NOTE4=.C;
  END;
END;
ELSE IF H10013 IN (2,3,4,5,6,7,..) AND N4NMISS>0 AND N4MARK=0 THEN DO;
  H10013=1;
  N4=2;
  DO OVER NOTE4;
    IF NOTE4=. THEN NOTE4=.N;
    ELSE NOTE4=.C;
  END;
END;
ELSE IF H10013 IN (2,3,4,5,6,7) AND (N4NMISS=0 OR N4MARK>0) THEN DO;
  DO OVER NOTE4;
    IF NOTE4=.N THEN NOTE4=.;
  END;
  N4=3;
END;
ELSE IF H10013=. AND N4NMISS=0 THEN N4=4;
ELSE IF H10013 IN (.) AND N4MARK>0 THEN DO;
  N4=5;
  DO OVER NOTE4;
    IF NOTE4=.N THEN NOTE4=.;
  END;
END;

DROP N4NMISS N4MARK;

/** Note 5 -- H10015, H10016-H10017: doctor's office or clinic- treatment **/

IF H10015 IN (.N,.C) THEN N5=1;
ELSE IF H10015= 1 THEN N5=2;
ELSE IF H10015 IN (2,..) AND H10016 IN (1,2) THEN DO;
  N5=3;
  H10015=1;
END;
ELSE IF H10015 IN (2,..) AND (H10016 IN (3,4,..) AND H10017 IN (1,2)) THEN DO;
  N5=4;

```

```

H10015=1;
END;
ELSE IF H10015 IN (2) AND (H10016 IN (3,4,..) AND H10017 IN (3,4,..)) THEN DO;
N5=5;
IF H10016 = . THEN H10016 = .N;
ELSE H10016 = .C;
IF H10017 = . THEN H10017 = .N;
ELSE H10017 = .C;
END;
ELSE IF H10015 IN (.) AND (H10016 IN (3,4,..) AND H10017 IN (3,4,..)) THEN DO;
N5=6;
END;

```

```

/** Note 6 -- H10019, H10020-H10027, S10009: personal doctor **/
/* MER 07/01/09 */

```

```

ARRAY NOTE6 H10021-H10024;

```

```

N6MARK=0;

```

```

DO OVER NOTE6;
IF NOTE6 NOT IN (., .N) THEN N6MARK+1;
END;

```

```

IF H10020 NOT IN (0,..) THEN N6MARK+1;

```

```

IF H10019 = 1 THEN DO;
N6=1;
IF H10027=.N THEN H10027=.;
END;
ELSE IF H10019 in (2,..) AND H10027 in (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
N6=2;
H10019=1;
END;
ELSE IF H10019 in (2,..) AND N6MARK>0 AND H10027 = . THEN DO;
N6=3;
H10019=1;
END;
ELSE IF H10019 = 2 AND N6MARK>0 AND H10027 = .N THEN DO;
N6=4;
IF H10020=. THEN H10020=.N;
ELSE H10020=.C;
DO OVER NOTE6;
IF NOTE6=. THEN NOTE6=.N;
ELSE NOTE6=.C;
END;
IF H10025=. THEN H10025=.N;
ELSE H10025=.C;
IF H10026=. THEN H10026=.N;
ELSE H10026=.C;
IF S10009=. THEN S10009=.N;
ELSE S10009=.C;
H10027=.C;
END;
ELSE IF H10019 = 2 AND N6MARK=0 AND H10027 in (.N,..) THEN DO;
N6=5;
IF H10020=. THEN H10020=.N;
ELSE H10020=.C;
DO OVER NOTE6;
IF NOTE6=. THEN NOTE6=.N;
ELSE NOTE6=.C;
END;
IF H10025=. THEN H10025=.N;
ELSE H10025=.C;
IF H10026=. THEN H10026=.N;
ELSE H10026=.C;
IF S10009=. THEN S10009=.N;
ELSE S10009=.C;
IF H10027=. THEN H10027=.N;
ELSE H10027=.C;
END;
ELSE IF H10019 = . AND H10027 = .N THEN DO; /* MER 07/31/09 combined rows 6 and 7 */

```

```

N6=6;
H10019=2;
IF H10020=. THEN H10020=.N;
ELSE H10020=.C;
DO OVER NOTE6;
  IF NOTE6=. THEN NOTE6=.N;
  ELSE NOTE6=.C;
END;
IF H10025=. THEN H10025=.N;
ELSE H10025=.C;
IF H10026=. THEN H10026=.N;
ELSE H10026=.C;
IF S10009=. THEN S10009=.N;
ELSE S10009=.C;
H10027=.C;
END;
ELSE IF H10019 = . AND N6MARK=0 AND H10027 = . THEN N6=7;

DROP N6MARK;

```

/** Note 7 -- H10020, H10021-H10026: personal doctor visit **/

```

ARRAY NOTE7 H10021-H10024;

N7MARK=0;
N7NMISS=0;

DO OVER NOTE7;
  IF NOTE7 NE . THEN N7NMISS+1;
  IF NOTE7 NOT IN (., .N) THEN N7MARK+1;
END;

IF H10020 IN (.N, .C) THEN N7=1;
ELSE IF H10020=0 THEN DO;
  N7=2;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
  IF H10025=. THEN H10025=.N;
  ELSE H10025=.C;
  IF H10026=. THEN H10026=.N;
  ELSE H10026=.C;
END;
ELSE IF H10020 IN (1,2,3,4,5,6,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
  H10020=0;
  N7=3;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
  IF H10025=. THEN H10025=.N;
  ELSE H10025=.C;
  IF H10026=. THEN H10026=.N;
  ELSE H10026=.C;
END;
ELSE IF H10020 IN (1,2,3,4,5,6,.) AND (N7NMISS=0 OR N7MARK>0) THEN DO;
  DO OVER NOTE7;
    IF NOTE7=.N THEN NOTE7=. ;
  END;
  N7=4;
END;

DROP N7NMISS N7MARK;

```

/** Note 8 -- H10025, H10026: care from another doctor or healthcare provider **/

```

IF H10025 IN (.N, .C) THEN N8=1;
ELSE IF H10025=1 THEN N8=2;
ELSE IF H10025 IN (2,.) AND H10026 IN (1,2,3,4) THEN DO;
  H10025=1;

```

```

      N8=3;
    END;
  ELSE IF H10025=2 AND H10026 IN (.) THEN DO;
    H10026=.N;
    N8=4;
  END;
  ELSE IF H10025=. AND H10026=. THEN N8=5;

/** Note 8A1 -- S10009, S10010:  problem getting new personal doctor or nurse **/

  IF S10009 IN (.N,.C) THEN N8A1=1; /* MER 07/31/09 gave each S10009 value its own row for
analysis purposes */
  ELSE IF S10009=1 THEN DO;
    N8A1=2;
    IF S10010=. THEN S10010=.N;
    ELSE S10010=.C;
  END;
  ELSE IF S10009=2 THEN N8A1=3;
  ELSE IF S10009=. THEN N8A1=4; /* MER 07/31/09 eliminated backward coding for missing S10009
*/

/** Note 9 -- H10028, H10029-H10031:  needed to see a specialist in last 12 months **/

  ARRAY NOTE9  H10029 H10031;

  N9MARK=0;
  N9NMISS=0;

  DO OVER NOTE9;
    IF NOTE9 NE . THEN N9NMISS+1;
    IF NOTE9 NOT IN (., .N) THEN N9MARK+1;
  END;

  IF H10030 NE . THEN N9NMISS+1;
  IF H10030 NOT IN (.,0) THEN N9MARK+1;

  IF H10028 IN (1) THEN DO;
    N9=1;
    IF H10029=.N THEN H10029=.;
  END;
  ELSE IF H10028 IN (2,.) AND N9MARK>0 THEN DO;
    N9=2;
    H10028=1;
    IF H10029=.N THEN H10029=.;
  END;
  ELSE IF H10028 IN (2) THEN DO;
    N9=3;
    DO OVER NOTE9;
      IF NOTE9=. THEN NOTE9=.N;
      ELSE NOTE9=.C;
    END;
    IF H10030=. THEN H10030=.N;
    ELSE H10030=.C;
  END;
  ELSE IF H10028=. AND N9NMISS>0 AND N9MARK=0 THEN DO;
    N9=4;
    H10028=2;
    DO OVER NOTE9;
      IF NOTE9=. THEN NOTE9=.N;
      ELSE NOTE9=.C;
    END;
    IF H10030=. THEN H10030=.N;
    ELSE H10030=.C;
  END;
  ELSE IF H10028=. AND N9NMISS=0 THEN N9=5;

  DROP N9NMISS N9MARK;

/** Note 10 -- H10030, H10031:  saw a specialist in last 12 months **/

```

```

IF H10030 IN (.N,.C) AND H10031 IN (.N,.C) THEN N10=1;
ELSE IF H10030 IN (1,2,3,4,5) AND H10031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN N10=2;
ELSE IF H10030 IN (1,2,3,4,5,..) AND H10031 = .N THEN DO;
  N10=3;
  H10030=0;
  H10031=.C;
END;
ELSE IF H10030 = 0 THEN DO;
  N10=4;
  IF H10031 = . THEN H10031 = .N;
  ELSE H10031 = .C;
END;
ELSE IF H10030 = . AND H10031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN N10=5;

/** Note 10A1 -- S10B02, S10B03-S10B04: overall mental health **/

ARRAY NOTE10A1 S10B03-S10B04;

N10A1MARK=0;
N10A1NMISS=0;

DO OVER NOTE10A1;
  IF NOTE10A1 NE . THEN N10A1NMISS+1;
  IF NOTE10A1 NOT IN (.,.N) THEN N10A1MARK+1;
END;

IF S10B02 = 1 THEN DO;
  N10A1=1;
  DO OVER NOTE10A1;
    IF NOTE10A1=.N THEN NOTE10A1=.;
  END;
END;
ELSE IF S10B02 IN (2,..) AND (N10A1MARK>0) THEN DO;
  N10A1=2;
  S10B02=1;
  DO OVER NOTE10A1;
    IF NOTE10A1=.N THEN NOTE10A1=.;
  END;
END;
ELSE IF S10B02=2 AND (N10A1NMISS=0 OR (N10A1NMISS > 0 AND N10A1MARK = 0)) THEN DO;
  N10A1=3;
  DO OVER NOTE10A1;
    IF NOTE10A1 = . THEN NOTE10A1=.N;
    ELSE NOTE10A1 = .C;
  END;
END;
ELSE IF S10B02 IN (.) AND (N10A1NMISS > 0 AND N10A1MARK = 0) THEN DO;
  N10A1=4;
  S10B02=2;
  DO OVER NOTE10A1;
    IF NOTE10A1 = . THEN NOTE10A1=.N;
    ELSE NOTE10A1 = .C;
  END;
END;
ELSE IF S10B02 IN (.) AND N10A1NMISS=0 THEN N10A1=5;

DROP N10A1NMISS N10A1MARK;

/** Note 11 -- H10032, H10033: tried to get care, tests, or treatment from health plan**/

IF H10032=1 AND H10033 IN (1,2,3,4,..) THEN N11=1;
ELSE IF H10032 IN (1,..) AND H10033=.N THEN DO;
  H10032=2;
  H10033=.C;
  N11=2;
END;
ELSE IF H10032 IN (2,..) AND H10033 IN (1,2,3,4) THEN DO;
  H10032=1;
  N11=3;
END;
ELSE IF H10032=2 AND H10033 IN (.,.N) THEN DO;
  IF H10033=. THEN H10033=.N;

```



```

        ELSE H10033=.C;
        N11=4;
    END;
    ELSE IF H10032=. AND H10033=. THEN N11=5;

/** Note 11B -- H10034B, H10034: look for info in written materials or on internet**/
    IF H10034B=1 AND H10034 IN (1,2,3,4,.) THEN N11B=1;
    ELSE IF H10034B IN (1,.) AND H10034=.N THEN DO;
        N11B=2;
        H10034B=2;
        H10034=.C;
    END;
    ELSE IF H10034B IN (2,.) AND H10034 IN (1,2,3,4) THEN DO;
        N11B=3;
        H10034B=1;
    END;
    ELSE IF H10034B=2 AND H10034 IN (.N,.) THEN DO;
        N11B=4;
        IF H10034=. THEN H10034=.N;
        ELSE H10034=.C;
    END;
    ELSE IF H10034B=. AND H10034=. THEN N11B=5;

/** Note 12 -- H10035, H10036: tried to get cost of service/equipment from health plan**/
    IF H10035=1 AND H10036 IN (1,2,3,4,.) THEN N12=1;
    ELSE IF H10035 IN (1,.) AND H10036=.N THEN DO;
        H10035=2;
        H10036=.C;
        N12=2;
    END;
    ELSE IF H10035 IN (2,.) AND H10036 IN (1,2,3,4) THEN DO;
        H10035=1;
        N12=3;
    END;
    ELSE IF H10035=2 AND H10036 IN (.,.N) THEN DO;
        IF H10036=. THEN H10036=.N;
        ELSE H10036=.C;
        N12=4;
    END;
    ELSE IF H10035=. AND H10036=. THEN N12=5;

/** Note 13 -- H10037, H10038: tried to get cost of prescription meds from health plan**/
    IF H10037=1 AND H10038 IN (1,2,3,4,.) THEN N13=1;
    ELSE IF H10037 IN (1,.) AND H10038=.N THEN DO;
        H10037=2;
        H10038=.C;
        N13=2;
    END;
    ELSE IF H10037 IN (2,.) AND H10038 IN (1,2,3,4) THEN DO;
        H10037=1;
        N13=3;
    END;
    ELSE IF H10037=2 AND H10038 IN (.,.N) THEN DO;
        IF H10038=. THEN H10038=.N;
        ELSE H10038=.C;
        N13=4;
    END;
    ELSE IF H10037=. AND H10038=. THEN N13=5;

/** Note 14 -- H10039, H10040-H10041: tried to use health plan's customer service **/
    ARRAY NOTE14 H10040-H10041;

    N14MARK=0;
    N14NMISS=0;

    DO OVER NOTE14;
        IF NOTE14 NE . THEN N14NMISS+1;

```

```

    IF NOTE14 NOT IN (., .N) THEN N14MARK+1;
END;

IF H10039 = 1 AND (N14MARK>0 OR N14NMISS=0) THEN DO;
    DO OVER NOTE14;
        IF NOTE14=.N THEN NOTE14=.;
    END;
    N14=1;
END;
ELSE IF H10039 IN (1,.) AND (N14NMISS > 0 AND N14MARK = 0) THEN DO;
    N14=2;
    H10039=2;
    DO OVER NOTE14;
        IF NOTE14 = . THEN NOTE14=.N;
        ELSE NOTE14 = .C;
    END;
END;
ELSE IF H10039 IN (2,.) AND (N14MARK>0) THEN DO;
    N14=3;
    H10039=1;
    DO OVER NOTE14;
        IF NOTE14=.N THEN NOTE14=.;
    END;
END;
ELSE IF H10039=2 AND (N14NMISS=0 OR (N14NMISS > 0 AND N14MARK = 0)) THEN DO;
    N14=4;
    DO OVER NOTE14;
        IF NOTE14 = . THEN NOTE14=.N;
        ELSE NOTE14 = .C;
    END;
END;
ELSE IF H10039 IN (.) AND N14NMISS=0 THEN N14=5;

DROP N14NMISS N14MARK;

/** Note 15 -- H10042, H10043: received forms to fill out from health plan **/

IF H10042=1 AND H10043 IN (1,2,3,4,.) THEN N15=1;
ELSE IF H10042 IN (1,.) AND H10043=.N THEN DO;
    H10042=2;
    H10043=.C;
    N15=2;
END;
ELSE IF H10042 IN (2,.) AND H10043 IN (1,2,3,4) THEN DO;
    H10042=1;
    N15=3;
END;
ELSE IF H10042=2 AND H10043 IN (.,.N) THEN DO;
    IF H10043=. THEN H10043=.N;
    ELSE H10043=.C;
    N15=4;
END;
ELSE IF H10042=. AND H10043=. THEN N15=5;

/** Note 16 -- H10044, H10045-H10046: claims to health plan **/

ARRAY NOTE16 H10045-H10046;
N16MARK=0;
N16NDK=0;

DO OVER NOTE16;
    IF NOTE16 NOT IN (.N,.D,.) THEN N16MARK+1; /* At least one is marked */
    IF NOTE16 NOT IN (.,.D) THEN N16NDK+1; /* All are missing or blank or dnk */
END;

IF H10044=1 AND (N16MARK>0 OR N16NDK=0) THEN DO;
    N16=1;
    DO OVER NOTE16;
        IF NOTE16=.N THEN NOTE16=.;
    END;
END;
ELSE IF H10044 IN (1,.,.D) AND N16MARK=0 AND N16NDK>0 THEN DO;

```

```

N16=2;
H10044=2;
DO OVER NOTE16;
  IF NOTE16=. THEN NOTE16=.N;
  ELSE NOTE16=.C;
END;
END;
ELSE IF H10044 IN (2,..D) AND N16MARK>0
  THEN DO;
  H10044=1;
  N16=3;
  DO OVER NOTE16;
    IF NOTE16=.N THEN NOTE16=.;
  END;
END;
ELSE IF H10044 IN (2) AND N16MARK=0 THEN DO;
  N16=4;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (.D) AND N16NDK=0 THEN DO;
  N16=5;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF H10044 IN (.) AND N16NDK=0 THEN N16=6;

DROP N16MARK N16NDK;

/** Note 16C1 -- S10R01, S10R02: Does health plan require referral to see specialist **/

IF S10R01 IN (1,.) THEN N16C1=1;
ELSE IF S10R01 = 2 THEN DO;
  N16C1=2;
  IF S10R02=. THEN S10R02=.N;
  ELSE S10R02=.C;
END;

/** Note 16C2 -- S10R03A-S10R03E,S10R04A-S10R04G,S10R05-S10R15: How did you select specialist
**/

ARRAY NOTE16C2a S10R03B--S10R03E S10R04A--S10R04G;
ARRAY NOTE16C2b S10R05-S10R15;

N16C2NMISS=0;

DO OVER NOTE16C2a;
  IF NOTE16C2a NOT IN (2) THEN N16C2NMISS+1;
END;

DO OVER NOTE16C2b;
  IF NOTE16C2b NOT IN (.) THEN N16C2NMISS+1;
END;

IF S10R03A = 1 AND N16C2NMISS > 0 THEN DO;
  N16C2=1;
  S10R03A=2;
END;
ELSE IF S10R03A = 1 AND N16C2NMISS = 0 THEN DO;
  N16C2=2;
  DO OVER NOTE16C2a;
    NOTE16C2a=.N;
  END;
  DO OVER NOTE16C2b;
    NOTE16C2b=.N;
  END;
END;
ELSE IF S10R03A = 2 THEN N16C2=3;

```

```

DROP N16C2NMISS;

/** Note 16C3 -- S10R06, S10R07-S10R10: Civilian specialists **/

ARRAY NOTE16C3 S10R07-S10R10;

IF S10R06 = .N THEN N16C3=1;
ELSE IF S10R06 IN (1,.) THEN N16C3=2;
ELSE IF S10R06 = 2 THEN DO;
    N16C3=3;
    DO OVER NOTE16C3;
        IF NOTE16C3=. THEN NOTE16C3=.N;
        ELSE NOTE16C3=.C;
    END;
END;

/** Note 16C4 -- S10R11, S10R12-S10R15: Specialists at an MTF **/

ARRAY NOTE16C4 S10R12-S10R15;

IF S10R11 = .N THEN N16C4=1;
ELSE IF S10R11 IN (1,.) THEN N16C4=2;
ELSE IF S10R11 = 2 THEN DO;
    N16C4=3;
    DO OVER NOTE16C4;
        IF NOTE16C4=. THEN NOTE16C4=.N;
        ELSE NOTE16C4=.C;
    END;
END;

/** Note 17 -- smoking: H10051, H10052-H10055 **/

ARRAY NOTE17 H10053 H10054 H10055;

IF H10051=1 and H10052 IN (3,4) THEN DO; /* still smoke */
    N17=1;
END;
ELSE IF H10051=1 AND H10052 IN (2,.D) THEN DO; /* quit */
    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
        ELSE NOTE17=.C;
    END;
    N17=2;
END;
ELSE IF H10051=1 AND H10052 = . THEN DO; /* don't know */
    N17=3;
END;
ELSE IF H10051 IN (2,.D,.) AND H10052 IN (3,4) THEN DO;
    H10051=1;

    N17=4;
END;
ELSE IF H10051 IN (2,.D) AND H10052 IN (2,.D, .) THEN DO; /*never smoke*/
    /* JMA March 25 2004,
       Updated because H10054 and H10055 have been added to the
       skip pattern */

    IF H10052 NE . THEN H10052 =.C;
    ELSE H10052=.N;

    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
        ELSE NOTE17=.C;
    END;

    N17=5;
END;
ELSE IF H10051 IN ( .) THEN DO;
    IF (H10052 IN (2,.) AND
        (H10053 IN (2,3,4,5) OR H10054 IN (2,3,4,5) OR H10055 IN (2,3,4,5)))

```

```

THEN DO;
  /* JMA March 25 2004,
    Updated because H10054 and H10055 have been added to the
    skip pattern */

  H10051=1;
  N17=6;
END;
ELSE IF H10052 IN (2,..) THEN DO; /*MRE/blank*/
  N17=7;

END;
ELSE IF H10052=.D THEN DO; /*MRE/blank*/
  /* JMA March 25 2004,
    Updated because H10054 and H10055 have been added to the
    skip pattern */

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;

  N17=8;
END;
END;

/** Note 18 -- advice from doctor on smoking: H10053-H10055 **/

IF H10053 EQ .N THEN DO; /* jma Sep 19 2006 */
  IF H10054 IN (.,.N) THEN H10054 = .N;
  ELSE H10054=.C;
  IF H10055 IN (.,.N) THEN H10055 = .N;
  ELSE H10055=.C;
  N18=1;
END;
ELSE IF H10053 EQ .C THEN DO; /* jma FEB 19 2008 */
  N18=2;
END;
ELSE IF H10053 EQ 1 AND (H10054 =.N AND H10055=.N) THEN DO; /* jma May 10 2007 */
  H10054 = 1;
  H10055 = 1;
  N18=3;
END;
ELSE IF H10053 EQ 1 AND (H10054 =.N) THEN DO; /* jma May 10 2007 */
  H10054 = 1;
  N18=4;
END;
ELSE IF H10053 EQ 1 AND (H10055=.N) THEN DO; /* jma May 10 2007 */
  H10055 = 1;
  N18=5;
END;
ELSE IF H10053 IN (2,3,4,5,..) AND (H10054 =.N AND H10055= .N) THEN DO; /* jma May 10 2007 */
  H10054 = .;
  H10055 = .;
  N18=6;
END;
ELSE IF H10053 IN (2,3,4,5,..) AND (H10054 =.N) THEN DO; /* jma May 10 2007 */
  H10054 = .;
  N18=7;
END;
ELSE IF H10053 IN (2,3,4,5,..) AND (H10055= .N) THEN DO; /* jma May 10 2007 */
  H10055 = .;
  N18=8;
END;
ELSE IF H10053 GE 1 AND (H10054 > H10053 AND H10055 > H10053) THEN DO; /* jma May 10 2007 */
  H10054 = H10053;
  H10055 = H10053;
  N18=9;
END;
ELSE IF H10053 GE 1 AND (H10054 > H10053) THEN DO; /* jma May 10 2007 */
  H10054 = H10053;
  N18=10;
END;
END;

```

```

ELSE IF H10053 GE 1 AND (H10055 > H10053) THEN DO; /* jma May 10 2007 */
  H10055 = H10053;
  N18=11;
END;
ELSE IF H10053 GE 1 AND ((H10054 <= H10053 or H10054 = . ) AND (H10055 <= H10053 or
H10055=.))
THEN DO; /* jma Feb 19 2007 */
  N18=12;
END;
ELSE IF (H10053=. AND H10054 IN (1,2,3,4,5,..) AND H10055 IN (1,2,3,4,5,..))
THEN DO; /* jma Feb 19 2007 */
  N18=13;
END;

/** Note 19 - gender H10056, SEX, H10057--H10062,
  XSEXA */

/* 1/21/98 use SRSEX & responses to gender specific questions
  if there is discrepancy between SRSEX and SEX */
/* set imputed FMALE based on gender specific questions */

ARRAY fmaleval H10057 H10058 H10059 H10060 H10061 H10062
      ;

cntfemale=0;
DO OVER fmaleval; /* mammogram/pap smear/PREGNANT*/
  IF fmaleval>0 THEN cntfemale=cntfemale+1;
END;

IF cntfemale>0 THEN FMALE=1;
ELSE FMALE = 0;

IF H10056=. THEN DO;
  IF (SEX='F' AND FMALE) THEN DO;
    N19a=1;
    XSEXA=2;
  END;
  ELSE IF (SEX='F' AND FMALE=0) THEN DO;
    N19a=2;
    XSEXA=2;
  END;
  ELSE IF (SEX='M' AND FMALE) THEN DO;
    N19a=3;
    XSEXA=1;
  END;
  ELSE IF (SEX='M' AND FMALE=0) THEN DO;
    N19a=4;
    XSEXA=1;
  END;
  ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
    N19a=5;
    XSEXA=2;
  END;
  ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
    N19a=6;
    XSEXA=. ;
  END;
  ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
    N19a=7;
    XSEXA=. ;
  END;
END;
ELSE IF (H10056=1) THEN DO;
  IF FMALE=0 THEN DO;
    N19a=8;
    XSEXA=1;
  END;
  ELSE IF FMALE THEN DO;
    IF SEX='F' THEN DO;
      N19a=9;
      XSEXA=2;
    END;
  END;

```

```

        END;
        ELSE DO;
            N19a=10;
            XSEXa=1;
        END;
    END;
END;
ELSE IF (H10056=2) THEN DO;
    IF FMALE THEN DO;
        N19a=11;
        XSEXa=2;
    END;
    ELSE IF FMALE=0 THEN DO;
        IF SEX='M' THEN DO;
            N19a=12;
            XSEXa=1;
        END;
        ELSE DO;
            N19a=13;
            XSEXa=2;
        END;
    END;
END;
END;

```

/* Note 19b - gender vs mammogram/paps/pregnancy */

```

ARRAY NOTE19b H10057 H10058 H10059 H10060 H10061 H10062
;
IF XSEXa=1 THEN DO; /* male */
    IF FMALE=0 THEN DO;
        N19b=1;
        DO OVER NOTE19b;
            NOTE19b=.N;
        END;
    END; /* valid skip */
    ELSE IF FMALE=1 THEN DO;
        N19b=2;
        DO OVER NOTE19b;
            IF NOTE19b=. THEN NOTE19b = .N;
            ELSE NOTE19b=.C;
        END;
    END; /* inconsistent response */
END;
ELSE IF XSEXa=2 THEN N19b=3; /* female */
ELSE IF XSEXa=. THEN DO; /* missing sex */
    N19b=4;
    DO OVER NOTE19b;
        NOTE19b=.;
    END;
END;

```

DROP FMALE CNTFMALE;

/* Note 20- breast exam for female 40 or over */

```

IF XSEXa=1 THEN DO; /* male */
    IF (H10058=.C OR H10058=.N) AND (H10059=.C OR H10059=.N)
        THEN N20 = 1;
    END;
    ELSE IF XSEXa=2 THEN DO;
        IF H10058=2 THEN N20=2; /* female 40 or over */
        ELSE IF H10058=1 THEN DO; /* female < 40 */
            IF H10059 NE . THEN H10059=.C;
            ELSE H10059=.N;
            N20=3;
        END;
        ELSE IF H10058=. THEN DO;
            IF H10059 NE . THEN DO;
                H10058=2;
                N20=4;
            END;
        END;
    END;

```

```

ELSE IF H10059=. THEN DO;
  IF AGE<40 THEN DO;
    H10058 = 1;
    H10059=.N;
    N20=5;
  END;
  ELSE IF AGE >= 40 THEN DO;
    H10058=2;
    N20=6;
  END;
  ELSE IF AGE=. THEN N20=7;
END;
END;
END;
ELSE IF XSEXA=. THEN N20=8;

```

/* Note 21 - gender vs Pregnancy */

```

IF XSEXA=1 THEN N21=1;          /* male */
ELSE IF XSEXA=2 THEN DO;      /* female */
  IF H10060=1 THEN DO;        /* pregnant */
    IF H10061=1 THEN DO;
      N21=2;
      IF H10062=. THEN H10062 = .N;
      ELSE H10062=.C;
    END;
    ELSE IF H10061=2 AND H10062 IN (2) THEN DO;
      N21=3;
      H10062=.;
    END;
    ELSE IF H10061=2 AND H10062 IN (4,3,1,.) THEN DO;
      N21=4;
    END;
    ELSE IF H10061 IN (3,.) THEN N21=5;
  END;
  ELSE IF H10060=2 THEN DO;
    IF H10061=. THEN H10061 = .N;
    ELSE H10061=.C;
    N21=6;
  END;
  ELSE IF H10060=3 THEN DO;
    N21=7;
    IF H10061=. THEN H10061 = .N;
    ELSE H10061=.C;
    IF H10062=. THEN H10062=.N;
    ELSE H10062=.C;
  END;
  ELSE IF H10060 IN (.) THEN DO;
    IF H10061=1 THEN DO;
      N21=8;
      H10060=1;
      IF H10062=. THEN H10062 = .N;
      ELSE H10062=.C;
    END;
    ELSE IF H10061=2 AND H10062 IN (2) THEN DO;
      N21=9;
      H10060=1;
      H10062=.;
    END;
    ELSE IF H10061=2 AND H10062 IN (4,3,1,.) THEN DO;
      H10060=1;
      N21=10;
    END;
    ELSE IF H10061=3 THEN DO;
      H10060=1;
      N21=11;
    END;
    ELSE IF H10061=. THEN DO;
      N21=12;
    END;
  END;
END;

```



```
END;
ELSE IF XSEXA=. AND H10060 IN (.) THEN N21=13;
```

```
DROP AGE SEX;
```

```
/** Note 22 -- H10065, H10066: seen doctor 3 or more times for same condition **/
```

```
IF H10065=1 THEN N22=1;
ELSE IF H10065 IN (2,.) AND H10066 IN (1,2) THEN DO;
  H10065=1;
  N22=2;
END;
ELSE IF H10065=2 AND H10066 IN (.) THEN DO;
  H10066=.N;
  N22=3;
END;
ELSE IF H10065=. AND H10066=. THEN N22=4;
```

```
/** Note 23 -- H10067, H10068: need or take medicine prescribed by a doctor **/
```

```
IF H10067=1 THEN N23=1;
ELSE IF H10067 IN (2,.) AND H10068 IN (1,2) THEN DO;
  H10067=1;
  N23=2;
END;
ELSE IF H10067=2 AND H10068 IN (.) THEN DO;
  H10068=.N;
  N23=3;
END;
ELSE IF H10067=. AND H10068=. THEN N23=4;
```

```
/** Note 24 -- H10071, H10071A-H10071E: Hispanic or Latino origin or descent **/
```

```
/* JMA
***Multiple responses were given to this question so H10071 is being created
***from the multiple responses.;
*/
```

```
IF H10071B=1 THEN DO;
  N24=1;
  H10071=2;
END;
ELSE IF H10071E=1 THEN DO;
  N24=2;
  H10071=5;
END;
ELSE IF H10071C=1 THEN DO;
  N24=3;
  H10071=3;
END;
ELSE IF H10071D=1 THEN DO;
  N24=4;
  H10071=4;
END;
ELSE IF H10071A=1 THEN DO;
  N24=5;
  H10071=1;
END;
ELSE IF H10071A IN (2,.) AND H10071B IN (2,.) AND H10071C IN (2,.) AND
  H10071D IN (2,.) AND H10071E IN (2,.) THEN DO;
  N24=6;
  H10071=.;
```

```
END;
```

```
NOSURVEY:
```

```

/* missing values */

ARRAY MISS MISS_9 MISS_7 MISS_6 MISS_5 MISS_4 MISS_3 MISS_1 ;
MISS_TOT=0;
DO OVER MISS;
    MISS = 0;
END;
ARRAY MISSARRAY &VARLIST2.;

DO OVER MISSARRAY;
    IF (MISSARRAY EQ -9 ) THEN MISS_9 = MISS_9 + 1;
    ELSE IF (MISSARRAY EQ -7) THEN MISS_7 = MISS_7 + 1;
    ELSE IF (MISSARRAY EQ -6) THEN MISS_6 = MISS_6 + 1;
    ELSE IF (MISSARRAY EQ -5) THEN MISS_5 = MISS_5 + 1;
    ELSE IF (MISSARRAY EQ -4) THEN MISS_4 = MISS_4 + 1;
    ELSE IF (MISSARRAY EQ -3) THEN MISS_3 = MISS_3 + 1;
    ELSE IF (MISSARRAY EQ -1) THEN MISS_1 = MISS_1 + 1;
END;
DO OVER MISS;
    MISS_TOT=MISS_TOT + MISS;
END;

*****;

OUTPUT;

RUN;

proc contents data=out.cschm10q;
run;

```

**F.2.H Q4FY2010\PROGRAMS\CODINGScheme\CSCHEM10Q.FMT - INCLUDE FILE FOR CODING SCHEME FOR QUARTER 4
FY2010.**

/* Formats for original answers to survey questions,
after variables have been recoded */

```

FORMAT H10001  H10001_O YN.

H10003  H10003_O HPLAN1_.
H10004  H10004_O HPTIME.

H10005  H10005_O PLACE.

H10006 H10006_O  H10009 H10009_O  H10019 H10019_O
      YN.

H10007  H10007_O OFTEN2_.
H10008  H10008_O TIME1_.

H10010  H10010_O OFTEN3_.
H10011  H10011_O TIME2_.
H10012  H10012_O OFTEN4_.

H10013  H10013_O OFTEN4_.
H10014  H10014_O OFTEN8_.
H10015  H10015_O YN.
H10016  H10016_O YNDEF.
H10017  H10017_O YNDEF.
H10018  H10018_O RATE3_.

H10020  H10020_O OFTEN10_.

H10021-H10024  H10021_O--H10024_O OFTEN5_.

H10025  H10025_O YN.
H10026  H10026_O OFTEN8_.
H10027  H10027_O RATE6_.

S10009  S10009_O YN.
S10010  S10010_O PROB1_.

H10028  H10028_O YN.
H10029  H10029_O OFTEN9_.
H10030  H10030_O SPCLST.
H10031  H10031_O RATE2_.

S10B01 S10B01_O MNTLHLTH.
S10B02 S10B02_O YN.
S10B03 S10B03_O PROB1_.
S10B04 S10B04_O RATE5_.

H10032  H10032_O YN.
H10033  H10033_O OFTEN11_.
H10034B H10034BO YN.
H10034  H10034_O OFTEN12_.
H10035  H10035_O YN.
H10036  H10036_O OFTEN13_.
H10037  H10037_O YN.
H10038  H10038_O OFTEN14_.
H10039  H10039_O YN.
H10040  H10040_O OFTEN15_.
H10041  H10041_O OFTEN15_.
H10042  H10042_O YN.
H10043  H10043_O OFTEN16_.
H10044  H10044_O YNDNK.
H10045  H10045_O OFTEN6_.
H10046  H10046_O OFTEN6_.
H10047  H10047_O RATE4_.

S10R01  S10R01_O YN.
S10R02  S10R02_O YN.
S10R05  S10R05_O PROB1_.
S10R06  S10R06_O YN.

```

S10R07 S10R07_O PROBL_.
S10R08 S10R08_O TRVLTIME.
S10R09 S10R09_O YN.
S10R10 S10R10_O OFTEN8_.
S10R11 S10R11_O YN.
S10R12 S10R12_O PROBL_.
S10R13 S10R13_O TRVLTIME.
S10R14 S10R14_O YN.
S10R15 S10R15_O OFTEN8_.

H10048 H10048_O TIME5_.
H10049 H10049_O YNBP_.
H10050 H10050_O TIME7_.
H10051 H10051_O YNDNK.
H10052 H10052_O TIME8_.
H10053 H10053_O OFTEN7_.
H10054 H10054_O OFTEN7_.
H10055 H10055_O OFTEN7_.

S10D03 S10D03_O YNDNK.
S10D02 S10D02_O TIME15_.
S10D05 S10D05_O VISIT2_.

H10056 H10056_O SEX.
H10057 H10057_O TIME11_.

H10058 H10058_O H10064 H10064_O
YN.

H10059 H10059_O TIME12_.
H10060 H10060_O YNPREG.
H10061 H10061_O PREG1_.
H10062 H10062_O PREG2_.
H10063 H10063_O HEALTH.

H10065 H10065_O YN.
H10066 H10066_O YN.
H10067 H10067_O YN.

H10068 H10068_O YN.

H10069F H10069FO
H10069I H10069IO
H10070 H10070_O
TIME14_.

SREDA SREDA_O EDUC.

H10071 HISP.

SRAGE SRAGE_O AGEGRP.

H10072 H10072_O MEDA.
H10073 H10073_O MEDB.
H10074 H10074_O MEDSUPP.

S10011 S10011_O AGREE2_.
S10014 S10014_O SATISFY.

MISS_1 MISS_3-MISS_7 MISS_9 MISS_TOT 4.
;

LABEL H10001_0='Are you the person listed on envelope'
H10001 ='Are you the person listed on envelope'
H10002AO='Health plan(s) covered: TRICARE Prime'
H10002A='Health plan(s) covered: TRICARE Prime'
H10002CO='Health plan(s) covered: TRICARE Ext/Std'
H10002C='Health plan(s) covered: TRICARE Ext/Std'
H10002NO='Health plan(s) covered: TRICARE Plus'
H10002N='Health plan(s) covered: TRICARE Plus'
H10002OO='Health plan(s) covered: TRICARE For Life'
H10002O='Health plan(s) covered: TRICARE For Life'

H10002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
H10002P ='Health plan(s) covered: TRICARE Supplmntl Ins'
H10002QO='Health plan(s) covered: TRICARE Reserve Select'
H10002Q ='Health plan(s) covered: TRICARE Reserve Select'
H10002FO='Health plan(s) covered: Medicare'
H10002F ='Health plan(s) covered: Medicare'
H10002GO='Health plan(s) covered: FEHBP'
H10002G ='Health plan(s) covered: FEHBP'
H10002HO='Health plan(s) covered: Medicaid'
H10002H ='Health plan(s) covered: Medicaid'
H10002IO='Health plan(s) covered: civilian HMO'
H10002I ='Health plan(s) covered: civilian HMO'
H10002JO='Health plan(s) covered: other civilian'
H10002J ='Health plan(s) covered: other civilian'
H10002KO='Health plan(s) covered: USFHP'
H10002K ='Health plan(s) covered: USFHP'
H10002MO='Health plan(s) covered: veterans'
H10002M ='Health plan(s) covered: veterans'
H10002RO='Health plan(s) covered: gov hlth ins-other cntry'
H10002R ='Health plan(s) covered: gov hlth ins-other cntry'
H10002LO='Health plan(s) covered: not sure'
H10002L ='Health plan(s) covered: not sure'
H10003_0='Which health plan did you use most'
H10003 ='Which health plan did you use most'
H10004_0='Yrs in a row with health plan'
H10004 ='Yrs in a row with health plan'
H10005_0='In lst yr:fcilty use most for health care'
H10005 ='In lst yr:fcilty use most for health care'
H10006_0='In lst yr:ill/injry/cond care right away'
H10006 ='In lst yr:ill/injry/cond care right away'
H10007_0='In lst yr:get urgnt care as soon as wntd'
H10007 ='In lst yr:get urgnt care as soon as wntd'
H10008_0='In lst yr:wait btwn try get care,see prv'
H10008 ='In lst yr:wait btwn try get care,see prv'
H10009_0='In lst yr:make appts non-urgnt hlth care'
H10009 ='In lst yr:make appts non-urgnt hlth care'
H10010_0='In lst yr:non-urg hlth cre appt whn wntd'
H10010 ='In lst yr:non-urg hlth cre appt whn wntd'
H10011_0='In lst yr:days btwn appt & see prvder'
H10011 ='In lst yr:days btwn appt & see prvder'
H10012_0='In lst yr:go to emrgncy rm for own care'
H10012 ='In lst yr:go to emrgncy rm for own care'
H10013_0='In lst yr:go to Dr office/clinic for care'
H10013 ='In lst yr:go to Dr office/clinic for care'
H10014 ='Lst yr: how often talk to doctor about illness prvntn'
H10014_0='Lst yr: how often talk to doctor about illness prvntn'
H10015 ='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H10015_0='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H10016 ='Lst yr: did talk to doctor about pros/cons of trtmnt'
H10016_0='Lst yr: did talk to doctor about pros/cons of trtmnt'
H10017 ='Lst yr: did doctor ask which trtmnt option best for you'
H10017_0='Lst yr: did doctor ask which trtmnt option best for you'
H10018_0='Rating of all health care in lst yr'
H10018 ='Rating of all health care in lst yr'
H10019_0='Have one person think of as personal Dr'
H10019 ='Have one person think of as personal Dr'
H10020 ='Lst yr: how often visit prsnl doctor for care for yourself'
H10020_0='Lst yr: how often visit prsnl doctor for care for yourself'
H10021_0='Lst yr: how oftn Drs listen to you'
H10021 ='Lst yr: how oftn Drs listen to you'
H10022_0='Lst yr: how oftn Drs explain things'
H10022 ='Lst yr: how oftn Drs explain things'
H10023_0='Lst yr: how oftn Drs show respect'
H10023 ='Lst yr: how oftn Drs show respect'
H10024_0='Lst yr: how oftn Drs spend enough time'
H10024 ='Lst yr: how oftn Drs spend enough time'
H10025 ='Lst yr: did get care from doctor other than prsnl doctor'
H10025_0='Lst yr: did get care from doctor other than prsnl doctor'
H10026 ='Lst yr: how often prsnl doctor seemed infrmd of care from other
doctors'
H10026_0='Lst yr: how often prsnl doctor seemed infrmd of care from other
doctors'
H10027_0='Rating of your personal Dr'
H10027 ='Rating of your personal Dr'

H10028 ='Lst yr: did make any appointments to see spclst'
H10028_O='Lst yr: did make any appointments to see spclst'
H10029 ='Lst yr: how often easy to get appointments with spclsts'
H10029_O='Lst yr: how often easy to get appointments with spclsts'
H10030 ='Lst yr: how many spclsts seen'
H10030_O='Lst yr: how many spclsts seen'
H10031 ='Rating of specialist seen in lst yr'
H10031_O='Rating of specialist seen in lst yr'
H10032 ='Lst yr: did try to get care, test, or trtmnt through health plan'
H10032_O='Lst yr: did try to get care, test, or trtmnt through health plan'
H10033 ='Lst yr: how often easy to get care, test, or trtmnt'
H10033_O='Lst yr: how often easy to get care, test, or trtmnt'
H10034B ='Lst yr: did look for info from written material/Internet'
H10034B_O='Lst yr: did look for info from written material/Internet'
H10034 ='Lst yr: how often written material/Internet provide needed info'
H10034_O='Lst yr: how often written material/Internet provide needed info'
H10035 ='Lst yr: did look for info from health plan on cost of
service/equipment'
H10035_O='Lst yr: did look for info from health plan on cost of
service/equipment'
H10036 ='Lst yr: how often able to find out cost of service/equipment'
H10036_O='Lst yr: how often able to find out cost of service/equipment'
H10037 ='Lst yr: did look for info from health plan on cost of prescription
meds'
H10037_O='Lst yr: did look for info from health plan on cost of prescription
meds'
H10038 ='Lst yr: how often able to find out cost of prescription meds'
H10038_O='Lst yr: how often able to find out cost of prescription meds'
H10039 ='Lst yr: did try to get info/help from health plan's cstmr service'
H10039_O='Lst yr: did try to get info/help from health plan's cstmr service'
H10040 ='Lst yr: how often did cstmr service give needed info/help'
H10040_O='Lst yr: how often did cstmr service give needed info/help'
H10041 ='Lst yr: how often did cstmr service treat with courtesy/respect'
H10041_O='Lst yr: how often did cstmr service treat with courtesy/respect'
H10042 ='Lst yr: did health plan give any forms to fill out'
H10042_O='Lst yr: did health plan give any forms to fill out'
H10043 ='Lst yr: how often were forms easy to fill out'
H10043_O='Lst yr: how often were forms easy to fill out'
H10044_O='Lst yr: send in any claims'
H10044 ='Lst yr: send in any claims'
H10045 ='Lst yr: how often did health plan handle claims quickly'
H10045_O='Lst yr: how often did health plan handle claims quickly'
H10046_O='Lst yr: how oftn handle claims correctly'
H10046 ='Lst yr: how oftn handle claims correctly'
H10047 ='Rating of all experience with hlth plan'
H10047_O='Rating of all experience with hlth plan'
H10048_O='Blood pressure: when lst reading'
H10048 ='Blood pressure: when lst reading'
H10049_O='Blood pressure: know if too high or not'
H10049 ='Blood pressure: know if too high or not'
H10050_O='When did you lst have a flu shot'
H10050 ='When did you lst have a flu shot'
H10051 ='Smoked at least 100 cigarettes in life'
H10051_O='Smoked at least 100 cigarettes in life'
H10052 ='Smoke everyday, some days or not at all'
H10052_O='Smoke everyday, some days or not at all'
H10053_O='Lst yr: # visits advised to quit smoking'
H10053 ='Lst yr: # visits advised to quit smoking'
H10054 ='# visits recom medic assist quit smoking'
H10054_O='# visits recom medic assist quit smoking'
H10055 ='# vist discu meth/strag asst quit smokng'
H10055_O='# vist discu meth/strag asst quit smokng'
H10056_O='Are you male or female'
H10056 ='Are you male or female'
H10057_O='Lst have a Pap smear test'
H10057 ='Lst have a Pap smear test'
H10058_O='Are you under age 40'
H10058 ='Are you under age 40'
H10059_O='Lst time: breasts checked mammography'
H10059 ='Lst time: breasts checked mammography'
H10060_O='Been pregnant in lst yr or pregnant now'
H10060 ='Been pregnant in lst yr or pregnant now'
H10061_O='In what trimester is your pregnancy'
H10061 ='In what trimester is your pregnancy'

H10062_O='Trimester first received prenatal care'
H10062 ='Trimester first received prenatal care'
H10063_O='In gnrl, how would you rate ovrall hlth'
H10063 ='In gnrl, how would you rate ovrall hlth'
H10064_O='Impairment/Hlth prblm limit activities'
H10064 ='Impairment/Hlth prblm limit activities'
H10065 ='Lst yr: have seen doctor 3 or more times for same condition'
H10065_O='Lst yr: have seen doctor 3 or more times for same condition'
H10066 ='Has condition lasted for at least 3 months'
H10066_O='Has condition lasted for at least 3 months'
H10067 ='Need to take medicine prescribed by a doctor'
H10067_O='Need to take medicine prescribed by a doctor'
H10068 ='Medicine to treat condition that has lasted for at least 3 months'
H10068_O='Medicine to treat condition that has lasted for at least 3 months'
H10069FO='Height without shoes (feet)'
H10069F='Height without shoes (feet)'
H10069IO='Height without shoes (inches)'
H10069I='Height without shoes (inches)'
H10070_O='Weight without shoes'
H10070 ='Weight without shoes'
SREDA_O='Highest grade completed'
SREDA ='Highest grade completed'
H10071 ='Are you Spanish/Hispanic/Latino'
H10071AO='Not Spanish/Hispanic/Latino'
H10071A='Not Spanish/Hispanic/Latino'
H10071BO='Mexican, Mexican American, Chicano'
H10071B='Mexican, Mexican American, Chicano'
H10071CO='Puerto Rican'
H10071C='Puerto Rican'
H10071DO='Cuban'
H10071D='Cuban'
H10071EO='Other Spanish, Hispanic, or Latino'
H10071E='Other Spanish, Hispanic, or Latino'
SRRACEAO='Race: White'
SRRACEA='Race: White'
SRRACEBO='Race: Black or African American'
SRRACEB='Race: Black or African American'
SRRACECO='Race: American Indian or Alaska Native'
SRRACEC='Race: American Indian or Alaska Native'
SRRACEDO='Race: Asian'
SRRACED='Race: Asian'
SRRACEEO='Race: Native Hawaiian/other Pacific Isl.'
SRRACEE='Race: Native Hawaiian/other Pacific Isl.'
SRAGE_O='What is your age now'
SRAGE ='What is your age now'
H10072 ='Currently Covered Medicare Part A'
H10072_O='Currently Covered Medicare Part A'
H10073 ='Currently Covered Medicare Part B'
H10073_O='Currently Covered Medicare Part B'
H10074 ='Currently Covered Medicare Supplemental'
H10074_O='Currently Covered Medicare Supplemental'

S10009_O='Same prsnl doctor/nurse before this hlth plan'
S10009 ='Same prsnl doctor/nurse before this hlth plan'
S10010_O='Prblm getting prsnl doctor/nurse you are happy with'
S10010 ='Prblm getting prsnl doctor/nurse you are happy with'

S10B01_O='Self rate of overall mental/emotional health'
S10B01 ='Self rate of overall mental/emotional health'
S10B02_O='Lst yr: needed treatmnt/cnslng-prsnl prob'
S10B02 ='Lst yr: needed treatmnt/cnslng-prsnl prob'
S10B03_O='Lst yr: prblm gttng needed treatmnt/cnslng'
S10B03 ='Lst yr: prblm gttng needed treatmnt/cnslng'
S10B04_O='Lst yr: rate of treatmnt/cnslng received'
S10B04 ='Lst yr: rate of treatmnt/cnslng received'

S10R01_O='Does hlth plan require referral from dr to see spclst'
S10R01 ='Does hlth plan require referral from dr to see spclst'
S10R02_O='Lst yr: did dr refer you to spclst'
S10R02 ='Lst yr: did dr refer you to spclst'
S10R03AO='How spclst selected in lst yr: did not see spclst'
S10R03A='How spclst selected in lst yr: did not see spclst'
S10R03BO='How spclst selected in lst yr: dr told me what spclst to see'
S10R03B='How spclst selected in lst yr: dr told me what spclst to see'

S10R03CO='How splclst selected in lst yr: suggestion from friend/relative'
 S10R03C ='How splclst selected in lst yr: suggestion from friend/relative'
 S10R03DO='How splclst selected in lst yr: picked from list supplied by TRICARE or
 hlth plan'
 S10R03D ='How splclst selected in lst yr: picked from list supplied by TRICARE or
 hlth plan'
 S10R03EO='How splclst selected in lst yr: picked on my own'
 S10R03E ='How splclst selected in lst yr: picked on my own'
 S10R04AO='How appntmnt made in lst yr: contacted appntmnt line or referral desk'
 S10R04A ='How appntmnt made in lst yr: contacted appntmnt line or referral desk'
 S10R04BO='How appntmnt made in lst yr: called an MTF'
 S10R04B ='How appntmnt made in lst yr: called an MTF'
 S10R04CO='How appntmnt made in lst yr: called prsnl dr'
 S10R04C ='How appntmnt made in lst yr: called prsnl dr'
 S10R04DO='How appntmnt made in lst yr: called splclst'
 S10R04D ='How appntmnt made in lst yr: called splclst'
 S10R04EO='How appntmnt made in lst yr: asked prsnl dr to make appntmnt'
 S10R04E ='How appntmnt made in lst yr: asked prsnl dr to make appntmnt'
 S10R04FO='How appntmnt made in lst yr: prsnl dr made appntmnt'
 S10R04F ='How appntmnt made in lst yr: prsnl dr made appntmnt'
 S10R04GO='How appntmnt made in lst yr: other'
 S10R04G ='How appntmnt made in lst yr: other'
 S10R05_0='Lst yr: how much prblm understanding process needed to see splclst'
 S10R05 ='Lst yr: how much prblm understanding process needed to see splclst'
 S10R06_0='Lst yr: referred to any civilian splclsts'
 S10R06 ='Lst yr: referred to any civilian splclsts'
 S10R07_0='How much prblm was wait time to see civilian splclst'
 S10R07 ='How much prblm was wait time to see civilian splclst'
 S10R08_0='Lst yr: longest time spent traveling to see civilian splclst'
 S10R08 ='Lst yr: longest time spent traveling to see civilian splclst'
 S10R09_0='Lst yr: travel more than 100 miles to see civilian splclst'
 S10R09 ='Lst yr: travel more than 100 miles to see civilian splclst'
 S10R10_0='Lst yr: how often did dr seem informed about care from civilian
 splclsts'
 S10R10 ='Lst yr: how often did dr seem informed about care from civilian
 splclsts'
 S10R11_0='Lst yr: referred to splclst at MTF'
 S10R11 ='Lst yr: referred to splclst at MTF'
 S10R12_0='How much prblm was wait time to see splclst at MTF'
 S10R12 ='How much prblm was wait time to see splclst at MTF'
 S10R13_0='Lst yr: longest time spent traveling to see splclst at MTF'
 S10R13 ='Lst yr: longest time spent traveling to see splclst at MTF'
 S10R14_0='Lst yr: travel more than 100 miles to see splclst at MTF'
 S10R14 ='Lst yr: travel more than 100 miles to see splclst at MTF'
 S10R15_0='Lst yr: how often did dr seem informed about care from splclsts at MTF'
 S10R15 ='Lst yr: how often did dr seem informed about care from splclsts at MTF'

 S10D02_0='How often currently use smokeless tobacco products'
 S10D02 ='How often currently use smokeless tobacco products'
 S10D03_0='Do you use tobacco products other than cigarettes'
 S10D03 ='Do you use tobacco products other than cigarettes'
 S10D05_0='Lst yr: how many visits advised to quit using other tobacco products'
 S10D05 ='Lst yr: how many visits advised to quit using other tobacco products'

 S10011 ='Agree/disagree: able to see provider when needed'
 S10011_0='Agree/disagree: able to see provider when needed'
 S10014 ='How satisfied with health care during last visit'
 S10014_0='How satisfied with health care during last visit'

 N1 = "Coding Scheme Note 1"
 N2 = "Coding Scheme Note 2"
 N3 = "Coding Scheme Note 3"
 N4 = "Coding Scheme Note 4"
 N5 = "Coding Scheme Note 5"
 N6 = "Coding Scheme Note 6"
 N7 = "Coding Scheme Note 7"
 N8 = "Coding Scheme Note 8"
 N8A1 = "Coding Scheme Note 8A1"
 N9 = "Coding Scheme Note 9"
 N10 = "Coding Scheme Note 10"
 N10A1 = "Coding Scheme Note 10A1"
 N11 = "Coding Scheme Note 11"
 N11B = "Coding Scheme Note 11B"
 N12 = "Coding Scheme Note 12"

N13 = "Coding Scheme Note 13"
N14 = "Coding Scheme Note 14"
N15 = "Coding Scheme Note 15"
N16 = "Coding Scheme Note 16"
N16C1= "Coding Scheme Note 16C1"
N16C2= "Coding Scheme Note 16C2"
N16C3= "Coding Scheme Note 16C3"
N16C4= "Coding Scheme Note 16C4"
N17 = "Coding Scheme Note 17"
N18 = "Coding Scheme Note 18"
N19A = "Coding Scheme Note 19A"
N19B = "Coding Scheme Note 19B"
N20 = "Coding Scheme Note 20"
N21 = "Coding Scheme Note 21"
N22 = "Coding Scheme Note 22"
N23 = "Coding Scheme Note 23"
N24 = "Coding Scheme Note 24"

MISS_1 = "Count of: violates skip pattern"
MISS_3 = "Count of: do not use other tobacco products response"
MISS_4 = "Count of: incomplete grid error"
MISS_5 = "Count of: scalable reponse of don't know"
MISS_6 = "Count of: not applicable - valid skip"
MISS_7 = "Count of: out-of-range error"
MISS_9 = "Count of: no response - invalid skip"
MISS_TOT = "Total number of missing responses"
XSEXA = "Male or Female - R"

;

F.3 Q4FY2010\PROGRAMS\WEIGHTING\SELECTQ.SAS - CREATE FLAG FOR RECORD SELECTION – RUN QUARTERLY

```

*****
*
* PROGRAM:  SELECTQ.SAS
* TASK:    QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6244-300)
* PURPOSE: ASSIGN FINAL STATUS FOR RECORD SELECTION PURPOSES.
* WRITTEN: 12/14/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 03/21/2002 BY KEITH RATHBUN, Updated for the 2002 survey.
*           Added FLAG_FIN = 23,24 for FNSTATUS = 20.
*           2) 03/22/2004 BY KEITH RATHBUN, Updated for the 2004 survey.
*           3) 09/23/2004 BY KEITH RATHBUN, Added code to assign flag_fin
*             for ineligible (determined by STI) at time of address update
*             prior to fielding using the adult_deceased.sd2 file.
*           4) 04/15/2005 BY JACQUELINE AGUFA, Updated for the 2005 survey.
*           5) 03/16/2006 BY JACQUELINE AGUFA, Updated for the 2006 survey.
*           6) 12/15/2006 BY JACQUELINE AGUFA, Updated for the 2007 survey.
*           7) 01/10/2008 BY JACQUELINE AGUFA, Updated for the 2008 survey.
*           8) 12/17/2009 BY JACQUELINE AGUFA, Updated for the 2009 survey.
*           9) 12/15/2010 BY JACQUELINE AGUFA, Updated for the 2010 survey.
*
* INPUTS:  1) CSCHM10Q.sas7bdat - 2010 Quarterly DOD Health Survey Data
*
* OUTPUTS: 1) SELECTQ.sas7bdat - 2010 Quarterly DOD Health Survey Data w/FNSTATUS
*
*****
*
LIBNAME IN      V9 "..\..\DATA\AFINAL";
LIBNAME OUT     V9 "..\..\DATA\AFINAL";
LIBNAME LIBRARY "...\..\DATA\AFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

PROC SORT DATA=IN.CSCHM10Q OUT=TEMPA1; BY MPRID; RUN;

DATA TEMP2 OUT.DUPSA;
  SET TEMP1;
  BY MPRID;
  /*****
  /** KEY VARIABLES (Total=20) **/
  /*****
  ARRAY KEYVAR H10003 H10005 H10006 H10009 H10013 H10018 H10019 H10027
              H10028 H10031 H10033 H10039 H10042 H10047 H10050 H10051
              H10063 H10071 SREDA
              ;

  ARRAY RACE(5) SRRACEA SRRACEB SRRACEC SRRACED SRRACEE;

  FLAGRACE = 0; DROP FLAGRACE;
  DO I = 1 TO DIM(RACE);
    IF RACE(I) IN (1) THEN FLAGRACE = 1;
  END;

  KEYCOUNT = 0;
  DO I = 1 TO DIM(KEYVAR); DROP I;
    IF KEYVAR(I) NOT IN (.,.A,.,O,.,I,.,B) THEN KEYCOUNT = KEYCOUNT + 1;
  END;
  KEYCOUNT = KEYCOUNT + FLAGRACE;

  /*****
  /** SET FLAG FOR DUPLICATES **/
  /*****
  LENGTH DUPFLAG $3;
  DUPFLAG = 'NO';
  IF NOT (FIRST.MPRID AND LAST.MPRID) THEN DUPFLAG = 'YES';

  /*****
  /** DETERMINE FNSTATUS **/
  /*****
  FNSTATUS = 0;
  IF FLAG_FIN = 1 THEN DO;
    *****

```

```

**** APPLY THE COMPLETE QUESTIONNAIRE RULE (50% OF KEY ****
**** VARIABLES). ****
*****;
IF KEYCOUNT GT 9 THEN FNSTATUS = 11;
ELSE FNSTATUS = 12;
END;
ELSE IF FLAG_FIN IN(3,6,8,10,11,14,16,21,23,24) THEN DO;
  FNSTATUS = 20;
END;
ELSE IF FLAG_FIN IN(2,4,5,7,12,13,15) THEN DO;
  FNSTATUS = 31;
END;
ELSE IF FLAG_FIN IN (25,26) THEN DO;
  FNSTATUS = 32;
END;
ELSE IF FLAG_FIN IN(9,17,18,19,20,22) THEN DO;
  IF FLAG_FIN IN (18,19,20) THEN DO;
    FNSTATUS = 42;
  END;
  ELSE DO;
    FNSTATUS = 41;
  END;
END;

IF DUPFLAG = 'YES' THEN OUTPUT OUT.DUPSA ;
ELSE OUTPUT TEMP2;

RUN;

*****
* Select the "most complete" questionnaire from duplicates and
* SET it back into the non-duplicates file. For now assume the lowest
* FNSTATUS Value is the "most complete".
*****
;
PROC SORT DATA=OUT.DUPSA ;
BY MPRID FNSTATUS;
RUN;

DATA DEDUPED;
SET OUT.DUPSA ;
BY MPRID FNSTATUS;
IF FIRST.MPRID; *KEEP only the first - most complete questionnaire;
RUN;

DATA OUT.SELECTQ ;
SET TEMP2 DEDUPED;
LABEL FNSTATUS = "Final Status"
      DUPFLAG = "Multiple Response Indicator"
      STRATUM = "Sampling STRATUM"
      KEYCOUNT = "# Key Questions Answered"
      ;
RUN;

TITLE1 "Quarterly DOD Health Survey FNSTATUS assignment (6663-500)";
TITLE2 "Program Name: SELECTQ.SAS By Keith Rathbun";
TITLE3 "Program Output: SELECTQ.sas7bdat";

PROC CONTENTS DATA=OUT.SELECTQ ; RUN;

PROC FREQ DATA=OUT.SELECTQ ;
TABLES FNSTATUS KEYCOUNT FLAG_FIN
      FNSTATUS*KEYCOUNT*FLAG_FIN
      /MISSING LIST;
RUN;

```

F.4.A Q4FY2010\PROGRAMS\CONSTRUCT\CONVARQ.SAS - CONSTRUCT VARIABLES FOR ANALYSIS – RUN QUARTERLY

```

*****
* PROGRAM:      CONVARQ.SAS
* WRITTEN:     2/3/99 BY KELLY WHITE
* UPDATED:    2/29/2000 BY NATALIE JUSTH
* UPDATED:    11/16/2000 BY JOAN JAMES
* UPDATED FOR QUARTERLY 2001: 1/22/2001 BY NATALIE JUSTH
* UPDATED FOR QUARTER 2 2001: 6/5/2001 BY NATALIE JUSTH
*
*             UPDATES NOTED WITH NJ_Q2
* UPDATED FOR QUARTER 3 2001: 8/20/2001 BY NATALIE JUSTH
* UPDATED FOR QUARTER 4 2001: 12/11/2001 BY NATALIE JUSTH, REMOVED KENRINTN
*
*             AND CHANGE DAGEQY TO FIELDAGE.
* UPDATED FOR QUARTER 1 2002: 4/01/2002 BY JACLYN WONG, REMOVED KMEDIGAP, KCOST_2
* UPDATED FOR QUARTER 2 2002: 6/19/2002 BY JACLYN WONG, REMOVED KPRSCPTN
* UPDATED FOR QUARTER 3 2002: 9/25/2002 BY JACLYN WONG
* UPDATED FOR QUARTER 1 2003: BEGUN 3/13/2003 BY NATALIE JUSTH
* UPDATED FOR QUARTER 3 2003: BEGUN 8/29/2003 BY NATALIE JUSTH
* UPDATED FOR QUARTER 4 2003: 12/18/2003 BY NATALIE JUSTH
* UPDATED FOR QUARTER 1 2004: 1/29/2004 BY LUCY LU
* UPDATED FOR QUARTER 2 2004: 6/10/2004 BY LUCY LU
* UPDATED FOR QUARTER 3 2004: 9/13/2004 BY LUCY LU
* Added Code to include Consvar0.sas: 9/28/2004 BY JACQUELINE AGUFA
* Added Code to calculate XBMI: 10/18/2004 BY JACQUELINE AGUFA
* UPDATED FOR QUARTER 4 2004: 2/1/2005 BY LUCY LU
* ADDED code to get updated CACSMPL from REPWT.sd2: 2/17/2005 BY JACQUELINE AGUFA
* UPDATED FOR QUATER 1 2005: 5/6/2005 BY LUCY LU. ADD VARIABLE HP_NORM
* UPDATED FOR QUATER 3 2005: 11/3/2005 BY JACQUELINE AGUFA. ADD VARIABLE HP_OBESE
* UPDATED FOR QUARTER 2 FY 2006: 3/29/2006 BY LUCY LU
* UPDATED FOR QUARTER 3 FY 2006: 7/7/2006 BY LUCY LU. ADD XOCONUS VARIABLE
* UPDATED FOR QUARTER 1 FY 2007: 1/12/2007 BY J AGUFA.
* UPDATED FOR QUARTER 2 FY 2007: 3/26/2007 BY J AGUFA. Modified XENRLLMT, XENR_PCM, XENR_RSV, &
XBNFGRP
*
*             with TRICARE Reserve Select(Enbgsmpl=11)
* UPDATED FOR QUARTER 1 FY 2008: 1/22/2008 BY J AGUFA. Deleted code that was recoding LEGDDSCD
* UPDATED FOR QUARTER 2 FY 2009: 4/13/2009 BY M RUDACILLE. Changed lower age limit from 17 to
18
*
*             for constructed variable checks
* UPDATED FOR QUARTER 1 FY 2010: 12/16/2009 BY MRUDACILLE.
*
* PURPOSE:     TO CREATE INDEPENDENT VARIABLES: XENRLLMT, XENR_PCM, XINS_COV,
*
*             XBNFGRP, XBENCAT, XINS_RSV, XENR_RSV
* TO CREATE DEPENDENT VARIABLES: KDISENRL, KBGPRB1,
*
*             KBGPRB2, KMILOFFC, KCIVOFFC, KMILOPQY, KCIVOPQY, HP_PRNTL, HP_MAMOG,
*
*             HP_MAM50, HP_PAP, HP_BP, HP_FLU, HP_PROS, KCIVINS, KPRSCPTN, HP_GP,
*
*             HP_CHOL, HP_BRST, HP_SMOKE, HP_SMOKH, HP_CESS, HP_OBESE,
*
*
* TO CREATE OUTCATCH
* INPUT:      ..\..\DATA\AFINAL\SELECTQ.sas7bdat
* OUTPUT:     ..\..\DATA\AFINAL\CONVARQ.sas7bdat
*
* INCLUDES:  1) CONSVAR0.SAS - Construct XREGION, XTNEXREG and USA based on CACSMPL.
*
*             2) Construct_cacsmpl.SAS
*****;

LIBNAME IN    V9 '..\..\DATA\AFINAL';
LIBNAME LIBRARY '..\..\DATA\AFINAL\FMTLIB';

OPTIONS PS=78 LS=256 ERRORS=2 NOCENTER ;

***Create cacsmpl;

TITLE1 'FY 2010 Quarter 4 Health Care Survey of DoD Beneficiaries Study - Adult Form A';
TITLE2 'CREATE CONSTRUCTED & OUTCOME MEASURE VARIABLES';

PROC SORT DATA=IN.SELECTQ OUT=SELECTQ; BY MPRID; RUN;
%INCLUDE "Construct_cacsmpl.SAS"/SOURCE2; /* Move construct_cacsmpl here to use selectq sort */

/* Reset titles after construct_cacsmpl is finished */
TITLE1 'FY 2010 Quarter 4 Health Care Survey of DoD Beneficiaries Study - Adult Form A';
TITLE2 'CREATE CONSTRUCTED & OUTCOME MEASURE VARIABLES';

```

```

PROC SORT DATA=IN.CONSTRUCT_CACSMPL OUT=CACSMPL; BY MPRID; RUN;

DATA IN.CONVARQ(KEEP=XENRLLMT XENR_PCM XINS_COV
                XREGION XTNEXREG USA
                ENBGSMPL XBNFGRP XOCONUS SERVAREA
                /*KMILOFFC KCIVOFFC KBGPRB1 KBGPRB2 */
                KMILOPQY KCIVOPQY HP_PRNTL HP_MAMOG HP_MAM50 HP_PAP HP_BP HP_FLU
                MPRID KCIVINS HP_SMOKE
                OUTCATCH HP_SMKH2 HP_CESH2 HP_OBESE
                XBMI XBMICAT CACSMPL XBENCAT XENR_RSV XINS_RSV
                RDAGEQY RFLDAGE)
    CONVARQ;
MERGE SELECTQ(IN=in1)
    CACSMPL(IN=in2 RENAME=(CACSMPL=XCACSMPL));          *JMA 1/4/07;

BY MPRID;

IF IN1;

*****
* Construct XREGION, XTNEXREG and USA.
*****;

/*CHANGE CACSMPL TO BE NUMERIC*/
CACSMPL = INPUT(XCACSMPL,8.);          *LLU 2/9/05;
DROP XCACSMPL;

%INCLUDE "CONSVAR0.SAS"/SOURCE2;          *LLU 2/9/05;

LENGTH XREGION 3.
        XTNEXREG 3.
        USA      3.
        XBMI     8.
        XBMICAT  3.
        XOCONUS  3.
        XBENCAT  3.
        XINS_RSV 3.
        XENR_RSV 3.
        RDAGEQY  3.
        RFLDAGE  3.
        ;

LABEL
XENRLLMT = "Enrollment in TRICARE Prime"
XENR_PCM = "Enrollment by PCM type"
XINS_COV = "Insurance Coverage"
XBNFGRP  = "Constructed Beneficiary Group"
KMILOPQY = "Outpat. visits-use Military fclty most"
KCIVOPQY = "Outpat. visits-use Civilian fclty most"
HP_PRNTL = "Prgnt in lst yr, receivd cre lst trimstr"
HP_MAMOG = "Women 40>=, mammography in pst 2 yrs"
HP_MAM50 = "Women 50>=, mammography in pst 2 yrs"
HP_PAP   = "All women, Pap smear in last 3 yrs"
HP_BP    = "Bld prsre chck in last 2 yrs, know rslts"
HP_FLU   = "65 and older, flu shot in last 12 mnths"
HP_SMOKE = "Advised to quit smoking in last 12 mnths"
KCIVINS  = "Beneficiary coverd by civilian insurance"
OUTCATCH = "Out of catchment area indicator"
HP_SMKH2 = "Smoker under HEDIS definition (modified)"
HP_CESH2 = "Had smoking cessation counseling - HEDIS (modified)"
XREGION  = "XREGION - Region"
XTNEXREG = "TNE X Region - Based on Location of Health Services"
USA      = "USA - USA/OCONUS Indicator"
XBMI     = "Body Mass Index"
XBMICAT  = "Body Mass Index Category"
HP_OBESE = "Obese/Morbidly obese"
XOCONUS  = "Overseas Europe/Pacific/Latin Indicator"
XBENCAT  = "Beneficiary Category"
XINS_RSV = "Insurance Coverage - Reservist"
XENR_RSV = "Enrollment by PCM type - Reservist"
CACSMPL  = "Catchment Area"

```

```

SERVAREA = "Service Area"
RDAGEQY  = "Age at sampling-Capped(18 and below, 86 and above)"
RFLDAGE  = "Age at fielding-Capped(18 and below, 86 and above)"
;

```

FORMAT

```

XENRLMT  ENROLL.
XENR_PCM PCM.
XINS_COV INSURE.
XBNFGRP  XBGC_S.
KMILOPQY HAGRID.
KCIVOPQY HAGRID.
HP_PRNTL PRNTL.
HP_MAMOG HAYNN.
HP_MAM50 HAYNN.
HP_OBESE HAYNN.
HP_PAP   HAYNN.
HP_BP    HAYNN2_.
HP_FLU   HAYNN.
HP_SMOKE HAYNN.
KCIVINS  HAYNN2_.
OUTCATCH OCATCH.
HP_SMKH2 SMOKE.
HP_CESH2 SMOKE.
ENBGSMPL $ENBGS.
XREGION  CREG.
XTNEXREG TNEX.
USA      USAMHS.
XBMICAT  XBMICAT.
XOCONUS  XOCONUS.
XBENCAT  XBENCAT.
XINS_RSV XINSRSV.
XENR_RSV XENRRSV.
CACSMPL  CAC.
SERVAREA $SRVAREA.
RDAGEQY  AGE_r.
RFLDAGE  AGE_r.
;

```

/* CREATE INDEPENDENT VARIABLES */

/* XENRLMT--ENROLLMENT STATUS */

```

IF ENBGSMPL ^= "b" THEN DO;
IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 1 THEN XENRLMT = 1; /* Active duty (<65) */
  ELSE IF INPUT(ENBGSMPL,8.) IN (2, 3, 5, 6) THEN XENRLMT = 2; /* Non-active duty enrolled (<65) */
  ELSE IF INPUT(ENBGSMPL,8.) IN (4,7,11) THEN XENRLMT = 3; /* Not Enrolled (<65) */
END;
ELSE IF INPUT(FIELDAGE,8.) >= 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 10 THEN XENRLMT = 4; /* Not Enrolled (65+) */
  ELSE IF INPUT(ENBGSMPL,8.) IN (8,9) THEN XENRLMT = 5; /* Enrolled (65+) */
END;

```

/* XENR_PCM--ENROLLMENT BY PCM TYPE */

```

IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 1 THEN XENR_PCM = 1; /* Active duty (<65) */
  ELSE IF INPUT(ENBGSMPL,8.) IN (3, 6) THEN XENR_PCM = 2; /* Enrolled (<65) - mil PCM */
  ELSE IF INPUT(ENBGSMPL,8.) IN (2, 5) THEN XENR_PCM = 3; /* Enrolled (<65) - civ PCM */
  ELSE IF INPUT(ENBGSMPL,8.) IN (4, 7,11) THEN XENR_PCM = 4; /* Not Enrolled (<65) */
END;
ELSE IF INPUT(FIELDAGE,8.) >= 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 10 THEN XENR_PCM = 5; /* Not Enrolled (65+) */
  IF INPUT(ENBGSMPL,8.) = 9 THEN XENR_PCM = 6; /* Enrolled (65+)-mil PCM */
  IF INPUT(ENBGSMPL,8.) = 8 THEN XENR_PCM = 7; /* Enrolled (65+)-civ PCM */
/*NJ_Q2*/
END;
END;

```

/* XINS_COV--INSURANCE COVERAGE */

```

IF XENRLLMT = 1 THEN XINS_COV = 1; /* Prime <65-Active Duty */
ELSE IF 17 <= INPUT(FIELDAGE,8.) < 65 AND H10003 IN (1) THEN XINS_COV = 2; /* Prime <65-Non-
active Duty */
ELSE IF H10003 = 3 THEN XINS_COV = 3; /* Standard/Extra */
ELSE IF H10003 = 11 THEN XINS_COV = 7; /* Plus and Medicare */
ELSE IF H10003 = 4 THEN XINS_COV = 4; /* Medicare*/
ELSE IF H10003 IN (5,6, 7, 8, 9, 13) THEN XINS_COV = 5; /* Other civilian health
insurance*/
ELSE IF H10003 = 10 THEN XINS_COV = 8; /* Veterans Administration
(VA) */
ELSE IF H10003 = 12 THEN XINS_COV = 9; /* TRICARE Reserve Select
*/
ELSE IF (INPUT(FIELDAGE,8.)>= 65 AND XENRLLMT = 5 and H10003 = 1) THEN XINS_COV = 6; /*
Prime, >= 65 */
ELSE IF H10072=1 AND H10073=1 AND H10003 NE .N THEN XINS_COV = 4; /* NEW Q2
Medicare/Medicaid */

/* XBNFGRP-Beneficiary Group that excludes those 65 and over-Active Duty
and Family Members of Active Duty */
IF ENBGSMPL ^= "b" THEN DO;
IF INPUT(FIELDAGE,8.) >= 65 AND INPUT(ENBGSMPL,8.) IN (1, 2, 3, 4) THEN XBNFGRP = .;
ELSE IF INPUT(ENBGSMPL,8.) = 1 THEN XBNFGRP = 1; /* Active
Duty <65 */
ELSE IF INPUT(ENBGSMPL,8.) IN (2, 3, 4) THEN XBNFGRP = 2; /* Family
of Active <65 */
ELSE IF INPUT(ENBGSMPL,8.) IN (5, 6, 7) THEN XBNFGRP = 3; /*
Ret/Surv/Fam <65 */
ELSE IF INPUT(ENBGSMPL,8.) IN (8, 9, 10) THEN XBNFGRP = 4; /*
Ret/Surv/Fam 65+ */
ELSE IF INPUT(ENBGSMPL,8.) IN (11) THEN XBNFGRP = .;
END;

/* CREATE DEPENDENT VARIABLES */

/* KMILOPQY--OUTPATIENT VISITS TO MILITARY FACILITY
KCIVOPQY--OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF H10005 = 1 THEN DO;
KMILOPQY=H10013;
KCIVOPQY=1;
END;
ELSE IF H10005 IN (2, 3, 4) THEN DO;
KCIVOPQY=H10013;
KMILOPQY=1;
END;
ELSE IF H10005 = 5 THEN DO;
KMILOPQY=1;
KCIVOPQY=1;
END;

/* HP_PRNTL--IF PREGNANT LAST YEAR, RECEIVED PRENATAL CARE IN 1ST TRIMESTER */
IF H10060 IN (1,2) THEN DO; /* Pregnant in last 12
months */
IF H10062 = 4 THEN HP_PRNTL = 1; /* Yes */
ELSE IF (H10061 = 1 AND H10062 = 1) THEN HP_PRNTL = .; /* <3 months pregnant now */
ELSE IF H10062 IN (1,2,3) THEN HP_PRNTL = 2; /* No */
END;

/* HP_MAMOG--FOR WOMEN AGE 40 AND OVER, HAD MAMMOGRAM W/IN PAST 2 YEARS */
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 40 THEN DO;
IF H10059 IN (5, 4) THEN HP_MAMOG = 1; /* Yes */
ELSE IF H10059 IN (1, 2, 3) THEN HP_MAMOG = 2; /* No */
END;

/* HP_MAM50--FOR WOMEN AGE 50 AND OVER, HAD MAMMOGRAM W/IN PAST 2 YEARS */
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 50 THEN DO;
IF H10059 IN (5, 4) THEN HP_MAM50 = 1; /* Yes */
ELSE IF H10059 IN (1, 2, 3) THEN HP_MAM50 = 2; /* No */
END;

/* HP_PAP--FOR ALL WOMEN, HAD PAP SMEAR IN LAST 3 YEARS */
IF XSEXA = 2 THEN DO;
IF H10057 IN (4, 5) THEN HP_PAP = 1; /* Yes */

```

```

ELSE IF H10057 IN (1, 2, 3) THEN HP_PAP = 2;          /* No */
END;

/* HP_BP--HAD BLOOD PRESSURE SCREENING IN LAST 2 YEARS AND KNOW RESULT */
IF H10048 IN (2,3) AND H10049 IN (1,2) THEN HP_BP = 1;  /* Yes */
ELSE IF H10048 = 1 THEN HP_BP = 2;                    /* No */
ELSE IF H10048 < 0 OR H10049 < 0 THEN HP_BP = .;      /* Unknown */
ELSE HP_BP = 2;                                        /* No */

/* HP_FLU--FOR PERSON AGE 65 OR OVER, HAD FLU SHOT IN LAST 12 MONTHS */
IF INPUT(FIELDAGE,8.) >= 65 THEN DO;
  IF H10050 = 4 THEN HP_FLU = 1;                        /* Yes */
  ELSE IF H10050 IN (1, 2, 3) THEN HP_FLU = 2;        /* No */
END;

/* HP_SMOKE--ADVISED TO QUIT SMOKING IN PAST 12 MONTHS */
IF H10053 IN (2, 3, 4, 5) THEN HP_SMOKE = 1;          /* Yes */
ELSE IF H10053 = 1 THEN HP_SMOKE = 2;                /* No */

/* KCIIVINS--IS BENEFICIARY COVERED BY PRIVATE CIVILIAN INSURANCE */
IF H10002G=1 OR H10002I=1 OR H10002J=1 THEN KCIIVINS=1; /* YES */ /*NJ_Q2*/
ELSE KCIIVINS=2;                                     /* NO */

/* Add code for smoking and smoking cessation counseling according to the HEDIS */
/* definition. Smoking variable is HP_SMOKH and smoking cessation counseling */
/* is HP_CESS. */
/* 1/16/09 Changed HP_SMOKH to HP_SMKH2 and HP_CESH to HP_CESH2 to account for */
/* HYY054 variable not appearing in V4 questionnaire. */
IF H10051 IN (1,2) THEN DO;
  IF H10051=1 AND (H10052=3 OR H10052=4) THEN HP_SMKH2=1; /* Yes */
  ELSE IF H10051=2 OR H10052 > 0 THEN HP_SMKH2=2;        /* No */
END;

if hp_smkh2=1 & H10053>0 then do;
  if H10053>1 then hp_cess2=1; /* Yes */
  else hp_cess2=2;           /* No */
end;

/* OUTCATCH -- OUT OF CATCHMENT AREA */
IF 9900 < CACSMPL < 9999 THEN OUTCATCH=1; /* Out of catchment area */
ELSE IF CACSMPL = 9999 THEN OUTCATCH=.;
ELSE OUTCATCH=0; /* Catchment area */

*****
* Calculate XBMI- Body Mass Index and XBMICAT- Body Mass Index Category
* BMI=Weight(in pounds)*703 divide by Height(in inch)*Height(in inch)
*****;

IF H10069F IN (.A,.O,.I,.B) THEN TSRHGTF=.; ELSE TSRHGTF=H10069F;
IF H10069I IN (.A,.O,.I,.B) THEN TSRHGTI=.; ELSE TSRHGTI=H10069I;
IF H10070 IN (.A,.O,.I,.B) THEN TSRWGT =.; ELSE TSRWGT =H10070;

IF TSRHGTF IN (.) OR
   TSRWGT IN (.) THEN XBMI=.;
ELSE DO;
  XBMI = ROUND((TSRWGT*703)/
               (SUM(TSRHGTF*12,TSRHGTI)*SUM(TSRHGTF*12,TSRHGTI)), .1);
END;

IF XBMI >= 100 THEN XBMI=.;

* FORMAT XBMI 5.1;

DROP TSRHGTF TSRHGTI TSRWGT;

/* JMA Dec 28 2006 changed to have same category as Healthy People 2010 where
there is no sex distinction */
IF XBMI = . THEN XBMICAT=.;
ELSE IF XBMI < 18.5 THEN XBMICAT=1; *Underweight;
ELSE IF XBMI < 25 THEN XBMICAT=2; *Normal Weight;
ELSE IF XBMI < 30 THEN XBMICAT=3; *Overweight;
ELSE IF XBMI < 40 THEN XBMICAT=4; *Obese;

```



```

ELSE                                XBMICAT=5; *Morbidly Obese;

/*ADD HP_OBESE VARIABLE. JMA 11/3/2005*/

IF XBMICAT=. THEN HP_OBESE=.;
ELSE IF XBMICAT IN (4,5) THEN HP_OBESE=1;    *OBESE ;
ELSE HP_OBESE=2;                            *NOT OBESE;

/*ADD XBENCAT JMA 1/22/2007 */
/*
Tricare Reserve Select and the increasing presence of inactive reservists and their dependents
in our data.
In order to accomodate them, we will need to create additional variables.
*/

IF DBENCAT='ACT' THEN XBENCAT=1;          *Active duty;
ELSE IF DBENCAT='DA' THEN XBENCAT=2;      *Active Duty family member;
ELSE IF DBENCAT='GRD' THEN XBENCAT=3;     *Active reservist;
ELSE IF DBENCAT='DGR' THEN XBENCAT=4;     *Dependent of Reservist;
ELSE IF DBENCAT='IGR' THEN XBENCAT=5;     *Inactive Reservist";
ELSE IF DBENCAT='IDG' THEN XBENCAT=6;     *Dependent of Inactive Guard";
ELSE IF DBENCAT IN ('RET','DR','DS') THEN DO;
    IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN XBENCAT=7;    *Retired or Dependent of Retiree <65;
    ELSE IF INPUT(FIELDAGE,8.) >= 65 THEN XBENCAT=8;    *Retired or Dependent of Retiree >=65;
END;

/*ADD XINS_RSV, XENR_RSV. JMA 1/22/2007 */
/*

We also need to redefine xins_cov, call it xins_rsv,
which is the same as xins_cov but where
reservists are separated from other active duty - xins_cov will =1 if active duty,
but not active reservist or inactive reservist.

Similarly we need xenr_rsv which is xenr_pcm but reservists will not be treated as active duty
ie xenr_pcm=1 if active duty but not reservist. We also need to define another category
for xins_rsv, xins_rsv=9 for tricare reserve select -we also need to account for the value
covered by insurance of another country - that should be classified as civilian insurance.
Use H10003 for this.

These new variables will be used in the beneficiary reports -
we will not start reporting on tricare reserve select separately until later in the year -
for now we will include it in std/extra
*/

/* XINS_RSV--INSURANCE COVERAGE DISTINGUISHING RESERVISTS FROM ACTIVE DUTY*/
IF XENRLLMT = 1 THEN DO;
    IF XBENCAT IN (1) THEN XINS_RSV =1;                                /* Prime <65-Active Duty
(Non reservists) */
    ELSE IF XBENCAT IN (3,5) THEN XINS_RSV=10;                        /* Prime <65-Active Duty
(Reservists) */
END;
ELSE IF 17 <= INPUT(FIELDAGE,8.) < 65 AND H10003 IN (1) THEN XINS_RSV = 2; /* Prime <65-Non-
active Duty */
ELSE IF H10003 =3 THEN XINS_RSV = 3;                                  /* Standard/Extra */
ELSE IF H10003 = 11 THEN XINS_RSV = 7;                               /* Plus and Medicare */
ELSE IF H10003 = 4 THEN XINS_RSV = 4;                               /* Medicare*/
ELSE IF H10003 IN (5,6, 7, 8, 9, 13) THEN XINS_RSV = 5;            /* Other civilian health
insurance*/
ELSE IF H10003 = 10 THEN XINS_RSV = 8;                               /* Veterans Administration
(VA) */
ELSE IF H10003 = 12 THEN XINS_RSV = 9;                               /* TRICARE Reserve Select */
ELSE IF (INPUT(FIELDAGE,8.)>= 65 AND XENRLLMT = 5 and H10003 = 1) THEN XINS_RSV = 6; /*
Prime, >= 65 */
ELSE IF H10072=1 AND H10073=1 AND H10003 NE .N THEN XINS_RSV = 4; /*
Medicare/Medicaid */

/* XENR_RSV--ENROLLMENT DISTINGUISHING RESERVISTS FROM ACTIVE DUTY */
IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN DO;
    IF INPUT(ENBGSMPL,8.) = 1 THEN DO;
        IF XBENCAT IN (1) THEN XENR_RSV = 1;                        /* Active duty (<65) Non
reservists */

```

```

ELSE IF XBENCAT IN (3,5) THEN XENR_RSV = 8; /* Active duty (<65)
Reservists */
END;
ELSE IF INPUT(ENBGSMPL,8.) IN (3, 6) THEN XENR_RSV = 2; /* Enrolled (<65) - mil PCM */
ELSE IF INPUT(ENBGSMPL,8.) IN (2, 5) THEN XENR_RSV = 3; /* Enrolled (<65) - civ PCM */
ELSE IF INPUT(ENBGSMPL,8.) IN (4, 7,11) THEN XENR_RSV = 4; /* Not Enrolled (<65) */
END;
ELSE IF INPUT(FIELDAGE,8.) >= 65 THEN DO;
IF INPUT(ENBGSMPL,8.) = 10 THEN XENR_RSV = 5; /* Not Enrolled (65+) */
IF INPUT(ENBGSMPL,8.) = 9 THEN XENR_RSV = 6; /* Enrolled (65+)-mil PCM */
IF INPUT(ENBGSMPL,8.) = 8 THEN XENR_RSV = 7; /* Enrolled (65+)-civ PCM */
END;

/*JMA Feb 5, 2010 Capping/Recode dageqy and fieldage by combining 18 and below and 86 and
above. */

IF INPUT(DAGEQY,8.)=. THEN RDAGEQY=. ;
ELSE IF INPUT(DAGEQY,8.) LT 18 THEN RDAGEQY=18;
ELSE IF INPUT(DAGEQY,8.) GT 86 THEN RDAGEQY=86;
ELSE RDAGEQY=INPUT(DAGEQY,8.);

IF INPUT(FIELDAGE,8.)=. THEN RFLDAGE=. ;
ELSE IF INPUT(FIELDAGE,8.) LT 18 THEN RFLDAGE=18;
ELSE IF INPUT(FIELDAGE,8.) GT 86 THEN RFLDAGE=86;
ELSE RFLDAGE=INPUT(FIELDAGE,8.);

RUN;

DATA CONVARQ2;
SET CONVARQ;
WHERE FNSTATUS=11;
RUN;

/* CHECK RECONSTRUCTED 2010 VARIABLES */
PROC FREQ DATA=CONVARQ2;
TABLES XENRLLMT XENR_PCM XINS_COV XBENCAT XENR_RSV XINS_RSV XREGION XTNEXREG
XBMICAT ENBGSMPL XBNFGRP
KMILOPQY KCIVOPQY HP_PRNTL HP_MAMOG HP_MAM50 HP_PAP HP_BP HP_FLU
HP_SMOKE KCIVINS OUTCATCH
HP_SMKH2 HP_CESH2 XBMI HP_OBESE XOCONUS SERVAREA
/ MISSING LIST;
TITLE3 'ONE WAY FREQUENCIES ON 2010 RECONSTRUCTED VARIABLES';
RUN;

/* CROSSTABS TO CHECK RECONSTRUCTION OF 2010 VARIABLES */
/* COLLAPSE AGE FOR CROSSTABS */
PROC FORMAT;
VALUE $AGE
"017" -< "065" = "LESS THAN 65"
"065" -< "120" = "65 OR OLDER"
"0" = "Out of range err"
" " = "Missing/unknown" ;

RUN;

PROC FREQ DATA=CONVARQ2;
TABLES
FIELDAGE*ENBGSMPL*XENRLLMT
FIELDAGE*ENBGSMPL*XENR_PCM
FIELDAGE*XENRLLMT*H10003*H10072*H10073*XINS_COV
DBENCAT*XBENCAT
FIELDAGE*ENBGSMPL*XENR_RSV*XENR_PCM
FIELDAGE*XENRLLMT*H10003*H10072*H10073*XINS_COV*XINS_RSV
XTNEXREG*XREGION*CACSMPL
XREGION*USA
FIELDAGE*ENBGSMPL*XBNFGRP
H10005*H10013*KMILOPQY
H10005*H10013*KCIVOPQY
H10060*H10061*H10062*HP_PRNTL
XSEXA*H10057*HP_PAP
H10048*H10049*HP_BP

```

```

FIELDAGE*H10050*HP_FLU
H10053*HP_SMOKE
H10002I*H10002J*H10002G*KCIVINS
OUTCATCH*CACSMPL
H10051*H10052*HP_SMKH2
HP_SMKH2*H10053*HP_CESH2
H10069F*H10069I*H10070*XBMI
XBMICAT*HP_OBESE
XREGION*XOCONUS*USA

/ MISSING LIST;
FORMAT XSEX HASEX. FIELDAGE $AGE.
      XBMICAT XBMICAT.
      ;
TITLE3 'CROSSTABS ON NEW VARIABLES';
RUN;

PROC FREQ DATA=CONVARQ2;
  tables XTNEXREG*XREGION*CACSMPL
         XTNEXREG*XREGION*CACSMPL*D_HEALTH*DCATCH
         ENBGSMP*CACSMPL*SERVAREA

         RDAGEQY*DAGEQY
         RFLDAGE*FIELDAGE

/ MISSING LIST;
run;

/* COLLAPSE FOR MAMMOGRAPHY, BREAST CANCER, AND PROSTATE XTABS*/
PROC FORMAT;
  VALUE $AGE2_
    "017" - "049" = "LESS THAN 50"
    "050" -< "120" = "50 OR OLDER"
    "0"      = "Out of range err"
    " "      = "Missing/unknown" ;

  VALUE $AGE3_
    "017" - "039" = "LESS THAN 40"
    "040" -< "120" = "40 OR OLDER"
    "0"      = "Out of range err"
    " "      = "Missing/unknown" ;
  RUN ;

PROC FREQ DATA=CONVARQ2;
  TABLES XSEX*FIELDAGE*H10059*HP_MAM50
          /MISSING LIST;
          FORMAT FIELDAGE $AGE2_. XSEX HASEX.;
RUN;

PROC FREQ DATA=CONVARQ2;
  TABLES XSEX*FIELDAGE*H10059*HP_MAMOG
          /MISSING LIST;
          FORMAT FIELDAGE $AGE3_. XSEX HASEX.;
RUN;

PROC CONTENTS DATA=OUT.CONVARQ;
RUN;

```

F.4.B Q4FY2010\PROGRAMS\CONSTRUCT\CONSTRUCT_CACSMPL.SAS - INCLUDE FILE FOR CONVARQ.SAS.

```

*****
*** Project: Health Care Survey of DoD Beneficiaries - Adult
*** Purpose: Create cacsmpl for the reporting purpose for adult survey
***
*** Program: construct_cacsmpl.sas
***
*** Inputs:  extract.sas7bdat:  Extracted DoD data set
***          TMA.sas7bdat:      DMIS information
***          frame_cacsmpl.inc:  Include file
***
*** Outputs: construct_cacsmpl.sas7bdat - the adult frame with cacsmpl in
***
*** Note: 01/03/2007 by Haixia Xu
***       This program is copied from q4fy2006 sampling,
***       and modified for Q2FY2007 to create the cacampl to be used for reporting, not for
***       sampling purpose
***
*****;

*** Set up options. ***;
options ls=132 ps=79 compress=yes nocenter;* mprint mlogic symbolgen;

*** Set up the input and output paths. ***;
libname ext   v9   "K:\Q4FY2010\"; /* extract.sas7bdat */
libname inTMA v9   "..\..\Data\AFinal"; /* TMA.sas7bdat */
libname out   "...\Data\AFinal"; /* construct_cacsmpl.sas7bdat */

*** Set up the titles. ***;
title1 'Program: Construct_cacsmpl.SAS';
title2 'Construct cacsmpl for reporting';

data frame;
set ext.extract;
run;

title4 'Freq of PPRECFLG in the frame';
proc freq data=frame;
tables PPRECFLG/ missing list;
run;

/* MER 06/22/09 Added the following blocks to */
/* facilitate merge of selectq with the frame.*/
/* Resulting dataset renamed sample instead of*/
/* frame. */
proc sort data=frame;
  by mprid;
run;

data sample;
  merge frame(in=a) selectq(in=b keep = mprid);
  by mprid;
  if b=1;
run;

*****
* Added q2 2003, Don and Keith created a template to be used each quarter;
* The code below and the include file construct cacsmpl
* and collapse historically small catchment areas;
*****;
data TMA (keep = geocell d_par d_fac d_instal d_health d_dmis servaff);
  set inTMA.TMA;
  ***Extract the facility service code variable(servaff) starting with the November 2004TMA
  spreadsheet in Q1,2005;
  rename facility_Type_Code=d_fac
         installation_Name=d_instal
         dmis_facility_Name=d_dmis
         facility_Service_Code=servaff ;
  length d_par $4.;
  d_par = DMIS_PARENT_ID;
  length geocell $4.;
  geocell = DMIS_ID;

```

```
length d_health $2.;
d_health = HEALTH_Service_region;
run;

title4 "Freq of servaff, d_fac in TMA spreadsheet";
proc freq data=TMA;
tables servaff d_fac/missing list;
run;

%include "construct_cacsmp1.inc" ;

data out.construct_cacsmp1;
set t_sample(keep=mprid cacsmp1); /* MER 06/22/09 renamed from t_framea */
run;

title4 'Freq of cacsmp1';
proc freq data=out.construct_cacsmp1;
tables cacsmp1/missing list;
run;

title4 'Information for the Sample';
proc contents data = out.construct_cacsmp1;
run;

***** The End *****;
```

F.4.C Q4FY2010\PROGRAMS\CONSTRUCT\CONSVAR0.SAS - INCLUDE FILE FOR CONVARQ.SAS.

```

*****
* PROGRAM:  CONSVAR0.SAS
* TASK:    1999 DOD HEALTH CARE SURVEY ANALYSIS (8676-100)
* PURPOSE: Create XREGION and CONUS
*
* WRITTEN: February 11, 2000
* MODIFIED: 1) February 23, 2000 By Keith Rathbun.  Converted into an include
*           file. Updated code accordingly.
*           2) February 26, 2001 By Keith Rathbun.  Added recode for CACSMPL
*           weighting purposes.
*           3) September 13, 2004 By Keith Rathbun. Added 6223 to XREGION=1.
*           4) September 15, 2004 By Keith Rathbun. Recoded XREGION=0 to missing.
*           5) September 28, 2004 By Jacqueline Agufa-Maloba. Created XTNEXREG.
*           6) February 9, 2005 by Lucy Lu. Fix catchment and xreg.
*           7) March 16,2005 by Jacqueline Agufa-Maloba. Update XREGION for
*           cases where CACSMPL=9901,9902,9903,9904. XREGION had a value of
*           17,18 or 19 and will be changed to values from the dataset
*           region_map01.sas7bdat
*           8) May 22, 2005 By Jacqueline Agufa. Added 0405 to XREGION=3 and
*           0231, 0407, 6215 to XREGION=9.
*           9) July 6, 2006 by Lucy Lu. Add XOCONUS (region 13,14,15) for Q3 FY2006
*           10) February 6, 2007 by Jacqueline Agufa. Moved the code to create SERVAREA from
*           MERGESYN.sas to here.
*           11) January 16, 2009 by Mike Rudacille. Changed CONUS variable name to USA
*
* NOTES: 1) This file needs to be included in the CONVARQ.SAS program.
*
*****
* Assign XREGION using CACSMPL
*****;
IF      CACSMPL IN (0035, 0036, 0037, 0066, 0067,
                  0068, 0069, 0081, 0086, 0100,
                  0123, 0306, 0310, 0321, 0326,
                  0330, 0385, 0413, 6201, 6223) THEN XREGION= 1;
ELSE IF CACSMPL IN (0089, 0090, 0091, 0092, 0120,
                  0121, 0122, 0124, 0335, 0378, 0387, 0432,
                  0433, 0508, 7143, 7286, 7294) THEN XREGION= 2;
ELSE IF CACSMPL IN (0039, 0041, 0045, 0046, 0047,
                  0048, 0049, 0050, 0051, 0101,
                  0103, 0104, 0105, 0337, 0356,
                  0405, 0422, 0511, 5191 ) THEN XREGION= 3;
ELSE IF CACSMPL IN (0001, 0002, 0003, 0004, 0038,
                  0042, 0043, 0073, 0074, 0107,
                  0297, 7139 ) THEN XREGION= 4;
ELSE IF CACSMPL IN (0055, 0056, 0060, 0061, 0095,
                  5195, 9905 ) THEN XREGION= 5;
ELSE IF CACSMPL IN (0013, 0062, 0064, 0096, 0097,
                  0098, 0109, 0110, 0112, 0113,
                  0114, 0117, 0118, 0338, 0363,
                  0364, 0365, 0366, 1350, 1587, 1592, 7236, 9906 ) THEN XREGION= 6;
ELSE IF CACSMPL IN (0008, 0009, 0010, 0079, 0083,
                  0084, 0085, 0108, 9907 ) THEN XREGION= 7;
ELSE IF CACSMPL IN (0031, 0032, 0033, 0053, 0057,
                  0058, 0059, 0075, 0076, 0077,
                  0078, 0093, 0094, 0106, 0119,
                  0129, 0252, 7200, 7293, 9908 ) THEN XREGION= 8;
ELSE IF CACSMPL IN (0018, 0019, 0024, 0026, 0029, 0030,
                  0131, 0213, 0231, 0248, 0407, 5205,
                  6215, 9909 ) THEN XREGION= 9;
ELSE IF CACSMPL IN (0014, 0015, 0028, 0235, 0250,
                  9910 ) THEN XREGION=10;
ELSE IF CACSMPL IN (0125, 0126, 0127, 0128, 0395, 1646,
                  9911 ) THEN XREGION=11;
ELSE IF CACSMPL IN (0052, 0280, 0287, 0534, 7043, 9912 ) THEN XREGION=12;
ELSE IF CACSMPL IN (0606, 0607, 0609, 0617, 0618,
                  0623, 0624, 0629, 0633, 0635,
                  0653, 0805, 0806, 0808, 0814,
                  8931, 8982, 9913 ) THEN XREGION=13;
ELSE IF CACSMPL IN (0610, 0612, 0620, 0621, 0622,
                  0637, 0638, 0639, 0640, 0802,
                  0804, 0853, 0862, 9914 ) THEN XREGION=14;

```

```

ELSE IF CACSMPL IN (0449, 0613, 0615, 0616, 9915 ) THEN XREGION=15;
ELSE IF CACSMPL IN (0005, 0006, 0203, 9916 ) THEN XREGION=16;
ELSE IF CACSMPL = 9999 THEN XREGION= . ;

*IF CACSMPL IN (9901,9902,9903,9904) THEN XREGION=D_HEALTH+0; *JMA 2/17/2005;

/* JMA 5/18/2005 These values were gotten from UpdateXregion.lst
We needed to update the missing XREGION for cases where CACSMPL IN
9901,9902,9903,9904
-per Eric Schone
-FOR Q1 2005
*/

IF CACSMPL IN (9901,9902,9903,9904) THEN DO;
IF D_HEALTH NOT IN ('00','17','18','19') THEN DO;
XREGION=INPUT(D_HEALTH,8.)+0;
END;
ELSE DO;
IF DCATCH IN ('0037', '0067', '0123', '0781', '0907',
'0908', '0920', '0921', '0922', '0930',
'0931', '0933', '0939', '0940', '0946',
'0995')
THEN XREGION=1;
ELSE IF DCATCH IN ('0124', '0934', '0996')
THEN XREGION=2;
ELSE IF DCATCH IN ('0039', '0048', '0105', '0911', '0941',
'0987')
THEN XREGION=3;
ELSE IF DCATCH IN ('0003', '0787', '0901', '0925', '0943',
'0988', '0989')
THEN XREGION=4;
ELSE IF DCATCH IN ('0055', '0056', '0061', '0782', '0783',
'0789', '0914', '0915', '0918', '0923',
'0936', '0950')
THEN XREGION=5;
ELSE IF DCATCH IN ('0113', '0904', '0937', '0990', '0993')
THEN XREGION=6;
ELSE IF DCATCH IN ('0785', '0929', '0932')
THEN XREGION=7;
ELSE IF DCATCH IN ('0078', '0784', '0788', '0906', '0917',
'0924', '0927', '0928', '0935', '0942',
'0945', '0951', '0974')
THEN XREGION=8;
ELSE IF DCATCH IN ('0029', '0786', '0986')
THEN XREGION=9;
ELSE IF DCATCH IN ('0014', '0985')
THEN XREGION=10;
ELSE IF DCATCH IN ('0125', '0938', '0948', '0973')
THEN XREGION=11;
ELSE IF DCATCH IN ('0912')
THEN XREGION=12;
ELSE IF DCATCH IN ('0957', '0958', '0960', '0964', '0966',
'0967', '0976', '0977', '0979',
'0982')
THEN XREGION=13;
ELSE IF DCATCH IN ('0006', '0052', '0640', '0961', '0963',
'0965', '0978', '0983')
THEN XREGION=14;
ELSE IF DCATCH IN ('0075', '0120', '0615', '0622', '0953',
'0970', '0971', '0972', '0975')
THEN XREGION=15;
ELSE IF DCATCH IN ('0902')
THEN XREGION=16;
/* ELSE IF DCATCH IN ('0999') AND DHSRGN IN ('13','14','15')
THEN XREGION=DHSRGN+0;
*/
END;

IF D_PAR = '0902' THEN XREGION=16;
IF XREGION = 0 THEN XREGION = . ;

*****

```

```

* Assign indicator of CONUS based on XREGION. CONUS stands for
* Continental United States it but includes both Alaska and Hawaii.
* 1/16/09 - Changed CONUS variable to USA.
*****;
IF      XREGION IN (1,2,3,4,5,6,7,8,9,10,11,12,16) THEN USA=1;
ELSE IF XREGION IN (13,14,15)                      THEN USA=0;
ELSE IF XREGION = .                                THEN USA=. ;

*****
* Assign XTNEXREG using XREGION
*****;
IF XREGION IN (1,2,5) THEN XTNEXREG=1;
ELSE IF XREGION IN (3,4,6) THEN XTNEXREG=2;
ELSE IF XREGION IN (7,8,9,10,11,12,16) THEN XTNEXREG=3;
ELSE IF XREGION IN (13,14,15) THEN XTNEXREG=4;
ELSE IF XREGION = . THEN DO; /* MER 03/23/10 - If XREGION is missing, set XTNEXREG = TNEXTREG */
  IF TNEXTREG = 'N' THEN XTNEXREG=1;
  ELSE IF TNEXTREG = 'S' THEN XTNEXREG=2;
  ELSE IF TNEXTREG = 'W' THEN XTNEXREG=3;
  ELSE IF TNEXTREG = 'O' THEN XTNEXREG=4;
  ELSE XTNEXREG=. ;
END;

*****
* CREATE XOCONUS FOR europe, pacific, latin america
* Lucy Lu 7/6/06
*****;

IF      XREGION=13 THEN XOCONUS=1;
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;

*****
* Construct SERVAREA.
*****;
IF ENBGSMPLE IN ('04','07','10') THEN DO;
  SELECT(CACSMPL);
    WHEN (0024,0029)          SERVAREA='01';
    WHEN (0032,0033)          SERVAREA='02';
    WHEN (0037,0066,0067,0123) SERVAREA='03';
    WHEN (0038,0042)          SERVAREA='04';
    WHEN (0049,0103,0104)     SERVAREA='05';
    WHEN (0091,0092)          SERVAREA='06';
    WHEN (0098,0113)          SERVAREA='07';
    WHEN (0101,0105)          SERVAREA='08';
    WHEN (0109,0117)          SERVAREA='09';
    WHEN (0120,0121,0124)     SERVAREA='10';
    WHEN (0125,0126,0127)     SERVAREA='11';
    OTHERWISE SERVAREA=' ';
  END;
END;

```


F.5.A Q4FY2010\PROGRAMS\CONSTRUCT\MERGEQ.SAS - MERGE CONSTRUCTED VARIABLES ONTO DATA FILE - RUN QUARTERLY

```

*****
* PROGRAM: MERGEQ.SAS
* WRITTEN: 1/28/00 BY KELLY WHITE
* MODIFIED: 3/1/00 BY NATALIE JUSTH
* MODIFIED: 11/16/00 BY JOAN JAMES
* MODIFIED: 1/30/01 BY NATALIE JUSTH
* MODIFIED: 6/6/01 BY NATALIE JUSTH FOR Q2 UPDATES
* MODIFIED: 8/20/01 BY NATALIE JUSTH FOR Q3 UPDATES
* MODIFIED: 12/13/01 BY NATALIE JUSTH FOR Q4 UPDATES
* MODIFIED: 2/11/02 By Daniele Beahm to delete H00077 variable and reassign format for
* S00S01 variable
* MODIFIED: 4/11/02 By JACLYN WONG FOR Q1 UPDATES
* MODIFIED: 6/21/02 by JACLYN WONG FOR Q2 UPDATES
* MODIFIED: 7/1/2002 By Daniele Beahm to delete SF8 variables not used for Q2 2002
* MODIFIED: 10/16/2002 By Daniele Beahm to delete Q2 2002 Supplemental vars that were on the
* Q3 2002 data file from NRC.
* MODIFIED: 01/02/2003 By Keith Rathbun: Added ONTIME variable to support the annual
* version of the database (trickle indicator). This ONTIME variable is
* only applicable to the annual file and thus should be deleted for the
* quarterly version of this program.
* MODIFIED: 3/24/02 by JACLYN WONG FOR Q1 2003 UPDATES. Added HP_SMOKH, HP_CESS, and KPRSCPTN
* MODIFIED: 8/29/03 by NATALIE JUSTH FOR Q3 2003 UPDATES
* MODIFIED: 12/19/03 by NATALIE JUSTH FOR Q4 2003 UPDATES
* MODIFIED: 3/29/04 BY LUCY LU FOR Q1 2004 UPDATES
* MODIFIED: 6/10/04 BY LUCY LU FOR Q2 2004 UPDATES
* MODIFIED: 9/13/04 BY LUCY LU FOR Q3 2004 UPDATES
* MODIFIED: 11/10/04 BY LUCY LU, DROP VARIABLE STIELIG.
* MODIFIED: 2/1/05 BY LUCY LU FOR Q4 2004 UPDATES
* MODIFIED: 2/17/2005 BY JACQUELINE AGUFA. Added code to get updated CACSMPL from
* REPWT.sd2
* MODIFIED: 5/3/05 BY LUCY LU FOR Q1 2005 UPDATES.
* MODIFIED: 10/24/05 BY LUCY LU FOR Q3 2005 UPDATES.
* MODIFIED: 11/1/05 BY J AGUFA. Dropped E1-E19
* MODIFIED: 12/21/05 BY LUCY LU FOR Q4 2005
* MODIFIED: 03/29/06 BY LUCY LU FOR Q2 FY 2006
* MODIFIED: 07/07/06 BY LUCY LU FOR q3 FY 2006
* MODIFIED: 10/07/06 BY LUCY LU FOR q4 FY 2006
* MODIFIED: 1/2/07 BY J AGUFA FOR q1 FY 2007
* MODIFIED: 3/29/07 BY J AGUFA FOR q2 FY 2007
* MODIFIED: 7/05/07 BY J AGUFA FOR q3 FY 2007
* MODIFIED: 1/22/08 BY J AGUFA FOR q1 FY 2007
* MODIFIED: 10/1/08 BY M RUDACILLE FOR q4 FY 2008
*
* PURPOSE: TO MERGE FINAL FILES TOGETHER AND REORDER BY VARIABLE TYPE
* To reorder variables within the record use a
* LENGTH statement before the SET statement.
* Make sure that MPRID is the first variable in the
* record followed by:
* 1) other sampling variables
* 2) DEERS variables
* 3) Post-stratification vars
* 4) questionnaire responses
* 5) DRC variables
* 6) recoded questionnaire responses
* 3) coding scheme flags
* 8) constructed variables
* 9) weights (NOT AVAILABLE FOR PRELIMINARY DATA)
* INPUT: ..\..\DATA\AFINAL\SELECTQ.sas7bdat
* INPUT: ..\..\DATA\AFINAL\CONVARQ.sas7bdat
* OUTPUT: ..\..\DATA\AFINAL\MERGEQ.sas7bdat
* INCLUDE: SERVAFF.SAS
* TO MERGE ON VARIABLE SERVAFF
*****
* ;
LIBNAME IN1 v9 '..\..\DATA\AFINAL';
LIBNAME OUT V9 '..\..\DATA\AFINAL';
LIBNAME LIBRARY '..\..\DATA\AFINAL\FMTLIB';

OPTIONS PS=78 LS=124 ERRORS=2 COMPRESS=YES ; *MPRINT;

```

```
%INCLUDE SERVAFF/SOURCE2;          *LLU 2/9/05;
```

```
PROC SORT DATA=IN1.SELECTQ OUT=SELECTQ;  
  BY MPRID;  
RUN;
```

```
PROC SORT DATA=IN1.CONVARQ OUT=CONVARQ;  
  BY MPRID;  
RUN;
```

```
PROC SORT DATA=IN1.SERVAFF OUT=SERVAFF;  
  BY MPRID;  
RUN;
```

```
PROC FREQ DATA=SERVAFF;  
  TABLES SERVAFF;  
RUN;
```

```
DATA MERGEQ (DROP =
```

```
H10001_O  
H10002AO  
H10002CO  
H10002NO  
H10002OO  
H10002PO  
H10002QO  
H10002FO  
H10002GO  
H10002HO  
H10002IO  
H10002JO  
H10002KO  
H10002MO  
H10002RO  
H10002LO  
H10003_O  
H10004_O  
H10005_O  
H10006_O  
H10007_O  
H10008_O  
H10009_O  
H10010_O  
H10011_O  
H10012_O  
H10013_O  
H10014_O  
H10015_O  
H10016_O  
H10017_O  
H10018_O  
H10019_O  
H10020_O  
H10021_O  
H10022_O  
H10023_O  
H10024_O  
H10025_O  
H10026_O  
H10027_O  
S10009_O  
S10010_O  
H10028_O  
H10029_O  
H10030_O  
H10031_O  
S10B01_O  
S10B02_O  
S10B03_O  
S10B04_O  
H10032_O
```

H10033_O
H10034BO
H10034_O
H10035_O
H10036_O
H10037_O
H10038_O
H10039_O
H10040_O
H10041_O
H10042_O
H10043_O
H10044_O
H10045_O
H10046_O
H10047_O
S10R01_O
S10R02_O
S10R03AO
S10R03BO
S10R03CO
S10R03DO
S10R03EO
S10R04AO
S10R04BO
S10R04CO
S10R04DO
S10R04EO
S10R04FO
S10R04GO
S10R05_O
S10R06_O
S10R07_O
S10R08_O
S10R09_O
S10R10_O
S10R11_O
S10R12_O
S10R13_O
S10R14_O
S10R15_O
H10048_O
H10049_O
H10050_O
H10051_O
H10052_O
H10053_O
H10054_O
H10055_O
S10D03_O
S10D02_O
S10D05_O
H10056_O
H10057_O
H10058_O
H10059_O
H10060_O
H10061_O
H10062_O
H10063_O
H10064_O
H10065_O
H10066_O
H10067_O
H10068_O
H10069FO
H10069IO
H10070_O

H10069FN
H10069IN
H10070N

SREDA_O

H10071AO
H10071BO
H10071CO
H10071DO
H10071EO
SRRACEAO
SRRACEBO
SRRACECO
SRRACEDO
SRRACEEO
SRAGE_O
H10072_O
H10073_O
H10074_O
S10011_O
S10014_O
PRRECFLG

D_DMIS
DMIS
R_MTF
GROUP
GRP_GEO

);

```
MERGE SELECTQ(in=hcsdb rename=(flag_fin=dummy))
      CONVARQ
      SERVAFF(DROP=PCM DCATCH);
BY MPRID;
if hcsdb;
```

/*MAKE FLAG_FIN IN Q3 CHARACTER*/

```
FLAG_FIN=PUT(DUMMY,5.);          /*LLU 2/9/05*/
DROP DUMMY;
```

FORMAT

```
SERVAFF  $SERVAFF.
ENBGSMPL $ENBGSMPL.
CACSMPL  CAC.
DBENCAT  $DBENCAT.
DMEDELG  $DMEDELG.
DSPONSVC $DSPONSVC.
FLAG_FIN $FLAG_FIN.
FNSTATUS $FNSTATUS.
MBRRELCD $MBRRELCD.
MEDTYPE  $MEDTYPE.
MRTLSTAT $MRTLSTAT.
PATCAT   $PATCAT.
MISS_1   $MISS_1.
MISS_3   $MISS_3.
MISS_4   $MISS_4.
MISS_5   $MISS_5.
MISS_6   $MISS_6.
MISS_7   $MISS_7.
MISS_9   $MISS_9.
MISS_TOT $MISS_TOT.
PCM      $PCM.
PNLCATCD $PNLCATCD.
PNSEXCD  $PNSEXCD.
RACEETHN $RACEETHN.
SEXSMPL  $SEXSMPL.
SVCSMPL  $SVCSMPL.
XSEXA    $XSEXA.
SERVAREA $SERVAREA.
MPCSMPL  $MPCSMPL.
D_HEALTH $D_HEALTH.
TNEXREG  $TNEXREG.
D_FAC    $D_FAC.
MSM      $MSM.
XBMICAT  $XBMICAT.
ENRID    $ENRID.
```

```

WEB          WEB.
XOCONUS     XOCONUS.
ACV         $ACV2_.

XSERVAFF   XSERVAFF.

PNTYPCD    $PNTYPCD.

MPRID      $8.          /*Remove extra format space ($43) provided by NRC*/
;

LABEL
ENBGSMPL = "Enrollment by beneficiary category"
SERVAFF  = "Service Affiliation"
MPCSMPL  = "MPCSMPL - Military Personnel Category"
FLAG_FIN = "Final Disposition"
CACSMPL  = "Catchment Area"
WEB      = "Web survey indicator"
D_PAR    = "DMIS Parent ID"
D_Health = "Health Service Region"
TNEXREG  = "TNEX Region - Based on Address"
MSM      = 'Multiple Service Market Areas'
MIQCNTL  = 'Synovate ID'
XSERVAFF = "Service Affiliation"
SERVAREA = 'Service Area'
COM_GEO  = "Catchment Area"
;

RUN;

PROC CONTENTS DATA=MERGEQ;
RUN;

DATA OUT.MERGEQ;

LENGTH

MPRID      $ 8          /* ID */
SVCSMPL    8           /* sampling variable */
SEXSMPL    8           /* sampling variable */
STRATUM    $ 7         /* sampling variable */
CACSMPL    8           /* sampling variable */
ENBGSMPL   $ 2         /* sampling variable */
MPCSMPL    8           /* sampling variable */
NHFF       8           /* sampling variable */
SERVAREA   $ 2         /* sampling variable */
QUARTER    $ 8         /* sampling variable */
PRN        8           /* sampling variable */
DCATCH     $ 4         /* sampling variable */
ENRID      $ 4         /* sampling variable */
DMIS_ID    $ 9         /* sampling variable */
MSM        $ 2         /* sampling variable */
D_FAC      $ 9         /* sampling variable */
D_PAR      $ 4         /* sampling variable */
D_HEALTH   $ 2         /* sampling variable */
TNEXREG    $ 1         /* sampling variable */
SERVAFF    $ 1         /* sampling variable */
BWT        8           /* sampling variable */
COM_GEO    $ 4         /* sampling variable */ /* MER 7/20/10 - Added to sampling vars
so it won't be */
/* at the end of the proc contents by
default anymore. */
/* This variable gets dropped in
ADDWGTTSA.sas. */

MRTLSTAT   $ 1         /* DEERS variable */
RACEETHN   $ 1         /* DEERS variable */
PNSEXCD    $ 1         /* DEERS variable */
DAGEQY     $ 3         /* DEERS variable */
RDAGEQY    3          /* DEERS variable */
FIELDAGE   $ 3         /* DEERS variable */
RFLDAGE    3          /* DEERS variable */

```

PCM	\$ 3	/* DEERS variable	*/
ACV	\$ 1	/* DEERS variable	*/
DBENCAT	\$ 3	/* DEERS variable	*/
DMEDELG	\$ 1	/* DEERS variable	*/
DSPONSVC	\$ 1	/* DEERS variable	*/
MBRRELCD	\$ 1	/* DEERS variable	*/
MEDTYPE	\$ 1	/* DEERS variable	*/
PATCAT	\$ 7	/* DEERS variable	*/
PNTYPCD	\$ 1	/* DEERS variable	*/
PNLCATCD	\$ 1	/* DEERS variable	*/

H10001	4	/* questionnaire	*/
H10002A	4	/* questionnaire	*/
H10002C	4	/* questionnaire	*/
H10002N	4	/* questionnaire	*/
H10002O	4	/* questionnaire	*/
H10002P	4	/* questionnaire	*/
H10002Q	4	/* questionnaire	*/
H10002F	4	/* questionnaire	*/
H10002G	4	/* questionnaire	*/
H10002H	4	/* questionnaire	*/
H10002I	4	/* questionnaire	*/
H10002J	4	/* questionnaire	*/
H10002K	4	/* questionnaire	*/
H10002M	4	/* questionnaire	*/
H10002R	4	/* questionnaire	*/
H10002L	4	/* questionnaire	*/
H10003	4	/* questionnaire	*/
H10004	4	/* questionnaire	*/
H10005	4	/* questionnaire	*/
H10006	4	/* questionnaire	*/
H10007	4	/* questionnaire	*/
H10008	4	/* questionnaire	*/
H10009	4	/* questionnaire	*/
H10010	4	/* questionnaire	*/
H10011	4	/* questionnaire	*/
H10012	4	/* questionnaire	*/
H10013	4	/* questionnaire	*/
H10014	4	/* questionnaire	*/
H10015	4	/* questionnaire	*/
H10016	4	/* questionnaire	*/
H10017	4	/* questionnaire	*/
H10018	4	/* questionnaire	*/
H10019	4	/* questionnaire	*/
H10020	4	/* questionnaire	*/
H10021	4	/* questionnaire	*/
H10022	4	/* questionnaire	*/
H10023	4	/* questionnaire	*/
H10024	4	/* questionnaire	*/
H10025	4	/* questionnaire	*/
H10026	4	/* questionnaire	*/
H10027	4	/* questionnaire	*/
H10028	4	/* questionnaire	*/
H10029	4	/* questionnaire	*/
H10030	4	/* questionnaire	*/
H10031	4	/* questionnaire	*/
H10032	4	/* questionnaire	*/
H10033	4	/* questionnaire	*/
H10034B	4	/* questionnaire	*/
H10034	4	/* questionnaire	*/
H10035	4	/* questionnaire	*/
H10036	4	/* questionnaire	*/
H10037	4	/* questionnaire	*/
H10038	4	/* questionnaire	*/
H10039	4	/* questionnaire	*/
H10040	4	/* questionnaire	*/
H10041	4	/* questionnaire	*/
H10042	4	/* questionnaire	*/
H10043	4	/* questionnaire	*/
H10044	4	/* questionnaire	*/
H10045	4	/* questionnaire	*/
H10046	4	/* questionnaire	*/
H10047	4	/* questionnaire	*/

H10048	4	/* questionnaire	*/
H10049	4	/* questionnaire	*/
H10050	4	/* questionnaire	*/
H10051	4	/* questionnaire	*/
H10052	4	/* questionnaire	*/
H10053	4	/* questionnaire	*/
H10054	4	/* questionnaire	*/
H10055	4	/* questionnaire	*/
H10056	4	/* questionnaire	*/
H10057	4	/* questionnaire	*/
H10058	4	/* questionnaire	*/
H10059	4	/* questionnaire	*/
H10060	4	/* questionnaire	*/
H10061	4	/* questionnaire	*/
H10062	4	/* questionnaire	*/
H10063	4	/* questionnaire	*/
H10064	4	/* questionnaire	*/
H10065	4	/* questionnaire	*/
H10066	4	/* questionnaire	*/
H10067	4	/* questionnaire	*/
H10068	4	/* questionnaire	*/
H10069F	4	/* questionnaire	*/
H10069I	4	/* questionnaire	*/
H10070	4	/* questionnaire	*/
SREDA	4	/* questionnaire	*/
H10071	4	/* questionnaire	*/
H10071A	4	/* questionnaire	*/
H10071B	4	/* questionnaire	*/
H10071C	4	/* questionnaire	*/
H10071D	4	/* questionnaire	*/
H10071E	4	/* questionnaire	*/
SRRACEA	4	/* questionnaire	*/
SRRACEB	4	/* questionnaire	*/
SRRACEC	4	/* questionnaire	*/
SRRACED	4	/* questionnaire	*/
SRRACEE	4	/* questionnaire	*/
SRAGE	4	/* questionnaire	*/
H10072	4	/* questionnaire	*/
H10073	4	/* questionnaire	*/
H10074	4	/* questionnaire	*/
S10009	4	/* supplemental	*/
S10010	4	/* supplemental	*/
S10B01	4	/* supplemental	*/
S10B02	4	/* supplemental	*/
S10B03	4	/* supplemental	*/
S10B04	4	/* supplemental	*/
S10R01	4	/* supplemental	*/
S10R02	4	/* supplemental	*/
S10R03A	4	/* supplemental	*/
S10R03B	4	/* supplemental	*/
S10R03C	4	/* supplemental	*/
S10R03D	4	/* supplemental	*/
S10R03E	4	/* supplemental	*/
S10R04A	4	/* supplemental	*/
S10R04B	4	/* supplemental	*/
S10R04C	4	/* supplemental	*/
S10R04D	4	/* supplemental	*/
S10R04E	4	/* supplemental	*/
S10R04F	4	/* supplemental	*/
S10R04G	4	/* supplemental	*/
S10R05	4	/* supplemental	*/
S10R06	4	/* supplemental	*/
S10R07	4	/* supplemental	*/
S10R08	4	/* supplemental	*/
S10R09	4	/* supplemental	*/
S10R10	4	/* supplemental	*/
S10R11	4	/* supplemental	*/
S10R12	4	/* supplemental	*/
S10R13	4	/* supplemental	*/
S10R14	4	/* supplemental	*/
S10R15	4	/* supplemental	*/
S10D03	4	/* supplemental	*/
S10D02	4	/* supplemental	*/

S10D05	4	/* supplemental	*/
S10011	4	/* supplemental	*/
S10014	4	/* supplemental	*/
ONTIME	\$ 3	/* Survey fielding variable	*/
FLAG_FIN	\$ 5	/* Survey fielding variable	*/
DUPFLAG	\$ 3	/* Survey fielding variable	*/
FNSTATUS	8	/* Survey fielding variable	*/
KEYCOUNT	8	/* Survey fielding variable	*/
WEB	8	/* Survey fielding variable	*/
MIQCNTL	\$ 12	/* Survey fielding variable	*/
N1	8	/* CS flag variable	*/
N2	8	/* CS flag variable	*/
N3	8	/* CS flag variable	*/
N4	8	/* CS flag variable	*/
N5	8	/* CS flag variable	*/
N6	8	/* CS flag variable	*/
N7	8	/* CS flag variable	*/
N8	8	/* CS flag variable	*/
N8A1	8	/* CS flag variable	*/
N9	8	/* CS flag variable	*/
N10	8	/* CS flag variable	*/
N10A1	8	/* CS flag variable	*/
N11	8	/* CS flag variable	*/
N11B	8	/* CS flag variable	*/
N12	8	/* CS flag variable	*/
N13	8	/* CS flag variable	*/
N14	8	/* CS flag variable	*/
N15	8	/* CS flag variable	*/
N16	8	/* CS flag variable	*/
N16C1	8	/* CS flag variable	*/
N16C2	8	/* CS flag variable	*/
N16C3	8	/* CS flag variable	*/
N16C4	8	/* CS flag variable	*/
N17	8	/* CS flag variable	*/
N18	8	/* CS flag variable	*/
N19A	8	/* CS flag variable	*/
N19B	8	/* CS flag variable	*/
N20	8	/* CS flag variable	*/
N21	8	/* CS flag variable	*/
N22	8	/* CS flag variable	*/
N23	8	/* CS flag variable	*/
N24	8	/* CS flag variable	*/
MISS_1	8	/* CS Count	*/
MISS_3	8	/* CS Count	*/
MISS_4	8	/* CS Count	*/
MISS_5	8	/* CS Count	*/
MISS_6	8	/* CS Count	*/
MISS_7	8	/* CS Count	*/
MISS_9	8	/* CS Count	*/
MISS_TOT	8	/* CS Count	*/
XENRLLMT	8	/* constructed	*/
XENR_PCM	8	/* constructed	*/
XINS_COV	8	/* constructed	*/
XBENCAT	8	/* constructed	*/
XENR_RSV	8	/* constructed	*/
XINS_RSV	8	/* constructed	*/
XREGION	3	/* constructed	*/
XTNEXREG	3	/* constructed	*/
USA	3	/* constructed	*/
XOCONUS	3	/* constructed	*/
OUTCATCH	8	/* constructed	*/
XSEXA	8	/* constructed	*/
XBMI	8	/* constructed	*/
XBMICAT	3	/* constructed	*/
XBNFGRP	8	/* constructed	*/
XSERVAFF	3	/* constructed	*/
KMILOPQY	8	/* constructed	*/
KCIVOPQY	8	/* constructed	*/
KCIVINS	8	/* constructed	*/
HP_PRNTL	8	/* constructed	*/


```

HP_MAMOG      8      /* constructed */
HP_MAM50      8      /* constructed */
HP_PAP        8      /* constructed */
HP_BP         8      /* constructed */
HP_FLU        8      /* constructed */
HP_OBESE     8      /* constructed */
HP_SMOKE     8      /* constructed */
HP_SMKH2     8      /* constructed */
HP_CESH2     8      /* constructed */
;

SET MERGEQ;

RUN;

PROC CONTENTS DATA=OUT.MERGEQ POSITION;
  title "HCSDB for Q4 FY 2010, ordered by variable type";
RUN;

PROC FREQ DATA=OUT.MERGEQ;
TABLE PCM ACV CACSMPL /MISSPRINT;
RUN;

```

F.5.B Q4FY2010\PROGRAMS\CONSTRUCT\SERVAFF.SAS - MERGE SERVAFF VARIABLE TO QUARTERLY DATA FILE.

```

/*****
/* PROJECT: 8687-100 (DOD QUARTERLY 2001) */
/* AUTHOR: NATALIE JUSTH */
/* DATE: APRIL 24, 2001 */
/* UPDATED: JUNE 5, 2001 FOR QUARTER 2 */
/* UPDATED: AUGUST 20, 2001 FOR QUARTER 3 */
/* UPDATED: DECEMBER 13, 2001 FOR QUARTER 4 */
/* UPDATED: JANUARY 23, 2002 FOR MOVE TO DOD COMPUTER */
/* UPDATED: FEBUARY 1, 2005 FOR Q4, 2004 */
/*
/* PURPOSE: MERGE VARIABLE SERVAFF TO QUARTERLY DATASET */
/* INPUT: ... \DATA\AFINAL\S200204.sas7bdat */
/* ... \DATA\AFINAL\SAMPLA02.sas7bdat */
/* OUTPUT: ... \DATA\AFINAL\SERVAFF.sas7bdat */
*****/

LIBNAME INr "K:\Q4FY2010\"; /*Restricted folder*/
LIBNAME TMA V9 '..\..\DATA\AFINAL';
LIBNAME serv V9 '..\..\DATA\AFINAL';

/* Create new DMIS merge variable */
/* First use ENRID, then ULOCDMIS, then DCATCH */

DATA SAMPLA02(KEEP=DMIS_ID ENRID MSM MPRID PCM DCATCH);
SET INr.SAMPLA02;
LENGTH DMIS_ID $9;
DMIS_ID=ENRID;
IF DMIS_ID=' ' THEN DO;
    IF ULOCDMIS NE ' ' THEN DMIS_ID=ULOCDMIS;
    ELSE DMIS_ID=DCATCH;
END;

*****
* Construct MSM.
*****

IF PCM = 'MTF' THEN DO;
    SELECT(DMIS_ID);
        WHEN ('0037', '0066', '0067', '0068', '0069',
              '0123', '0256', '0306', '0309', '0385', '0413') MSM='01';
        WHEN ('0120', '0121', '0124') MSM='02';
        WHEN ('0089', '0335') MSM='03';
        WHEN ('0103', '0356') MSM='04';
        WHEN ('0101', '0105') MSM='05';
        WHEN ('0297', '0316', '0436', '0654', '1990', '0073') MSM='06';
        WHEN ('0109', '0117', '0363', '0366') MSM='07';
        WHEN ('0032', '0033', '0252', '7200') MSM='08';
        WHEN ('0024', '0029') MSM='09';
        WHEN ('0125', '0126', '0127', '0395', '7138') MSM='10';
        WHEN ('0052', '0280', '0287') MSM='11';
        WHEN ('0204', '0006') MSM='12';
        WHEN ('0005', '0203') MSM='13';
        OTHERWISE MSM=' ';
    END;
ELSE DO;
    SELECT(DCATCH);
        WHEN ('0037', '0066', '0067', '0068', '0069',
              '0123', '0256', '0306', '0309', '0385', '0413') MSM='01';
        WHEN ('0120', '0121', '0124') MSM='02';
        WHEN ('0089', '0335') MSM='03';
        WHEN ('0103', '0356') MSM='04';
        WHEN ('0101', '0105') MSM='05';
        WHEN ('0297', '0316', '0436', '0654', '1990', '0073') MSM='06';
        WHEN ('0109', '0117', '0363', '0366') MSM='07';
        WHEN ('0032', '0033', '0252', '7200') MSM='08';
        WHEN ('0024', '0029') MSM='09';
        WHEN ('0125', '0126', '0127', '0395', '7138') MSM='10';

```

```

        WHEN ('0052', '0280', '0287')           MSM='11';
        WHEN ('0204', '0006')                   MSM='12';
        WHEN ('0005', '0203')                   MSM='13';
        OTHERWISE MSM='  ';
    END;
END;

RUN;

PROC PRINT DATA=SAMPLA02(OBS=50);
RUN;

PROC SORT DATA=SAMPLA02;
    BY DMIS_ID;
RUN;

PROC SORT DATA=TMA.TMA(KEEP=DMIS_ID FACILITY_SERVICE_CODE) OUT=TMA; /*LLU 5/11/05*/
    BY DMIS_ID;
RUN;

DATA SERV.SERVAFF;
    MERGE SAMPLA02(IN=IN1)
        TMA(RENAME=(FACILITY_SERVICE_CODE=SERVAFF));
    BY DMIS_ID;

    /* JMA 5/22/2006 Created numeric version of servaff */

    LENGTH XSERVAFF 3;

    IF SERVAFF='A' THEN XSERVAFF=1; *Army;
    IF SERVAFF='F' THEN XSERVAFF=2; *Air Force;
    IF SERVAFF='N' THEN XSERVAFF=3; *Navy;

    /**Coast Guard, Administrative, Support Contractor, USTF, Noncatchment,
    Other, Not available, Missing/unknown
    *** will collapsed to other per Eric Shone ***/

    IF SERVAFF IN ('C' 'J' 'M' 'T' 'S' 'O' 'X' ' ') THEN XSERVAFF=4; *Other;

    IF IN1;
RUN;

PROC PRINT DATA=SERV.SERVAFF(OBS=200);
RUN;

PROC CONTENTS DATA=SERV.SERVAFF; RUN;

```

F.5.C Q1FY2010\PROGRAMS\CONSTRUCT\MERGEQ.SAS - MERGE CONSTRUCTED VARIABLES ONTO DATA FILE.

```

*****
* PROGRAM: MERGEQ.SAS
* WRITTEN: 1/28/00 BY KELLY WHITE
* MODIFIED: 3/1/00 BY NATALIE JUSTH
* MODIFIED: 11/16/00 BY JOAN JAMES
* MODIFIED: 1/30/01 BY NATALIE JUSTH
* MODIFIED: 6/6/01 BY NATALIE JUSTH FOR Q2 UPDATES
* MODIFIED: 8/20/01 BY NATALIE JUSTH FOR Q3 UPDATES
* MODIFIED: 12/13/01 BY NATALIE JUSTH FOR Q4 UPDATES
* MODIFIED: 2/11/02 By Daniele Beahm to delete H00077 variable and reassign format for
* S00S01 variable
* MODIFIED: 4/11/02 By JACLYN WONG FOR Q1 UPDATES
* MODIFIED: 6/21/02 by JACLYN WONG FOR Q2 UPDATES
* MODIFIED: 7/1/2002 By Daniele Beahm to delete SF8 variables not used for Q2 2002
* MODIFIED: 10/16/2002 By Daniele Beahm to delete Q2 2002 Supplemental vars that were on the
* Q3 2002 data file from NRC.
* MODIFIED: 01/02/2003 By Keith Rathbun: Added ONTIME variable to support the annual
* version of the database (trickle indicator). This ONTIME variable is
* only applicable to the annual file and thus should be deleted for the
* quarterly version of this program.
* MODIFIED: 3/24/02 by JACLYN WONG FOR Q1 2003 UPDATES. Added HP_SMOKH, HP_CESS, and KPRSCPTN
* MODIFIED: 8/29/03 by NATALIE JUSTH FOR Q3 2003 UPDATES
* MODIFIED: 12/19/03 by NATALIE JUSTH FOR Q4 2003 UPDATES
* MODIFIED: 3/29/04 BY LUCY LU FOR Q1 2004 UPDATES
* MODIFIED: 6/10/04 BY LUCY LU FOR Q2 2004 UPDATES
* MODIFIED: 9/13/04 BY LUCY LU FOR Q3 2004 UPDATES
* MODIFIED: 11/10/04 BY LUCY LU, DROP VARIABLE STIELIG.
* MODIFIED: 2/1/05 BY LUCY LU FOR Q4 2004 UPDATES
* MODIFIED: 2/17/2005 BY JACQUELINE AGUFA. Added code to get updated CACSMPL from
* REPWT.sd2
* MODIFIED: 5/3/05 BY LUCY LU FOR Q1 2005 UPDATES.
* MODIFIED: 10/24/05 BY LUCY LU FOR Q3 2005 UPDATES.
* MODIFIED: 11/1/05 BY J AGUFA. Dropped E1-E19
* MODIFIED: 12/21/05 BY LUCY LU FOR Q4 2005
* MODIFIED: 03/29/06 BY LUCY LU FOR Q2 FY 2006
* MODIFIED: 07/07/06 BY LUCY LU FOR q3 FY 2006
* MODIFIED: 10/07/06 BY LUCY LU FOR q4 FY 2006
* MODIFIED: 1/2/07 BY J AGUFA FOR q1 FY 2007
* MODIFIED: 3/29/07 BY J AGUFA FOR q2 FY 2007
* MODIFIED: 7/05/07 BY J AGUFA FOR q3 FY 2007
* MODIFIED: 1/22/08 BY J AGUFA FOR q1 FY 2007
* MODIFIED: 10/1/08 BY M RUDACILLE FOR q4 FY 2008
*
* PURPOSE: TO MERGE FINAL FILES TOGETHER AND REORDER BY VARIABLE TYPE
* To reorder variables within the record use a
* LENGTH statement before the SET statement.
* Make sure that MPRID is the first variable in the
* record followed by:
* 1) other sampling variables
* 2) DEERS variables
* 3) Post-stratification vars
* 4) questionnaire responses
* 5) DRC variables
* 6) recoded questionnaire responses
* 3) coding scheme flags
* 8) constructed variables
* 9) weights (NOT AVAILABLE FOR PRELIMINARY DATA)
* INPUT: ..\..\DATA\AFINAL\SELECTQ.sas7bdat
* INPUT: ..\..\DATA\AFINAL\CONVARQ.sas7bdat
* INPUT: ..\..\DATA\AFINAL\CONVARSF.sas7bdat
* OUTPUT: ..\..\DATA\AFINAL\MERGEQ.sas7bdat
* INCLUDE: SERVAFF.SAS
* TO MERGE ON VARIABLE SERVAFF
*****
* ;
LIBNAME IN1 v9 '..\..\DATA\AFINAL';
LIBNAME OUT v9 '..\..\DATA\AFINAL';
LIBNAME LIBRARY '..\..\DATA\AFINAL\FMTLIB';

OPTIONS PS=78 LS=124 ERRORS=2 COMPRESS=YES ; *MPRINT;

```

```
%INCLUDE SERVAFF/SOURCE2;          *LLU 2/9/05;
```

```
PROC SORT DATA=IN1.SELECTQ OUT=SELECTQ;  
  BY MPRID;  
RUN;
```

```
PROC SORT DATA=IN1.CONVARQ OUT=CONVARQ;  
  BY MPRID;  
RUN;
```

```
PROC SORT DATA=IN1.SERVAFF OUT=SERVAFF;  
  BY MPRID;  
RUN;
```

```
PROC FREQ DATA=SERVAFF;  
  TABLES SERVAFF;  
RUN;
```

```
DATA MERGEQ (DROP =
```

```
H10001_O  
H10002AO  
H10002CO  
H10002NO  
H10002OO  
H10002PO  
H10002QO  
H10002FO  
H10002GO  
H10002HO  
H10002IO  
H10002JO  
H10002KO  
H10002MO  
H10002RO  
H10002LO  
H10003_O  
H10004_O  
H10005_O  
H10006_O  
H10007_O  
H10008_O  
H10009_O  
H10010_O  
H10011_O  
H10012_O  
H10013_O  
H10014_O  
H10015_O  
H10016_O  
H10017_O  
H10018_O  
H10019_O  
H10020_O  
H10021_O  
H10022_O  
H10023_O  
H10024_O  
H10025_O  
H10026_O  
H10027_O  
S10009_O  
S10010_O  
H10028_O  
H10029_O  
H10030_O  
H10031_O  
S10B01_O  
S10B02_O  
S10B03_O  
S10B04_O  
H10032_O
```

H10033_O
H10034BO
H10034_O
H10035_O
H10036_O
H10037_O
H10038_O
H10039_O
H10040_O
H10041_O
H10042_O
H10043_O
H10044_O
H10045_O
H10046_O
H10047_O
S10G18_O
S10G19_O
S10G23_O
S10G27_O
S10G28_O
S10G29AO
S10G29BO
S10G29CO
S10G29DO
S10G29EO
S10G29FO
S10G29GO
S10G29HO
S10G29IO
S10G29JO
S10G29KO
S10G30_O
S10G31_O
S10G32_O
S10G33_O
S10G34_O
S10G35_O
S10G40_O
S10G41_O
S10G42_O
S10G43_O
H10048_O
H10049_O
H10050_O
H10051_O
H10052_O
H10053_O
H10054_O
H10055_O
S10D03_O
S10D02_O
H10056_O
H10057_O
H10058_O
H10059_O
H10060_O
H10061_O
H10062_O
H10063_O
H10064_O
H10065_O
H10066_O
H10067_O
H10068_O
S10B23_O
S10B24_O
S10B25_O
S10B26_O
H10069FO
H10069IO
H10070_O

H10069FN

H10069IN
H10070N

S10B22_O
SREDA_O
H10071AO
H10071BO
H10071CO
H10071DO
H10071EO
SRRACEAO
SRRACEBO
SRRACECO
SRRACEDO
SRRACEEO
SRAGE_O
H10072_O
H10073_O
H10074_O
S10011_O
S10014_O
PRRECLG

D_DMIS
DMIS
R_MTF
GROUP
GRP_GEO

);

```
MERGE SELECTQ(in=hcsdb rename=(flag_fin=dummy))
  CONVARQ
  SERVAFF(DROP=PCM DCATCH);
BY MPRID;
if hcsdb;
```

```
/*MAKE FLAG_FIN IN Q3 CHARACTER*/
FLAG_FIN=PUT(DUMMY,5.);          /*LLU 2/9/05*/
DROP DUMMY;
```

FORMAT

```
SERVAFF $SERVAFF.
ENBGSMPL $ENBGS.
CACSMPL CAC.
DBENCAT $BENCAT.
DMEDELG $MEDELG.
DSPONSVC $SPONSVC.
FLAG_FIN $FINAL.
FNSTATUS FNSTATS.
MBRRELCD $MBRREL.
MEDTYPE $MEDTYP.
MRTLSTAT $MSTATUS.
PATCAT $AGGBCAT.
MISS_1 HAMISS.
MISS_4 HAMISS.
MISS_5 HAMISS.
MISS_6 HAMISS.
MISS_7 HAMISS.
MISS_8 HAMISS.
MISS_9 HAMISS.
MISS_TOT HAMISS.
PCM $PCM.
PNLCATCD $PNLCAT.
PNSEXCD $SEXCD.
RACEETHN $RACECD.
SEXSMPL SEX.
SVCSMPL SVCSMPL.
XSEXA HASEX.
SERVAREA $SRVAREA.
MPCSMPL MPCSMPL.
D_HEALTH $DHEALTH.
```

```

TNEXREG $TNEXREG.
D_FAC $DFAC.
MSM $MSM.
XBMICAT XBMICAT.
ENRID $ENRID.
WEB WEB.
XOCONUS XOCONUS.
ACV $ACV2_.

XSERVAFF XSERVAFF.

PNTYPCD $PNTYPCD.

MPRID $8. /*Remove extra format space ($43) provided by NRC*/
;

```

```

LABEL
ENBGSMPL = "Enrollment by beneficiary category"
SERVAFF = "Service Affiliation"
MPCSMPL = "MPCSMPL - Military Personnel Category"
FLAG_FIN = "Final Desposition"
CACSMPL = "Catchment Area"
WEB = "Web survey indicator"
D_PAR = "DMIS Parent ID"
D_Health = "Health Service Region"
TNEXREG = "TNEX Region"
MSM = 'Multiple Service Market Areas'
MIQCNTL = 'Synovate ID'
XSERVAFF = "Service Affiliation"
SERVAREA = 'Service Area'
COM_GEO = "Catchment Area"
;

```

```
RUN;
```

```

PROC CONTENTS DATA=MERGEQ;
RUN;

```

```
DATA OUT.MERGEQ;
```

```
LENGTH
```

```

MPRID $ 8 /* ID */
SVCSMPL 8 /* sampling variable */
SEXSMPL 8 /* sampling variable */
STRATUM $ 7 /* sampling variable */
CACSMPL 8 /* sampling variable */
ENBGSMPL $ 2 /* sampling variable */
MPCSMPL 8 /* sampling variable */
NHFF 8 /* sampling variable */
SERVAREA $ 2 /* sampling variable */
QUARTER $ 8 /* sampling variable */
PRN 8 /* sampling variable */
DCATCH $ 4 /* sampling variable */
ENRID $ 4 /* sampling variable */
DMIS_ID $ 9 /* sampling variable */
MSM $ 2 /* sampling variable */
D_FAC $ 9 /* sampling variable */
D_PAR $ 4 /* sampling variable */
D_HEALTH $ 2 /* sampling variable */
TNEXREG $ 1 /* sampling variable */
SERVAFF $ 1 /* sampling variable */
BWT 8 /* sampling variable */

MRTLSTAT $ 1 /* DEERS variable */
RACEETHN $ 1 /* DEERS variable */
PNSEXCD $ 1 /* DEERS variable */
DAGEQY $ 3 /* DEERS variable */
RDAGEQY 3 /* DEERS variable */
FIELDAGE $ 3 /* DEERS variable */
RFLDAGE 3 /* DEERS variable */
PCM $ 3 /* DEERS variable */

```


ACV	\$ 1	/* DEERS variable	*/
DBENCAT	\$ 3	/* DEERS variable	*/
DMEDELG	\$ 1	/* DEERS variable	*/
DSPONSV	\$ 1	/* DEERS variable	*/
MBRRELCD	\$ 1	/* DEERS variable	*/
MEDTYPE	\$ 1	/* DEERS variable	*/
PATCAT	\$ 7	/* DEERS variable	*/
PNTYPCD	\$ 1	/* DEERS variable	*/
PNLCATCD	\$ 1	/* DEERS variable	*/

H10001	4	/* questionnaire	*/
H10002A	4	/* questionnaire	*/
H10002C	4	/* questionnaire	*/
H10002N	4	/* questionnaire	*/
H10002O	4	/* questionnaire	*/
H10002P	4	/* questionnaire	*/
H10002Q	4	/* questionnaire	*/
H10002F	4	/* questionnaire	*/
H10002G	4	/* questionnaire	*/
H10002H	4	/* questionnaire	*/
H10002I	4	/* questionnaire	*/
H10002J	4	/* questionnaire	*/
H10002K	4	/* questionnaire	*/
H10002M	4	/* questionnaire	*/
H10002R	4	/* questionnaire	*/
H10002L	4	/* questionnaire	*/
H10003	4	/* questionnaire	*/
H10004	4	/* questionnaire	*/
H10005	4	/* questionnaire	*/
H10006	4	/* questionnaire	*/
H10007	4	/* questionnaire	*/
H10008	4	/* questionnaire	*/
H10009	4	/* questionnaire	*/
H10010	4	/* questionnaire	*/
H10011	4	/* questionnaire	*/
H10012	4	/* questionnaire	*/
H10013	4	/* questionnaire	*/
H10014	4	/* questionnaire	*/
H10015	4	/* questionnaire	*/
H10016	4	/* questionnaire	*/
H10017	4	/* questionnaire	*/
H10018	4	/* questionnaire	*/
H10019	4	/* questionnaire	*/
H10020	4	/* questionnaire	*/
H10021	4	/* questionnaire	*/
H10022	4	/* questionnaire	*/
H10023	4	/* questionnaire	*/
H10024	4	/* questionnaire	*/
H10025	4	/* questionnaire	*/
H10026	4	/* questionnaire	*/
H10027	4	/* questionnaire	*/
H10028	4	/* questionnaire	*/
H10029	4	/* questionnaire	*/
H10030	4	/* questionnaire	*/
H10031	4	/* questionnaire	*/
H10032	4	/* questionnaire	*/
H10033	4	/* questionnaire	*/
H10034B	4	/* questionnaire	*/
H10034	4	/* questionnaire	*/
H10035	4	/* questionnaire	*/
H10036	4	/* questionnaire	*/
H10037	4	/* questionnaire	*/
H10038	4	/* questionnaire	*/
H10039	4	/* questionnaire	*/
H10040	4	/* questionnaire	*/
H10041	4	/* questionnaire	*/
H10042	4	/* questionnaire	*/
H10043	4	/* questionnaire	*/
H10044	4	/* questionnaire	*/
H10045	4	/* questionnaire	*/
H10046	4	/* questionnaire	*/
H10047	4	/* questionnaire	*/
H10048	4	/* questionnaire	*/

H10049	4	/* questionnaire	*/
H10050	4	/* questionnaire	*/
H10051	4	/* questionnaire	*/
H10052	4	/* questionnaire	*/
H10053	4	/* questionnaire	*/
H10054	4	/* questionnaire	*/
H10055	4	/* questionnaire	*/
H10056	4	/* questionnaire	*/
H10057	4	/* questionnaire	*/
H10058	4	/* questionnaire	*/
H10059	4	/* questionnaire	*/
H10060	4	/* questionnaire	*/
H10061	4	/* questionnaire	*/
H10062	4	/* questionnaire	*/
H10063	4	/* questionnaire	*/
H10064	4	/* questionnaire	*/
H10065	4	/* questionnaire	*/
H10066	4	/* questionnaire	*/
H10067	4	/* questionnaire	*/
H10068	4	/* questionnaire	*/
H10069F	4	/* questionnaire	*/
H10069I	4	/* questionnaire	*/
H10070	4	/* questionnaire	*/
SREDA	4	/* questionnaire	*/
H10071	4	/* questionnaire	*/
H10071A	4	/* questionnaire	*/
H10071B	4	/* questionnaire	*/
H10071C	4	/* questionnaire	*/
H10071D	4	/* questionnaire	*/
H10071E	4	/* questionnaire	*/
SRRACEA	4	/* questionnaire	*/
SRRACEB	4	/* questionnaire	*/
SRRACEC	4	/* questionnaire	*/
SRRACED	4	/* questionnaire	*/
SRRACEE	4	/* questionnaire	*/
SRAGE	4	/* questionnaire	*/
H10072	4	/* questionnaire	*/
H10073	4	/* questionnaire	*/
H10074	4	/* questionnaire	*/

S10009	4	/* supplemental	*/
S10010	4	/* supplemental	*/
S10B01	4	/* supplemental	*/
S10B02	4	/* supplemental	*/
S10B03	4	/* supplemental	*/
S10B04	4	/* supplemental	*/
S10G18	4	/* supplemental	*/
S10G19	4	/* supplemental	*/
S10G23	4	/* supplemental	*/
S10G27	4	/* supplemental	*/
S10G28	4	/* supplemental	*/
S10G29A	4	/* supplemental	*/
S10G29B	4	/* supplemental	*/
S10G29C	4	/* supplemental	*/
S10G29D	4	/* supplemental	*/
S10G29E	4	/* supplemental	*/
S10G29F	4	/* supplemental	*/
S10G29G	4	/* supplemental	*/
S10G29H	4	/* supplemental	*/
S10G29I	4	/* supplemental	*/
S10G29J	4	/* supplemental	*/
S10G29K	4	/* supplemental	*/
S10G30	4	/* supplemental	*/
S10G31	4	/* supplemental	*/
S10G32	4	/* supplemental	*/
S10G33	4	/* supplemental	*/
S10G34	4	/* supplemental	*/
S10G35	4	/* supplemental	*/
S10G40	4	/* supplemental	*/
S10G41	4	/* supplemental	*/
S10G42	4	/* supplemental	*/
S10G43	4	/* supplemental	*/
S10D03	4	/* supplemental	*/

S10D02	4	/* supplemental	*/
S10B23	4	/* supplemental	*/
S10B24	4	/* supplemental	*/
S10B25	4	/* supplemental	*/
S10B26	4	/* supplemental	*/
S10B22	4	/* supplemental	*/
S10011	4	/* supplemental	*/
S10014	4	/* supplemental	*/
ONTIME	\$ 3	/* Survey fielding variable	*/
FLAG_FIN	\$ 5	/* Survey fielding variable	*/
DUPFLAG	\$ 3	/* Survey fielding variable	*/
FNSTATUS	8	/* Survey fielding variable	*/
KEYCOUNT	8	/* Survey fielding variable	*/
WEB	8	/* Survey fielding variable	*/
MIQCNTL	\$ 12	/* Survey fielding variable	*/
N1	8	/* CS flag variable	*/
N2	8	/* CS flag variable	*/
N3	8	/* CS flag variable	*/
N4	8	/* CS flag variable	*/
N5	8	/* CS flag variable	*/
N6	8	/* CS flag variable	*/
N7	8	/* CS flag variable	*/
N8	8	/* CS flag variable	*/
N8A1	8	/* CS flag variable	*/
N9	8	/* CS flag variable	*/
N10	8	/* CS flag variable	*/
N10A1	8	/* CS flag variable	*/
N11	8	/* CS flag variable	*/
N11B	8	/* CS flag variable	*/
N12	8	/* CS flag variable	*/
N13	8	/* CS flag variable	*/
N14	8	/* CS flag variable	*/
N15	8	/* CS flag variable	*/
N16	8	/* CS flag variable	*/
N16B1	8	/* CS flag variable	*/
N16B2	8	/* CS flag variable	*/
N16B3	8	/* CS flag variable	*/
N16B4	8	/* CS flag variable	*/
N17	8	/* CS flag variable	*/
N18	8	/* CS flag variable	*/
N19A	8	/* CS flag variable	*/
N19B	8	/* CS flag variable	*/
N20	8	/* CS flag variable	*/
N21	8	/* CS flag variable	*/
N22	8	/* CS flag variable	*/
N23	8	/* CS flag variable	*/
N24	8	/* CS flag variable	*/
MISS_1	8	/* CS Count	*/
MISS_4	8	/* CS Count	*/
MISS_5	8	/* CS Count	*/
MISS_6	8	/* CS Count	*/
MISS_7	8	/* CS Count	*/
MISS_8	8	/* CS Count	*/
MISS_9	8	/* CS Count	*/
MISS_TOT	8	/* CS Count	*/
XENRLMT	8	/* constructed	*/
XENR_PCM	8	/* constructed	*/
XINS_COV	8	/* constructed	*/
XBENCAT	8	/* constructed	*/
XENR_RSV	8	/* constructed	*/
XINS_RSV	8	/* constructed	*/
XREGION	3	/* constructed	*/
XTNEXREG	3	/* constructed	*/
USA	3	/* constructed	*/
XOCONUS	3	/* constructed	*/
OUTCATCH	8	/* constructed	*/
XSEXA	8	/* constructed	*/
XBMI	8	/* constructed	*/
XBMICAT	3	/* constructed	*/
XBNFGRP	8	/* constructed	*/

```

XSERVAFF      3      /* constructed */
KMILOPQY     8      /* constructed */
KCIVOPQY     8      /* constructed */
KCIVINS      8      /* constructed */
HP_PRNTL     8      /* constructed */
HP_MAMOG     8      /* constructed */
HP_MAM50     8      /* constructed */
HP_PAP       8      /* constructed */
HP_BP        8      /* constructed */
HP_FLU       8      /* constructed */
HP_OBESE    8      /* constructed */
HP_SMOKE    8      /* constructed */
HP_SMKH2    8      /* constructed */
HP_CESH2    8      /* constructed */
;

SET MERGEQ;

RUN;

PROC CONTENTS DATA=OUT.MERGEQ POSITION;
  title "HCSDB for Q1 FY 2010, ordered by variable type";
RUN;

PROC FREQ DATA=OUT.MERGEQ;
TABLE PCM ACV CACSMPL /MISSPRINT;
RUN;

```

F.6 Q4FY2010\PROGRAMS\WEIGHTING\NEWWEIGHTS\SMPLA1A2.SAS - CONSTRUCT THE CATEGORICAL VARIABLES TO BE USED IN THE ANSWERTREE AND THE MODELING - RUN QUARTERLY.

```

*****
*** Program: L:\Q4FY2010\Programs\Weighting\NewWeights\smp1A1A2.sas
*** Task : (06663-300)
*** Purpose: Construct the variables to be used in the model
***
*** Inputs: extract.sas7bdat : 2010 Q4 Extract file
***          selectq.sas7bdat : Q4FY2010 Survey file with CAHPS4.0 questionnaires
***          sampla03,
***
*** Outputs: smp1A1A2.sas7bdat
***           smp1A1.sas7bdat: Dataset to be used to calculate the unknown eligibility factor A1
***           smp1A2.sas7bdat: Dataset to be used to calculate the nonresponse adjustment A2
***           conusA1.sas7bdat, oconusA1.sas7bdat, conusA2.sas7bdat, oconusA2.sas7bdat
***
*** Note: 1)Modified for qlfy2007 weighting on 12/18/2006:
***         a) Two more variables are added in CHAID tree analysis to capture the new sample
design in qlfy2007
***         b) Uncollapse PCM to differentiate CIV and MTF.
***         2)Haixia Xu 03/28/2007 for q3fy2007 weighting
***         3)From Q1fy2009, email notification was sent to all Active duty whose email address
is available
***           Looks like the variable name in Answer Tree has to be no longer than 8.
***         4)Also from qlfy2009, define patc_grp based on patcat and Has_email, and it has 4
categories instead of 3.
***
***         5)Sabrina Rahman Q3FY2010 Adult Weighting (6663-300):
***           In Q3FY2010, we delivered 50987 cases (after dropping 13 overlaps with Q4fy2009).
***           we do not have FNSTATUS and other necessary variables for those 13 cases in
selectq.
***           we are creating necessary variables for 13 cases (similar to Q2FY2010) for
selectq.
***           =>Delete or Update 'this section' and libname 'Q409' in Q4FY2010 Weighting
Process
***           =>Reveiw the FNSTATUS creating sectino carefully and update/delete when necessary
***
*** Written: Haixia Xu 12/18/2006 for qlfy2007 weighting
*****;

options ls=132 ps=79 nocenter formdlm='~' obs=max WORKTERM mprint;

%let quarter=Q4FY2010;
libname inr "K:\&quarter."; * extract.sa7bdat, deers001-004.sas7bdat;
libname in "L:\&quarter.\Data\afinal"; * selectq.sas7bdat, BWT.sas7bdat;
libname out "L:\&quarter.\Data\afinal"; * smp1A1A1, smp1A1, smp1A2, conusa1, conusa2, oconusa1,
oconusa2;
LIBNAME library v9 "L:\&quarter.\DATA\AFINAL\FMTLIB";
libname tss "L:\TSS\Beneficiary\2010\Data"; *Q4FY2010: 2010 TSS Benef. Study;

title1 "Program: smp1A1A2.SAS (&quarter.);";
title2 "Purpose: Construct the variables";

*****
Put the data together;
*****;
data selectq;
    set in.selectq(keep=BWT COM_GEO D_HEALTH D_FAC dageqy ENBGSMPL FNSTATUS MPCSMPL MPRID
        PATCAT PCM PNLCDTCD PNSEXCD SERVAFV SEXSMPL STRATUM SVCSMPL WEB TNEXREG group
    );
run;

*****
Get the has-email variable from sampla07_2 data
Get the variables PGCD, PTNT_ID from extract data
*****;
proc sort data=selectq; by mprid; run;
proc sort data=inr.sampla03_2(keep=mprid has_email) out=sampla07_2; by mprid; run;
proc sort data=inr.extract(keep=mprid pgcd ptnt_id) out=extract; by mprid; run;

data selectq;
    merge selectq(in=a) sampla07_2(in=b) extract(in=c);

```

```

    by mprid;
    if a and b and c;
run;

*----- For Q4FY2010-----
Creating variables :
FNSTATUS, WEB, MPCSMPL, has_email as below:
WEB=. (missing)
Has_Email=No

FNSTATUS:
if status in TSS2010    fnstatus in Q4FY2010
    11                    20
    41                    41
    42                    42

Create MPCSMPL as (read PAYPLNCD, PGCD from Extract):
    IF PAYPLNCD = 'MO' THEN    MPCSMPL = 2
    ELSE IF PAYPLNCD = 'MW' THEN MPCSMPL = 3
    ELSE MPCSMPL = 1
-----;
data BWT (KEEP=MPRID BWT COM_GEO D_HEALTH D_FAC dageqy ENBGSMPL /*FNSTATUS*/ /*MPCSMPL*/
          PATCAT PCM PNLCATCD PNSEXCD SERVAFF SEXSMPL STRATUM SVCSMPL /*WEB*/ TNEXREG
group);
set in.bwt;    *51,000 cases;
run;

data sampla02 (KEEP=MPRID); *50,962 cases;
set inr.sampla02;
run;

proc sort data=bwt; by mprid; run;
proc sort data=sampla02; by mprid; run;

*Get 17 variables from bwt for 38 cases;
data c38cases;
merge bwt (in=A) sampla02 (in=B);
by MPRID;
if A and NOT B then output c38Cases;
run;

*Get PGCD PTNT_ID from Extract;
*Get PAYPLNCD from Extract to create MPCSMPL, later will drop PAYPLNCD;
proc sort data=inr.extract(keep=mprid PTNT_ID pgcd PAYPLNCD) out=extract;
by mprid;
run;

data c38cases ;
merge c38cases (in=A) extract(in=B);
by MPRID;
if a and b;
run;

* Checking the FNSTATUS for 38 cases in TSS2010 ;
data selectq_Tss (Keep=MPRID FNSTATUS Rename=(FNSTATUS=FNSTATUS_Tss10));
set tss.selectq;
format _ALL_;
run;

*Final Status of 38 Overlap Cases;
proc sort data = selectq_Tss;
by mprid;
run;

proc sort data = c38cases;
by mprid;
run;

data c38cases inC38 inTss Problem;
merge c38cases(in=A) selectq_Tss (in=B) ;
by mprid;
if A and B then output c38cases;
else if A and not B then output inC38;
else if B and not A then output inTSS;

```

```

else output Problem;
run ;

*Creating Necessary variables;
Data c38cases ;
set c38cases;
WEB=.;
*Creating Has_Email for 13 cases (discussed with Keith);
Has_Email='NO';
*Creating MPCSMPL for 13 cases (discussed with Nancy);
IF PAYPLNCD = 'MO' THEN MPCSMPL = 2;
ELSE IF PAYPLNCD = 'MW' THEN MPCSMPL = 3;
ELSE MPCSMPL = 1;
*Creating FNSTATUS for 13 overlap cases ;
IF FNSTATUS_Tss10=11 then FNSTATUS=20;
IF FNSTATUS_Tss10=41 then FNSTATUS=41;
IF FNSTATUS_Tss10=42 then FNSTATUS=42;
Run;

title3 "Checking the Construction of FNSTATUS for 38 Overlap Cases:";
title4 "***Note: From Q4 Sample, we dropped 38 overlap (between Q4fy2010 and TSS2010) cases***";
title4 "          We want to Add those 38 cases with all necessary variables in Selectq file  ";
proc freq data=c38cases;
tables ptnt_id*mprid*FNSTATUS_Tss10*FNSTATUS/list missing;
tables FNSTATUS web PAYPLNCD*MPCSMPL/list missing;
run;

data c38cases (DROP=PAYPLNCD FNSTATUS_Tss10);
set c38cases;
run;

data selectq;
set selectq c38cases;
run;
*-----*

*****
Merge the selectq with DEERS to get the address variable c_addr1
*****;
%macro dodeers(part=);
data deers00&part.;
set inr.deers00&part.(keep=ptnt_id c_addr1);
if c_addr1=' ' then CHCSAddr=0;
if c_addr1~=' ' then CHCSAddr=1;
run;

proc sort data=selectq; by ptnt_id; run;
proc sort data=deers00&part.; by ptnt_id; run;

data selectq;
merge selectq (in=A) deers00&part.;
by ptnt_id;
if A=1;
run;
%mend dodeers;

%dodeers(part=1);
%dodeers(part=2);
%dodeers(part=3);
%dodeers(part=4);

*****
Construct the new variables
*****;
data smpl;
set selectq;

***age***;
age=input(dageqy, 3.);

*Define the age group with 5 categories, which will be used in CHAID;
length AGE_grp5 $1;
if age <= 24 then AGE_grp5 = '1';

```

```

else if 24 < age <= 34 then AGE_grp5 = '2';
else if 34 < age <= 44 then AGE_grp5 = '3';
else if 44 < age <= 64 then AGE_grp5 = '4';
else if age > 64 then AGE_grp5 = '5';
if age=. then AGE_grp5='5';

***PATCAT***;
***Define PATCAT this way so it won't be associated with the age ***;
length PATC_grp $15;
if PATCAT = 'UNKNOWN' then do;
  if ENBGSMPL in ('01') then PATC_grp='ACTDTY';
  else if ENBGSMPL in ('02', '03', '04') then PATC_grp='DEPACT';
  else if ENBGSMPL in ('05', '06', '07', '10') then PATC_grp='NADD';
end;
else if PATCAT in ('NADD<65','NADD65+') then PATC_grp = 'NADD';
else PATC_grp = PATCAT;

if PATC_grp = 'ACTDTY' and Has_Email='YES' then PATC_grp='ACTDTY_EMAIL';
else if PATC_grp = 'ACTDTY' and Has_Email='NO' then PATC_grp='ACTDTY_NOEMAIL';

***PCM***;
length PCM_grp $3;
if PCM = ' ' then PCM_grp='NON';
else if PCM in ('CIV', 'MTF') then PCM_grp = PCM;

***PNLCATCD***;
length PNLC_grp $8;
if PNLCATCD in ('N','V') then PNLC_grp='Grd/Resv';
else PNLC_grp= 'Other';

***RANKPAY***;
length RankPay $3;
if MPCSMPL=1 then do;
  if PGCD in ( ' ', '00', '99','WW','NS') then RankPay = 'E01';
  else RankPay = 'E' || PGCD;
end;
else if MPCSMPL=2 then do;
  if PGCD in ( ' ', '00', '99' ) then RankPay = 'O01';
  else RankPay = 'O' || PGCD;
end;
else if MPCSMPL=3 then do;
  if PGCD in ( ' ', '00', '99') then RankPay = 'W01';
  else RankPay = 'W' || PGCD;
end;

length RANK_grp $15;
if RankPay in ('E01', 'E02', 'E03', 'E04') then RANK_grp = 'E1234';
else if RankPay in ('E05', 'E06', 'E07', 'E08', 'E09', 'E10', 'E11','E12','E13','E14','E15')
then RANK_grp = 'E56789101112';
else if Rankpay in ('W01', 'W02', 'W03', 'O01', 'O02', 'O03') then RANK_grp = 'W1230123';
else if RankPay in ('W04', 'W05', 'O04', 'O05', 'O06', 'O07', 'O08', 'O09', 'O10') then RANK_grp
= 'W45045678910';

***sex***;
*Put the missing sex with male;
length SEX_grp $1;
if SEXSMPL in (1, 3) then SEX_grp = '1';
else if SEXSMPL=2 then SEX_grp='2';

***service***;
length SVC_grp $16;
if SVCSMPL = 1 then SVC_grp='Army';
else if SVCSMPL in (2,3,5,6) then SVC_grp='N/M/C/O/U';
else if SVCSMPL = 4 then SVC_grp='Air Force';

***facility TNEX region***;
length TNEX_grp $1;
if d_health in ('00', '13', '14', '15') then TNEX_grp='O';
else if d_health in ('17', '01', '05') then TNEX_grp='N';
else if d_health in ('18', '04') then TNEX_grp='S';
else if d_health in ('19', '08', '11') then TNEX_grp='W';
*Correct the TNEX regions for com_geo 0047, 9001, 9002, 9003, 9004:

```



```

All the cases in the same com_geo should be in the same TNEX region, which is the region of the
com_geo;
if COM_GEO = '0047' then TNEX_grp='S';
else if COM_GEO = '9001' then TNEX_grp='N';
else if COM_GEO = '9002' then TNEX_grp='S';
else if COM_GEO = '9003' then TNEX_grp='W';
else if COM_GEO = '9004' then TNEX_grp='O';

***CONUS region***;
length conus $1;
if TNEX_grp = 'O' then conus='0';
else if TNEX_grp in ('N', 'S', 'W') then conus='1';

***Catchment areaindicator***;
length in_catch $1;
if d_fac='NONCAT' or d_fac='TGRO' or d_fac="TPR" then in_catch='0';
else in_catch = '1';

/*Define two variables to identify the TRICARE Reserve Select and TRICARE Plus*/
if group='4' then TRICPLUS=1;
else TRICPLUS=2;

if group='0' then TRS=1;
else TRS=2;

label in_catch='In-catchment area indicator'
      TRICPLUS='TRICARE PLUS indicator'
      TRS='TRICARE Reserve Select indicator';
run;

title3 'Checking the Coding after Constructing New Variables';
proc freq data=smpl;
tables CHCSAddr has_email AGE_grp5 AGE_grp5*AGE*dageqy
      PATC_grp PATC_grp*PATCAT*ENBGSMPL*Has_Email
      PCM_grp PCM_grp*PCM
      PNLC_grp PNLC_grp*PNLCATCD
      RANKPAY*MPCSMPL*PGCD
      RANK_grp RANK_grp*RANKPAY
      SEX_grp SEX_grp*SEXSMPL*PNSEXCD
      SVC_grp SVC_grp*SVCSMPL
      TNEX_grp TNEX_grp*d_health
      CONUS CONUS*TNEX_grp
      in_catch in_catch*d_fac
      TRICPLUS*group
      TRS*group
      com_geo*TNEX_grp
/missing list;
run;

*****
Output the data sets
*****;
data OUT.smplA1A2 OUT.smplA1 OUT.smplA2 OUT.conusA1 OUT.oconusA1 OUT.conusA2 OUT.oconusA2;
set smpl(drop=DAGEQY PNSEXCD MPCSMPL PGCD );
Rename has_email=HasEmail;
if fnstatus in (11, 12, 20, 31, 32, 41, 42) then output OUT.smplA1A2;

if fnstatus in (11, 12, 20, 31, 41, 42) then do;
  if fnstatus in (11, 12, 20, 31) then eligkwn=1; else eligkwn=0;
  label eligkwn = 'Eligibility known indicator';
  output OUT.smplA1;

  if conus='1' then output OUT.conusA1;
  else if conus='0' then output OUT.oconusA1;
end;

if fnstatus in (11, 12, 20) then do;
  if fnstatus = 11 then complete = 1; else complete =0;
  label complete = 'Eligible respondent/complete indicator';
  output OUT.smplA2;

  if conus='1' then output OUT.conusA2;
  else if conus='0' then output OUT.oconusA2;

```

```
end;

run;

options compress=no;
title3 'Freq of conus*fnstatus for 51,000 beneficiaries';
proc freq data=OUT.smplA1A2;
tables conus*fnstatus / missing list;
run;

title3 'Freq of fnstatus*eligkwn for 51,000 benes except fnstatus=32';
proc freq data=OUT.smplA1;
tables conus*fnstatus*eligkwn / missing list;
run;

title3 'Freq of fnstatus*complete for fnstatus=11,12,20';
proc freq data=OUT.smplA2;
tables conus*fnstatus*complete / missing list;
run;

***** The End *****;
```

F.7 Q4FY2010\PROGRAMS\WEIGHTING\NEWWEIGHTS\LOGMDA1.SAS - DO THE 1ST STAGE UNKNOWN ELIGIBILITY ADJUSTMENT MODELING - INTERACTIONS IN THE MODEL ARE DETERMINED BASED ON THE TREES0 - RUN QUARTERLY.

```

dm 'clear output;clear log';
*****
***
*** Program: L:\Q4FY2010\Programs\Weighting\NewWeights\logmdA1.sas (06663.300)
*** Purpose: Use the SUDAAN model to predict the response propensity
***           score for the unknown eligibility adjustment step
*** Inputs:  conusA1.sas7bdat, oconusA1.sas7bdat, smplA1A2.sas7bdat
*** Outputs: logmdA1.sas7bdat
***
*** Written: 1)Haixia Xu 12/27/2006 Q4fy2007 weighting
*** Note   : 2)We have 2 Warnings in Log. ZERO CELL Warning is a Sudaan Bug. There is NO true
ZERO CELL.
***           We have only ONE catagory for (AgeGp=5 and Patc),which gives us Singularity
Warning.
***           That one strara is: (Age_Grp5='5' and patc_grp=NADD)
***           (L:\Q4FY2010\Programs\Weighting\NewWeights\SUDAAN Warning_Proc RLOGIST.msg)
*****
***;

options ls=132 ps=79 compress=yes nocenter formdlm='~';

%let quarter=Q4FY2010;

%include "L:\Q4FY2010\Programs\Weighting\NewWeights\Zero_One_Cells.sas";

libname in   "L:\&quarter.\Data\afinal"; /* conusA1.sas7bdat, oconusA1.sas7bdat */
libname out  "L:\&quarter.\Data\afinal"; /* logmdA1.sas7bdat */

proc format;
value FMT_TNEX 1 = '1-North'
              2 = '2-South'
              3 = '3-West'
              4 = '4-Other';
value FMT_AGE  1 = '<=24'
              2 = '(24,34]'
              3 = '(34,44]'
              4 = '(44,64]'
              5 = '>=65';
value FMT_PATC 1 = '1-ACTDTY_EMAIL'
              2 = '2-ACTDTY_NOEMAIL'
              3 = '3-DEPACT'
              4 = '4-NADD';
value FMT_PAT  1 = '1-ACTDTY'
              2 = '2-DEPACT'
              3 = '3-NADD';
value FMT_PCM  1 = '1-Nonenrollee'
              2 = '2-CIV Enrollee'
              3 = '3-MTF Enrollee';
value FMT_PNL  1 = '1-Other'
              2 = '2-Grd/Resv';
value FMT_RANK 1 = '1-E1234'
              2 = '2-E56789101112'
              3 = '3-W1230123'
              4 = '4-W45045678910';
value FMT_RK   1 = '1-E1_12'
              2 = '2-W1_501_10';
value FMT_SEX  1 = '1-Male'
              2 = '2-Female';
value FMT_SVC  1 = '1-Army'
              2 = '2-Air Force'
              3 = '3-N/M/C/O/U';
value FMT_INCT 1 = '1-Not in Catch'
              2 = '2-In catch';
value FMT_PLUS 1 = '1- TRICARE PLUS'
              2 = '2- Not TRICARE PLUS';
value FMT_TRS  1 = '1- TRICARE Reserve Select'
              2 = '2- Not TRICARE Reserve Select';
value FMT_addr 0 = '0- CHCS mailling address unavailable'
              1 = '1- CHCS mailling address available';
value FMT_emai 1 = 'AD with Email Address available'

```

```

                2 = 'AD with Email Address unavailable'
                3 = 'Non Active Duty(AD)';
run;

title1 "Program: logmdA1.sas (&quarter.)";
title2 "Purpose: Predict the Response Probability for the unknown Eligibility Adjustment";

*=====
===
Create the dummy variables to be used in the SUDAAN model
=====
==;
/*
title3 'Check to see what kind of values mprid and stratum have';
proc freq data=in.smplA1(obs=20);
tables MPRID stratum/missing list;
run;
*/

data logmdA1;
set in.conusA1 in.oconusA1;

*Convert MPRID and stratum into numerical values since SUDAAN takes only numerical values;
length MPRID_c9 $9 stratum1 $8 ;
MPRID_c9='1' || MPRID;
MPRID_nm = input (MPRID_c9, 9.);

stratum1='1' || stratum;
STRAT_nm = input (stratum1, 8.);

*****
Convert all the categorical variables into numeric variables
*****;
if TNEX_grp='N' then TNEX_num=1;
else if TNEX_grp='S' then TNEX_num=2;
else if TNEX_grp='W' then TNEX_num=3;
else if TNEX_grp='O' then TNEX_num=4;

AGE_num5=input(AGE_grp5, 1.);

if PATC_grp= 'ACTDTY_EMAIL' then PATC_num=1;
else if PATC_grp= 'ACTDTY_NOEMAIL' then PATC_num=2;
else if PATC_grp= 'DEPACT' then PATC_num=3;
else if PATC_grp = 'NADD' then PATC_num=4;

if PCM_grp='NON' then PCM_num=1;
else if PCM_grp='CIV' then PCM_num=2;
else if PCM_grp='MTF' then PCM_num=3;

if PNLC_grp = 'Other' then PNLC_num=1;
else if PNLC_grp= 'Grd/Resv' then PNLC_num=2;

if RANK_grp='E1234' then RANK_num=1;
else if RANK_grp= 'E56789101112' then RANK_num=2 ;
else if RANK_grp = 'W1230123' then RANK_num= 3;
else if RANK_grp = 'W45045678910' then RANK_num=4;

if SEX_grp='1' then SEX_num=1;
else if SEX_grp= '2' then SEX_num = 2;

if SVC_grp='Army' then SVC_num=1;
else if SVC_grp='Air Force' then SVC_num=2;
else if SVC_grp='N/M/C/O/U' then SVC_num=3;

if IN_CATCH='0' then INCAT_num=1;
else if IN_CATCH='1' then INCAT_num=2;

if hasemail='YES' then Email_num=1;
else if hasemail='NO' then Email_num=2;
else if hasemail='N/A' then Email_num=3;
run;
/*
title3 'Freq of MPRID_nm*mprid strat_nm*stratum';
proc freq data=logmdA1(obs=50);

```

```

tables MPRID_nm*mprid strat_nm*stratum/ missing list;
run;
*/
title3 'Check the construction of the numeric variables';
proc freq data=logmdA1;
tables TNEX_num*TNEX_grp
      AGE_num5*AGE_grp5
      PATC_num*PATC_grp
      PCM_num*PCM_grp
      PNLC_num*PNLC_grp
      RANK_num*RANK_grp
      SEX_num*SEX_grp
      SVC_num*SVC_grp
      INCAT_num*IN_CATCH
      Email_num*HasEmail*patcat
/missing list;
run;

data conus oconus;
set logmdA1;
if conus='1' then output conus;
else if conus='0' then output oconus;
run;

*****
Check the zero cell before the modeling for CONUS
*****

%let Vars_in_interactions_conus = age_grp5 tnex_grp patc_grp pnlc_grp pcm_grp rank_grp chcsaddr
in_catch pnlc_grp svc_grp sex_grp;

/*Interactions from chaid */
%let Interactions_from_chaid_conus =

/*Q4FY2010: From ConusA1 tree*/
age_grp5*tnex_grp*sex_grp
age_grp5*patc_grp*rank_grp
age_grp5*patc_grp*svc_grp
age_grp5*svc_grp*rank_grp

/*Q4FY2010: Two way interaction from the three ways above*/
age_grp5*tnex_grp
age_grp5*sex_grp
tnex_grp*sex_grp

age_grp5*patc_grp
age_grp5*rank_grp
patc_grp*rank_grp

age_grp5*svc_grp
patc_grp*svc_grp

svc_grp*rank_grp
;

title3 "Check the zero cells for conus";
%ZERO_ONE_CELLS(conus, &Vars_in_interactions_conus., eligkwn, &Interactions_from_chaid_conus.);

title3 "Q4FY2010: Check to see how to collapse";
proc freq data=conus;
tables
age_grp5*patc_grp*eligkwn
age_grp5*patc_grp*rank_grp*eligkwn
age_grp5*patc_grp*svc_grp*eligkwn
age_grp5*rank_Grp*svc_grp*eligkwn
/missing list SPARSE;
run;

/*Q4FY2010*/
data conus;
set conus;
age_grp5_old=age_grp5;
rank_grp_old=rank_grp;
svc_grp_old=svc_grp;

```

```

if age_grp5='1' and patc_grp='ACTDTY_NOEMAIL' and rank_grp='E56789101112' then do;
  rank_grp='E1234';
  rank_num=1;
  flag1=1;
end;

else if age_grp5='2' and patc_grp='ACTDTY_NOEMAIL' and rank_grp='W45045678910' then do;
  rank_grp='W1230123';
  rank_num=3;
  flag2=1;
end;

else if age_grp5='3' and patc_grp='ACTDTY_NOEMAIL' and rank_grp='E56789101112' then do;
  rank_grp='E1234';
  rank_num=1;
  flag3=1;
end;

else if age_grp5='4' and patc_grp='ACTDTY_NOEMAIL' and rank_grp='E1234' then do;
  rank_grp='E56789101112';
  rank_num=2;
  flag4=1;
end;

else if age_grp5='4' and patc_grp='ACTDTY_NOEMAIL' and rank_grp='W1230123' then do;
  rank_grp='W45045678910';
  rank_num=4;
  flag5=1;
end;

else if age_grp5='5' and patc_grp='ACTDTY_EMAIL' and rank_grp='W45045678910' then do;
  age_grp5='4';
  age_num5=4;
  flag6=1;
end;

else if age_grp5='5' and patc_grp='DEPACT' and rank_grp='W1230123' then do;
  age_grp5='4';
  age_num5=4;
  flag7=1;
end;

else if age_grp5 IN ('1','4') and patc_grp='ACTDTY_NOEMAIL' and SVC_grp='Air Force' then do;
  svc_grp='Army';
  svc_num=1;
  flag8=1;
end;

else if age_grp5='5' and patc_grp='ACTDTY_EMAIL' and SVC_grp='Air Force' then do;
  age_grp5='4';
  age_num5=4;
  flag9=1;
end;

else if age_grp5='5' and patc_grp='DEPACT' and SVC_grp='Army' then do;
  age_grp5='4';
  age_num5=4;
  flag10=1;
end;

else if age_grp5='5' and rank_grp='E1234' and SVC_grp='Air Force' then do;
  svc_grp='Army';
  svc_num=1;
  flag11=1;
end;

else if age_grp5='5' and rank_grp='E1234' and SVC_grp='N/M/C/O/U' then do;
  age_grp5='4';
  age_num5=4;
  flag12=1;
end;
run;

```

```

title3 "Again...Checks the zero cells for Conus ";
%ZERO_ONE_CELLS(conus, &Vars_in_interactions_conus., eligkwn, &Interactions_from_chaid_conus.);

title3 "Q4FY2010: Check the zero cell collapsements";
proc freq data=conus;
tables
age_grp5*patc_grp*rank_grp*rank_grp_old*flag1*flag2*flag3*flag4*flag5
age_grp5*patc_grp*rank_grp*age_grp5_old*flag6*flag7
age_grp5*patc_grp*svc_grp*svc_grp_old*flag8
age_grp5*patc_grp*svc_grp*age_grp5_old*flag9*flag10
age_grp5*rank_grp*svc_grp*svc_grp_old*flag11
age_grp5*rank_grp*svc_grp*age_grp5_old*flag12
/missing list;
run;

data conus;
set conus;
if age_grp5='4' and patc_grp='ACTDTY_NOEMAIL' and SVC_grp='Air Force' then do;
  svc_grp='Army';
  svc_num=1;
  flag13=1;
end;
run;

title3 "Again...Checks the zero cells for Conus ";
%ZERO_ONE_CELLS(conus, &Vars_in_interactions_conus., eligkwn, &Interactions_from_chaid_conus.);

title3 "Q4FY2010: Check the zero cell collapsements";
proc freq data=conus;
tables age_grp5*patc_grp*svc_grp*svc_grp_old*flag13/missing list;
run;

*Q4FY2010:Deletes unnecessary variables;;
data conus;
  set conus(drop=age_grp5_old rank_grp_old svc_grp_old flag1-flag13);
run;

*/
*****
Run the SAs stepwise model
*****;

%macro modelselect_conus(method= );
title3 "SAS Logistic for CONUS - &method.";
proc logistic data=conus descending;
CLASS
TNEX_grp (ref='N')
AGE_grp5 (ref='1')
PATC_grp (ref='NADD')
PCM_grp (ref='NON')
PNLC_grp (ref='Other')
RANK_grp (ref='E1234')
SEX_grp (ref='1')
SVC_grp (ref='Army')
IN_CATCH (ref='0')
TRS (ref='2')
CHCSAddr (ref='0')/param=ref descending;
MODEL eligkwn =
TNEX_grp
AGE_grp5
PATC_grp
PCM_grp
PNLC_grp
RANK_grp
SEX_grp
SVC_grp
IN_CATCH
TRS
CHCSAddr

/*Q4FY2010: From ConusA1 tree*/
age_grp5*tnex_grp*sex_grp
age_grp5*patc_grp*rank_grp

```

```

age_grp5*patc_grp*svc_grp
age_grp5*svc_grp*rank_grp

/*Q4FY2010: Two way interaction from the three ways above*/
age_grp5*tnex_grp
age_grp5*sex_grp
tnex_grp*sex_grp

age_grp5*patc_grp
age_grp5*rank_grp
patc_grp*rank_grp

age_grp5*svc_grp
patc_grp*svc_grp

svc_grp*rank_grp

/Lackfit rsquare details hierarchy=single selection=&method. slentry=0.15 slstay=0.20;
OUTPUT OUT=out_conus PREDICTED=predicted;
run;
%mend modelselect_conus;

%modelselect_conus(method=stepwise);

*****
Check the SUDAAN fit for the the model above
*****
/*

```

Wald		Effect		Summary of Stepwise Selection		Score
Step	Entered	Removed	DF	In	Chi-Square	
Chi-Square	Pr > ChiSq					
<.0001	1	AGE_grp5	4	1	4820.6419	
<.0001	2	RANK_grp	3	2	337.5619	
<.0001	3	PATC_grp	3	3	278.2927	
<.0001	4	SVC_grp	2	4	209.1384	
<.0001	5	PATC_grp*SVC_grp	6	5	118.3312	
<.0001	6	AGE_grp5*PATC_grp	9	6	106.4863	
<.0001	7	RANK_grp*SVC_grp	6	7	58.1810	
<.0001	8	PCM_grp	2	8	41.8016	
<.0001	9	AGE_grp5*RANK_grp	12	9	66.3459	
<.0001	10	in_catch	1	10	25.0014	
<.0001	11	PATC_grp*RANK_grp	9	11	39.6723	
<.0001	12	SEX_grp	1	12	17.5336	
<.0001	13	AGE_grp5*SEX_grp	4	13	60.0655	
0.0007	14	CHCSAddr	1	14	11.6200	
0.0171	15	AGE_gr*PATC_g*RANK_g	20	15	35.6009	
0.0689	16	TNEX_grp	2	16	5.3502	
0.0797	17	AGE_grp5*SVC_grp	8	17	14.0821	

```

*/

proc sort data=conus;
by STRAT_nm;
run;

```



```

Title3 " The Final Model from SAS Stepwise - CONUS ";
Title4 " Run1: Sudaan using Initial model from SAS Logistic";
proc rlogist data=conus design=STRWR filetype=SAS;
NEST STRAT_nm/missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num RANK_num SEX_num SVC_num INCAT_num TRS tnex_num email_num;
LEVELS 5 4 3 4 2 3 2 2 3 3;
REFLEVEL AGE_num5=1 PATC_num=4 PCM_num=1 RANK_num=1 SEX_num=1 SVC_num=1 INCAT_num=1 TRS=2
tnex_num=1 email_num=1;
MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
RANK_num
PATC_num
SVC_num
PATC_num*SVC_num
AGE_num5*PATC_num
RANK_num*SVC_num
PCM_num
AGE_num5*RANK_num
incat_num
PATC_num*RANK_num
SEX_num
AGE_num5*SEX_num
CHCSAddr
AGE_num5*PATC_num*RANK_num
TNEX_num
AGE_num5*SVC_num
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_c filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PATC.;
rformat PCM_num FMT_PCM.;
rformat RANK_num FMT_RANK.;
rformat SEX_num FMT_SEX.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs fmt_trs.;
rformat tnex_num fmt_tnex.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_emai.;
run;

```

```

*Q4FY2010: NOTE: (See NOTE above for LOG Warning)
*Removing: Age*Patc*Rank, P-value =0.3815
HL Sattert-hwaite P-value = 0.3508;

```

```

Title3 " The Final Model from SAS Stepwise - CONUS ";
Title4 " Run2: Remove (Age*Patc*Rank)";
proc rlogist data=conus design=STRWR filetype=SAS;
NEST STRAT_nm/missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num RANK_num SEX_num SVC_num INCAT_num TRS tnex_num email_num;
LEVELS 5 4 3 4 2 3 2 2 3 3;
REFLEVEL AGE_num5=1 PATC_num=4 PCM_num=1 RANK_num=1 SEX_num=1 SVC_num=1 INCAT_num=1 TRS=2
tnex_num=1 email_num=1;
MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
RANK_num
PATC_num
SVC_num
PATC_num*SVC_num
AGE_num5*PATC_num
RANK_num*SVC_num
PCM_num
AGE_num5*RANK_num
incat_num
PATC_num*RANK_num
SEX_num

```

```

AGE_num5*SEX_num
CHCSAddr
/*AGE_num5*PATC_num*RANK_num*/ /*1st*/
TNEX_num
AGE_num5*SVC_num
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_c filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PATC.;
rformat PCM_num FMT_PCM.;
rformat RANK_num FMT_RANK.;
rformat SEX_num FMT_SEX.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs fmt_trs.;
rformat tnex_num fmt_tnex.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_emai.;
run;

**Removing: Age*svc, P-value =0.1986
HL Sattert-hwaite P-value = 0.1195;

Title3 " The Final Model from SAS Stepwise - CONUS ";
Title4 " Run3: Remove (Age*Patc*Rank)";
proc rlogist data=conus design=STRWR filetype=SAS;
NEST STRAT_nm/missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num RANK_num SEX_num SVC_num INCAT_num TRS tnex_num email_num;
LEVELS 5 4 3 4 2 3 2 2 3 3;
REFLEVEL AGE_num5=1 PATC_num=4 PCM_num=1 RANK_num=1 SEX_num=1 SVC_num=1 INCAT_num=1 TRS=2
tnex_num=1 email_num=1;
MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
RANK_num
PATC_num
SVC_num
PATC_num*SVC_num
AGE_num5*PATC_num
RANK_num*SVC_num
PCM_num
AGE_num5*RANK_num
incat_num
PATC_num*RANK_num
SEX_num
AGE_num5*SEX_num
CHCSAddr
/*AGE_num5*PATC_num*RANK_num*/ /*1st*/
TNEX_num
/*AGE_num5*SVC_num*/ /*2nd*/
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_c filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PATC.;
rformat PCM_num FMT_PCM.;
rformat RANK_num FMT_RANK.;
rformat SEX_num FMT_SEX.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs fmt_trs.;
rformat tnex_num fmt_tnex.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_emai.;
run;

```

**Removing: Tnex, P-value =0.1874
 HL Sattert-hwaite P-value = 0.0425;

```
Title3 " The Final Model from SAS Stepwise - CONUS ";
Title4 " Run4: Remove (Age*Patc*Rank)";
proc rlogist data=conus design=STRWR filetype=SAS;
NEST STRAT_nm/missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num RANK_num SEX_num SVC_num INCAT_num TRS tnex_num email_num;
LEVELS 5 4 3 4 2 3 2 2 3 3;
REFLEVEL AGE_num5=1 PATC_num=4 PCM_num=1 RANK_num=1 SEX_num=1 SVC_num=1 INCAT_num=1 TRS=2
tnex_num=1 email_num=1;
MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
RANK_num
PATC_num
SVC_num
PATC_num*SVC_num
AGE_num5*PATC_num
RANK_num*SVC_num
PCM_num
AGE_num5*RANK_num
incat_num
PATC_num*RANK_num
SEX_num
AGE_num5*SEX_num
CHCSAddr
/*AGE_num5*PATC_num*RANK_num*/ /*1st*/
/*TNEX_num */ /*3rd*/
/*AGE_num5*SVC_num*/ /*2nd*/
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_c filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PATC.;
rformat PCM_num FMT_PCM.;
rformat RANK_num FMT_RANK.;
rformat SEX_num FMT_SEX.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs fmt_trs.;
rformat tnex_num fmt_tnex.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_email.;
run;
```

* HL Sattert-hwaite P-value = 0.2824
 *<<<<< CONUS FINAL MODEL >>>>>>>>
 (Note: We do have warning in log, which is a Sudaan bug);

```
*=====
===
Start the modeling for OCONUS
In the full model, all the variables put in the answer tree are used as main effects, and
the interactions are picked based on the tree for Oconus A1 for the current quarter
=====
==;

/*The interactions below are determined based on the oconus A1 tree for the current quarter*/
/*A lot of zero cells are due to the ACTDTY_EMAIL,ACTDTY_NOEMAIL,
so combine these two categories for OCONUS*/
data oconus;
set oconus;
patc_grp_old=patc_grp;
age_grp5_old=age_grp5;
if patc_grp in ('ACTDTY_EMAIL','ACTDTY_NOEMAIL') then PATC_grp='ACTDTY';
if PATC_grp='ACTDTY' then PATC_num=1;
else if PATC_grp='DEPACT' then PATC_num=2;
else if PATC_grp='NADD' then PATC_num=3;
```

```

if age_grp5='5' then do; age_grp5='4';
age_num5=4;
end;
run;

title3 'check the collapsements';
proc freq data=oconus;
tables patc_grp*patc_grp_old
      patc_grp*patc_num
      age_grp5*age_grp5_old
      /missing list;
run;

%let Vars_in_interactions_oconus = age_grp5 patc_grp pcm_grp pnlc_grp svc_grp sex_grp rank_grp
in_catch;

%let Interactions_from_chaid_oconus =
/*Q4FY2010: Interactions from Chaid OconusA1 Tree*/
age_grp5*patc_grp*sex_grp
age_grp5*patc_grp*rank_grp
age_grp5*patc_grp*svc_grp
age_grp5*patc_grp*in_catch

age_grp5*patc_grp
age_grp5*sex_grp
patc_grp*sex_grp

age_grp5*rank_grp
patc_grp*rank_grp

age_grp5*svc_grp
patc_grp*svc_grp

age_grp5*in_catch
patc_grp*in_catch
;

title3 "Check the zero cells for oconus";
%ZERO_ONE_CELLS(oconus, &Vars_in_interactions_oconus., eligkwn,
&Interactions_from_chaid_oconus.);

title3 "Q4FY2010: Check to see how to collapse : Oconus";
proc freq data=oconus;
tables
age_grp5*patc_grp*rank_grp*eligkwn
age_grp5*patc_grp*in_catch*eligkwn
/missing list SPARSE;
run;

/*Collapse the Zero Cells*/
/*Q4FY2010*/
data oconus;
set oconus;
patc_grp_old=patc_grp;
in_catch_old=in_catch;

if age_grp5 = '2' and patc_grp='NADD' and rank_grp IN ('W1230123','W45045678910') then do;
patc_grp='DEPACT';
patc_num=2;
Flag1=1;
end;
else if age_grp5 = '2' and patc_grp='NADD' and in_catch='1' then do;
in_catch='0';
incat_num=1;
flag2=1;
end;
run;

title3 "Check the zero cells for oconus again";
%ZERO_ONE_CELLS(oconus, &Vars_in_interactions_oconus., eligkwn,
&Interactions_from_chaid_oconus.);

```

```

title3 'Q4FY2010: check zero cell collapsements (OCONUS)';
proc freq data=oconus;
tables age_grp5*patc_grp*rank_grp*patc_grp_old*flag1/missing list;
tables age_grp5*patc_grp*in_catch*in_catch_old*flag2/missing list;
run;

data oconus;
  set oconus(drop= patc_grp_old in_catch_old flag1 flag2);
run;

/* SAS modeling*/
%macro modelselect_oconus(method= );
title3 "SAS Logistic for OCONUS - &method.";
proc logistic data=oconus descending;
CLASS
AGE_grp5 (ref='1')
PATC_grp (ref='NADD')
PCM_grp (ref='NON')
PNLC_grp (ref='Other')
RANK_grp (ref='E1234')
SEX_grp (ref='1')
SVC_grp (ref='Army')
IN_CATCH (ref='0')
TRS (ref='2')
CHCSAddr (ref='0')
HASEmail(ref='YES')/param=ref descending;
MODEL eligkwn =
AGE_grp5
PATC_grp
PCM_grp
PNLC_grp
RANK_grp
SEX_grp
SVC_grp
IN_CATCH
TRS
CHCSAddr
HasEmail
/*Q4FY2010: Interactions from Chaid OconusA1 Tree*/
age_grp5*patc_grp*sex_grp
age_grp5*patc_grp*rank_grp
age_grp5*patc_grp*svc_grp
age_grp5*patc_grp*in_catch

age_grp5*patc_grp
age_grp5*sex_grp
patc_grp*sex_grp

age_grp5*rank_grp
patc_grp*rank_grp

age_grp5*svc_grp
patc_grp*svc_grp

age_grp5*in_catch
patc_grp*in_catch

/Lackfit rsquare details hierarchy=single selection=&method. slentry=0.15 slstay=0.20;
OUTPUT OUT=out_oconus PREDICTED=predicted;
run;
%mend modelselect_oconus;

%modelselect_oconus(method=stepwise);

```

```

/*Q4FY2010:

```

		Summary of Stepwise Selection					
Wald		Effect		Number		Score	
Step	Entered	Removed	DF	In	Chi-Square	Pr >	ChiSq
Chi-Square	Pr >	ChiSq					

<.0001	1	AGE_grp5	3	1	276.0817
<.0001	2	PATC_grp	2	2	91.0448
<.0001	3	SVC_grp	2	3	39.6002
<.0001	4	RANK_grp	3	4	31.7640
<.0001	5	PATC_grp*SVC_grp	4	5	25.3596
0.0003	6	HasEmail	2	6	16.5426
0.0092	7	PATC_grp*RANK_grp	6	7	17.0351
0.0144	8	AGE_grp5*RANK_grp	9	8	20.6363
0.0280	9	AGE_grp5*PATC_grp	6	9	14.1457

*/

```
proc sort data=oconus;
by STRAT_nm;
run;
```

```
title3 "The Final Model from SAS stepwise -OCONUS";
title4 " RUN 1: Initial Model";
proc rlogist data=oconus design=STRWR filetype=SAS;
NEST STRAT_nm / missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num PNLC_num RANK_num SVC_num TRS incat_num email_num;
LEVELS 4 3 3 2 4 3 2 2 3;
REFLEVEL AGE_num5=1 PATC_num=3 PCM_num=1 PNLC_num=1 RANK_num=1 SVC_num=1 TRS=2 incat_num=1
email_num=1;
MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
PATC_num
SVC_num
RANK_num
Email_num
PATC_num*SVC_num
PATC_num*RANK_num
AGE_num5*RANK_num
AGE_num5*PATC_num
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_o filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PAT.;
rformat PCM_num FMT_PCM.;
rformat PNLC_num FMT_PNLC.;
rformat RANK_num FMT_RanK.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs FMT_TRS.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_email.;
run;
```

* Remove: Email for Singularity Warning in Log;

```
title3 "The Final Model from SAS stepwise -OCONUS";
title4 " RUN 2: Remove Email for warning in Log";
proc rlogist data=oconus design=STRWR filetype=SAS;
NEST STRAT_nm / missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num PNLC_num RANK_num SVC_num TRS incat_num email_num;
LEVELS 4 3 3 2 4 3 2 2 3;
REFLEVEL AGE_num5=1 PATC_num=3 PCM_num=1 PNLC_num=1 RANK_num=1 SVC_num=1 TRS=2 incat_num=1
email_num=1;
```

```

MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
PATC_num
SVC_num
RANK_num
/*Email_num*/
PATC_num*SVC_num
PATC_num*RANK_num
AGE_num5*RANK_num
AGE_num5*PATC_num
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_o filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PAT.;
rformat PCM_num FMT_PCM.;
rformat PNLC_num FMT_PNLC.;
rformat RANK_num FMT_RanK.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs FMT_TRS.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_email.;
run;

* Removing (PATC*RANK) 0.1019;
* H-l Sattert-hwaite P-value =0.0355 ;

```

```

title3 "The Final Model from SAS stepwise -OCONUS";
title4 " RUN 3: Remove- Email/(PATC*RANK)";
proc rlogist data=oconus design=STRWR filetype=SAS;
NEST STRAT_nm / missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num PNLC_num RANK_num SVC_num TRS incat_num email_num;
LEVELS 4 3 3 2 4 3 2 2 3;
REFLEVEL AGE_num5=1 PATC_num=3 PCM_num=1 PNLC_num=1 RANK_num=1 SVC_num=1 TRS=2 incat_num=1
email_num=1;
MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
PATC_num
SVC_num
RANK_num
/*Email_num*/
PATC_num*SVC_num
/*PATC_num*RANK_num*/
AGE_num5*RANK_num
AGE_num5*PATC_num
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_o filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PAT.;
rformat PCM_num FMT_PCM.;
rformat PNLC_num FMT_PNLC.;
rformat RANK_num FMT_RanK.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs FMT_TRS.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_email.;
run;
* Removing (AGE*PATC) 0.0170;
* H-l Sattert-hwaite P-value =0.0532 ;

```

```

title3 "The Final Model from SAS stepwise -OCONUS";
title4 " RUN 4: Remove- Email/(PATC*RANK)/(AGE*{PATC})";
proc rlogist data=oconus design=STRWR filetype=SAS;
NEST STRAT_nm / missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num PNLc_num RANK_num SVC_num TRS incat_num email_num;
LEVELS 4 3 3 2 4 3 2 2 3;
REFLEVEL AGE_num5=1 PATC_num=3 PCM_num=1 PNLc_num=1 RANK_num=1 SVC_num=1 TRS=2 incat_num=1
email_num=1;
MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
PATC_num
SVC_num
RANK_num
/*Email_num*/
PATC_num*SVC_num
/*PATC_num*RANK_num*/ /*2nd*/
AGE_num5*RANK_num
/*AGE_num5*PATC_num*/ /*3rd*/
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_o filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PAT.;
rformat PCM_num FMT_PCM.;
rformat PNLc_num FMT_PNLc.;
rformat RANK_num FMT_RanK.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs FMT_TRS.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_email.;
run;
* Removing (AGE*RANK) 0.0125;
* H-1 Sattert-hwaite P-value =0.1038;

```

```

title3 "The Final Model from SAS stepwise -OCONUS";
title4 " RUN 4: Remove- Email/(PATC*RANK)/(AGE*{PATC})/(AGE*RANK)";
proc rlogist data=oconus design=STRWR filetype=SAS;
NEST STRAT_nm / missunit;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num PNLc_num RANK_num SVC_num TRS incat_num email_num;
LEVELS 4 3 3 2 4 3 2 2 3;
REFLEVEL AGE_num5=1 PATC_num=3 PCM_num=1 PNLc_num=1 RANK_num=1 SVC_num=1 TRS=2 incat_num=1
email_num=1;
MODEL eligkwn =
/*Q4FY2010*/
AGE_num5
PATC_num
SVC_num
RANK_num
/*Email_num*/
PATC_num*SVC_num
/*PATC_num*RANK_num*/ /*2nd*/
/*AGE_num5*RANK_num*/
/*AGE_num5*PATC_num*/ /*3rd*/
;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI
WALDCHP/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2;
output expected observed nest idvar /filename =pred_o filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PAT.;
rformat PCM_num FMT_PCM.;
rformat PNLc_num FMT_PNLc.;
rformat RANK_num FMT_RanK.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;

```



```

rformat trs FMT_TRS.;
rformat chcsaddr fmt_addr.;
rformat email_num fmt_emai.;
run;
* H-l Sattert-hwaite P-value =0.6920;
*** FINAL OCONUS MODEL ***** ;

*=====
===
Compute the unknown eligibility adjustment factor A1
=====
==;
data pred;
set pred_c pred_o;
run;

proc sort data=pred;
by mprid_nm;
run;

proc sort data=logmdA1;
by mprid_nm;
run;

data logmdA1 only1 only2 problem;
merge logmdA1(in=A) pred(in=B);
by mprid_nm;
if A and B then output logmdA1;
else if A and NOT B then output only1;
else if B and NOT A then output only2;
else output problem;
run;

data out.logmdA1;
set logmdA1(rename=(expected=PscoreA1) drop=MPRID_c9 stratum1);
label TNEX_grp="Facility's TNEX region"
      PscoreA1="Propensity score for unknown eligibility adjustment";
run;

title3 "Contents of OUT.logmdA1";
title4;
proc contents data=OUT.logmdA1;
run;

title3 "Univariate of expected";
title4;
proc univariate data=out.logmdA1;
var PscoreA1;
run;

***** The End *****;

```

F.8 Q4FY2010\PROGRAMS\WEIGHTING\NEWWEIGHTS\ADJWT1.SAS - FORM THE WEIGHTING CLASSES FROM THE PROPENSITY SCORES THEN CALCULATE THE UNKNOWN ELIGIBILITY ADJUSTED WEIGHT - RUN QUARTERLY.

```

dm 'clear output;clear log';
*****
***
*** Program: L:\Q4FY2010\Programs\Weighting\NewWeights\Adjwt1.sas
*** Task : 06663.300
*** Purpose: - Create the weighting class cells based on the propensity from the unknown
eligibility modelling
***           - Calculate the unknown eligibility adjusted weight
***
*** Inputs:  logmdA1.sas7bdat, framea.sd2
*** Outputs: adjwt1.sas7bdat
***
*** Note: 1)Haixia Xu 12/27/2006
***       2)H. Xu on 3/29/2007 for q3fy2007 weighting
***       3)S.Rahman on 09/16/2009 for Q4FY2009 Adult Weighting
***       4)S.Rahman on 03/19/2010 for Q2FY2010 Adult Weighting
***       5)S.Rahman on Sep 2010 for Q4FY2010:
***       We got really big postwt of over 10.000,and adjwt1 of over 9000.
***       In adjwt1.sas, we need to collapse pcell_al 1001 with 1002.
*****
***;

options ls=132 ps=79 compress=yes nocenter FORMCHAR='|+-----+' formdlim='~' obs=max;

%let quarter=Q4FY2010;

libname in      "L:\&quarter.\Data\afinal"; /* logmdA1.sas7bdat */
libname in_f    "L:\&quarter.\Data\afinal"; /* framea.sas7bdat */
libname out     "L:\&quarter.\Data\afinal"; /* adjwt1.sas7bdat */

title1 "Program: Adjwt1.sas (&quarter.)";
title2 "Purpose: Calculate the unknown Eligibility Adjusted Weight";

***Calculate the denciles within conus region;
%macro univ_conus(inputdata=, step=, region=, var=, cellvar=, outputdata=);
/*
title3 "Univariate of &var. for conus=&region.";
proc sort data=&inputdata.;by eligkwn;run;
proc univariate data=&inputdata. plots;
var &var.;
where conus="&region.";
by eligkwn;
run;
*/
proc univariate data=&inputdata. noprint;
var &var.;
where conus="&region.";
output out=out pctlpts =10 20 30 40 50 60 70 80 90 pctlpre=cutoff;
run;

title3 "Cutoff points for conus=&region.";
proc print data=out;
var cutoff10 cutoff20 cutoff30 cutoff40 cutoff50
    cutoff60 cutoff70 cutoff80 cutoff90;
run;

data temp;
set &inputdata.;
M=1;
where conus="&region.";
run;

data out;
set out;
M=1;
run;

data &outputdata.;
merge temp out;
by M;

```

```

run;

data &outputdata.;
set &outputdata.;
length &cellvar. $4;
if &var.<=cutoff10 then &cellvar. = "&step.&region.01"; **10th percentile or less;
else if &var.<=cutoff20 then &cellvar. = "&step.&region.02"; **between 10th and 20th
percentile;
else if &var.<=cutoff30 then &cellvar. = "&step.&region.03"; **between 20th and 30th
percentile;
else if &var.<=cutoff40 then &cellvar. = "&step.&region.04"; **between 30th and 40th
percentile;
else if &var.<=cutoff50 then &cellvar. = "&step.&region.05"; **between 40th and 50th
percentile;
else if &var.<=cutoff60 then &cellvar. = "&step.&region.06"; **between 50th and 60th
percentile;
else if &var.<=cutoff70 then &cellvar. = "&step.&region.07"; **between 60th and 70th
percentile;
else if &var.<=cutoff80 then &cellvar. = "&step.&region.08"; **between 70th and 80th
percentile;
else if &var.<=cutoff90 then &cellvar. = "&step.&region.09"; **between 80th and 90th
percentile;
else if &var. >cutoff90 then &cellvar. = "&step.&region.10"; **greater than 90th percentile;
run;

data &outputdata.;
set &outputdata.;
drop cutoff10 cutoff20 cutoff30 cutoff40 cutoff50
      cutoff60 cutoff70 cutoff80 cutoff90 M;
run;

title3 "Freq of &cellvar.*&var. for conus=&region.";
proc freq data=&outputdata.;
tables &cellvar. &cellvar.*&var. /missing list;
run;
/*
title3 "Univariate of &var. for conus=&region. by &cellvar.";
proc sort data=&outputdata.;by &cellvar. eligkwn;run;
proc univariate data=&outputdata. plots;
var &var.;
where conus="&region.";
by &cellvar. eligkwn;
run;
*/
%mend univ_conus;

***Calculate the 20th percentiles within oconus region;
%macro univ_oconus(inputdata=, step=, region=, var=, cellvar=, outputdata=);
/*
title3 "Univariate of &var. for conus=&region.";
proc sort data=&inputdata.;by eligkwn;run;
proc univariate data=&inputdata. plots;
var &var.;
where conus="&region.";
by eligkwn;
run;
*/
proc univariate data=&inputdata. noprint;
var &var.;
where conus="&region.";
output out=out pctlpts =20 40 60 80 pctlpre=cutoff;
run;

title3 "Cutoff points for conus=&region.";
proc print data=out;
var cutoff20 cutoff40 cutoff60 cutoff80 ;
run;

data temp;
set &inputdata.;
M=1;
where conus="&region.";
run;

```

```

data out;
set out;
M=1;
run;

data &outputdata.;
merge temp out;
by M;
run;

data &outputdata.;
set &outputdata.;
length &cellvar. $4;
if &var.<=cutoff20 then &cellvar. = "&step.&region.01"; **20th percentile or less;
else if &var.<=cutoff40 then &cellvar. = "&step.&region.02"; **between 20th and 40th
percentile;
else if &var.<=cutoff60 then &cellvar. = "&step.&region.03"; **between 40th and 60th
percentile;
else if &var.<=cutoff80 then &cellvar. = "&step.&region.04"; **between 60th and 80th
percentile;
else if &var. >cutoff80 then &cellvar. = "&step.&region.05"; **greater than 80th percentile;
run;

data &outputdata.;
set &outputdata.;
drop cutoff20 cutoff40 cutoff60 cutoff80 M;
run;

title3 "Freq of &cellvar.*&var. for conus=&region.";
proc freq data=&outputdata.;
tables &cellvar. &cellvar.*&var. /missing list;
run;
/*
title3 "Univariate of &var. for conus=&region. by &cellvar.";
proc sort data=&outputdata.;by &cellvar. eligkwn;run;
proc univariate data=&outputdata. plots;
var &var.;
where conus="&region.";
by &cellvar. eligkwn;
run;
*/
%mend univ_oconus;

*****
Compute the decile of PscoreA1 within conus/oconus region
*****;
%univ_conus(inputdata=in.logmdA1, step=1, region=1, var=PscoreA1, cellvar=Pcell_A1,
outputdata=Alconus);
%univ_oconus(inputdata=in.logmdA1, step=1, region=0, var=PscoreA1, cellvar=Pcell_A1,
outputdata=Aloconus);

***combine conus/oconus together;
*NOTE (Q4Fy2010): We got big adjwt1 of over 9000. In adjwt1.sas,
we need to collapse pcell_a1 1101 with 1102 (highest weight);
data merged;
set Alconus Aloconus;
/*
if Pcell_A1='1001' then Pcell_A1='1002';
*/
if Pcell_A1='1101' then Pcell_A1='1102'; *Q4FY2010;
run;

*****
* Start to calculate the adjusted weight using the weighting class method
*****;

%MACRO PROCESS(DOMAIN1, INPT);

*** Initial Information. ***;

title3 "Frame (FRAMEA) Count";
proc freq data=in_f.framea;
table enbgsmpl / list missing;
run;

```

```

title3 "Weighted Counts Using BWT as the Weight - excluding fnstatus=32";
proc freq data=&inpt.;
table enbgsmpl fnstatus / list missing;
weight bwt;
run;

title3 "Sample Counts - excluding fnstatus=32";
proc freq data=&inpt.;
table enbgsmpl fnstatus web*fnstatus/ list missing;
run;

PROC SORT DATA=&inpt.;
BY &DOMAIN1.;
RUN;

*****
* Calculate adjustment factor A1 for each cell.
* This is the Eligibility Determination adjustment.
*****;
Data cellsal (keep=sumbwt sumg1-sumg3 A1 cellcnt cntg1-cntg3 &domain1. )
mpridsal (keep=mprid fnstatus bwt &domain1. com_geo enbgsmpl)
;
SET &INPT.;
BY &DOMAIN1.;

IF FIRST.&DOMAIN1. THEN DO;
CELLCNT = 0;
cntg1 = 0;
cntg2 = 0;
cntg3 = 0;
SUMBWT = 0.0;
SUMG1 = 0.0;
SUMG2 = 0.0;
SUMG3 = 0.0;
A1 = 0.0;
END;
CELLCNT + 1;

*****
* Accumulate total weight sum
*****;

SUMBWT + BWT;

*****
* Accumulate group 1 weight sum
*****;
IF FNSTATUS IN (11,12) THEN
do;
SUMG1 + BWT;
cntg1 + 1;
end;

*****
* Accumulate group 2 weight sum
*****;
ELSE IF FNSTATUS in (20,31) THEN
do;
SUMG2 + BWT;
cntg2 + 1;
end;

*****
* Accumulate group 3 weight sum
*****;
ELSE IF FNSTATUS in (41,42) THEN
do;
SUMG3 + BWT;
cntg3 + 1;
end;

RETAIN SUMBWT SUMG1-SUMG3 A1 CELLCNT cntg1-cntg3 MPRID;

```

```

IF LAST.&DOMAIN1. THEN DO;
  A1 = SUMBWT/(SUMG1 + SUMG2);
  OUTPUT CELLSA1;
END;

OUTPUT MPRIDSA1;

RUN;

title3 "Check for CELLSA1 Data Set";
proc print data=cellsal;
var &domain1. cntg1-cntg3 cellcnt sumg1-sumg3 sumbwt a1;
sum cellcnt cntg1 cntg2 cntg3 sumbwt sumg1 sumg2 sumg3;
run;

title3 "Checks the Adjustment ratio";
title4 "Print if: ( a1 > 7 ) or ( cntg1 + cntg2 < 15 )";
proc print data=cellsal;
where ( a1 > 7 ) or ( cntg1 + cntg2 < 15 );
var &domain1. cntg1-cntg3 cellcnt sumg1-sumg3 sumbwt a1;
sum cellcnt cntg1 cntg2 cntg3 sumbwt sumg1 sumg2 sumg3;
run;

title3 "Univariate of Adjustment ratio (A1)";
proc univariate data=cellsal normal ;
var a1;
run;

proc sort data=mpridsal;
by &domain1.;
run;

proc sort data=cellsal;
by &domain1.;
run;

data adj_one;
merge mpridsal cellsal;
by &domain1.;
if fnstatus in (11,12,20,31) then adj1 = a1;
else adj1 = 0;
adjwt1 = adj1 * bwt;
run;

title3 "Checks for ADJ_ONE Data Set";
title4 "Cross Freq of fnstatus and Adjustment Factor by various Domains";
proc freq data=adj_one;
table &domain1.*fnstatus*adj1/ list missing;
run;

title3 "Checks for ADJ_ONE Data Set";
title4 "Cross Freq of Adjusted Weight (Adjwt1) and BWT by various Domains";
proc freq data=adj_one;
tables adjwt1*&domain1.*bwt/missing list;
where adjwt1 ~=0;
run;

/*
proc freq data=adj_one;
tables &domain1.*stratum*bwt/missing list;
where adjwt1 ~=0;
run;
*/

title3 " Checking the individuals with the largest adjwt";
proc sort data=adj_one out=sorted;
by descending adjwt1;
run;

title3 " Checking the individuals with the largest adjwt";
title4 " sorting adjwt1 descending order (obs=200)";
proc print data=sorted (obs=200);
var &domain1. fnstatus BWT a1 adj1 adjwt1 ;
run;

```

```

proc means data=adj_one n sum NOPRINT;
class fnstatus;
var adjwt1;
output out=print sum=sum;
run;

Title3 "Print the Proc Means of Adjwt1 by fnstatus";
Proc print data=print;
sum _freq_ sum;
where _type_=1;
run;

proc means data=adj_one n sum NOPRINT;
class enbgsmpl;
var adjwt1;
output out=print sum=sum;
run;

Title3 "Print the Proc Means of Adjwt1 by enbgsmpl";
Proc print data=print;
sum _freq_ sum;
where _type_=1;
run;

*****
* Sort the original data
*****;
PROC SORT DATA=&INPT.;
BY MPRID;
RUN;

*****
* Sort the ADJ_ONE data set
*****;
PROC SORT DATA=adj_one;
BY MPRID;
RUN;

*****
* Append the adjusted weight variable (adjwt1)
*****;
DATA out.adjwt1;
MERGE adj_one(in=A) &INPT.(in=B);
BY MPRID;
if A and B;
RUN;

title3 "Sum of Adjusted Weight (Adjwt1) by Final Status";
proc means data=out.adjwt1 n sum NOPRINT;
class fnstatus;
var adjwt1;
output out=print sum=sum;
run;

Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;

title3 "Proc Univariate of Adjusted Weight";
title4 "Propensity Score Weighting Method - Individual Level Adjwt";
title5 " where fnstatus=11";
proc univariate data=out.adjwt1 normal ;
where fnstatus=11;
var adjwt1;
run;

/*Beneficiary's tnexreg*/
proc sort data=out.adjwt1;
by tnexreg;
run;

title3 "Distribution of weights by tnexreg";

```

```

title4 " where fnstatus=11";
proc means data=out.adjwt1 noprint ;
where fnstatus=11;
var adjwt1;
by tnexreg;
output out=out_tnex(drop=_type_ _freq_) n=n mean=mean std=stddev min=min max=max ;
run;

proc print data=out_tnex;
sum n;
run;

/*Facility's tnexreg*/
proc sort data=out.adjwt1;
by TNEX_grp;
run;

title3 "Distribution of weights by Facility's TNEX region: TNEX_grp";
title4 " where fnstatus=11";
proc means data=out.adjwt1 noprint ;
where fnstatus=11;
var adjwt1;
by TNEX_grp;
output out=out_tnex(drop=_type_ _freq_) n=n mean=mean std=stddev min=min max=max ;
run;

proc print data=out_tnex;
sum n;
run;

*****
* Calculate final weight based on user-specified parameters.
*****;
%MEND PROCESS;
%PROCESS(Pcell_A1, merged);
RUN;

```


F.9 Q4FY2010\PROGRAMS\WEIGHTING\NEWWEIGHTS\ADJWT2.SAS - FORM THE WEIGHTING CLASSES BASED ON THE ANSWER TREES THEN CALCULATE THE NONRESPONSE ADJUSTED WEIGHT - RUN QUARTERLY.

```

*****
***
*** Program: L:\Q4FY2010\Programs\Weighting\NewWegihts\Adjwt2.sas
*** Task   : 06663.300
*** Purpose: Calculate the final adjusted weight
*** Inputs:  smplA2.sas7bdat, adjwt1.sas7bdat
*** Outputs: Adjwt2.sas7bdat
***
*** Note:   1)Haixia Xu 12/27/2006
***         2)H. Xu on 03/29/2007 for q2fy2007 weightitng
***         2)S. Rahman on 03/19/2010 for Q2FY2010 Adult Weightitng
*****
***;

options ls=132 ps=79 compress=yes nocenter FORMCHAR='|+-----+' formdlm='~';

%let quarter=Q4FY2010;

libname in   v8 "L:\&quarter.\Data\afinal"; /* smplA2.sas7bdat, adjwt1.sas7bdat */
libname out  v8 "L:\&quarter.\Data\afinal"; /* adjwt2.sas7bdat */

title1 "Program: adjwt2.sas (&quarter.)";
title2 "Purpose: Calculate the nonresponse adjusted weight";

*****
Merge smplA2 with adjwt1 to get the variable adjwt1
*****;
proc sort data=in.smplA2 out=smplA2;
by MPRID;
run;

proc sort data=in.adjwt1(keep=MPRID adj1 adjwt1)
out=adjwt1;
by MPRID;
run;

data merged only1 only2 problem;
merge smplA2(in=A) adjwt1(in=B);
by MPRID;
if A and B then output merged;
else if A and NOT B then output only1;
else if B and NOT A then output only2;
else output problem;
run;

*****
Since there is not much going on in 2nd stage, we decided not to do the modeling,
and instead to create the weight cells based on the A2 tree for the current quarter.
Pcell_A2=adjustment stage|region|cell index.
adjustment stage: 1-unknown eligibility adjustment stage, 2 - nonresponse adjustment stage
region: 1 - conus, 0-oconus
cell index: 01- #of terminal nodes
*****;
data merged;
set merged;
length Pcell_A2 $4;

/*Q2FY2010 for Conus (Based on Conus_A2_level3_AgeGRP5_tree.htm)*/
if conus='1' then do;
  if age_grp5 in ('5') then do;
    if sex_Grp in ('2') then Pcell_A2='2101';
    else Pcell_A2='2102';
  end;
  else if age_grp5 in ('4') then do;
    if sex_Grp in ('2') then Pcell_A2='2103';
    else if sex_grp = '1' and pnlc_grp = 'Other' then Pcell_A2='2104';
    else if sex_grp = '1' and pnlc_grp = 'Grd/Resv' then Pcell_A2='2105';
  end;
  else if age_grp5 in ('1') then do;

```

```

if sex_grp in ('2') then do;
  if svc_grp = 'Army' then Pcell_A2='2106';
  else if svc_grp = 'Air Force' then Pcell_A2='2107';
  else if svc_grp = 'N/M/C/O/U' then Pcell_A2='2108';
end;
else if sex_grp = '1' then do;
  if svc_grp in ('Army', 'Air Force') then Pcell_A2='2109';
  else if svc_grp = 'N/M/C/O/U' then Pcell_A2='2110';
end;
end;
else if age_grp5 in ('2','3') then do;
  if PATC_grp in ('DEPACT', 'ACTDTY_NOEMAIL','NADD') then do;
    if pnlc_grp = 'Other' then Pcell_A2='2111';
    else if pnlc_grp = 'Grd/Resv' then Pcell_A2='2112';
  end;
  else if patc_grp in ('ACTDTY_EMAIL') then do;
    if in_catch = '0' then Pcell_A2='2113';
    else if in_catch = '1' then Pcell_a2 = '2114';
  end;
end;
end;
else if conus='0' then do;
  if age_grp5 in ('2','3','4') then do;
    if chcsaddr = '0' then Pcell_A2='2001';
    else if chcsaddr = '1' then do;
      if PATC_grp in ('DEPACT', 'ACTDTY_NOEMAIL','NADD') then Pcell_A2='2002';
      else if patc_grp in ('ACTDTY_EMAIL') then Pcell_A2='2003';
    end;
  end;
  else if age_grp5 in ('1', '5') then Pcell_A2='2004';
end;
run;

title3 'Check the construction of weighting classes';
proc freq data=merged;
tables conus*Pcell_A2/missing list;
run;

title3 'Check the Construction of Weighting Classes (CONUS)';
proc freq data=merged;
where conus='1';
tables pcell_a2*age_grp5*sex_grp*pnlc_grp
       pcell_a2*age_grp5*sex_grp*svc_grp
       pcell_a2*age_grp5*patc_grp*pnlc_grp*in_catch/missing list;
run;

title3 'Check the Construction of Weighting Classes (OCONUS)';
proc freq data=merged;
where conus='0';
tables pcell_a2*age_grp5*chcsaddr*patc_grp/missing list;
run;

* Calculate nonresponse adjusted weight based on user-specified domains.
*****;
%MACRO PROCESS(DOMAIN2, INPT);

title3 "Freq of fnstatus";
proc freq data=&inpt.;
tables fnstatus/missing list;
run;

proc sort data=&inpt.;
BY &domain2.;
run;

DATA CELLSA2 (KEEP= &domain2. NUMER DENOM numercnt denomcnt A2);
set &inpt. ;
BY &domain2.;

IF FIRST.&domain2. THEN DO;
  A2 = 0.0;
  NUMER = 0.0;
  DENOM = 0.0;

```

```

        numercnt = 0;
        denomcnt = 0;
    END;

    RETAIN NUMER DENOM A2 numercnt denomcnt;

    IF FNSTATUS IN (11,12,20) THEN
        do;
            NUMER + adjwt1;
            numercnt + 1;
        end;

    IF FNSTATUS = 11 THEN
        do;
            DENOM + adjwt1;
            denomcnt + 1;
        end;

    IF LAST.&domain2. THEN DO;
        A2 = NUMER/DENOM;
        OUTPUT CELLSA2;
    END;
RUN;

title3 "Check for CELLSA2 Data Set";
title4 "Checks the Adjustment Ratio";
proc print data=cellsa2;
var &domain2. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

title3 "Checks the Adjustment Ratio";
title4 "Print if ( a2 > 7 ) or ( denomcnt < 15 )";
proc print data=cellsa2;
where ( a2 > 7 ) or ( denomcnt < 15 );
var &domain2. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

title3 "Proc Univariate of Adjustment Ratio (A2)";
proc univariate data=cellsa2 normal ;
var a2;
run;

proc sort data=cellsa2;
by &domain2.;
run;

data adjwt2;
merge &inpt. cellsa2;
by &domain2.;
if fnstatus = 11 then adj2 = a2;
else adj2 = 0;
adjwt2 = adj2 * adjwt1;
label adjwt2 = "Nonresponse adjusted weight";
KEEP MPRID fnstatus enbgsmpl adj1 adj2 adjwt1 &domain2. a2 adjwt2 ;
run;

title3 "Check for ADJWT2 Data Set";
title4 "Cross Freq of fnstatus and Adjustment Factor (adj2) with variaous Domains";
proc freq data=adjwt2;
table &domain2.*fnstatus*adj2 / list missing;
run;

proc means data=adjwt2 n sum NOPRINT;
class fnstatus;
var adjwt2;
output out=print sum=sum;
run;

title3 "Printing proc means of Adjust2 by fnstatus";
Proc print data=print noobs;
sum _freq_ sum;

```

```

where _type_=1;
run;

proc means data=adjwt2 n sum NOPRINT;
class enbgsmpl;
var adjwt2;
output out=print sum=sum;
run;

title3 "Printing proc means of Adjust2 by enbgsmpl";
Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;

data out.adjwt2;
set adjwt2;
run;
%MEND PROCESS;

%PROCESS(Pcell_A2, merged);

title3 "Proc Contents of Nonresponse Adjusted Weight (Adjwt2)";
proc contents data=out.adjwt2;
run;

***** The End *****;

```

F.10 Q4FY2010\PROGRAMS\WEIGHTING\NEWWEIGHTS\ADJWTP.SAS - ASSIGN THE FINAL ADJUSTED WEIGHT FOR EVERYBODY IN THE SAMPLE FILE - RUN QUARTERLY.

```

*****
***
*** Program: L:\Q4FY2010\Programs\Weighting\NewWeights\adjwtp.sas
*** Task   : 06663.300
*** Purpose: Assign the final adjusted weight for everybody in the sample
*** Inputs: Adjwtp1.sas7bdat adjwtp2.sas7bdat, selectq.sas7bdat, framea.sas7bdat
*** Outputs: Adjwtp.sas7bdat
***
*** Note: 1)Haixia Xu 12/27/2006
***       2)H. Xu on 03/29/2007 for q3fy2007 weighting
***       3)Sabrina Rahman on 06/17/08 for q3fy2008 weighting (Adult)
***       4)Sabrina R. on 09/26/08 for Q4fy2008 weighting (Adult)
***       5)Sabrina R. on 09/16/09 for Q4fy2009 weighting (Adult)
***       6)S.Rahman on 03/19/2010 for Q2 Adult Weighting
***       7)S.Rahman on 06/22/2010 for Q3 Adult Weighting
***       8)S.Rahman on 09/24/2010 Adding Extra Code for 38 Overlap (with TSS2010) cases
           Need to create FNSTATUS and other necessary variables for deleted overlap cases
           Please Review/update/delete extra codes each quarter (go back to old quarter).
           Delete library Q409 when not needed
*****
***;

options ls=132 ps=79 compress=yes nocenter FORMCHAR='|+*****+' formdlm='~';

%let quarter=Q4FY2010;

libname inr      "K:\&quarter.";          * extract.sa7bdat, deers001-004.sas7bdat;
libname in       "L:\&quarter.\Data\afinal"; * adjwtp1.sas7bdat, adjwtp2.sas7bdat;
libname inv6     "L:\&quarter.\Data\afinal"; * selectq.sas7bdat;
libname in_f    "L:\&quarter.\Data\afinal"; * framea.sas7bdat;
libname out     "L:\&quarter.\Data\afinal"; * adjwtp.sas7bdat;
libname tss     "L:\TSS\Beneficiary\2010\Data"; * Q4FY2010: 2010 TSS Benef. Study;

title1 "Program: Adjwtp.sas (&quarter.)";
title2 "Purpose: Calculate the final adjusted weight";

*****
* Sort the original data selectq.sd2
*****;
data selectq;
set inv6.selectq
    (keep=BWT COM_GEO D_HEALTH dageqy ENBGSMPL FNSTATUS MPCSMPL MPRID
     PATCAT PCM PNLCDATCD PNSEXCD SERVAFF SEXSMPL STRATUM SVCSMPL WEB TNEXREG);
format _all_;
run;

*----- For Q4FY2010-----;
*Creating variables for overlap cases: FNSTATUS, WEB, MPCSMPL, has_email;
data BWT (KEEP=BWT COM_GEO D_HEALTH dageqy ENBGSMPL MPRID PATCAT
          PCM PNLCDATCD PNSEXCD SERVAFF SEXSMPL STRATUM SVCSMPL TNEXREG);
set in.bwt; *51,000 cases;
run;

data sampla02 (KEEP=MPRID); *Q4FY2010: 50,962 cases (excluding 38 overlap);
set inr.sampla02;
run;

proc sort data=bwt; by mprid; run;
proc sort data=sampla02; by mprid; run;

*Get 15 variables from bwt for 38 cases;
data c38cases;
merge bwt (in=A) sampla02 (in=B);
by MPRID;
if A and NOT B then output c38Cases;
run;

*Get PAYPLNCD, PTNT_ID from Extract to create MPCSMPL for 38 overlap cases;
proc sort data=inr.extract(keep=mprid PTNT_ID PAYPLNCD) out=extract;
by mprid;

```

```

run;

*data with 38 cases;
data c38cases ;
merge c38cases (in=A) extract(in=B);
by MPRID;
if a and b;
run;

* Checking the FNSTATUS for 38 Cases in TSS2010 ;
data selectq_Tss (Keep=MPRID FNSTATUS Rename=(FNSTATUS=FNSTATUS_Tss10));
set tss.selectq;
format _ALL_;
run;

*Final Status of 38 Overlap Cases;
proc sort data = selectq_Tss;
by mprid;
run;

proc sort data = c38cases;
by mprid;
run;

data c38cases inC38 inTss Problem;
merge c38cases(in=A) selectq_Tss (in=B) ;
by mprid;
if A and B then output c38cases;
else if A and not B then output inC38;
else if B and not A then output inTSS;
else output Problem;
run ;

*Creating Necessary variables;
Data c38cases ;
set c38cases;
WEB=.;
*Creating Has_Email for 13 cases (discussed with Keith);
Has_Email='NO';
*Creating MPCSMPL for 13 cases (discussed with Nancy);
IF PAYPLNCD = 'MO' THEN MPCSMPL = 2;
ELSE IF PAYPLNCD = 'MW' THEN MPCSMPL = 3;
ELSE MPCSMPL = 1;
*Creating FNSTATUS for 13 overlap cases ;
IF FNSTATUS_Tss10=11 then FNSTATUS=20;
IF FNSTATUS_Tss10=41 then FNSTATUS=41;
IF FNSTATUS_Tss10=42 then FNSTATUS=42;
Run;

/*
title3 "Checking the Construction of FNSTSTUS for 38 Overlap Cases:";
title4 "***Note: From Q4 Sample, we dropped 38 overlap (between Q4fy2010 and TSS2010) cases***";
title4 "          We want to Add those 38 cases with all necessary variables in Selectq file  ";
proc freq data=c38cases;
tables ptnt_id*mprid*FNSTATUS_Tss10*FNSTATUS/list missing;
tables FNSTATUS web PAYPLNCD*MPCSMPL/list missing;
run;
*/

data c38cases (DROP=PAYPLNCD FNSTATUS_Tss10);
set c38cases;
run;

data selectq;
set selectq c38cases;
run;
*-----end of this section-----;

PROC SORT DATA=selectq;
BY MPRID;
RUN;

*****
* Sort the ADJWT1, ADJWT2, data set

```

```

*****;
PROC SORT DATA=in.adjwt1(keep=mprid pcell_a1 a1 adj1 adjwt1) out=adjwt1;
BY MPRID;
RUN;

PROC SORT DATA=in.adjwt2(keep=mprid pcell_a2 a2 adj2 adjwt2) out=adjwt2;
BY MPRID;
RUN;

PROC SORT DATA=in.smplA1A2(keep=mprid conus tnex_grp chcsaddr /*fnstatus*/) out=smplA1A2;
BY MPRID;
RUN;

*****
* Append final weight variable (adjwt)
*****;
DATA out.adjwtp;
MERGE selectq adjwt1 adjwt2 smplA1A2;
BY MPRID;

encounter=chcsaddr;
drop chcsaddr;

*Assign a1, adj1, adjwt1 for fnstatus=32;
if fnstatus = 32 then do;
a1=1;
adj1=1;
adjwt1 = bwt*adj1;
end;

*Assign a2, adj2, adjwt2 for fnstatus in (31, 32, 41, 42);
if fnstatus in (31, 32, 41, 42) then do;
if fnstatus in (31, 32) then do;
a2=1;
adj2=1;
end;
else if fnstatus in (41, 42) then do;
a2=0;
adj2=0;
end;
adjwt2=adj2*adjwt1;
end;

adjwt = adjwt2;

RUN;

title3 'Sum of Adjwt By Final Status';
proc means data=out.adjwtp n sum NOPRINT;
class fnstatus;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;

title3 'Frame counts By enbgsmpl';
proc freq data=in_f.framea;
tables enbgsmpl/missing list;
run;

title3 'Sum of Adjwt By enbgsmpl';
proc means data=out.adjwtp n sum NOPRINT;
class enbgsmpl;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;

```

```

title3 'Selectq.sd2 using BWT as the weight'; *****;
/*
data selectq;
set inv6.selectq;  *This selectq do no have all 51,000 records;
format _all_;
run;
*/

title4 'Sum of BWT by Final Status';
proc means data=selectq n sum NOPRINT;
class fnstatus;
var bwt;
output out=print sum=sum;
run;

Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;

title3 'Sum of BWT by enbgsmpl';
proc means data=selectq n sum NOPRINT;
class enbgsmpl;
var bwt;
output out=print sum=sum;
run;

Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;

title3 'Checks for Adjwtp Dataset';
proc sort data=out.adjwtp out=chk;
by pcell_a1 pcell_a2 fnstatus;
run;

data sub_chk;
set chk(keep = com_geo stratum pcell_a1 pcell_a2 fnstatus bwt adj1 adj2 adjwtp);
by pcell_a1 pcell_a2 fnstatus;
prodadjs = adj1 * adj2;
retain cellcnt sumadjwtp;
if first.fnstatus then
  do;
    cellcnt = 1;
    sumadjwtp = adjwtp;
  end;
else
  do;
    cellcnt = cellcnt +1;
    sumadjwtp = sumadjwtp + adjwtp;
  end;
if last.fnstatus then output sub_chk;
run;

proc print data=sub_chk noobs;
var pcell_a1 pcell_a2 fnstatus bwt adj1 adj2 prodadjs adjwtp cellcnt sumadjwtp;
sum cellcnt sumadjwtp;
run;

proc freq data=sub_chk noprint;
tables prodadjs/missing list out=prodadjs;
run;

title3 "Univariate of Prodadjs = adj1 * adj2";
proc univariate data=prodadjs normal ;
var prodadjs;
run;

title3 "Univariate of Adjwtp (fnstatus=11)";
proc univariate data=out.adjwtp normal ;
where fnstatus=11;

```



```

var adjwt;
run;

title3 " Checking the individuals with the largest adjwt";
proc sort data=out.adjwtp out=sorted;
by descending adjwt;
run;

data sorted;
set sorted;
prodadjts=a1*a2;
run;

title3 "Proc Print: Checking the individuals with the largest adjwt (obs=200 descending)";
proc print data=sorted (obs=200);
var stratum pcell_a1 pcell_a2 BWT fnstatus a1 adj1 adjwt1 a2 adj2 adjwt prodadjts;
run;

data OUT.adjwtp;
set OUT.adjwtp;
drop a1 a2 ;
run;

*tnexreg;
proc sort data=out.adjwtp;
by tnexreg;
run;

title3 "Distribution of weights by tnexreg";
proc means data=out.adjwtp noprint ;
where fnstatus=11;
var adjwt;
by tnexreg;
output out=out_tnex(drop=_type_ _freq_) n=n mean=mean std=stddev min=min max=max ;
run;

proc print data=out_tnex;
sum n;
run;

title3 "Contents of OUT.adjwtp";
proc contents data=out.adjwtp;
run;

***** The End *****;

```

F.11.A Q4FY2010\PROGRAMS\WEIGHTING\NEWWEIGHTS\POSTWT.SAS - POSTSTRATIFY THE WEIGHTS - RUN QUARTERLY.

```
*****
*** Project: 2010 Health Care Survey of DoD Beneficiaries - Adult
*** Purpose: Do the poststratification
***
*** Program: L:\Q4FY2010\Programs\weighting\NewWeights\postwt.sas
*** Task : 6663-300
*** Inputs: framea.sas7bdat: the frame file
*** adjwtp.sas7bdat: weighted survey data
***
*** Outputs: postwt.sas7bdat: final weight data after poststratification
*** Written: 1) Haixia Xu on 12/27/2006
*** Note: 1)Do the poststratification to force weighted counts to population counts in
certain domain.
*** 2)H. Xu on 03/29/2007 for q3fy2007 weightitng
*** 3)Sabrina Rahman on 06/17/08 for q3fy2008 Adult Weighting
*** 4)Sabrina Rahman on 09/26/2008 for Q4FY2008 Adult Weighting
*** 4)Sabrina Rahman on 09/16/2009 for Q4FY2009 Adult Weighting
*****;
```

```
*** Set up options. ***;
options ls=132 ps=79 compress=no nocenter;* obs=10;* mprint mlogic symbolgen;
```

```
%let quarter = Q4FY2010;
```

```
Title1 "Program: postwt.sas (&quarter.)";
Title2 "Purpose: Do the poststratification";
```

```
*** Set up the input and output paths. ***;
libname in "L:\&quarter.\Data\AFinal"; /* adjwtp.sas7bdat */
libname inv6 "L:\&quarter.\Data\AFinal"; /* framea.sas7bdat */
libname out "L:\&quarter.\Data\AFinal"; /* postwt.sas7bdat */
```

```
%include "L:\Q4FY2010\Programs\Weighting\NewWeights\calpoststr.sas";
%include "L:\Q4FY2010\Programs\Weighting\NewWeights\design_effects_unequal_weights.sas";
```

```
***Sample***;
data framea;
set inv6.framea;
length postcell $5;
postcell=group||com_geo;
```

```
*****
*Collapse Postcell Groups:
*****;
/* Note: For 69004, we collapse this way as usual.
For Reporting Purpose, we need to combine 117 with 1350 (reason below):
```

From: Nancy Clusen
Sent: Thursday, November 13, 2008 12:46 PM
To: Eric Schone; Keith Rathbun
Cc: Amang Sukasih; Haixia Xu
Subject: FW: checking dmid=1350

Hello,
37th Medical Group Lackland Air Force Base DMIS ID 1350 first appears in the frame in Q2.
The facility type is Clinic, but it also is its own Parent facility.
As you can from Haixia email below, most of the beneficiaries enrolled to 1350 in Q2
were enrolled with the 59th Medical Wing-Lackland DMIS ID 117 in Q1.
Should we combine 117 and 1350 for the purposes of reporting?

```
From sampling:
if substr(stratumo,2,4) = '0117' then substr(stratum,2,4)='1350';
```

Q4FY2010:
Check the small cells or too small/large ratios - or (unwtcnt<15) or (ps < 0.75) or (ps > 2)

Obs	postcell	unwtcnt	wtcnt	popcnt	ps
1	09001	14	29957.73	32357	1.08009
4	09004	0	0.00	1877	.
18	10026	95	9844.29	6213	0.63113
115	11350	0	0.00	68	.

```

133      69004          3      21072.68      32073      1.52202
*/

/*collapse 9004s with the largest region for protection*/
if postcell='09004' then postcell='09003';
else if postcell='69004' then postcell='69002';
else if postcell='10117' then postcell='11350';

*****
*Construct Necessary Variables:
*****;
***facility TNEX region***;
length TNEX_grp $1;
if d_health in ('00', '13', '14', '15') then TNEX_grp='O';
else if d_health in ('17', '01', '05') then TNEX_grp='N';
else if d_health in ('18', '04') then TNEX_grp='S';
else if d_health in ('19', '08', '11') then TNEX_grp='W';
*Correct the TNEX regions for com_geo 0047, 9001, 9002, 9003, 9004:
All the cases in the same com_geo should be in the same TNEX region, which is the region of the
com_geo;
if COM_GEO = '0047' then TNEX_grp='S';
else if COM_GEO = '9001' then TNEX_grp='N';
else if COM_GEO = '9002' then TNEX_grp='S';
else if COM_GEO = '9003' then TNEX_grp='W';
else if COM_GEO = '9004' then TNEX_grp='O';

***CONUS region***;
length conus $1;
if TNEX_grp = 'O' then conus='0';
else if TNEX_grp in ('N', 'S', 'W') then conus='1';
run;

proc freq data=framea;
tables postcell*group*com_geo*stratum/missing list;
run;

proc sort data=framea;
by MPRID;
run;

proc sort data=in.adjwtp out=adjwt;
by MPRID;
run;

data adjwt;
merge adjwt(in=A) framea(in=B) ;
by MPRID;
if A and B;
run;

*****
*** Do the Poststratification
*****;
options compress=yes;
%calpoststr(smpldata=adjwt, frmedata=framea, domain=postcell, preadjwt=adjwt, psratio=ps,
postwt=postwt, outdata=OUT.postwt);

*****
*** Compare the weighted counts and the population counts by the domains
*****;
options compress=no;
%macro comparecnt(smpldata=, frmedata=, domain=, weight=);

proc freq data=&smpldata. NOPRINT;
tables &domain./missing list out=weight_s(rename=(count=wtcnt) drop=percent);
weight &weight.;
run;

proc freq data=&frmedata. NOPRINT;
tables &domain./missing list out=unweight_f(rename=(count=popcnt) drop=percent);
run;

data cnt_sf;
merge weight_s(in=A) unweight_f(in=B);

```

```

by &domain.;
if a and not b and popcnt=. then popcnt=0;
if b and not a and wtcnt=. then wtcnt=0;
diff = wtcnt - popcnt;
reldiff=diff/popcnt;
run;

proc print data=cnt_sf;
sum wtcnt popcnt diff;
run;

proc univariate data=cnt_sf;
var diff reldiff;
run;

%mend comparecnt;

title3 'Check to see if the poststratification is done correctly';
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=postcell, weight=postwt);
title3 'Compare the weighted count and the frame count by the different domains';
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=group, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=TNEX_grp, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=PCM, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=enbgsmpl, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=patcat, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=stratum, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=com_geo, weight=postwt);

title3 'Compare the weighted count and the frame count by TNEX_grp*PCM';
proc freq data=in.postwt NOPRINT;
tables TNEX_grp*PCM/missing list out=weight_s(rename=(count=wtcnt) drop=percent);
weight postwt;
run;

proc freq data=framea NOPRINT;
tables TNEX_grp*PCM/missing list out=unweight_f(rename=(count=popcnt) drop=percent);
run;

data cnt_sf;
merge weight_s(in=A) unweight_f(in=B);
by TNEX_grp PCM;
diff = wtcnt - popcnt;
if A and B;
run;

proc print data=cnt_sf;
sum wtcnt popcnt diff;
run;

proc univariate data=cnt_sf;
var diff;
run;

*****
*** Compare the weighted sum before and after the poststratification
*****;

%macro procmeans(weightvar=, classvar=);
proc means data=OUT.postwt noprint;
class &classvar.;
var &weightvar.;
output out=out sum=/autoname;
run;

data print;
set out;
where _type_=1;
run;

title3 "weighted info by &classvar. using &weightvar. as weight";
proc print data=print;
sum _freq_ bwt_sum adjwt1_sum adjwt2_sum adjwt_sum postwt_sum;
run;

```

```

%mend procmeans;

%procmeans(weightvar= bwt adjwt1 adjwt2 adjwt postwt, classvar=fnstatus);
**%procmeans(weightvar= bwt adjwt1 adjwt2 adjwt postwt, classvar=stratum);

*****
*** Output the datasets
*****;

options compress=yes;

data out.postwt;
set out.postwt(drop=adjwt );
label  ENBGSMPL ='ENBGSMPL - Beneficiary/Enrollment Status'
      PCM = 'Primary care Manager Code';
run;

*****
*** Calculate the Design Effects
*****;

**create dataset of completes only;
data postwt_fnl;
set out.postwt;
where fnstatus=11;
run;

%design_effects_unequal_weights ( postwt_fnl, postcell, postwt, deff_overall, deff_postcell );
%design_effects_unequal_weights ( postwt_fnl, com_geo, postwt, deff_overall, deff_cac );
%design_effects_unequal_weights ( postwt_fnl, enbgsmpl, postwt, deff_overall, deff_enb );
%design_effects_unequal_weights ( postwt_fnl, tnexreg, postwt, deff_overall, deff_tnexreg );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp, postwt, deff_overall, deff_tnexgrp );
%design_effects_unequal_weights ( postwt_fnl, conus, postwt, deff_overall, deff_conus );
%design_effects_unequal_weights ( postwt_fnl, servaff, postwt, deff_overall, deff_servaff );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp servaff, postwt, deff_overall,
deff_TNEXservaff );

title3 'Design Effects Overall';
proc print data = deff_overall;
run;

*** For postcell ***;
title3 "Design Effects for postcell";
proc print data= deff_postcell;
sum _freq_;
run;

*** For geographic Area ***;
title3 "Design Effects for com_geo";
proc print data= deff_cac;
sum _freq_;
run;

*** For ENBGSMPL Groups ***;
title3 'Design Effects for ENBGSMPL';
proc print data= deff_enb;
sum _freq_;
run;

*** For Beneficiary TNEX Region ***;
title3 'Design Effects for TNEXREG';
proc print data= deff_tnexreg;
sum _freq_;
run;

*** For Facility TNEX region ***;
title3 "Design Effects for Facility's TNEX region";
proc print data= deff_tnexgrp;
sum _freq_;
run;

*** For conus region ***;
title3 "Design Effects for conus";
proc print data= deff_conus;

```

```

sum _freq_;
run;

*** For Service Affiliation for the facility ***;
title3 "Design Effects for Facility's Service Affiliation";
proc print data= deff_servaff;
sum _freq_;
run;

*** For TNEX_grp*Servaff ***;
title3 "Design Effects for TNEX_grp by Servaff";
proc print data= deff_TNEXservaff;
sum _freq_;
run;

title3 "Contents of OUT.postwt";
proc contents data=OUT.postwt;
run;

***** The end *****;

/*
data test;
set out.postwt;
run;
proc freq data=test;
table postwt*stratum/list missing;
where stratum='3900107';
run;
proc freq data=test;
tables postwt/list missing;
run;

Title3 'Proc Means of Postwt: ';
Proc means data=out.postwt;
var Postwt;
run;
*/

```

F.11.B Q4FY2010\PROGRAMS\WEIGHTING\NEWWEIGHTS\CALPOSTSTR.SAS - INCLUDE FILE FOR POSTWT.SAS.

```

*****
* Macro to do the poststratification
*****;
%macro calpoststr(smpldata=, frmedata=, domain=, preadjwt=, psratio=, postwt=, outdata=);

proc freq data=&smpldata. NOPRINT;
where fnstatus in (11, 31, 32);
tables &domain./missing list out=unweight_s(rename=(count=unwtcnt) drop=percent);
run;

proc freq data=&smpldata. NOPRINT;
tables &domain./missing list out=weight_s(rename=(count=wtcnt) drop=percent);
weight &preadjw.;
run;

proc freq data=&frmedata. NOPRINT;
tables &domain./missing list out=unweight_f(rename=(count=popcnt) drop=percent);
run;

data cnt_sf out.only_f_calpoststr;
merge unweight_s(in=A) weight_s(in=B) unweight_f(in=C);
by &domain.;
  if unwtcnt=. then unwtcnt=0;
  if wtcnt=. then wtcnt=0;
  &psratio.=popcnt/wtcnt;
  label &psratio.="poststratification ratio";
  output cnt_sf;
/*
if A and B and C then do;
  &psratio.=popcnt/wtcnt;
  label &psratio.="poststratification ratio";
  output cnt_sf;
end;
else if C and NOT A then output out.only_f_calpoststr;
*/
run;

title3 "Check the calculation of poststratification ratio";
proc print data=cnt_sf;
sum unwtcnt wtcnt popcnt;
run;

title3 "Univariate of poststratification ratio";
proc univariate data=cnt_sf;
var &psratio.;
run;

title3 "Check the small cells or too small/large ratios - or (unwtcnt<15) or (&psratio. < 0.75)
or (&psratio. > 2)";
proc print data=cnt_sf;
where (&psratio. > 2) or (&psratio. < 0.75) or (unwtcnt <15);
run;

*Append cnt_sf back to the adjusted weight data;
proc sort data=&smpldata.;
by &domain.;
run;

data &outdata.;
merge &smpldata. cnt_sf;
by &domain.;
run;

data &outdata.;
set &outdata.;
if fnstatus in (11, 31, 32) then &psratio.=&psratio.;
else if fnstatus in (12, 20, 41, 42) then &psratio.=0;
&postwt. = &preadjw.*&psratio.;
run;

title3 "check the calculation of final weight";

```

```
proc print data=&outdata.(obs=200);  
var &domain. fnstatus &preadjwt. &psratio. &postwt.;  
run;  
  
title3 "Univariate of final weight";  
proc univariate data=&outdata.;  
var &postwt.;  
where fnstatus=11;  
run;  
%mend calpoststr;
```


F.12 Q4FY2010\PROGRAMS\WEIGHTING\NEWWEIGHTS\REPWTP.SAS - PRODUCE THE REPLICATE WEIGHTS - RUN QUARTERLY.

```

*****
* PROGRAM: Q4FY2010\Programs\Weighting\NewWeights\Repwtp.SAS
* TASK: 2010 DOD QUARTERLY HEALTH CARE SURVEY (6663-300)
* PURPOSE: CALCULATE REPLICATE WEIGHTS FOR DOD SURVEY USING THE NEW WEIGHTING METHOD.
* WRITTEN: 12/30/1999 BY Keith Ranthbun
* Modified By Haixia Xu on 12/27/2006
*
* INPUTS: Postwt.sas7bdat - Final Weights file
*         Framea.sas7bdat
*
* OUTPUTS: Repwtp.sas7bdat - Replicate Weights File
*
*****;

%let quarter = Q4FY2010;

LIBNAME INV6 "L:\&quarter.\Data\Afinal"; /* Framea.sas7bdat */
LIBNAME IN "L:\&quarter.\Data\Afinal"; /* Postwt.sas7bdat */
LIBNAME OUT "L:\&quarter.\Data\Afinal"; /* Repwtp.sas7bdat */

OPTIONS PS=79 LS=132 errors=10 COMPRESS=no NOCENTER formdlm='~' /*mlogic mprint symbolgen*/
obs=max;

%MACRO PROCESS(DOMAIN1,DOMAIN2,DOMAIN3,reps);

*****
* calculate the population counts to be used in the poststratification
*****;
data framea;
set inv6.framea;
length POSTCELL $5;
POSTCELL=group||com_geo;

/*collapse postcell groups*/ /*Q4Fy2010*/
/*collapse 9004s with the largest region for protection*/
if postcell='09004' then postcell='09003';
else if postcell='69004' then postcell='69002';
else if postcell='10117' then postcell='11350';
run;

proc freq data=framea NOPRINT;
tables &domain3./missing list out=framecnt(drop=percent rename=(count=popcnt));
run;

*****
* Sort the final weights file by user-specified domains
*****;
PROC SORT DATA=IN.postwt(KEEP=FNSTATUS MPRID BWT &DOMAIN1. &DOMAIN2. &domain3. stratum )
OUT=postwt;
BY stratum MPRID ;
RUN;

*****
* Append SUBSET index (I) to each observation
*****;
DATA SUBSETS;
SET postwt;
BY stratum MPRID;

IF _N_ = 1 OR MOD(_N_-1,&reps.) = 0 THEN SUBSET = 1;
ELSE SUBSET + 1;

RETAIN SUBSET;
BBWT = BWT * (&reps. / (&reps. - 1));
RUN;

*****
* Generate JackKnife/replicated weights adjwt01-adjwt60

```

```

*****
*****;
%DO I = 1 %TO &reps.;

DATA SUBSET;
  SET SUBSETS;
  IF &I. = SUBSET THEN DELETE; *Remove the current subset;
RUN;

*****
* Calculate adjustment factor A1 for each cell
*****;

proc sort data=subset;
by &domain1.;
run;

*****
* Calculate adjustment factor A1 for each cell.
* This is the Eligibility Determination adjustment.
*****;
DATA CELLSA1 (KEEP=SUMBBWT SUMG1-SUMG3 A1 CELLCNT cntg1-cntg3 &domain1. )
  MPRIDSA1 (KEEP=MPRID FNSTATUS BBWT &DOMAIN1. &DOMAIN2. &domain3. )
  ;
  SET subset;
  BY &DOMAIN1.;

if FNSTATUS in (11, 12, 20, 31, 41, 42) THEN DO;

  IF FIRST.&DOMAIN1. THEN DO;
    CELLCNT = 0;
    cntg1 = 0;
    cntg2 = 0;
    cntg3 = 0;
    SUMBBWT = 0.0;
    SUMG1 = 0.0;
    SUMG2 = 0.0;
    SUMG3 = 0.0;
    A1 = 0.0;
  END;
  CELLCNT + 1;

  *****
  * Accumulate total weight sum
  *****;

  SUMBBWT + BBWT;

  *****
  * Accumulate group 1 weight sum
  *****;

  IF FNSTATUS IN (11,12) THEN
    do;
      SUMG1 + BBWT;
      cntg1 + 1;
    end;

  *****
  * Accumulate group 2 weight sum
  *****;

  ELSE IF FNSTATUS in (20,31) THEN
    do;
      SUMG2 + BBWT;
      cntg2 + 1;
    end;

  *****
  * Accumulate group 3 weight sum
  *****;

  ELSE IF FNSTATUS in (41,42) THEN
    do;

```

```

        SUMG3 + BBWT;
        cntg3 + 1;
    end;

    RETAIN SUMBBWT SUMG1-SUMG3 A1 CELLCNT cntg1-cntg3 MPRID;

    IF LAST.&DOMAIN1. THEN DO;
        A1 = (SUMG1 + SUMG2 + SUMG3)/(SUMG1 + SUMG2);
        OUTPUT CELLSA1;
    END;
END;

    OUTPUT MPRIDSA1;
RUN;

proc sort data=mpridsal;
by &domain1.;
run;

proc sort data=cellsal;
by &domain1.;
run;

data adj_one;
merge mpridsal cellsal;
by &domain1.;
if fnstatus in (11,12,20,31) then adj1 = a1;
else if fnstatus = 32 then adj1=1;
else adj1 = 0;
adj_wt1 = adj1 * bbwt;
run;

*****
* Calculate adjustment factor A2 for each cell.
* This is the Nonresponse adjustment and creates the final weight (adjwt).
*****;

proc sort data=adj_one;
by &domain2.;
run;

DATA CELLSA2 (KEEP= &domain2. NUMER DENOM numercnt denomcnt A2);
set adj_one;
BY &domain2.;

IF FNSTATUS in (11, 12, 20) THEN DO;

    IF FIRST.&domain2. THEN DO;
        A2 = 0.0;
        NUMER = 0.0;
        DENOM = 0.0;
        numercnt = 0;
        denomcnt = 0;
    END;

    RETAIN NUMER DENOM A2 numercnt denomcnt;

    IF FNSTATUS IN (11,12,20) THEN
        do;
            NUMER + adj_wt1;
            numercnt + 1;
        end;

    IF FNSTATUS = 11 THEN
        do;
            DENOM + adj_wt1;
            denomcnt + 1;
        end;

    IF LAST.&domain2. THEN DO;
        A2 = NUMER/DENOM;
        OUTPUT CELLSA2;
    END;

```

```

END;

RUN;

proc sort data=adj_one;
by &domain2.;
run;

proc sort data=cellsa2;
by &domain2.;
run;

data adj_two;
merge adj_one cellsa2;
by &domain2.;
if fnstatus = 11 then adj2 = a2;
  else if fnstatus in (31, 32) then adj2 = 1;
  else adj2 = 0;
adj_wt2 = adj2 * adj_wt1;
KEEP MPRID FNSTATUS adj_wt2 bbwt &DOMAIN1. &DOMAIN2. &domain3.;
run;

*****
* Calculate poststratification adjustment factor ps for each cell.
*****;
proc freq data=adj_two NOPRINT;
tables &domain3./missing list out=weighted(drop=percent rename=(count=wtcnt));
weight adj_wt2;
run;

proc sort data=framecnt;
by &domain3.;
run;

proc sort data=weighted;
by &domain3.;
run;

data ps;
merge framecnt(in=A) weighted(in=B);
by &domain3.;
ps = popcnt/wtcnt;
if A and B;
run;

proc sort data=ps;
by &domain3.;
run;

proc sort data=adj_two;
by &domain3.;
run;

data subset&i.;
merge adj_two ps;
by &domain3.;
jkweight = ps * adj_wt2;
subset = &i.;
KEEP MPRID subset jkweight;
run;

proc sort data=subset&i.;
by mprid;
run;

*****
*****
* End of JackKnife/replicated weights WRWT01-WRWT60 assignments
*****
*****;
%END;

*****
* Combine all of the JackKnife weight subsets by MPRID

```

```

*****;
DATA ALLSETS;
  SET SUBSET1  SUBSET2  SUBSET3  SUBSET4  SUBSET5
    SUBSET6  SUBSET7  SUBSET8  SUBSET9  SUBSET10
    SUBSET11  SUBSET12  SUBSET13  SUBSET14  SUBSET15
    SUBSET16  SUBSET17  SUBSET18  SUBSET19  SUBSET20
    SUBSET21  SUBSET22  SUBSET23  SUBSET24  SUBSET25
    SUBSET26  SUBSET27  SUBSET28  SUBSET29  SUBSET30
    SUBSET31  SUBSET32  SUBSET33  SUBSET34  SUBSET35
    SUBSET36  SUBSET37  SUBSET38  SUBSET39  SUBSET40
    SUBSET41  SUBSET42  SUBSET43  SUBSET44  SUBSET45
    SUBSET46  SUBSET47  SUBSET48  SUBSET49  SUBSET50
    SUBSET51  SUBSET52  SUBSET53  SUBSET54  SUBSET55
    SUBSET56  SUBSET57  SUBSET58  SUBSET59  SUBSET60
  ;
  BY MPRID;
  ARRAY JKWT(&reps.) wrwt1-wrwt&reps.; RETAIN wrwt1-wrwt&reps.;
  IF FIRST.MPRID THEN DO;
    DO I = 1 TO &reps.; DROP I;
      JKWT(I) = . ;
    END;
  END;
  JKWT(SUBSET) = JKWEIGHT;
  IF LAST.MPRID THEN OUTPUT;
  KEEP MPRID SUBSET wrwt1-wrwt&reps.;
RUN;

```

```

*****
* Sort the original data, get the final weight (WRWT), append the
* JackKnife/Replicated weights (WRWT1-WRWT60), and label variables.
*****;

```

```

PROC SORT DATA=IN.postwt OUT=postwt;
BY MPRID;
RUN;

```

```

proc sort data=allsets;
by mprid;
run;

```

```

options compress=yes;

```

```

DATA OUT.repwt ;
MERGE postwt ALLSETS;
BY MPRID;

```

```

LABEL
  MPRID = 'MPR ID Number'
  WRWT1 = 'Replicated/JackKnife Weight 1'
  WRWT2 = 'Replicated/JackKnife Weight 2'
  WRWT3 = 'Replicated/JackKnife Weight 3'
  WRWT4 = 'Replicated/JackKnife Weight 4'
  WRWT5 = 'Replicated/JackKnife Weight 5'
  WRWT6 = 'Replicated/JackKnife Weight 6'
  WRWT7 = 'Replicated/JackKnife Weight 7'
  WRWT8 = 'Replicated/JackKnife Weight 8'
  WRWT9 = 'Replicated/JackKnife Weight 9'
  WRWT10 = 'Replicated/JackKnife Weight 10'
  WRWT11 = 'Replicated/JackKnife Weight 11'
  WRWT12 = 'Replicated/JackKnife Weight 12'
  WRWT13 = 'Replicated/JackKnife Weight 13'
  WRWT14 = 'Replicated/JackKnife Weight 14'
  WRWT15 = 'Replicated/JackKnife Weight 15'
  WRWT16 = 'Replicated/JackKnife Weight 16'
  WRWT17 = 'Replicated/JackKnife Weight 17'
  WRWT18 = 'Replicated/JackKnife Weight 18'
  WRWT19 = 'Replicated/JackKnife Weight 19'
  WRWT20 = 'Replicated/JackKnife Weight 20'
  WRWT21 = 'Replicated/JackKnife Weight 21'
  WRWT22 = 'Replicated/JackKnife Weight 22'
  WRWT23 = 'Replicated/JackKnife Weight 23'
  WRWT24 = 'Replicated/JackKnife Weight 24'
  WRWT25 = 'Replicated/JackKnife Weight 25'
  WRWT26 = 'Replicated/JackKnife Weight 26'

```

```

WRWT27 = 'Replicated/JackKnife Weight 27'
WRWT28 = 'Replicated/JackKnife Weight 28'
WRWT29 = 'Replicated/JackKnife Weight 29'
WRWT30 = 'Replicated/JackKnife Weight 30'
WRWT31 = 'Replicated/JackKnife Weight 31'
WRWT32 = 'Replicated/JackKnife Weight 32'
WRWT33 = 'Replicated/JackKnife Weight 33'
WRWT34 = 'Replicated/JackKnife Weight 34'
WRWT35 = 'Replicated/JackKnife Weight 35'
WRWT36 = 'Replicated/JackKnife Weight 36'
WRWT37 = 'Replicated/JackKnife Weight 37'
WRWT38 = 'Replicated/JackKnife Weight 38'
WRWT39 = 'Replicated/JackKnife Weight 39'
WRWT40 = 'Replicated/JackKnife Weight 40'
WRWT41 = 'Replicated/JackKnife Weight 41'
WRWT42 = 'Replicated/JackKnife Weight 42'
WRWT43 = 'Replicated/JackKnife Weight 43'
WRWT44 = 'Replicated/JackKnife Weight 44'
WRWT45 = 'Replicated/JackKnife Weight 45'
WRWT46 = 'Replicated/JackKnife Weight 46'
WRWT47 = 'Replicated/JackKnife Weight 47'
WRWT48 = 'Replicated/JackKnife Weight 48'
WRWT49 = 'Replicated/JackKnife Weight 49'
WRWT50 = 'Replicated/JackKnife Weight 50'
WRWT51 = 'Replicated/JackKnife Weight 51'
WRWT52 = 'Replicated/JackKnife Weight 52'
WRWT53 = 'Replicated/JackKnife Weight 53'
WRWT54 = 'Replicated/JackKnife Weight 54'
WRWT55 = 'Replicated/JackKnife Weight 55'
WRWT56 = 'Replicated/JackKnife Weight 56'
WRWT57 = 'Replicated/JackKnife Weight 57'
WRWT58 = 'Replicated/JackKnife Weight 58'
WRWT59 = 'Replicated/JackKnife Weight 59'
WRWT60 = 'Replicated/JackKnife Weight 60'
;
RUN;

TITLE1 "2010 DoD Quarterly Health Survey Final/Replicated Weights";
title2 "Checks for the Replicate Weights";
TITLE3 "Program Name: repwtp.SAS (&quarter.)";

*****
Check the structure of the data set OUT.repwtp;
*****;

proc sort data=OUT.repwtp out=sorted;
by stratum mprid;
run;

Title4 "Proc Print of Data=Repwtp (obs=500)";
proc print data=sorted (obs=500);
var stratum mprid SUBSET fnstatus postwt wrwt1-wrwt5;
run;

PROC MEANS DATA=OUT.repwtp n sum;
VAR postwt WRWT1-WRWT&reps.;
RUN;

PROC SORT DATA=OUT.repwtp out=repwtp;
BY MPRID;
RUN;

DATA OUT.repwtp;
SET repwtp;
BY MPRID;

ARRAY WGTS(&reps.) WRWT1-WRWT&reps.;
DO I = 1 TO &reps.; DROP I;
IF WGTS(I) EQ . THEN WGTS(I) = 0;
END;

KEEP MPRID BWT postwt WRWT1-WRWT&reps. fnstatus &domain1. &domain2. &domain3. com_geo;
RUN;

```

```

title4 "Check the replicate weights -- for all 51,000 cases";
PROC MEANS DATA=OUT.repwtp n sum;
VAR postwt wrwt1-wrwt&reps.;
output out=sums sum(postwt wrwt1-wrwt&reps.) = postwt wrwt1-wrwt&reps.;
RUN;

proc transpose data=sums out=t_sums;
var postwt wrwt1-wrwt&reps.;
run;

proc univariate data=t_sums normal ;
var coll;
run;

title4 "Check the replicate weights -- for the final completes";
PROC MEANS DATA=OUT.repwtp n sum;
where fnstatus=11;
VAR postwt wrwt1-wrwt&reps.;
output out=sums sum(postwt wrwt1-wrwt&reps.) = postwt wrwt1-wrwt&reps.;
RUN;

proc transpose data=sums out=t_sums;
var postwt wrwt1-wrwt&reps.;
run;

proc univariate data=t_sums normal ;
var coll;
run;

**added for Amang q4 2002;
data repwt2;
  set out.repwtp;
  where fnstatus = 11;
  array subset2(60) wrwt1-wrwt60;
  do m=1 to 60;
    if subset2(m)=0 then
      subset=m;
  end;
run;

proc sort data = repwt2;
by subset;
run;

proc means data = repwt2 noprint;
by subset;
var postwt wrwt1-wrwt60;
output out = amang sum= / autoname;
run;

***added by Haixia on 05/11/2005 for q1, 2005 weighting.
rename wrwt1_sum, ..., wrwt60_sum as sum_wrwt1, ..., sum_wrwt60
so the numbered range list sum_wrwt1 - sum_wrwt60 can be used in the proc print below;

data amang;
set amang;
rename postwt_sum = sum_postwt;
%do i =1 %to 60;
rename wrwt&i._sum = sum_wrwt&i.;
%end;
run;

proc print data = amang;
sum_freq sum_postwt sum_wrwt1 - sum_wrwt60;
run;

*****
* CREATE FINAL REPWT DATASET FOR KEITH -- Rename the variables
*****;
data out.repwtp (drop = postwt com_geo);
set in.repwtp;
FWRWT = postwt;
%do i =1 %to 60;

```

```
rename wrwt&i.= FWRWT&i.;
%end;
label &domain1. = 'Weighting cell in the unknown eligibility adjustment';
label &domain2. = 'Weighting cell in the nonresponse adjustment';
label &domain3. = "ps cell for new wts - for all 4 quarters";
label fwrwt = "Final NEW Weight";
run;

data out.repwtp;
set out.repwtp;
* Label wts;
  %DO I = 1 %TO 60;
    LABEL    FWRWT&I. = "Replicated/JackKnife NEW Weight &I.";
  %END;
run;

PROC CONTENTS DATA=OUT.repwtp;
run;

%MEND process;

%PROCESS(pcell_a1, pcell_a2, postcell, 60);
```


F.13 Q4FY2010\PROGRAMS\WEIGHTING\ADDWGTSAS.SAS - MERGE THE FINAL QUARTERLY WEIGHTS WITH THE FINAL QUESTIONNAIRE/SAMPLE FILE - RUN QUARTERLY.

```

*****
*
* PROGRAM:  ADDWGTSAS.SAS
* TASK:    DOD HEALTH CARE SURVEY ANALYSIS (6401-903)
* PURPOSE: MERGE THE FINAL WEIGHTS FILE WITH THE FINAL
*          QUESTIONNAIRE/SAMPLE FILE
*
* WRITTEN: 02/02/2001 BY KEITH RATHBUN
*
* INPUTS:  1) REPWTP.sas7bdat - Final/Replicated Weights file - FORM A
*          2) MERGEQ.sas7bdat - Final FORM A Questionnaire/Sample File
*
* OUTPUTS: 1) HCSyyq_n.sas7bdat - Final FORM A Questionnaire/Sample File
*          combined with Final/Replicated Weights file - FORM A
*          where yy = Year
*                q = Quarter Number
*                n = Final Dataset Suffix/Version Number
*          2) HCSyyq_v.XPT - Final Public-Use Adult SAS XPORT Dataset
*
* MODIFIED: 1) 4/23/2002 - DKB added DROP statement to drop the permanent
*          random number variable (PRN) that does not need to be on the
*          final data file sent to DoD
*          2) 4/17/2003 - JA added length statement to order variables from
*          weight file. The variable TREATU_R is positioned after the
*          replicate weights.
*          3) 2/17/2005 - JA dropped CACSMPL from repwt because it has been
*          added to mergeq.sd2 in the mergeq.sas program. This is because
*          in Q4, CACSMPL had to be updated for reporting purposes.
*          4) 5/13/2005 - JA kept only necessary variables from the weight
*          weight file.
*          5) 12/27/2005 - JA merged new/adjusted weights and old weights
*          6) 5/22/2006 - JA added xcatch to the dataset
*          7) 1/17/2008 - Keith Rathbun added creation of DTA, SAV and
*          XPT versions of the final dataset.
*          8) 2/9/2010 - JA added creation of private use file
*          9) 10/12/2010 - MER drop ENRID from public-use data set
*          10) 11/16/2010 - MER add MSA_ID to private-use file
*
*****;
* Define global parameters.
*****;
%LET DSN1 = HCS104_1; * Public-Use data set;
%LET DSN2 = HCS104_2; * Private-Use data set;
%LET DSNw = REPWTP; * Final and replicate weight file;
%LET QTR = Q4FY2010; * Current Quarters data folder name;

*****
* Define libraries and options.
*****;
LIBNAME IN1    "..\..\DATA\AFINAL";
LIBNAME IN2    "K:\QTR"; * Location of restricted-use sample file;
LIBNAME OUT    "..\..\DATA\AFINAL";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER MPRINT MLOGIC;

*****
* Merge the final weights file with the final Questionnaire/Sample file
*****;
PROC SORT DATA=IN1.&DSNw  OUT=&DSNw; BY MPRID; RUN;
PROC SORT DATA=IN1.MERGEQ  OUT=MERGEQ; BY MPRID; RUN;

PROC CONTENTS DATA=IN1.&DSNw; Title 'repwtp- New weights'; RUN;
PROC CONTENTS DATA=IN1.MERGEQ; Title 'mergeq'; RUN;

*****
* Create and attach XCATCH (Catchment Reporting variable) to final dataset.
* Note that dataset TMPXCTCH with XCATCH is created by this include file.
*****;
DATA TEMPL;

```

```

SET MERGEQ;
IF FNSTATUS = 11;
RUN;

%INCLUDE "XCATCH.INC"; * Requires input dataset called TEMP1;

PROC SORT DATA=TMPXCTCH; BY MPRID; RUN;

DATA OUT.&DSN1(DROP=PRN      DMIS_ID  D_PAR   ENRID
              CACSMPL  SERVAREA  DCATCH  MSM
              D_FAC    DAGEQY    FIELDAGE PNLCATCD
              DMEDELG  MEDTYPE   MBRRELCD MRTLSTAT)
  T_&DSN2(DROP=PRN DMIS_ID  D_PAR )
  ;
MERGE MERGEQ(IN=IN2 DROP=MIQCNTL COM_GEO)
      TMPXCTCH(IN=IN3)
      &DSNw(IN=IN1 KEEP=MPRID POSTCELL FWRWT FWRWT1--FWRWT60
            RENAME=(fwrwt=FWRWT postcell=POSTCELL
                    fwrwt1=FWRWT1   fwrwt2=FWRWT2   fwrwt3=FWRWT3   fwrwt4=FWRWT4
                    fwrwt5=FWRWT5   fwrwt6=FWRWT6   fwrwt7=FWRWT7   fwrwt8=FWRWT8   fwrwt9=FWRWT9
                    fwrwt10=FWRWT10  fwrwt11=FWRWT11 fwrwt12=FWRWT12 fwrwt13=FWRWT13 fwrwt14=FWRWT14
                    fwrwt15=FWRWT15  fwrwt16=FWRWT16 fwrwt17=FWRWT17 fwrwt18=FWRWT18 fwrwt19=FWRWT19
                    fwrwt20=FWRWT20  fwrwt21=FWRWT21 fwrwt22=FWRWT22 fwrwt23=FWRWT23 fwrwt24=FWRWT24
                    fwrwt25=FWRWT25  fwrwt26=FWRWT26 fwrwt27=FWRWT27 fwrwt28=FWRWT28 fwrwt29=FWRWT29
                    fwrwt30=FWRWT30  fwrwt31=FWRWT31 fwrwt32=FWRWT32 fwrwt33=FWRWT33 fwrwt34=FWRWT34
                    fwrwt35=FWRWT35  fwrwt36=FWRWT36 fwrwt37=FWRWT37 fwrwt38=FWRWT38 fwrwt39=FWRWT39
                    fwrwt40=FWRWT40  fwrwt41=FWRWT41 fwrwt42=FWRWT42 fwrwt43=FWRWT43 fwrwt44=FWRWT44
                    fwrwt45=FWRWT45  fwrwt46=FWRWT46 fwrwt47=FWRWT47 fwrwt48=FWRWT48 fwrwt49=FWRWT49
                    fwrwt50=FWRWT50  fwrwt51=FWRWT51 fwrwt52=FWRWT52 fwrwt53=FWRWT53 fwrwt54=FWRWT54
                    fwrwt55=FWRWT55  fwrwt56=FWRWT56 fwrwt57=FWRWT57 fwrwt58=FWRWT58 fwrwt59=FWRWT59
                    fwrwt60=FWRWT60
                    ));
BY MPRID;
IF FNSTATUS = 11;

IF XCATCH = 1350 THEN XCATCH = 117; /* MER 11/14/08 Map new Lackland catchment
                                     area to old one */

IF NOT (IN1 AND IN2)
THEN PUT "ERROR: NO MATCHING MPRID WITH MERGEQ..sas7bdat AND &DSNw..sas7bdat";

IF IN1 AND IN2 AND IN3;
RUN;

*****
* Extract private-use variables from quarterly sample file.
*****;
DATA SAMPLA02;
SET IN2.SAMPLA02
  (KEEP=MPRID MASTCD MAPRZIP MAPRZIPX PNBRTHTD PGCD RANKCD MSA_ID);
RUN;
PROC SORT DATA=SAMPLA02; BY MPRID; RUN;

*****
* Append private-use variables to the public-use file.
*****;
DATA OUT.&DSN2;
MERGE T_&DSN2(IN=IN1) SAMPLA02(IN=IN2);
BY MPRID;
IF IN1 AND IN2; *KEEP only eligible respondents;
RUN;

```

```

TITLE1 "DOD Quarterly Health Care Survey (6663-300)";
TITLE2 "Program Name: ADDWGTSA.SAS";
TITLE3 "Program Inputs: Mergeq.sas7bdat -- &DSNw..sas7bdat";
TITLE4 "Program Outputs: &DSN1..sas7bdat/XPT";
PROC CONTENTS DATA=OUT.&DSN1; RUN;

*****
* Output the restricted use CONTENTS text file for delivery with the
* database CD.
*****;
PROC PRINTTO PRINT="&DSN2..TXT" NEW; RUN;
OPTIONS PAGENO=1;
TITLE4 "Program Outputs: &DSN2..sas7bdat/XPT";
PROC CONTENTS DATA=OUT.&DSN2; RUN;

*****
* Define and generate SAS Transport file.
*****;
LIBNAME XFILE1 XPORT "..\..\data\afinal\&DSN1..XPT";
PROC COPY IN=OUT OUT=XFILE1; * Converts input file to transport file;
      SELECT &DSN1;          * Selects sas7bdat file to copy;
RUN;

LIBNAME XFILE2 XPORT "..\..\data\afinal\&DSN2..XPT";
PROC COPY IN=OUT OUT=XFILE2; * Converts input file to transport file;
      SELECT &DSN2;          * Selects sas7bdat file to copy;
RUN;

*****
* END IT HERE
* Note that SPSS and STATA exports are not being created here because
* proc export does not support the library/formatted file option needed
* for delivery. The code below is kept just in case this option is
* supported at a later time.
*****;
ENDSAS;
*****
* Generate Dataset in STATA format.
*****;
PROC EXPORT
  DATA = OUT.&DSN1
  OUTFILE = "..\..\DATA\AFINAL\&DSN1..DTA"
  DBMS = DTA
  REPLACE;
RUN;

PROC EXPORT
  DATA = OUT.&DSN2
  OUTFILE = "..\..\DATA\AFINAL\&DSN2..DTA"
  DBMS = DTA
  REPLACE;
RUN;

*****
* Generate Dataset in SPSS format.
*****;
PROC EXPORT
  DATA = OUT.&DSN1
  OUTFILE = "..\..\DATA\AFINAL\&DSN1..SAV"
  DBMS = SAV
  REPLACE;
RUN;

PROC EXPORT
  DATA = OUT.&DSN2
  OUTFILE = "..\..\DATA\AFINAL\&DSN2..SAV"
  DBMS = SAV
  REPLACE;
RUN;

```

F.14 WEIGHTING\COMB2010.SAS - COMBINE QUARTERLY DATASETS INTO ONE ANNUAL FILE - ANNUAL.

```

*****
*
* PROGRAM: COMB2010.SAS
* TASK: ANNUAL DOD HEALTH CARE SURVEY ANALYSIS (6244-300)
* PURPOSE: Combine quarterly datasets into one annual file.
*
* WRITTEN: 12/23/2002 BY KEITH RATHBUN.
*
* INPUTS: 1) HCSyyq_2.sas7bdat - Q1-Q4 DOD HCS Analysis files
*          Where yy = Year (09)
*          q = Quarter Number (1-4)
*
* MODIFIED: 1) September 17, 2009 by Emma Ernst for 2009 database
*           2) October 12, 2010 by Mike Rudacille for 2010 database
*           Switched from HCSyyq_1 to HCSyyq_2, as some of the necessary variables
*           are now only available in the restricted use dataset
*
* OUTPUT: 1) COMB2010.sas7bdat - Combined quarterly datasets in one annual file
*
* NOTES: 1) The output dataset produced by this program contains all
*          of the original quarterly responses plus additional
*          responses that "trickled" in after the end of the
*          fielding period. The variable called QUARTER can be used
*          to identify which version of the quarterly survey is
*          applicable to the respondent.
*
* INCLUDES: 1) XCATCH.INC - Create catchment reporting variable
*
*****
* Assign data libraries and options
*****;
LIBNAME INQ1 "..\..\..\Q1FY2010t\DATA\AFINAL";
LIBNAME INQ2 "..\..\..\Q2FY2010t\DATA\AFINAL";
LIBNAME INQ3 "..\..\..\Q3FY2010t\DATA\AFINAL";
LIBNAME INQ4 "..\..\..\Q4FY2010\DATA\AFINAL";
LIBNAME OUT "..\..\DATA";
LIBNAME LIBRARY "..\..\Data\fmtlib";
OPTIONS COMPRESS=YES LS=132 PS=79 NOCENTER NOFMterr;

*****
* Extract variable names for each quarter for overlap checking purposes.
*****;
PROC CONTENTS DATA=INQ1.HCS101_2 OUT=Q1(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;

PROC CONTENTS DATA=INQ2.HCS102_2 OUT=Q2(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;

PROC CONTENTS DATA=INQ3.HCS103_2 OUT=Q3(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;

PROC CONTENTS DATA=INQ4.HCS104_2 OUT=Q4(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;

DATA VARIABLES;
MERGE Q1(IN=INQ1) Q2(IN=INQ2) Q3(IN=INQ3) Q4(IN=INQ4);
BY NAME;
LENGTH Q1-Q4 $3;
IF INQ1 THEN Q1 = "YES"; ELSE Q1 = "NO";
IF INQ2 THEN Q2 = "YES"; ELSE Q2 = "NO";
IF INQ3 THEN Q3 = "YES"; ELSE Q3 = "NO";
IF INQ4 THEN Q4 = "YES"; ELSE Q4 = "NO";
RUN;

TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: COMB2010.SAS By Keith Rathbun";
TITLE3 "Program Inputs: HCSyyq_2.sas7bdat - Q1-Q4 DOD HCS Sample and Analysis files";
TITLE4 "Program Output: COMB2010.sas7bdat - Combined quarterly datasets in one annual file";

*****
* Print summary of variable name quarterly overlap.

```

```

*****;
PROC PRINT; RUN;

*****
* Combine quarterly datasets with all of the "trickle" data into one file.
*****;
DATA COMB2010(DROP= XCATCH /* Xcatch will be recreated based on annual counts */);
  SET INQ1.HCS101_2
      INQ2.HCS102_2
      INQ3.HCS103_2
      INQ4.HCS104_2;
  BY MPRID;
  LABEL FIELDAGE = "Age at start of fielding period"
      DAGEQY = "Age at time of data collection"
      ;
RUN;

*****
* Sort by MPRID and check for duplicates. There should not be duplicates.
*****;
PROC SORT DATA=COMB2010 NODUPKEY OUT=TEMP1; BY MPRID; RUN;

*****
* Create and attach XCATCH (Catchment Reporting variable) to final dataset.
* Note that dataset TEMP with XCATCH is created by this include file.
*****;
%INCLUDE "XCATCH.INC"; * Requires input dataset called TEMP1;
PROC SORT DATA=TMPXCTCH; BY MPRID; RUN;

DATA OUT.COMB2010
  HCS101_2x(KEEP=MPRID XCATCH) HCS102_2x(KEEP=MPRID XCATCH)
  HCS103_2x(KEEP=MPRID XCATCH) HCS104_2x(KEEP=MPRID XCATCH) ;

  MERGE TEMP1(IN=IN1) TMPXCTCH(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2 THEN DO;
    IF XCATCH = 1350 THEN XCATCH = 117; /* MER 11/15/08 Map new Lackland catchment
                                         area to old one */
    OUTPUT OUT.COMB2010;
    IF QUARTER="Q1FY2010" THEN OUTPUT HCS101_2x;
    IF QUARTER="Q2FY2010" THEN OUTPUT HCS102_2x;
    IF QUARTER="Q3FY2010" THEN OUTPUT HCS103_2x;
    IF QUARTER="Q4FY2010" THEN OUTPUT HCS104_2x;
  END;
RUN;

DATA INQ1.HCS101_2;
  UPDATE INQ1.HCS101_2 HCS101_2x;
  BY MPRID;
RUN;

DATA INQ2.HCS102_2;
  UPDATE INQ2.HCS102_2 HCS102_2x;
  BY MPRID;
RUN;

DATA INQ3.HCS103_2;
  UPDATE INQ3.HCS103_2 HCS103_2x;
  BY MPRID;
RUN;

DATA INQ4.HCS104_2;
  UPDATE INQ4.HCS104_2 HCS104_2x;
  BY MPRID;
RUN;

PROC CONTENTS; RUN;

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F.15 WEIGHTING\ADDWGT.SAS - MERGE THE COMBINED ANNUAL WEIGHTS WITH THE FINAL QUESTIONNAIRE/SAMPLE FILE - ANNUAL.

```

*****
*
* PROGRAM:  ADDWGT.SAS
* TASK:    DOD HEALTH CARE SURVEY ANALYSIS (6244-300)
* PURPOSE: MERGE THE FINAL WEIGHTS FILE WITH THE FINAL
*          QUESTIONNAIRE/SAMPLE FILE
*
* WRITTEN: 02/02/2001 BY KEITH RATHBUN
*
* MODIFIED: 1) 01/15/2002 BY KEITH RATHBUN: Updated to combine all quarterly
*            datasets including trickles with the annual weights file.
*            2) 12/30/2002 BY KEITH RATHBUN: Updated for 2002 survey.
*            3) 01/20/2004 BY LUCY LU: Updated for 2003 survey.
*            4) 02/10/2004 BY KEITH RATHBUN: Added catchment reporting variable
*            (XCATCH) constructed in STEP1Q.
*            5) 03/03/05 BY LUCY LU: Updateed for 2004 annual survey.
*            -- Create macro variables and eliminate macro program,
*            -- update the length statement for year 2004.
*            6) 01/04/2006 BY KEITH RATHBUN: Updated for 2005 survey.
*            7) 09/18/2007 BY LUCY LU: Updated for 2007 survey.
*            8) 09/17/2009 BY Emma Ernst: Updated for 2009 survey.
*            9) 10/13/2010 BY MIKE RUDACILLE: Updated for 2010 survey.
*            Modified to produce both public and private use datasets.
*
* INPUTS:  1) CREPWT.sas7bdat - Final/Replicated Weights file - FORM A
*            2) COMB2010.sas7bdat - Combined Q1-Q4 FORM A Questionnaire/Sample File
*
* OUTPUTS: 1) HCSyyA_n.SD2 - Final FORM A Questionnaire/Sample File
*            combined with Final/Replicated Weights file - FORM A
*            where yy = Year
*                   A = Form A - Annual
*                   n = Final Dataset Suffix/Version Number
*            2) HCSyyA_n.XPT - Final Adult SAS XPORT Dataset
*            where yy = Year
*                   A = Form A - Annual
*                   n = Final Dataset Suffix/Version Number
*
* NOTES:   1) This program combines all of the quarterly input datasets
*            including trickles with the annual weights file.
*
*****;
LIBNAME OUT      "..\..\DATA";
LIBNAME LIBRARY "..\..\Data\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER NOFMterr;

%LET DSNI_1 = CREPWT;
%LET DSNI_2 = COMB2010;
%LET DSNO_1 = HCS10A_1;
%LET DSNO_2 = HCS10A_2;

*****
* Merge the final weights file with the final Questionnaire/Sample file
*****;
PROC SORT DATA=OUT.&DSNI_1 OUT=&DSNI_1; WHERE FNSTATUS EQ 11; BY MPRID; RUN;
PROC SORT DATA=OUT.&DSNI_2 OUT=&DSNI_2; BY MPRID; RUN;

DATA &DSNO_2(DROP= DRP_RND1 /* jma Oct 24 2008 */
);

MERGE &DSNI_2(IN=IN2 )
      &DSNI_1(IN=IN1 KEEP=MPRID CFWT CFWT1-CFWT240);
BY MPRID;

IF FNSTATUS = 11;
IF IN1 AND IN2;
IF NOT (IN1 AND IN2) THEN PUT "ERROR: NO MATCHING MPRID WITH &DSNI_1..sas7bdat AND
&DSNI_2..sas7bdat";

```

```

FORMAT CACSMPL CAC. WEB WEB.
  /*TRICKDUP $trckdup. */
N1 N2 N3 N4 N5 N5A1 N5A2 N5A3
N6 N6_Q3 N6A1 N7 N8 N8A1 N8B1
N9 N10 N10_Q3 N10A1 N10B1 N10B2 N10B3 N10B4 N10B5 N10B6 N10B7
N11 N11B N12 N13 N14 N15
N16 N16A1 N16A2 N16B1 N16B2 N16B3 N16B4 N16C1 N16C2 N16C3 N16C4
N17 N18 N19A N19B N20 N21 N21A1 N22 N23 N24

```

notes.

XBMI xbmi.;

LABEL CFWT='Combined Annual NEW Weight';

RUN;

DATA OUT.&DSNO_2 ;

```

*****
* Reorder file for documentation purposes.
*****;

```

LENGTH

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MPRID          $ 8          /* ID                */
SVCSMPL        8          /* sampling variable */
SEXSMPL        8          /* sampling variable */
STRATUM        $ 7          /* sampling variable */
CACSMPL        8          /* sampling variable */
ENBGSMPL       $ 2          /* sampling variable */
MPCSMPL        8          /* sampling variable */
NHFF           8          /* sampling variable */
SERVAREA       $ 2          /* sampling variable */

/* PRN          8 */      /* sampling variable */
DCATCH         $ 4          /* sampling variable */
ENRID          $ 4          /* sampling variable */
/* DMIS_ID      $ 9 */      /* sampling variable */
MSM            $ 2          /* sampling variable */
D_FAC          $ 9          /* sampling variable */
/* D_PAR        $ 4 */      /* sampling variable */
D_HEALTH       $ 2          /* sampling variable */
TNEXREG        $ 1          /* sampling variable */

PNBRTHDT       $ 8          /* sampling variable */
PGCD           $ 2          /* sampling variable */
MASTCD         $ 2          /* sampling variable */
MAPRZIP        $ 5          /* sampling variable */
MAPRZIPX       $ 4          /* sampling variable */
RANKCD         $ 6          /* sampling variable */

SERVAFF        $ 1          /* DEERS variable   */
MRTLSTAT       $ 1          /* DEERS variable   */
RACEETHN       $ 1          /* DEERS variable   */
PNSEXCD        $ 1          /* DEERS variable   */
/* LEGDSDCD     $ 2 */      /* DEERS variable   */
DAGEQY         $ 3          /* DEERS variable   */
RDAGEQY        3          /* DEERS variable   */
FIELDAGE       $ 3          /* DEERS variable   */
RFLDAGE        3          /* DEERS variable   */
PCM            $ 3          /* DEERS variable   */
ACV            $ 1          /* DEERS variable   */
DBENCAT        $ 3          /* DEERS variable   */
DMEDELG        $ 1          /* DEERS variable   */
DSPONSVC       $ 1          /* DEERS variable   */
MBRRELCD       $ 1          /* DEERS variable   */
MEDTYPE        $ 1          /* DEERS variable   */
PATCAT         $ 7          /* DEERS variable   */
PNTYPCD        $ 1          /* DEERS variable   */
PNLCATCD       $ 1          /* DEERS variable   */

H10001         4          /* Questionnaire variable */
H10002A        4          /* Questionnaire variable */

```


H10062	4	/* Questionnaire variable	*/
H10063	4	/* Questionnaire variable	*/
H10064	4	/* Questionnaire variable	*/
H10065	4	/* Questionnaire variable	*/
H10066	4	/* Questionnaire variable	*/
H10067	4	/* Questionnaire variable	*/
H10068	4	/* Questionnaire variable	*/
H10069F	4	/* Questionnaire variable	*/
H10069I	4	/* Questionnaire variable	*/
H10070	4	/* Questionnaire variable	*/
H10071	4	/* Questionnaire variable	*/
H10071A	4	/* Questionnaire variable	*/
H10071B	4	/* Questionnaire variable	*/
H10071C	4	/* Questionnaire variable	*/
H10071D	4	/* Questionnaire variable	*/
H10071E	4	/* Questionnaire variable	*/
H10072	4	/* Questionnaire variable	*/
H10073	4	/* Questionnaire variable	*/
H10074	4	/* Questionnaire variable	*/
SREDA	4	/* Questionnaire variable	*/
SRRACEA	4	/* Questionnaire variable	*/
SRRACEB	4	/* Questionnaire variable	*/
SRRACEC	4	/* Questionnaire variable	*/
SRRACED	4	/* Questionnaire variable	*/
SRRACEE	4	/* Questionnaire variable	*/
SRAGE	4	/* Questionnaire variable	*/
S10009	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10010	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10B01	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10B02	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10B03	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10B04	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10D03	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10D02	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10D05	4	/* Q3 & Q4 Supplement	*/
S10011	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10014	4	/* Q1 & Q2 & Q3 & Q4 Supplement	*/
S10G18	4	/* Q1 Supplement	*/
S10G19	4	/* Q1 Supplement	*/
S10G23	4	/* Q1 Supplement	*/
S10G27	4	/* Q1 Supplement	*/
S10G28	4	/* Q1 Supplement	*/
S10G29A	4	/* Q1 Supplement	*/
S10G29B	4	/* Q1 Supplement	*/
S10G29C	4	/* Q1 Supplement	*/
S10G29D	4	/* Q1 Supplement	*/
S10G29E	4	/* Q1 Supplement	*/
S10G29F	4	/* Q1 Supplement	*/
S10G29G	4	/* Q1 Supplement	*/
S10G29H	4	/* Q1 Supplement	*/
S10G29I	4	/* Q1 Supplement	*/
S10G29J	4	/* Q1 Supplement	*/
S10G29K	4	/* Q1 Supplement	*/
S10G30	4	/* Q1 Supplement	*/
S10G31	4	/* Q1 Supplement	*/
S10G32	4	/* Q1 Supplement	*/
S10G33	4	/* Q1 Supplement	*/
S10G34	4	/* Q1 Supplement	*/
S10G35	4	/* Q1 Supplement	*/
S10G40	4	/* Q1 Supplement	*/
S10G41	4	/* Q1 Supplement	*/
S10G42	4	/* Q1 Supplement	*/
S10G43	4	/* Q1 Supplement	*/
S10B23	4	/* Q1 Supplement	*/
S10B24	4	/* Q1 Supplement	*/
S10B25	4	/* Q1 Supplement	*/
S10B26	4	/* Q1 Supplement	*/
S10B22	4	/* Q1 Supplement	*/
S10V19	4	/* Q2 Supplement	*/
S10V20	4	/* Q2 Supplement	*/
S10V21A	4	/* Q2 Supplement	*/
S10V21B	4	/* Q2 Supplement	*/

S10V21C	4	/* Q2 Supplement	*/
S10V21D	4	/* Q2 Supplement	*/
S10V21E	4	/* Q2 Supplement	*/
S10V21F	4	/* Q2 Supplement	*/
S10V21G	4	/* Q2 Supplement	*/
S10V21H	4	/* Q2 Supplement	*/
S10V21I	4	/* Q2 Supplement	*/
S10V21J	4	/* Q2 Supplement	*/
S10V22	4	/* Q2 Supplement	*/
S10V06	4	/* Q2 Supplement	*/
S10V11A	4	/* Q2 Supplement	*/
S10V11B	4	/* Q2 Supplement	*/
S10V11C	4	/* Q2 Supplement	*/
S10V11D	4	/* Q2 Supplement	*/
S10V11E	4	/* Q2 Supplement	*/
S10V11F	4	/* Q2 Supplement	*/
S10V11G	4	/* Q2 Supplement	*/
S10V11H	4	/* Q2 Supplement	*/
S10V11I	4	/* Q2 Supplement	*/
S10V23	4	/* Q2 Supplement	*/
S10V24	4	/* Q2 Supplement	*/
S10V25	4	/* Q2 Supplement	*/
S10V26A	4	/* Q2 Supplement	*/
S10V26B	4	/* Q2 Supplement	*/
S10V26C	4	/* Q2 Supplement	*/
S10V26D	4	/* Q2 Supplement	*/
S10V26E	4	/* Q2 Supplement	*/
S10V26F	4	/* Q2 Supplement	*/
S10V26G	4	/* Q2 Supplement	*/
S10V26H	4	/* Q2 Supplement	*/
S10V26I	4	/* Q2 Supplement	*/
S10V26J	4	/* Q2 Supplement	*/
S10V27	4	/* Q2 Supplement	*/
S10V28	4	/* Q2 Supplement	*/
S10V07	4	/* Q2 Supplement	*/
S10V12A	4	/* Q2 Supplement	*/
S10V12B	4	/* Q2 Supplement	*/
S10V12C	4	/* Q2 Supplement	*/
S10V12D	4	/* Q2 Supplement	*/
S10V12E	4	/* Q2 Supplement	*/
S10V12F	4	/* Q2 Supplement	*/
S10V12G	4	/* Q2 Supplement	*/
S10V12H	4	/* Q2 Supplement	*/
S10V01	4	/* Q2 Supplement	*/
S10V02	4	/* Q2 Supplement	*/
S10V05	4	/* Q2 Supplement	*/
S10V09	4	/* Q2 Supplement	*/
S10C09	4	/* Q3 Supplement	*/
S10C10	4	/* Q3 Supplement	*/
S10C11	4	/* Q3 Supplement	*/
S10C12	4	/* Q3 Supplement	*/
S10C13	4	/* Q3 Supplement	*/
S10C14	4	/* Q3 Supplement	*/
S10C01	4	/* Q3 Supplement	*/
S10C02	4	/* Q3 Supplement	*/
S10C03	4	/* Q3 Supplement	*/
S10C04	4	/* Q3 Supplement	*/
S10C06	4	/* Q3 Supplement	*/
S10C07	4	/* Q3 Supplement	*/
S10C08	4	/* Q3 Supplement	*/
S10C05	4	/* Q3 Supplement	*/
S10Q01	4	/* Q3 Supplement	*/
S10Q02	4	/* Q3 Supplement	*/
S10Q03	4	/* Q3 Supplement	*/
S10Q04	4	/* Q3 Supplement	*/
S10Q05	4	/* Q3 Supplement	*/
S10C15	4	/* Q3 Supplement	*/
S10C16	4	/* Q3 Supplement	*/
S10C17	4	/* Q3 Supplement	*/
S10C18	4	/* Q3 Supplement	*/
S10C19	4	/* Q3 Supplement	*/
S10R01	4	/* Q4 Supplement	*/
S10R02	4	/* Q4 Supplement	*/
S10R03A	4	/* Q4 Supplement	*/

S10R03B	4	/* Q4 Supplement	*/
S10R03C	4	/* Q4 Supplement	*/
S10R03D	4	/* Q4 Supplement	*/
S10R03E	4	/* Q4 Supplement	*/
S10R04A	4	/* Q4 Supplement	*/
S10R04B	4	/* Q4 Supplement	*/
S10R04C	4	/* Q4 Supplement	*/
S10R04D	4	/* Q4 Supplement	*/
S10R04E	4	/* Q4 Supplement	*/
S10R04F	4	/* Q4 Supplement	*/
S10R04G	4	/* Q4 Supplement	*/
S10R05	4	/* Q4 Supplement	*/
S10R06	4	/* Q4 Supplement	*/
S10R07	4	/* Q4 Supplement	*/
S10R08	4	/* Q4 Supplement	*/
S10R09	4	/* Q4 Supplement	*/
S10R10	4	/* Q4 Supplement	*/
S10R11	4	/* Q4 Supplement	*/
S10R12	4	/* Q4 Supplement	*/
S10R13	4	/* Q4 Supplement	*/
S10R14	4	/* Q4 Supplement	*/
S10R15	4	/* Q4 Supplement	*/
ONTIME	\$ 3	/* Survey fielding variable	*/
FLAG_FIN	\$ 5	/* Survey Fielding variable	*/
DUPFLAG	\$ 3	/* Survey Fielding variable	*/
FNSTATUS	8	/* Survey fielding variable	*/
KEYCOUNT	8	/* Survey fielding variable	*/
QUARTER	\$ 8	/* Survey fielding variable	*/
/*TRICKDUP	\$ 3*/	/* Survey Fielding variable	*/
WEB	8	/* Survey Fielding variable	*/
/* WEBFLYER	8	/* Survey Fielding variable	*/
N1	8	/* CS flag variable	*/
N2	8	/* CS flag variable	*/
N3	8	/* CS flag variable	*/
N4	8	/* CS flag variable	*/
N5	8	/* CS flag variable	*/
N5A1	8	/* CS flag variable	*/
N5A2	8	/* CS flag variable	*/
N5A3	8	/* CS flag variable	*/
N6	8	/* CS flag variable	*/
N6_Q3	8	/* CS flag variable	*/
N6A1	8	/* CS flag variable	*/
N7	8	/* CS flag variable	*/
N8	8	/* CS flag variable	*/
N8A1	8	/* CS flag variable	*/
N8B1	8	/* CS flag variable	*/
N9	8	/* CS flag variable	*/
N10	8	/* CS flag variable	*/
N10_Q3	8	/* CS flag variable	*/
N10A1	8	/* CS flag variable	*/
N10B1	8	/* CS flag variable	*/
N10B2	8	/* CS flag variable	*/
N10B3	8	/* CS flag variable	*/
N10B4	8	/* CS flag variable	*/
N10B5	8	/* CS flag variable	*/
N10B6	8	/* CS flag variable	*/
N10B7	8	/* CS flag variable	*/
N11	8	/* CS flag variable	*/
N11B	8	/* CS flag variable	*/
N12	8	/* CS flag variable	*/
N13	8	/* CS flag variable	*/
N14	8	/* CS flag variable	*/
N15	8	/* CS flag variable	*/
N16	8	/* CS flag variable	*/
N16A1	8	/* CS flag variable	*/
N16A2	8	/* CS flag variable	*/
N16B1	8	/* CS flag variable	*/
N16B2	8	/* CS flag variable	*/
N16B3	8	/* CS flag variable	*/
N16B4	8	/* CS flag variable	*/
N16C1	8	/* CS flag variable	*/

N16C2	8	/* CS flag variable	*/
N16C3	8	/* CS flag variable	*/
N16C4	8	/* CS flag variable	*/
N17	8	/* CS flag variable	*/
N18	8	/* CS flag variable	*/
N19A	8	/* CS flag variable	*/
N19B	8	/* CS flag variable	*/
N20	8	/* CS flag variable	*/
N21	8	/* CS flag variable	*/
N21A1	8	/* CS flag variable	*/
N22	8	/* CS flag variable	*/
N23	8	/* CS flag variable	*/
N24	8	/* CS flag variable	*/
MISS_1	8	/* CS Count	*/
MISS_3	8	/* CS Count	*/
MISS_4	8	/* CS Count	*/
MISS_5	8	/* CS Count	*/
MISS_6	8	/* CS Count	*/
MISS_7	8	/* CS Count	*/
/*MISS_8	8*/	/* CS Count	*/
MISS_9	8	/* CS Count	*/
MISS_TOT	8	/* CS Count	*/
XSERVAFF	3	/* constructed	*/
XTNEXREG	3	/* constructed	*/
XBMI	8	/* constructed	*/
XBMICAT	3	/* constructed	*/
XENRLLMT	8	/* constructed	*/
XENR_PCM	8	/* constructed	*/
XINS_COV	8	/* constructed	*/
XBENCAT	8	/* constructed	*/
XENR_RSV	8	/* constructed	*/
XINS_RSV	8	/* constructed	*/
XREGION	3	/* constructed	*/
XCATCH	8	/* constructed	*/
USA	3	/* constructed	*/
XOCONUS	3	/* constructed	*/
OUTCATCH	8	/* constructed	*/
XSEXA	8	/* constructed	*/
XBNFGRP	8	/* constructed	*/
/*KDIENRL	8*/	/* constructed	*/
/*KMILOFFC	8*/	/* constructed	*/
/*KCIVOFFC	8*/	/* constructed	*/
/*KBGPRB1	8*/	/* constructed	*/
/*KBGPRB2	8*/	/* constructed	*/
KMILOPQY	8	/* constructed	*/
KCIVOPQY	8	/* constructed	*/
KCIVINS	8	/* constructed	*/
/*KBRSTCR	8*/	/* constructed	*/
HP_PRNTL	8	/* constructed	*/
HP_MAMOG	8	/* constructed	*/
HP_MAM50	8	/* constructed	*/
HP_PAP	8	/* constructed	*/
HP_BP	8	/* constructed	*/
HP_FLU	8	/* constructed	*/
/*HP_PROS	8*/	/* constructed	*/
/*HP_BRST	8*/	/* constructed	*/
/*HP_CHOL	8*/	/* constructed	*/
HP_SMOKE	8	/* constructed	*/
/*HP_SMOKH	8*/	/* constructed	*/
HP_SMKH2	8	/* constructed	*/
/*HP_CESS	8*/	/* constructed	*/
/*HP_CESH	8*/	/*constructed	*/
HP_CESH2	8	/* constructed	*/
/*HP_NORM	8*/	/* constructed	*/
HP_OBESE	8	/* conestructed	*/
/*ADJ_CELL	\$7*/	/* constructed	*/
/*POSTC_O	\$3*/	/* constructed	*/
POSTCELL	\$7	/* constructed	*/

BWT	8	/* weights	*/
FWRWT	8	/* weights	*/
FWRWT1	8	/* weights	*/
FWRWT2	8	/* weights	*/
FWRWT3	8	/* weights	*/
FWRWT4	8	/* weights	*/
FWRWT5	8	/* weights	*/
FWRWT6	8	/* weights	*/
FWRWT7	8	/* weights	*/
FWRWT8	8	/* weights	*/
FWRWT9	8	/* weights	*/
FWRWT10	8	/* weights	*/
FWRWT11	8	/* weights	*/
FWRWT12	8	/* weights	*/
FWRWT13	8	/* weights	*/
FWRWT14	8	/* weights	*/
FWRWT15	8	/* weights	*/
FWRWT16	8	/* weights	*/
FWRWT17	8	/* weights	*/
FWRWT18	8	/* weights	*/
FWRWT19	8	/* weights	*/
FWRWT20	8	/* weights	*/
FWRWT21	8	/* weights	*/
FWRWT22	8	/* weights	*/
FWRWT23	8	/* weights	*/
FWRWT24	8	/* weights	*/
FWRWT25	8	/* weights	*/
FWRWT26	8	/* weights	*/
FWRWT27	8	/* weights	*/
FWRWT28	8	/* weights	*/
FWRWT29	8	/* weights	*/
FWRWT30	8	/* weights	*/
FWRWT31	8	/* weights	*/
FWRWT32	8	/* weights	*/
FWRWT33	8	/* weights	*/
FWRWT34	8	/* weights	*/
FWRWT35	8	/* weights	*/
FWRWT36	8	/* weights	*/
FWRWT37	8	/* weights	*/
FWRWT38	8	/* weights	*/
FWRWT39	8	/* weights	*/
FWRWT40	8	/* weights	*/
FWRWT41	8	/* weights	*/
FWRWT42	8	/* weights	*/
FWRWT43	8	/* weights	*/
FWRWT44	8	/* weights	*/
FWRWT45	8	/* weights	*/
FWRWT46	8	/* weights	*/
FWRWT47	8	/* weights	*/
FWRWT48	8	/* weights	*/
FWRWT49	8	/* weights	*/
FWRWT50	8	/* weights	*/
FWRWT51	8	/* weights	*/
FWRWT52	8	/* weights	*/
FWRWT53	8	/* weights	*/
FWRWT54	8	/* weights	*/
FWRWT55	8	/* weights	*/
FWRWT56	8	/* weights	*/
FWRWT57	8	/* weights	*/
FWRWT58	8	/* weights	*/
FWRWT59	8	/* weights	*/
FWRWT60	8	/* weights	*/
CFWT	8	/* weights	*/
CFWT1	8	/* weights	*/
CFWT2	8	/* weights	*/
CFWT3	8	/* weights	*/
CFWT4	8	/* weights	*/
CFWT5	8	/* weights	*/
CFWT6	8	/* weights	*/
CFWT7	8	/* weights	*/
CFWT8	8	/* weights	*/
CFWT9	8	/* weights	*/

CFWT10	8	/* weights	*/
CFWT11	8	/* weights	*/
CFWT12	8	/* weights	*/
CFWT13	8	/* weights	*/
CFWT14	8	/* weights	*/
CFWT15	8	/* weights	*/
CFWT16	8	/* weights	*/
CFWT17	8	/* weights	*/
CFWT18	8	/* weights	*/
CFWT19	8	/* weights	*/
CFWT20	8	/* weights	*/
CFWT21	8	/* weights	*/
CFWT22	8	/* weights	*/
CFWT23	8	/* weights	*/
CFWT24	8	/* weights	*/
CFWT25	8	/* weights	*/
CFWT26	8	/* weights	*/
CFWT27	8	/* weights	*/
CFWT28	8	/* weights	*/
CFWT29	8	/* weights	*/
CFWT30	8	/* weights	*/
CFWT31	8	/* weights	*/
CFWT32	8	/* weights	*/
CFWT33	8	/* weights	*/
CFWT34	8	/* weights	*/
CFWT35	8	/* weights	*/
CFWT36	8	/* weights	*/
CFWT37	8	/* weights	*/
CFWT38	8	/* weights	*/
CFWT39	8	/* weights	*/
CFWT40	8	/* weights	*/
CFWT41	8	/* weights	*/
CFWT42	8	/* weights	*/
CFWT43	8	/* weights	*/
CFWT44	8	/* weights	*/
CFWT45	8	/* weights	*/
CFWT46	8	/* weights	*/
CFWT47	8	/* weights	*/
CFWT48	8	/* weights	*/
CFWT49	8	/* weights	*/
CFWT50	8	/* weights	*/
CFWT51	8	/* weights	*/
CFWT52	8	/* weights	*/
CFWT53	8	/* weights	*/
CFWT54	8	/* weights	*/
CFWT55	8	/* weights	*/
CFWT56	8	/* weights	*/
CFWT57	8	/* weights	*/
CFWT58	8	/* weights	*/
CFWT59	8	/* weights	*/
CFWT60	8	/* weights	*/
CFWT61	8	/* weights	*/
CFWT62	8	/* weights	*/
CFWT63	8	/* weights	*/
CFWT64	8	/* weights	*/
CFWT65	8	/* weights	*/
CFWT66	8	/* weights	*/
CFWT67	8	/* weights	*/
CFWT68	8	/* weights	*/
CFWT69	8	/* weights	*/
CFWT70	8	/* weights	*/
CFWT71	8	/* weights	*/
CFWT72	8	/* weights	*/
CFWT73	8	/* weights	*/
CFWT74	8	/* weights	*/
CFWT75	8	/* weights	*/
CFWT76	8	/* weights	*/
CFWT77	8	/* weights	*/
CFWT78	8	/* weights	*/
CFWT79	8	/* weights	*/
CFWT80	8	/* weights	*/
CFWT81	8	/* weights	*/
CFWT82	8	/* weights	*/
CFWT83	8	/* weights	*/

CFWT84	8	/* weights	*/
CFWT85	8	/* weights	*/
CFWT86	8	/* weights	*/
CFWT87	8	/* weights	*/
CFWT88	8	/* weights	*/
CFWT89	8	/* weights	*/
CFWT90	8	/* weights	*/
CFWT91	8	/* weights	*/
CFWT92	8	/* weights	*/
CFWT93	8	/* weights	*/
CFWT94	8	/* weights	*/
CFWT95	8	/* weights	*/
CFWT96	8	/* weights	*/
CFWT97	8	/* weights	*/
CFWT98	8	/* weights	*/
CFWT99	8	/* weights	*/
CFWT100	8	/* weights	*/
CFWT101	8	/* weights	*/
CFWT102	8	/* weights	*/
CFWT103	8	/* weights	*/
CFWT104	8	/* weights	*/
CFWT105	8	/* weights	*/
CFWT106	8	/* weights	*/
CFWT107	8	/* weights	*/
CFWT108	8	/* weights	*/
CFWT109	8	/* weights	*/
CFWT110	8	/* weights	*/
CFWT111	8	/* weights	*/
CFWT112	8	/* weights	*/
CFWT113	8	/* weights	*/
CFWT114	8	/* weights	*/
CFWT115	8	/* weights	*/
CFWT116	8	/* weights	*/
CFWT117	8	/* weights	*/
CFWT118	8	/* weights	*/
CFWT119	8	/* weights	*/
CFWT120	8	/* weights	*/
CFWT121	8	/* weights	*/
CFWT122	8	/* weights	*/
CFWT123	8	/* weights	*/
CFWT124	8	/* weights	*/
CFWT125	8	/* weights	*/
CFWT126	8	/* weights	*/
CFWT127	8	/* weights	*/
CFWT128	8	/* weights	*/
CFWT129	8	/* weights	*/
CFWT130	8	/* weights	*/
CFWT131	8	/* weights	*/
CFWT132	8	/* weights	*/
CFWT133	8	/* weights	*/
CFWT134	8	/* weights	*/
CFWT135	8	/* weights	*/
CFWT136	8	/* weights	*/
CFWT137	8	/* weights	*/
CFWT138	8	/* weights	*/
CFWT139	8	/* weights	*/
CFWT140	8	/* weights	*/
CFWT141	8	/* weights	*/
CFWT142	8	/* weights	*/
CFWT143	8	/* weights	*/
CFWT144	8	/* weights	*/
CFWT145	8	/* weights	*/
CFWT146	8	/* weights	*/
CFWT147	8	/* weights	*/
CFWT148	8	/* weights	*/
CFWT149	8	/* weights	*/
CFWT150	8	/* weights	*/
CFWT151	8	/* weights	*/
CFWT152	8	/* weights	*/
CFWT153	8	/* weights	*/
CFWT154	8	/* weights	*/
CFWT155	8	/* weights	*/
CFWT156	8	/* weights	*/
CFWT157	8	/* weights	*/

CFWT158	8	/* weights	*/
CFWT159	8	/* weights	*/
CFWT160	8	/* weights	*/
CFWT161	8	/* weights	*/
CFWT162	8	/* weights	*/
CFWT163	8	/* weights	*/
CFWT164	8	/* weights	*/
CFWT165	8	/* weights	*/
CFWT166	8	/* weights	*/
CFWT167	8	/* weights	*/
CFWT168	8	/* weights	*/
CFWT169	8	/* weights	*/
CFWT170	8	/* weights	*/
CFWT171	8	/* weights	*/
CFWT172	8	/* weights	*/
CFWT173	8	/* weights	*/
CFWT174	8	/* weights	*/
CFWT175	8	/* weights	*/
CFWT176	8	/* weights	*/
CFWT177	8	/* weights	*/
CFWT178	8	/* weights	*/
CFWT179	8	/* weights	*/
CFWT180	8	/* weights	*/
CFWT181	8	/* weights	*/
CFWT182	8	/* weights	*/
CFWT183	8	/* weights	*/
CFWT184	8	/* weights	*/
CFWT185	8	/* weights	*/
CFWT186	8	/* weights	*/
CFWT187	8	/* weights	*/
CFWT188	8	/* weights	*/
CFWT189	8	/* weights	*/
CFWT190	8	/* weights	*/
CFWT191	8	/* weights	*/
CFWT192	8	/* weights	*/
CFWT193	8	/* weights	*/
CFWT194	8	/* weights	*/
CFWT195	8	/* weights	*/
CFWT196	8	/* weights	*/
CFWT197	8	/* weights	*/
CFWT198	8	/* weights	*/
CFWT199	8	/* weights	*/
CFWT200	8	/* weights	*/
CFWT201	8	/* weights	*/
CFWT202	8	/* weights	*/
CFWT203	8	/* weights	*/
CFWT204	8	/* weights	*/
CFWT205	8	/* weights	*/
CFWT206	8	/* weights	*/
CFWT207	8	/* weights	*/
CFWT208	8	/* weights	*/
CFWT209	8	/* weights	*/
CFWT210	8	/* weights	*/
CFWT211	8	/* weights	*/
CFWT212	8	/* weights	*/
CFWT213	8	/* weights	*/
CFWT214	8	/* weights	*/
CFWT215	8	/* weights	*/
CFWT216	8	/* weights	*/
CFWT217	8	/* weights	*/
CFWT218	8	/* weights	*/
CFWT219	8	/* weights	*/
CFWT220	8	/* weights	*/
CFWT221	8	/* weights	*/
CFWT222	8	/* weights	*/
CFWT223	8	/* weights	*/
CFWT224	8	/* weights	*/
CFWT225	8	/* weights	*/
CFWT226	8	/* weights	*/
CFWT227	8	/* weights	*/
CFWT228	8	/* weights	*/
CFWT229	8	/* weights	*/
CFWT230	8	/* weights	*/
CFWT231	8	/* weights	*/


```

CFWT232      8          /* weights          */
CFWT233      8          /* weights          */
CFWT234      8          /* weights          */
CFWT235      8          /* weights          */
CFWT236      8          /* weights          */
CFWT237      8          /* weights          */
CFWT238      8          /* weights          */
CFWT239      8          /* weights          */
CFWT240      8          /* weights          */
;

SET   &DSNO_2;

LABEL XCATCH = "XCATCH - Catchment Area (Reporting) ";
FORMAT XCATCH CACR.;
BY MPRID;
RUN;

TITLE1 "DOD Annual Health Care Survey (6244-300)";
TITLE2 "Program Name: ADDWGTS.SAS";
TITLE3 "Program Inputs: &DSNI_1..sas7bdat -- &DSNI_2..sas7bdat";
TITLE4 "Program Outputs: &DSNO_1..sas7bdat -- &DSNO_2..sas7bdat";

PROC CONTENTS POSITION; RUN;

/* Create public-use dataset */
DATA OUT.&DSNO_1;
    SET OUT.&DSNO_2(DROP=CACSMPL  SERVAREA  DCATCH  MSM
                    D_FAC  DAGEQY  FIELDAGE  PNLCATCD
                    DMEDELG  MEDTYPE  MBRRELCD  MRTLSTAT
                    PNBRTHDT  PGCD  MASTCD  MAPRZIP
                    MAPRZIPX  RANKCD  ENRID);
RUN;

PROC CONTENTS POSITION; RUN;

*****
* Output the restricted use CONTENTS text file for delivery with the
* database CD.
*****;
PROC PRINTTO PRINT="&DSNO_2..TXT" NEW; RUN;
OPTIONS PAGENO=1;
TITLE4 "Program Outputs: &DSNO_2..sas7bdat/XPT";
PROC CONTENTS DATA=OUT.&DSNO_2; RUN;

*****
* Define and generate SAS Transport file.
*****;
LIBNAME XFILE1 XPORT "..\..\data\&DSNO_1..XPT";
PROC COPY IN=OUT OUT=XFILE1; * Converts input file to transport file;
    SELECT &DSNO_1;          * Selects sas7bdat file to copy;
RUN;

LIBNAME XFILE2 XPORT "..\..\data\&DSNO_2..XPT";
PROC COPY IN=OUT OUT=XFILE2; * Converts input file to transport file;
    SELECT &DSNO_2;          * Selects sas7bdat file to copy;
RUN;

```

F.16 WEIGHTING\FIX2008XCATCH.SAS - FIX CATCHMENT REPORTING VARIABLE (XCATCH) FOR 2008 - ANNUAL.

```

*****
*
* PROGRAM: Fix2008XCATCH.SAS
* PURPOSE: Fix catchment reporting variable (XCATCH) for 2008
* WRITTEN November 6, 2007 BY Keith Rathbun
* TASK: 2009 DoD Database Development (6244-300)
*
* INPUTS: 1) FRAMEA.SD2 - 2008 Quarterly Sample Frames
*          2) HCS08A_1/2.sas7bdat - 2008 Combined Annual HCSDB dataset
*
* UPDATES: 1) September 17, 2009 by Emma Ernst for 2009 database
*          2) September 2, 2010 by Mike Rudacille for 2010 database
*
* OUTPUTS: 1) XCATCH08.sas7bdat - 2008 combined corrected Annual HCSDB dataset
*           (output in the 2010 data area)
*
* NOTES: 1) XCATCH needed to be redefined with the 2010 definition
*          on the 2008 annual dataset
*
*****;
OPTIONS NOFMterr NOCENTER LS=132 PS=80 COMPRESS=YES;
LIBNAME OUT "..\..\DATA";
LIBNAME IN2008 "..\..\2008\DATA";

*****
* Extract variables necessary to construct XCATCH by QUARTER.
*****;
%MACRO GET_QTR(QTR=);
  PROC SORT DATA=IN2008.HCS08A_2
    (KEEP=MPRID ENRID PCM DCATCH D_HEALTH D_FAC SERVAFF XREGION PATCAT QUARTER TNEXREG)
    OUT=TEMP1_&QTR;
  BY MPRID;
  WHERE QUARTER = "&QTR";
  RUN;
%MEND;

%GET_QTR(QTR=Q1FY2008);
%GET_QTR(QTR=Q2FY2008);
%GET_QTR(QTR=Q3FY2008);
%GET_QTR(QTR=Q4FY2008);

*****
* Extract D_PAR for use with creating XCATCH.
*****;
%MACRO GETD_PAR(LOC=);
  %IF "&LOC" = "Q4FY2008" %THEN %DO;
    LIBNAME IN "..\..\&LOC.\DATA\AFINAL";
  %END;
  %ELSE %DO;
    LIBNAME IN V612 "..\..\&LOC.\DATA\AFINAL";
  %END;
  PROC SORT DATA=IN.FRAMEA(KEEP=MPRID D_PAR) OUT=&LOC.;
  BY MPRID;
  RUN;
%MEND;

%GETD_PAR(LOC=Q1FY2008);
%GETD_PAR(LOC=Q2FY2008);
%GETD_PAR(LOC=Q3FY2008);
%GETD_PAR(LOC=Q4FY2008);

DATA Q1;
  MERGE Q1FY2008(IN=IN1) TEMP1_Q1FY2008(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;

DATA Q2;
  MERGE Q2FY2008(IN=IN1) TEMP1_Q2FY2008(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;

```

```

RUN;

DATA Q3;
  MERGE Q3FY2008(IN=IN1) TEMP1_Q3FY2008(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;

DATA Q4;
  MERGE Q4FY2008(IN=IN1) TEMP1_Q4FY2008(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;

DATA TEMP1;
  SET Q1 Q2 Q3 Q4;
  BY MPRID;

  IF      SERVAFF = 'A' THEN XSERVAFF = 1; * Army;
  ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; * Air Force;
  ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; * Navy;
  ELSE XSERVAFF = 4;                       * Other;

  *****
  * Assign XTNEXREG and XOCONUS using XREGION.
  *****;
  IF XREGION IN (1,2,5) THEN XTNEXREG = 1;
  ELSE IF XREGION IN (3,4,6) THEN XTNEXREG = 2;
  ELSE IF XREGION IN (7,8,9,10,11,12,16) THEN XTNEXREG = 3;
  ELSE IF XREGION IN (13,14,15) THEN XTNEXREG = 4;
  ELSE IF XREGION = . THEN DO; /* MER 03/23/10 - If XREGION is missing, set XTNEXREG = TNEXREG
  */
    IF TNEXREG = 'N' THEN XTNEXREG=1;
    ELSE IF TNEXREG = 'S' THEN XTNEXREG=2;
    ELSE IF TNEXREG = 'W' THEN XTNEXREG=3;
    ELSE IF TNEXREG = 'O' THEN XTNEXREG=4;
    ELSE XTNEXREG=.;
  END;

  IF XREGION      = 13 THEN XOCONUS = 1;
  ELSE IF XREGION = 14 THEN XOCONUS = 2;
  ELSE IF XREGION = 15 THEN XOCONUS = 3;
RUN;

*****
* Create and attach XCATCH (Catchment Reporting variable) to final dataset.
* Note that dataset TMPXCTCH with XCATCH is created by this include file.
*****;
%INCLUDE "XCATCH.INC"; * Requires input dataset called TEMP1;
PROC SORT DATA=TMPXCTCH; BY MPRID; RUN;

PROC SORT DATA=IN2008.HCS08A_1(DROP=XCATCH) OUT=HCS08A_1;
  BY MPRID;
RUN;

DATA OUT.XCATCH08;
  MERGE HCS08A_1(IN=IN1) TMPXCTCH(IN=IN2);
  BY MPRID;
  FORMAT _ALL_;
  KEEP MPRID XCATCH QUARTER;
RUN;

TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: Fix2008XCATCH.SAS By Keith Rathbun";
TITLE3 "Program Inputs: 2008 HCSDB sample and analysis files";
TITLE4 "Program Output: XCATCH08.sas7bdat - FY 2008 Combined XCATCH dataset";

PROC FREQ;
  TABLES XCATCH /MISSING LIST;
RUN;

```

F.17 WEIGHTING\FIX2009XCATCH.SAS - FIX CATCHMENT REPORTING VARIABLE (XCATCH) FOR 2009 - ANNUAL.

```

*****
*
* PROGRAM: Fix2009XCATCH.SAS
* PURPOSE: Fix catchment reporting variable (XCATCH) for 2009
* WRITTEN November 6, 2007 BY Keith Rathbun
* TASK: 2010 DoD Database Development (6244-300)
*
* INPUTS: 1) FRAMEA.sas7bdat - 2009 Quarterly Sample Frames
*          2) HCS09A_1/2.sas7bdat - 2009 Combined Annual HCSDB dataset
*
* UPDATES: 1) September 17, 2009 by Emma Ernst for 2009 database
*          2) September 2, 2010 by Mike Rudacille for 2010 database
*
* OUTPUTS: 1) XCATCH09.sas7bdat - 2009 combined corrected Annual HCSDB dataset
*           (output in the 2010 data area)
*
* NOTES: 1) XCATCH needed to be redefined with the 2010 definition
*          on the 2009 annual dataset
*
*****;
OPTIONS NOFMterr NOCENTER LS=132 PS=80 COMPRESS=YES;
LIBNAME OUT "..\..\DATA";
LIBNAME IN2009 "..\..\2009\DATA";

*****
* Extract variables necessary to construct XCATCH by QUARTER.
*****;
%MACRO GET_QTR(QTR=);
  PROC SORT DATA=IN2009.HCS09A_2
    (KEEP=MPRID ENRID PCM DCATCH D_HEALTH D_FAC SERVAFF XREGION PATCAT QUARTER TNEXREG)
    OUT=TEMP1_&QTR;
  BY MPRID;
  WHERE QUARTER = "&QTR";
  RUN;
%MEND;

%GET_QTR(QTR=Q1FY2009);
%GET_QTR(QTR=Q2FY2009);
%GET_QTR(QTR=Q3FY2009);
%GET_QTR(QTR=Q4FY2009);

*****
* Extract D_PAR for use with creating XCATCH.
*****;
%MACRO GETD_PAR(LOC=);
  LIBNAME IN "..\..\&LOC.\DATA\AFINAL";
  PROC SORT DATA=IN.FRAMEA(KEEP=MPRID D_PAR) OUT=&LOC.;
  BY MPRID;
  RUN;
%MEND;

%GETD_PAR(LOC=Q1FY2009);
%GETD_PAR(LOC=Q2FY2009);
%GETD_PAR(LOC=Q3FY2009);
%GETD_PAR(LOC=Q4FY2009);

DATA Q1;
  MERGE Q1FY2009(IN=IN1) TEMP1_Q1FY2009(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;

DATA Q2;
  MERGE Q2FY2009(IN=IN1) TEMP1_Q2FY2009(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;

DATA Q3;
  MERGE Q3FY2009(IN=IN1) TEMP1_Q3FY2009(IN=IN2);
  BY MPRID;

```

```

IF IN1 AND IN2;
RUN;

DATA Q4;
MERGE Q4FY2009(IN=IN1) TEMP1_Q4FY2009(IN=IN2);
BY MPRID;
IF IN1 AND IN2;
RUN;

DATA TEMP1;
SET Q1 Q2 Q3 Q4;
BY MPRID;

IF SERVAF = 'A' THEN XSERVAFF = 1; * Army;
ELSE IF SERVAF = 'F' THEN XSERVAFF = 2; * Air Force;
ELSE IF SERVAF = 'N' THEN XSERVAFF = 3; * Navy;
ELSE XSERVAFF = 4; * Other;

*****
* Assign XTNECREG and XOCONUS using XREGION.
*****;
IF XREGION IN (1,2,5) THEN XTNECREG = 1;
ELSE IF XREGION IN (3,4,6) THEN XTNECREG = 2;
ELSE IF XREGION IN (7,8,9,10,11,12,16) THEN XTNECREG = 3;
ELSE IF XREGION IN (13,14,15) THEN XTNECREG = 4;
ELSE IF XREGION = . THEN DO; /* MER 03/23/10 - If XREGION is missing, set XTNECREG = TNECREG
*/
IF TNECREG = 'N' THEN XTNECREG=1;
ELSE IF TNECREG = 'S' THEN XTNECREG=2;
ELSE IF TNECREG = 'W' THEN XTNECREG=3;
ELSE IF TNECREG = 'O' THEN XTNECREG=4;
ELSE XTNECREG=.;
END;

IF XREGION = 13 THEN XOCONUS = 1;
ELSE IF XREGION = 14 THEN XOCONUS = 2;
ELSE IF XREGION = 15 THEN XOCONUS = 3;
RUN;

*****
* Create and attach XCATCH (Catchment Reporting variable) to final dataset.
* Note that dataset TMPXCTCH with XCATCH is created by this include file.
*****;
%INCLUDE "XCATCH.INC"; * Requires input dataset called TEMP1;
PROC SORT DATA=TMPXCTCH; BY MPRID; RUN;

PROC SORT DATA=IN2009.HCS09A_1(DROP=XCATCH) OUT=HCS09A_1;
BY MPRID;
RUN;

DATA OUT.XCATCH09;
MERGE HCS09A_1(IN=IN1) TMPXCTCH(IN=IN2);
BY MPRID;
FORMAT _ALL_;
KEEP MPRID XCATCH QUARTER;
RUN;

TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: Fix2009XCATCH.SAS By Keith Rathbun";
TITLE3 "Program Inputs: 2009 HCSDB sample and analysis files";
TITLE4 "Program Output: XCATCH09.sas7bdat - FY 2009 Combined XCATCH dataset";

PROC FREQ;
TABLES XCATCH /MISSING LIST;
RUN;

```

F.18 WEIGHTING\XCATCH.INC - CREATE DETAILED CACSMPL FOR ANNUAL REPORT CARDS - ANNUAL.

```

*****
*
* PROGRAM:    XCATCH.INC
* TASK:      DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE:   CREATE DETAILED CACSMPL FOR ANNUAL REPORT CARDS
*
* WRITTEN:   01/20/2004 BY KEITH RATHBUN
*
* MODIFIED:  1) 02/14/2005 BY LUCY LU. RENAME STEP1Q.INC TO XCATCH.INC
*            2) 03/10/2005 BY LUCY LU, REVISED PROGRAM TO RUN 2002 AND 2003 FILES
*            3) 01/06/2006 BY KEITH RATHBUN. Updated for 2006. Removed
*              PROCESS macro.
*            4) 11/16/2006 BY KEITH RATHBUN. Changed XCATCHno collapsement
*              requirement to be less than 80 instead of 20 for this
*              annual version of XCATCH.INC.
*
*
* INPUTS:    1) TEMP1.sas7bdat - Temporary SAS dataset
*            2) TMA.sas7bdat - TMA-provided catchment definitions
*
* OUTPUT:    1) TEMP.sas7bdat - Temporary SAS dataset
*
* NOTES:     1) This program is setup to run for all survey years as long
*              as the necessary variables are passed to it in TEMP1.
*            2) Required variables in TEMP1 dataset include the following:
*              MPRID, ENRID, PCM, DCATCH, D_PAR, D_HEALTH, and D_FAC.
*
* INCLUDES:  1) AssignGEOCELL.inc
*            2) AssignCOM_GEO.inc
*
*****;

%LET smplqtr=Q4FY2010;

LIBNAME TMA V9 "L:\&smplqtr\DATA\AFINAL";
DATA TEMP(KEEP=MPRID GEOCELL PCM ENRID XTNEXREG XSERVAFF XOCONUS PATCAT);
  SET TEMP1;
  BY MPRID;
  if pcm = 'MTF' then do;
    %INCLUDE "L:\&smplqtr\Programs\Sampling\AssignGeoCell.inc";
    else if ('1976' <= enrid <= '1980' ) or ( '6301' <= enrid <= '6323' ) or
      ('6991' <= enrid <= '6994' ) or ('6501' <=enrid <='6512') or
      ('7166' <= enrid <= '7195') or ('6700' <= enrid <= '6881') or enrid='0000'
      then geocell=dcatch; *administrative assignment 1976-1980 added q4 2002, 6700-6881
added q1 2004,
          0000 added q1,2005;
    else if ('8001' <= enrid <= '8036') or ('6901' <= enrid <= '6919')
      then geocell = dcatch; *Managed care contractor assignment, added in q1 2005; *8001-
8036 added q2 2005;
    else if ('3031' <= enrid <= '3057')
      then geocell = dcatch; ***On board ship***;
    else if enrid in ('0002', '0041', '0044', '0082', '0111', '0213', '0235', '0585', '5208',
'0250',
          '0449', '0626', '0012')
      then geocell = dcatch; ***Inactive***; *0626 added q2 2003, 0012 added q4 2003,
          0041, 0044, 0082, 0111, 0213, 0235, 0585 added
q2 2005;
    else if enrid = ' ' then geocell = dcatch; ***enrolled, but missing ENRID, added q2
2005***;
    *****;
    else if ('0190' <= enrid <='0199') then geocell = dcatch;**BYDON;
    *****;
    else geocell = enrid;
  end;
  else if patcat='ACTDTY' then geocell=dcatch; /*Added in qlfy2007, Put the rest of ACTDTY in
their dcatch for sampling purpose*/
  else geocell=dcatch;
RUN;

PROC SORT DATA=TEMP; BY GEOCELL; RUN;

```

```

data TMA (keep = geocell d_par d_fac d_instal d_health d_dmis servaff);
  set TMA.TMA;
  rename facility_Type_Code    =d_fac
         installation_Name     =d_instal
         dmis_facility_Name    =d_dmis
         facility_Service_Code=servaff ;
  length d_par $4.;
  d_par = DMIS_PARENT_ID;
  length geocell $4.;
  geocell = DMIS_ID;
  length d_health $2.;
  d_health = HEALTH_Service_region;
run;

PROC SORT DATA=TMA; BY GEOCELL; RUN;

DATA TEMP;
  MERGE TEMP(IN=IN1) TMA(IN=IN2);
  BY GEOCELL;
  LENGTH FLAG $15;
  IF IN1 AND IN2 THEN FLAG = "BOTH";
  ELSE IF IN1 THEN FLAG = "HCSDB ONLY";
  ELSE FLAG = "TMA XLS ONLY";
  IF IN1;
RUN;

PROC FREQ;
  TABLES FLAG /MISSING LIST;
RUN;

DATA TEMP(KEEP=MPRID XCATCH XTNEXREG XSERVAFF XOCONUS);
  SET TEMP;
  LENGTH XCATCH 8;
  com_geo = geocell;
  if pcm = 'MTF' then do;
    %INCLUDE "L:\&smplqtr\Programs\Sampling\AssignCOM_GEO.inc";
    else if ('1976' <= enrid <= '1980' ) or ( '6301' <= enrid <= '6323' ) or
      ('6991' <= enrid <= '6994' ) or ('6501' <=enrid <='6512') or
      ('7166' <= enrid <= '7195') or ( '6700' <= enrid <= '6881' ) or enrid = '0000' or
      ('8001' <= enrid <= '8036') or ('6901' <= enrid <= '6919') or
      ('3031' <= enrid <= '3057') or
      enrid in ('0002', '0041', '0044', '0082', '0111', '0213', '0235', '0585', '5208',
'0250',
      '0449', '0626', '0012') or
      ('0190' <= enrid <='0199') then com_geo = geocell;
    else com_geo = d_par;
  end;
  else if patcat='ACTDTY' then com_geo=d_par;

  if d_fac='NONCAT' or d_fac='TGRO' or d_fac="TPR" then do;
    if d_health in ('01','02','05','17') then com_geo = '9901';
    else if d_health in ('03','04','06','18') then com_geo = '9902';
    else if d_health in ('07','08','09','10','11','12','19') then com_geo = '9903';
    else if d_health in ('00','13','14','15') then com_geo = '9904';
  end;
  *****
  ***d_fac="TPR" and d_health = '17', '18', '19' were added above for Q4, 2004, ***;
  ***since we got the new regions 17(North T_NEX),18(South T_NEX),19(West T_NEX).***;
  *****

  *** If the facility is unknown then set com_geo indicates unknown facility ***;
  *** '0999' added 03/15 to account for id 6992;
  if com_geo in ('9900', '0999', '0998',' ') then com_geo = '9904';

  *****
  ***Made the following 9 Navy sites stand alone in ql,2005:      ***;
  ***'0026','0068','0231','0378','0387','0405','0407','0508','6215'***;
  *****
  if geocell in ('0026','0068','0231','0378','0387','0405','0407','0508','6215') then
com_geo=geocell;

  xcatch = INPUT(com_geo,8.);
  label xcatch = "XCATCH - Catchment Area (Reporting)";
RUN;

```

```

PROC SORT DATA=TEMP; BY XCATCH; RUN;

PROC SUMMARY DATA=TEMP NWAY;
  CLASS XCATCH;
  OUTPUT OUT=TEMPCNT(DROP=_TYPE_ rename=_FREQ_=XCATCHno);
RUN;

PROC PRINT DATA=TEMPCNT;
RUN;

DATA TMPXCTCH(KEEP=MPRID XCATCH);
  MERGE TEMPCNT TEMP;
  BY XCATCH;

  /** JMA 10/25/2006 Values of Xcatch which occur less than 20 times in
  *** the dataset will be updated
  ***/

  IF XCATCHno < 80 THEN DO;
    XCATCH=SUM(9000,100*XTNEXREG,XSERVAFF);

    IF XOCONUS=1 THEN XCATCH=SUM(9400,XSERVAFF);
    IF XOCONUS=2 THEN XCATCH=SUM(9500,XSERVAFF);
    IF XOCONUS=3 THEN XCATCH=SUM(9600,XSERVAFF);
  END;

RUN;

```


F.19 WEIGHTING\CREPWT.SAS - CALCULATE COMBINED REPLICATE WEIGHTS - ANNUAL.

```

*****
* PROGRAM: DOD\2010\Programs\Weighting\CREPWT.SAS
* TASK: 2010 DOD QUARTERLY HEALTH CARE SURVEY
* PURPOSE: CALCULATE COMBINED ANNUAL REPLICATE WEIGHTS FOR DOD SURVEY - New Weights
* REQUESTED BY DON JANG.
* CREATED: 12/19/2001 by Esther M Friedman
* UPDATED: 02/09/2006 by Haixia Xu for 2005 annual weighting - new weights
* 10/10/2006 by Haixia Xu for 2006 annual weighting - new weights
* 10/09/2007 by Haixia Xu for 2007 annual weighting - new weights
* 10/09/2008 by Haixia Xu for 2008 annual weighting - new weights
* 10/04/2010 by Haixia Xu for 2010 annual weighting - new weights
*
* INPUTS: framea.sas7bdat - Quarterly frame files
* REPWTP.sas7bdat - Quarterly new weights
*
* OUTPUTS: crepwt.sas7bdat - Combined annual replicates for new weights
*
*****
*;

%let year=2010;

/*repwtp.sas7bdat*/
LIBNAME IN1 v8 "L:\Q1FY&year.t\data\afinal";
LIBNAME IN2 v8 "L:\Q2FY&year.t\data\afinal";
LIBNAME IN3 v8 "L:\Q3FY&year.t\data\afinal";
LIBNAME IN4 v8 "L:\Q4FY&year.\data\afinal";
/*framea.sas7bdat*/
LIBNAME INF1 v8 "L:\Q1FY&year.\data\afinal";
LIBNAME INF2 v8 "L:\Q2FY&year.\data\afinal";
LIBNAME INF3 v8 "L:\Q3FY&year.\data\afinal";
LIBNAME INF4 v8 "L:\Q4FY&year.\data\afinal";
/* crepwt.sas7bdat */
LIBNAME OUT v8 "L:\&year.\Data";

%include "L:\Q1FY&year.\programs\weighting\newweights\design_effects_unequal_weights.sas";

OPTIONS PS=79 LS=132 COMPRESS=no errors=0 NOCENTER mlogic mprint symbolgen;

title1 "Program:CREPWT.SAS";
title2 "PURPOSE: CREATES ANNUAL COMBINED WEIGHT AND COMBINED REPLICATED WEIGHT - New weights";
*****
* MERGE THE 4 NEW (with trickles) QUARTERLY WEIGHT FILES
*****;
%macro doqrt(qrt=);
data repwtq&qrt.;
set in&qrt.repwtp(keep=mprid fnstatus postcell bwt fwrwt fwrwt1-fwrwt60);
quarter=&qrt.;
label quarter = 'Dod quarter indicator';
format _all_;
run;

proc sort data=repwtq&qrt.;
by mprid;
run;

%mend doqrt;

%doqrt(qrt=1);
%doqrt(qrt=2);
%doqrt(qrt=3);
%doqrt(qrt=4);

*merge the new quarterly files;
data repwt;
set repwtq1 repwtq2 repwtq3 repwtq4;
by mprid;
run;

*****
* CREATE THE ANNUAL WEIGHTS

```

```

*****;
* Use Equal Weighting Method: Divide each quarterly weight by 4;
data repwt;
  set repwt;
  cfwt=fwrwt/4;
  label cfwt= 'combined annual NEW wt';
run;

*****
* CHECK NEW ANNUAL WEIGHTS
*****;
title3 "Combined replicate file";
proc freq data=repwt;
tables quarter fnstatus fnstatus*quarter/list missing;
run;

title3 "Weighted using fwrwt - quarterly new wt";
proc freq data=repwt;
tables quarter fnstatus fnstatus*quarter/list missing;
weight fwrwt;
run;

title3 "Weighted using cfwt - combined annual new wt";
proc freq data=repwt;
tables quarter fnstatus fnstatus*quarter/list missing;
weight cfwt;
run;

title3 'Checks for cfwt and fwrwt for fnstatus=11';
Proc print data=repwt (obs=200) noobs;
var quarter cfwt fwrwt;
where fnstatus=11;
run;

title3 'Checks for fwrwt by quarter for fnstatus=11';
proc sort data=repwt;
by quarter;
run;

proc means data=repwt n sum mean min max Q1 median Q3;
var fwrwt;
by quarter;
where fnstatus=11;
run;

title3 'Checks for cfwt for fnstatus=11';
proc univariate data=repwt;
var cfwt;
where fnstatus=11;
run;

options compress=yes;

*****
* CREATE THE REPLICATE WEIGHTS
*****;
data crepwt_newwt ( drop = rep );
set repwt;
array repwt[60] fwrwt1 - fwrwt60;
array annual_repwt[240] cfwt1 - cfwt240;
do rep = 1 to 240;
if 1 <= rep <= 60 then
  do;
    if quarter in ( 2, 3, 4 ) then
      annual_repwt[rep] = fwrwt;
    else
      annual_repwt[rep] = repwt[rep];
  end;
else if 61 <= rep <= 120 then
  do;
    if quarter in ( 1, 3, 4 ) then
      annual_repwt[rep] = fwrwt;
    else
      annual_repwt[rep] = repwt[rep - 60];
  end;
end;

```

```

end;
else if 121 <= rep <= 180 then
do;
if quarter in ( 1, 2, 4 ) then
annual_repwt[rep] = fwrwt;
else
annual_repwt[rep] = repwt[rep - 120];
end;
else if 181 <= rep <= 240 then
do;
if quarter in ( 1, 2, 3 ) then
annual_repwt[rep] = fwrwt;
else
annual_repwt[rep] = repwt[rep - 180];
end;
annual_repwt[rep] = annual_repwt[rep]/4;
end;*replicate loop;
run;

* Check the new cfwts;
title3 'Checks for the sum of the new cfwts';
PROC MEANS DATA=crepwt_newwt n sum;
VAR cfwf cfwf1-cfwf240;
output out=sums sum(cfwf cfwf1-cfwf240) = cfwf cfwf1-cfwf240;
RUN;

proc transpose data=sums out=t_sums;
VAR cfwf cfwf1-cfwf240;
run;

proc univariate data=t_sums normal ;
var coll;
run;

*****;
* Output the combined annual replicate weights - Old and New weights
*****;
* Label wts;
%MACRO LABWT;
%DO J = 1 %TO 240;
LABEL CFWT&J. = "Combined Replicated NEW Weight &J.";
%END;
%MEND LABWT;

data out.crepwt;
set crepwt_newwt;
if _N_=1 then do;
label CFWT = "Combined annual NEW Weight"
%LABWT;
end;
run;

title3 'Contents of crepwt.sd2';
proc contents data=out.crepwt ;
run;

*****
*** Calculate the Design Effects
*** As per Nancy and Sonya's requests, check the deff for the annual wts to see
*** how the quarterly weight affects the annual estimates.
*****;

%macro mergefiles(qrt=);

data frame&qrt.;
set inf&qrt..framea(keep=mprid enbgsmpl tnexreg d_health com_geo servaff);

***facility TNEX region***;
length TNEX_grp $1;
if d_health in ('00', '13', '14', '15') then TNEX_grp='O';
else if d_health in ('17', '01', '05') then TNEX_grp='N';
else if d_health in ('18', '04') then TNEX_grp='S';
else if d_health in ('19', '08', '11') then TNEX_grp='W';

```

```

*Correct the TNEX regions for com_geo 0047, 9001, 9002, 9003, 9004:
All the cases in the same com_geo should be in the same TNEX region, which is the region of the
com_geo;
if COM_GEO = '0047' then TNEX_grp='S';
else if COM_GEO = '9001' then TNEX_grp='N';
else if COM_GEO = '9002' then TNEX_grp='S';
else if COM_GEO = '9003' then TNEX_grp='W';
else if COM_GEO = '9004' then TNEX_grp='O';

if tnex_grp in ('N', 'S', 'W') then conus=1;
else if tnex_grp = 'O' then conus=0;

run;

title3 "Check the construction TNEX_grp, conus for quarter &qrt.";
proc freq data=frame&qrt.;
tables TNEX_grp*d_health conus*tnex_grp/missing list;
run;

proc sort data=in&qrt..repwtp(keep=mprid) out=repwt; by mprid; run;
proc sort data=frame&qrt.; by mprid; run;

data merged&qrt.;
merge repwt(in=A) frame&qrt.(in=B);
by mprid;
if a and b;
run;

%mend mergefiles;

%mergefiles(qrt=1);
%mergefiles(qrt=2);
%mergefiles(qrt=3);
%mergefiles(qrt=4);

data merged1234;
set merged1 merged2 merged3 merged4;
by mprid;
run;

proc sort data=out.crepwt(keep=mprid fnstatus bwt fwrwt cfwt) out=crepwt;
by mprid;
run;

data merged;
merge crepwt(in=A) merged1234(in=B);
by mprid;
if a and b;
run;

**create dataset of completes only;
data postwt_fnl;
set merged;
where fnstatus=11;
run;

%design_effects_unequal_weights ( postwt_fnl, enbgsmpl, cfwt, deff_overall, deff_enb );
%design_effects_unequal_weights ( postwt_fnl, tnexreg, cfwt, deff_overall, deff_tnexreg );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp, cfwt, deff_overall, deff_tnexgrp );
%design_effects_unequal_weights ( postwt_fnl, conus, cfwt, deff_overall, deff_conus );
%design_effects_unequal_weights ( postwt_fnl, servaff, cfwt, deff_overall, deff_servaff );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp servaff, cfwt, deff_overall,
deff_TNEXservaff );

*** For Overall ***;
title3 'Design Effects Overall';
proc print data = deff_overall;
run;

*** For ENBGSMPL Groups ***;
title3 'Design Effects for ENBGSMPL';
proc print data= deff_enb;
sum _freq_;
run;

```

```
*** For Beneficiary TNEX Region ***;
title3 'Design Effects for TNEXREG';
proc print data= deff_tnexreg;
sum _freq_;
run;

*** For Facility TNEX region ***;
title3 "Design Effects for Facility's TNEX region";
proc print data= deff_tnexgrp;
sum _freq_;
run;

*** For conus region ***;
title3 "Design Effects for conus";
proc print data= deff_conus;
sum _freq_;
run;

*** For Service Affiliation for the facility ***;
title3 "Design Effects for Facility's Service Affiliation";
proc print data= deff_servaff;
sum _freq_;
run;

*** For TNEX_grp*Servaff ***;
title3 "Design Effects for TNEX_grp by Servaff";
proc print data= deff_TNEXservaff;
sum _freq_;
run;

***** The End *****;
```

F.20.A RESPONSE_RATE\ANNUAL_RR.SAS - COMBINE Q1-Q4 AND ANNUAL RESPONSE RATES INTO ONE EXCEL FILE.

```

*****
*
* PROGRAM: ANNUAL_RR.SAS
* TASK: 2006 DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE: Combine Q1-Q4 and annual response_rates.xls files
*          into one file called response_rates_annual.xls.
* WRITTEN: 03/15/2005 BY KEITH RATHBUN
*
* MODIFIED:
*
* INPUT: 1) RESPONSE_RATES.XLS files (Q1-Q4 and Annual)
*         2) EMPTY_ANNUAL.XLS file (empty template)
*
* OUTPUT: 1) RESPONSE_RATES_ANNUAL.XLS
*
* INCLUDES: None
*
* NOTES:
*
* 1) This program must be run in BATCH mode. DO NOT modify the directory
*     references to be hard-wired to support interactive use.
*
*****;
OPTIONS PS=79 LS=132 COMPRESS=YES ERRORS=1 NOXWAIT NOCENTER mprint mlogic symbolgen;

LIBNAME LIBRARY V8 "..\..\DATA\FMTLIB";

*****
* Assign Q1-Q4 and annual spreadsheet file names and year.
*****;
%LET FILE1 = ..\..\Q1FY2010t\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE2 = ..\..\Q2FY2010t\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE3 = ..\..\Q3FY2010t\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE4 = ..\..\Q4FY2010\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE5 = RESPONSE_RATES.XLS;
%LET YEAR = 2010;

TITLE1 "Program: ANNUAL_RR.SAS";
TITLE2 "Purpose: Combine Q1-Q4 and Annual Response Rate XLS files";

*****
* Assign sheetnames and establish global variables.
*****;
* All of the response_rates.xls files must be populated with the following
* sheetnames (generated by TABLE02.SAS):
*****;

%LET DSN1 = TABLE02A;
*%LET DSN2 = XREGION;
%LET DSN2 = HAS_EMAIL;
%LET DSN3 = XOCONUS;
%LET DSN4 = USA;
%LET DSN5 = SEXSMPL;
%LET DSN6 = ENBGSMPL;
%LET DSN7 = CACSMPL;
%LET DSN8 = PATCAT;
%LET DSN9 = SERVAFF;
%LET DSN10 = SVCSMPL;
%LET DSN11 = XTNEXREG;
%LET DSN12 = PATCATSVCSMPL;
%LET DSN13 = PATCATSEXSMPL;
%LET DSN14 = XTNEXREGCACSMPL;
%LET DSN15 = PATCATHAS_EMAIL;
%LET DSN16 = USAPATCATHAS_EMAIL;

*****
* Macro used to read Q1-Q4 and annual spreadsheet files.
*****;
%MACRO READXLS(DSN=, NUMDOM=);
    %IF &NUMDOM LE 1 %THEN %DO; * Read 3 columns in sheet;
        FILENAME INDATA DDE "excel|&DSN!r5c1:r9999c3";
    %END;
%END;

```

```

%END;
%ELSE %IF &NUMDOM = 2 %THEN %DO; * Read 4 columns in sheet;
    FILENAME INDATA DDE "excel|&DSN!r5c1:r9999c4";
%END;
%ELSE %IF &NUMDOM = 3 %THEN %DO; * Read 5 columns in sheet;
    FILENAME INDATA DDE "excel|&DSN!r5c1:r9999c5";
%END;
DATA &DSN.&I;
    INFILE INDATA DLM='09'X NOTAB LRECL=500 PAD MISSEVER DSD;
    LENGTH DOMAIN1-DOMAIN3 $40;
    LENGTH DSN $30;
    %IF &NUMDOM = 0 %THEN %DO;
        INPUT DOMAIN1 : $CHAR40.
            RR      : 4.1
            RRW     : 4.1;
        DOMAIN1 = "TABLE02A";
    %END;
    %IF &NUMDOM = 1 %THEN %DO;
        INPUT DOMAIN1 : $CHAR40.
            RR      : 4.1
            RRW     : 4.1;
    %END;
    %ELSE %IF &NUMDOM = 2 %THEN %DO;
        INPUT DOMAIN1 : $CHAR40.
            DOMAIN2 : $CHAR40.
            RR      : 4.1
            RRW     : 4.1;
    %END;
    %ELSE %IF &NUMDOM = 3 %THEN %DO;
        INPUT DOMAIN1 : $CHAR40.
            DOMAIN2 : $CHAR40.
            DOMAIN3 : $CHAR40.
            RR      : 4.1
            RRW     : 4.1;
    %END;
    NUMDOM = &NUMDOM;
    FNUM = &I;
    DSN = "&DSN";
RUN;
%MEND READXLS;

*****
* Read Q1-Q4 and annual spreadsheet files.
*****;
%MACRO READIT;
    %GLOBAL I;
    %DO I = 1 %TO 5;
        X "START &&FILE&I";
        %READXLS(DSN=&DSN1, NUMDOM=0);
        %READXLS(DSN=&DSN2, NUMDOM=1);
        %READXLS(DSN=&DSN3, NUMDOM=1);
        %READXLS(DSN=&DSN4, NUMDOM=1);
        %READXLS(DSN=&DSN5, NUMDOM=1);
        %READXLS(DSN=&DSN6, NUMDOM=1);
        %READXLS(DSN=&DSN7, NUMDOM=1);
        %READXLS(DSN=&DSN8, NUMDOM=1);
        %READXLS(DSN=&DSN9, NUMDOM=1);
        %READXLS(DSN=&DSN10, NUMDOM=1);
        %READXLS(DSN=&DSN11, NUMDOM=1);
        %READXLS(DSN=&DSN12, NUMDOM=2);
        %READXLS(DSN=&DSN13, NUMDOM=2);
        %READXLS(DSN=&DSN14, NUMDOM=2);
        %READXLS(DSN=&DSN15, NUMDOM=2);
        %READXLS(DSN=&DSN16, NUMDOM=3);

        *****
        * Quit spreadsheet application.
        *****;
        FILENAME CMDS DDE "EXCEL|SYSTEM";
        DATA _NULL_;
            FILE CMDS;
            PUT '[QUIT]';
        RUN;
    %END;

```

```

%MEND READIT;

%READIT;

*****
* Macro used to merge the Q1-Q4 and annual spreadsheet files by DOMAIN(s).
*****;
%MACRO MERGEIT(DSN=, NUMDOM=);
  %IF &NUMDOM LE 1 %THEN %DO;
    PROC SORT DATA=&DSN.1; BY DOMAIN1; RUN;
    PROC SORT DATA=&DSN.2; BY DOMAIN1; RUN;
    PROC SORT DATA=&DSN.3; BY DOMAIN1; RUN;
    PROC SORT DATA=&DSN.4; BY DOMAIN1; RUN;
    PROC SORT DATA=&DSN.5; BY DOMAIN1; RUN;
  %END;
  %ELSE %IF &NUMDOM = 2 %THEN %DO;
    PROC SORT DATA=&DSN.1; BY DOMAIN1 DOMAIN2; RUN;
    PROC SORT DATA=&DSN.2; BY DOMAIN1 DOMAIN2; RUN;
    PROC SORT DATA=&DSN.3; BY DOMAIN1 DOMAIN2; RUN;
    PROC SORT DATA=&DSN.4; BY DOMAIN1 DOMAIN2; RUN;
    PROC SORT DATA=&DSN.5; BY DOMAIN1 DOMAIN2; RUN;
  %END;
  %ELSE %IF &NUMDOM = 3 %THEN %DO;
    PROC SORT DATA=&DSN.1; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
    PROC SORT DATA=&DSN.2; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
    PROC SORT DATA=&DSN.3; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
    PROC SORT DATA=&DSN.4; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
    PROC SORT DATA=&DSN.5; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
  %END;
  DATA MERGED_&DSN;
  MERGE &DSN.1(RENAME=(RR=RR1 RRW=RRW1))
        &DSN.2(RENAME=(RR=RR2 RRW=RRW2))
        &DSN.3(RENAME=(RR=RR3 RRW=RRW3))
        &DSN.4(RENAME=(RR=RR4 RRW=RRW4))
        &DSN.5(RENAME=(RR=RR5 RRW=RRW5));
  %IF &NUMDOM LE 1 %THEN %DO;
    BY DOMAIN1;
  %END;
  %ELSE %IF &NUMDOM = 2 %THEN %DO;
    BY DOMAIN1 DOMAIN2;
  %END;
  %ELSE %IF &NUMDOM = 3 %THEN %DO;
    BY DOMAIN1 DOMAIN2 DOMAIN3;
  %END;
  RUN;
%MEND MERGEIT;

*****
* Merge the Q1-Q4 and annual spreadsheet files by DOMAIN(s).
*****;
%MERGEIT(DSN=&DSN1, NUMDOM=0);
%MERGEIT(DSN=&DSN2, NUMDOM=1);
%MERGEIT(DSN=&DSN3, NUMDOM=1);
%MERGEIT(DSN=&DSN4, NUMDOM=1);
%MERGEIT(DSN=&DSN5, NUMDOM=1);
%MERGEIT(DSN=&DSN6, NUMDOM=1);
%MERGEIT(DSN=&DSN7, NUMDOM=1);
%MERGEIT(DSN=&DSN8, NUMDOM=1);
%MERGEIT(DSN=&DSN9, NUMDOM=1);
%MERGEIT(DSN=&DSN10, NUMDOM=1);
%MERGEIT(DSN=&DSN11, NUMDOM=1);
%MERGEIT(DSN=&DSN12, NUMDOM=2);
%MERGEIT(DSN=&DSN13, NUMDOM=2);
%MERGEIT(DSN=&DSN14, NUMDOM=2);
%MERGEIT(DSN=&DSN15, NUMDOM=2);
%MERGEIT(DSN=&DSN16, NUMDOM=3);

*****
* Macro used to write the combined annual spreadsheet file for each DOMAIN/DSN.
*****;
%MACRO WRITEXLS(DSN=, NUMDOM=);
  DATA _NULL_;

```



```

SET MERGED_&DSN;
*****
* Add values for each DOMAIN to each sheet.
*****;
%IF &NUMDOM LE 1 %THEN %DO;
  FILENAME OUTDATA DDE "excel|&DSN!r1c1:r9999c11";
  FILE OUTDATA DLM='09'X NOTAB LRECL=500;
  LENGTH OLINE $50;
  IF _N_ = 1 THEN DO;
    OLINE = "RESPONSE RATES FOR &YEAR";
    PUT OLINE;
    OLINE = "FOR DOMAIN = &DSN";
    PUT OLINE /;
    H1 = "DOMAIN";      H2 = "Q1 RR"; H3 = "Q1 RRW";
    H4 = "Q2 RR";      H5 = "Q2 RRW";
    H6 = "Q3 RR";      H7 = "Q3 RRW";
    H8 = "Q4 RR";      H9 = "Q4 RRW";
    H10 = "Annual RR"; H11 = "Annual RRW";
    PUT H1 : $CHAR50.
      H2 : $CHAR50.
      H3 : $CHAR50.
      H4 : $CHAR50.
      H5 : $CHAR50.
      H6 : $CHAR50.
      H7 : $CHAR50.
      H8 : $CHAR50.
      H9 : $CHAR50.
      H10 : $CHAR50.
      H11 : $CHAR50.
    ;
  END;
  PUT DOMAIN1: $CHAR40.
    RR1 : 4.1
    RRW1 : 4.1
    RR2 : 4.1
    RRW2 : 4.1
    RR3 : 4.1
    RRW3 : 4.1
    RR4 : 4.1
    RRW4 : 4.1
    RR5 : 4.1
    RRW5 : 4.1
  ;
%END;
%ELSE %IF &NUMDOM = 2 %THEN %DO;
  FILENAME OUTDATA DDE "excel|&DSN!r1c1:r9999c12";
  FILE OUTDATA DLM='09'X NOTAB LRECL=500;
  LENGTH OLINE $50;
  IF _N_ = 1 THEN DO;
    OLINE = "RESPONSE RATES FOR &YEAR";
    PUT OLINE;
    OLINE = "FOR DOMAIN = &DSN";
    PUT OLINE /;
    H1 = "DOMAIN1";    H2 = "DOMAIN2";
    H3 = "Q1 RR";      H4 = "Q1 RRW";
    H5 = "Q2 RR";      H6 = "Q2 RRW";
    H7 = "Q3 RR";      H8 = "Q3 RRW";
    H9 = "Q4 RR";      H10 = "Q4 RRW";
    H11 = "Annual RR"; H12 = "Annual RRW";
    PUT H1 : $CHAR50.
      H2 : $CHAR50.
      H3 : $CHAR50.
      H4 : $CHAR50.
      H5 : $CHAR50.
      H6 : $CHAR50.
      H7 : $CHAR50.
      H8 : $CHAR50.
      H9 : $CHAR50.
      H10 : $CHAR50.
      H11 : $CHAR50.
      H12 : $CHAR50.
    ;
  END;
  PUT DOMAIN1: $CHAR40.

```

```

        DOMAIN2: $CHAR40.
        RR1      : 4.1
        RRW1     : 4.1
        RR2      : 4.1
        RRW2     : 4.1
        RR3      : 4.1
        RRW3     : 4.1
        RR4      : 4.1
        RRW4     : 4.1
        RR5      : 4.1
        RRW5     : 4.1
    ;
%END;
%ELSE %IF &NUMDOM = 3 %THEN %DO;
    FILENAME OUTDATA DDE "excel|&DSN!r1c1:r9999c13";
    FILE OUTDATA DLM='09'X NOTAB LRECL=500;
    LENGTH OLINE $50;
    IF _N_ = 1 THEN DO;
        OLINE = "RESPONSE RATES FOR &YEAR";
        PUT OLINE;
        OLINE = "FOR DOMAIN = &DSN";
        PUT OLINE /;
        H1 = "DOMAIN1";   H2 = "DOMAIN2"; H3 = "DOMAIN3";
        H4 = "Q1 RR";     H5 = "Q1 RRW";
        H6 = "Q2 RR";     H7 = "Q2 RRW";
        H8 = "Q3 RR";     H9 = "Q3 RRW";
        H10 = "Q4 RR";    H11 = "Q4 RRW";
        H12 = "Annual RR"; H13 = "Annual RRW";
        PUT H1 : $CHAR50.
           H2 : $CHAR50.
           H3 : $CHAR50.
           H4 : $CHAR50.
           H5 : $CHAR50.
           H6 : $CHAR50.
           H7 : $CHAR50.
           H8 : $CHAR50.
           H9 : $CHAR50.
          H10 : $CHAR50.
          H11 : $CHAR50.
          H12 : $CHAR50.
          H13 : $CHAR50.
    ;
    END;
    PUT DOMAIN1: $CHAR40.
       DOMAIN2: $CHAR40.
       DOMAIN3: $CHAR40.
       RR1      : 4.1
       RRW1     : 4.1
       RR2      : 4.1
       RRW2     : 4.1
       RR3      : 4.1
       RRW3     : 4.1
       RR4      : 4.1
       RRW4     : 4.1
       RR5      : 4.1
       RRW5     : 4.1
    ;
%END;
RUN;
%MEND;

*****
* Copy empty template file to the combined annual response rate spreadsheet
* and start the XLS file.
*****;
X "COPY EMPTY_ANNUAL.XLS RESPONSE_RATES_ANNUAL.XLS";
X "START RESPONSE_RATES_ANNUAL.XLS";

*****
* Write the combined annual spreadsheet file for each DOMAIN/DSN.
*****;
%WRITEXLS(DSN=&DSN1, NUMDOM=0);
%WRITEXLS(DSN=&DSN2, NUMDOM=1);
%WRITEXLS(DSN=&DSN3, NUMDOM=1);

```

```

%WRITEEXLS(DSN=&DSN4, NUMDOM=1);
%WRITEEXLS(DSN=&DSN5, NUMDOM=1);
%WRITEEXLS(DSN=&DSN6, NUMDOM=1);
%WRITEEXLS(DSN=&DSN7, NUMDOM=1);
%WRITEEXLS(DSN=&DSN8, NUMDOM=1);
%WRITEEXLS(DSN=&DSN9, NUMDOM=1);
%WRITEEXLS(DSN=&DSN10, NUMDOM=1);
%WRITEEXLS(DSN=&DSN11, NUMDOM=1);
%WRITEEXLS(DSN=&DSN12, NUMDOM=2);
%WRITEEXLS(DSN=&DSN13, NUMDOM=2);
%WRITEEXLS(DSN=&DSN14, NUMDOM=2);
%WRITEEXLS(DSN=&DSN15, NUMDOM=2);
%WRITEEXLS(DSN=&DSN16, NUMDOM=3);

*****
* Quit spreadsheet application.
*****;
FILENAME CMDS DDE "EXCEL|SYSTEM";
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[QUIT]';
RUN;

```

F.20.B RESPONSE_RATE\TABLE02.SAS - CALCULATE THE ANNUAL RESPONSE RATES.

```

*****
*
* PROGRAM: TABLE02.SAS
* TASK: 2006 DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE: BUILD TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
* Quarterly DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 11/09/1999 BY KEITH RATHBUN
*
* MODIFIED:
* 1) 12/14/2000, Keith Rathbun - Added printing of weighted (WN) and
* unweighted (SN) population sizes. Also, Update for quarterly survey
* to use BWT instead of BWT99 (generalized variable name for ease of
* maintenance).
* 2) 02/01/2001, Keith Rathbun - Added the PERIOD parameter.
* 3) 01/30/2002, Esther Friedman - added nested macro so it would run
* for all 4 quarters trickle files.
* 4) 11/16/2004, Haixia Xu for Q3, 2004 RR
* - Changed FNSTATUS from 30 to 31, SN3->SN31, WN3->WN31
* - Use MERGEQ.SD2 as the input data
* - Produce the RR for servaff and xtnexreg
* 5) 01/18/2005, Keith Rathbun - Added CREATXLS macro.
* 6) 03/15/2005, Keith Rathbun - Updated for 2004 annual.
* 7) 02/20/2006, Haixia Xu - Updated for 2005 annual
* 7) 11/02/2006, Haixia Xu - Updated for 2006 annual
* 7) 11/13/2007, Haixia Xu - Updated for 2007 annual
*
* INPUT: 1) MERGEQ.SD2 (All quarters)
*
* INCLUDES: 1) TABLE02.IN1
* 2) TABLE02.IN2
*
* NOTES:
*
* 1) This program must be run in BATCH mode. DO NOT modify the directory
* references to be hard-wired to support interactive use.
* 2) If you add a new domain combination, you will need to update the
* EMPTY.XLS file to have a new sheet with the same name as the domain
* variable(s) combination.
*
*****;
OPTIONS PS=79 LS=132 COMPRESS=YES ERRORS=1 NOXWAIT NOCENTER NOFMTErr;* mprint mlogic symbolgen;

%let year=2010;

LIBNAME in1t "..\..\Q1FY&year.t\DATA\AFINAL"; * Q1 mergeq with late response;
LIBNAME in2t "..\..\Q2FY&year.t\DATA\AFINAL"; * Q2 mergeq with late response;
LIBNAME in3t "..\..\Q3FY&year.t\DATA\AFINAL"; * Q3 mergeq with late response;
LIBNAME in4t "..\..\Q4FY&year.t\DATA\AFINAL"; * Q4 mergeq;
LIBNAME inr1 "K:\Q1FY&year."; * Q1 sample;
LIBNAME inr2 "K:\Q2FY&year."; * Q2 sample;
LIBNAME inr3 "K:\Q3FY&year."; * Q3 sample;
LIBNAME inr4 "K:\Q4FY&year."; * Q4 sample;

LIBNAME LIBRARY V8 "..\..\DATA\FMTLIB";

TITLE1 "Program: TABLE02.SAS";
TITLE2 "Purpose: Compute response rates by DOMAIN";

%LET OFILES = ..\..\DATA\Response_Rate\;
%LET QUARTER = 2010 Combined Annual;
%LET DATE= 11-09-2010;
%LET TASKNUM = 06663.300;

proc format;
VALUE $ENBGSm
'01' = "Active duty"
'02' = "Active duty fam,Prime,civ PCM"
'03' = "Active duty fam,Prime,mil PCM"
'04' = "Active duty fam,non-enrollee"
'05' = "Retired,<65,civ PCM"
'06' = "Retired,<65,mil PCM"

```

```

        '07' = "Retired,<65,non-enrollee"
        '08' = "Retired,65+,enrolled"
        '10' = "Retired,65+,non-enrollee"
        '11' = "TRICARE Reserve Select";
VALUE TNEX
. = "Missing Data"
1 = "North"
2 = "South"
3 = "West"
4 = "Overseas" ;
RUN;

*****
* Create ebg_com
*****;

%macro create_ebg(qrt=, q=);
DATA MERGEQ&qrt.;
SET in&qrt..MERGEQ;
/*01/31/2007 by H.Xu.
As per Nancy's suggestion, collapse 09 with 08, since 09 has two few beneficiaries*/
if enbgsmpl = '09' then enbgsmpl='08';
format enbgsmpl $enbgsm.;
RUN;

proc sort data=mergeq&Qrt; by mprid;run;
proc sort data=%IF &Qrt.=1t %THEN %DO; inr&q..sampla03_2 %END;
                %ELSE %IF &Qrt.=2t %THEN %DO; inr&q..sampla03_2 %END;
                %ELSE %IF &Qrt.=3t OR &Qrt.=4 %THEN %DO; inr&q..sampla03_2 %END;
    (keep=mprid has_email)
    out=sampla07_2;
    by mprid;
run;

data mergeq&qrt.;
merge mergeq&qrt.(in=A) sampla07_2(in=B);
by mprid;
IF A AND B;
run;

%mend;

%create_ebg(qrt=1t,q=1);
%create_ebg(qrt=2t,q=2);
%create_ebg(qrt=3t,q=3);
%create_ebg(qrt=4,q=4);

/*Combine 4 quarters*/
DATA MERGERR;
    SET MERGEQ1t MERGEQ2t MERGEQ3t MERGEQ4 ;
RUN;

PROC FREQ DATA=MERGERR;
    TABLES PATCAT*FNSTATUS
            PATCAT RACEETHN PATCAT*RACEETHN PATCAT*SVCSMPL
    /MISSING LIST;
RUN;

%MACRO PROCESS(INPT=, FORM=);
*****
* Process OVERALL Summary of response rates
*****;
DATA _NULL_;
    SET &INPT END=FINISHED;
    IF _N_ = 1 THEN DO;
        SN      = 0;
        SN1     = 0;
        SN11    = 0;
        SN12    = 0;
        SN2     = 0;
        SN31    = 0;
        SN4     = 0;
        SN41    = 0;

```

```

SN42 = 0;
WN = 0;
WN1 = 0;
WN11 = 0;
WN12 = 0;
WN2 = 0;
WN31 = 0;
WN4 = 0;
WN41 = 0;
WN42 = 0;
END;
*****
* Accumulate group 1 weighted and unweighted counts.
*****;
SN + 1;
WN + BWT;
IF FNSTATUS IN(11,12) THEN DO;
  SN1 + 1;
  WN1 + BWT;
  IF FNSTATUS = 11 THEN DO;
    SN11 + 1;
    WN11 + BWT;
  END;
  ELSE DO;
    SN12 + 1;
    WN12 + BWT;
  END;
END;
*****
* Accumulate group 2 weighted and unweighted counts.
*****;
ELSE IF FNSTATUS = 20 THEN DO;
  SN2 + 1;
  WN2 + BWT;
END;
*****
* Accumulate group 3 weighted and unweighted counts.
*****;
ELSE IF FNSTATUS = 31 THEN DO;
  SN31 + 1;
  WN31 + BWT;
END;
*****
* Accumulate group 4 weighted and unweighted counts.
*****;
ELSE IF FNSTATUS IN(41,42) THEN DO;
  SN4 + 1;
  WN4 + BWT;
  IF FNSTATUS = 42 THEN DO;
    SN42 + 1;
    WN42 + BWT;
  END;
  ELSE DO;
    SN41 + 1;
    WN41 + BWT;
  END;
END;
END;

DROP I;
RETAIN
  SN
  SN1
  SN11
  SN12
  SN2
  SN31
  SN4
  SN41
  SN42
  WN
  WN1
  WN11
  WN12
  WN2

```

```

        WN31
        WN4
        WN41
        WN42
    ;

    IF FINISHED THEN GO TO FINISHED;
    RETURN;

FINISHED:
    FILE "&FILES.TABLE02&FORM..OUT" RECFM=V LRECL=9999;
    PUT; PUT; PUT;
    PUT @001 "TABLE 2: OVERALL RESPONSE RATES SUMMARY";
    PUT @001 "&DATE., TASK: &TASKNUM.";
    PUT;
    PUT "SUMMARY OF GROUP COUNTS: FORM &FORM";
    PUT;
    PUT @131 "UNWEIGHTED COUNT"
        @181 "WEIGHTED COUNT"
    ;
    PUT @121 'FLR'
        @131 'FCR'
        @141 'FRR'
        @151 'POP'
        @171 'FLR'
        @181 'FCR'
        @191 'FRR'
        @201 'POP'
    ;
    %INCLUDE "TABLE02.IN2";
    RUN;
%MEND PROCESS;

*****
* Process Single Domain where domain1 is the variable of interest.
*****
%MACRO PROCESS1(DOMAIN1=, INPT=, FORM=);

    PROC SORT DATA=&INPT; BY &DOMAIN1; RUN;

    DATA _NULL_;
        SET &INPT;
        BY &DOMAIN1;
        FILE "&FILES.&DOMAIN1..OUT" RECFM=V LRECL=9999;
        LENGTH VARNAME1 $8;
        LENGTH VARIABLE $30;
        CALL VNAME(&DOMAIN1,VARNAME1);
        VARIABLE = VARNAME1;
        %INCLUDE "TABLE02.IN1";
        IF LAST.&DOMAIN1 THEN DO;
            PUT @001 &DOMAIN1 @;
            %INCLUDE "TABLE02.IN2";
        END; * DOMAIN;
    RUN;
%MEND PROCESS1;

*****
* Process Double Domain where domain1/domain2 are the
* variables of interest.
*****
%MACRO PROCESS2(DOMAIN1=, DOMAIN2=, INPT=, FORM=);

    PROC SORT DATA=&INPT; BY &DOMAIN1 &DOMAIN2; RUN;

    DATA _NULL_;
        SET &INPT;
        BY &DOMAIN1 &DOMAIN2;
        FILE "&FILES.&DOMAIN1&DOMAIN2..OUT" RECFM=V LRECL=9999;
        LENGTH VARNAME1 $8;
        LENGTH VARNAME2 $8;
        LENGTH VARIABLE $30;
        CALL VNAME(&DOMAIN1,VARNAME1);
        CALL VNAME(&DOMAIN2,VARNAME2);
        VARIABLE = VARNAME1 || " " || VARNAME2;

```

```

%INCLUDE "TABLE02.IN1";
IF LAST.&DOMAIN2 THEN DO;
  PUT @001 &DOMAIN1 @;
  PUT @041 &DOMAIN2 @;
  %INCLUDE "TABLE02.IN2";
  SN      = 0;
  SN1     = 0;
  SN11    = 0;
  SN12    = 0;
  SN2     = 0;
  SN31    = 0;
  SN4     = 0;
  SN41    = 0;
  SN42    = 0;
  WN      = 0;
  WN1     = 0;
  WN11    = 0;
  WN12    = 0;
  WN2     = 0;
  WN31    = 0;
  WN4     = 0;
  WN41    = 0;
  WN42    = 0;
END; * DOMAIN;
RUN;
%MEND PROCESS2;

*****
* Process Triple Domain where domain1-3 are the variables of interest.
*****
%MACRO PROCESS3(DOMAIN1=, DOMAIN2=, DOMAIN3=, INPT=, FORM=);

  PROC SORT DATA=&INPT; BY &DOMAIN1 &DOMAIN2 &DOMAIN3; RUN;

  DATA _NULL_;
  SET &INPT;
  BY &DOMAIN1 &DOMAIN2 &DOMAIN3;
  FILE "&FILES.&DOMAIN1&DOMAIN2&DOMAIN3..OUT" RECFM=V LRECL=9999;
  LENGTH VARNAME1 $8;
  LENGTH VARNAME2 $8;
  LENGTH VARNAME3 $8;
  LENGTH VARIABLE $30;
  CALL VNAME(&DOMAIN1,VARNAME1);
  CALL VNAME(&DOMAIN2,VARNAME2);
  CALL VNAME(&DOMAIN3,VARNAME3);
  VARIABLE = VARNAME1 || " " || VARNAME2 || " " || VARNAME3;
  %INCLUDE "TABLE02.IN1";
  IF LAST.&DOMAIN3 THEN DO;
    PUT @001 &DOMAIN1 @;
    PUT @041 &DOMAIN2 @;
    PUT @081 &DOMAIN3 @;
    %INCLUDE "TABLE02.IN2";
    SN      = 0;
    SN1     = 0;
    SN11    = 0;
    SN12    = 0;
    SN2     = 0;
    SN31    = 0;
    SN4     = 0;
    SN41    = 0;
    SN42    = 0;
    WN      = 0;
    WN1     = 0;
    WN11    = 0;
    WN12    = 0;
    WN2     = 0;
    WN31    = 0;
    WN4     = 0;
    WN41    = 0;
    WN42    = 0;
  END; * DOMAIN;
  RUN;
%MEND PROCESS3;

```


Note that the ERROR message of division by zero may be printed out in the log file due to no complete in some domains;

```
*****
* PROCESS OVERALL RESPONSE RATE TABULATION - FORM A
*****;
%PROCESS(INPT=MERGERR, FORM=A);
```

```
*****
* PROCESS SINGLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****;
*%PROCESS1(DOMAIN1=xregion, INPT=MERGERR, FORM="FORM A");
*%PROCESS1(DOMAIN1=QFLAG, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=has_email, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=xoconus, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=USA, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=sexsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=enbgsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=cacsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=patcat, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=servaff, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=svcsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=xtnexreg, INPT=MERGERR, FORM="FORM A");
```

```
*****
* PROCESS DOUBLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****;
```

```
%PROCESS2(DOMAIN1=patcat, DOMAIN2=svcsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS2(DOMAIN1=patcat, DOMAIN2=sexsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS2(DOMAIN1=xtnexreg, DOMAIN2=cacsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS2(DOMAIN1=PATCAT, DOMAIN2=HAS_EMAIL, INPT=MERGERR, FORM="FORM A");
```

```
*****
* PROCESS TRIPLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****;
%PROCESS3(DOMAIN1=USA, DOMAIN2=patcat, DOMAIN3=has_email, INPT=MERGERR, FORM="FORM A");
```

```
*****
* Copy empty template file to constructed variables spreadsheet and
* start the XLS file.
*****;
X "COPY EMPTY.XLS RESPONSE_RATES.XLS";
X "START RESPONSE_RATES.XLS";
```

```
%MACRO CREATXLS(DSN=, NUMDOM=);
*****
* Read text files with response rates for each DOMAIN .
*****;
DATA &DSN(KEEP=DOMAIN1 DOMAIN2 DOMAIN3 RR RRW);
  INFILE "&OFILES.&DSN..OUT" LRECL=9999 RECFM=V;
  INPUT LINEIN $100 @; DROP LINEIN; *Skip over header records;
  LENGTH DOMAIN1-DOMAIN3 $40;
  IF _N_ GE 7 THEN DO;
    INPUT
      @001 DOMAIN1 $CHAR40.
      @041 DOMAIN2 $CHAR40.
      @081 DOMAIN3 $CHAR40.
      @121 FLR1 4.3
      @131 FCR1 4.3
      @141 FRR1 4.3
      @147 SN 7.0
      @171 FLR2 4.3
      @181 FCR2 4.3
      @191 FRR2 4.3
      @197 WN 7.0
    ;
    RR = FRR1*100;
    RRW = FRR2*100;
    OUTPUT;
  END;
RUN;
*****
```

```

* Add values for each DOMAIN to each sheet.
*****;
%IF &NUMDOM LE 1 %THEN %DO;
  FILENAME OUTDATA DDE "excel|&DSN!r1c1:r9999c3";
  DATA _NULL_;
  SET &DSN;
  FILE OUTDATA DLM='09'X NOTAB LRECL=500;
  LENGTH OLINE $50;
  IF _N_ = 1 THEN DO;
    OLINE = "RESPONSE RATES FOR &QUARTER";
    PUT OLINE;
    OLINE = "FOR DOMAIN = &DSN";
    PUT OLINE /;
    H1 = "DOMAIN"; H2 = "RR"; H3 = "RRW";
    PUT H1 : $CHAR50.
       H2 : $CHAR50.
       H3 : $CHAR50.
    ;
  END;
  PUT DOMAIN1: $CHAR40.
     RR      : 4.1
     RRW     : 4.1
  ;
  RUN;
%END;
%ELSE %IF &NUMDOM = 2 %THEN %DO;
  FILENAME OUTDATA DDE "excel|&DSN!r1c1:r9999c4";
  DATA _NULL_;
  SET &DSN;
  FILE OUTDATA DLM='09'X NOTAB LRECL=500;
  LENGTH OLINE $50;
  IF _N_ = 1 THEN DO;
    OLINE = "RESPONSE RATES FOR &QUARTER";
    PUT OLINE;
    OLINE = "FOR DOMAIN = &DSN";
    PUT OLINE /;
    H1 = "DOMAIN1"; H2 = "DOMAIN2"; H3 = "RR"; H4 = "RRW";
    PUT H1 : $CHAR50.
       H2 : $CHAR50.
       H3 : $CHAR50.
       H4 : $CHAR50.
    ;
  END;
  PUT DOMAIN1: $CHAR40.
     DOMAIN2: $CHAR40.
     RR      : 4.1
     RRW     : 4.1
  ;
  RUN;
%END;
%ELSE %IF &NUMDOM = 3 %THEN %DO;
  FILENAME OUTDATA DDE "excel|&DSN!r1c1:r9999c5";
  DATA _NULL_;
  SET &DSN;
  FILE OUTDATA DLM='09'X NOTAB LRECL=500;
  LENGTH OLINE $50;
  IF _N_ = 1 THEN DO;
    OLINE = "RESPONSE RATES FOR &QUARTER";
    PUT OLINE;
    OLINE = "FOR DOMAIN = &DSN";
    PUT OLINE /;
    H1 = "DOMAIN1"; H2 = "DOMAIN2"; H3 = "DOMAIN3"; H4 = "RR"; H5 = "RRW";
    PUT H1 : $CHAR50.
       H2 : $CHAR50.
       H3 : $CHAR50.
       H4 : $CHAR50.
       H5 : $CHAR50.
    ;
  END;
  PUT DOMAIN1 : $CHAR40.
     DOMAIN2 : $CHAR40.
     DOMAIN3 : $CHAR40.
     RR      : 4.1
     RRW     : 4.1
  ;
  RUN;
%END;

```

```

;
RUN;
%END;
%MEND CREATXLS;

%CREATXLS(DSN=TABLE02A, NUMDOM=0);
*CREATXLS(DSN=QFLAG, NUMDOM=1);
%CREATXLS(DSN=HAS_EMAIL, NUMDOM=1);
%CREATXLS(DSN=XOCONUS, NUMDOM=1);
%CREATXLS(DSN=USA, NUMDOM=1);
%CREATXLS(DSN=SEXSMPL, NUMDOM=1);
%CREATXLS(DSN=enbgsmpl, NUMDOM=1);
%CREATXLS(DSN=cacsmpl, NUMDOM=1);
%CREATXLS(DSN=PATCAT, NUMDOM=1);
%CREATXLS(DSN=SERVAFF, NUMDOM=1);
%CREATXLS(DSN=SVCSMPL, NUMDOM=1);
%CREATXLS(DSN=XTNEXREG, NUMDOM=1);
%CREATXLS(DSN=PATCATSVCSMPL, NUMDOM=2);
%CREATXLS(DSN=PATCATSEXSMPL, NUMDOM=2);
%CREATXLS(DSN=XTNEXREGcacsmpl, NUMDOM=2);
%CREATXLS(DSN=PATCATHAS_EMAIL, NUMDOM=2);
%CREATXLS(DSN=USAPATCATHAS_EMAIL, NUMDOM=3);
*****
* Quit spreadsheet application.
*****;
FILENAME CMDS DDE "EXCEL|SYSTEM";
DATA _NULL_;
FILE CMDS;
PUT '[SAVE]';
PUT '[QUIT]';
RUN;

```

F.20.C RESPONSE_RATE\TABLE02.IN1 - INCLUDE FILE1 USED TO CALCULATE ANNUAL RESPONSE RATES.

```

*****
*
* PROGRAM: TABLE02.IN1
* TASK: 2002 DOD HEALTH CARE SURVEY ANALYSIS
* PURPOSE: COMMON CODE INCLUDE FILE USED TO BUILD
*          TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
*          2002 DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 01/08/99 BY KEITH RATHBUN
*
* MODIFIED:
* 1) 5/17/1999, Keith Rathbun - Removed printing of the final location rate
*   (FLR) and final completion rate (FCR).
* 2) 7/07/1999, Keith Rathbun - Added back printing of FLR
* 3) 12/14/2000, Keith Rathbun - Update for quarterly survey to use BWT
*   instead of BWT99 (generalized variable name for ease of maintenance).
* 4) 11/16/2004 by Haixia Xu - Update the coding of FNSTATUS from 30 to 31.
*   SN3->SN31, WN3->WN31
* 5) 01/24/2005 by Keith Rathbun - Update PUT statements to accomodate up
*   to 3 CHAR*40 domains.
*
*****
*
*
IF _N_ = 1 THEN DO;
  PUT; PUT;
  PUT @001 "TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY";
  PUT @001 "&DATE., TASK: &TASKNUM.";
  PUT;
  PUT "SUMMARY OF GROUP COUNTS: " &FORM;
  PUT "VARIABLE = " VARIABLE;
  PUT;
  PUT @131 "UNWEIGHTED COUNT"
    @181 "WEIGHTED COUNT"
    ;
  PUT @121 'FLR'
    @131 'FCR'
    @141 'FRR'
    @151 'POP'
    @171 'FLR'
    @181 'FCR'
    @191 'FRR'
    @201 'POP'
    ;
END;
IF FIRST.&DOMAIN1 THEN DO;
  SN = 0;
  SN1 = 0;
  SN11 = 0;
  SN12 = 0;
  SN2 = 0;
  SN31 = 0;
  SN4 = 0;
  SN41 = 0;
  SN42 = 0;
  WN = 0;
  WN1 = 0;
  WN11 = 0;
  WN12 = 0;
  WN2 = 0;
  WN31 = 0;
  WN4 = 0;
  WN41 = 0;
  WN42 = 0;
END;
*****
* Accumulate group 1 weighted and unweighted counts
*****
;
SN + 1;
WN + BWT;
IF FNSTATUS IN(11,12) THEN DO;
  SN1 + 1;

```

```

WN1 + BWT;
IF FNSTATUS = 11 THEN DO;
  SN11 + 1;
  WN11 + BWT;
END;
ELSE DO;
  SN12 + 1;
  WN12 + BWT;
END;
END;
*****
* Accumulate group 2 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS = 20 THEN DO;
  SN2 + 1;
  WN2 + BWT;
END;
*****
* Accumulate group 3 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS = 31 THEN DO;
  SN31 + 1;
  WN31 + BWT;
END;
*****
* Accumulate group 4 weighted and unweighted counts
*****
;
ELSE IF FNSTATUS IN(41,42) THEN DO;
  SN4 + 1;
  WN4 + BWT;
  IF FNSTATUS = 42 THEN DO;
    SN42 + 1;
    WN42 + BWT;
  END;
  ELSE DO;
    SN41 + 1;
    WN41 + BWT;
  END;
END;
END;

DROP I;
RETAIN
  SN
  SN1
  SN11
  SN12
  SN2
  SN31
  SN4
  SN41
  SN42
  WN
  WN1
  WN11
  WN12
  WN2
  WN31
  WN4
  WN41
  WN42
;

```

F.20.D RESPONSE_RATE\TABLE02.IN2 - INCLUDE FILE2 USED TO CALCULATE ANNUAL RESPONSE RATES.

```

*****
*
* PROGRAM: TABLE02.IN2
* TASK: QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS
* PURPOSE: COMMON CODE INCLUDE FILE USED TO BUILD
* TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
* QUARTERLY DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 01/08/99 BY KEITH RATHBUN
*
* MODIFIED:
* 1) 5/17/1999, Keith Rathbun - Removed printing of the final location rate
* (FLR) and final completion rate (FCR).
* 2) 7/07/1999, Keith Rathbun - Added back printing of FLR
* 3) 12/14/2000, Keith Rathbun - Added printing of weighted (WN) and
* unweighted (SN) population sizes.
* 4) 11/17/2004 BY Haixia Xu - Made changes due to the different coding of FNSTATUS:
* -Rewrite the formula used to calculating FRR1, FRR2
* -SN3->SN31, WN3->WN31
* 5) 01/24/2005 by Keith Rathbun - Update PUT statements to accomodate up
* to 3 CHAR*40 domains.
*
*****
*
*Final Response Rate;
FRR1 = SN11/(SN1 + SN2 + SN4*((SN1 + SN2)/(SN1 + SN2 + SN31)) );
FRR2 = WN11/(WN1 + WN2 + WN4*((WN1 + WN2)/(WN1 + WN2 + WN31)) );

*Final Location Rate;
L = ((SN1 + SN2)/(SN1 + SN2 + SN31))*SN41;
WL = ((WN1 + WN2)/(WN1 + WN2 + WN31))*WN41;
FLR1 = (SN1 + SN2 + L)/(SN1 + SN2 + SN4*((SN1 + SN2)/(SN1 + SN2 + SN31)));
FLR2 = (WN1 + WN2 + WL)/(WN1 + WN2 + WN4*((WN1 + WN2)/(WN1 + WN2 + WN31)));

*Final Completion Rate;
FCR1 = SN11/(SN1 + SN2 + L);
FCR2 = WN11/(WN1 + WN2 + WL);
PUT @121 FLR1 4.3
@131 FCR1 4.3
@141 FRR1 4.3
@147 SN 7.0
@171 FLR2 4.3
@181 FCR2 4.3
@191 FRR2 4.3
@197 WN 7.0
;

```

APPENDIX G

**SAS CODE FOR STATISTICAL AND WEB SPECIFICATIONS FOR THE
2010 TRICARE BENEFICIARY REPORTS – QUARTERS I-IV**

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G.1.A Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\STEP1Q.SAS - CREATE AND RECODE VARIABLES USED IN ADULT BENEFICIARY REPORTS - RUN QUARTERLY.

```

*****
*
* PROJECT: DoD - Quarterly Adult Report Cards
* PROGRAM: STEP1Q.SAS
* PURPOSE: Create Dummy and Recode Variables used in Adult Report Card
*          Create a Female dummy variable
*          Create an Education dummy variable
*          Create 15 region dummies combining regions.
*          7 & 8 into region 8. That is, there
*          isn't a region 7 dummy.
*          Create 7 age dummy variables.
*
*          We require the most desired code to be the highest value.
*          Recode the dependent variables into:
*          1 - the least desirable value
*          2 - the 2nd least desirable value
*          3 - the most desirable value
*          . - missing
*
*          Create 7 variables GROUP1 - GROUP7
*          IF (XINS_COV IN (1,2,6) AND H10004>=2) THEN GROUP1 = 1
*          IF (XENR_PCM IN (1,2,6) AND H10004>=2) THEN GROUP2 = 1
*          IF (XENR_PCM = 3,7 AND H10004>=2) THEN GROUP3 = 1
*          IF XINS_COV IN (3) THEN GROUP4 = 1
*          /*JSO 08/24/2006, Deleted 4,5*/
*          IF XBNFGRP = 1 THEN GROUP5 = 1
*          IF XBNFGRP = 2 THEN GROUP6 = 1
*          IF XBNFGRP IN (3,4) THEN GROUP7 = 1
*          GROUP8 is output for all beneficiaries
*
* MODIFIED: 1) February 2001 By Keith Rathbun, Update for quarterly
*           adult report cards. Removed permanent dataset ENTIRE.SD2.
*           2) August 2001 By Keith Rathbun, Updated DSN and LIBNAME
*           for 3rd quarter adult report cards.
*           3) OCTOBER 2001 BY DANIELE BEAHM, Because there was no post-
*           stratification done in Q3, changed all references of the
*           POSTSTR variable to ADJ_CELL
*           4) JANUARY 2002 BY DANIELE BEAHM, Modified group3 to include
*           XENR_PCM
*           5) April 2002 By Mike Scott, Updated variable names for 2002
*           survey.
*           6) July 2002 By Mike Scott: See Note #2. Replaced variable
*           S02S01 with H04075 (new health status variable), deleted
*           code to recode S02S01 to H00077, and changed H00077/R00077
*           rename/recode to H04075/R04075 rename/recode. The Hispanic/
*           Latino variable is not present.
*           7) January 2003 By Mike Scott, Changed ADJ_CELL to COM_SAMP.
*           8) March 2003 By Mike Scott, Updated variable names for 2003
*           survey.
*           9) June 2003 By Mike Scott, Updated for Q2 2003.
*           10) July 2003 By Mike Scott, Changed COM_SAMP to ADJ_CELL.
*           11) October 2003 By Mike Scott, Updated for Q3 2003.
*           12) January 2004 By Mike Scott, Updated for Q4 2003, and changed
*           DAGEQY to FIELDAGE.
*           13) March 2004 By Mike Scott, Updated for Q1 2004.
*           14) April 2004 By Keith Rathbun, Removed reverse coding for
*           H04031. 2004 survey question wording is 'Within 15 minutes'
*           instead of "More than 15 Minutes". Added service affiliation
*           variables so only one version of this program is needed to
*           handle the consumer watch processing.
*           15) June 2004 by Regina Gramss, Updated for Q2 2004.
*           16) Sept 2004 by Regina Gramss, changed XRegion to xtenxreg, updated for Q3 2004.
*           17) Jan 2005 by Regina Gramss, changed XTENXREG to XSERVREG to include
*           service affiliation. Regions have been changed from 4 categories to 16.
*           18) Apr 2005 by Regina Gramss, updated field names for 2005 data.
*           19) Jul 2005 by Regina Gramss, updated for Q2 2005
*           20) Oct 2005 by Regina Gramss, updated for Q3 2005
*           21) Dec 2005 by Regina Gramss, updated for Q4 2005
*           22) March 21, 2006 by Keith Rathbun, updated variable names
*           for Q2 FY 2006. Changed references to ADJ_CELL to be STRATUM.

```

```

*      23) July 12, 2006 by Justin Oh, updated for Q3 FY 2006
*      24) Aug 22, 2006 by Justin Oh, changed overseas to 3 regions.
*          Regions have been changed from 16 categories to 24.
*          Added XOCONUS to the Keep statement for Overseas classifications.
*          Changed XSERVREG for Overseas (Europe,Pacific,Latin America).
*          Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
*              IF XINS_COV IN (3) THEN GROUP4 = 1
*          Since only XINS_COV IN (1,2,3,6) is kept, (4,5) not needed.
*      25) Oct 03, 2006 by Justin Oh, changed input data HCS063_1 to HCS064_1
*          for Q4FY2006 reports.
*      26) Apr 05, 2007 by Justin Oh, Added %LET BCHTYPE to select BCH types
*          Benchmark OR PurchasedBenchmark.
*      27) Apr 05, 2007 by Justin Oh, Added changes to select RC types
*          ReportCards OR PurchasedReportCards.
*      28) Apr 26, 2007 by Justin Oh, Added codes, variables for new
*          reservists logic.
*      29) May 15, 2007 by Justin Oh, Changed XINS_COV to NXNS_COV to assign
*          Groups 1,3, and 4 for new reservists logic.
*      30) Jul 30, 2007 by Justin Oh, Added added DBENCAT conditions to assign
*          Groups All, 4, 5, and 6.
*      31) Oct 02, 2007 by Justin Oh, changed input data HCS073_1 to HCS074_1
*          for Q4FY2007 reports.
*      32) January 10, 2008 by Keith Rathbun, updated variable names
*          for Q1 FY 2008.
*      33) Apr 11, 2008 by Justin Oh, changed input data HCS081_1 to HCS082_1
*          for Q2FY2008 reports.
*      34) June 13, 2008 by Keith Rathbun, changed input data HCS082_1 to HCS083_1
*          for Q3FY2008 reports.
*      35) Jan 16, 2009 by Mike Rudacille, changed CONUS variable to USA
*      36) Jan 21, 2009 by Mike Rudacille, changed 2009 questionnaire variables
*          applicable to both V3 and V4 from V3 names to V4 names
*      37) March 11, 2009 by Keith Rathbun, changed input data HCS091_1 to HCS092_1
*          for Q2FY2009 reports.
*      38) April 6, 2009 by Mike Rudacille, changed variable names to reflect
*          modifications to beneficiary reports necessary for V4
*      39) June 22, 2009 By Keith Rathbun, Change weight variable from
*          FWRWT_V4 back to FWRWT. Changed input data HCS092_1 to HCS093_1
*          for Q3FY2009 reports.
*      40) Sept 30, 2009 By Mike Rudacille, Changed input data HCS093_1 to HCS094_1
*          for Q4FY2009 reports.
*      41) December 17, 2009 By Emma Ernst, Updated program for Q1FY2010. Updated

```

Variables names

```

*          and input dataset.
*      42) March 2, 2010 By Mike Rudacille, Changed input data HCS101_1 to HCS102_1
*      43) March 25, 2010 By Mike Rudacille, Changed input data HCS102_1 to HCS102_2.
*          The FIELDAGE var is no longer included in the HCSyyyq_1 dataset.
*      44) June 19, 2010 By Mike Rudacille, Changed input data HCS102_2 to HCS103_2.
*      45) August 28, 2010 By Mike Rudacille, Changed input data HCS103_2 to HCS104_2.

```

```

* INPUTS:  1) HCSyyyq_1 - DoD Quarterly HCS Database
*
* OUTPUTS: 1) GROUP1-8.sas7bdat - DoD Quarterly GROUP files as defined above
*
* INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional
*              values for consistency w/ TOPS
*
* NOTES:   1) Groups 1-3 modified 10/09/2000
*
*          2) In Q1_2002, S02S01 was renamed and recoded to H00077 (health
*              status variable for 2000). H02077 was the Hispanic/Latino
*              variable. In Q2_2002, H02077 is health status, and H02079
*              is the Hispanic/Latino variable. To make the Quarter 2 data
*              file (HSC022_1.sd2) more consistent with the Quarter 1 file,
*              the health status variable which was H02077 is now H04075,
*              and the Hispanic/Latino variable which was H02079 is now
*              H02077.

```

*****;

```

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ****/
%LET RCTYPE = ReportCards;

```

```

OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr NOOVP COMPRESS=YES;
LIBNAME OUT "DATA";

```

```
LIBNAME IN1      "..\..\..\Data\AFinal";
LIBNAME LIBRARY  "..\..\..\Data\AFinal\fmtlib";
```

```
TITLE1      'Program Saved as: STEP1Q.SAS';
```

```
%LET WGT = FWRWT;
```

```
proc format;
  value servreg 1 = 'North Army'
                2 = 'North Air Force'
                3 = 'North Navy'
                4 = 'North Other'
                5 = 'South Army'
                6 = 'South Air Force'
                7 = 'South Navy'
                8 = 'South Other'
                9 = 'West Army'
                10 = 'West Air Force'
                11 = 'West Navy'
                12 = 'West Other'
                13 = 'Europe Army'
                14 = 'Europe Air Force'
                15 = 'Europe Navy'
                16 = 'Europe Other'
                17 = 'Pacific Army'
                18 = 'Pacific Air Force'
                19 = 'Pacific Navy'
                20 = 'Pacific Other'
                21 = 'Latin America Army'
                22 = 'Latin America Air Force'
                23 = 'Latin America Navy'
                24 = 'Latin America Other';
```

```
DATA ENTIRE;
```

```
  SET IN1.HCS104_2(KEEP=
    MPRID
    FIELDAGE /*MJS 01/26/04*/
    XTNEXREG
    SERVAFF /*KRR 04/09/04*/
    DBENCAT /*JSO 04/26/2007, added for reservists logic*/
    USA
    ENBGSMPL
    SREDA
    XSEXA
    XBNFGRP
    STRATUM /*KRR 04/03/2006, changed from ADJ_CELL*/
    XINS_COV
    XENR_PCM
    XOCONUS /*JSO 08/24/2006, Overseas Region Indicator*/
    &WGT.
    /* Getting Needed Care */
    H10033
    H10029
    /* Getting Care Quickly */
    H10007
    H10010
    /* How Well Doctors Communicate */
    H10021
    H10022
    H10023
    H10024
    /* Customer Service */
    H10040
    H10041
    /* Claims Processing */
    H10045
    H10046 /*******/
    H10063 /* Health Status */
    H10018 /* Health Care Rating */
    H10047 /* Health Plan Rating */
    H10027 /* Personal Doctor Rating */
    H10031 /* Specialist Rating */
    H10003 /* Health Plan Used */
  )
  logic*/
```

```

                H10004 /* How Long in Health Plan */
                /*******/
            );
FORMAT _ALL_;
IF SERVAFF='A' THEN XSERVAFF=1;           *Army;
  ELSE IF SERVAFF='F' THEN XSERVAFF=2;   *Air Force;
  ELSE IF SERVAFF='N' THEN XSERVAFF=3;   *Navy;
  ELSE XSERVAFF=4;                       *Other;

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE; /* RSG 02/2005 USE CACSMPL TO DELETE MISSING FIELDS*/

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV;                      /*JSO 04/26/2007 added for reservists logic*/
                                           /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR_PCM = .;
END;
                                           /* Note: use tmp_cell in step2q.sas */
LENGTH TMP_CELL XSERVREG 8;
TMP_CELL = STRATUM; /*KRR 04/03/2006, changed from ADJ_CELL*/

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 13;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 14;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 15;
    ELSE XSERVREG = 16;
  END;
  IF XOCONUS = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 17;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 18;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 19;
    ELSE XSERVREG = 20;
  END;
  IF XOCONUS = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 21;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 22;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 23;
    ELSE XSERVREG = 24;
  END;
END;

RUN;

*****
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
* subsets. Create the region dummies. Recode region 7 to region 8.
*****;

```

```

DATA ENTIRE;
SET ENTIRE;
LENGTH DEFAULT = 4;
IF FIELDAGE NE " " THEN DO; /*MJS 01/26/04*/
  AGE1824=0;
  AGE2534=0;
  AGE3544=0;
  AGE4554=0;
  AGE5564=0;
  AGE6574=0;
  AGE75UP=0;
  IF ( '018' <= FIELDAGE <= '024' ) THEN AGE1824=1; /*MJS 01/26/04*/
  ELSE IF ( '025' <= FIELDAGE <= '034' ) THEN AGE2534=1;
  ELSE IF ( '035' <= FIELDAGE <= '044' ) THEN AGE3544=1;
  ELSE IF ( '045' <= FIELDAGE <= '054' ) THEN AGE4554=1;
  ELSE IF ( '055' <= FIELDAGE <= '064' ) THEN AGE5564=1;
  ELSE IF ( '065' <= FIELDAGE <= '074' ) THEN AGE6574=1;
  ELSE IF ( FIELDAGE > '074' ) THEN AGE75UP=1;
END;

*****
* Create the FEMALE dummy variable.
*****;
IF XSEXA = 2 THEN
  FEMALE = 1;
ELSE
  FEMALE = 0;

*****
* Create the beneficiary group/enrollment group subsets.
*****;
GROUP1 = 0;
GROUP2 = 0;
GROUP3 = 0;
GROUP4 = 0;
GROUP5 = 0;
GROUP6 = 0;
GROUP7 = 0;
GROUP8 = 1; * EVERYONE;

IF (NXNS_COV IN (1,2,6) AND H10004>=2) THEN GROUP1 = 1;
IF (XENR_PCM IN (1,2,6) AND H10004>=2) THEN GROUP2 = 1;
/* JSO 04/05/2007 conditions to run RC type */
IF "&RCTYPE" = 'ReportCards' AND (XENR_PCM IN (3,7) AND H10004>=2) THEN GROUP3 = 1;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND ((XENR_PCM IN (3,7) AND H10004>=2) OR NXNS_COV
IN (3,9)) THEN GROUP3 = 1;
IF NXNS_COV IN (3,9) THEN GROUP4 = 1; /*JSO 08/24/2006, Deleted 4,5*//*JSO 07/30/2007,
Added 9*/
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN GROUP5 = 1;
/*JSO 07/30/2007, added DBENCAT conditions*/
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN GROUP6 = 1;
/*JSO 07/30/2007, added DBENCAT conditions*/
IF XBNFGRP IN (3,4) THEN GROUP7 = 1;

*****
* Recode variables with Never, Sometimes, Usually and Always:
* Recode Never & Sometimes (1 & 2) to 1.
* Recode Usually (3) to 2.
* Recode Always (4) to 3.
*****;

IF H10007 = 1 THEN R10007 = 1;
ELSE IF H10007 = 2 THEN R10007 = 1;
ELSE IF H10007 = 3 THEN R10007 = 2;
ELSE IF H10007 = 4 THEN R10007 = 3;
ELSE IF H10007 < 0 THEN R10007 = .;

IF H10010 = 1 THEN R10010 = 1;
ELSE IF H10010 = 2 THEN R10010 = 1;
ELSE IF H10010 = 3 THEN R10010 = 2;
ELSE IF H10010 = 4 THEN R10010 = 3;
ELSE IF H10010 < 0 THEN R10010 = .;

IF H10021 = 1 THEN R10021 = 1;

```

```
ELSE IF H10021 = 2 THEN R10021 = 1;
ELSE IF H10021 = 3 THEN R10021 = 2;
ELSE IF H10021 = 4 THEN R10021 = 3;
ELSE IF H10021 < 0 THEN R10021 = .;
```

```
IF H10022 = 1 THEN R10022 = 1;
ELSE IF H10022 = 2 THEN R10022 = 1;
ELSE IF H10022 = 3 THEN R10022 = 2;
ELSE IF H10022 = 4 THEN R10022 = 3;
ELSE IF H10022 < 0 THEN R10022 = .;
```

```
IF H10023 = 1 THEN R10023 = 1;
ELSE IF H10023 = 2 THEN R10023 = 1;
ELSE IF H10023 = 3 THEN R10023 = 2;
ELSE IF H10023 = 4 THEN R10023 = 3;
ELSE IF H10023 < 0 THEN R10023 = .;
```

```
IF H10024 = 1 THEN R10024 = 1;
ELSE IF H10024 = 2 THEN R10024 = 1;
ELSE IF H10024 = 3 THEN R10024 = 2;
ELSE IF H10024 = 4 THEN R10024 = 3;
ELSE IF H10024 < 0 THEN R10024 = .;
```

```
IF H10029 = 1 THEN R10029 = 1;
ELSE IF H10029 = 2 THEN R10029 = 1;
ELSE IF H10029 = 3 THEN R10029 = 2;
ELSE IF H10029 = 4 THEN R10029 = 3;
ELSE IF H10029 < 0 THEN R10029 = .;
```

```
IF H10033 = 1 THEN R10033 = 1;
ELSE IF H10033 = 2 THEN R10033 = 1;
ELSE IF H10033 = 3 THEN R10033 = 2;
ELSE IF H10033 = 4 THEN R10033 = 3;
ELSE IF H10033 < 0 THEN R10033 = .;
```

```
IF H10040 = 1 THEN R10040 = 1;
ELSE IF H10040 = 2 THEN R10040 = 1;
ELSE IF H10040 = 3 THEN R10040 = 2;
ELSE IF H10040 = 4 THEN R10040 = 3;
ELSE IF H10040 < 0 THEN R10040 = .;
```

```
IF H10041 = 1 THEN R10041 = 1;
ELSE IF H10041 = 2 THEN R10041 = 1;
ELSE IF H10041 = 3 THEN R10041 = 2;
ELSE IF H10041 = 4 THEN R10041 = 3;
ELSE IF H10041 < 0 THEN R10041 = .;
```

```
IF H10045 = 1 THEN R10045 = 1;
ELSE IF H10045 = 2 THEN R10045 = 1;
ELSE IF H10045 = 3 THEN R10045 = 2;
ELSE IF H10045 = 4 THEN R10045 = 3;
ELSE IF H10045 < 0 THEN R10045 = .;
```

```
IF H10046 = 1 THEN R10046 = 1;
ELSE IF H10046 = 2 THEN R10046 = 1;
ELSE IF H10046 = 3 THEN R10046 = 2;
ELSE IF H10046 = 4 THEN R10046 = 3;
ELSE IF H10046 < 0 THEN R10046 = .;
```

```
*****
* Recode variables to one missing condition ".".
* This also renames all the "H0xxxx" to "R0xxxx".
*****;
R10027 = H10027; IF R10027 < 0 THEN R10027 = .;
R10031 = H10031; IF R10031 < 0 THEN R10031 = .;
R10018 = H10018; IF R10018 < 0 THEN R10018 = .;
R10047 = H10047; IF R10047 < 0 THEN R10047 = .;
R10063 = H10063; IF R10063 < 0 THEN R10063 = .;
```

```
*****
* Create region and service affiliation dummies.
*****;
IF XSERVREG NE . THEN DO; /*JSO 08/24/2006, Changed 16 to 24*/
    ARRAY REGDUMS (24) REG01 REG02 REG03 REG04 REG05 REG06
```

```

REG07 REG08 REG09 REG10 REG11 REG12
REG13 REG14 REG15 REG16 REG17 REG18
REG19 REG20 REG21 REG22 REG23 REG24;

DO I = 1 TO 24;
  REGDUMS(I)=0;
END;
IF          XSERVREG= 1 THEN REG01 =1;
ELSE IF    XSERVREG= 2 THEN REG02 =1;
ELSE IF    XSERVREG= 3 THEN REG03 =1;
ELSE IF    XSERVREG= 4 THEN REG04 =1;
ELSE IF    XSERVREG= 5 THEN REG05 =1;
ELSE IF    XSERVREG= 6 THEN REG06 =1;
ELSE IF    XSERVREG= 7 THEN REG07 =1;
ELSE IF    XSERVREG= 8 THEN REG08 =1;
ELSE IF    XSERVREG= 9 THEN REG09 =1;
ELSE IF    XSERVREG=10 THEN REG10 =1;
ELSE IF    XSERVREG=11 THEN REG11 =1;
ELSE IF    XSERVREG=12 THEN REG12 =1;
ELSE IF    XSERVREG=13 THEN REG13 =1;
ELSE IF    XSERVREG=14 THEN REG14 =1;
ELSE IF    XSERVREG=15 THEN REG15 =1;
ELSE IF    XSERVREG=16 THEN REG16 =1;
ELSE IF    XSERVREG=17 THEN REG17 =1;
ELSE IF    XSERVREG=18 THEN REG18 =1;
ELSE IF    XSERVREG=19 THEN REG19 =1;
ELSE IF    XSERVREG=20 THEN REG20 =1;
ELSE IF    XSERVREG=21 THEN REG21 =1;
ELSE IF    XSERVREG=22 THEN REG22 =1;
ELSE IF    XSERVREG=23 THEN REG23 =1;
ELSE IF    XSERVREG=24 THEN REG24 =1;

ARRAY SRVDUMS (4) SRV01 SRV02 SRV03 SRV04;
DO I = 1 TO 4; /*Needed for consumer watch ONLY */
  SRVDUMS(I)=0;
END;
IF          XSERVAFF = 1 THEN SRV01 = 1;
ELSE IF    XSERVAFF = 2 THEN SRV02 = 1;
ELSE IF    XSERVAFF = 3 THEN SRV03 = 1;
ELSE IF    XSERVAFF = 4 THEN SRV04 = 1;

END;

RUN;

*****
* Recode item responses to proportional values using CONVERT.SAS.
*****;
%INCLUDE "CONVERT.SAS";

%CONT2(DSN=ENTIRE, NUM=4, Y=R10018 R10047 R10027 R10031);
%CONT3(DSN=ENTIRE, NUM=12, Y=R10007 R10010 R10029 R10033
                             R10021 R10022 R10023 R10024
                             R10040 R10041 R10045 R10046);

*****
* Sort the main file to reorder it by MPRID.
*****;
PROC SORT DATA=ENTIRE; BY MPRID; RUN;

*****
* Print the contents of ENTIRE dataset.
*****;
PROC CONTENTS DATA=ENTIRE;
  TITLE2 'Contents of ENTIRE';
RUN;

*****
* Print some of the recoded records.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR MPRID
      FIELDAGE /*MJS 01/26/04*/

```

```

XTNEXREG
XSERVAFF
XSERVREG
USA
ENBGSMPL
XSEXA
STRATUM /*KRR 04/03/2006 Changed from ADJ_CELL*/
XINS_COV
NXNS_COV /*JSO 04/26/2007, added for reservists logic*/
DBENCAT /*JSO 04/26/2007, added for reservists logic*/
XENR_PCM
&WGT.
;
RUN;

*****
* Print some of the recoded records.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR FIELDAGE /*MJS 01/26/04*/
    AGE1824
    AGE2534
    AGE3544
    AGE4554
    AGE5564
    AGE6574
    AGE75UP

    XSEXA
    FEMALE

    ENBGSMPL
    XINS_COV
    NXNS_COV
    XENR_PCM
    XBNFGRP
    GROUP1
    GROUP2
    GROUP3
    GROUP4
    GROUP5
    GROUP6
    GROUP7
;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded question variables';
  VAR H10007 R10007
    H10010 R10010
    H10021 R10021
    H10022 R10022
    H10023 R10023
    H10024 R10024
    H10029 R10029
    H10033 R10033
    H10040 R10040
    H10041 R10041
    H10045 R10045
    H10046 R10046
    H10018 R10018
    H10027 R10027
    H10031 R10031
    H10047 R10047
    H10063 R10063
;
RUN;

/*JSO 08/24/2006, Changed 16 to 24*/
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded REGION variables';
  VAR XSERVREG

```



```

REG01
REG02
REG03
REG04
REG05
REG06
REG07
REG08
REG09
REG10
REG11
REG12
REG13
REG14
REG15
REG16
REG17
REG18
REG19
REG20
REG21
REG22
REG23
REG24;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded service affiliation variables';
  VAR XSERVREG
      XSERVAFF
      XOCONUS /*JSO 08/24/2006, Changed Overseas Regions*/
      SRV01
      SRV02
      SRV03
      SRV04
  ;
RUN;

*****
* Create the 7 subgroups for processing by STEP2.SAS.
*****;
DATA OUT.GROUP1
      OUT.GROUP2
      OUT.GROUP3
      OUT.GROUP4
      OUT.GROUP5
      OUT.GROUP6
      OUT.GROUP7
      OUT.GROUP8;

  SET ENTIRE;

  DROP
    H10007
    H10010
    H10021
    H10022
    H10023
    H10024
    H10029
    H10033
    H10040
    H10041
    H10045
    H10046
    H10018
    H10027
    H10031
    H10047
    H10063
  ;
  IF GROUP1 = 1 THEN OUTPUT OUT.GROUP1;
  IF GROUP2 = 1 THEN OUTPUT OUT.GROUP2;

```

```
IF GROUP3 = 1 THEN OUTPUT OUT.GROUP3;  
IF GROUP4 = 1 THEN OUTPUT OUT.GROUP4;  
IF GROUP5 = 1 THEN OUTPUT OUT.GROUP5;  
IF GROUP6 = 1 THEN OUTPUT OUT.GROUP6;  
IF GROUP7 = 1 THEN OUTPUT OUT.GROUP7;  
OUTPUT OUT.GROUP8;  
  
RUN;
```

G.1.B Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\CONVERT.SAS - CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES.

```

*****
*
* PROGRAM:   CONVERT.SAS
* TASK:     DOD HEALTH CARE SURVEY ANALYSIS (8687-330)
* PURPOSE:  CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES FOR CONSISTENCY
*           WITH THE TOPS SURVEY.
* WRITTEN:  October 2000 BY ERIC SCHONE
*
* MODIFIED: October 2000 BY KEITH RATHBUN, Added PROLOG. Also, added DSN
*           to argument lists.
*
* INPUTS:   1) User-specified SAS Dataset
*
* OUTPUTS:  1) User-specified SAS Dataset with recoded values
*
* NOTES:
*
* 1) Arguments for the CONT1-CONT3 macros are as follows:
*   a) SAS dataset name (dsn)
*   b) Number of variables to be converted (num)
*   c) List of variables to be converted (y)
* 2) These macros assume that the response items have already been
*   converted/recoded to CAHPS scales.
*
*****
* CONT1 - Convert big problem, small problem, not a problem questions to
*         proportional values.
*****;
%macro cont1(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i = 1 to &num;
    if vars(i) ne . and vars(i) ne 3 then vars(i) = 0;
    if vars(i) = 3 then vars(i) = 1;
  end;
run;
%mend cont1;

*****
* CONT2 - Convert rating questions to proportional values.
*****;
%macro cont2(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to &num;
    if vars(i) ne . and vars(i) < 8 then vars(i) = 0;
    if vars(i) in (8,9,10) then vars(i) = 1;
  end;
run;
%mend cont2;

*****
* CONT3 - Convert Never, Sometimes, Usually, Always questions to
*         proportional values.
*****;
%macro cont3(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to &num;
    if vars(i) ne . and vars(i) >= 2 then vars(i) = 2;
    vars(i) = vars(i) - 1;
  end;
run;
%mend cont3;

```

**G.1.C Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\STEP2Q.SAS - CALCULATE CAHPS
ADJUSTED SCORES - RUN QUARTERLY.**

```

*****
*
* Project: DoD - Quarterly Adult Report Cards
* Program: STEP2Q.SAS
* Purpose: Generate risk-adjusted CAHPS Scores for Adult Report Card.
*
* Requires: Program STEP1Q.SAS must be run prior to running this program.
*
* The adult report card contains a large number of risk-adjusted scores.
* Some scores are calculated from responses to individual survey questions.
* Composite scores are calculated by combining scores from individual
* questions. The scores then are compared with external civilian
* benchmarks. The programming tasks involved in building the report
* card are:
*
*     1) Preparing data for analyses
*     2) Estimating risk adjustment models
*     3) Calculating risk-adjusted values and variances
*     4) Calculating benchmarks
*     5) Comparing risk-adjusted values to benchmarks
*         and hypothesis testing
*
*
* Previous Program: STEP1Q.SAS
*
* Modified: 1) 04/10/02 By Mike Scott, Updated variable names for 2002
*            survey.
*            2) 07/11/02 By Mike Scott, Changed R00077 to R04075, since
*            H02077 (health status) is back and was recoded to R04075
*            in STEP1Q.
*            3) 03/21/03 By Mike Scott, Updated variable names for 2003
*            survey.
*            4) 03/24/04 By Mike Scott, Updated for 2004 survey.
*            5) 09/24/2004 By Regina Gramss, Updated to use XTNEKREG instead of XREGION
*            and to update for Q3 2004 data.
*            6) 01/25/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
*            XTNEKREG to include service affiliation.
*            7) 04/2005 By Regina Gramss, Updated field names from 2004 to 2005
*            8) 07/2005 By Regina Gramss, Updated for Q2 2005
*            9) 10/2005 By Regina Gramss, Updated for Q3 2005
*            10) 12/2005 By Regina Gramss, Updated for Q4 2005
*            11) March 21, 2006 by Keith Rathbun, updated variable names
*            for Q2 FY 2006.
*            12) 07/2006 By Justin Oh, Updated for Q3 FY 2006
*            13) Aug 24, 2006 by Justin Oh, changed overseas to 3 regions.
*            Regions have been changed from 16 categories to 24.
*            14) April 7, 2009 by Mike Rudacille, changed variable names to reflect
*            modifications to beneficiary reports necessary for V4
*            15) June 22, 2009 By Keith Rathbun, Change weight variable from
*            FWRWT_V4 back to FWRWT.
*            16) December 17, 2010 by Emma Ernst, updated Variables names for
*            Q1FY2010.
*
*****;
OPTIONS NOCENTER LS=132 PS=79 SOURCE NOOVP COMPRESS=YES;
LIBNAME IN1 "DATA";
LIBNAME OUT "DATA";
LIBNAME OUT2 "DATA\ADULTHATFILES";
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";

/* RSG 02/2005 hard coded skelreg so data does not have to be copied from quarter to quarter*/
/* JSO 08/24/2006, Changed from 16 to 24 Regions */

DATA SKELREG (COMPRESS=NO);
INPUT XSERVREG;
DATALINES;
1
2
3
4

```

```

5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
;
RUN;

*****
*****
* Set GLOBAL parameters here.
*****
*****;

*****
* Set the number of Dependent variables to process.
* One does not need to start at 1, but the max must be >= min.
*****;
%LET MIN_VAR = 1;
%LET MAX_VAR = 16;

*****
* Set the number of subgroups to process.
*****;
%LET MIN_GRP = 1;
%LET MAX_GRP = 8;

*****
* These are expected to remain the same for a particular dependent
* variable run.
*****;
%LET WGT = FWRWT;
%LET IND_VAR1 = R10063;
%LET IND_VAR2 = ; * FEMALE;
%LET IND_VAR3 = ; * SREDHIGH;
%LET DEBUGFLG = 0; * Set to 1 if you want extra printout;

%LET TITL1 = Prime Enrollees;
%LET TITL2 = Enrollees w/military PCM;
%LET TITL3 = Enrollees w/civilian PCM;
%LET TITL4 = Nonenrollees;
%LET TITL5 = Active Duty;
%LET TITL6 = Active Duty Dependents;
%LET TITL7 = Retirees and Dependents;
%LET TITL8 = All Beneficiaries;

*****
* GETTING NEEDED CARE.
*****;
%LET DEPVAR1 = R10029;
%LET DEPVAR2 = R10033;

*****
* GETTING NEEDED CARE QUICKLY.
*****;
%LET DEPVAR3 = R10007;
%LET DEPVAR4 = R10010;

```

```

*****
* HOW WELL DOCTORS COMMUNICATE.
*****;
%LET DEPVAR5 = R10021;
%LET DEPVAR6 = R10022;
%LET DEPVAR7 = R10023;
%LET DEPVAR8 = R10024;

*****
* CUSTOMER SERVICE.
*****;
%LET DEPVAR9 = R10040;
%LET DEPVAR10 = R10041;

*****
* CLAIMS PROCESSING.
*****;
%LET DEPVAR11 = R10045;
%LET DEPVAR12 = R10046;

*****
* RATING ALL HEALTH CARE: 0 - 10.
*****;
%LET DEPVAR13 = R10018;

*****
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%LET DEPVAR14 = R10047;

*****
* RATING OF PERSONAL DR: 0 - 10.
*****;
%LET DEPVAR15 = R10027;

*****
* SPECIALITY CARE: 0 - 10.
*****;
%LET DEPVAR16 = R10031;

%MACRO SCORE;
*****;
* use this macro for all groups;
* super region variables are to be used ;
*****;
%PUT *****;
%PUT STARTING MACRO SCORE;
%PUT "GROUP = " GROUP&IGRP;
%PUT "TITLE = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR = " &&DEPVAR&IVAR;
%PUT "IND_VAR1 = " &IND_VAR1;
%PUT "IND_VAR2 = " &IND_VAR2;
%PUT "IND_VAR3 = " &IND_VAR3;
%PUT "WGT = " &WGT;
%PUT *****;

*-----;
* If the current group is 1 use the skeleton files;
* else used the previous groups output file;
* The mrgfile is added to by each subgroup;
*-----;
%LET RMRGFILE = OUT.R_&&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET RMRGFILE = SKELREG;

* run regression using the region level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
    TITLE2 "Regression Model for GROUP&igrp for regions";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    WEIGHT &WGT;
    %INCLUDE 'REGSREG.INC';
    OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP_CELL

```

```

                PRED&IGRP RESID&IGRP XSERVREG &&DEPVAR&IVAR)
P = PRED&IGRP
R = RESID&IGRP;

RUN;

* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
    TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR: file with predicted values and the RESID&IGRP";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    VAR MPRID XSERVREG &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;
  RUN;

  PROC PRINT DATA=BETAS;
    TITLE2 "BETAS: file with coefficients";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%END;

*-----;
*----- get the standard err/variance ----;
*-----;
%LET DEP = &&DEPVAR&IVAR;
%R_SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);

* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
  SET MEANFILE;
  IF _N_ = 1 THEN SET BETAS(DROP = _TYPE_);
  %INCLUDE 'RISKARRY.INC';
  %INCLUDE 'RISKMEAN.INC';
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN COEFFS(I) = 0;
    IF MEANS(I) = . THEN MEANS(I) = 0;
    ADJUST + ( COEFFS(I) * MEANS(I) );
  END;
  ADJUST = ADJUST + INTERCEPT;
RUN;

* add the region coefficients to the adjusted value from above;
* output one record per region with the region;
* level adjusted scores;
DATA COEFFREG(KEEP=XSERVREG NEWADJUST);
  SET ADJUST;
  %INCLUDE 'REGARRAY.INC';
  LENGTH NAME $8;
  DO I=1 TO DIM(REGRHS);
    CALL VNAME(REGRHS(I),NAME);
    XSERVREG=INPUT(SUBSTR(NAME,4,2),2.);
    IF REGRHS(I) = . THEN REGRHS(I) = 0;
    NEWADJUST=ADJUST + REGRHS(I);
    OUTPUT;
  END;
RUN;

* sum of wgts for each region;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
  CLASS XSERVREG;
  VAR &WGT;
  OUTPUT OUT=REG_WGTS (DROP = _TYPE_ _FREQ_) N=REGCNT&IGRP SUM=REGWGT&IGRP;
RUN;

* merge the COEFFREG file with the region;
* adjusted scores to the region level total weight;
* merge by the region. Creates a region level;

```

```

* file with the total sample weight of the region;
DATA COEFFREG;
    MERGE COEFFREG(IN=IN1)
          REG_WGTS(IN=IN2  KEEP=XSERVREG REGCNT&IGRP REGWGT&IGRP);
    BY XSERVREG;
    IF IN1;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=MEANFILE;
        TITLE2 'Print of MEANFILE';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=ADJUST;
        TITLE2 'Print of ADJUST';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=COEFFREG;
        TITLE2 'Print of COEFFREG: Region Adjusted Scores';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=REG_WGTS;
        TITLE2 'Print of REG_WGTS: Region Area Sum of WGTS';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=COEFFREG;
        TITLE2 'Print of COEFFREG: Regions Adjusted Scores - with sum of wgts and region';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

* Calculate region level adjusted scores from the;
* region level adjusted scores in COEFFREG;
PROC MEANS DATA=COEFFREG NWAY NOPRINT;
    WEIGHT REGWGT&IGRP;
    CLASS XSERVREG;
    VAR NEWADJUST;
    OUTPUT OUT=REGFILE1 (DROP = _TYPE_ _FREQ_) MEAN=ADJ&IGRP;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=REGFILE1;
        TITLE2 'Print of REGFILE1: Region Scores';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

* merge the previous groups region results (if any);
* with the region level std errs and the region;
* level results from catchment results collapsed to region;
DATA OUT.R_&DEPVAR&IVAR;
    MERGE &RMRGFILE(IN=INS)
          R&IGRP&&DEPVAR&IVAR
          REG_WGTS(KEEP = REGCNT&IGRP REGWGT&IGRP XSERVREG)
          REGFILE1(KEEP = ADJ&IGRP XSERVREG);
    BY XSERVREG;
    DEPENDNT = "&&DEPVAR&IVAR";
    IF INS;
RUN;

* merge the previous groups regional results (if any);
* with the region level std err and the region;
* level results from the current group/dependent var;
DATA OUT.R_&DEPVAR&IVAR;
    MERGE OUT.R_&DEPVAR&IVAR(IN=INS)
          R&IGRP&&DEPVAR&IVAR /*KRR - removed perm dataset ref to OUT2 */
          REG_WGTS

```



```

        REGFILE1;
    BY XSERVREG;
    DEPENDNT = "&&DEPVAR&IVAR";
    IF INS;
RUN;

PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
    TITLE2 "Print of XSERVREG variables in &&DEPVAR&IVAR";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;
%MEND SCORE;

%MACRO MAKE_INC;
*****;
* creates include files for later Procs;
* Needs to be run each time. Called ;
* in the outer (beneficiary loop). ;
* I chose this method because it was ;
* clearer(to me at least). ;
* This macro needs to be run once per ;
* Dep var per subgroup. ;
*****;

* Drop records where the dependent var is missing;
* Drop records with missing catchment or region values;
DATA GROUP&IGRP;
    SET IN1.GROUP&IGRP;
    IF &&DEPVAR&IVAR NOT = .;
RUN;

DATA _NULL_;
SET GROUP&IGRP END = EOF;
IF &&DEPVAR&IVAR NOT = .;

ARRAY AGEcnt(7) 8 aCNT1 - aCNT7;
RETAIN AGEcnt 0;
RETAIN CNT 0;
ARRAY AGENAM(7) $8 AGENAM1 - AGENAM7;
ARRAY AGENAMX(7) $8 AGENAMX1 - AGENAMX7;
RETAIN AGENAM;
RETAIN AGENAMX;
ARRAY REGcnt(24) 8 REGcnt01- REGcnt24; /*JSO 08/24/2006, Changed from 16 to 24*/
RETAIN CATcnt 0;
RETAIN REGcnt 0;

* create a name array for the parent age dummies;
IF _N_ = 1 THEN DO;
    AGENAM(1) = "AGE1824";
    AGENAM(2) = "AGE2534";
    AGENAM(3) = "AGE3544";
    AGENAM(4) = "AGE4554";
    AGENAM(5) = "AGE5564";
    AGENAM(6) = "AGE6574";
    AGENAM(7) = "AGE75UP";
END;

* total record count;
CNT + 1;

* count records in each age group;
* we will use only age groups with more;
* than 2 obs;
IF AGE1824 = 1 THEN AGEcnt(1) + 1;
IF AGE2534 = 1 THEN AGEcnt(2) + 1;
IF AGE3544 = 1 THEN AGEcnt(3) + 1;
IF AGE4554 = 1 THEN AGEcnt(4) + 1;
IF AGE5564 = 1 THEN AGEcnt(5) + 1;
IF AGE6574 = 1 THEN AGEcnt(6) + 1;
IF AGE75UP = 1 THEN AGEcnt(7) + 1;

* count records in each XSERVREG group;
* we will only use XSERVREGs with more than 2 obs;
* I am using the region value as the subscript;
* to make the code simpler and more readable;

```

```

IF 1<= XSERVREG <=24 THEN DO; /*JSO 08/24/2006, Changed from 16 to 24*/
  REGCNT(XSERVREG) = REGCNT(XSERVREG) + 1;
END;

IF EOF THEN GOTO ENDFILE;
RETURN;

ENDFILE:
* create a title common to all procs in the current group;
TITLE " &&DEPVAR&IVAR &&TITL&IGRP";

* display counts in the log;
%IF &DEBUGFLG > 0 %THEN %DO;
  PUT ' ';
  PUT 'AT EOF: ';
  PUT "TOTAL CNT = " CNT;
  PUT AGENAM(1) " " AGECNT(1)=;
  PUT AGENAM(2) " " AGECNT(2)=;
  PUT AGENAM(3) " " AGECNT(3)=;
  PUT AGENAM(4) " " AGECNT(4)=;
  PUT AGENAM(5) " " AGECNT(5)=;
  PUT AGENAM(6) " " AGECNT(6)=;
  PUT AGENAM(7) " " AGECNT(7)=;
  PUT " ";

  DO I = 1 TO 24; /*JSO 08/24/2006, Changed from 16 to 24*/
    IF(REGCNT(I) > 0) THEN DO;
      PUT 'REG' I Z2. REGCNT(I) 6.;
    END;
  END;
  PUT ' ';

%END; *** of debug test;

*-----;
* This include is for the regression using regions;
* in this case we drop the last XSERVREG;
FILE 'REGSREG.INC';
PUT @6 "MODEL &&DEPVAR&IVAR = ";
IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */
IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */

CNT2 = 0;
* setup an array of those age groups that have > 1 obs;
DO I = 1 TO 7;
  IF AGECNT(I) > 1 THEN DO;
    CNT2 + 1;
    AGENAMX(CNT2) = AGENAM(I);
  END;
END;

* now drop the last category to create;
* an omitted category which is required;
* to solve the regression properly;
DO I = 1 TO CNT2-1;
  PUT @12 AGENAMX(I);
END;

* ditto for the catchment areas with > 0 obs;
* in this case we drop the the first USABLE category;
* this is not consistent with the catchment area code;
* but this is the method that Portia used;
FIRST = 0; /*JSO 08/24/2006, Changed from 16 to 24*/
DO I = 1 TO 24; * skip the 1st region with 1+ obs;
  IF REGCNT(I) > 0 THEN DO;
    IF FIRST = 1 THEN PUT @12 'REG' I Z2.;
    FIRST = 1;
  END;
END;
PUT @11 ' ';

```

```

*-----;
* now create the complete var statement;
* for the Proc MEANS used to replace the;
* independent variables missing values;
* we assume the age groups will always be used;
* These are also called the RISK FACTORS;
FILE 'RISKVARS.INC';
PUT @10 "VAR";
DO I = 1 TO CNT2;
    PUT @12 AGENAMX(I);
END;

* not all the other dependent variables will be used;
* only write them out if they are not null;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR1";
END;

IF "&IND_VAR2" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR2";
END;

IF "&IND_VAR3" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR3";
END;
PUT @11 ' ';

*-----;
* create an ARRAY statement of the desired risk factors;
* called adjusters in the specs and in the code;
FILE 'RISKARRY.INC';
PUT @10 "ARRAY COEFFS(*) $8";
DO I = 1 TO CNT2;
    PUT @12 AGENAMX(I);
END;

CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR1";
END;

IF "&IND_VAR2" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR2";
END;

IF "&IND_VAR3" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR3";
END;
PUT @11 ' ';

*-----;
* create an ARRAY of mean names for the output;
* from a proc MEANS of the Risk Factors in RISKARRY;
FILE 'RISKMEAN.INC';
IND_CNT = CNT2 + CNT3;
PUT @6 "ARRAY MEANS(*) $8";
DO I = 1 TO IND_CNT;
    PUT @12 "MEAN" I Z2.;
END;
PUT @11 ' ';

*-----;
* create the equivalent of the following statement;
* OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN=MEAN1-MEAN&MEAN_CNT;
FILE 'MEANFILE.INC';

```

```

PUT @6 "OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = ";
DO I = 1 TO IND_CNT;
  PUT @12 "MEAN" I Z2.;
END;
PUT @11 ' ';

*-----;
* create a super region area array;
* with at least ONE obs;
FILE 'REGARRAY.INC';
PUT @10 "ARRAY REGRHS(*) $8";
DO I = 1 TO 24; /*JSO 08/24/2006, Changed from 16 to 24*/
  IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
    PUT @16 'REG' I Z2.;
  END;
END;
PUT @11 ' ';
RUN;

* Create the means of the adjuster variables;
* They will be used to replace missing adjuster variables;
* calculate weighted means;
PROC MEANS DATA=GROUP&IGRP;
  WEIGHT &WGT;
  %INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=MEANFILE;
    TITLE2 "Print of MEANFILE for Risk Adjuster variables";
    TITLE3 "Beneficiary group&igrp: &TITL&IGRP";
  RUN;
%END;

DATA GROUP&IGRP;
  SET GROUP&IGRP;
  IF _N_ = 1 THEN SET MEANFILE;
  %INCLUDE 'RISKARRY.INC';
  %INCLUDE 'RISKMEAN.INC';
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN DO;
      COEFFS(I) = MEANS(I);
    END;
  END;
RUN;
/* PROC MEANS DATA=out.group8;
  WEIGHT &WGT;
  %INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN;*/
%MEND MAKE_INC;

%MACRO R_SUDAAN(INFILE);
*****
* Use this macro to create standard err (variances)
* for XSERVREGs.
*****;
%PUT *****;
%PUT STARTING MACRO R_SUDAAN (XSERVREG);
%PUT *****;

DATA &INFILE;
  SET &INFILE;
  IF 1<= XSERVREG <= 24; /*JSO 08/24/2006, Changed from 16 to 24*/
RUN;

* Sort data by TMP_CELL;
PROC SORT DATA=&INFILE;
  BY TMP_CELL;
RUN;

```

```

%IF &DEBUGFLG > 5 %THEN %DO;
  PROC PRINT DATA=&INFILE(OBS=5);
    TITLE2 'Print of the input file to SUDAAN (XSERVREG)';
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;
%END;

* Calculate values for super regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
  WEIGHT &WGT;
  SETENV DECWIDTH=4;
  NEST TMP_CELL / missunit;
  VAR RESID&IGRP;
  TABLES XSERVREG;
  SUBGROUP XSERVREG;
  LEVELS 24; /*JSO 08/24/2006, Changed from 16 to 24*/
  OUTPUT SEMEAN
    / REPLACE TABLECELL=DEFAULT
      FILENAME=RS&DEP;
  RUN;

  DATA R&IGRP&&DEPVAR&IVAR;
    SET RS&DEP;
    KEEP XSERVREG SEMEAN;
    IF SEMEAN NE .;
    RENAME SEMEAN = SEMEAN&IGRP;
  RUN;

  PROC PRINT DATA=R&IGRP&&DEPVAR&IVAR;
    TITLE2 "Print XSERVREG DESCRIPT DATA=R&IGRP&&DEPVAR&IVAR";
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;

%MEND R_SUDAAN;

%*****;
%* call the macros;
%*****;

%MACRO MAINLOOP(MIN_VAR,MAX_VAR,MIN_GRP,MAX_GRP);
  %* loop over the set of dependent variables;
  %DO IVAR = &MIN_VAR %TO &MAX_VAR;
    %DO IGRP = &MIN_GRP %TO &MAX_GRP;
      %MAKE_INC;
      %SCORE;
    %END;
  %END;
%END;

%MEND;

%MAINLOOP(&MIN_VAR,&MAX_VAR,&MIN_GRP,&MAX_GRP);

```

G.1.D Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\REGRSREG.INC - INCLUDE FILE1 IN
STEP2Q.SAS.

```
MODEL R10031 =  
  R10063  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  REG02  
  REG03  
  REG04  
  REG05  
  REG06  
  REG07  
  REG08  
  REG09  
  REG10  
  REG11  
  REG12  
  REG13  
  REG14  
  REG15  
  REG16  
  REG17  
  REG18  
  REG19  
  REG20  
  REG21  
  REG23  
  REG24  
;
```

G.1.E Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\RISKARRY.INC - INCLUDE FILE2 IN
STEP2Q.SAS.

```
ARRAY COEFFS(*) $8  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R10063  
;
```

G.1.F Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\RISKMEAN.INC - INCLUDE FILE3 IN STEP2Q.SAS.

```
ARRAY MEANS(*) $8  
  MEAN01  
  MEAN02  
  MEAN03  
  MEAN04  
  MEAN05  
  MEAN06  
;
```


G.1.G Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\REGARRAY.INC - INCLUDE FILE4 IN STEP2Q.SAS.

```
ARRAY REGRHS(*) $8  
  REG01  
  REG02  
  REG03  
  REG04  
  REG05  
  REG06  
  REG07  
  REG08  
  REG09  
  REG10  
  REG11  
  REG12  
  REG13  
  REG14  
  REG15  
  REG16  
  REG17  
  REG18  
  REG19  
  REG20  
  REG21  
  REG23  
  REG24  
;
```

G.1.H Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\RISKVARS.INC - INCLUDE FILE5 IN STEP2Q.SAS.

```
VAR  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R10063  
;
```

G.1.I Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\MEANFILE.INC - INCLUDE FILE6 IN STEP2Q.SAS.

```
OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN =  
    MEAN01  
    MEAN02  
    MEAN03  
    MEAN04  
    MEAN05  
    MEAN06  
    ;
```

**G.1.J Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\COMPOSIT.SAS - CALCULATE CAHPS
COMPOSITE SCORES - RUN QUARTERLY.**

```

*****
* Project: DoD - Quarterly Adult Report Cards
* Program: COMPOSIT.SAS
* Purpose: Generate Quarterly Adult Report Card composite scores
* Requires: Programs STEP1Q.SAS and STEP2Q.SAS must be run prior
*           to this program.
*
* Modified: 1) 02/27/2001 By Keith Rathbun, Small changes to input DSNs to
*           accommodate the move of ALLSCORE.SAS functionality into the
*           STEP2Q.SAS program.
*           2) 01/08/2002 By Daniele Beahm, Changed versions in libname statements
*           so program can be run with SAS v8 and still produce SAS v612 datasets.
*           3) 04/10/2002 By Mike Scott, Updated variable names for 2002
*           survey.
*           4) 03/21/2003 By Mike Scott, Updated variable names for 2003
*           survey.
*           5) 03/24/2004 By Mike Scott, Updated for 2004.
*           6) 06/15/2004 By Regina Gramss, Update for Q2, added in
*           codes to compensate for any negative trend and to
*           print out the number of nonmissing data producing the
*           negative trend - those equal to or more than 30 nonmissing
*           data need to be further evaluated.
*           7) 09/2004 By Regina Gramss, Update for Q3, added in codes to
*           use XTNEXREG field instead of XREGION.
*           8) 01/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
*           XTNEXREG, to incorporate service affiliation.
*           9) 04/2005 By Regina Gramss, Updated field names from 2004 to 2005.
*           10) 01/31/2006 By Regina Gramss, deleted following lines for "data_r_&var1":
*           "%if &i~=8 %then %do" (keep set statement then delete the following:)
*           "%end
*           %else %do
*           set in2.h5&var1(rename=(resid5=r_&var1)) in2.h6&var1(rename=(resid6=r_&var1))
in2.h7&var1(rename=(resid7=r_&var1))
*           %end"
*           11) 03/21/2006 By Keith Rathbun, Updated variable names for 2003
*           survey.
*           12) 04/30/2008 By Justin Oh, Added Eric's upcase command to _name_ on line 204
*           13) April 7, 2009 by Mike Rudacille, changed variable names to reflect
*           modifications to beneficiary reports necessary for V4
*           14) June 22, 2009 By Keith Rathbun, Change weight variable from
*           FWRWT_V4 back to FWRWT.
*           15) December 17, 2009 By Emma Ernst, updated variables names for Q1FY2010
*
*****;
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=YES NOFMTRR;
libname in "data";
libname in2 "data\adulthatfiles";
libname out "data";
LIBNAME LIBRARY "..\..\..\DATA\FINAL\FMTLIB";

%LET WGT = FWRWT;

%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,QCOUNT=);

DATA _NULL_;
%IF "&TYPE" = "R" %THEN %DO;
CALL SYMPUT ('BYVAR','XSERVREG');
%END; %ELSE
%IF "&TYPE" = "C" %THEN %DO;
CALL SYMPUT ('BYVAR','CACSMPL');
%END;

*****;
* Create a Composite Score ;
*****;
DATA _NULL_;
FILE 'FILES.INC';
PUT @6 'SET';
IF "&VAR1" NE '' THEN PUT @8 "IN.&TYPE._&VAR1";
IF "&VAR2" NE '' THEN PUT @8 "IN.&TYPE._&VAR2";

```

```

        IF "&VAR3" NE '' THEN PUT @8 "IN.&TYPE._&VAR3";
        IF "&VAR4" NE '' THEN PUT @8 "IN.&TYPE._&VAR4";
        PUT @8 ' ';
RUN;

DATA COMPOS&COMPOS;
    LENGTH DEPENDNT $ 8;
    %INCLUDE 'FILES.INC';
    DEPENDNT = "&TYPE.COMPOS&COMPOS";
RUN;

PROC SORT DATA=COMPOS&COMPOS;
    BY &BYVAR;
RUN;

PROC PRINT DATA=COMPOS&COMPOS(OBS=60);
    TITLE "Print of COMPOS&COMPOS after sort";
RUN;

DATA COMPOS&COMPOS;
    SET COMPOS&COMPOS;
    BY &BYVAR;
    %IF "&TYPE" = "R" %THEN %DO;
        ARRAY N(*) REGCNT1 - REGCNT8;
        ARRAY W(*) REGWGT1 - REGWGT8;
        ARRAY TN(*) TOTCNT1 - TOTCNT8;
        ARRAY TW(*) TOTWGT1 - TOTWGT8;
    %END; %ELSE
    %IF "&TYPE" = "C" %THEN %DO;
        ARRAY N(*) CATCNT1 - CATCNT8;
        ARRAY W(*) CATWGT1 - CATWGT8;
        ARRAY TN(*) TOTCNT1 - TOTCNT8;
        ARRAY TW(*) TOTWGT1 - TOTWGT8;
    %END;
    ARRAY ADJ(*) ADJ1 - ADJ8;
    ARRAY TOTADJ(*) TOTADJ1 - TOTADJ8;
    ARRAY AVGADJ(*) AVJADJ1 - AVJADJ8;
    RETAIN TOTADJ TN TW;
    RETAIN AVGADJ;

    IF FIRST.&BYVAR THEN DO;
        DO I = 1 TO DIM(TOTADJ);
            TOTADJ(I) = 0; TN(I)=0; TW(I)=0;
        END;
    END; DROP I;

    PUT ' ';
    PUT ' --- STARTING LOOP1: ' &BYVAR=;
    DO I = 1 TO DIM(TOTADJ);
        PUT I= ADJ(I)=;
        IF ADJ(I) NE . THEN DO;
            TOTADJ(I) = TOTADJ(I) + ADJ(I);
            TN(I)=TN(I)+N(I);
            TW(I)=TW(I)+W(I);
        END;
        PUT I= ADJ(I)= TOTADJ(I)=;
    END;

    PUT ' ';
    PUT ' --- STARTING LOOP2: ' &BYVAR=;
    IF LAST.&BYVAR THEN DO;
        DO I = 1 TO DIM(TOTADJ);
            PUT I= ADJ(I)= TOTADJ(I)= AVGADJ(I)=;
            AVGADJ(I) = TOTADJ(I)/&QCOUNT;
            adj(i)=avgadj(i);
            N(I)=TN(I)/&QCOUNT;
            W(I)=TW(I)/&QCOUNT;
        END;
        OUTPUT;
    END;
RUN;

```

```

%do i=1 %to 8;
/* Collect Standard Errors and residuals from variables in composite */
%if &type=R|(&i=1|&i=2|&i>4) %then %do;
%if &var1~= %then %do;
%let n=r_&var1;
%let m=s_&var1;

data s_&var1(rename=(semean&i=s_&var1));
set in.&type._&var1(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var1;
set in2.h&i.&var1(rename=(resid&i=r_&var1));
proc sort data=r_&var1; by mprid;
%end;
%if &var2~= %then %do;
%let n=%str(&n r_&var2);
%let m=%str(&m s_&var2);
data s_&var2(rename=(semean&i=s_&var2));
set in.&type._&var2(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var2;
set in2.h&i.&var2(rename=(resid&i=r_&var2));
proc sort data=r_&var2; by mprid;
%end;
%if &var3~= %then %do;
%let n=%str(&n r_&var3);
data s_&var3(rename=(semean&i=s_&var3));
set in.&type._&var3(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var3;
set in2.h&i.&var3(rename=(resid&i=r_&var3));
proc sort data=r_&var3; by mprid;
%let m=%str(&m s_&var3); %end;

%if &var4~= %then %do;
%let n=%str(&n r_&var4);
data s_&var4(rename=(semean&i=s_&var4));
set in.&type._&var4(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var4;
set in2.h&i.&var4(rename=(resid&i=r_&var4));
%let m=%str(&m s_&var4);
proc sort data=r_&var4; by mprid;
%end;
/* Merge residual files and estimate correlations */
data infile;
merge &n; by mprid;
proc sort; by &byvar;
proc corr outp=outf noprint;
by &byvar;
var &n;
weight &WGT.;
data outf;
set outf; by &byvar;
where _type_='CORR';
/* sum standard error of a row variable times correlation times standard error of each column
variable, then sum sums and take square root, divide by number of variables */
data final;
merge &m outf; by &byvar;
data final;
set final; by &byvar;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
%do j=1 %to &qcount;
if upcase(_name_)=upcase("R_&var&j") then
sde=sum(sde,r_val(i)*s_&var&j*s_val(i));
%end;
end;
data sefin&compos._&i ERROR;
set final;
by &byvar;

```

```

if first.&byvar then tv=0;
tv+sde;
if last.&byvar then do;
  if tv >= 0 then sde&i=(tv**.5)/&qcount; /* RSG 06/22/2004 change to only do the power
calculation if the tv value is nonnegative*/
  else if tv < 0 then do; /* RSG 06/22/2004 those with negative trend is set aside to print
out*/
    output error; /* and determine whether it is from nonmissing data
of 30 or more*/
    sde&i=.;
  end;
  output sefin&compos._&i;
end;

run;
/* RSG 06/22/2004 - count how many nonmissing values are in the trend data
to determine whether the negative trend in above datastep
(tv < 0) is something to be concerned about */
proc means data=infile noprint;
by &byvar;
var &n;
output out=miss (drop=_type_ _freq_) n=;
data error2;
merge error(in=a drop=&n) miss(in=b);
by &byvar;
if a;
run;
proc print data=error2; /* RSG 06/22/2004 print out negative trend data and count of nonmissing
data*/
var &byvar tv &n;
title "ERROR - NEGAVTIVE TREND FOR &N IN GROUP=&I. AND COMPOSE=&COMPOS.";
run;
title ' '; /** RSG 06/22/2004 - BLANK OUT TITLE FOR NEXT LOOP **/

%if &i=1 %then %do;
data sefin&compos;
set sefin&compos._1(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;
%else %do;
data sefin&compos;
merge sefin&compos sefin&compos._&i(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;

%end;
%end;

data out.&type.compos&compos;
merge compos&compos sefin&compos; by &byvar;
run;
PROC PRINT DATA=OUT.&TYPE.COMPOS&COMPOS;
TITLE1 COMPTITL;
RUN;
%MEND COMPOSIT;

*-----;
*- set the parameters here -;
*-----;
*****;
* Call the macro for each composite ;
*****;
%COMPOSIT (type=R,compos=1,var1=R10029,var2=R10033,qcount=2);
%COMPOSIT (type=R,compos=2,var1=R10007,var2=R10010,qcount=2);
%COMPOSIT (type=R,compos=3,var1=R10021,var2=R10022,var3=R10023,var4=R10024,qcount=4);
%COMPOSIT (type=R,compos=4,var1=R10040,var2=R10041,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R10045,var2=R10046,qcount=2);

```

G.1.K Q4FY2010\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2010\FILES.INC - INCLUDE FILE IN
COMPOSIT.SAS.

```
SET  
IN.R_R10045  
IN.R_R10046  
;
```


G.2.A Q4FY2010\PROGRAMS\LOADWEB\CAHPS_ADULTQ4FY2010\LOADCAHQ.SAS - CONVERT CAHPS SCORES INTO WEB LAYOUT - RUN QUARTERLY.

```
*****
*
* PROGRAM:  LOADCAHQ.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Convert the CAHPS Scores Database into the WEB layout
*
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.SAS.
*
* INPUTS:  1) CAHPS Individual and Composite data sets with adjusted scores
*
* OUTPUT:  1) LOADCAHQ.SD2 - Combined CAHPS Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*             and composite data sets
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1Q.SAS - Recode questions and generate group files
*   - STEP2Q.SAS - Calculate individual adjusted scores for group 1-7
*   - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*
* 2) The output file (LOADCAHQ.SD2) will be run through the
*   MAKEHTMQ.SAS program to generate the WEB pages.
*
* MODIFIED:
*
* 1) 04/10/2002 BY MIKE SCOTT, Updated variable names for 2002 survey.
* 2) 03/21/2003 BY MIKE SCOTT, Updated variable names for 2003 survey.
* 3) 06/25/2003 BY MIKE SCOTT, Updated for Q2 2003.
* 4) 07/03/2003 BY MIKE SCOTT, Added TIMEPD variable to be set to the period
*   or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
*   setting to 'Composite'.
* 5) 10/21/2003 BY MIKE SCOTT, Updated for Q3 2003.
* 6) 01/07/2004 BY MIKE SCOTT, Updated for Q4 2003.
* 7) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
* 8) 06/15/2004 BY REGINA GRAMSS, Updated for q2 2004.
* 9) 09/2004 BY REGINA GRAMSS, Updated for Q3 2004, changed all reference
*   to XREGION to XTNEXREG.
* 10) 01/2005 BY REGINA GRAMSS, Changed XTNEXREG to XSERVREG to include
*   service affiliation into regions.
* 11) 04/2005 BY REGINA GRAMSS, Updated 2004 field names for 2005.
* 12) 07/2005 BY REGINA GRAMSS, updated for Q2 2005.
* 13) 10/2005 BY REGINA GRAMSS, Updated for Q3 2005
* 14) 12/2005 BY REGINA GRAMSS, Updated for Q4 2005
* 15) 03/21/2006 BY KEITH RATHBUN, Updated variable names for 2006 survey.
* 16) 07/12/2006 by Justin Oh, updated for Q3 FY 2006
* 17) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3
*   Changed Libname IN for Q4FY2006.
* 18) 12/15/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q4
*   Changed Libname IN for Q1FY2007.
* 19) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1
*   Changed Libname IN for Q2FY2007.
* 20) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
*   ReportCards OR PurchasedReportCards.
* 21) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3
*   Changed Libname IN for Q4FY2007.
* 22) 01/10/2008 BY KEITH RATHBUN, Updated variable names for 2008 survey.
* 23) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1
*   Changed Libname IN for Q2FY2008.
* 24) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2
*   Changed Libname IN for Q3FY2008.
* 25) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3
*   Changed Libname IN for Q4FY2008.
* 26) 04/11/2009 by Mike Rudacille - Changed variable names to reflect
*   modifications to beneficiary reports necessary for V4
* 27) 06/22/2009 by Keith Rathbun - Updated BENTYPE composite year to 2009 Q2
*   Changed Libname IN for Q3FY2009.
* 28) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3
*   Changed Libname IN for Q4FY2009.
```

```

* 29) 10/17/2009 by Emma Ernst- Updated variables for Q12010
*      Changed Libname IN for Q1FY2010.
* 30) 03/02/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q1
*      Changed Libname IN for Q2FY2010.
* 31) 06/19/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q2
*      Changed Libname IN for Q3FY2010.
* 32) 08/28/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q3
*      Changed Libname IN for Q4FY2010.
*
*****
* Assign data libraries and options
*****;
/** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ***/
%LET RCTYPE = ReportCards;

LIBNAME IN      "..\..\&RCTYPE\CAHPS_ADULTQ4FY2010\DATA";
LIBNAME OUT     "DATA";
LIBNAME LIBRARY "..\..\..\DATA\AFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\LOADCAHQ.INC";

*****
*
* Process Macro Input Parameters:
*
* 1) QUESTION = Variable Question Name (DSN).
*    - For individual Questions it is the variable name
*    - For composite Questions it is called xCOMPOSn
*      where n = a predefined composite # and
*            x = R (Region) or C (Catchment)
* 2) TYPE = Type of Score (COMPOSITE or INDIVIDUAL)
* 3) REGCAT = Region/Catchment Area
*
*****
%MACRO PROCESS(QUESTION=,TYPE=);
*****;
* Assign value for BENTYPE composite year
*****;
%LET YEAR = "2010 Q3"; * Note that this is based on Calendar Year here;

*****
* Assign prefix for weighted/unweighted count variables.
* Unweighted counts is REGCNTn where n=group number.
* Weighted counts is REGWGTn where n=group number.
*****;
%LET PREFIX = REG;

*****
*
* Convert the CAHPS individual Scores Record into WEB layout.
* There are 8 logical records (adjusted scores) per physical record
*
*****;
DATA &QUESTION;
  SET IN.&QUESTION;

  LENGTH MAJGRP  $30;
  LENGTH REGION  $25; **RSG 01/2005 - Changed format to be large enough to include service
affiliation;
  LENGTH REGCAT  $26;
  LENGTH BENTYPE $50;
  LENGTH BENEFIT $34;
  LENGTH TIMEPD  $35; **MJS 07/03/03 Added line;

*****
* Assign Region
*****;

```

```

REGION = PUT(XSERVREG,SERVREGF.);
*****
* Assign benefit and benefit type
*****;
IF "&TYPE" = "INDIVIDUAL" THEN DO;
  IF DEPENDNT IN("R10018","R10047","R10027","R10031") THEN
    BENTYPE = "Composite";    ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
  ELSE
    BENTYPE = PUT(DEPENDNT,$BENTYPF.);
  BENEFIT = PUT(DEPENDNT,$BENEF.);
  TIMEPD = PUT(&YEAR,$BENTYPF.);    ***MJS 07/03/03 Added line;
END;
ELSE IF "&TYPE" = "COMPOSITE" THEN DO;
  BENTYPE = "Composite";    ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
  BENEFIT = PUT(DEPENDNT,$BENEF.);
  TIMEPD = PUT(&YEAR,$BENTYPF.);    ***MJS 07/03/03 Added line;
END;
ELSE PUT "ERROR - Invalid TYPE = &TYPE";

*****
* For now, Initialize Significance test to zero.
*****;
SIG = 0;
*****
* Assign Region
*****;
REGCAT = PUT(XSERVREG,SERVREGF.);

*****
* 1 = Prime Enrollees
*****;
MAJGRP = PUT(1,MAJGRPF.);
SCORE = ADJ1;
SEMEAN = SEMEAN1;
N_OBS = &PREFIX.CNT1;
N_WGT = &PREFIX.WGT1;
OUTPUT;

*****
* 2 = Enrollees with Military PCM
*****;
MAJGRP = PUT(2,MAJGRPF.);
SCORE = ADJ2;
SEMEAN = SEMEAN2;
N_OBS = &PREFIX.CNT2;
N_WGT = &PREFIX.WGT2;
OUTPUT;

*****
* 3 = Enrollees with Civilian PCM
*****;
MAJGRP = PUT(3,MAJGRPF.);
SCORE = ADJ3;
SEMEAN = SEMEAN3;
N_OBS = &PREFIX.CNT3;
N_WGT = &PREFIX.WGT3;
OUTPUT;

*****
* 4 = Non-enrolled Beneficiaries
*****;
MAJGRP = PUT(4,MAJGRPF.);
SCORE = ADJ4;
SEMEAN = SEMEAN4;
N_OBS = &PREFIX.CNT4;
N_WGT = &PREFIX.WGT4;
OUTPUT;

*****
* 5 = Active Duty
*****;
MAJGRP = PUT(5,MAJGRPF.);
SCORE = ADJ5;
SEMEAN = SEMEAN5;

```

```

N_OBS = &PREFIX.CNT5;
N_WGT = &PREFIX.WGT5;
OUTPUT;

*****
* 6 = Active Duty Dependents
*****;
MAJGRP = PUT(6,MAJGRP.F.);
SCORE = ADJ6;
SEMEAN = SEMEAN6;
N_OBS = &PREFIX.CNT6;
N_WGT = &PREFIX.WGT6;
OUTPUT;

*****
* 7 = Retirees and Dependents
*****;
MAJGRP = PUT(7,MAJGRP.F.);
SCORE = ADJ7;
SEMEAN = SEMEAN7;
N_OBS = &PREFIX.CNT7;
N_WGT = &PREFIX.WGT7;
OUTPUT;

*****
* 8 = All Beneficiaries          ALL Beneficiaries
*****;
MAJGRP = PUT(8,MAJGRP.F.);
SCORE = ADJ8;
SEMEAN = SEMEAN8;
N_OBS = &PREFIX.CNT8;
N_WGT = &PREFIX.WGT8;
OUTPUT;

KEEP MAJGRP
    REGION
    REGCAT
    BENTYPE
    BENEFIT
    TIMEPD /*MJS 07/03/03 Added*/
    SCORE
    SEMEAN
    N_OBS
    N_WGT
    SIG
;
RUN;

%MEND;

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(QUESTION=RCOMPOS1,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10029,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10033,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10007,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10010,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10021,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10022,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10023,TYPE=INDIVIDUAL);

```

```

%PROCESS(QUESTION=R_R10024,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 4.
* CUSTOMER SERVICE.
*****;
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10040,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10041,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 5.
* CLAIMS PROCESSING.
*****;
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10045,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10046,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(QUESTION=R_R10018,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(QUESTION=R_R10047,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(QUESTION=R_R10027,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
*****;
%PROCESS(QUESTION=R_R10031,TYPE=INDIVIDUAL);

*****
*****
* STACK up all of the files into one final output dataset.
*****;
DATA OUT.LOADCAHQ;
  SET R_R10029
    R_R10033
    R_R10007
    R_R10010
    R_R10021
    R_R10022
    R_R10023
    R_R10024
    R_R10040
    R_R10041
    R_R10045
    R_R10046
    R_R10018
    R_R10047
    R_R10027
    R_R10031
    RCOMPOS1
    RCOMPOS2
    RCOMPOS3
    RCOMPOS4
    RCOMPOS5
  ;
  IF SCORE = . THEN DELETE;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";

```

```
TITLE2 "Program Name: LOADCAHQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHQ.SAS7BDAT - Combined CAHPS Scores Database in WEB layout";

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;
```

G.2.B Q4FY2010\PROGRAMS\LOADWEB\LOADCAHQ.INC - FORMAT DEFINITIONS FOR CONVERTING THE SCORES DATABASE INTO THE WEB LAYOUT - RUN QUARTERLY.

```

*****
*
* PROGRAM:  LOADCAHQ.INC
* TASK:    QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Format definitions for converting the CAHPS Scores Database
*          into the WEB layout.
*
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.INC.
*
* MODIFIED: 1) 08/13/2001 BY KEITH RATHBUN, Added XSERVAFF format to
*            accommodate the short reports.
*            2) 01/24/2002 BY KEITH RATHBUN, Added BENTYPPF = 1998,1999,2000
*            added catchment composites.
*            3) 04/10/2002 BY KEITH RATHBUN, Added parameters for 2002 survey.
*            4) 04/03/2003 BY MIKE SCOTT, Added parameters for 2003 survey.
*            5) 07/08/2003 BY MIKE SCOTT, Added formats GETNCARE, GETCAREQ,
*            CRTSHELP, HOWWELL, CUSTSERV, CLMSPROC, and PREVCARE.
*            6) 03/22/2004 BY KEITH RATHBUN, Added parameters for 2004 survey.
*            Changed R04031 to be "Wait Less than 15 Minutes For Appointment".
*            7) 05/06/2004 BY MIKE SCOTT, Changed R04031 back to 2003 version of
*            the label ("Wait More than 15 Minutes Past Appointment") so that
*            the Q1 2004 version of the question is consistent with past
*            versions. The label will be changed to the new version ("Waiting
*            in the Doctor's Office") in Makehtmq.sas.
*            8) 02/2006 BY REGINA GRAMSS, Changed date format to fielding dates.
*            9) 03/21/2006 BY KEITH RATHBUN, Added parameters for 2006 survey.
*            10) 08/22/2006 BY JUSTIN OH, Changed SERVREGF format for Overseas.
*            11) 12/15/2006 BY JUSTIN OH, Added parameters for 2007 survey.
*            12) 02/02/2007 BY JUSTIN OH, Added "s" in Healthy Behaviors in VALUE BEN.
*            13) 01/10/2008 BY KEITH RATHBUN, Added parameters for 2008 survey.
*            14) 01/09/2009 BY MIKE RUDACILLE, Added parameters for 2009 survey.
*            14) 01/16/2009 BY MIKE RUDACILLE, Changed CONUS to USA.
*            15) 04/11/2009 by Mike Rudacille - Changed formats to reflect
*            modifications to beneficiary reports necessary for V4
*            16) 12/17/09 by Emma Ernst, Added parameters for 2010 survey.
*
* INPUTS:  No direct input
*
* OUTPUT:  No direct output
*
* NOTES:   1) Under the new contract (8860), the survey year was changed
*            to be based on the year the survey is administered (2002)
*            as opposed to the questioning reference frame (2001). This
*            include file contains variable names for both the 2001
*            survey administration year and the the 2002 administration
*            year surveys.

```

```

*****
;
*****
* FORMAT Definitions
*****;
PROC FORMAT;
  VALUE MAJGRPF
    1 = "Prime Enrollees           "
    2 = "Enrollees with Military PCM"
    3 = "Enrollees with Civilian PCM"
    4 = "Non-enrolled Beneficiaries "
    5 = "Active Duty               "
    6 = "Active Duty Dependents    "
    7 = "Retirees and Dependents   "
    8 = "All Beneficiaries         "
  ;
  VALUE XSERVAFF
    1 = "ARMY"
    2 = "AIR FORCE"
    3 = "NAVY"
    4 = "OTHER"
  ;
  VALUE REGIONF

```

```

0 = "USA MHS "
1 = "North"
2 = "South"
3 = "West"
4 = "Overseas"

```

```
;
```

```
/*JSO 08/24/2006, Changed Overseas to Service for Europe,Pacific,Latin*/
```

```
VALUE SERVREGF
```

```

1 = "North Army"
2 = "North Air Force"
3 = "North Navy"
4 = "North Other"
5 = "South Army"
6 = "South Air Force"
7 = "South Navy"
8 = "South Other"
9 = "West Army"
10 = "West Air Force"
11 = "West Navy"
12 = "West Other"
13 = "Europe Army"
14 = "Europe Air Force"
15 = "Europe Navy"
16 = "Europe Other"
17 = "Pacific Army"
18 = "Pacific Air Force"
19 = "Pacific Navy"
20 = "Pacific Other"
21 = "Latin America Army"
22 = "Latin America Air Force"
23 = "Latin America Navy"
24 = "Latin America Other"
25 = "USA ARMY"
26 = "USA AIR FORCE"
27 = "USA NAVY"
28 = "USA OTHER";

```

```
/*JSO 08/24/2006, Changed Overseas to Europe,Pacific,Latin*/
```

```
VALUE SERVREGO
```

```

1 = "North Army"
2 = "North Air Force"
3 = "North Navy"
4 = "North Other"
5 = "South Army"
6 = "South Air Force"
7 = "South Navy"
8 = "South Other"
9 = "West Army"
10 = "West Air Force"
11 = "West Navy"
12 = "West Other"
13 = "Overseas Europe"
14 = "Overseas Pacific"
15 = "Overseas Latin America";

```

```
VALUE $BENTYPF
```

```

"1998 " = "1998 "
"1999 " = "1999 "
"2000 " = "2000 "
"2001 " = "2001 "
"2002 " = "2002 "
"2003 " = "2003 "
"2004 " = "2004 "
"2005 " = "2005 "
"2006 " = "2006 "
"2007 " = "2007 "
"2008 " = "2008 "
"2000 Q1 " = "January, 2000 to December, 2000 "
"2000 Q2 " = "April, 2000 to March, 2001 "
"2000 Q3 " = "July, 2000 to June, 2001 "
"2000 Q4 " = "October, 2000 to September, 2001 "
"2002 Q1 " = "January, 2001 to December, 2001 "
"2002 Q2 " = "April, 2001 to March, 2002 "

```



```

"2002 Q3 " = "July, 2001 to June, 2002      "
"2002 Q4 " = "October, 2001 to September, 2002  "
"2003 Q1 " = "January, 2002 to December, 2002  "
"2003 Q2 " = "April, 2002 to March, 2003       "
"2003 Q3 " = "July, 2002 to June, 2003         "
"2003 Q4 " = "October, 2002 to September, 2003  "
"2004 Q1 " = "January, 2003 to December, 2003  "
"2004 Q2 " = "April, 2003 to March, 2004        "
"2004 Q3 " = "Quarter 3, CY 2004                "
"2004 Q4 " = "Quarter 4, CY 2004                "
"2005 Q1 " = "January, 2005                     "
"2005 Q2 " = "April, 2005                       "
"2005 Q3 " = "July, 2005                       "
"2005 Q4 " = "October, 2005                     "
"2006 Q1 " = "January, 2006                     "
"2006 Q2 " = "April, 2006                       "
"2006 Q3 " = "July, 2006                       "
"2006 Q4 " = "October, 2006                     "
"2007 Q1 " = "January, 2007                     "
"2007 Q2 " = "April, 2007                       "
"2007 Q3 " = "July, 2007                       "
"2007 Q4 " = "October, 2007                     "
"2008 Q1 " = "January, 2008                     "
"2008 Q2 " = "April, 2008                       "
"2008 Q3 " = "July, 2008                       "
"2008 Q4 " = "October, 2008                     "
"2009 Q1 " = "January, 2009                     "
"2009 Q2 " = "April, 2009                       "
"2009 Q3 " = "July, 2009                       "
"2009 Q4 " = "October, 2009                     "
"2010 Q1 " = "January, 2010                     "
"2010 Q2 " = "April, 2010                       "
"2010 Q3 " = "July, 2010                       "
"2010 Q4 " = "October, 2010                     "

```

```

/*****
*****/
/*
/* 2001      2002      2003      2004      2005      2006      2007      2008      2009
2010 */

```

```

/*****
*****/
"R00014 ", "R02016 ", "R03013 ", "R04013", "R05013", "R06013", "R07013", "R08013",
"R09029", "R10029" = "Getting to See a Specialist
"R00028 ", "R02030 ", "R03027 ", "R04028", "R05027", "R06027", "R07027", "R08027",
"R09033", "R10033" = "Getting Treatment
"R00024 ", "R02026 ", "R03023 ", "R04020", "R05019", "R06019", "R07019", "R08019",
"R09007", "R10007" = "Wait for Urgent Care
"R00021 ", "R02023 ", "R03020 ", "R04023", "R05022", "R06022", "R07022", "R08022",
"R09010", "R10010" = "Wait for Routine Visit
"R00033 ", "R02035 ", "R03032 ", "R04034", "R05033", "R06033", "R07033", "R08033",
"R09021", "R10021" = "Listens Carefully
"R00034 ", "R02036 ", "R03033 ", "R04035", "R05034", "R06034", "R07034", "R08034",
"R09022", "R10022" = "Explains so You Can Understand
"R00035 ", "R02037 ", "R03034 ", "R04036", "R05035", "R06035", "R07035", "R08035",
"R09023", "R10023" = "Shows Respect
"R00036 ", "R02038 ", "R03035 ", "R04037", "R05036", "R06036", "R07036", "R08036",
"R09024", "R10024" = "Spends Time with You
"R00048 ", "R02048 ", "R03044 ", "R04045", "R05043", "R06043", "R07043", "R08043",
"R09040", "R10040" = "Getting Information
"R00050 ", "R02050 ", "R03046 ", "R04047", "R05045", "R06045", "R07045", "R08045",
"R09041", "R10041" = "Courteous Customer Service
"R00044 ", "R02044 ", "R03040 ", "R04041", "R05040", "R06040", "R07040", "R08040",
"R09045", "R10045" = "Claims Handled in a Reasonable Time"
"R00045 ", "R02045 ", "R03041 ", "R04042", "R05041", "R06041", "R07041", "R08041",
"R09046", "R10046" = "Claims Handled Correctly
"R00037 ", "R02039 ", "R03036 ", "R04038", "R05037", "R06037", "R07037", "R08037",
"R09018", "R10018" = "Health Care
"R00056 ", "R02056 ", "R03052 ", "R04054", "R05048", "R06048", "R07048", "R08048",
"R09047", "R10047" = "Health Plan
"R00009 ", "R02011 ", "R03011 ", "R04009", "R05009", "R06009", "R07009", "R08009",
"R09027", "R10027" = "Primary Care Manager

```

```

"R00016", "R02018", "R03015", "R04015", "R05015", "R06015", "R07015", "R08015",
"R09031", "R10031" = "Specialty Care"
"PHYSIC" = "Physical"
"MENTAL" = "Mental"

```

```
;
```

```
VALUE $BENEF
```

```

"RCOMPOS1", "CCOMPOS1", "R00014", "R00028",
"R02016", "R02030",
"R03013", "R03027",
"R04013", "R04028",
"R05013", "R05027",
"R06013", "R06027",
"R07013", "R07027",
"R08013", "R08027",
"R09029", "R09033",
"R10029", "R10033"

```

```
= "Getting Needed Care"
```

```

"RCOMPOS2", "CCOMPOS2", "R00024", "R00021",
"R02026", "R02023",
"R03023", "R03020",
"R04020", "R04023",
"R05019", "R05022",
"R06019", "R06022",
"R07019", "R07022",
"R08019", "R08022",
"R09007", "R09010",
"R10007", "R10010"

```

```
= "Getting Care Quickly"
```

```

"RCOMPOS3", "CCOMPOS3", "R00033", "R00034", "R00035", "R00036",
"R02035", "R02036", "R02037", "R02038",
"R03032", "R03033", "R03034", "R03035",
"R04034", "R04035", "R04036", "R04037",
"R05033", "R05034", "R05035", "R05036",
"R06033", "R06034", "R06035", "R06036",
"R07033", "R07034", "R07035", "R07036",
"R08033", "R08034", "R08035", "R08036",
"R09021", "R09022", "R09023", "R09024",
"R10021", "R10022", "R10023", "R10024"

```

```
= "How Well Doctors Communicate"
```

```

"RCOMPOS4", "CCOMPOS4", "R00048", "R00050",
"R02048", "R02050",
"R03044", "R03046",
"R04045", "R04047",
"R05043", "R05045",
"R06043", "R06045",
"R07043", "R07045",
"R08043", "R08045",
"R09040", "R09041",
"R10040", "R10041"

```

```
= "Customer Service"
```

```

"RCOMPOS5", "CCOMPOS5", "R00044", "R00045",
"R02044", "R02045",
"R03040", "R03041",
"R04041", "R04042",
"R05040", "R05041",
"R06040", "R06041",
"R07040", "R07041",
"R08040", "R08041",
"R09045", "R09046",
"R10045", "R10046"

```

```
= "Claims Processing"
```

```

"RCOMPOS11", "COMPOS11", "MENTAL", "PHYS"
= "Health Status"

```

```

/*****
****/
/* Admin. Year Defn.
*/

```

```

/* 2001      2002      2003      2004      2005      2006      2007      2008      2009
2010 */

/*****
****/
"R00037", "R02039", "R03036", "R04038", "R05037", "R06037", "R07037", "R08037", "R09018",
"R10018" = "Health Care
"R00056", "R02056", "R03052", "R04054", "R05048", "R06048", "R07048", "R08048", "R09047",
"R10047" = "Health Plan
"R00009", "R02011", "R03011", "R04009", "R05009", "R06009", "R07009", "R08009", "R09027",
"R10027" = "Primary Care Manager
"R00016", "R02018", "R03015", "R04015", "R05015", "R06015", "R07015", "R08015", "R09031",
"R10031" = "Specialty Care
;
VALUE BEN
/* 0 = 'Total' deleted no longer calculating total 04/2005 RSG ***/
1 = 'Getting Needed Care'
2 = 'Getting Care Quickly'
3 = 'How Well Doctors Communicate'
4 = 'Customer Service'
5 = 'Claims Processing'
6 = 'Health Plan'
7 = 'Health Care'
8 = 'Primary Care Manager'
9 = 'Specialty Care'
10 = 'Preventive Care'
11 = 'Healthy Behaviors';

VALUE MAJOR
1 = "Prime Enrollees "
2 = "Enrollees with Military PCM"
3 = "Enrollees with Civilian PCM"
4 = "Non-enrolled Beneficiaries "
5 = "Active Duty "
6 = "Active Duty Dependents "
7 = "Retirees and Dependents "
8 = "All Beneficiaries ";

VALUE GETNCARE
1 = "Getting to See a Specialist"
2 = "Getting Treatment"
3 = "Composite";

VALUE GETCAREQ
1 = "Wait for Routine Visit"
2 = "Wait for Urgent Care"
3 = "Composite";

VALUE HOWWELL
1 = "Listens Carefully"
2 = "Explains so You Can Understand"
3 = "Shows Respect"
4 = "Spends Time with You"
5 = "Composite";

VALUE CUSTSERV
1 = "Getting Information"
2 = "Courteous Customer Service"
3 = "Composite";

VALUE CLMSPROC
1 = "Claims Handled in a Reasonable Time"
2 = "Claims Handled Correctly"
3 = "Composite";

VALUE PREVCARE
1 = "Mammography"
2 = "Pap Smear"
3 = "Hypertension"
4 = "Prenatal Care"
5 = "Composite";

VALUE SMOKEF
1 = "Non-Smoking Rate"

```

```
2 = "Counselled To Quit"  
3 = "Percent Not Obese"  
4 = "Composite";  
RUN;
```

G.3.A Q1FY2010\PROGRAMS\BENCHMARK\BENCHA01.SAS - EXTRACT ADULT CAHPS QUESTIONS FROM NCBD - RUN QUARTERLY.

```

*****
*
* PROGRAM:  BENCHA01.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Extract Adult CAHPS Questions
*
* WRITTEN: 06/02/2000 BY KEITH RATHBUN
*
* INPUTS:  1) AC2006DB.SD2 - 2006 Adult CAHPS Questions
*
* OUTPUT:  1) BENCHA01.SD2 - 2006 Adult CAHPS Questions Renamed to be
*            consistent with the 2006 MPR DOD Survey.
*
* MODIFIED: 1) 12/19/2000 BY KEITH RATHBUN for Q1 2000 Survey.
*            2) 04/11/2002 BY MIKE SCOTT, Updated variable names for 2002
*            Survey.
*            3) 07/30/2002 BY MIKE SCOTT, Updated to use 2001 NCBD.
*            4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
*            5) 05/06/2003 BY MIKE SCOTT, Updated for 2002 benchmarks.
*            6) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
*            7) 04/16/2004 BY KEITH RATHBUN, Updated to use 2003 NCBD.
*            8) 05/17/2005 BY REGINA GRAMSS, Updated for Q1 2005.
*            9) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
*            Changed variable names to match the 2006 HCSDB survey.
*            Changed CAHPS variable names to match those in 2005 NCBD.
*            10) 02/21/2007 BY JUSTIN OH, Updated for Q1 FY 2007.
*            Changed variable names to match the 2006 HCSDB survey.
*            Changed CAHPS variable names to match those in 2006 NCBD.
*            Changed SREDHIGH variable AC60_05 to AC58_06
*            11) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
*            Changed variable names to match the 2008 HCSDB survey.
*            12) 01/05/2009 BY MIKE RUDACILLE, Updated for Q1 FY 2009.
*            Changed variable names to match the 2009 HCSDB survey.
*            13) April 7, 2009 by Mike Rudacille, changed variable names to reflect
*            modifications to beneficiary reports necessary for V4
*            14) May 5, 2009 by Mike Rudacille, Updated for 2008 benchmarks.
*            15) December 21, 2009 by Emma Ernst for Q1FY2010
*
* NOTES:
*
* 1) This program will generate the input for BENCHA02.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN  "..\..\..\2008AdultChildNCBD\Adult";
LIBNAME OUT "data";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHA01;
  SET IN.AC2008DB (RENAME=(BIRTHYY=YOB));
  FORMAT _ALL_;
  H10019 = AC13_08;
  *****
  * Getting Needed Care
  *****;
  H10029 = AC23_08;
  H10033 = AC27_08;
  *****
  * Getting Care Quickly
  *****;
  H10007 = AC04_08;
  H10010 = AC06_08;
  *****
  * How Well Doctors Communicate
  *****;
  H10021 = AC16_08;
  H10022 = AC15_08;
  H10023 = AC17_08;
  H10024 = AC18_08;

```

```

*****
* Customer Service
*****;
H10040 = AC35_08;
H10041 = AC36_08;
*****
* Claims Processing
*****;
H10045 = AC40_08;
H10046 = AC41_08;
*****
* Health Care Rating
*****;
H10018 = AC12_08;
*****
* Health Plan Rating
*****;
H10047 = AC42_08;
*****
* Personal Doctor Rating
*****;
H10027 = AC21_08;
*****
* Specialist Rating
*****;
H10031 = AC25_08;
*****
* Health Status
*****;
H10063 = AC43_08;
AGEGROUP = AGE; *NEED TO USE USE THIS DIRECTLY (already grouped);
XSEXA = GENDER;
SREDHIGH = AC55_08; /*JSO 02/21/06 chged AC60_05 to AC58_06 */
SRRACEA=AC57A_08;
SRRACEB=AC57B_08;
SRRACEC=AC57C_08;
SRRACED=AC57D_08;
SRRACEE=AC57E_08;
H10071=AC56_08;
if product in (7,9) then model=4; /*MJS 05/06/03 product now numeric*/
if product=3 then model=2; /*coded according to AC FORMATS.SAS*/
if product=1 then model=1;
if product=4 then model=6;
if product=8 then model=5;
if product=2 then model=3;
nproduct=planid+0; /*MJS 05/06/03 was plnid now planid*/

LABEL H10029 = "AC23_08 - Got appointment with a specialist"
H10033 = "AC27_08 - Got necessary care"
H10007 = "AC04_08 - Got urgent care quickly"
H10010 = "AC06_08 - Got routine care quickly"
H10021 = "AC16_08 - Doctors/providers listened carefully"
H10022 = "AC15_08 - Doctors/providers explained things"
H10023 = "AC17_08 - Doctors/providers showed respect"
H10024 = "AC18_08 - Doctors/providers spent enough time"
H10040 = "AC35_08 - Customer service provided needed info"
H10041 = "AC36_08 - Customer services was courteous"
H10045 = "AC40_08 - Claims handled quickly"
H10046 = "AC41_08 - Claims handled correctly"
H10018 = "AC12_08 - Rating of health care"
H10047 = "AC42_08 - Rating of health plan"
H10027 = "AC21_08 - Rating of personal doctor or nurse"
H10031 = "AC25_08 - Rating of specialist seen most often"
H10063 = "AC43_08 - Rating of overall health"
AGEGROUP = "AGE - Imputed adult age"
XSEXA = "GENDER - Gender (equal to AC54_08 or SEX)"
SREDHIGH = "AC55_08 - Highest grade finished" /*JSO 02/21/06 chged AC60_05 to AC58_06
*/
;
KEEP H10029
H10033
H10007
H10010
H10021

```

```
H10022
H10023
H10024
H10040
H10041
H10045
H10046
H10018
H10047
H10027
H10031
H10063
AGEGROUP
XSEXA
SREDHIGH
MODEL
NPRODUCT
DISP
YOB
SRRACEA--SRRACEE
H10071
H10019
;
RUN;

TITLE1 "Extract Adult CAHPS Questions (DoD)";
TITLE2 "Program Name: BENCH01.SAS By Keith Rathbun";
TITLE3 "Program Input: AC2008DB.sas7bdat";
TITLE4 "Program Output: BENCH01.sas7bdat";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES _ALL_ /MISSING LIST;
RUN;
```

G.3.B Q1FY2010\PROGRAMS\BENCHMARK\BENCHA02.SAS - RECODE ADULT CAHPS QUESTIONS FROM NCBD TO BE CONSISTENT WITH THE HCSDB - RUN QUARTERLY.

```

*****
*
* PROGRAM:  BENCHA02.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Recode Adult CAHPS Questions
*
* WRITTEN: 06/02/2000 BY KEITH RATHBUN
*
* INPUT:   1) BENCHA01.SD2 - Adult CAHPS Questions Renamed to be
*           consistent with the MPR DOD Survey.
*
* OUTPUT:  1) BENCHA02.SD2 - Recoded Adult CAHPS Questions Renamed
*           to be consistent with the MPR DOD Survey.
*
* MODIFIED: 1) 12/19/2000 BY KEITH RATHBUN for Q1 2000 Survey.
*           2) 04/11/2002 BY MIKE SCOTT, Updated variable names for 2002
*           Survey.
*           3) 07/30/2002 BY MIKE SCOTT, Updated to use 2001 NCBD.
*           4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
*           5) 05/06/2003 BY MIKE SCOTT, Changed labels from _01 to _02.
*           6) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
*           7) April 2004 By Keith Rathbun, Removed reverse coding for
*           H04031. 2004 survey question wording is 'Within 15 minutes'
*           instead of "More than 15 Minutes". Updated CAHPS variable
*           labels to be consistent with 2003 NCBD.
*           8) 06/2005 By Regina Gramss, Updated codes with 2005 variable
*           names/labels.
*           9) 03/24/2006 BY KEITH RATHBUN, Updated for 2006 survey.
*           Changed CAHPS variable names to match those in 2005 NCBD.
*           10) 01/10/2008 BY KEITH RATHBUN, Updated for 2008 survey.
*           11) 01/05/2009 BY MIKE RUDACILLE, Updated for 2009 survey.
*           12) April 10, 2009 by Mike Rudacille, changed variable names to reflect
*           modifications to beneficiary reports necessary for V4
*           13) December 21, 2009 by Emma Ernst, updated for Q1FY2010
*
* NOTES:
*
* 1) Run this program after BENCHA01.SAS.
* 2) This program will generate the input for BENCHA03.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN      "data";
LIBNAME OUT     "data";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHA02(rename=(nproduct=product));
  SET IN.BENCHA01;

*****
* Recode variables with Never, Sometimes, Usually and Always.
* Recode Never & Sometimes (1 & 2) to 1.
* Recode Usually (3) to 2.
* Recode Always (4) to 3.
*****;

IF H1007 = 1      THEN R1007 = 1;
ELSE IF H1007 = 2 THEN R1007 = 1;
ELSE IF H1007 = 3 THEN R1007 = 2;
ELSE IF H1007 = 4 THEN R1007 = 3;
ELSE IF H1007 < 0 THEN R1007 = .;

IF H10010 = 1    THEN R10010 = 1;
ELSE IF H10010 = 2 THEN R10010 = 1;
ELSE IF H10010 = 3 THEN R10010 = 2;
ELSE IF H10010 = 4 THEN R10010 = 3;
ELSE IF H10010 < 0 THEN R10010 = .;

IF H10021 = 1    THEN R10021 = 1;

```



```
ELSE IF H10021 = 2 THEN R10021 = 1;
ELSE IF H10021 = 3 THEN R10021 = 2;
ELSE IF H10021 = 4 THEN R10021 = 3;
ELSE IF H10021 < 0 THEN R10021 = .;
```

```
IF H10022 = 1 THEN R10022 = 1;
ELSE IF H10022 = 2 THEN R10022 = 1;
ELSE IF H10022 = 3 THEN R10022 = 2;
ELSE IF H10022 = 4 THEN R10022 = 3;
ELSE IF H10022 < 0 THEN R10022 = .;
```

```
IF H10023 = 1 THEN R10023 = 1;
ELSE IF H10023 = 2 THEN R10023 = 1;
ELSE IF H10023 = 3 THEN R10023 = 2;
ELSE IF H10023 = 4 THEN R10023 = 3;
ELSE IF H10023 < 0 THEN R10023 = .;
```

```
IF H10024 = 1 THEN R10024 = 1;
ELSE IF H10024 = 2 THEN R10024 = 1;
ELSE IF H10024 = 3 THEN R10024 = 2;
ELSE IF H10024 = 4 THEN R10024 = 3;
ELSE IF H10024 < 0 THEN R10024 = .;
```

```
IF H10029 = 1 THEN R10029 = 1;
ELSE IF H10029 = 2 THEN R10029 = 1;
ELSE IF H10029 = 3 THEN R10029 = 2;
ELSE IF H10029 = 4 THEN R10029 = 3;
ELSE IF H10029 < 0 THEN R10029 = .;
```

```
IF H10033 = 1 THEN R10033 = 1;
ELSE IF H10033 = 2 THEN R10033 = 1;
ELSE IF H10033 = 3 THEN R10033 = 2;
ELSE IF H10033 = 4 THEN R10033 = 3;
ELSE IF H10033 < 0 THEN R10033 = .;
```

```
IF H10040 = 1 THEN R10040 = 1;
ELSE IF H10040 = 2 THEN R10040 = 1;
ELSE IF H10040 = 3 THEN R10040 = 2;
ELSE IF H10040 = 4 THEN R10040 = 3;
ELSE IF H10040 < 0 THEN R10040 = .;
```

```
IF H10041 = 1 THEN R10041 = 1;
ELSE IF H10041 = 2 THEN R10041 = 1;
ELSE IF H10041 = 3 THEN R10041 = 2;
ELSE IF H10041 = 4 THEN R10041 = 3;
ELSE IF H10041 < 0 THEN R10041 = .;
```

```
IF H10045 = 1 THEN R10045 = 1;
ELSE IF H10045 = 2 THEN R10045 = 1;
ELSE IF H10045 = 3 THEN R10045 = 2;
ELSE IF H10045 = 4 THEN R10045 = 3;
ELSE IF H10045 < 0 THEN R10045 = .;
```

```
IF H10046 = 1 THEN R10046 = 1;
ELSE IF H10046 = 2 THEN R10046 = 1;
ELSE IF H10046 = 3 THEN R10046 = 2;
ELSE IF H10046 = 4 THEN R10046 = 3;
ELSE IF H10046 < 0 THEN R10046 = .;
```

```
IF H10063 = 1 THEN R10063 = 5;
ELSE IF H10063 = 2 THEN R10063 = 4;
ELSE IF H10063 = 3 THEN R10063 = 3;
ELSE IF H10063 = 4 THEN R10063 = 2;
ELSE IF H10063 = 5 THEN R10063 = 1;
ELSE IF H10063>5|H10063<1 THEN R10063 = .;
```

```
*****
* Recode variables to one missing condition "."
* This also makes all the "H000xx" to "R000xx".
*****;
R10027 = H10027; IF R10027 < 0|R10027>10 THEN R10027 = .;
R10031 = H10031; IF R10031 < 0|R10031>10 THEN R10031 = .;
R10018 = H10018; IF R10018 < 0|R10018>10 THEN R10018 = .;
R10047 = H10047; IF R10047 < 0|R10047>10 THEN R10047 = .;
```

```

R10071 = H10071; IF R10071<0 THEN R10071 = .;

LABEL R10007 = "AC04_08 - Got urgent care quickly"
R10010 = "AC06_08 - Got routine care quickly"
R10021 = "AC16_08 - Doctors/providers listened carefully"
R10022 = "AC15_08 - Doctors/providers explained things"
R10023 = "AC17_08 - Doctors/providers showed respect"
R10024 = "AC18_08 - Doctors/providers spent enough time"
R10029 = "AC23_08 - Got appointment with a specialist"
R10033 = "AC27_08 - Got necessary care"
R10040 = "AC35_08 - Customer service provided needed info"
R10041 = "AC36_08 - Customer services was courteous"
R10045 = "AC40_08 - Claims handled quickly"
R10046 = "AC41_08 - Claims handled correctly"
R10018 = "AC12_08 - Rating of health care"
R10027 = "AC21_08 - Rating of personal doctor or nurse"
R10031 = "AC25_08 - Rating of specialist seen most often"
R10047 = "AC42_08 - Rating of health plan"
R10063 = "AC43_08 - Rating of overall health"

nPRODUCT = "Product ID - Unique plan ID";
;
drop product;
RUN;

TITLE1 "Recode Adult CAHPS Questions (6244-410)";
TITLE2 "Program Name: BENCHA02.SAS By Keith Rathbun";
TITLE3 "Program Input: BENCHA01.SAS7BDAT";
TITLE4 "Program Output: BENCHA02.SAS7BDAT";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES AGEGROUP
XSEXA
SREDHIGH
MODEL
R10007 * H10007
R10010 * H10010
R10021 * H10021
R10022 * H10022
R10023 * H10023
R10024 * H10024
R10029 * H10029
R10033 * H10033
R10040 * H10040
R10041 * H10041
R10045 * H10045
R10046 * H10046
R10018 * H10018
R10027 * H10027
R10031 * H10031
R10047 * H10047
R10063 * H10063
/MISSING LIST;
RUN;

```

G.3.C Q4FY2010\PROGRAMS\BENCHMARK\BENCHA03.SAS - CALCULATE CAHPS BENCHMARK DATA FOR HCSDB - RUN QUARTERLY.

```

*****
*
* PROGRAM:  BENCHA03.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Adjust Adult CAHPS Benchmarks
*
* WRITTEN: June 2000 BY ERIC SCHONE
*
* INPUTS:  1) BENCHA02.SD2 - 2005 Adult CAHPS Questions Renamed to be
*           consistent with the 2006 MPR DOD Survey.
*           2) GROUP8.SD2 - CAHPS Group8 (all beneficiaries) Dataset
*
* OUTPUTS: 1) Benchmark Composite Scores Data Sets
*
* MODIFIED: 1) Nov 2000 BY ERIC SCHONE - Output permanent datasets with
*           scores and standard errors and process the rest of the
*           composites and ratings.
*           2) Dec 2000 BY KEITH RATHBUN - Update variable names for
*           Q1 2000 Survey.
*           3) Jan 2002 BY KEITH RATHBUN - Updated to run under SAS
*           version 8 (changed INTERCEP to INTERCEPT).
*           4) Apr 2002 BY MIKE SCOTT - Updated variable names for Q1
*           2002 Survey.
*           5) Jul 2002 BY MIKE SCOTT - Changed R00077 to R04075, since
*           H02077 (health status) is back and was renamed to R04075
*           in HSC022_1.sd2.
*           6) Mar 2003 BY MIKE SCOTT - Updated for 2003 survey.
*           7) May 2003 BY MIKE SCOTT - Changed ac03_01 to ac03_02.
*           8) Jun 2003 BY MIKE SCOTT - Updated for Q2 2003.
*           9) Oct 2003 BY MIKE SCOTT - Updated for Q3 2003.
*           10) Mar 2004 BY MIKE SCOTT - Updated for Q1 2004.
*           11) April 2004 BY KEITH RATHBUN - Updated to use the CAHPS 2003
*           variable ac03_03.
*           12) June 2004 BY REGINA GRAMSS - Updated to use for Q2 2004
*           13) Sept 2004 BY REGINA GRAMSS - Update for Q3 2004
*           14) May 2005 BY REGINA GRAMSS - Updated for Q1 2005
*           15) Jul 2005 BY REGINA GRAMSS - Updated for Q2 2005
*           16) Oct 2005 BY REGINA GRAMSS - Updated for Q3 2005
*           17) Dec 2005 BY REGINA GRAMSS - Updated for Q4 2005
*           18) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
*           Changed variable names to match the 2006 HCSDB survey.
*           19) 07/12/2006 by Justin Oh - Updated for Q3 FY 2006.
*           20) 10/03/2006 by Justin Oh - Changed libname in2 for Q4FY2006.
*           Change the INCLUDE path to CONVERT.sas file.
*           21) 12/18/2006 by Justin Oh - Changed libname in2 for Q1FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           22) 04/05/2007 by Justin Oh - Changed libname in2 for Q2FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           23) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
*           ReportCards OR PurchasedReportCards.
*           24) 04/05/2007 by Keith Rathbun - Changed libname in2 for Q3FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           25) 09/04/2007 by Justin Oh - Changed libname in2 for Q4FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           26) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
*           Changed variable names to match the 2008 HCSDB survey.
*           27) 04/11/2008 by Justin Oh - Changed libname in2 for Q2FY2008.
*           Change the INCLUDE path to CONVERT.sas file.
*           28) 06/13/2008 by Keith Rathbun - Changed libname in2 for Q3FY2008.
*           Change the INCLUDE path to CONVERT.sas file.
*           29) April 10, 2009 by Mike Rudacille, changed variable names to reflect
*           modifications to beneficiary reports necessary for V4
*           30) Sept 30, 2009 by Mike Rudacille - Changed libname in2 for Q4FY2009.
*           Change the INCLUDE path to CONVERT.sas file.
*           31) December 17, 2009 by Emma Ernst- Changed libname in2 for Q1FY2010 and
*           changed variables names.
*           32) March 2, 2010 by Mike Rudacille - Changed libname in2 for Q2FY2010.
*           Change the INCLUDE path to CONVERT.sas file.
*           33) March 30, 2010 by Mike Rudacille - Changed libname in to get
*           benchmark data from Q2FY2010 (2009 NCBDB benchmark data).

```

```

*          34) June 19, 2010 by Mike Rudacille - Changed libname in2 for Q3FY2010.
*          35) August 28, 2010 by Mike Rudacille - Changed libname in2 for Q4FY2010.
*
* NOTES:
*
* 1) Run this program after BENCHA01.SAS and BENCHA02.SAS.
* 2) This program will generate the input for BENCHA04.SAS.
*
*****
* Assign data libraries and options
*****;

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ****/
%LET RCTYPE = ReportCards;

libname in          "..\..\..\Q2FY2010\Programs\Benchmark\Data"; /*Use BENCHA02.sas7bdat from
Q2fy2010*/
libname in2         "..\&RCTYPE\CAHPS_AdultQ4FY2010\Data";
libname out         "Data";
LIBNAME LIBRARY    "..\..\DATA\AFINAL\FMTLIB";

%let wgt=FWRWT;

OPTIONS MLOGIC MPRINT NOCENTER MERGENOBY=WARN LS=132 PS=79;

%macro comb(f,t,q,l);

proc summary data=&f;
  var &t;
  where &q~=. ;
  weight &wgt;
  output out=temp mean=&t;
run;

data temp;
  set temp;
  array old &t;
  call symput('z',left(dim(old)));
run;

data temp(drop=_type_ &t);
  set temp;
  array old &t;
  array new var1-var&z;
  do i=1 to &z;
    new(i)=old(i);
  end;
run;

data &q._&l;
  merge temp c_&q;
  array coeffs &t;
  array means var1-var&z;
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN COEFFS(I) = 0;
    IF MEANS(I) = . THEN MEANS(I) = 0;
    ADJUST + ( COEFFS(I) * MEANS(I) );
  END;

  ADJUST = ADJUST + intercept;
  &q._&l=adjust;

run;

%mend comb;

%macro adjust(x,y);

proc summary data=setup;
  where &x>. ;
  class product;

```

```

    output out=count;
run;

data count count2(rename=(freq=denom));
  set count;
  if _type_=0 then output count2;
  else output count;
run;

data count(keep=pweight product);
  if _n_=1 then set count2;
  set count;
  pweight=denom/freq;
run;

data temp;
  merge count  setup; by product;

run;
proc summary data=temp;
  where &x>.;
  weight pweight;
  var &y;
  output out=temp2 mean=&y;
  data temp2;
  set temp2;
  array old &y;
  call symput('z',left(dim(old)));
run;
data temp2(keep=var1-var&z);
  set temp2;
  array old &y;
  array new var1-var&z;
  do i=1 to &z;
    new(i)=old(i);
  end;
run;
data temp;
set temp;
if _n_=1 then set temp2;
  array old &y;
  array new var1-var&z;
  do i=1 to &z;
    if old(i)=. then
      old(i)=new(i);
  end;
run;
proc reg data=temp outest=c_&x noprint;
  model &x=&y;
  weight pweight;
  output out=r_&x r=r_&x;
run;

proc sort data=r_&x; by product;
run;

PROC DESCRIPT DATA=r_&x DESIGN=STRWR NOPRINT;
  WEIGHT pweight;
  SETENV DECWIDTH=4;
  NEST product / missunit;
  VAR R_&x;
  OUTPUT SEMEAN / TABLECELL=DEFAULT
  FILENAME=s_&x;
RUN;

data s_&x(rename=(semean=s_&x));
  set s_&x(keep=semean);
  %do i=1 %to 8;
    %if &i=8 %then %do;

    data group8;
      set in2.group5 in2.group6 in2.group7;
    run;

```

```

    %comb(group8,&y,&x,8);
%end;
%else %do;
    %comb(in2.group&i,&y,&x,&i);
%end;
%end;

%mend adjust;

/* adjust all the variables */

%macro comp(compno,a,b,c,d);
%if &a~= %then %do;
    %let n=r_&a;
    %let m=s_&a;
    %do i=1 %to 8;
        %let p&i=&a._&i;
    %end;
    %let grpnum=1;
    proc sort data=r_&a;
        by mpid;
    run;
%end;
%if &b~= %then %do;
    %let n=%str(&n r_&b);
    %let m=%str(&m s_&b);
    %do i=1 %to 8;
        %let p&i=%str(&&p&i &b._&i);
    %end;
    %let grpnum=2;
    proc sort data=r_&b;
        by mpid;
    run;
%end;
%if &c~= %then %do;
    proc sort data=r_&c;
        by mpid;
    run;
    %let grpnum=3;
    %let n=%str(&n r_&c);
    %do i=1 %to 8;
        %let p&i=%str(&&p&i &c._&i);
    %end;
    %let m=%str(&m s_&c); %end;

%if &d~= %then %do;
    proc sort data=r_&d;
        by mpid;
    run;
    %let grpnum=4;
    %let n=%str(&n r_&d);
    %do i=1 %to 8;
        %let p&i=%str(&&p&i &d._&i);
    %end;

    %let m=%str(&m s_&d);
%end;

data infile;
merge &n;
by mpid;
run;

proc corr outp=outf noprint;
var &n;
weight pweight;
run;

data final;
if _n_=1 then do;
    %if &a~= %then %do;
        set s_&a;
    %end;

```

```

%if &b~= %then %do;
  set s_&b;
%end;
%if &c~= %then %do;
  set s_&c;
%end;
%if &d~= %then %do;
  set s_&d;
%end;
end;
set outf;
call symput('s' || compress(_n_), substr(_name_, 3));
where _type_='CORR';
run;

data final;
set final;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
  %do i=1 %to &grpnum;
    if _name_="r_&&s&i" then
      sde=sde+r_val(i)*s_&&s&i*s_val(i);
    %end;
  end;
run;

data sefin&compno;
set final end=last;
tv+sde;
if last then do;
  sde=(tv**0.5)/&grpnum;
  output;
end;

%do i=1 %to 8;
  data temp(keep=&&p&i);
  merge &&p&i;
  run;

data output;
set &&p&i;
totadj+adjust;
run;

data output(keep=totadj);
set output end=last;
if last then do;
  totadj=totadj/&grpnum;
  output;
end;
run;

data out&compno._&i;
merge output temp;
run;

data out.comp&compno._&i;
merge out&compno._&i
      sefin&compno;
run;

%end;

%mend comp;

/* create composites */
proc sort data=in.bencha02 out=setup;
  by product;
run;
data setup;
set setup;
if ^(model in (2,4));

```

```

if disp in ('M10','I10') ;   ***KRR 04/19/04 Changed _02 to _03;
data setup;
  set setup; by product;
  mpid=_n_;
  if agegroup ne . then do;
    age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;

    if agegroup=1 then age1824=1;
    else if agegroup=2 then age2534=1;
    else if agegroup=3 then age3544=1;
    else if agegroup=4 then age4554=1;
    else if agegroup=5 then age5564=1;
    else if agegroup=6 then age6574=1;
  end;
  if agegroup<6;
run;
%INCLUDE "..\REPORTCARDS\CAHPS_AdultQ4FY2010\CONVERT.SAS";

%CONT2(DSN=SETUP, NUM=4, Y=R10018 R10047 R10027 R10031);
%CONT3(DSN=SETUP, NUM=12, Y=R10007 R10010 R10029 R10033
      R10021 R10022 R10023 R10024
      R10040 R10041 R10045 R10046);

/* GETTING NEEDED CARE */
%adjust(R10029,age1824 age2534 age3544 age4554 R10063);
%adjust(R10033,age1824 age2534 age3544 age4554 R10063);
%comp(1,R10029,R10033);

/* GETTING NEEDED CARE QUICKLY */
%adjust(R10007,age1824 age2534 age3544 age4554 R10063);
%adjust(R10010,age1824 age2534 age3544 age4554 R10063);
%comp(2,R10007,R10010);

/* HOW WELL DOCTORS COMMUNICATE */
%adjust(R10021,age1824 age2534 age3544 age4554 R10063);
%adjust(R10022,age1824 age2534 age3544 age4554 R10063);
%adjust(R10023,age1824 age2534 age3544 age4554 R10063);
%adjust(R10024,age1824 age2534 age3544 age4554 R10063);
%comp(3,R10021,R10022,R10023,R10024);

/* CUSTOMER SERVICE */
%adjust(R10040,age1824 age2534 age3544 age4554 R10063);
%adjust(R10041,age1824 age2534 age3544 age4554 R10063);
%comp(4,R10040,R10041);

/* CLAIMS PROCESSING */
%adjust(R10045,age1824 age2534 age3544 age4554 R10063);
%adjust(R10046,age1824 age2534 age3544 age4554 R10063);
%comp(5,R10045,R10046);

/* RATING ALL HEALTH CARE: 0 - 10 */
%adjust(R10018,age1824 age2534 age3544 age4554 R10063);
%comp(6,R10018);

/* RATING OF HEALTH PLAN: 0 - 10 */
%adjust(R10047,age1824 age2534 age3544 age4554 R10063);
%comp(7,R10047);

/* RATING OF PERSONAL DR: 0 - 10 */
%adjust(R10027,age1824 age2534 age3544 age4554 R10063);
%comp(8,R10027);

/* SPECIALTY CARE */
%adjust(R10031,age1824 age2534 age3544 age4554 R10063);
%comp(9,R10031);

```


G.3.D.1 Q4FY2010\PROGRAMS\BENCHMARK\QPREDTEST\SAS2STATA_Grps.SAS - CONVERTS THE GROUPS DATASETS FROM SAS TO STATA - RUN QUARTERLY.

```

*****
*
* PROGRAM: SAS2STATA_Grps.SAS
* TASK: Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the CAHPS BENCHA02 and GROUP1-8 Files to STATA format
*
* WRITTEN: 01/11/2008 BY KEITH RATHBUN
*
* INPUTS: 1) BENCHA02.sas7bdat - CAHPS Benchmark Scores Database
*          GROUPi.sas7bdat - Group Files created by STEP1.SAS
*          (where i = 1 -8 = group number)
*
* OUTPUTS: 1) BENCHA02.dta - CAHPS Benchmark Scores Database - STATA format
*           GROUPi.dta - Group Files created by STEP1.SAS - STATA format
*           (where i = 1 -8 = group number)
*
* MODIFIED:
*
* NOTES:
*
*****
* Assign data libraries and options
*****;
%LET QUARTER = Q4FY2010;
LIBNAME INBENCH "..\..\..\Q2FY2010\Programs\Benchmark\Data"; /*Use BENCHA02.sas7bdat from
Q2fy2010*/
LIBNAME INGROUP "..\..\ReportCards\cahps_adult&QUARTER.\data";

*****
* Convert CAHPS BENCHA02 to STATA format.
*****;
PROC EXPORT
  DATA = INBENCH.BENCHA02
  OUTFILE = "BENCHA02.DTA"
  DBMS = DTA
  REPLACE;
RUN;

*****
* Convert SAS Group files to STATA format.
*****;
%MACRO CONVERT2STATA;
  %DO I = 1 %TO 8;
    PROC EXPORT
      DATA = INGROUP.GROUP&I
      OUTFILE = "GROUP&I.DTA"
      DBMS = DTA
      REPLACE;
    RUN;
  %END;
%MEND CONVERT2STATA;

%CONVERT2STATA;

```

G.3.D.2 Q4FY2010\PROGRAMS\BENCHMARK\QPRELTEST\VARTEST.DO - CALCULATES PREDICTED ERRORS - RUN QUARTERLY.

```
/*
  Program: vartest.do
  Author: Eric Schone
  Modified: 1) 11/15/2006 Justin Oh, Added global variable "path"
            for assigning folder directory.
            2) 06/22/2009 Keith Rathbun, Changed fwrwt_v4 back to fwrwt
            and updated path for q3fy2009.

  WARNING - MUST EDIT THE GLOBAL PATH FOR EACH REPORTING PERIOD
*/
```

```
global path "L:\Q4FY2010\Programs\Benchmark"
```

```
program define initial
  version 7.0
```

```
  local i=1
  while `i'<9{

    gen str8 var=" "
    gen se=.
    saveold "$path\qpredtest\projerr`i'",replace
    clear
    local i=`i'+1
  }
end
```

```
program define stdlist1
  version 7.0
  local varlist required existing
  parse "`*"
  while "`1'~=""{
```

```
  use "$path\qpredtest\bencha02",clear
  keep if model~=2 & model ~=4
  keep if disp=="M10"|disp=="T10"
```

```
  gen ageund18=0 if agegroup~=.
  gen age1824=0 if agegroup~=.
  gen age2534=0 if agegroup~=.
  gen age3544=0 if agegroup~=.
  gen age4554=0 if agegroup~=.
  gen age5564=0 if agegroup~=.
  gen age6574=0 if agegroup~=.
```

```
  replace ageund18 = 1 if agegroup==0
  replace age1824 = 1 if agegroup==1
  replace age2534 = 1 if agegroup==2
  replace age3544 = 1 if agegroup==3
  replace age4554 = 1 if agegroup==4
  replace age5564 = 1 if agegroup==5
  replace age6574 = 1 if agegroup==6
  keep if agegroup<6
  replace `1'=10 if 8<=`1' & `1'<=10
  replace `1'=0 if `1'~=. & `1'<8
  replace `1'=`1'/10
  egen coun=count(`1'), by(product)
  gen wt=1/coun
  svyset strata product
  svyset pweight coun
```

```
  egen ct=count(`1'*age1824*r10063), by(product)
  keep if ct>1
```

```
drop ct
```

```
svyreg `1' age1824 age2534 age3544 age4554 age5564 r10063
```

```
local i=1
while `i'<9{
use "$path\qpredtest\group`i'",clear
collapse (mean) age1824 age2534 age3544 age4554 age5564 r10063 [aw=fwrwt]
predict se, stdp
keep se
gen str8 var=`1'
append using "$path\qpredtest\projerr`i'"
saveold "$path\qpredtest\projerr`i'",replace
local i=`i'+1
}
macro shift
}
end
program define stdlist2
version 7.0
local varlist required existing
parse "`*'"
```

```
while "`1'~=""{
```

```
use "$path\qpredtest\bencha02",clear
keep if model~=2 & model ~=4
keep if disp=="M10"|disp=="T10"
```

```
gen ageund18=0 if agegroup~=.
gen age1824=0 if agegroup~=.
gen age2534=0 if agegroup~=.
gen age3544=0 if agegroup~=.
gen age4554=0 if agegroup~=.
gen age5564=0 if agegroup~=.
gen age6574=0 if agegroup~=.
```

```
replace ageund18 = 1 if agegroup==0
replace age1824 = 1 if agegroup==1
replace age2534 = 1 if agegroup==2
replace age3544 = 1 if agegroup==3
replace age4554 = 1 if agegroup==4
replace age5564 = 1 if agegroup==5
replace age6574 = 1 if agegroup==6
keep if agegroup<6
replace `1'=0 if `1'~=. & `1'<3
replace `1'=1 if `1'>=2
egen coun=count(`1'), by(product)
gen wt=1/coun
svyset strata product
svyset pweight coun
```

```
egen ct=count(`1'*age1824*r10063), by(product)
keep if ct>1
drop ct
```

```
svyreg `1' age1824 age2534 age3544 age4554 age5564 r10063
```

```
local i=1
while `i'<9{
use "$path\qpredtest\group`i'",clear
collapse (mean) age1824 age2534 age3544 age4554 age5564 r10063 [aw=fwrwt]
predict se, stdp
keep se
gen str8 var=`1'
append using "$path\qpredtest\projerr`i'"
saveold "$path\qpredtest\projerr`i'",replace
```

```
local i=`i'+1
}
macro shift
}
end

set more 1

set mem 100m

log using "$path\qpredtest\varlog",replace
initial

use "$path\qpredtest\bencha02",clear
stdlist1 r10018 r10047 r10027 r10031
use "$path\qpredtest\bencha02",clear
stdlist2 r10029 r10033 r10040 r10041 r10007 r10010 r10021 r10022 r10023 r10024 r10045 r10046

log close
```

G.3.D.3 Q4FY2010\PROGRAMS\BENCHMARK\QPREDTEST\STATA2SAS_PROJ.SAS - CONVERTS THE PREDICTED ERRORS FROM STATA TO SAS - RUN QUARTERLY.

```
*****
*
* PROGRAM: STATA2SAS_Proj.SAS
* TASK: Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the PROJERR1-8 Files to SAS format
*
* WRITTEN: 01/11/2008 BY KEITH RATHBUN
*
* INPUTS: 1) PROJERRi.DTA - PROJERR Files created by VARTEST.DO
* (where i = 1 -8 = group number)
*
* OUTPUTS: 1) PROJERRi.sas7bdat - PROJERR Files created by VARTEST.DO - SAS format
* (where i = 1 -8 = group number)
*
* MODIFIED:
*
* NOTES:
*
*****
* Assign data libraries and options
*****;
LIBNAME OUT ".";

*****
* Convert the PROJERR1-8 Files to SAS format
*****;
%MACRO CONVERT2SAS;
  %DO I = 1 %TO 8;
    PROC IMPORT
      DATAFILE="projerr&i..dta"
      OUT=OUT.projerr&i
      DBMS=dta
      REPLACE;
    RUN;
  %END;
%MEND CONVERT2SAS;

%CONVERT2SAS;
```

G.3.D.4 Q4FY2010\PROGRAMS\BENCHMARK\QPREDTEST\PREDCOMP.SAS - COMPILES PREDICTED COMPOSITE ERRORS - RUN QUARTERLY.

```

/*****
/*
/* Project: HCSDB Adult Report Cards
/* Program: PREDCOMP.SAS
/* Purpose: Adult Report Card
/* Requires programs STEP1Q and STEP2Q.SAS
/*
/*****/
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=NO;
libname in ".";

%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,VAR5=,QCOUNT=);
%do i=1 %to 8;
  data temp&i(keep=x se);
    set in.projerr&i end=last;
    variance=se**2;
    %do j=1 %to &qcount;
      if upcase(var)="&&var&j" then t_var+variance;
    %end;
    if last then do;
      se=t_var**.5/&qcount;
      x=&i;
      output;
    end;
  %end;
  data in.comp&compos;
    set temp1 temp2 temp3 temp4 temp5 temp6 temp7 temp8;
run;

%MEND COMPOSIT;

*-----;
*-      set the parameters here      -;
*-----;
*****;
* call the macro for each composite;
*****;
%COMPOSIT (type=R,compos=1,var1=R10029,var2=R10033,qcount=2);
%COMPOSIT (type=R,compos=2,var1=R10007,var2=R10010,qcount=2);
%COMPOSIT (type=R,compos=3,var1=R10021,var2=R10022,var3=R10023,var4=R10024,qcount=4);
%COMPOSIT (type=R,compos=4,var1=R10040,var2=R10041,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R10045,var2=R10046,qcount=2);

```

G.3.E Q4FY2010\PROGRAMS\BENCHMARK\BENCHA04.SAS - CONVERT THE BENCHMARK SCORES DATABASE INTO THE WEB LAYOUT - RUN QUARTERLY.

```

*****
*
* PROGRAM:  BENCHA04.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the Benchmark Scores Database into the WEB layout
*
* WRITTEN: 06/01/2000 BY KEITH RATHBUN
*
* INPUTS:  1) Benchmark data sets with adjusted scores
*           (COMPn_i.SD2 where n = composite number and i = group number)
*
* OUTPUT:  1) BENCHA04.SD2 - Combined Benchmark Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*           and composite data sets
*
* MODIFIED: 1) Dec 2000 by Keith Rathbun: Updated variable names for
*           Q1 2000 Survey. For the quarterly survey group 8 (all benes)
*           is being used as the benchmark for all groups (1-8). Thus,
*           this group is copied and output to each of the other 7 groups.
*           2) 01/23/2002 by Mike Scott: Updated variable names to be consistent
*           with 2000 survey.
*           4) 04/15/2002 by Mike Scott - Updated variable names for
*           Q1 2002 Survey.
*           5) 03/21/2003 by Mike Scott - Updated for 2003 survey.
*           6) 06/26/2003 by Mike Scott - Updated for Q2 2003.
*           7) 07/03/2003 by Mike Scott - Added TIMEPD variable to be set to the period
*           or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
*           setting to 'Composite'.
*           8) 07/18/2003 by Mike Scott - Added TIMEPD to FREQ.
*           9) 10/21/2003 by Mike Scott - Updated for Q3 2003.
*           10) 03/23/2004 by Mike Scott - Updated for Q1 2004.
*           11) 06/15/2004 by Regina Gramss - Updated for Q2 2004.
*           12) 09/2004 by Regina Gramss - Updated for Q3 2004.
*           13) 05/2005 by Regina Gramss - Updated for Q1 2005.
*           14) 10/2005 by Regina Gramss - Updated for Q3 2005.
*           15) 03/24/2006 by Keith Rathbun - Updated for Q2 FY 2006.
*           Added MACRO loop to process the 8 groups.
*           16) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3.
*           17) 12/18/2007 by Justin Oh - Updated BENTYPE composite year to 2006 Q4.
*           18) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1.
*           19) 04/05/2007 by Justin Oh - Updated LIBNAME IN2 to be used for purchase RC
programs.
*           20) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3.
*           21) 01/10/2008 by Keith Rathbun - Updated for Q1 FY 2008.
*           22) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1.
*           23) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2.
*           24) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3.
*           25) 04/10/2009 by Mike Rudacille - Changed variable names to reflect
*           modifications to beneficiary reports necessary for V4
*           26) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3.
*           27) 12/17/2009 by Emma Ernst - Updated for Q1 2010
*           28) 03/02/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q1.
*           29) 06/19/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q2.
*           30) 08/28/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q3.
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - BENCHA01.SAS - Extract Benchmark variables
*   - BENCHA02.SAS - Recode Benchmark variables
*   - BENCHA03.SAS - Construct Scores and SEMEAN datasets
*
* 2) The output file (BENCHA04.SAS7BDAT) will be run through the
*   MAKEHTML.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN "DATA";

```

```
LIBNAME IN2 "qpredtest";
LIBNAME OUT "DATA";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
```

```
OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER;
```

```
*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\LOADWEB\LOADCAHQ.INC";
```

```
*****
*****
*
```

```
* Process Macro Input Parameters:
```

- * 1) CNUM = Composite or rating variable number (1-10)
- * 2) GNUM = Group number (1-8)
- * 3) NVAR = Number of variables in the composite
- * 4) VARS = List of individual variables for composite
- * 5) SE = List of individual standard error variables

```
*****;
%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
```

```
*****
* Assign value for BENTYPE composite year
*****;
%LET YEAR = "2010 Q3"; * Note that this is based on Calendar Year here;
```

```
*****
* Convert benchmark scores datasets into WEB layout.
*****;
%IF &CNUM<6 %THEN %DO;
```

```
DATA INP;
SET IN2.COMP&CNUM;
WHERE X=&GNUM;
```

```
DATA INP;
SET INP IN2.PROJERR&GNUM;
RENAME SE=SEX;
```

```
RUN;
%END;
%ELSE %DO;
```

```
DATA INP;
SET IN2.PROJERR&GNUM;
RENAME SE=SEX;
```

```
RUN;
%END;
```

```
DATA COMP&CNUM._&Gnum;
SET INP;
IF _N_=1 THEN
SET IN.COMP&CNUM._&GNUM;
LENGTH MAJGRP $30;
LENGTH REGION $25;
LENGTH REGCAT $26;
LENGTH BENTYPE $50;
LENGTH BENEFIT $34;
LENGTH TIMEPD $35; ***MJS 07/03/03 Added line;
```

```
*****
* For now, assign SIG = 0
*****;
SIG = 0;
```

```
*****
* Assign major group
*****;
```



```

MAJGRP = PUT(&Gnum,MAJGRPF.);

*****
* Assign Region and Regcat
*****;
REGION = "Benchmark";
REGCAT = "Benchmark";

*****
* Assign benefit and benefit type
*****;
IF      &CNUM = 1 THEN BENEFIT = "Getting Needed Care";
ELSE IF &CNUM = 2 THEN BENEFIT = "Getting Care Quickly";
ELSE IF &CNUM = 3 THEN BENEFIT = "How Well Doctors Communicate";
ELSE IF &CNUM = 4 THEN BENEFIT = "Customer Service";
ELSE IF &CNUM = 5 THEN BENEFIT = "Claims Processing";
ELSE IF &CNUM = 6 THEN BENEFIT = "Health Care";
ELSE IF &CNUM = 7 THEN BENEFIT = "Health Plan";
ELSE IF &CNUM = 8 THEN BENEFIT = "Primary Care Manager";
ELSE IF &CNUM = 9 THEN BENEFIT = "Specialty Care";

BENTYPE = "Composite";   ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
TIMEPD = PUT(&YEAR,$BENTYPF.);   ***MJS 07/03/03 Added;
IF &CNUM<6 THEN DO;
  IF X=&GNUM THEN DO;
*****
* Assign composite score and SEMEAN
*****;
  SCORE = TOTADJ;
  SEMEAN = SQRT(SDE**2+SESX**2);

*****
* Output composite score record for each REGION
*****;
  OUTPUT;
  END;
  END;
*****
* Now, output the individual score records
*****;
IF &NVAR GT 1|&CNUM>5 THEN DO;
  ARRAY ITEMS &VARS;
  ARRAY SE    &SE;
  LENGTH NAME $8;
  DO I = 1 TO DIM(ITEMS); DROP I;
    CALL VNAME(ITEMS(I),NAME);
    NAME = SUBSTR(NAME,1,6);
    SCORE = ITEMS(I);
    SEMEAN = SQRT(SE(I)**2+SESX**2);
    IF &NVAR GT 1 THEN
      BENTYPE = PUT(NAME,$BENTYPF.);
      TIMEPD = PUT(&YEAR,$BENTYPF.);   ***MJS 07/03/03 Added;
      IF COMPRESS(UPCASE(NAME))=COMPRESS(UPCASE(VAR)) THEN OUTPUT;
    END;
  END;
END;

KEEP MAJGRP
REGION
REGCAT
BENTYPE
BENEFIT
TIMEPD /*MJS 07/03/03 Added*/
SEMEAN
SCORE
SIG
;
RUN;

%MEND;

*****
*****
* Process each of the 8 Groups.
*****

```

```

*****;
%MACRO DOIT;
%DO I = 1 %TO 8;
*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=&I, NVAR=2, VARS=R10029_&I R10033_&I,
        SE=S_R10029 S_R10033);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=&I, NVAR=2, VARS=R10007_&I R10010_&I,
        SE=S_R10007 S_R10010);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=&I, NVAR=4, VARS=R10021_&I R10022_&I R10023_&I R10024_&I,
        SE=S_R10021 S_R10022 S_R10023 S_R10024);

*****
* COMPOSITE # 4.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=4, GNUM=&I, NVAR=2, VARS=R10040_&I R10041_&I,
        SE=S_R10040 S_R10041);

*****
* COMPOSITE # 5.
* CLAIMS PROCESSING.
*****;
%PROCESS(CNUM=5, GNUM=&I, NVAR=2, VARS=R10045_&I R10046_&I,
        SE=S_R10045 S_R10046);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=&I, NVAR=1, VARS=R10018_&I, SE=S_R10018);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R10047_&I, SE=S_R10047);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R10027_&I, SE=S_R10027);

*****
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R10031_&I, SE=S_R10031);
%END;
%MEND DOIT;
%DOIT;

*****
*****
* STACK up all of the files into one final output dataset.
*****
*****;
DATA OUT.BENCHA04;
  SET COMP1_1 COMP1_2 COMP1_3 COMP1_4 COMP1_5 COMP1_6 COMP1_7 COMP1_8
      COMP2_1 COMP2_2 COMP2_3 COMP2_4 COMP2_5 COMP2_6 COMP2_7 COMP2_8
      COMP3_1 COMP3_2 COMP3_3 COMP3_4 COMP3_5 COMP3_6 COMP3_7 COMP3_8

```

```

COMP4_1 COMP4_2 COMP4_3 COMP4_4 COMP4_5 COMP4_6 COMP4_7 COMP4_8
COMP5_1 COMP5_2 COMP5_3 COMP5_4 COMP5_5 COMP5_6 COMP5_7 COMP5_8
COMP6_1 COMP6_2 COMP6_3 COMP6_4 COMP6_5 COMP6_6 COMP6_7 COMP6_8
COMP7_1 COMP7_2 COMP7_3 COMP7_4 COMP7_5 COMP7_6 COMP7_7 COMP7_8
COMP8_1 COMP8_2 COMP8_3 COMP8_4 COMP8_5 COMP8_6 COMP8_7 COMP8_8
COMP9_1 COMP9_2 COMP9_3 COMP9_4 COMP9_5 COMP9_6 COMP9_7 COMP9_8
;
IF SCORE = . THEN DELETE;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: BENCHA04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHA04.SAS7BDAT - Combined Benchmark Scores Database in WEB layout";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES TIMEPD BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;

```

G.4.A Q4FY2010\PROGRAMS\REPORTCARDS\MPR_ADULTQ4FY2010\PRVCOMPQ.SAS - CALCULATE PREVENTIVE CARE COMPOSITE SCORES - RUN QUARTERLY.

```

*****
* Project: DoD Reporting and Analysis 6077-410
* Program: PRVCOMPQ.SAS
* Author: Chris Rankin
* Date: 12/22/2000
* Modified: 4/19/2001 By Keith Rathbun: Restrict population to
* xins_cov in(1,2,3,6). Use POSTSTR instead of
* adj_cell.
* Modified: 10/25/01 By Daniele Beahm: Because no poststratification
* was done for q3 2000, changed POSTSTR back to ADJ_CELL
* 04/09/02 modified macros the first three macros to create
* temporary datasets (instead of writing permanent datasets)
* 07/15/02 By Mike Scott: Changed HCS021 to HCS022 for Q2 2002.
* 01/12/03 By Mike Scott: Changed ADJ_CELL to COM_SAMP.
* 03/21/03 By Mike Scott: Changed HCS024 to HCS031 for Q2 2002.
* 04/01/03 By Mike Scott: Replaced HP_FLU with HP_CHOL.
* 04/30/03 By Mike Scott: Changed COM_SAMP to ADJ_CELL. Changed
* CMPNUM1 from 4 to 5 and CMPNUM2 from 4 to 3.
* 06/13/03 By Eric Schone. Changed composite mean & std err calculations
* to use weights from 2000 input data.
* 07/23/03 By Mike Scott: Removed ..\PROGRAMS\ from INCLUDE.
* 10/21/03 By Mike Scott: Updated for Q3 2003.
* 01/07/04 By Mike Scott: Updated for Q4 2003.
* 02/02/04 By Mike Scott: Set PRVVAR6, PRVVAR7, and PRVVAR8 in DATA NORMDATA
* to H04023, H04020, and H04031.
* 03/24/04 By Mike Scott: Updated for Q1 2004.
* 04/09/04 By Keith Rathbun: Added Service Affiliation variables to
* accomodate the consumer watch.
* 06/22/04 By Regina Gramss: Updated for Q2 2004.
* 09/2004 By Regina Gramss: Updated for Q3 2004, to use XTNEXREG
* vs. XREGION
* 01/2005 By Regina Gramss: Updated to create "Last conus_q" for
* Q4 2004, replace XTNEXREG with XSERVREG
* 04/2005 By Regina Gramss: Updated for Q1 2005 (update 2004 field names)
* 07/2005 By Regina Gramss: updated for Q2 2005
* 10/2005 By Regina Gramss: Updated for Q3 2005
* 12/2005 By Regina Gramss: Updated for Q4 2005
* 03/24/2006 By Keith Rathbun: Updated for Q2 FY 2006. Changed reference
* to ADJ_CELL in 2006 data to be STRATUM.
* 07/2006 By Justin Oh: updated for Q2 FY 2006
* 08/22/2006 By Justin Oh
* Changed XSERVREG for Overseas
* Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
* IF XINS_COV IN (3) THEN GROUP4 = 1
* Since only XINS_COV IN (1,2,3,6) is kept.
* Create XOCONUS for 2005 data.
* Added XREGION in the keep statement for NORMDATA.
* 10/04/2006 By Justin Oh Updated %LET INDATA and YRDATA.
* 11/15/2006 By Justin Oh Added FIELDAGE in 4 keep statements
* 12/22/2006 By Justin Oh Updated %LET INDATA and YRDATA HCS071_1.
* 04/05/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS072_1.
* 04/05/2007 By Justin Oh Added conditions for RC types
* ReportCards OR PurchasedReportCards.
* 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
* both Norm and Quarter datasets.
* 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
* Groups 1,3, and 4 for new reservists logic.
* 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
* Groups All, 4, 5, and 6.
* 09/04/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS074_1.
* 01/10/2008 By Keith Rathbun, Updated %LET INDATA and YRDATA HCS081_1.
* Also changed H07 variable names to be H08 to match 2008 survey
* 04/11/2008 By Justin Oh Updated %LET INDATA and YRDATA HCS082_1.
* 06/13/2008 By Keith Rathbun Updated %LET INDATA and YRDATA HCS083_1.
* 04/20/2009 By Mike Rudacille Changed RCTYPE and certain variable names for
* transition to V4 questionnaire.
* 06/22/2009 By Keith Rathbun Updated %LET INDATA and YRDATA HCS093_1.
* 09/30/2009 By Mike Rudacille Updated %LET INDATA and YRDATA HCS094_1.
* 12/17/2009 By Emma Ernst Updated %LET INDATA and YRDATA HCS101_1.
* Also changed H09 variables names to be H10 to match 2010 survey

```

```

*           03/02/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS102_1.
*           03/25/2010 By Mike Rudacille Changed HCS102_1 to HCS102_2.
*           Changed because HCS102_1 no longer contains FIELDAGE.
*           06/19/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS103_2.
*           08/28/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS104_2.
*
* Purpose:   Calculate MPR Preventive Care Composites
* Input:    HCSyyq_1.sas7bdat
* Output:   RFINAL.sas7bdat
*           CFINAL.sas7bdat
*           MFINAL.sas7bdat
*           SFINAL.sas7bdat
*
* Include
* Files:    LOADCAHPQ.INC
* Notes:    Next program is Loadmprq.sas
*
*           ***CHECK PARAMETER ASSIGNMENTS***
*****;

OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 MLOGIC MPRINT
        NOFMterr COMPRESS=YES;

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ****/
%LET RCTYPE = ReportCards;

LIBNAME IN           "..\..\..\DATA\AFINAL";
LIBNAME INNORM  v612  "..\..\..\..\2005\DATA";
LIBNAME OUT      ".";
LIBNAME LIBRARY  "..\..\..\DATA\AFINAL\FMTLIB";

%LET WGT=FWRWT;
%LET NORMWGT = CFWT;
%LET NORMDAT = HCS05A_1;

%LET DEBUG=Y;           /** Set to Y for Debug print of datasets **/
%LET INDATA=HCS104_2;

%LET YRDATA=HCS104_2;

/***** The following parameters are used in the Variance *****/
/***** calculation macro for region and catchment area *****/

%LET GRPNUM=8;           /** number of groups          **/
%LET COMPNUM=7;         /** number of variables      **/ /* RSG - 04/2005 changed from 8 to 7
(eliminate cholesterol*/
%LET REGNUM=15;         /** number of regions      **/ /* RSG - 01/2005 CHANGED TO FIT THE 16
CATEGORIES OF XSERVREG */
/* JSO 08/24/2006 (16 TO 15) Changed
Overseas Regions*/
%LET CATCHNUM=9999; /** number of catchment areas **/

%LET CMPNUM1=4;         /** number of variables in first composite **/ /*RSG 04/2005 Changed
CMPNUM1 from 5 to 4*/
%LET CMPNUM2=3;         /** number of variables in second composite **/ /*MJS 04/30/03 Changed
CMPNUM2 from 4 to 3*/

%LET COMPCNT=2;        /** number of composites          **/

**** set up benchmarks for preventive services ;
**** note -- these are the hp 2000 goals ;

%LET GOALVAR1= .90;     /** HP Goal for prenatal care          **/
%LET GOALVAR2= .70;     /** HP Goal for Mammography              **/
%LET GOALVAR3= .90;     /** HP Goal for Papsmear                 **/
%LET GOALVAR4= .95;     /** HP Goal for Blood Pressure check     **/
%LET GOALVAR5= .90;     /** access goals                          **/ /*04/2005 - RSG: DELETED
CHOLESTEROLE GOAL*/
%LET GOALVAR6= .90;
%LET GOALVAR7= .98;

%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";

/**** note -- output all data to a single dataset for macro */

```

```

/**** call                                     */
/**** MACROS are no longer called for catchment areas      */

/* 08/24/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY '..\..\..\2005\Data\fmtlib';

DATA NORMDATA(KEEP=XTNEXREG XSERVREG &WGT PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
              DENV1-DENV&COMPNUM XSERVAFF FIELDAGE);
              /* 11/15/2006 JSO Added FIELDAGE in the keep statement */

      set INNORM.&NORMDAT(KEEP=MPRID XINS_COV HP_BP HP_MAMOG HP_PAP HP_PRNTL XTNEXREG
                        XENR_PCM XBNFGRP ENBGSMPLE &NORMWGT ADJ_CELL DBENCAT
                        H05022 H05019 H05030 H05007 H05006 SERVAFF XREGION FIELDAGE);
              /* 08/24/2006 JSO Added XREGION in the keep statement to get XOCONUS */
              /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
              /* 05/10/2007 JSO Added H05006, DBENCAT in the keep statement */

*****
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
*****;

/*RSG 02/2005 Added codes to define XTNEXREG & XSERVAFF*/

      IF SERVAFF = 'A' THEN XSERVAFF = 1;           *Army;
      ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;     *Air Force;
      ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;     *Navy;
      ELSE XSERVAFF = 4;                           *Other/unknown;

      IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

      IF XTNEXREG = . THEN DELETE;

      IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

      NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
                        /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
      IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
      IF DBENCAT IN('GRD','IGR') AND H05006 = 3 THEN DO;
          NXNS_COV = 3;
          XENR_PCM = .;
      END;

      PRVVAR1=HP_PRNTL; /* prenatal care */
      PRVVAR2=HP_MAMOG; /* mammography */
      PRVVAR3=HP_PAP; /* papsmear */
      PRVVAR4=HP_BP; /* blood pressure */
      PRVVAR5=H05022; /* access var 1 */
      PRVVAR6=H05019; /* access var 2 */
      PRVVAR7=H05030; /* access var 3 */

/**** set up numerator and denominator for proportions ****/

      ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
      ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
      ARRAY DENOM(*) DENV1-DENV&COMPNUM;

      DO I = 1 TO &COMPNUM;
          IF I LE &CMPNUM1 THEN DO;
              IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
              ELSE NUMER(I)=0;
              IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
          END;
          ELSE IF I GT &CMPNUM1 THEN DO;
              IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
              ELSE NUMER(I)=0;
              IF PRVVAR(I) > 0 THEN DENOM(I)=1;
          END;
      END;
      DROP I;
      DENV4=1;

```

```

/* 08/22/2006, JSO Create XOCONUS for 2005 data */
IF XREGION=13 THEN XOCONUS=1;
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;

/*RSG 02/2005 Added codes to define XSERVREG CACSMPL*/

IF XTNEEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN XSERVREG = 13;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 14;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 15;
END;

RENAME &NORMWGT = &WGT;
run;

/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY "..\..\..\Data\afinal\fmtlib";

DATA &YRDATA(KEEP=BGROUP MHS USA XSERVAFF CACSMPL &WGT TMP_CELL
  PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
  DENV1-DENV&COMPNUM XTNEEXREG XSERVREG FIELDAGE);
/* 11/15/2006 JSO Added FIELDAGE in the keep statement */

SET IN.&INDATA(KEEP=XINS_COV HP_BP XTNEEXREG HP_MAMOG HP_PAP HP_PRNTL /*RSG 04/2005 DELETE
HP_CHOL*/
  XREGION SERVAFF XENR_PCM XBNFGRP ENBGSMPLE &WGT CACSMPL
  STRATUM H10010 H10007 H10004 H10003 D_HEALTH FIELDAGE DBENCAT);
/* 11/15/2006 JSO Added FIELDAGE in the keep statement */
/* 05/10/2007 JSO Added H07006, DBENCAT in the keep statement */

*****
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
*****;
IF SERVAFF = 'A' THEN XSERVAFF = 1; *Army;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; *Navy;
ELSE XSERVAFF = 4; *Other/unknown;

CELLP = 1;
LENGTH TMP_CELL 8;
TMP_CELL = STRATUM; /* Make STRATUM a numeric variable */

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 05/14/2007 added for reservists logic*/

```

```

/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR_PCM = .;
END;

PRVVAR1=HP_PRNTL;      /** prenatal care **/
PRVVAR2=HP_MAMOG;     /** mammography **/
PRVVAR3=HP_PAP;       /** papsmear **/
PRVVAR4=HP_BP;        /** blood pressure **/
/*RSG 04/2005 - delete cholesterol, renumber PRVVAR below*/
PRVVAR5=H10010;       /** access var 1 **/
PRVVAR6=H10007;       /** access var 2 **/
/* MER temporary workaround 06/30/09 */
PRVVAR7=2;

/**** set up numerator and denominator for proportions ****/

ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
ARRAY DENOM(*) DENV1-DENV&COMPNUM;

DO I = 1 TO &COMPNUM;
  IF I LE &CMPNUM1 THEN DO;
    IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
    ELSE NUMER(I)=0;
    IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
  END;
  ELSE IF I GT &CMPNUM1 THEN DO;
    IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
    ELSE NUMER(I)=0;
    IF PRVVAR(I) > 0 THEN DENOM(I)=1;
  END;
END;
DROP I;
DENV4=1;

MHS= 1; /* set up dummy for MHS-- include all observations */

/* 08/22/2006, JSO Create XOCONUS for 2005 data */
IF XREGION=13 THEN XOCONUS=1;
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN XSERVREG = 13;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 14;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 15;
END;

*****
* Assign indicator of CONUS based on XTNEXREG. CONUS stands for

```



```

* Contential United States it but includes both Alaska and Hawaii.
* 1/16/09 Changed CONUS to USA.
*****;
  IF XTNEXREG IN (1,2,3) THEN USA=1;                                /*RSG 01/2005 OVERALL
CONUS*/

  ELSE IF XTNEXREG = 4 THEN USA=2;

* Prime enrollees      *;

  IF (NXNS_COV IN (1,2,6) AND H10004>=2) THEN DO;
    BGROUP=1;
    OUTPUT;
  END;

* Enrollees with military PCMs */ /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  (XENR_PCM IN (1,2,6) AND H10004>=2) THEN DO;
  BGROUP=2;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  (XENR_PCM IN (1,2) AND H10004>=2) THEN DO;
  BGROUP=2;
  OUTPUT;
END;

* Enrollees with civilian PCMs */ /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  (XENR_PCM IN (3,7) AND H10004>=2) THEN DO;
  BGROUP=3;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  ((XENR_PCM IN (3) AND H10004>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added
9*/
  BGROUP=3;
  OUTPUT;
END;

* Nonenrollees *;

  IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
    BGROUP=4;                                /*JSO 07/30/2007, Added 9*/
    OUTPUT;
  END;

* Active duty      *;

  IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
    BGROUP=5;                                /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
  END;

* Active duty dependents *;

  IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
    BGROUP=6;                                /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
  END;

* Retirees *;

  IF XBNFGRP IN (3,4) THEN DO;
    BGROUP=7;
    OUTPUT;
  END;

* All beneficiaries *;

  BGROUP=8;
  OUTPUT;
RUN;

```

```

DATA HCSDB;
SET &YRDATA;
RUN;

*****
*** First, calculate standard errors and create      ***
*** a file for each analytical unit                 ***
*****;

PROC SORT DATA=HCSDB; BY TMP_CELL;
RUN;

*****
**** Sudaan macro to calculate standard errors      ****
**** there are three output datasets created        ****
**** (XTNEXREG, XSERVREG, MHS, XSERVAFF)           ****
**** Note: 7/10/2000 use CONUS for MHS             ****
**** Note: there are 8 variables and 8 groups      ****
**** Note: 1/16/09 Changed CONUS to USA           ****
*****;

%MACRO A_SUDAAN(TABLEVAR);

*** set the number of levels in the proc descript ***;
*** for region or catchment                        ***;

%IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
  %LET ENDNUM=4;
  %LET PREF=S;          /** dataset prefix for service affiliation data **/
%END;
%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
  %LET ENDNUM=&REGNUM;
  %LET PREF=R;          /** dataset prefix for region data **/
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %LET PREF=C;          /** dataset prefix for catchment
area data **/

%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
  %LET ENDNUM=4;          /** RSG 01/2005 Change level of conus to 4 **/
  %LET PREF=M;
%END;

%DO I=1 %TO &GRPNUM;          /** 8 groups **/

  %DO J=1 %TO &COMPNUM;          /** 7 variables **/

    DATA INDATA&I.&J(KEEP=&WGT MHS USA XSERVAFF XTNEXREG XSERVREG CACSMPL
      XSERVAFF NUMV&J DENV&J TMP_CELL);

      SET HCSDB;
      WHERE XSERVREG > 0 AND BGROUP=&I AND DENV&J > 0;
      %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
        IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE; /*RSG 01/2005 Delete Conus greater
than 4 which are not conus */
      %END;
      %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
        IF USA NE 1 THEN DELETE;
      %END;
      %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
        IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
      %END;
    RUN;

*** Calculate values for regions, catchment areas ****;

%IF %UPCASE(&TABLEVAR) NE USA %THEN %DO;

  PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
  WEIGHT &WGT;
  SETENV DECWIDTH=4;
  NEST TMP_CELL / MISSUNIT;
  VAR NUMV&J;
  TABLES &TABLEVAR;
  SUBGROUP &TABLEVAR;

```

```

        LEVELS &ENDNUM;
        OUTPUT SEMEAN/ TABLECELL=DEFAULT
        FILENAME=&PREF.GRP&I.V&J;
    RUN;

%END;
%ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;

**** No tables, levels, or subgroups needed ****;

        PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;
        SETENV DECWIDTH=4;
        NEST TMP_CELL / MISSUNIT;
        VAR NUMV&J;
        OUTPUT SEMEAN/ TABLECELL=DEFAULT
        FILENAME=&PREF.GRP&I.V&J;
    RUN;

%END;

**** first, put all variables into one dataset for each group ****;

        DATA &PREF.GRP&I.V&J;
        SET &PREF.GRP&I.V&J;
        IF SEMEAN NE .;
        MHS=1;
        %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
            USA=1;
        %END;
    RUN;

%IF &J=1 %THEN %DO;
        DATA &PREF.SEGRP&I;
        SET &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
        GROUP=&I;
        IF SEMEAN NE .;
        RENAME SEMEAN = SERRV&J;
    RUN;
%END;
%ELSE %DO;
        DATA &PREF.SEGRP&I;
        MERGE &PREF.SEGRP&I &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
        BY &TABLEVAR;
        GROUP=&I;
        RENAME SEMEAN = SERRV&J;
    RUN;
%END;
%END;

**** Put all data into one dataset ****
**** Note: changed output dataset ****
**** to include group ****;

%IF &I=1 %THEN %DO;

        DATA &PREF.SERR;
        SET &PREF.SEGRP&I;
        KEEP GROUP &TABLEVAR SERRV1-SERRV&COMPNUM;
    RUN;
%END;
%ELSE %DO;

        DATA &PREF.SERR;
        SET &PREF.SERR
        &PREF.SEGRP&I;
    RUN;
%END;

***** DEBUG PRINT *****;

%IF &DEBUG=Y %THEN %DO;
    %IF &I=&GRPNUM AND &PREF=R %THEN %DO;
        PROC PRINT DATA=&PREF.SERR;

```

```

        VAR &TABLEVAR GROUP SERRV1-SERRV&COMPNUM;
    RUN;
    %END;
%END;

%END;

%MEND A_SUDAAN;

%A_SUDAAN (USA);
%A_SUDAAN (XSERVAFF);
%A_SUDAAN (XSERVREG);
%A_SUDAAN (XTNEXREG);

*****
*** Next, calculate correlation coefficients          ***
*** and create a file for each analytical unit      ***
*****;

%MACRO GETCORR(BYVAR);

%IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
%ELSE %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;

PROC SORT DATA=HCSDB; BY &BYVAR;
RUN;

%DO I = 1 %TO &GRPNUM;

    PROC CORR NOPRINT DATA=HCSDB OUTP=&PREF.CORRC&I;
        %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %DO;
            WHERE BGROUP=&I AND 1 <= XSERVAFF <= 4;    /** RSG 0/2005 Change conus values to keep
to be between 1-4 **/
        %END;
        %IF %UPCASE(&BYVAR)=USA %THEN %DO;
            WHERE BGROUP=&I AND USA = 1;
        %END;
        %ELSE %DO;
            WHERE BGROUP=&I;
        %END;
        BY &BYVAR;
        VAR PRVVAR1-PRVVAR&COMPNUM;
        WITH PRVVAR1-PRVVAR&COMPNUM;
        WEIGHT &WGT;
    RUN;

    DATA &PREF.CORRC&I;
        SET &PREF.CORRC&I;
        WHERE _TYPE_="CORR";
        GROUP=&I;
        ARRAY OLD PRVVAR1-PRVVAR&COMPNUM;
        ARRAY NEW CORV1-CORV&COMPNUM;
        DO J = 1 TO &COMPNUM;
            NEW(J)=OLD(J);
        END;
        DROP J PRVVAR1-PRVVAR&COMPNUM;
    RUN;

    %IF &I=1 %THEN %DO;

        DATA &PREF.CORRC;
            SET &PREF.CORRC&I;
        RUN;

    %END;
    %ELSE %DO;

        DATA &PREF.CORRC;
            SET &PREF.CORRC
            &PREF.CORRC&I;
        RUN;

```

```

%END;
%IF &DEBUG=Y %THEN %DO;
  %IF &I=&COMPNUM AND &PREF=R %THEN %DO;
    PROC PRINT DATA=&PREF.CORRC;
      WHERE GROUP=1;
    RUN;
  %END;
%END;
%END;

*** Flatten dataset(for each region, condense matrix to one row) ***;

%DO K=1 %TO &COMPNUM;

  DATA &PREF.CORR&K;
  SET &PREF.CORRC;
  WHERE _NAME_ = "PRVVAR&K";
  ARRAY CORR (&COMPNUM) CORV1-CORV&COMPNUM;
  ARRAY CORR&K (&COMPNUM) CORV&K.1-CORV&K.&COMPNUM;
  DO L=1 TO &COMPNUM;
    CORR&K(L)=CORR(L);
  END;
  KEEP GROUP &BYVAR CORV&K.1-CORV&K.&COMPNUM;
  RUN;
%IF &K=1 %THEN %DO;
  DATA &PREF.CORR;
  SET &PREF.CORR&K;
  RUN;
%END;
%ELSE %DO;
  DATA &PREF.CORR;
  MERGE &PREF.CORR(IN=IN_1) &PREF.CORR&K(IN=IN_2);
  BY GROUP &BYVAR;
  RUN;
%END;
%IF &DEBUG=Y %THEN %DO;
  %IF &PREF=R %THEN %DO;
    PROC PRINT DATA=&PREF.CORR;
      WHERE GROUP=1;
    RUN;
  %END;
%END;
%END;

%MEND GETCORR;

%GETCORR(USA);
%GETCORR(XSERVAFF);
%GETCORR(XSERVREG);
%GETCORR(XTNEXREG);

*****
*** Macro to derive composites for each          *****
*** beneficiary group, level                    *****
*** output one dataset for each group          *****
*****;

%MACRO GETPROP(BYVAR);

  %LET START = %EVAL(&CMPNUM1+1);

  %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
  %ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
  %ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
  %ELSE %IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;

  PROC MEANS NWAY NOPRINT DATA=HCSDB;
  CLASS BGROUP &BYVAR;
  VAR NUMV1-NUMV&COMPNUM
  DENV1-DENV&COMPNUM;
  WEIGHT &WGT;
  OUTPUT OUT= &PREF.CMPSUM(DROP = _TYPE_)
  SUM = ;

```

```

RUN;
PROC MEANS NWAY NOPRINT DATA=normdata;
* CLASS &BYVAR;
VAR
    DENV1-DENV&COMPNUM;
WEIGHT &wgt.;
OUTPUT OUT= &PREF.norms(DROP = _TYPE_)
SUM = nrmv1-nrmv&compnum;
RUN;

PROC MEANS NWAY NOPRINT DATA=HCSDB;
CLASS BGROUP &BYVAR;
VAR DENV1-DENV&COMPNUM;
OUTPUT OUT=&PREF.DGFR(DROP=_TYPE_ _FREQ_)
SUM= NOBSV1-NOBSV&COMPNUM;
RUN;

data &pref.cmpsum;

if _n_=1 then set &pref.norms;
set &pref.cmpsum;
proc sort data=&pref.cmpsum; by bgroup &byvar;
DATA &PREF.CMPSUM;
MERGE &PREF.CMPSUM(RENAME=( _FREQ_=N_OBS))
&PREF.DGFR;
BY BGROUP &BYVAR;
%IF &PREF=M %THEN %DO; /** added 7/10/2000 **/
WHERE 1 <= XSERVAFF <= 4; /** RSG 01/2005 Change conus values to keep to be
between 1-4 **/
%END;
%ELSE %IF &PREF=C %THEN %DO;
WHERE USA = 1;
%END;

**** set up group variable **;

RENAME BGROUP=GROUP;;

**** set up proportions, and composites **;

ARRAY PROPORT PROPV1-PROPV&COMPNUM;
ARRAY NUMER NUMV1-NUMV&COMPNUM;
ARRAY DENOM DENV1-DENV&COMPNUM;
array norm nrmv1-nrmv&compnum;

DO J=1 TO DIM(PROPORT);
PROPORT(J) = NUMER(J)/DENOM(J);
END;
DROP J;

**** composites **;

** added goalvars to datastep, 5/30/2000 ;
** taken out of temporary array for variance calculations;
** and used, kept as variables ;

GOALVAR1=&GOALVAR1;
GOALVAR2=&GOALVAR2;
GOALVAR3=&GOALVAR3;
GOALVAR4=&GOALVAR4;
GOALVAR5=&GOALVAR5;
GOALVAR6=&GOALVAR6;
GOALVAR7=&GOALVAR7;
/*RSG 04/2005 - delete goal8 since chol eliminated*/

** the weight for preventive service is defined as the ;
** proportion of the denominator for that service to the ;
;
** composite denominator ;
** healthy people 2000 goals -- used as benchmarks ;

ARRAY SVCWGT(&COMPNUM) WGTV1-WGTV&COMPNUM;
ARRAY BMARK(&COMPNUM) GOALVAR1-GOALVAR&COMPNUM;

```

```

ARRAY WGTBMARK(&COMPNUM) WTDV1-WTDV&COMPNUM;
array comp(&compnum) cmpv1-cmpv&compnum;
cpden1=sum(of nrmv1-nrmv&compnum1);
cpden2=sum(of nrmv&start-nrmv&compnum);
DO K = 1 TO &COMPNUM;
  IF K < &START THEN SVCWGT(K)= norm(K)/CPDEN1;
  ELSE SVCWGT(K) = norm(K)/CPDEN2;
  WGTBMARK(K) = SVCWGT(K)*BMARK(K);
  comp(k)=svcwt(k)*proport(k);
END;
DROP K;
CPBMK1=SUM(OF WTDV1-WTDV&COMPNUM1);
CPBMK2=SUM(OF WTDV&START-WTDV&COMPNUM);
comp1=sum(of cmpv1-cmpv&compnum1);
comp2=sum(of cmpv&start-cmpv&compnum);
DROP WGTV1-WGTV&COMPNUM WTDV1-WTDV&COMPNUM
      NUMV1-NUMV&COMPNUM;
RUN;

%IF &DEBUG=Y AND &PREF=R %THEN %DO;
  PROC PRINT DATA=&PREF.CMPSUM; /* print out final dataset */
  RUN; /* for region to check */
%END;

%MEND GETPROP;

%GETPROP(USA);
%GETPROP(XSERVAFF);
%GETprop(XSERVREG);
%GETPROP(XTNEXREG);

*****
** since MHS benchmarks will be displayed ****
** set up adjustment factor to apply to ****
** each analytical unit's composite benchmarks ****
*****;

*****
*** Macro to merge 3 datasets for each *****
*** called by analytical unit *****
*** output final dataset for *****
*** XSERVAFF, XSERVREG, XTNEXREG, MHS (USA) *****
*****;

PROC FORMAT; /*RSG 02/2005 - hardcoded in prog to have caps vs format in loadcahq.inc*/
  VALUE REGIONF
    0 = "USA MHS "
    1 = "NORTH"
    2 = "SOUTH"
    3 = "WEST"
    4 = "OVERSEAS"
  ;
%MACRO GETSIG(BYVAR);

%LET START = %EVAL(&CMPNUM1+1);
%LET NEXT = %EVAL(&CMPNUM1+2);

%IF &BYVAR=XSERVREG %THEN %LET PREF=R;
%ELSE %IF &BYVAR=USA %THEN %LET PREF=C;
%ELSE %IF &BYVAR=XSERVAFF %THEN %LET PREF=M;
%ELSE %IF &BYVAR=XTNEXREG %THEN %LET PREF=S;

DATA OUT.&PREF.FINAL(KEEP= MAJGRP REGION REGCAT GOALVAR1-GOALVAR&COMPNUM
      SIGV1-SIGV&COMPNUM SCORV1-SCORV&COMPNUM
      CPSIG1-CPSIG&COMPNT CP1SE CP2SE
      CSCOR1-CSCOR&COMPNT CPBMK1-CPBMK&COMPNT
      SERRV1-SERRV&COMPNUM CP1SE CP2SE
      COMP1 COMP2 PROPV1-PROPV&COMPNUM
      DFSCR1-DFSCR&COMPNUM DF_CP1 DF_CP2
      NOBSV1-NOBSV&COMPNUM CPOBS1-CPOBS&COMPNT
      DENV1-DENV&COMPNUM CPDEN1-CPDEN&COMPNT);

```

```

FORMAT MAJGRP $30. REGION $25. REGCAT $26.;
MERGE &PREF.CMPSUM(IN=IN_PROP) &PREF.CORR
&PREF.SERR;
BY GROUP &BYVAR;
IF IN_PROP;
%DO Z=1 %TO &COMPNT;

    CSCOR&Z=COMP&Z.*100;

%END;
** MAJGRP -- text field for group **;
IF GROUP=1 THEN MAJGRP="Prime Enrollees ";
ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
ELSE IF GROUP=5 THEN MAJGRP="Active Duty ";
ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents ";
ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents ";
ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries ";

**** REGION AND REGCAT SETUP **;
%IF &PREF=S %THEN %DO;
    REGCAT=PUT(XTNEXREG,REGIONF.);
    REGION=PUT(XTNEXREG,REGIONF.);
%END;
%else %IF &PREF=C %THEN %DO;
    REGION="USA MHS";
    REGCAT="USA MHS";
%END;
%ELSE %IF &PREF=R %THEN %DO;
    REGION=PUT(XSERVREG, SERVREGO.);
    REGCAT=PUT(XSERVREG, SERVREGO.);
%END;
%ELSE %IF &PREF=M %THEN %DO;
    REGION=PUT(XSERVAFF,XSERVAFF.);
    REGCAT=PUT(XSERVAFF,XSERVAFF.);
%END;
grouping **/
**** setup t statistics, degrees of freedom **;
ARRAY TSTAT{&COMPNUM} T_V1-T_V&COMPNUM;
ARRAY BMARK{&COMPNUM} GOALVAR1-GOALVAR&COMPNUM;
ARRAY STNDERR{&COMPNUM} SERRV1-SERRV&COMPNUM;
ARRAY SERRSQR{&COMPNUM} SESQV1-SESQV&COMPNUM;
ARRAY DEGF{&COMPNUM} DFSCR1-DFSCR&COMPNUM;
ARRAY DENOM{&COMPNUM} DENV1-DENV&COMPNUM;
ARRAY PROPORT{&COMPNUM} PROPV1-PROPV&COMPNUM;
ARRAY SCORE{&COMPNUM} SCORV1-SCORV&COMPNUM;
ARRAY PVALUE{&COMPNUM} PVALV1-PVALV&COMPNUM;
ARRAY SIG{&COMPNUM} SIGV1-SIGV&COMPNUM;
ARRAY NOBS{&COMPNUM} NOBSV1-NOBSV&COMPNUM;
array norm{&compnum} nrmv1-nrmv&compnum;

** get the item variance, t-statistics, df, p-values **;
** and whether significant **;
DO I=1 TO &COMPNUM;
    SERRSQR{I}=STNDERR{I}**2; /* Item variance */
    SCORE{I}=PROPORT{I}*100; /* Score (prop. * 100) */
    IF STNDERR{I} > 0 THEN TSTAT{I}=(PROPORT{I}-BMARK{I})/STNDERR{I};
    ELSE TSTAT{I}=.;
    DEGF{I}=NOBS{I}-1;
    PVALUE{I}=(1-PROBT(ABS(TSTAT{I}),DEGF{I}))*2;
    IF PVALUE{I} GE .05 THEN SIG{I}=0;
    ELSE IF PVALUE{I} < .05 THEN DO;
        IF PROPORT{I} > BMARK{I} THEN SIG{I}=1;
        IF PROPORT{I} < BMARK{I} THEN SIG{I}=-1;
    END;
END;
DROP I;

** multiply each item pair std. errors and correlation coefficients **;
** preventive care composite **;
ARRAY SEwC1{&CMPNUM1} SEwV1-SEwV&CMPNUM1;

```



```

ARRAY SERRC1{&CMPNUM1} SERRV1-SERRV&CMPNUM1;
%DO J = 1 %TO &CMPNUM1;
  ARRAY SMEAN&J{&CMPNUM1} SEMV&J.1-SEMV&J.&CMPNUM1;
  ARRAY CORVAR&J{&CMPNUM1} CORV&J.1-CORV&J.&CMPNUM1;
  DO K=1 TO &CMPNUM1;
    SMEAN&J{K}=SERRV&J*SERRC1{K}*CORVAR&J{K}*norm{K}*nrmV&J;
  END;
  SEMV&J.&J=0;
  sewv&j= (nrmV&j**2)*SESQV&j;/** don't count in final standard error calculation **/
%END;
DROP K;
** multiply each item pair std. errors and correlation coefficients **;
** access to care composite **;

ARRAY SERRC2{&CMPNUM2} SERRV&START-SERRV&COMPNUM;
%DO L = &START %TO &COMPNUM;
  ARRAY SMEAN&L{&CMPNUM2} SEMV&L.&START-SEMV&L.&COMPNUM;
  ARRAY CORVAR&L{&CMPNUM2} CORV&L.&START-CORV&L.&COMPNUM;
  DO M=1 TO &CMPNUM2;
    SMEAN&L{M}=SERRV&L*SERRC2{M}*CORVAR&L{M};
  END;
  SEMV&L.&L=0; /** don't coun't in final standard error calculation **/
%END;
DROP M;
** calculate composite t-statistic, pvalue, and whether significant **;
** for composites **;
%DO P=1 %TO &COMPNUM;
  %IF &P=1 %THEN %DO;
    ** composite standard error comprised of two parts **;
    CP&P.SE1=SUM(OF SEwV1-SEwV&CMPNUM1);
    CP&P.SE2=SUM(OF SEMV11-SEMV&CMPNUM1.&CMPNUM1.);
    cobs&p=sum(of nobsv1-nobsv&cmpnum1);
  %END;
  %ELSE %DO;
    CP&P.SE1=SUM(OF SESQV&START-SESQV&COMPNUM);
    CP&P.SE2=SUM(OF SEMV&START.&START.-SEMV&COMPNUM.&COMPNUM.);
    cobs&p=sum(of nobsv&start-nobsv&compnum);
  %END;
  ** add the two parts of the composite standard error **;
  ** calculate the composite t statistics and p-values **;
  ** determine whether differences are sigificant **;

  CP&P.SE=SQRT(CP&P.SE2+CP&P.SE1)/CPden&P;
  IF CP&P.SE > 0 THEN CP_T&P.=(COMP&P.-CPBMK&P.)/CP&P.SE;
  ELSE CP_T&P.= .;
  DF_CP&P.=COBS&P. - 1;
  CP_P&P.=(1-PROBT(ABS(CP_T&P.),DF_CP&P.))*2;
  IF CP_P&P GE .05 THEN CPSIG&P=0;
  ELSE IF CP_P&P < .05 THEN DO;
    IF COMP&P. > CPBMK&P THEN CPSIG&P= 1;
    ELSE IF COMP&P. < CPBMK&P THEN CPSIG&P=-1;
  END;
%END;

  OUTPUT OUT.&PREF.FINAL;
RUN;

%MEND GETSIG;

%GETSIG(USA);
%GETSIG(XTNEXREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVAFF);

```

G.4.B Q4FY2010\PROGRAMS\REPORTCARDS\MPR_ADULTQ4FY2010\SMOKING_BMI.SAS - CALCULATES HEALTHY BEHAVIOR COMPOSITE SCORES - RUN QUARTERLY.

```

*****
*
* Project:   DoD Reporting and Analysis 6077-410
* Program:   SMOKING_BMI.SAS
* Purpose:   Calculate Smoking Rate and Smoking Cessation
*           for each region-service affiliation and
*           conus-service affiliation groups.
*
* Date:      1/31/2005
* Author:    Regina Gramss
*
* Modified:  1) 04/2005 By Regina Gramss, Updated for Q1 2005.
*           2) 12/2005 By Regina Gramss, Updated for Q4 2005.
*           3) 01/2006 By Regina Gramss - Updated for 2005 annual data. Normalize
*           with 2005 data and not 2000. Standardize using age/sex and MPCSMPL
*           (military personnel category). Update smoking cessation
*           calculation with new formula to correspond more to HEDIS. Use new
*           weight (CFWT) and use STRATUM as TMP_CELL.
*           4) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
*           5) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
*           6) 08/24/2006 By Justin Oh, REGNUM changed from 16 to 24.
*           Changed XSERVREG for Overseas
*           Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
*           IF XINS_COV IN (3) THEN GROUP4 = 1
*           Since only XINS_COV IN (1,2,3,6) is kept.
*           Create XOCONUS for 2005 data.
*           Added/Moved LIBRARY Libname to use both Quarter/Annual Formats.
*           7) 10/04/2006 By Justin Oh, Updated %LET DSN and CURRENT.
*           8) 12/22/2006 By Justin Oh, Updated %LET DSN HCS071_1 and CURRENT October, 2006.
*           9) 02/02/2007 By Justin Oh, Added "s" to Healthy Behaviors
*           10) 04/05/2007 By Justin Oh, Updated %LET DSN HCS072_1 and CURRENT January, 2007.
*           11) 04/05/2007 By Justin Oh, Added conditions for RC types
*           ReportCards OR PurchasedReportCards.
*           12) 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
*           both Norm and Quarter datasets.
*           13) 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
*           Groups 1,3, and 4 for new reservists logic.
*           14) 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
*           Groups All, 4, 5, and 6.
*           15) 09/04/2007 By Justin Oh, Updated %LET DSN HCS074_1 and CURRENT July, 2007.
*           16) 01/10/2008 By Keith Rathbun, Updated %LET DSN HCS081_1 and CURRENT October,
2007.
*           Also changed H07 variable names to be H08 to match 2008 survey.
*           17) 04/11/2008 By Justin Oh, Updated %LET DSN HCS082_1 and CURRENT January, 2008.
*           18) 06/13/2008 By Keith Rathbun, Updated %LET DSN HCS083_1 and CURRENT April, 2008.
*           19) 03/11/2009 By Keith Rathbun, Updated %LET DSN HCS092_1 and CURRENT January,
2009.
*           20) 04/20/2009 By Mike Rudacille, Switched from 2005 to 2007 benchmark data for
transition to
*           V4 questionnaire.
*           21) 05/05/2009 By Mike Rudacille, Updated for 2008 benchmark data.
*           22) 06/22/2009 By Keith Rathbun, Updated %LET DSN HCS093_1 and CURRENT April, 2009.
*           Changed weight variable from FWRWT_V4 back to FWRWT.
*           23) 09/30/2009 By Mike Rudacille, Updated %LET DSN HCS094_1 and CURRENT July, 2009.
*           24) 12/17/2009 by Emma Ernst, Updated %LET DSN HCS101_1 and CURRENT October, 2009.
*           Also changed H09 variables names to be H10 to match 2010 survey.
*           25) 03/02/2010 By Mike Rudacille, Updated %LET DSN HCS102_1 and CURRENT January,
2010.
*           26) 03/25/2010 By Mike Rudacille, Changed HCS102_1 to HCS102_2.
*           Changed because HCS102_1 no longer contains FIELDAGE.
*           27) 03/30/2010 By Mike Rudaiclle, Updated for 2009 benchmark data.
*           28) 06/19/2010 By Mike Rudacille, Updated %LET DSN HCS103_2 and CURRENT April,
2010.
*           29) 08/28/2010 By Mike Rudacille, Updated %LET DSN HCS104_2 and CURRENT July, 2010.
*
* Inputs:   1) HCS05A_1.SD2 - Annual 2005 Survey data
*           2) HCS103_2.sas7bdat - Q3 fy 2010 Survey data
*           3) AC2008DB.sas7bdat - 2009 CAHPS Benchmark Data
*
* Output:   1) SMOKE.sas7bdat

```

```

*
*
*****;

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr;

/** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ***/
%LET RCTYPE = ReportCards;

LIBNAME BENCH      "..\..\..\2009AdultChildNCBD\Adult";
LIBNAME INDAT     "..\..\..\Data\afinal";
LIBNAME INNORM v612 "..\..\..\2005\Data";
LIBNAME OUT       ".";

%LET DSN=HCS104_2;
%LET DSN_NORM=HCS05A_1;          /*JSO 08/24/2006, Changed Regions, 16 to 15*/
%LET REGNUM = 15;                /*RSG 01/2005 Number of Regions (with serv
affiliation)*/
%LET CONNUM = 4;                 /*RSG 01/2005 Number of Conus level (with serv
affiliation)*/
%LET CURRENT = July, 2010;
%LET WGT = FWRWT;
%LET NORMWGT = CFWT;
%LET CATCHNUM=9999;             /*RSG 02/2005 number of catchment areas **/

DATA BENCHA01;
  SET BENCH.AC2009DB (RENAME=(BIRTHYY=YOB));
  if product in (7,9) then model=4;
  if product=3 then model=2;          /*coded according to AC FORMATS.SAS*/
  if product=1 then model=1;
  if product=4 then model=6;
  if product=8 then model=5;
  if product=2 then model=3;
  product=planid;
  if ^(model in (2,4));
  if disp in ('M10','I10') ;
  if ac45_09 in (1,2) & ac46_09>=0 & ac46_09<=4; /*02/2006 RSG - REMOVED REQUIREMENT FOR
ADDITIONAL VISIT (ACC22 FIELD)*/
  cessbnch=0;
  if ac46_09>0 then cessbnch=1;

proc summary nway; class product;
var cessbnch;
output out=tbench mean=;
proc print;
proc summary;
var cessbnch;
output out=tbench mean=;
proc print;
data _null_;
set tbench;
call symput('CNSLGOAL',cessbnch);
run;

%LET NSMKGOAL = 0.88;

%LET BMIGOAL = 0.85;

%INCLUDE "..\..\LoadWeb\LOADCAHQ.INC";

PROC FORMAT;
VALUE AGEF
LOW - 34 = 1
35 - 49 = 2
50 - 64 = 3
65 - HIGH = 4;

/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY '..\..\..\2005\Data\fmtlib';

DATA NORMDATA (KEEP=TMP_CELL AGE_GRP XTNEEXREG XSERVREG XSERVAFF
SM_RATE SM_CESS SM_RTDN SM_CSDN BMI_DN BMI
TOTCON GROUP XSEXA &WGT. age_n MPCSMPL NXNS_COV);

```

```

                /* 05/10/2007 JSO Added NXNS_COV in the keep statement */
SET INNORM.&DSN_NORM.(DROP=&WGT.); /* 4/4/2006, KRR added drop so CFWT can renamed/used */
LENGTH AGE_N AGE_GRP TMP_CELL 8.;

IF      XREGION=13 THEN XOCONUS=1; /* 08/24/2006, JSO Create XOCONUS for 2005 data */
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;

TMP_CELL=STRATUM;

AGE_N = FIELDAGE;

AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE_GRP < 4;

IF SERVAFF = 'A' THEN XSERVAFF = 1;          *Army;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;    *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;    *Navy;
ELSE XSERVAFF = 4;                          *Other/unknown;

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN XSERVREG = 13;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 14;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 15;
END;

IF HP_SMOKH IN (1,2) THEN DO;
  SM_RATE = 0;
  IF HP_SMOKH = 2 THEN SM_RATE=1;
  SM_RTDN=1;
END;

if hp_smokh=1 & H05055>0 then do; /*RSG 02/2006 NEW SMOKING CESSATION FORMULA AS PER ERIC SCHONE */
  if H05055>1 then sm_cess=1;
  else sm_cess=0;
  sm_csdn=1;
end;

IF xbmicat > 0 THEN DO;
  BMI = 0;
  BMI_DN=1;
  IF xbmicat <=3 THEN BMI=1;
END;

IF XTNEXREG IN (1,2,3) THEN TOTCON=1;

ELSE IF XTNEXREG = 4 THEN TOTCON=2;

IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */

RENAME &NORMWGT = &WGT;

```

```

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H05006 = 3 THEN DO;
    NXNS_COV = 3;
    XENR_PCM = .;
END;

* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H05007>=2 THEN DO;
    GROUP=1;
    OUTPUT;
END;

* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    XENR_PCM IN (1,2,6) AND H05007>=2 THEN DO;
    GROUP=2;
    OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    XENR_PCM IN (1,2) AND H05007>=2 THEN DO;
    GROUP=2;
    OUTPUT;
END;

* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    XENR_PCM = 3 AND H05007>=2 THEN DO;
    GROUP=3;
    OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    ((XENR_PCM = 3 AND H05007>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added 9*/
    GROUP=3;
    OUTPUT;
END;

* nonenrollees;
IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
    GROUP=4; /*JSO 07/30/2007, Added 9*/
    OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
    GROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
    GROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
END;

* retirees;
IF XBNFGRP IN (3,4) THEN DO;
    GROUP=7;
    OUTPUT;
END;

* all beneficiaries;
GROUP=8;
OUTPUT;

RUN;

```

```

/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY '..\..\..\Data\afinal\fmtlib';

DATA SMOKE (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF TOTCON GROUP
           SM_RATE SM_CESS SM_RTDN SM_CSDN XSEXA &WGT BMI_DN BMI
           MPCSMPL NXNS_COV);/* 05/10/2007 JSO Added NXNS_COV in the keep statement */
SET INDAT.&DSN.;
LENGTH AGE_N AGE_GRP TMP_CELL 8.;

/* MER 4/20/09 - Restrict dataset to just non-zero V4 weights */
IF &WGT <= 0 THEN DELETE;

TMP_CELL=STRATUM;

AGE_N = FIELDAGE;

AGE_GRP = PUT(AGE_N, AGEF.);

IF AGE_GRP < 4;
IF SERVAFF='A' THEN XSERVAFF=1;           *Army;
ELSE IF SERVAFF='F' THEN XSERVAFF=2;     *Air Force;
ELSE IF SERVAFF='N' THEN XSERVAFF=3;     *Navy;
ELSE XSERVAFF=4;

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN XSERVREG = 13;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 14;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 15;
END;

IF XTNEXREG IN (1,2,3) THEN TOTCON=1;

ELSE IF XTNEXREG=4 THEN TOTCON=2;

IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR_PCM = .;
END;

IF HP_SMKH2 IN (1,2) THEN DO;
  SM_RATE = 0;
  IF HP_SMKH2 = 2 THEN SM_RATE=1;

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```

SM_RTDN=1;
END;

if hp_smkh2=1 & H10053>0 then do; /*RSG 02/2006 NEW SMOKING CESSATION FORMULA AS PER ERIC
SCHONE */
  if H10053>1 then sm_cess=1;
  else sm_cess=0;
  sm_csdn=1;
end;

IF xbmicat > 0 THEN DO;
  BMI = 0;
  BMI_DN=1;
  IF xbmicat <=3 THEN BMI=1;
END;

* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H10004>=2 THEN DO;
  GROUP=1;
  OUTPUT;
END;

* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM IN (1,2,6) AND H10004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  XENR_PCM IN (1,2) AND H10004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;

* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM = 3 AND H10004>=2 THEN DO;
  GROUP=3;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  ((XENR_PCM = 3 AND H10004>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added 9*/
  GROUP=3;
  OUTPUT;
END;

* nonenrollees;
IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
  GROUP=4; /*JSO 07/30/2007, Added 9*/
  OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
  GROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
  GROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;

* retirees;
IF XBNFGRP IN (3,4) THEN DO;
  GROUP=7;
  OUTPUT;
END;

* all beneficiaries;
GROUP=8;
OUTPUT;

```

```

RUN;

PROC SORT DATA=SMOKE;
BY TMP_CELL;
PROC SORT DATA=NORMDATA;
BY TMP_CELL;
RUN;

%MACRO A_SUDAAN(TABLEVAR, SMOKE, SMOKEVAR, DEN);

%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
    %LET ENDNUM=&REGNUM;
    %LET PREF=R;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
    %LET ENDNUM=&CONNUM;
    %LET PREF=M;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
    %LET ENDNUM=&CONNUM;
    %LET PREF=S;
%END;

%ELSE %IF %UPCASE(&TABLEVAR)=TOTCON %THEN %LET PREF=C;

%DO I = 1 %TO 8;

    DATA INDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEXA MPCSMPL
                    &SMOKEVAR. &DEN. TMP_CELL XTNEXREG);
    SET SMOKE;
    WHERE XSERVREG > 0 AND GROUP=&I. AND &DEN. >= 0;
    %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
        IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE;
    %END;
    %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
        IF TOTCON NE 1 THEN DELETE;
    %END;
    %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
        IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
    %END;
    RUN;

    DATA NORMDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEXA &SMOKEVAR. &DEN.
                    TMP_CELL XTNEXREG MPCSMPL);
    SET NORMDATA;
    WHERE XSERVREG > 0 AND GROUP=&I.;

    %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
        IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE;
    %END;
    %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
        IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
    %END;

    RUN;

    %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
        PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;
        SETENV DECWIDTH=4;
        NEST TMP_CELL / missunit;
        VAR &SMOKEVAR;
        TABLES AGE_GRP*XSEXA*MPCSMPL*&TABLEVAR.;
        SUBGROUP AGE_GRP XSEXA MPCSMPL &TABLEVAR.;
        LEVELS 8 2 2 &ENDNUM.;
        OUTPUT SEMEAN MEAN wsum nsum
            / TABLECELL=DEFAULT REPLACE
            FILENAME=&PREF.GRP&I.&SMOKE.;
        RUN;
    %END;
    %ELSE %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
        PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;

```



```

        SETENV DECWIDTH=4;
        NEST TMP_CELL / missunit;
        VAR &SMOKEVAR;
        TABLES AGE_GRP*XSEXA*MPCSMPL;
        SUBGROUP AGE_GRP XSEXA MPCSMPL;
        LEVELS 3 2 2;
        OUTPUT SEMEAN MEAN wsum nsum
            / TABLECELL=DEFAULT REPLACE
            FILENAME=&PREF.GRP&I.&SMOKE.;
    RUN;

%END;

%IF %UPCASE(&SMOKE) NE CS %THEN %DO;

    DATA &PREF.SER_&I.&SMOKE.;
    SET &PREF.GRP&I.&SMOKE.;
    GROUP=&I.;
    IF SEMEAN NE .;
    %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
        KEEP &TABLEVAR. GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
    %END;
    %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
        TOTCON=1;
        KEEP TOTCON GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
    %END;
RUN;

/* CREATE WEIGHTS FROM 2005 DATA*/
proc summary data=normdat&i. nway;
    var &WGT;
    where &den>0;
    class age_grp xsexa MPCSMPL;
    output out=norm_&i. sum=normwt;

    proc sort data=&pref.ser_&i.&smoke.;
    by age_grp xsexa mpcsmpl;

    data &pref.ser_&i.&smoke.;
    merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
    by age_grp xsexa mpcsmpl;
    if gin;
    wsum=wsum/normwt;
    nsum=nsum/normwt;
    sesq=normwt*semean**2;
    run;

    proc summary data=&pref.ser_&i.&smoke. nway;
    var mean semean sesq wsum nsum;
    class &tablevar.;
    weight normwt;
    output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)=
sumwgt(semean)=;
    run;

    data &pref.sert&i.&smoke;
    set &pref.sert&i.&smoke;
    group=&i.;
        semean=sqrt(sesq/semean);
    drop _type_ _freq_;
run;

%IF &I. = 1 %THEN %DO;

    DATA &PREF._&SMOKE.;
    SET &PREF.SERT&I.&SMOKE.;
    RUN;
%END;
%ELSE %DO;

    DATA &PREF._&SMOKE.;
        SET &PREF._&SMOKE. &PREF.SERT&I.&SMOKE.;
    RUN;

    PROC SORT DATA=&PREF._&SMOKE.;

```

```

        BY GROUP;
        RUN;

%END;

%END;
%IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
        PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;
        SETENV DECWIDTH=4;
        NEST TMP_CELL / missunit;
        VAR &SMOKEVAR;
        TABLES AGE_GRP*XSEX*&TABLEVAR.;
        SUBGROUP AGE_GRP XSEX& &TABLEVAR.;
        LEVELS 3 2 &ENDNUM.;
        OUTPUT SEMEAN MEAN wsum nsum
            / TABLECELL=DEFAULT REPLACE
            FILENAME=&PREF.GRP&I.&SMOKE.;

        RUN;

%END;
%ELSE %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
        PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;
        SETENV DECWIDTH=4;
        NEST TMP_CELL / missunit;
        VAR &SMOKEVAR;
        TABLES AGE_GRP*XSEX& ;
        SUBGROUP AGE_GRP XSEX& ;
        LEVELS 3 2 ;
        OUTPUT SEMEAN MEAN wsum nsum
            / TABLECELL=DEFAULT REPLACE
            FILENAME=&PREF.GRP&I.&SMOKE.;

        RUN;

%END;

%IF %UPCASE(&SMOKE) = CS %THEN %DO;

        DATA &PREF.SER_&I.&SMOKE.;
        SET &PREF.GRP&I.&SMOKE.;
        GROUP=&I.;
        IF SEMEAN NE .;
        %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
            KEEP &TABLEVAR. GROUP AGE_GRP XSEX& SEMEAN MEAN wsum nsum;
        %END;
        %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
            TOTCON=1;
            KEEP TOTCON GROUP AGE_GRP XSEX& SEMEAN MEAN wsum nsum;
        %END;

        RUN;

/* CREATE WEIGHTS FROM 2005 DATA*/
proc summary data=normdat&i. nway;
    var &WGT;
    where &den>0;
    class age_grp xsex&;
    output out=norm_&i. sum=normwt;

    proc sort data=&pref.ser_&i.&smoke.;
        by age_grp xsex&;

        data &pref.ser_&i.&smoke.;
        merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
        by age_grp xsex&;
        if gin;
        wsum=wsum/normwt;
        nsum=nsum/normwt;
        sesq=normwt*semean**2;
        run;

        proc summary data=&pref.ser_&i.&smoke. nway;
            var mean semean sesq wsum nsum;
            class &tablevar.;
            weight normwt;

```

```

output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)=
sumwgt (semean)=;
run;

data &pref.sert&i.&smoke;
set &pref.sert&i.&smoke;
group=&i.;
semean=sqrt(sesq/semean);
drop _type_ _freq_;
run;

%IF &I. = 1 %THEN %DO;

DATA &PREF._CESS;
SET &PREF.SERT&I.&SMOKE.;
RUN;
%END;
%ELSE %DO;

DATA &PREF._CESS;
SET &PREF._CESS &PREF.SERT&I.&SMOKE.;
RUN;

PROC SORT DATA=&PREF._CESS;
BY GROUP;
RUN;

%END;

%END;

%MEND;

%A_SUDAAN(XSERVAFF,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVAFF,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVAFF,BM,BMI,BMI_DN);
%A_SUDAAN(XSERVREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVREG,BM,BMI,BMI_DN);
%A_SUDAAN(XTNEXREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XTNEXREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XTNEXREG,BM,BMI,BMI_DN);
%A_SUDAAN(TOTCON,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(TOTCON,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(TOTCON,BM,BMI,BMI_DN);

%MACRO ADDIT(PREF, TYPE);

DATA &PREF._&TYPE;
SET &PREF._&TYPE;
LENGTH BENEFIT $34. BENTYPE $50.;

BENEFIT="Healthy Behaviors";
%IF &TYPE=RT %THEN %DO;
BENTYPE="Non-Smoking Rate";
%END;
%IF &TYPE=CESS %THEN %DO;
BENTYPE="Counselled To Quit";
%END;
%IF &TYPE = BM %THEN %DO;
BENTYPE = "Percent Not Obese";
%END;

RUN;

%MEND;

%ADDIT(C,RT);

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```

%ADDIT(C,CESS);
%ADDIT(C,BM);
%ADDIT(M,RT);
%ADDIT(M,CESS);
%ADDIT(M,BM);
%ADDIT(R,RT);
%ADDIT(R,CESS);
%ADDIT(R,BM);
%ADDIT(S,RT);
%ADDIT(S,CESS);
%ADDIT(S,BM);

%MACRO MAKEDATA(PREF, TABLEVAR);
  DATA &PREF._SMOKE;
  SET &PREF._RT
    &PREF._CESS
    &PREF._BM
;

LENGTH MAJGRP $30. REGION REGCAT $25.;

IF      GROUP=1 THEN MAJGRP="Prime Enrollees           ";
ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
ELSE IF GROUP=5 THEN MAJGRP="Active Duty               ";
ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents    ";
ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents    ";
ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries          ";

%IF &TABLEVAR = XSERVAFF %THEN %DO;
  IF XSERVAFF = 1 THEN REGION = 'ARMY';
  IF XSERVAFF = 2 THEN REGION = 'AIR FORCE';
  IF XSERVAFF = 3 THEN REGION = 'NAVY';
  IF XSERVAFF = 4 THEN REGION = 'OTHER';
%END;

%IF &TABLEVAR = XSERVREG %THEN %DO;
  REGION = PUT(XSERVREG,SERVREGO.); /*JSO 08/24/2006, Create new format for Overseas*/
%END;

%IF &TABLEVAR = XTNEXREG %THEN %DO;
  IF XTNEXREG=1 THEN REGION="NORTH";
  ELSE IF XTNEXREG=2 THEN REGION="SOUTH";
  ELSE IF XTNEXREG=3 THEN REGION="WEST";
  ELSE IF XTNEXREG=4 THEN REGION="OVERSEAS";
%END;

%IF &TABLEVAR = TOTCON %THEN %DO;
  REGION = "USA MHS";
%END;

  REGCAT=REGION;
  DROP GROUP &TABLEVAR;

  IF &TABLEVAR NE 0;

RUN;

%MEND MAKEDATA;

%MAKEDATA(M,XSERVAFF);
%MAKEDATA(C,TOTCON);
%MAKEDATA(R,XSERVREG);
%MAKEDATA(S,XTNEXREG);

DATA SMOKE;
SET M_SMOKE R_SMOKE S_SMOKE C_SMOKE;
SESQ = SEMEAN**2;
RENAME MEAN=SCORE wsum=n_wgt nsum=n_obs;

```

```

RUN;

/* CALCULATE COMPOSITE SCORE - AVERAGE RATE AND CESSATION*/

PROC SORT DATA=SMOKE;
BY MAJGRP REGION REGCAT;
RUN;

PROC SUMMARY DATA=SMOKE SUM;
BY MAJGRP REGION REGCAT;
VAR SCORE SESQ N_WGT N_OBS;
OUTPUT SUM= OUT=PRECOMP;
RUN;

DATA COMP(RENAME=(S_MEAN=SCORE S_SE=SEMEAN));
SET PRECOMP;
IF _FREQ_ = 3 THEN DO;
  S_MEAN=SCORE/3;
  S_SE=SQRT(SESQ)/3;
  N_OBS=round(N_OBS/3);
END;
ELSE DO;
  S_MEAN=.;
  S_SE=.;
END;
BENTYPE="Composite";
BENEFIT="Healthy Behaviors";
DROP _TYPE_ _FREQ_ SCORE SESQ;
RUN;

PROC SORT DATA=SMOKE;
BY MAJGRP BENTYPE;
RUN;

DATA BENCH;
SET SMOKE;
BY MAJGRP BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
  SCORE=&CNSLGOAL;
  SEMEAN=.;
  REGION="Benchmark";
  REGCAT="Benchmark";
  DROP N_WGT N_OBS;
  OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
  SCORE=&NSMKGOAL;
  SEMEAN=.;
  REGION="Benchmark";
  REGCAT="Benchmark";
  DROP N_WGT N_OBS;
  OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
  SCORE=&BMIGOAL;
  SEMEAN=.;
  REGION="Benchmark";
  REGCAT="Benchmark";
  DROP N_WGT N_OBS;
  OUTPUT;
  SCORE=(SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3;
  SEMEAN=.;
  REGION="Benchmark";
  REGCAT="Benchmark";
  BENTYPE="Composite";
  DROP N_WGT;
  OUTPUT;
END;
RUN;

PROC SORT DATA=SMOKE;
BY REGION BENTYPE;
RUN;

```

```

DATA BENCH2;
SET SMOKE;
BY REGION BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
  SCORE=&CNSLGOAL;
  SEMEAN=. ;
  MAJGRP="Benchmark";
  DROP N_WGT N_OBS;
  OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
  SCORE=&NSMKGOAL;
  SEMEAN=. ;
  MAJGRP="Benchmark";
  DROP N_WGT;
  OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
  SCORE=&BMIGOAL;
  SEMEAN=. ;
  MAJGRP="Benchmark";
  DROP N_WGT;
  OUTPUT;
  SCORE=(SUM(&CNSLGOAL, &NSMKGOAL, &BMIGOAL))/3;
  SEMEAN=. ;
  MAJGRP="Benchmark";
  BENTYPE="Composite";
  DROP N_WGT N_OBS;
  OUTPUT;
END;
RUN;

DATA SIG1;
SET SMOKE COMP;
IF BENTYPE='Non-Smoking Rate' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&NSMKGOAL)/SEMEAN;
  ELSE TSTAT=. ;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=. ;

  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &NSMKGOAL THEN SIG = 1;
    ELSE IF SCORE < &NSMKGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Counselled To Quit' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&CNSLGOAL)/SEMEAN;
  ELSE TSTAT=. ;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=. ;
  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &CNSLGOAL THEN SIG = 1;
    ELSE IF SCORE < &CNSLGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Percent Not Obese' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&BMIGOAL)/SEMEAN;
  ELSE TSTAT=. ;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=. ;
  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &BMIGOAL THEN SIG = 1;
    ELSE IF SCORE < &BMIGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Composite' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3))/SEMEAN;
  ELSE TSTAT=. ;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=. ;
  IF PVAL GE 0.05 THEN SIG=0;

```

```
ELSE IF PVAL < 0.05 THEN DO;
  IF SCORE > ((SUM(&NSMKGOAL, &CNLSLGOAL, &BMIGOAL))/3) THEN SIG = 1;
  ELSE IF SCORE < ((SUM(&NSMKGOAL, &CNLSLGOAL, &BMIGOAL))/3) THEN SIG = -1;
END;
END;

DROP TSTAT PVAL;
RUN;

DATA SMOKE_ALL;
SET SIG1 BENCH BENCH2;
TIMEPD="&CURRENT.";
RUN;

PROC SORT DATA=SMOKE_ALL OUT=OUT.SMOKE;
BY MAJGRP REGION REGCAT BENTYPE;
RUN;
```

G.4.C Q4FY2010\PROGRAMS\REPORTCARDS\MPR_ADULTQ4FY2010\LOADMPRQ.SAS - CONVERT THE MPR SCORES DATABASE INTO THE WEB LAYOUT - RUN QUARTERLY.

```

*
* Project:   DoD Reporting and Analysis 6077-410
* Program:   LOADMPRQ.SAS
* Purpose:   Calculate MPR Preventive Care Composites
* Date:      4/07/2000
* Author:    Chris Rankin
*
* Modified:  1) 05-08-2001 By Keith Rathbun, Added SEMEAN to LOADMPRQ.SD2
              to accommodate the Short Reports. Condensed some code.
*            2) 07-15-2002 By Mike Scott, Changed PERIOD to = "April, 2001
              to March, 2002".
*            3) 03-21-2003 By Mike Scott, Changed PERIOD to = "January, 2001
              to December, 2002".
*            4) 04-30-2003 By Mike Scott, Changed CMPNUM1 from 4 to 5, and
              changed the upper limits of both DO loops from 5 to 6 because
              of the addition of Cholesterol Testing.
*            5) 06-23-2003 By Mike Scott, Changed setting BENTYPE from &PERIOD
              to Composite. Added TIMEPD variable.
*            6) 06-26-2003 By Mike Scott, Updated for Q2 2003.
*            7) 10-21-2003 By Mike Scott, Updated for Q3 2003.
*            8) 01-07-2004 By Mike Scott, Updated for Q4 2003.
*            9) 03-24-2004 By Mike Scott, Updated for Q1 2004.
*            10) 06-22-2004 By Regina Gramss, Updated for Q2 2004.
*            11) 09/2004 By Regina Gramss, Updated for Q3 2004.
*            12) 01/2005 By Regina Gramss, Replaced XTNEKREG with XSERVREG
              to produce "last conus_q" for Q4 2005
*            13) 12/2005 By Regina Gramss, Updated for Q4 2005.
*            14) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
              %LET PERIOD = January, 2006 was the only change.
*            15) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
*            16) 08/24/2006 By Justin Oh, change DO REG = 1 TO 15 from 1 TO 16.
*            17) 10/04/2006 By Justin Oh, Updated %LET PERIOD.
*            18) 12/20/2006 By Justin Oh, Updated %LET PERIOD October, 2006.
*            19) 04/05/2007 By Justin Oh, Updated %LET PERIOD January, 2007.
*            20) 06/22/2007 By Keith Rathbun, Updated %LET PERIOD April, 2007.
*            21) 09/04/2007 By Justin Oh, Updated %LET PERIOD July, 2007.
*            22) 01/10/2008 By Keith Rathbun, Updated %LET PERIOD October, 2007.
*            23) 04/11/2008 By Justin Oh, Updated %LET PERIOD January, 2008.
*            24) 06/13/2008 By Keith Rathbun, Updated %LET PERIOD April, 2008.
*            25) 01/06/2009 By Mike Rudacille, Updated %LET PERIOD October, 2008.
*            26) 01/16/2009 By Mike Rudacille, Changed CONUS variable to USA.
*            27) 03/11/2009 By Keith Rathbun, Updated %LET PERIOD January, 2009.
*            28) 06/22/2009 By Keith Rathbun, Updated %LET PERIOD April, 2009.
*            29) 09/30/2009 By Mike Rudacille, Updated %LET PERIOD July, 2009.
*            30) 12/17/2009 By Emma Ernst, Updated %LET Period October, 2009.
*            31) 03/02/2010 By Mike Rudacille, Updated %LET PERIOD January, 2010.
*            32) 06/19/2010 By Mike Rudacille, Updated %LET PERIOD April, 2010.
*            33) 08/28/2010 By Mike Rudacille, Updated %LET PERIOD July, 2010.
*
* Input:     1) RFINAL.sas7bdat
*            2) CFINAL.sas7bdat
*            3) MFINAL.sas7bdat
*            4) SFINAL.sas7bdat
*            5) SMOKE.sas7bdat
*
* Output:    loadmprq.sas7bdat
*
* Note:      ***CHECK COMPNUM AND CMPNUM1 ASSIGNMENTS AND UPPER LIMIT OF DO LOOPS***
*

```

*****;

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2;

```

LIBNAME INLIB  ".";
LIBNAME OUT    ".";
LIBNAME LIBRARY "..\..\Data\afinal\fmtlib";

```

%LET CMPNUM1=4; /** number of questions in first composite ***/ /*RSG 04/2005 Changed 5 to 4*/


```

%LET PERIOD = July, 2010;
%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";

*****;
*** Note -- take out access to care questions and composite ***;
*****;

data mfinal(keep=cpbmk1 compress=no);
  set inlib.mfinal(keep=majgrp cpbmk1) INLIB.CFINAL (KEEP=MAJGRP CPBMK1);
  where majgrp="All Beneficiaries"; /*RSG 02/2005 Include CONUS MHS data*/
run;

data mfinal;
  if _n_=1 then set mfinal;
  set inlib.mfinal(drop=cpbmk1) INLIB.CFINAL(DROP=CPBMK1) ;
run;

proc sort data=mfinal; /*RSG 01/2005 - Added code to select only 1 record per majgrp */
by majgrp; /*using xservreg, there are now 4 conus areas which caused
duplicate benchmark calcs */
data mfinal;
set mfinal;
by majgrp;
if first.majgrp;
run;

*****;
**** Benchmarks **;
*****;

DATA BENCHMKS(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SIG);
  FORMAT MAJGRP $30. REGION $25. REGCAT $26. /* RSG 01/2005 Increase region format to
accommodate service affiliation */
  BENEFIT $34. BENTYPE $50. TIMEPD $35.; ***MJS 06/23/03 Added TIMEPD;
  SET MFINAL;

  ARRAY BENCHMK{*} GOALVAR1-GOALVAR&CMPNUM1 CPBMK1;
  DO I = 1 TO 5; ***RSG 04/2005 Changed 6 to 5;
    SCORE = BENCHMK{I}*100;
    SIG = .;
    REGION = "Benchmark";
    REGCAT = "Benchmark";
    BENEFIT = "Preventive Care";
    IF I = 1 THEN BENTYPE = "Prenatal Care";
    ELSE IF I = 2 THEN BENTYPE = "Mammography";
    ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
    ELSE IF I = 4 THEN BENTYPE = "Hypertension";
    /*RSG 04/2005 DELETED CHOLESTEROL*/
    ELSE IF I = 5 THEN BENTYPE = "Composite"; ***MJS 06/23/03 Changed &PERIOD to Composite;
    TIMEPD = "&PERIOD"; ***MJS 06/23/03 Added line;
  OUTPUT;
  END;
  DROP I;
RUN;

DATA BENCHMKS;
SET BENCHMKS;
OUTPUT;
IF MAJGRP = "All Beneficiaries" THEN DO;
  DO REG = 1 TO 15; DROP REG; /*JSO 08/24/2006, Changed Regions, 16 to 15*/
    MAJGRP = "Benchmark";
    REGION = PUT(REG,SERVREGO.);
    REGCAT = PUT(REG,SERVREGO.);
    OUTPUT;
  END;
  DO SERV = 1 TO 4; DROP SERV;
    MAJGRP = "Benchmark";
    REGION = PUT(SERV,XSERVAFF.);
    REGCAT = PUT(SERV,XSERVAFF.);
    OUTPUT;
  END;

  MAJGRP = "Benchmark";
  REGION = 'USA MHS';

```

```

    REGCAT = 'USA MHS';
    OUTPUT;
    MAJGRP = "Benchmark";
    REGION = 'NORTH';
    REGCAT = 'NORTH';
    OUTPUT;
    MAJGRP = "Benchmark";
    REGION = 'SOUTH';
    REGCAT = 'SOUTH';
    OUTPUT;
    MAJGRP = "Benchmark";
    REGION = 'WEST';
    REGCAT = 'WEST';
    OUTPUT;
    MAJGRP = "Benchmark";
    REGION = 'OVERSEAS';
    REGCAT = 'OVERSEAS';
    OUTPUT;
END;
RUN;

PROC FREQ DATA=BENCHMKS;
    TABLES MAJGRP/MISSING LIST;
RUN;

*****;
***** Scores **;
*****;

DATA SCORES(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG N_OBS N_WGT);
    FORMAT MAJGRP $30. REGION $25. REGCAT $26. /** RSG 01/2005 Increase region format to
accommodate service affiliation **/
    BENEFIT $34. BENTYPE $50. TIMEPD $35.; ***MJS 06/23/03 Added TIMEPD;
    SET INLIB.MFINAL INLIB.CFINAL
        INLIB.RFINAL INLIB.SFINAL;

    ARRAY SEMEANS{*} SERRV1-SERRV&CMPNUM1. CPLSE ;
    ARRAY SCORES{*} SCORV1-SCORV&CMPNUM1. CSCOR1;
    ARRAY SIGNIF{*} SIGV1-SIGV&CMPNUM1. CPSIG1;
    ARRAY NOBS{*} NOBSV1-NOBSV&CMPNUM1. CPOBS1;
    ARRAY NWGT{*} DENV1-DENV&CMPNUM1. CPDEN1;

DO I = 1 TO 5; ***RSG 04/2005 Changed 6 to 5;
    SCORE = SCORES{I};
    SEMEAN = SEMEANS{I};
    SIG = SIGNIF{I};
    N_OBS = NOBS{I};
    N_WGT = NWGT{I};
    BENEFIT = "Preventive Care";
    IF I = 1 THEN BENTYPE = "Prenatal Care";
    ELSE IF I = 2 THEN BENTYPE = "Mammography";
    ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
    ELSE IF I = 4 THEN BENTYPE = "Hypertension";
    /*RSG 04/2005 DELETED CHOLESTEROL*/
    ELSE IF I = 5 THEN BENTYPE = "Composite"; ***MJS 06/23/03 Changed &PERIOD to Composite;
    TIMEPD = "&PERIOD"; ***MJS 06/23/03 Added line;
    OUTPUT;
END;
RUN;

DATA LOADMPRQ (KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG
    N_OBS N_WGT);
SET BENCHMKS SCORES INLIB.SMOKE;
RUN;

PROC SORT DATA=LOADMPRQ OUT=OUT.LOADMPRQ;
BY MAJGRP REGION;
RUN;

```

G.5.A Q4FY2010\PROGRAMS\LOADWEB\FAKEQ.SAS - GENERATE THE WEB LAYOUT/TEMPLATE FILE - RUN QUARTERLY.

```
*****
* PROJECT: DOD Quarterly Survey, Consumer Reports (6077-410)
* PROGRAM: FAKEQ.SAS
* PURPOSE: Generate Fake Data for Report Cards
* AUTHOR: Mark A. Brinkley
*
* MODIFIED: 1) July 2000 By Eric Schone to utilize CACRPT and CATREP
*           include files.
*           2) February 2001 By Keith Rathbun - More updates for
*           Quarterly report card format. Made FAKE datastep into
*           a macro to handle multiple quarters. Added QTR and
*           PERIOD parameters.
*           3) July 2001 By Mark Brinkley - Updated for
*           Quarterly 2 reports
*           4) April 2002 By Keith Rathbun - Updated DSN and %LET
*           statements for 2002 reports and added TREND records.
*           Removed Flu Shot.
*           5) July 2002 By Mike Scott - Updated DSN and %LET statements
*           for Q2 2002 reports.
*           6) March 2003 By Mike Scott - Updated for 2003 survey.
*           7) June 2003 By Mike Scott - Added TIMEPD variable to be set to the period
*           or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
*           setting to 'Composite'. Updated for Q2 2003.
*           8) July 2003 BY Mike Scott - Above for K=7 through 10 in loop DO K=0 TO 11.
*           Added LOADCAHQ.INC.
*           9) October 2003 By Mike Scott - Updated for Q3 2003.
*           10) January 2004 By Mike Scott - Updated for Q4 2003.
*           11) March 2004 By Mike Scott - Updated for Q1 2004.
*           12) June 2004 By Regina Gramss - Updated for Q2 2004.
*           13) September 2004 By Regina Gramss - Updated for Q3 2004, to use XTNEXREG vs XREGION
*           14) January 2005 By Regina Gramss - Prepare "Last Conus_q" for Q4 2005
*           replace XTNEXREG with XSERVREG
*           15) April 2005 By Regina Gramss - Update for Q1 2005, delete cholesterol
*           bentype and include Healthy Behaviors composite and BMI bentype.
*           16) July 2005 By Regina Gramss - Update for Q2 2005.
*           17) October 2005 By Regina Gramss - Updated for Q3 2005
*           18) December 2005 By Regina Gramss - Updated for Q4 2005
*           19) March 2006 By Keith Rathbun - Updated for Q2 FY 2006
*           20) July 2006 By Justin Oh - Updated for Q3 FY 2006
*           21) 08/22/2006 By Justin Oh - Changed XSERVREG for Overseas
*           22) 10/03/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS063_1 to HCS064_1 for Q4FY2006 reports.
*           23) 02/02/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS064_1 to HCS071_1 for Q4FY2006 reports.
*           24) 04/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS071_1 to HCS072_1 for Q4FY2006 reports.
*           25) 06/22/2007 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS072_1 to HCS073_1 for Q3FY2007 reports.
*           26) 09/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS073_1 to HCS074_1 for Q4FY2007 reports.
*           27) 01/10/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS074_1 to HCS081_1 for Q1FY2008 reports.
*           28) 04/11/2008 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS081_1 to HCS082_1 for Q2FY2008 reports.
*           29) 06/13/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS082_1 to HCS083_1 for Q3FY2008 reports.
*           30) 10/02/2008 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS083_1 to HCS084_1 for Q4FY2008 reports.
*           31) 01/06/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS084_1 to HCS091_1 for Q1FY2009 reports.
*           32) 01/16/2009 By Mike Rudacille - Changed CONUS to USA.
*           33) 03/11/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS091_1 to HCS092_1 for Q2FY2009 reports.
*           34) 04/11/2009 By Mike Rudacille - Updated composite definitions
*           to reflect modifications to beneficiary reports necessary for V4
*           35) 06/22/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS092_1 to HCS093_1 for Q3FY2009 reports.
*           36) 09/30/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS093_1 to HCS094_1 for Q4FY2009 reports.
*           37) 12/17/2009 By Emma Ernst - Changed %LET PERIOD1- Period4
```

```

*          Changed input data to HCS10_1 for Q1FY2010
*      38) 03/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*          Changed input data HCS101_1 to HCS102_1 for Q2FY2010 reports.
*      39) 03/30/2010 By Mike Rudacille - Changed input data from
*          HCS102_1 to HCS102_2 (FIELDAGE no longer included in HCSyyq_1).
*      40) 06/19/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*          Changed input data HCS102_2 to HCS103_2 for Q3FY2010 reports.
*      41) 08/28/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*          Changed input data HCS103_2 to HCS104_2 for Q4FY2010 reports.
*
* INCLUDES: 1) CACRPT.INC - Report Card Catchment Definitions
*           2) CATREP.INC - Report Card Catchment Format Defns
*
*****;
%LET NUMQTR = 5;      ***MJS 06/18/03 Changed 4 to 5;

%LET PERIOD1 = October, 2009;
%LET PERIOD2 = January, 2010;
%LET PERIOD3 = April, 2010;
%LET PERIOD4 = July, 2010;

%LET PERIOD5 = Trend;      ***MJS 06/18/03 Added line;

%INCLUDE "LOADCAHQ.INC";      ***MJS 07/07/03 Added;

LIBNAME OUT      ".";
LIBNAME IN       "..\..\Data\AFinal";
LIBNAME LIBRARY  "..\..\Data\AFinal\fmtlib";

OPTIONS COMPRESS=YES NOFMterr;

*****
* CREATE TEMPORARY DATASET FOR RECODING CACSMPL TO BE COLLAPSED FOR
* REPORT CARD PURPOSES
* FOR QUARTERLY REPORTS CATCHMENT LEVEL REPORTING IS NOT DONE
* AND THEREFORE THE VALUE OF CELLP IS SET TO 1
* FOR ANNUAL REPORTING PURPOSES
* CELLP WILL NEED TO BE ASSIGNED TO GEOCELL (KEEP GEOCELL ON INPUT)
*****;

DATA TEMP;
  SET IN.HCS104_2;
  CELLP=1;
  *****
  * CODE FOR XSERVREG FROM XTNEXREG
  *****;
  IF SERVAFF='A' THEN XSERVREG=1;          *Army;
  ELSE IF SERVAFF='F' THEN XSERVREG=2;     *Air Force;
  ELSE IF SERVAFF='N' THEN XSERVREG=3;     *Navy;
  ELSE XSERVREG=4;

  IF XTNEXREG = 1 THEN DO;
    IF XSERVREG = 1 THEN XSERVREG = 1;
    ELSE IF XSERVREG = 2 THEN XSERVREG = 2;
    ELSE IF XSERVREG = 3 THEN XSERVREG = 3;
    ELSE XSERVREG = 4;
  END;

  IF XTNEXREG = 2 THEN DO;
    IF XSERVREG = 1 THEN XSERVREG = 5;
    ELSE IF XSERVREG = 2 THEN XSERVREG = 6;
    ELSE IF XSERVREG = 3 THEN XSERVREG = 7;
    ELSE XSERVREG = 8;
  END;

  IF XTNEXREG = 3 THEN DO;
    IF XSERVREG = 1 THEN XSERVREG = 9;
    ELSE IF XSERVREG = 2 THEN XSERVREG = 10;
    ELSE IF XSERVREG = 3 THEN XSERVREG = 11;
    ELSE XSERVREG = 12;
  END;
END;

```

```

        IF XTNEXREG = . THEN DELETE;

RUN;

proc freq;
table xservreg*cacsmp1/ noprint out=temp;
run;

data temp2;
length cafmt $26;
set temp end=last;
by xservreg;
    caf=0;
where cacsmp1 ne 9999;
    if first.xservreg then do; /* took out condition for xregion= 8 since using xservreg now */
        cafmt=put(xservreg,servregf.);
        output;
    end;
    cafmt=put(cacsmp1,catrep.);
    caf=1;
    if count>60 & cafmt ne 'INV' then output;
    if last then do;
        xservreg=0;
        caf=0;
        cafmt='Benchmark';
        output;
        /** RSG 01/2005 Add in codes for service affiliation categories **/

        caf=1;

        xservreg=13;
        cafmt='Overseas Europe';
        output;
        xservreg=14;
        cafmt='Overseas Pacific';
        output;
        xservreg=15;
        cafmt='Overseas Latin America';
        output;
        xservreg=16;
        cafmt = 'ARMY';
        output;
        xservreg=17;
        cafmt = 'AIR FORCE';
        output;
        xservreg=18;
        cafmt = 'NAVY';
        output;
        xservreg=19;
        cafmt = 'OTHER';
        output;
        xservreg=20;
        cafmt = 'NORTH';
        output;
        xservreg=21;
        cafmt = 'SOUTH';
        output;
        xservreg=22;
        cafmt = 'WEST';
        output;
        xservreg=23;
        cafmt = 'OVERSEAS';
        output;
        xservreg=24;
        cafmt = 'USA MHS';
        output;
        xservreg=25;
        cafmt = 'Europe Army';
        output;
        xservreg=26;
        cafmt = 'Europe Air Force';
        output;

```

```

        xservreg=27;
        cafmt = 'Europe Navy';
output;
        xservreg=28;
        cafmt = 'Europe Other';
output;
        xservreg=29;
        cafmt = 'Pacific Army';
output;
        xservreg=30;
        cafmt = 'Pacific Air Force';
output;
        xservreg=31;
        cafmt = 'Pacific Navy';
output;
        xservreg=32;
        cafmt = 'Pacific Other';
output;
        xservreg=33;
        cafmt = 'Latin America Army';
output;
        xservreg=34;
        cafmt = 'Latin America Force';
output;
        xservreg=35;
        cafmt = 'Latin America Navy';
output;
        xservreg=36;
        cafmt = 'Latin America Other';
output;
    end;
run;

/*RSG 04/2005 order region groups the way it should appear in reports*/
data temp3 (rename=(temp_r=xservreg));
    set temp2;
if      xservreg=0  then temp_r=1;
else if xservreg=24 then temp_r=2;
else if xservreg=16 then temp_r=3;
else if xservreg=18 then temp_r=4;
else if xservreg=17 then temp_r=5;
else if xservreg=19 then temp_r=6;
else if xservreg=20 then temp_r=7;
else if xservreg=1  then temp_r=8;
else if xservreg=3  then temp_r=9;
else if xservreg=2  then temp_r=10;
else if xservreg=4  then temp_r=11;
else if xservreg=21 then temp_r=12;
else if xservreg=5  then temp_r=13;
else if xservreg=7  then temp_r=14;
else if xservreg=6  then temp_r=15;
else if xservreg=8  then temp_r=16;
else if xservreg=22 then temp_r=17;
else if xservreg=9  then temp_r=18;
else if xservreg=11 then temp_r=19;
else if xservreg=10 then temp_r=20;
else if xservreg=12 then temp_r=21;
else if xservreg=23 then temp_r=22;
else if xservreg=13 then temp_r=23;
else if xservreg=14 then temp_r=24;
else if xservreg=25 then temp_r=25;
else if xservreg=26 then temp_r=26;
else if xservreg=27 then temp_r=27;
else if xservreg=28 then temp_r=28;
else if xservreg=29 then temp_r=29;
else if xservreg=30 then temp_r=30;
else if xservreg=31 then temp_r=31;
else if xservreg=32 then temp_r=32;
else if xservreg=33 then temp_r=33;
else if xservreg=34 then temp_r=34;
else if xservreg=35 then temp_r=35;
else if xservreg=36 then temp_r=36;
drop xservreg;
run;

```

```

proc sort;
by xservreg caf cafmt;
run;

data temp4;
set temp3 end=last;

start=_n_;
label=cafmt;
type='N';
fmtname='ROWMAT';
if last then call symput('x',_n_);

run;

proc format cntlin=temp4;

proc print data=temp4;
run;

%MACRO FAKE;
DATA FAKE;

KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD I K;    ***MJS 06/18/03 Added TIMEPD;

LENGTH MAJGRP $ 30
        REGION $ 25    /*RSG 01/2005 lengthen format to fit service affiliation*/
        REGCAT $ 26
        BENTYPE $ 50
        TIMEPD $ 35;    ***MJS 06/18/03 Added TIMEPD;

DO I=1 TO 8;          ** 8 Major groups **;

MAJGRP=PUT(I,MAJOR.);

DO J=1 TO &x;        ** Region/catchment **;

REGCAT=PUT(J,ROWMAT.);
RETAIN REGION;

**RSG 01/2005 Change code to fit XSERVREG values**;
IF SUBSTR(REGCAT,1,8) IN ('Benchmar','Overseas','OVERSEAS') OR
   SUBSTR(REGCAT,1,5)      IN      ('Pacif','Europ','Latin','North','South','West
','NORTH','SOUTH','WEST') OR
   REGCAT IN ('ARMY','AIR FORCE','NAVY','OTHER','USA MHS') THEN REGION=REGCAT;

DO K=1 TO 11;       ** 11 Benefits **;  /*** 04-11-09 MER ***/

BENEFIT=PUT(K,BEN.);

IF K=1 THEN DO;
DO L=1 TO 3;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;
BENTYPE=PUT(L,GETNCARE.);    ***that replaced BENTYPE hard assignment;
%DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
%END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
END;
END;
ELSE IF K=2 THEN DO;
DO L=1 TO 3;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;
BENTYPE=PUT(L,GETCAREQ.);    ***that replaced BENTYPE hard assignment;
%DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
%END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
END;
END;
ELSE IF K=3 THEN DO;
DO L=1 TO 5;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;

```

```

        BENTYPE=PUT(L,HOWWELL.);    ***that replaced BENTYPE hard assignment;
        %DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
        %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
END;
ELSE IF K=4 THEN DO;
    DO L=1 TO 3;                    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
        BENTYPE=PUT(L,CUSTSERV.);    ***that replaced BENTYPE hard assignment;
        %DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
        %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
END;
ELSE IF K=5 THEN DO;
    DO L=1 TO 3;                    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
        BENTYPE=PUT(L,CLMSPROC.);    ***that replaced BENTYPE hard assignment;
        %DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
        %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
END;
ELSE IF K=6 THEN DO;
    %DO Q = 1 %TO &NUMQTR;
        BENTYPE = "Composite";    ***MJS 07/07/03 Added;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
        %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
    END;
ELSE IF K=7 THEN DO;
    %DO Q = 1 %TO &NUMQTR;
        BENTYPE = "Composite";    ***MJS 07/07/03 Added;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
        %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
    END;
ELSE IF K=8 THEN DO;
    %DO Q = 1 %TO &NUMQTR;
        BENTYPE = "Composite";    ***MJS 07/07/03 Added;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
        %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
    END;
ELSE IF K=9 THEN DO;
    %DO Q = 1 %TO &NUMQTR;
        BENTYPE = "Composite";    ***MJS 07/07/03 Added;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
        %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
    END;
ELSE IF K=10 THEN DO;
    DO L=1 TO 5;                    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
        BENTYPE=PUT(L,PREVCARE.);    ***that replaced BENTYPE hard assignment;
        %DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
        %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
END;
ELSE IF K=11 THEN DO;                ***RSG 02/2005 Added for smoking scores.;
    DO M=1 TO 4;
        BENTYPE=PUT(M,SMOKEF.);
        %DO Q = 1 %TO &NUMQTR;
            TIMEPD = "&&PERIOD&Q"; OUTPUT;
        %END;
    END;
END;
END;

```



```

        END;
    END;
END;
RUN;
%MEND FAKE;
%FAKE;

/**** 12-13 MAB ****/
/**** Since quarterly files won't have catchment level data then delete ****/
DATA FAKE;
    SET FAKE;
    IF REGION=REGCAT;
RUN;

/**** 12-13 MAB ****/
/**** Need to create single benchmarks for ALL major groups ****/
DATA EXTRA;
    SET FAKE;
    IF MAJGRP="Prime Enrollees" AND REGION=REGCAT AND REGION^="Benchmark";
    MAJGRP="Benchmark";
RUN;
/**** Combine extra data with fake ****/
DATA FAKE;
    SET EXTRA FAKE;
RUN;

/**** Need to clean up data ****/
DATA OUT.FAKEQ;
    SET FAKE;

/**** Need to set oddball records to missing ****/
IF REGION="Benchmark" THEN SIG=.;
if region=''|compress(regcat)='.' then delete;

/**** Don't populate catchment areas for 4 major groups ****/
*IF I IN(3,4,6,7) AND REGION^=REGCAT THEN DELETE;          /**** 12-13 MAB ****/

DROP I K;

RUN;

PROC FREQ;
    TABLES MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG;    ***MJS 07/21/03 Added TIMEPD;
RUN;

ENDSAS;

```

G.5.B Q4FY2010\PROGRAMS\LOADWEB\MERGFINQ.SAS - MERGE THE FINAL CAHPS AND MPR SCORES DATABASES INTO THE WEB LAYOUT - RUN QUARTERLY.

```

*****
*
* PROGRAM:  MERGFINQ.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE: Merge the final CAHPS and MPR Scores Databases
*          into the WEB layout preserving the order of the FAKEQ.SD2.
*
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from MERGFINL.SAS.
*
* INPUTS:  1) MPR and CAHPS Individual and Composite data sets with adjusted
*          scores, and benchmark data for quarterly DoD HCS.
*          - LOADMPRQ.SD2 - MPR Scores Database
*          - LOADCAHQ.SD2 - CAHPS Scores Database
*          - BENCHA04.SD2 - CAHPS Benchmark Database
*          - FAKEQ.SD2   - WEB Layout in Column order
*
* OUTPUT:  1) MERGFINQ.SD2 - Combined Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*          and composite data sets
*
* MODIFIED: 1) 07/15/2002 by Mike Scott: Updated libnames for Q2 2002.
*          2) 03/21/2003 by Mike Scott: Updated for 2003 survey.
*          3) 07/09/2003 by Mike Scott: Updated for Q2 2003. Added TIMEPD to KEYS.
*          4) 07/23/2003 by Mike Scott: Added TIMEPD to FREQs and PRINT.
*          5) 10/21/2003 by Mike Scott: Updated for Q3 2003.
*          6) 01/07/2004 by Mike Scott: Updated for Q4 2003.
*          7) 03/24/2004 by Mike Scott: Updated for Q1 2004.
*          8) 06/22/2004 by Regina Gramss: Updated for Q2 2004.
*          9) 09/2004   by Regina Gramss: Updated for Q3 2004, Use XTNEXREG vs XREGION
*          10) 01/2005  by Regina Gramss: Changed XTNEXREG to XSERVREG to compile
*              "Last conus_q" for Q4 2005
*          11) 04/2005  by Regina Gramss: Updated for Q1 2005
*          12) 07/2005  by Regina Gramss: updated for Q2 2005
*          13) 10/2005  by Regina Gramss: Updated for Q3 2005
*          14) 12/2005  by Regina Gramss: Updated for Q4 2005
*          15) 07/2006  by Justin Oh: Updated for Q3 FY 2006
*          16) 08/22/2006 by Justin Oh: Change DO REG = 1 TO 15 from 1 TO 16
*          17) 10/03/2006 by Justin Oh - Changed libname in2 and in3 for Q4FY2006.
*          18) 12/20/2006 by Justin Oh - Changed libname in2 and in3 for Q1FY2007.
*          19) 04/05/2007 by Justin Oh - Changed libname in2 and in3 for Q2FY2007.
*          20) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
*              ReportCards OR PurchasedReportCards.
*          21) 04/05/2007 by Justin Oh - Added %LET BCHTYPE to select BCH types
*              Benchmark OR PurchasedBenchmark.
*          22) 09/05/2007 by Justin Oh - Changed libname in2 and in3 for Q4FY2007.
*          23) 01/10/2008 by Keith Rathbun - Changed libname in2 and in3 for Q1FY2008.
*          24) 04/11/2008 by Justin Oh - Changed libname in2 and in3 for Q2FY2008.
*          25) 06/13/2008 by Keith Rathbun - Changed libname in2 and in3 for Q3FY2008.
*          26) 10/02/2008 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2008.
*          27) 01/06/2009 by Mike Rudacille - Changed libname in2 and in3 for Q1FY2009.
*          28) 01/16/2009 by Mike Rudacille - Changed CONUS to USA.
*          29) 03/11/2009 by Keith Rathbun - Changed libname in2 and in3 for Q2FY2009.
*          30) 06/23/2009 by Keith Rathbun - Changed libname in2 and in3 for Q3FY2009.
*          31) 09/30/2009 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2009.
*          32) 12/17/2009 by Emma Ernst- Changed libname in2 and in3 for Q1FY2010.
*          33) 03/02/2010 by Mike Rudacille - Changed libname in2 and in3 for Q2FY2010.
*          34) 06/19/2010 by Mike Rudacille - Changed libname in2 and in3 for Q3FY2010.
*          35) 08/28/2010 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2010.
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1Q.SAS      - Recode questions and generate CAHPS group files
*   - STEP2Q.SAS      - Calculate CAHPS individual adjusted scores for groups 1-7
*   - COMPOSIT.SAS     - Calculate composite adjusted scores for group 1-8
*   - PRVCOMPQ.SAS     - Calculate MPR individual and composite scores
*   - BENCHA01-04.SAS - Convert Benchmark Scores into WEB layout
*   - LOADCAHQ.SAS     - Convert Quarterly CAHPS Scores Database into WEB layout
*   - LOADMPRQ.SAS     - Convert Quarterly MPR Scores Database into WEB layout

```

```

*
* 2) The output file (MERGFINQ.SD2) will be run through the
*   MAKEHTMQ.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ****/
%LET RCTYPE = ReportCards;

/**** SELECT PROGRAM - Benchmark OR PurchasedBenchmark              ****/
%LET BCTYPE = Benchmark;

LIBNAME IN1  ".";
LIBNAME IN2  "CAHPS_ADULTQ4FY2010\Data";
LIBNAME IN3  "..\&RCTYPE\MPR_AdultQ4FY2010";
LIBNAME IN4  "..\&BCTYPE\Data";
LIBNAME OUT  ".";
LIBNAME LIBRARY  "..\..\DATA\AFINAL\FMTLIB";

OPTIONS PS=79 LS=232 COMPRESS=YES NOCENTER;      ***MJS 07/23/03 Changed LS from 132;

%INCLUDE "LOADCAHQ.INC";

*****
* Construct ORDERing variable from WEB layout
*****;
DATA ORDER;
  SET IN1.FAKEQ;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));      ***MJS 07/09/03 Added TIMEPD;
  KEEP KEY ORDER;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;

*****
* Merge the Scores Databases
*****;
DATA MERGFINQ;
  SET IN2.LOADCAHQ(IN=INCAHPQ)
      IN3.LOADMPRQ(IN=INMPRQ )
      IN4.BENCHA04(IN=INBENQ );
  SVCAHPQ = INCAHPQ;
  SVMPRQ  = INMPRQ;
  SVBENQ  = INBENQ;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));      ***MJS 07/09/03 Added TIMEPD;
  KEYLEN=LENGTH(KEY);
  KEYTEST=LENGTH(BENEFIT)+LENGTH(BENTYPE)+LENGTH(MAJGRP)+LENGTH(REGION)+LENGTH(TIMEPD);
  OUTPUT;
  IF INBENQ THEN DO;
    IF MAJGRP = "All Beneficiaries" THEN DO;
      DO REG = 1 TO 24; DROP REG; /*JSO 08/24/2006, Changed Regions, 16 to 24*/
        MAJGRP = "Benchmark";
        REGION = PUT(REG,SERVREGF.);
        REGCAT = PUT(REG,SERVREGF.);
        KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
              UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
              UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));      ***MJS 07/09/03 Added
TIMEPD;
        OUTPUT;
      END;
      DO SERV = 1 TO 4; DROP SERV;      ***RSG 02/2005 Add in serv
affiliation;
        MAJGRP = "Benchmark";
        REGION = PUT(SERV,XSERVAFF.);
        REGCAT = PUT(SERV,XSERVAFF.);

```

```

        KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
              UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
              UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;
END;

MAJGRP = "Benchmark";
REGION = 'NORTH';
REGCAT = 'NORTH';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'Overseas Europe';
REGCAT = 'Overseas Europe';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'Overseas Pacific';
REGCAT = 'Overseas Pacific';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'Overseas Latin America';
REGCAT = 'Overseas Latin America';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'SOUTH';
REGCAT = 'SOUTH';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'WEST';
REGCAT = 'WEST';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'OVERSEAS';
REGCAT = 'OVERSEAS';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'USA MHS';
REGCAT = 'USA MHS';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

END;
END;
IF SCORE = . THEN DELETE;

```

```

RUN;

PROC SORT DATA=MERGFINQ; BY KEY; RUN;

*****
* Append ORDERING variable to the merged Scores database file
*****;
DATA MERGFINQ MISSING;
  MERGE MERGFINQ(IN=IN1) ORDER(IN=IN2);
  BY KEY;

  LENGTH FLAG $30;
  IF IN1 AND IN2 THEN FLAG = "IN SCORES DB AND LAYOUT";
  ELSE IF IN1 THEN FLAG = "IN SCORES DB ONLY";
  ELSE IF IN2 THEN FLAG = "IN LAYOUT ONLY";

  LENGTH SOURCE $30;
  IF SVCAHPQ = 1 THEN SOURCE = "CAHPS ";
  IF SVMPRQ = 1 THEN SOURCE = "MPR ";
  IF SVBENQ = 1 THEN SOURCE = "BENCHMARK ";

  IF IN1 AND NOT IN2 THEN OUTPUT MISSING; *Missing from layout;
  IF IN1 THEN OUTPUT MERGFINQ;
RUN;

*****
* Reorder file according to WEB layout
*****;
PROC SORT DATA=MERGFINQ OUT=OUT.MERGFINQ; BY ORDER; RUN;

DATA FAKEQ;
  SET IN1.FAKEQ;
  ORDER = _N_;
RUN;

DATA LAYONLY;
  MERGE FAKEQ(IN=IN1) OUT.MERGFINQ(IN=IN2 KEEP=ORDER);
  BY ORDER;
  IF IN1 AND NOT IN2;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: MERGFINQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB Layout";
TITLE4 "Program Outputs: MERGFINQ.sas7bdat - Merged Final Scores Database for input to
MAKEHTML.SAS";

TITLE5 "MERGFINQ.sas7bdat Data source counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES SOURCE FLAG SVCAHPQ SVMPRQ SVBENQ
      SVCAHPQ*SVMPRQ*SVBENQ
      /MISSING LIST;
RUN;

TITLE5 "MERGFINQ.sas7bdat Data attribute counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/23/03 Added TIMEPD*/
      REGION*REGCAT
      /MISSING LIST;
RUN;

TITLE5 "LAYONLY Data attribute counts";
PROC FREQ DATA=LAYONLY;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/23/03 Added TIMEPD*/
      REGION*REGCAT
      /MISSING LIST;
RUN;

TITLE5 "No matching record found in LAYOUT file (FAKEQ.sas7bdat)";
PROC PRINT DATA=MISSING;
VAR MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD; ***MJS 07/23/03 Added TIMEPD;
RUN;

```

G.6 Q4FY2010\PROGRAMS\LOADWEB\CONUS_Q.SAS - GENERATE CAHPS CONUS SCORES AND PERFORM SIGNIFICANCE TESTS - RUN QUARTERLY.

```

*****
*
* PROGRAM: CONUS_Q.SAS
* TASK: Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE: Generate CAHPS CONUS scores and perform significance tests.
*
* WRITTEN: 11/13/2000 BY KEITH RATHBUN, Adapted from CONUS_A.SAS.
* Merged SIGNIF_A.SAS funtionality.
*
* MODIFIED: 1) 04/10/2002 BY KEITH RATHBUN, Update for 2002 survey:
* changed code to process 4 rolling quarters.
* 2) 04/30/2002 By Eric Schone, to calculate & test trend.
* 3) 07/17/2002 BY MIKE SCOTT, Updated %LET statements for
* Q2 2002.
* 4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
* 5) 07/08/2003 BY MIKE SCOTT, Updated for Q2 2003. Changed BENTYPE="%PERIOD4"
* to BENTYPE="Composite". Added TIMEPD to KEY and FREQ.
* 6) 07/23/2003 BY MIKE SCOTT, Added TIMEPD constraint to DATA LASTQTR.
* 7) 10/21/2003 BY MIKE SCOTT, Updated for Q3 2003.
* 8) 01/07/2004 BY MIKE SCOTT, Updated for Q4 2003.
* 9) 01/28/2004 BY MIKE SCOTT, Updated LSTCONUS to point to Q3_2003t.
* 10) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
* 11) 06/22/2004 BY REGINA GRAMSS, Updated for Q2 2004, Added conditions
* to avoid error messages in data sigtest2 step (ensure degree of freedom
* is not zero for the probt function) and data trend steps (ensure division
* by zero is not taking place).
* 12) 09/2004 BY REGINA GRAMSS, Updated for Q3, 2004. Added in codes
* for trend calculations (per Eric Schone). Revised to use XTNEXREG.
* 13) 01/2005 BY REGINA GRAMSS, Changed codes for XTNEXREG to XSERVREG
* to incorporate service affiliation into regions. Change
* adjustments made to trend calculation to what was previous.
* 14) 06/2005 BY REGINA GRAMSS, Included relevant codes from TOTAL_Q.SAS
* to consolidate both programs into one. TOTAL_Q.SAS will no longer
* be used. Also put in codes to set trend score to missing if any of the
* previous scores are missing.
* 15) 10/2005 BY REGINA GRAMSS, Updated for Q3 2005
* 16) 12/2005 BY REGINA GRAMSS, Updated for Q4 2005
* 17) 07/2006 BY Justin Oh, Updated for Q3 FY 2006
* 18) 10/03/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 19) 12/20/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 20) 02/02/2007 By Justin Oh - Added "s" to Healthy Behaviors.
* 21) 02/16/2007 By Justin Oh - Added if statement to change BENEFIT
* "Heathly Behavior" to Healthy "Behaviors" for the Last CONUS_Q.SD2 data
* 22) 04/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 23) 04/05/2007 by Justin Oh - Added %LET BCHTYPE to select BCH types
* Benchmark OR PurchasedBenchmark.
* 24) 04/05/2007 by Justin Oh - Added changes to select RC types
* ReportCards OR PurchasedReportCards.
* 25) 10/03/2007 by Justin Oh - Removed code that removed Civilian PCM.
* IF "&RCTYPE" = 'ReportCards' AND
* MAJGRP="Enrollees with Civilian PCM" THEN DELETE;
* 26) 10/03/2007 by Justin Oh - Removed %LET BCHTYPE to select BCH types
* Benchmark OR PurchasedBenchmark.
* 27) 09/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 28) 01/10/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 29) 04/11/2008 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 30) 10/02/2008 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 31) 01/06/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS
* 32) 01/16/2009 By Mike Rudacille - Changed CONUS to USA where appropriate
* 33) 03/11/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS
* 34) 04/11/2009 By Mike Rudacille - Changed BENTYPE and Composite definitions

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*          to reflect modifications to beneficiary reports necessary for V4
*          35) 06/22/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*          36) 09/30/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*          37) 12/17/2010 by Emma Ernst- Changed %LET PERIOD1 - PERIOD4.
*              Changed %LET LSTCONUS
*          38) 03/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*          39) 06/19/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*          40) 08/28/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*
* INPUTS:  1) MERGFINQ.sas7bdat - Scores Database in WEB Layout
*          2) FAKQ.sas7bdat - Scores Database WEB Layout
*          3) CONUS_Q.sas7bdat - Previous Quarters Combined CAHPS/MPR Scores Database in WEB
layout
*
* OUTPUT:  1) TOTAL_Q.sas7bdat - Combined CAHPS/MPR Scores Database in WEB layout
*          2) LT30Q.sas7bdat - Records with <= 30 observations
*          3) CONUS_Q.sas7bdat - Current Quarters Combined CAHPS/MPR Scores Database in WEB
layout
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1Q.SAS - Recode questions and generate group files
*   - STEP2Q.SAS - Calculate individual adjusted scores for group 1-7
*   - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*   - LOADCAHPQ.SAS - Combine all questionnaire (CAHPS) scores together
*   - PRVCOMPQ.SAS - Calculate preventative measure scores for group1-8
*   - SMOKING_BMI.SAS - Calculate healthy behaviors scores for group1-8
*   - LOADMPRQ.SAS - Combined preventative and healthy behaviors scores
*   - MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases
*
*****
* Assign data libraries and options
*****;

LIBNAME IN1  ".";
LIBNAME OUT  ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT MLOGIC;

*****;
* Define GLOBAL parameters for last CONUSQ.sas7bdat, rolling quarters, and
* input dataset name.
*
* IMPORTANT: Update these GLOBALS each quarter prior to rerunning program.
*****;
%LET LSTCONUS = ..\..\Q3FY2010t\Programs\Loadweb;

%LET PERIOD1 = October, 2009;
%LET PERIOD2 = January, 2010;
%LET PERIOD3 = April, 2010;
%LET PERIOD4 = July, 2010;

%LET DSN      = MERGFINQ;

*****;
* Set up empty template file for data merge purposes and set first time flag
*****;
DATA INIT;
  SET IN1.&DSN;
  DELETE;
RUN;
%LET FLAG = 0;
*****
*
* Process Macro Input Parameters:
*
* 1) BENTYPE = Benefit Type

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* 2) MAJGRP = Major Group
* 3) TYPE = INDIVIDUAL or COMPOSITE
* 4) BENEFIT = COMPOSITE Benefit Type
*
*****;
%MACRO PROCESS(BENTYPE=,MAJGRP=,TYPE=,BENEFIT=);
DATA TEMP;
  SET IN1.&DSN END=FINISHED;
  %IF "&TYPE" = "INDIVIDUAL" %THEN %DO;
    WHERE BENTYPE = "&BENTYPE" AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
      /*SUBSTR(REGION,1,5) NOT IN("Bench","USA") AND*/
      /*SUBSTR(REGCAT,1,5) NOT IN("Bench","USA") AND*/
      SUBSTR(REGION,1,5) NE "Bench" AND SUBSTR(REGION,1,3) NE "USA" AND
      SUBSTR(REGCAT,1,5) NE "Bench" AND SUBSTR(REGCAT,1,3) NE "USA" AND
      REGION NOT IN ("ARMY","AIR FORCE","NAVY","OTHER");
  %END;
  %ELSE %IF "&TYPE" = "COMPOSITE" %THEN %DO;
    WHERE BENTYPE = &BENTYPE AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
      BENEFIT = "&BENEFIT" AND
      /*SUBSTR(REGION,1,5) NOT IN("Bench","USA") AND*/
      /*SUBSTR(REGCAT,1,5) NOT IN("Bench","USA") AND*/
      SUBSTR(REGION,1,5) NE "Bench" AND SUBSTR(REGION,1,3) NE "USA" AND
      SUBSTR(REGCAT,1,5) NE "Bench" AND SUBSTR(REGCAT,1,3) NE "USA" AND
      REGION NOT IN ("ARMY","AIR FORCE","NAVY","OTHER");
  %END;
  %ELSE %DO;
    PUT "ERROR - Invalid Type = &TYPE";
  %END;

  IF SUBSTR(REGION,1,5) IN ('North','South') THEN DO;
    IF SUBSTR(REGION,1,5)='North' THEN REGCON=1;
    ELSE IF SUBSTR(REGION,1,5)='South' THEN REGCON=2;
    TOTCON=1;
    IF SUBSTR(REGION,7,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,7,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,7,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,4)='West' THEN DO;
    REGCON=3;
    TOTCON=1;
    IF SUBSTR(REGION,6,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,6,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,6,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,6)='Europe' THEN DO;
    REGCON=4;
    TOTCON=2;
    IF SUBSTR(REGION,8,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,8,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,8,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,7)='Pacific' THEN DO;
    REGCON=5;
    TOTCON=2;
    IF SUBSTR(REGION,9,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,9,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,9,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,13)='Latin America' THEN DO;
    REGCON=6;
    TOTCON=2;
    IF SUBSTR(REGION,15,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,15,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,15,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
END;

```

```
RUN;
```



```

*****;
* RSG 01/2005 Calc. total Service Affiliation Scores          *;
*****;
PROC SORT DATA=TEMP;
BY SERVICE;

DATA TEMP2;
SET TEMP;
BY SERVICE;
length key $200;
IF FIRST.SERVICE THEN DO;
SUMSCOR1 = 0;    RETAIN SUMSCOR1;
SUMWGT1 = 0;    RETAIN SUMWGT1;
SUMSE2 = 0;    RETAIN SUMSE2;
SUMWGT2 = 0;    RETAIN SUMWGT2;
N_OBS1 = 0;    RETAIN N_OBS1;
END;

IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
IF N_OBS NE . THEN N_OBS1 + N_OBS;

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY;    ***MJS 07/08/03 Added TIMEPD;

IF LAST.SERVICE THEN DO;

IF SUMWGT1 NOTIN (.,0) THEN DO;
SCORE = SUMSCOR1/SUMWGT1;
SEMEAN = SQRT(SUMSE2)/SUMWGT1;
END;
ELSE DO;
SCORE = .;
SEMEAN = .;
END;

N_OBS = N_OBS1;
N_WGT = SUMWGT1;
SOURCE = "USA";
FLAG = "USA";
IF SERVICE=1 THEN REGION = "ARMY";
IF SERVICE=2 THEN REGION = "AIR FORCE";
IF SERVICE=3 THEN REGION = "NAVY";
IF SERVICE=4 THEN REGION = "OTHER";
REGCAT = REGION;
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/08/03 Added TIMEPD;
OUTPUT;
END;
RUN;
*****;
* RSG 01/2005 Calc. Total Region scores          *;
*****;
PROC SORT DATA=TEMP;
BY REGCON;
DATA TEMP3;
SET TEMP;
BY REGCON;
length key $200;
IF FIRST.REGCON THEN DO;
SUMSCOR1 = 0;    RETAIN SUMSCOR1;
SUMWGT1 = 0;    RETAIN SUMWGT1;
SUMSE2 = 0;    RETAIN SUMSE2;
SUMWGT2 = 0;    RETAIN SUMWGT2;
N_OBS1 = 0;    RETAIN N_OBS1;
END;

IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
IF N_OBS NE . THEN N_OBS1 + N_OBS;

```

```

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;

IF LAST.REGCON THEN DO;

    IF SUMWGT1 NOTIN (.,0) THEN DO;
        SCORE = SUMSCOR1/SUMWGT1;
        SEMEAN = SQRT(SUMSE2)/SUMWGT1;
    END;
    ELSE DO;
        SCORE = .;
        SEMEAN = .;
    END;
    N_OBS = N_OBS1;
    N_WGT = SUMWGT1;
    SOURCE = "REGION";
    FLAG = "REGION";
    IF REGCON=1 THEN REGION = "NORTH";
    IF REGCON=2 THEN REGION = "SOUTH";
    IF REGCON=3 THEN REGION = "WEST";
    IF REGCON=4 THEN REGION = "Overseas Europe";
    IF REGCON=5 THEN REGION = "Overseas Pacific";
    IF REGCON=6 THEN REGION = "Overseas Latin America";

    REGCAT = REGION;
    KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
    OUTPUT;
END;
RUN;

*****;
* RSG 01/2005 Calc. Total CONUS Scores *;
* MER 01/2009 Changed CONUS to USA *;
*****;
PROC SORT DATA=TEMP;
BY TOTCON;
DATA TEMP4;
SET TEMP END=FINISHED;
BY TOTCON;
length key $200;
IF FIRST.TOTCON THEN DO;
SUMSCOR1 = 0; RETAIN SUMSCOR1;
SUMWGT1 = 0; RETAIN SUMWGT1;
SUMSE2 = 0; RETAIN SUMSE2;
SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN N_OBS1;
END;

IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
IF N_OBS NE . THEN N_OBS1 + N_OBS;

IF LAST.TOTCON THEN DO;

    IF SUMWGT1 NOTIN (.,0) THEN DO;
        SCORE = SUMSCOR1/SUMWGT1;
        SEMEAN = SQRT(SUMSE2)/SUMWGT1;
    END;
    ELSE DO;
        SCORE = .;
        SEMEAN = .;
    END;
    N_OBS = N_OBS1;
    N_WGT = SUMWGT1;
    SOURCE = "USA";
    FLAG = "USA";

```

```

IF TOTCON=1 THEN REGION = "USA MHS";
IF TOTCON=2 THEN REGION = "OVERSEAS";
REGCAT = REGION;
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
OUTPUT;
END;
KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;

RUN;

%IF &FLAG = 0 %THEN %DO;
  DATA FINAL;
    SET INIT TEMP2 TEMP3 TEMP4;
  RUN;
%END;
%ELSE %DO;
  DATA FINAL;
    SET FINAL TEMP2 TEMP3 TEMP4;
  RUN;
%END;
%LET FLAG = 1;

%MEND;

*****
* Create CONUS for Active Duty - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);

*****
* Create CONUS for Active Duty Dependents - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);

*****
* Create CONUS for Enrollees with Civilian PCM - Individual
*****;

```

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Enrollees with Military PCM - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Non-enrolled Beneficiaries - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);

```

```

%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Prime Enrollees - Individual
*****;

```

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Retirees and Dependents - Individual
*****;

```

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for All Beneficiaries - Individual
*****;

```

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

```

```

*****
* Process Quarterly CONUS Composites
*****
*****
* Create CONUS for Claims Processing - Quarterly
*****;

```

```

%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Claims
Processing); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Claims
Processing);

```

```

*****
* Create CONUS for Customer Service - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty ,
TYPE=COMPOSITE,BENEFIT=Customer Service); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to
BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Customer Service);

```

```

*****
* Create CONUS for Getting Care Quickly - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);

```

```

*****
* Create CONUS for Getting Needed Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);

```

```
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
```

```
*****
* Create CONUS for Health Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Health
Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Care);
```

```
*****
* Create CONUS for Health Plan - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Health
Plan); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Plan);
```

```
*****
* Create CONUS for How Well Doctors Communicate - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
```

```
*****
* Create CONUS for Primary Care Manager - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
```

```

%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);

```

```

*****
* Create CONUS for Specialty Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty ,
TYPE=COMPOSITE,BENEFIT=Specialty Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to
BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);

```

```

*****
* Extract ORDER and KEY from the WEB Layout file. TEMPQ will be used
* as place holders for missing records. FAKEQ will be used for adding
* new records.
*****;
DATA FAKEQ;
  SET IN1.FAKEQ;
    length key $200;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;

```

```

RUN;
PROC SORT DATA=FAKEQ OUT=TEMPQ; BY KEY; RUN;
PROC SORT DATA=FAKEQ(KEEP=ORDER KEY); BY KEY; RUN;

```

```

*****
* Append BENCHMARK records to CAHPS records and perform significance tests
*****;
DATA BENCHMRK(KEEP=MAJGRP BENEFIT BENTYPE SEMEAN SCORE);
  SET IN1.&DSN;
  WHERE SUBSTR(REGION,1,5) = "Bench" AND SVMPRQ = 0;
RUN;
Data abnchmrk(keep=benefit bentype ascore);
set benchmrk;
where upcase(majgrp)='ALL BENEFICIARIES';
rename score=ascore;
run;
proc sort; by benefit bentype;
proc sort data=benchmrk; by benefit bentype;
data benchmrk;
merge benchmrk abnchmrk; by benefit bentype;run;
PROC SORT DATA=BENCHMRK; BY MAJGRP BENEFIT BENTYPE; RUN;

```

```

PROC SORT DATA=FINAL; BY KEY; RUN;

```

```

DATA CONUS_Q;
  MERGE FINAL(IN=IN1) FAKEQ(IN=IN2);
  BY KEY;

```



```

IF IN1;
RUN;
PROC SORT DATA=CONUS_Q; BY MAJGRP BENEFIT BENTYPE; RUN;

*****
* Perform significance tests for CONUS scores
*****;
DATA SIGTEST1;
MERGE CONUS_Q(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
BY MAJGRP BENEFIT BENTYPE;
length key $200;
TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1)); /** RSG 06/22/2004 - PUT CONDITION
TO AVOID DF=0 WHICH CAUSES ERROR FOR PROBT FUNCTION **/
ELSE TEST = .; /** RSG 06/22/2004 - ADDED FOR CASES WITH N_OBS = 1 OR LESS SINCE PROBT CAN'T
BE PERFORMED AND WOULD RESULT IN TEST = MISSING ANYWAY **/
SIG = 0;
IF TEST < 0.05 AND TEST NE . THEN SIG = 1; /** RSG 06/22/2004 - ADDED CONDITION "TEST NE ."
IN CASE MISSING IS CONSIDERED LESS THAN 0.05 **/
IF SCORE < BSCORE THEN SIG = -SIG;

KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
SOURCE = "USA_Q";
FLAG = "USA_Q";
IF SIN;
score=score+ascore-bscore;
RUN;
PROC SORT DATA=SIGTEST1; BY KEY; RUN;

*****
* Extract CAHPS scores to perform significance tests
*****;
DATA CAHPS MPR bench;
SET IN1.&DSN;
*****
* Significance tests have already been performed for MPR scores,
* so remove from file.
*****;
IF SVMPRQ = 1 THEN OUTPUT MPR;
IF SVMPRQ = 0 THEN do;
if majgrp ne 'Benchmark' then OUTPUT CAHPS;
else output bench; end;
RUN;

PROC SORT DATA=CAHPS;
BY MAJGRP BENEFIT BENTYPE;
RUN;

*****
* Perform significance tests for CAHPS scores
*****;
DATA SIGTEST2;
MERGE CAHPS(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
BY MAJGRP BENEFIT BENTYPE;
TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1)); /** RSG 06/22/2004 PUT N_OBS > 1
CONDITION TO AVOID ERRORS BECAUSE PROBT CAN NOT HANDLE DF=0 **/
ELSE TEST = .;
SIG = 0;
IF N_OBS >= 30 AND TEST < 0.05 THEN SIG = 1;
IF SCORE < BSCORE THEN SIG = -SIG;
IF SIN;
score=score+ascore-bscore;
RUN;
proc sort data=bench; by majgrp benefit bentype;
data sigtest2;
set sigtest2 bench; by majgrp benefit bentype;
PROC SORT DATA=SIGTEST2; BY KEY; RUN;

*****

```

```

* When NOT 1st quarter: Get records from previous quarters
*****;
%MACRO LASTQTR;
*****
* Input composite records from previous quarters.
*****;
LIBNAME IN2 "&LSTCONUS";
DATA LASTQTR (drop=key2); /*RSG 10/2005 - KEY2 WAS CREATED AT END OF PROG TO HELP
                        SET TREND TO MISSING FOR SCORES MISSING IN ANY QUARTERS
                        THIS SHOULD BE DROPPED AND RESET AT THE END OF PROG*/
                        SET IN2.CONUS_Q (DROP=KEY);

/**** Change BENEFIT "Heathly Behavior" to Healthy "Behaviors" JSO 02/16/2007 ****/
IF BENEFIT = 'Healthy Behavior' THEN BENEFIT = 'Healthy Behaviors';

/**** Change SOURCE and FLAG from "CONUS_Q" to "USA_Q" MER 01/29/2009 ****/
/**** Change REGION and REGCAT from "CONUS MHS to USA MHS" MER 01/29/2009 ****/
IF SOURCE = 'CONUS_Q' THEN SOURCE = 'USA_Q';
IF FLAG = 'CONUS_Q' THEN FLAG = 'USA_Q';
IF REGION = 'CONUS MHS' THEN REGION = 'USA MHS';
IF REGCAT = 'CONUS MHS' THEN REGCAT = 'USA MHS';

IF timepd IN ("&PERIOD1", "&PERIOD2", "&PERIOD3") AND
(REGION = REGCAT) AND
BENEFIT IN ("Getting Needed Care",
            "Getting Care Quickly",
            "How Well Doctors Communicate",
            "Customer Service",
            "Claims Processing",
            "Health Care",
            "Health Plan",
            "Primary Care Manager",
            "Specialty Care",
            "Preventive Care",
            "Healthy Behaviors") & TIMEPD NE "Trend";

KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));

RUN;
%MEND LASTQTR;
%LASTQTR;

PROC SORT DATA=LASTQTR(DROP=ORDER); BY KEY; RUN;

DATA LASTQTR;
MERGE TEMPQ(IN=IN1) LASTQTR(IN=IN2);
BY KEY;
IF IN1 AND IN2;
RUN;

PROC SORT DATA=MPR; BY KEY; RUN;

*****
* Combine previously created records with the new file
*****;
DATA COMBINE OUT.LT30Q;
SET SIGTEST1 SIGTEST2 LASTQTR MPR;
BY KEY;
if timepd="&period1" then period=1;   ***MJS 07/08/03 Changed from bentype="&period1";
if timepd="&period2" then period=2;   ***MJS 07/08/03 Changed from bentype="&period2";
if timepd="&period3" then period=3;   ***MJS 07/08/03 Changed from bentype="&period3";
if timepd="&period4" then period=4;   ***MJS 07/08/03 Changed from bentype="&period4";
*****
* Remove N_OBS < 30 OR N_WGT < 200
*****;
IF (N_OBS < 30 OR N_WGT < 200) AND (MAJGRP NE "Benchmark") AND
(REGION NE "Benchmark")
THEN OUTPUT OUT.LT30Q;
ELSE OUTPUT COMBINE;
RUN;

```

```

data trend;
set combine;
where period ne . ;
if period<4|benefit="Preventive Care" then score=score/100;

proc sort data=trend;
by majgrp region regcat benefit bentye period;
run;

data avg(keep=majgrp region regcat benefit t_obs a_period a_score twgt bentye) ;
set trend; by majgrp region regcat benefit bentye period;
if majgrp="Benchmark"|region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentye then do;
t_obs=0;
t_score=0;
twgt=0;
t_period=0;
end;
t_obs+n_obs;
t_Score+n_wgt*score;
twgt+n_wgt;
t_period+period*n_wgt;
if last.majgrp|last.region|last.regcat|last.benefit|last.bentye then do;
if twgt notin (.,0) then do;
a_score=t_score/twgt;
a_period=t_period/twgt;
end;
else do;
a_score=.;
a_period=.;
end;
output;
end;
RUN;

data trend2(drop=score) btrend(keep=majgrp benefit bentye trend serr);
merge trend avg; by majgrp region regcat benefit bentye;
if majgrp="Benchmark"|region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentye then do;
t_score=0;
t_se=0;
t_period=0;
end;
t_se+((n_wgt**2)*(semean**2));
t_score+n_wgt*(score-a_score)*(period-a_period);
t_period+n_wgt*(period-a_period)**2;
if last.majgrp|last.region|last.regcat|last.benefit|last.bentye then do;
if t_period ne 0 then do; /* RSG 06/22/2004 Added to avoid division by zero*/
trend=t_score/t_period;
serr=sqrt(t_se/(t_period*twgt));
end;
else do;
trend=.;
serr=.;
end;
if region="Benchmark"|majgrp="Benchmark" then output btrend;
output trend2;
end;
proc sort data=trend2; by majgrp benefit bentye;RUN;
proc sort data=btrend; by majgrp benefit bentye;
data trend3(rename=(trend=score));
merge trend2 btrend(rename=(trend=btrend serr=bserr));
by majgrp benefit bentye;
length key $200;
if ^(region="Benchmark"|majgrp="Benchmark") then do;
ttrend=trend-btrend;
serr=sqrt((serr**2)+(bserr**2));
sig=0;
if serr > 0 and t_obs notin (.,0) then test= 2*(1-probt(abs(ttrend/serr),t_obs)); /* RSG
06/22/2004 Added to avoid division by zero*/
else test = .;
if test<.05 & test ne . then sig=1;
if sig=1 & ttrend<0 then sig=-1;

```

```

end;
timepd="Trend";
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
run;

proc sort data=trend3(drop=t_obs twgt a_score a_period t_score t_se t_period serr
bserr btrend ttrend order); by key;
data trend4 ;
merge trend3(in=din) fakeq(in=cin); by key;
if din;
RUN;

data combine2;
set combine trend4;RUN;

proc sort; by key;
data combine3 dupe;
set combine2; by key;
if ^(first.key & last.key) then output dupe;
output combine3;
proc print data=dupe;run;

/* RSG 06/2005 - set trend to missing for component/composite
scores with missing scores in any of the quarter*/
data misses (keep=key2) all;
set combine3;
length key2 $200.;
KEY2 = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION));
if score = . then output misses;
output all;
run;
proc sort data=misses;
by key2;
proc sort data=all;
by key2;
run;

data combine4;
merge all (in=a) misses (in=b);
by key2;
if a and b then do;
if timepd = "Trend" then score = .;
end;
run;

*****
* Create place holders for missing records
*****;
DATA FAKEONLY;
MERGE COMBINE4(IN=IN1) TEMPQ(IN=IN2);
BY KEY;
SOURCE = "FAKE ONLY";
FLAG = "FAKE ONLY";
IF IN2 AND NOT IN1;

RUN;

*****
* Combine all of the missing records with the existing records to generate
* the complete WEB layout file.
*****;
DATA CONUS_Q;
SET FAKEONLY COMBINE4;
BY KEY;
*****
* Convert CAHPS Composites and Individual to 1-100 scale
*****;
IF timepd="Trend" OR (timepd="PERIOD4" & benefit ne "Preventive Care")
then

```

```

        SCORE = SCORE*100;
RUN;

PROC SORT DATA=CONUS_Q; BY ORDER; RUN;

DATA FAKEQ;
  SET IN1.FAKEQ;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/31/03 Added TIMEPD;

RUN;
PROC SORT DATA=FAKEQ OUT=TEMPQ;          BY KEY; RUN;
PROC SORT DATA=FAKEQ(KEEP=ORDER KEY); BY KEY; RUN;

PROC SORT DATA=CONUS_Q out=OUT.CONUS_Q;
BY KEY;
RUN;

DATA FAKEONLY;
  MERGE OUT.CONUS_Q(IN=IN1) TEMPQ(IN=IN2);
  BY KEY;
  SOURCE = "FAKE ONLY";
  FLAG   = "FAKE ONLY";
  IF IN2 AND NOT IN1;
RUN;

DATA TOTAL_Q;
  SET FAKEONLY OUT.CONUS_Q;
  BY KEY;
  IF MAJGRP="All Beneficiaries" then MAJGRP="All Users";
  IF MAJGRP="Non-enrolled Beneficiaries" then MAJGRP="Standard/Extra Users";
  IF BENEFIT="Primary Care Manager" THEN BENEFIT="Personal Doctor"; /*MJS 02/05/2003*/
  /* 11/14/2005 RSG - ADDED IN THESE CODE TO CAPITALIZE ALL WORDS IN TITLE */
  /*IF BENTYPE = "Problems Getting Referral to Specialist"
    THEN BENTYPE = "Problems Getting Referral To Specialist" ;
  IF BENTYPE = "Delays in Care while Awaiting Approval"
    THEN BENTYPE = "Delays In Care While Awaiting Approval" ;
  IF BENTYPE = "Advice over Telephone"
    THEN BENTYPE = "Advice Over Telephone" ;
  IF BENTYPE = "Wait for Routine Visit"
    THEN BENTYPE = "Wait For Routine Visit" ;
  IF BENTYPE = "Wait for Urgent Care"
    THEN BENTYPE = "Wait For Urgent Care" ;
  IF BENTYPE = "Wait More than 15 Minutes Past Appointment"
    THEN BENTYPE = "Wait More Than 15 Minutes Past Appointment";
  IF BENTYPE = "Explains so You can Understand"
    THEN BENTYPE = "Explains So You Can Understand" ;
  IF BENTYPE = "Spends Time with You"
    THEN BENTYPE = "Spends Time With You" ;
  IF BENTYPE = "Courteous and Respectful"
    THEN BENTYPE = "Courteous And Respectful" ;
  IF BENTYPE = "Problem Getting Help from Customer Service"
    THEN BENTYPE = "Problem Getting Help From Customer Service";
  IF BENTYPE = "Problem with Paperwork"
    THEN BENTYPE = "Problem With Paperwork" ;
  IF BENTYPE = "Claims Handled in a Reasonable Time"
    THEN BENTYPE = "Claims Handled In A Reasonable Time" ;*/
  IF substr(region,1,5) in ('Latin','Europ','Pacif')|Region='Overseas Latin America'
    then delete;

RUN;

PROC SORT DATA=TOTAL_Q OUT=OUT.TOTAL_Q; BY ORDER; RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6401-904)";
TITLE2 "Program Name: CONUS_Q.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFINQ.sas7bdat - Scores Database in WEB Layout";
TITLE4 "Program Outputs: TOTAL_Q.sas7bdat - USA Scores Database in WEB layout";

PROC FREQ;

```

```
TABLES SIG FLAG SOURCE BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/08/03 Added  
TIMEPD*/  
    REGION*REGCAT  
    /MISSING LIST;  
RUN;
```

G.7 Q4FY2010\PROGRAMS\LOADWEB\CREATETOTAL_QP4.SAS - COMBINES THE REGULAR TOTALQ AND PURCHASE TOTALQ INTO ONE DATASET - RUN QUARTERLY.

```

/*****
/**** Project: 6244 DOD ****/
/**** Program: CreateTotal_qp&PERIOD.sas ****/
/**** Purpose: Add from Purchase Care's Totalq data, Enrollees with Civilian PCM ****/
/****           to the Adult Beneficiary's Totalq data. New data will be use to ****/
/****           populate the Purchase Care's section of the html reports. ****/
/**** Author : Justin Oh 08/06/2008 ****/
/**** Input  : ..currentPeriod\PurchasedLoadweb\total_q ****/
/****           ..currentPeriod\Loadweb\total_q ****/
/**** Output : ..\total_q ****/
/**** Modify : ****/
/**** B-4-Run: Change the %LET statements at the top of the program. ****/
/*****
OPTIONS COMPRESS=YES;

/**** Reference quarter's period ****/
%LET PERIOD = 4;

/**** Adult Beneficiary and Purchase Care total_q.sas7bdat locations ****/
LIBNAME TOTQ_P '..\PurchasedLoadweb';
LIBNAME TOTQ_A '.';
LIBNAME TOTQ_X '.';

/**** Keep only Enrollees with Civilian PCM, used for the Purchased Care group ****/
DATA total_pc;
    SET TOTQ_P.total_q;
    IF MAJGRP = 'Enrollees with Civilian PCM';
    IF MAJGRP = 'Enrollees with Civilian PCM' THEN MAJGRP = 'Purchased Care Users';
RUN;
/**** Add Purchase Care's renamed MAJGRP to create a final total_q file ****/
DATA TOTQ_X.total_qp&PERIOD;
    SET TOTQ_A.total_q total_pc;
RUN;

/***** END OF PROGRAM *****/

```



```

*           Added code to avoid scores > 100           ;
* 04-30-2003 - Mike Scott                               ;
*           Changed Preventive Care columns from 5 to 6 to ;
*           accommodate Cholesterol Testing.           ;
* 05-01-2003 - Mike Scott                               ;
*           Updated periods for Q1 2003, and changed "2001 and ;
*           2002" to "2002 and 2003" and "2002 Health Care ;
*           Survey" to "2003 Health Care Survey".      ;
* 05-04-2003 - Mike Scott                               ;
*           Removed Civilian PCM (var1=3 or majgrp=3), and ;
*           changed 4-8 references to 3-7.            ;
* 05-06-2003 - Mike Scott                               ;
*           Changed 7-0-0 to 8-0-0.                  ;
* 05-13-2003 - Mike Scott                               ;
*           Changed two widths.                       ;
* 05-14-2003 - Mike Scott                               ;
*           Changed columns from 2-12 to 1-11 which is ;
*           controlled by var3 - decreased var3's by 1 and ;
*           decreased K loops by 1.                   ;
* 07-03-2003 - Mike Scott                               ;
*           Incorporated TIMEPD variable into program to run ;
*           with Q1 2003 TOTAL_Q rerun to include TIMEPD ;
*           variable.                                  ;
* 07-30-2003 - Mike Scott                               ;
*           Added else do section to correct header.   ;
* 07-31-2003 - Mike Scott                               ;
*           Updated periods for Q2 2003.              ;
* 08-01-2003 - Mike Scott                               ;
*           Added code so periods would print on var3=7,8,9,10. ;
* 08-07-2003 - Regina Gramss                           ;
*           Changed program to create additional trend pages ;
*           for each sub-benefit: pages are now named with 4 ;
*           numbers (var4 has been added to all file name ;
*           references) to compensate for additional layer ;
*           of pages. All file references have been changed ;
*           to include var4.                           ;
* 01-28-2004 - Mike Scott                               ;
*           Changed back to html being generated in HTML ;
*           directory below directory where MAKEHTMQ is being ;
*           run.                                       ;
* 01-29-2004 - Mike Scott                               ;
*           Commented out LENGTH HREF $ 250 statements, since ;
*           HREF was already declared.                 ;
* 02-11-2004 - Mike Scott                               ;
*           Changed all lengths to 100 that were less than 100. ;
* 03-24-2004 - Mike Scott                               ;
*           Updated for Q1 2004. Changed hard-coded years in ;
*           footnotes stating source to macro variables. ;
* 05-07-2004 - Mike Scott - Changed "Wait More than 15 Minutes Past ;
*           Appointment" to "Wait in Doctor's Office" and ;
*           "Problems Getting Referral to Specialist" to "Problems ;
*           Getting to See Specialist". NAed out trends for the ;
*           composites Getting Needed Care, Getting Care Quickly, ;
*           and Customer Service and for the questions Problems ;
*           Getting Personal Doctor/Nurse (GNC), Wait in Doctor's ;
*           Office (GCQ), and Problem with Paperwork (CS). ;
* 02-16-2004 - Mike Scott - Moved initial data read-in outside macro ;
*           loop to speed up program.                  ;
* 06-22-2004 - Regina Gramss - Updated for Q2 2004 run. ;
* 08-02-2004 - Regina Gramss - removed lines that replaced trend ;
*           with NA                                    ;
* 10-07-2004 - Regina Gramss - Adjusted for XTNEXREG   ;
* 02-14-2005 - Mark Brinkley - added 12th benefit SMOKING ;
* 05-10-2005 - Regina Gramss - deleted chol testing under Prevention ;
*           and added BMI for Healthy Behaviors (which replaced ;
*           Smoking Cessation)                         ;
* 07-29-2005 - Regina Gramss - updated for Q2 2005 - changed period ;
*           values to quarter, cy values (vs. dates)  ;
* 10-31-2005 - Regina Gramss - updated for Q3 2005   ;
* 12-28-2005 - Regina Gramss - updated for Q4 2005   ;
* 05-11-2006 - Lucy Lu - updated for Q2 FY 2006      ;
*           change made: change macro variables SRCYR1 to SRFYR1 ;
*           SRCYR2 to SRFYR2                           ;
* 02-09-2007 - Justin Oh - condensed %if statement for bottom_notes ;

```

```

* macro. ;
* 02-15-2007 - Justin Oh - added bottom_notes_xls to condensed %if ;
* statements for xls outputs in three places ;
* 02-01-2009 - Mike Rudacille - changed CONUS to USA ;
* ;
* NOTE: Update only SRFYR1, SRFYR2, PERIOD1/2/3, and CURRENTPERIOD. ;
*=====;

%LET SRFYR1 = 2009; *** Previous year; /*MJS 03/24/04 Added macro variables*/
%LET SRFYR2 = 2010; *** Current year;

/**** Added macro variables for previous periods (MAB 6-19-2002) ****/
%LET PERIOD1 = October, 2009;
%LET PERIOD2 = January, 2010;
%LET PERIOD3 = April, 2010;

/**** Change name of macro variable from PERIOD (MAB 6-19-2002) ****/
%LET CURRENTPERIOD = July, 2010; /** Current Period of these reports **/
%LET QTRS=4; /** Qtr of these reports **/
%LET QTRNO=1; /**LLU 5/15/06. ne 1 indicates the data is from cuerrent year and proceeding
year, 1 is from current year only*/

/**** Added macro variables for DDE/Excel fix (MER 05-03-2010) ****/
%LET CURRQTR = Q4FY2010;

OPTIONS NOXWAIT; /* 2000/11: added noxwait*/

%LET HTMLSP=%NRSTR(&nbsp;); /**DANIELE CHANGED %STR(&nbsp;) TO %NRSTR(&nbsp;)**/
%LET QUOTE=%STR("");
%LET OUTDIR=html; /** Directory to put HTML files **/ /*MJS 01/28/04 Set to
HTML*/
%LET IMGDIR=images; /** Directory with images **/
%LET TARGET=target='_parent'; /** HTML code for frames targeting **/
%LET OUTXLS=1; /** 1=Make XLS file/0=Don't Added 1-24 MAB **/
%LET fontface=%STR(Arial,Helvetica,Swiss,Geneva);
%LET hcolor=%STR('white');
%LET BLUE=%STR('#663300'); /** This is really dark red **/
%LET GREEN=%STR('#009933');
%LET RED=%STR('#cc0000');
%LET GRAY=%STR('white');
%LET LOGO=%STR('images\tricare_side_35_new.gif');
%LET HELP_BUT=%STR('images\help75.gif');
%LET HOME_BUT=%STR('images\home75.gif');
%LET BACK_BUT=%STR('images\back75.gif');
%LET NUMBER_HTML_FILES=0; /** Keep count of HTML files created **/

%LET SUB_HEAD=0; /** Macro variable for sub-benefit heading **/
/** 1=headings, 0=no headings **/

/*****/
/**** Macro for putting notes at bottom of table *****/
/*****/
%MACRO BOTTOM_NOTES(); /** Modified %if condition at the QTRNO level to minimize
duplicate codes **/
/** Deleted previously commented out per page bottom notes.

JSO 02/09/07 **/
PUT "<tr>";

%IF &QTRNO NE 1 %THEN %DO;
PUT " <td colspan='&columns.'><font face='Arial,Helvetica,Swiss,Geneva'
size='2'>Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and
&SRFYR2.</font>"; ***MJS 03/24/04
%END;
%ELSE %DO;
PUT " <td colspan='&columns.'><font face='Arial,Helvetica,Swiss,Geneva'
size='2'>Source: &SRFYR2 Health Care Survey of DOD Beneficiaries</font>"; ***MJS 03/24/04
Changed hard-coded year to
%END;

PUT " <font face='Arial,Helvetica,Swiss,Geneva' size='2' color='#009933'><br>";
PUT " <b>Indicates score significantly exceeds benchmark</b></font><b>&htmlsp.<br>";

```

```

        PUT " " </b><font face='Arial,Helvetica,Swiss,Geneva' size='2'
color='#cc0000'><i>Indicates score significantly falls short of benchmark</i></font><br>;
        PUT " " <font face='Arial,Helvetica,Swiss,Geneva' size='2'>NA Indicates not
applicable</font><br>;

/* MER 10/24/2009 Fix no longer needed */
/*%if &var3 = 4 and &seppage = 2 %then %do;
        PUT " " <font face='Arial,Helvetica,Swiss,Geneva' size='2'>* Indicates scores not
available for that quarter</font><br>;
        %end;*/

        PUT " " <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due
to small sample size</font><br>;

/* MER 05/14/2010 Fix no longer needed */
/*%if &var3 = 0 %then %do;
        PUT " " <font face='Arial,Helvetica,Swiss,Geneva' size='2'># Indicates <a
href='..\html\help.htm#transition' &target.>change</a> to composite</font><br>;
        %end;
        %else %if &var3 = 1 or &var3 = 3 or (&var3 = 11 and &seppage = 1) %then %do;
        PUT " " <font face='Arial,Helvetica,Swiss,Geneva' size='2'># Indicates <a
href='..\html\help.htm#transition' &target.>change</a> to questions</font><br>;
        %end;*/

        PUT " " <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>;
        PUT " </td></tr>;

%MEND BOTTOM_NOTES;

%MACRO BOTTOM_NOTES_XLS(); /* Added BOTTOM_NOTES_XLS macro to substitute 3 separate
duplicate codes. */
/* Big difference between BOTTOM_NOTES macro is the special
fonts. JSO 02/15/07 */
%if &outxls.=1 %then %do;
        FILE XLSDATA;
        PUT; PUT;
        %if &var3.=0 %then %do;
                PUT "Source: &SRFYR2 Health Care Survey of DOD Beneficiaries";
        %end;
        %else %do;
                %IF &QTRNO NE 1 %THEN %DO;
                        PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and
&SRFYR2";
                %END;
                %ELSE %DO;
                        PUT "Source: &SRFYR2 Health Care Survey of DOD Beneficiaries";
                %END;
        %end;
        PUT "Indicates score significantly exceeds benchmark";
        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates not applicable";
/* MER 10/24/2009 Fix no longer needed */
/*%if &var3 = 4 and &seppage = 2 %then %do;
        PUT "* Indicates scores were not available that quarter";
        %end;*/
        PUT "*** Indicates suppressed due to small sample size";
/* MER 05/14/2010 Fix no longer needed */
/*%if &var3 = 0 %then %do;
        PUT "# Indicates change to composite";
        %end;
        %else %if &var3 = 1 or &var3 = 3 or (&var3 = 11 and &seppage = 1) %then %do;
        PUT "# Indicates change to questions";
        %end;*/
%end;

%MEND BOTTOM_NOTES_XLS;

/*****
/***** Macro for adding in link row to trends data *****/
/*****/

/**** Macro variable with Javascript to go back ****/

```

```
%LET          GOBACK=%STR(<script>document.write(&quote.<a          href='javascript:history.go(-1)'
target='_parent'>&quote.);
document.write(&quote.<img          src='images\\back75.gif'          border='0'          alt='Go          to          previous
page'>&quote.);document.write(&quote.</a>&quote.);</script>);
```

```
LIBNAME SRC1  '.'  ACCESS=READONLY;
OPTIONS LS=210;
```

```
/******
/**** Macro to create html pages *****/
/****          var1=major group          *****/
/****          var2=region          *****/
/****          var3=benefit          *****/
/****          var4=trend          *****/
/****          seppage=0/no separate pages for qtrly trends          *****/
/****          1/1st separate page          *****/
/****          2/2nd separate page          *****/
/******
/** RSG 08/07/03 - added var4 to add extra dimension of page numbers for
sub benefit trend pages**/
```

```
/** Load in data **/          ***MJS 05/13/04;
DATA PRE_SUBSET;
SET SRC1.TOTAL_QP4;
```

```
IF BENEFIT="Total" THEN DELETE;          /** MAB testing 2/11/2005 **/
```

```
/* MER 08/27/09 Temporary fix for Q3FY2009 */
/*IF (BENEFIT="Customer Service" AND TIMEPD="Trend") THEN SCORE=.;*/
```

```
IF SCORE>100 then SCORE=100;          ***MJS ADDED 2/14/2003 to
avoid scores > 100;
IF (TIMEPD="Trend" and -.5<SCORE<0) THEN SCORE=ABS(SCORE);          ***DKB ADDED 8/13/2002 to
avoid negative zero values;
IF TIMEPD="Trend" THEN TIMEPD="Est. Quarterly Rate of Change";          ***DKB ADDED 8/12/2002 to
rename Trend column;
```

```
IF BENTYPE="Wait More Than 15 Minutes Past Appointment" THEN          /*MJS 5/7/04 Changed label*/
BENTYPE="Wait In Doctor`s Office";
IF BENTYPE="Problems Getting Referral To Specialist" THEN          /*MJS 5/7/04 Changed label*/
BENTYPE="Problems Getting To See Specialist";
IF BENTYPE="Percent Normal Weight" THEN
BENTYPE="Percent Not Obese";          /* RSG 09/20/2005 Changed
label*/
```

```
/**RSG 01/2005 CREATE SERVICE FIELD TO ORDER REGION BY SERVICE AFFILIATION, ALSO
CHANGE CONUS SERVICE AFFILIATION TO LOWER CASE*/
```

```
IF MAJGRP = "Benchmark" THEN LINEUP=1;
ELSE IF MAJGRP = "Prime Enrollees" THEN LINEUP=2;
ELSE IF MAJGRP = "Enrollees with Military PCM" THEN LINEUP=3;
ELSE IF MAJGRP = "Enrollees with Civilian PCM" THEN LINEUP=4;          ***JSO 11/07/07 Added
Civilian PCM;
ELSE IF MAJGRP = "Standard/Extra Users" THEN LINEUP=5;
ELSE IF MAJGRP = "Purchased Care Users" THEN LINEUP=6;          ***JSO 07/28/08 Added
Purchased Care Users;
ELSE IF MAJGRP = "Active Duty" THEN LINEUP=7;
ELSE IF MAJGRP = "Active Duty Dependents" THEN LINEUP=8;
ELSE IF MAJGRP = "Retirees and Dependents" THEN LINEUP=9;
ELSE IF MAJGRP = "All Users" THEN LINEUP=10;
```

```
IF REGION = "Benchmark" THEN LINEUP2=1;
ELSE IF UPCASE(REGION) = 'USA MHS' THEN DO;
LINEUP2=2;
REGION = 'US MHS';
REGCAT = 'US MHS';
END;
ELSE IF UPCASE(REGION) = 'ARMY' THEN LINEUP2=3;
ELSE IF UPCASE(REGION) = 'NAVY' THEN LINEUP2=4;
ELSE IF UPCASE(REGION) = 'AIR FORCE' THEN LINEUP2=5;
ELSE IF UPCASE(REGION) = 'OTHER' THEN LINEUP2=6;
ELSE IF UPCASE(REGION) = 'NORTH' THEN LINEUP2=7;
ELSE IF UPCASE(REGION) = 'NORTH ARMY' THEN LINEUP2=8;
```

```

ELSE IF UPCASE(REGION) = 'NORTH NAVY' THEN LINEUP2=9;
ELSE IF UPCASE(REGION) = 'NORTH AIR FORCE' THEN LINEUP2=10;
ELSE IF UPCASE(REGION) = 'NORTH OTHER' THEN LINEUP2=11;
ELSE IF UPCASE(REGION) = 'SOUTH' THEN LINEUP2=12;
ELSE IF UPCASE(REGION) = 'SOUTH ARMY' THEN LINEUP2=13;
ELSE IF UPCASE(REGION) = 'SOUTH NAVY' THEN LINEUP2=14;
ELSE IF UPCASE(REGION) = 'SOUTH AIR FORCE' THEN LINEUP2=15;
ELSE IF UPCASE(REGION) = 'SOUTH OTHER' THEN LINEUP2=16;
ELSE IF UPCASE(REGION) = 'WEST' THEN LINEUP2=17;
ELSE IF UPCASE(REGION) = 'WEST ARMY' THEN LINEUP2=18;
ELSE IF UPCASE(REGION) = 'WEST NAVY' THEN LINEUP2=19;
ELSE IF UPCASE(REGION) = 'WEST AIR FORCE' THEN LINEUP2=20;
ELSE IF UPCASE(REGION) = 'WEST OTHER' THEN LINEUP2=21;
ELSE IF UPCASE(REGION) = 'OVERSEAS' THEN LINEUP2=22;
ELSE IF UPCASE(REGION) = 'OVERSEAS EUROPE' THEN LINEUP2=23;
ELSE IF UPCASE(REGION) = 'OVERSEAS PACIFIC' THEN LINEUP2=24;

RUN;    ***MJS 07/03/03 Changed BENTYPE to TIMEPD;

PROC SORT;
BY LINEUP LINEUP2;
RUN;

%MACRO MKHTML(var1,var2,var3,seppage,var4);

/** Determine some macro variables **/
%if &prefix=f %then %do;
    %let width1=640;
    %let width2=640;
    %let border=0;
%end;
%else %do;
    %let width1=90%;
    %let width2=85%;
    %let border=1;
%end;

%let number_html_files=%EVAL(1+&number_html_files.);

/** Load in data **/
DATA SUBSET;
SET PRE_SUBSET;
LENGTH FILEOUT1 $ 100;    /*MJS 02/11/04*/
LENGTH FILEOUT2 $ 100;
LENGTH FILEOUT3 $ 100;

/** VAR1 indicated major group **/
%if &var1.=0 %then %let major=%STR();
%if &var1.=1 %then %let major=%STR(Prime Enrollees);
%if &var1.=2 %then %let major=%STR(Enrollees with Military PCM);
%if &var1.=3 %then %let major=%STR(Enrollees with Civilian PCM);    ***JSO 10/31/07 Added
Civilian PCM;
%if &var1.=4 %then %let major=%STR(Standard/Extra Users);    ***(var1.=3), and changed
3-7 back to 4-8;
%if &var1.=5 %then %let major=%STR(Purchased Care Users);    ***JSO 07/28/08 Added
Purchased Care Users;
%if &var1.=6 %then %let major=%STR(Active Duty);
%if &var1.=7 %then %let major=%STR(Active Duty Dependents);
%if &var1.=8 %then %let major=%STR(Retirees and Dependents);
%if &var1.=9 %then %let major=%STR(All Users);

%if &var1.=0 %then %do;
    /* RSG 02/2005 - CONUS WILL NOW BE PART OF REGION LIST SO COMMENT OUT NEXT SECTION*/
    /* %if &var2.^=99 %then %do;
        IF SUBSTR(REGION,1,3)="USA" THEN DELETE;
    %end;*/

```

```

        %let comma=%STR();
        %let grpmsg=%STR();
    %end;
%else %do;
    IF MAJGRP="&major.";    /** Subset data by major group ***/
    %let comma=%STR(,);
    %let grpmsg=%STR(Click below to view this table by other groups);
%end;

/** Create macro variables to refer to Component or Trend pages ***/
%if &seppage.=2 %then %do;
    %let q=q;
    %let unq=;
    %let click_alt=Click for Component data;
    %let click_image=component.gif;
%end;
%else %do;
    %let q=;
    %let unq=q;
    %let click_alt=Click for Trend data;
    %let click_image=trend.gif;
%end;

FILEOUT1=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q..htm");    /** Main html
**/
FILEOUT2=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.a.htm");    /** Header html
**/
FILEOUT3=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.b.htm");    /** Data html
**/
/** Added &var4 to all file names for additional sub-benefit trend pages
08-07-2003 RSG ***/
/*MJS 01/28/04 Added &outdir.\ to above filenames*/

/** Added 07-12-2001 MAB If creating Excel then don't create HTML ***/
%if &outxls.=1 %then %do;
    %let fileout1= NUL;
    %let fileout2= NUL;
    %let fileout3= NUL;
%end;
%else %do;
    call symput('fileout1',FILEOUT1);
    call symput('fileout2',FILEOUT2);
    call symput('fileout3',FILEOUT3);
%end;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/

/*MJS 01/28/04 Added &outdir.\ to filename*/
FILEOUTX=COMPRESS("&outdir.\p&var1.-&var2.-&var3.-&var4.&q..xls");    /** create run-
specific xls file */
CALL SYMPUT('fileoutX',FILEOUTX);    /** via global macro vars
*/
%if &seppage. ne 2 %then %do;
    /* MER 05/14/2010 Fix no longer needed */
    /*%if &var3 = 0 or &var3 = 1 or &var3 = 3 or &var3 = 11 %then %do;
        TEMPLATE=COMPRESS("Templates\Template&var3._trans.xls");
    %end;
    %else %do;
        TEMPLATE=COMPRESS("Templates\Template&var3.xls");
    %end;*/
    TEMPLATE=COMPRESS("Templates\Template&var3.xls");
%end;
/* MER 10/24/2009 Fix no longer needed */
/*%else %if &var3 = 4 %then %do;
    TEMPLATE=COMPRESS("Templates\Template_trend2.xls");
%end;*/
/* MER 05/14/2010 Fix no longer needed */

```

```

/*%else %if &var3 = 1 or &var3 = 3 %then %do;
    TEMPLATE=COMPRESS("Templates\Template_trend_trans.xls");
%end;*/
%else %do;
    TEMPLATE=COMPRESS("Templates\Template_trend.xls");
%end;
CALL SYMPUT('template',TEMPLATE);
xls file */
/*-----*/
/* 2000/11: end xls code */
/*-----*/

/** VAR3 dictates type of benefit heading */
%if &var3=0 %then %do;
    %let headvar=BENEFIT;
%end;
%else %do;
    /*MJS 07/30/03 Added else do - was %else %let headvar=BENTYPE;*/
    %if &seppage.=2 or &var3=6 or &var3=7 or &var3=8 or &var3=9 %then %let headvar=TIMEPD;
/*MJS 08/01/03 Added &var3 code*/
    %else %let headvar=BENTYPE;
%end;

/** clean up headvar variable */
/**IF BENTYPE="Trend" THEN BENTYPE="Trend<BR>% change";**/

/** Link to XLS file */
HREFXLS=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..xls");
call symput('hrefxls',HREFXLS);
RUN;

/** Subset data by region */
DATA SUBSET2;
SET SUBSET;

%if &var2.=0 %then %do;    /** 0 = All regions */
    IF REGION=REGCAT;    /** Just do All Region table */
    %let sub_regs=%STR(All Regions);
%end;

%else %if &var2.=1 %then %do;
    IF UPCASE(REGION)="US MHS"; /* MER 08/27/09 changed to US MHS */
    %let sub_regs=%STR(US MHS);
%end;

%else %if &var2.=2 %then %do;
    IF UPCASE(REGION)="ARMY";
    %let sub_regs=%STR(ARMY);
%end;

%else %if &var2.=3 %then %do;
    IF UPCASE(REGION)="NAVY";
    %let sub_regs=%STR(NAVY);
%end;

%else %if &var2.=4 %then %do;
    IF UPCASE(REGION)="AIR FORCE";
    %let sub_regs=%STR(AIR FORCE);
%end;

%else %if &var2.=5 %then %do;
    IF UPCASE(REGION)="OTHER";
    %let sub_regs=%STR(OTHER);
%end;

%else %if &var2.=6 %then %do;
    IF UPCASE(REGION)="NORTH";
    %let sub_regs=%STR(NORTH);
%end;

%else %if &var2.=7 %then %do;
    IF UPCASE(REGION)="NORTH ARMY";
    %let sub_regs=%STR(North Army);
%end;

%else %if &var2.=8 %then %do;
    IF UPCASE(REGION)="NORTH NAVY";
    %let sub_regs=%STR(North Navy);
%end;

```

```

%else %if &var2.=9 %then %do;
    IF UPCASE(REGION)="NORTH AIR FORCE";
    %let sub_regs=%STR(North Air Force);
%end;
%else %if &var2.=10 %then %do;
    IF UPCASE(REGION)="NORTH OTHER";
    %let sub_regs=%STR(North Other);
%end;
%else %if &var2.=11 %then %do;
    IF UPCASE(REGION)="SOUTH";
    %let sub_regs=%STR(SOUTH);
%end;
%else %if &var2.=12 %then %do;
    IF UPCASE(REGION)="SOUTH ARMY";
    %let sub_regs=%STR(South Army);
%end;

%else %if &var2.=13 %then %do;
    IF UPCASE(REGION)="SOUTH NAVY";
    %let sub_regs=%STR(South Navy);
%end;
%else %if &var2.=14 %then %do;
    IF UPCASE(REGION)="SOUTH AIR FORCE";
    %let sub_regs=%STR(South Air Force);
%end;
%else %if &var2.=15 %then %do;
    IF UPCASE(REGION)="SOUTH OTHER";
    %let sub_regs=%STR(South Other);
%end;
%else %if &var2.=16 %then %do;
    IF UPCASE(REGION)="WEST";
    %let sub_regs=%STR(WEST);
%end;

%else %if &var2.=17 %then %do;
    IF UPCASE(REGION) = "WEST ARMY";
    %let sub_regs=%STR(West Army);
%end;
%else %if &var2.=18 %then %do;
    IF UPCASE(REGION) = "WEST NAVY";
    %let sub_regs=%STR(West Navy);
%end;
%else %if &var2.=19 %then %do;
    IF UPCASE(REGION) = "WEST AIR FORCE";
    %let sub_regs=%STR(West Air Force);
%end;
%else %if &var2.=20 %then %do;
    IF UPCASE(REGION) = "WEST OTHER";
    %let sub_regs=%STR(West Other);
%end;
%else %if &var2.=21 %then %do;
    IF UPCASE(REGION) = "OVERSEAS";
    %let sub_regs=%STR(OVERSEAS);
%end;
%else %if &var2.=22 %then %do;
    IF UPCASE(REGION) = "OVERSEAS EUROPE";
    %let sub_regs=%STR(Overseas Europe);
%end;
%else %if &var2.=23 %then %do;
    IF UPCASE(REGION) = "OVERSEAS PACIFIC";
    %let sub_regs=%STR(Overseas Pacific);
%end;

RUN;

/** Subset data by Benefit **/
DATA SUBSET3;
    SET SUBSET2;

    %if &var3.=0 %then %do;    /** 0=All Benefits **/
        IF BENTYPE="Composite" and TIMEPD="&currentperiod.";    ***MJS 07/03/03 Changed from IF
    BENTYPE="&currentperiod.";

```



```

%end;
%else %if &var3.=1 %then %do;    ***MJS 4/23/03 Changed 2 to 1;
    IF BENEFIT="Getting Needed Care";

    /** # of columns for this benefit table ***/
    %let columns=%EVAL(3+&qtrs.); ***MER ADDED 3+ instead of 5+ 4/21/09;
%end;
%else %if &var3.=2 %then %do;    ***MJS 4/23/03 Changed 3 to 2;
    IF BENEFIT="Getting Care Quickly";
    %let columns=%EVAL(3+&qtrs.); ***MER ADDED 3+ instead of 5+ 4/21/09;
%end;
%else %if &var3.=3 %then %do;    ***MER 4/21/09 Changed 4 to 3;
    IF BENEFIT="How Well Doctors Communicate";
    %let columns=%EVAL(5+&qtrs.);
%end;
%else %if &var3.=4 %then %do;    ***MER 4/21/09 Changed 5 to 4;
    IF BENEFIT="Customer Service";
    %let columns=%EVAL(3+&qtrs.); ***MER ADDED 3+ instead of 4+ 4/21/09;
%end;
%else %if &var3.=5 %then %do;    ***MER 4/21/09 Changed 6 to 5;
    IF BENEFIT="Claims Processing";
    %let columns=%EVAL(3+&qtrs.);
%end;
%else %if &var3.=6 %then %do;    ***MER 4/21/09 Changed 7 to 6;
    IF BENEFIT="Health Plan";
    %let columns=%EVAL(2+&qtrs.);    ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
%end;
%else %if &var3.=7 %then %do;    ***MER 4/21/09 Changed 8 to 7;
    IF BENEFIT="Health Care";
    %let columns=%EVAL(2+&qtrs.);    ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
%end;
%else %if &var3.=8 %then %do;    ***MER 4/21/09 Changed 9 to 8;
    IF BENEFIT="Personal Doctor";    ***MJS 02/04/2003;
    %let columns=%EVAL(2+&qtrs.);    ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
%end;
%else %if &var3.=9 %then %do;    ***MER 4/21/09 Changed 10 to 9;
    IF BENEFIT="Specialty Care";
    %let columns=%EVAL(2+&qtrs.);    ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
%end;
%else %if &var3.=10 %then %do;    ***MER 4/21/09 Changed 11 to 10;
    IF BENEFIT="Preventive Care";    ***MJS 04/30/03 Changed from 5+ to 6+ because Cholesterol
Testing was added;
    %let columns=%EVAL(5+&qtrs.);    ***DKB CHANGED FROM 6+ to 5+ because removed flu shot
5/7/02;
%end;
%else %if &var3.=11 %then %do;    ***MER 4/21/09 Changed 12 to 11;
    IF BENEFIT="Healthy Behaviors";
    %let columns=%EVAL(4+&qtrs.);
%end;

/** Set macro variable ***/
%if &var3.=0 %then %do;
    %let sub_ben=%STR(&currentperiod. Composite Scores);
    %let columns=12;    ***MER 4/21/09 Changed from 13 to 12;
%end;
%else %do;
    call symput('sub_ben',BENEFIT);
%end;

/** Determine number of columns for sub-benefits ***/
/** Equals cols - (x for qtrs - 1 for stub column) ***/
%let subcols=%EVAL(&columns.-&qtrs.-2);    ***DKB CHANGED FROM -1 to -2 5/3/2002;

/** Determine number of columns less 1st (stub) column ***/
%let columns_less1=%EVAL(&columns.-1);

RUN;

/** Added 4-3-01 MAB ***/
DATA SUBSET4;
SET SUBSET3;

```

```

WIDTH_COL1=120; /** Set width of column 1 **/

IF BENTYPE="Composite" THEN WIDTH3=90; ***DKB ADDED TREND and changed width3 from 120 to 90
4/30/2002***;
ELSE WIDTH3=90; ***MJS 07/03/03 Changed from BENTYPE IN any period and
Est. Quarterly Rate of Change;

/** Deal with some special cases **/
IF BENEFIT="Preventive Care" THEN DO;
    IF BENTYPE="Composite" THEN WIDTH3=.; ***DKB ADDED TREND 4/30/2002***;
    ELSE WIDTH3=80; ***MJS 07/03/03 Changed from BENTYPE IN any
period and Est. Quarterly Rate of Change;
END;
%if &prefix.=p %then %do;
    WIDTH3=.;
%end;

%else %if &var3.=0 %then %do;
/*    WIDTH_COL1=.;
    WIDTH3=40;*/
/* MER 05/02/09 new values for V4 frames */
    WIDTH_COL1=80;
    /* MER 05/02/09 */
    %if &var2.=0 %then %do;
        WIDTH3=44;
    %end;
    %else %do;
        WIDTH3=43;
    %end;
%end;

/** Added 5-7-2001 mab **/

RUN;

/***** Put out Header rows of table *****/
DATA HTML;
SET SUBSET4;
LENGTH HREFBACK $100; /*MJS 02/11/04*/

IF REGION IN("Benchmark") OR MAJGRP IN("Benchmark");

/** Determine where back button should link to **/
%if &var1.=0 %then %do;
    HREFBACK=COMPRESS("&prefix.8-0-0-0.htm"); ***MJS 05/06/03 Changed 8-0-0 to 7-0-0;
***JSO 11/12/07 Changed 7-0-0 to 8-0-0;
%end;
%else %do;
    HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
%end;

/** Create macro variable date with today's date **/
DATETIME=DATETIME();
CALL SYMPUT ('DATETIME',left(put(datetime,datetime20.)));
DROP DATETIME;

RUN;

/** ÔÔ FRAMES SECTION ÔÔ **/
%if &prefix=f %then %do;

    /** Make frameset page split frames smaller on all ratings pages **/

    %if &var3.=0 %then %do;
        %let splitpixel=228;
    %end;
    %else %if &var3.=1 OR &var3.=2 %then %do; ***MJS 4/23/03 Changed 2&3 to 1&2;
        %let splitpixel=211;
    %end;
    %else %if &var3.=5 OR &var3.=11 %then %do; ***MER 4/21/09 Changed 6&12 to 5&11;

```

```

        %let splitpixel=181;
    %end;
    %else %if &var3.=3 %then %do;    ***MER 4/21/09 Changed 4 to 3;
        %let splitpixel=196;
    %end;
    %else %if &var3.=4 %then %do;    ***MER 4/21/09 Changed 5 to 4;
        %let splitpixel=221;
    %end;
    %else %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
        %let splitpixel=158;    ***MER 4/21/09 Changed 7/8/9/10 to 6/7/8/9;
    %end;
    %else %if &var3.=10 %then %do;    ***MER 4/21/09 Changed 11 to 10;
        %let splitpixel=192;
    %end;

    %if &SEPPAGE.=2 %then %do;
        %let splitpixel=157;
    %end;

    /*** Create frameset page HTML page ***/
    DATA _NULL_;
    FILE "&FILEOUT1.";
    PUT "<html><head><title>";
    PUT "&major. &comma. &sub_ben., &sub_regs.";
    PUT "</title></head>";
    PUT "<frameset rows='&splitpixel.,*'>";
    %if &seppage.=2 %then %do;
        PUT "          <frame   src='f&var1.-&var2.-&var3.-&var4.qa.htm'   MARGINHEIGHT='0'
MARGINWIDTH='0'>";
        PUT "          <frame   src='f&var1.-&var2.-&var3.-&var4.qb.htm'   MARGINHEIGHT='0'
MARGINWIDTH='0'>";
        %end;
    %else %do;
        PUT "          <frame   src='f&var1.-&var2.-&var3.-&var4.a.htm'   MARGINHEIGHT='0'
MARGINWIDTH='0'>";
        PUT "          <frame   src='f&var1.-&var2.-&var3.-&var4.b.htm'   MARGINHEIGHT='0'
MARGINWIDTH='0'>";
        %end;

    PUT "</frameset></html>";
    RUN;

    /*** Since done making frameset page then assign fileout1 = frame 1 ***/
    %let fileout1=&fileout2.;
    %if &seppage.=1 %then %do;
        %let fileout1=&fileout2.;
    %end;
    %else %if &seppage.=2 %then %do;
        %let fileout1=&fileout2.;
    %end;

%end;

    /*** Initialize HTML page ***/
    DATA _NULL_;
    FILE "&FILEOUT1.";

    PUT "<! Created &datetime.>";
    PUT "<html><head><title>";
    PUT "&major. &comma. &sub_ben., &sub_regs.";
    PUT "</title></head>";
    PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066' vlink='#996699'>";

    /*** link to printer friendly version moved, 10/25/2001 C.Rankin ***/

    RUN;

    /*-----*/
    /* 2000/11: begin xls code */

```



```

    /** MF Changes ROW 1 **/
    PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
colspan=12 width='&width1.'>";
    PUT "<tr bgcolor='white'>";
    PUT "    <td colspan='6' valign='top' bgcolor='#999999'><img border='0' height='25'
width='242' src=&logo.></td>";
    PUT "    <td colspan='6' align='right' valign='bottom' bgcolor='#999999'>";
    PUT "        <div align='right'>";
    PUT "            <a href='../html\index.htm' &target.><img src=&home_but. border='0'
alt='Return to Main Page'></a>&htmlsp. &htmlsp.";

    /*** 4-17 MAB added JS code to go back ***/
    PUT "&goback.";

    PUT "    <noscript><a href="" HREFBACK +(-1) "" &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";
    PUT "        &htmlsp. &htmlsp.";
    PUT "            <a href='../html\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
    PUT "    </td>";
    PUT "</tr>";

    /** MF Changes ROW 2 **/
    /** Modified 2-2 MAB to better align title **/
    PUT "<tr>";
    PUT "    <td valign='center' align='center' colspan='12' bgcolor='#D8D8D8'>";
    PUT "        <font face='&fontface.' color='#3333cc' size='5'><b>&major.
&comma. &sub_regs.<br>";
    PUT "            &sub_ben.</b></font>";
    PUT "    </td>";
    PUT "</tr>";

    /*** Print out 3rd row ***/
    /*** UU FRAMES SECTION UU ***/

    /***here***/

    %if &prefix=f %then %do;
    PUT "<tr bgcolor= &hdcolr.>";
    /**RSG 02/2005 add in a dummy gif to align titles and comment out extra cell**/
    /**PUT "<td width=70>&htmlsp.</td>";**/
    PUT "<td width=40 colspan=1><IMG SRC='&imgdir.\dummy.gif' ALT=' ' BORDER=0></td>";
    PUT "<td width=80 colspan=2><IMG SRC='&imgdir.\eoa.gif'ALT='Ease of Access'
BORDER=0></td>";
    PUT "    <td width=185 colspan=3><IMG SRC='&imgdir.\com_cus_ser.gif'
ALT='Communication and Customer Service' BORDER=0></td>";
    PUT "<td width=160 colspan=4><IMG SRC='&imgdir.\ratings0.gif' ALT='Ratings'
BORDER=0></td>";
    PUT "    <td width=50 colspan=1><IMG SRC='&imgdir.\prevention.gif' ALT='Prevention'
BORDER=0></td>";
    PUT "    <td width=80 colspan=1><IMG SRC='&imgdir.\healthy.gif' ALT='Healthy
Behaviors' BORDER=0></td>";
    PUT "</tr>";
    PUT "<tr bgcolor= &hdcolr.>";
    %end;
    %else %do;
    PUT "<tr bgcolor= &hdcolr.>";
    PUT "<td>&htmlsp.</td>";

    /*** MAB rearranged 2/11/2005 ***/
    PUT "    <td align='center' valign='bottom' colspan=2><font face='&fontface.'
size='2'><b>Ease of Access</b></font></td>";
    PUT "    <td align='center' valign='bottom' colspan=3><font face='&fontface.'
size='2'><b>Communication and Customer Service</b></font></td>";
    PUT "    <td align='center' valign='bottom' colspan=4><font face='&fontface.'
size='2'><b>Ratings</b></font></td>";
    PUT "    <td align='center' valign='bottom' colspan=1><font face='&fontface.'
size='2'><b>Prevention</b></font></td>";
    PUT "    <td align='center' valign='bottom' colspan=1><font face='&fontface.'
size='2'><b>Behaviors</b></font></td>";
    PUT "</tr>";
    PUT "<tr bgcolor= &hdcolr.>";

```

```

%end;

/** Print out 1st column of 4th row */
/** ÔÔ FRAMES SECTION ÔÔ */
%if &prefix=f %then %do;
  *PUT "<td width=80>&htmlsp.</td>";
  /* MER 05/02/09 trying new values for V4 frames */
  PUT "<td width=125>&htmlsp.</td>";
  /**RSG 02/2005 Added in dummy gif to align title**/
  /*      PUT "<td align='center' valign='bottom'><IMG SRC='&imgdir.\dummy.gif'ALT=' '
BORDER=0>";*/
%end;
%else %do;
  PUT "<td width='8%'><font face='&fontface.'>&htmlsp.</font></td>";
%end;

/** MAB 2/11/2005 */
bennum=1; /** index to all 11 benefits */

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
  FILE XLSTITLE;
  PUT "&major. &comma. &sub_regs.";
  PUT "%mpres('&sub_ben.')";
%end;
/*-----*/
/* 2000/11: begin xls code */
/*-----*/
END;

FILE "&FILEOUT1." MOD ;          /* 2000/11: refer back to htm file */

/** Put Benefits across columns (Continuation of 4th row) */
HREF=COMPRESS("../html&prefix.&var1.-&var2.-" || bennum || "-&var4..htm");

/** If TOTAL benefit then don't have HREF */
/** ÔÔ FRAMES SECTION ÔÔ */
%if &prefix=f %then %do;
  /* MER 05/14/2010 Fix no longer needed */
  /*IF BENNUM=1 OR BENNUM=2 OR BENNUM=3 OR BENNUM=4 OR BENNUM=11 THEN DO;
    IMAGE=COMPRESS("&imgdir.\image0_" || bennum || "_trans.gif");
  END;
  ELSE DO;
    IMAGE=COMPRESS("&imgdir.\image0_" || bennum || ".gif");
  END;*/
  IMAGE=COMPRESS("&imgdir.\image0_" || bennum || ".gif");
  IF BENNUM=0 THEN PUT "<td align='center' valign='bottom'><IMG SRC='&imgdir.\image0_0.gif'
alt='Total' BORDER=0></td>";
  ELSE PUT "<td align='center' valign='bottom'><a href="" HREF +(-1) "" &target.><IMG
SRC="" IMAGE "" alt="" BENEFIT "" BORDER=0></a></td>";

%end;
%else %do;
  IF BENNUM=0 THEN PUT "<td width='8%' align='center' valign='bottom'><font
face='&fontface.'size='1'>" &HEADVAR. "</font></td>";
  /* MER 05/14/2010 Fix no longer needed */
  /*ELSE IF BENNUM<5 OR BENNUM=11 THEN PUT "<td width='8%' align='center'
valign='bottom'><font face='&fontface.'size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR.
+(-1) "<b>#</b></a></font><
  ELSE PUT "<td width='8%' align='center' valign='bottom'><font face='&fontface.'size='1'><a
href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
%end;

bennum+1;

```



```

/**** Sub_head macro variable added C.Rankin 10/25/2001 ****/

%if &sub_head.=1 %then %do;
  /** 3rd Row ***/
  /** UU FRAMES SECTION UU ***/
  %if &prefix=f %then %do;
    PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>"; /** Column 1 **/
    /** If sub-benefits then output sub-benefit columns ***/
    %if &subcols.^=0 %then %do;
      IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
      PUT "<td align='center' valign='bottom' colspan=&subcols.><IMG SRC=" IMAGE "
alt=' BENEFIT ' BORDER=0></td>";
      PUT "<td align='center' valign='bottom' colspan=&qtrs.><IMG
SRC='&imgdir.\composite.gif' ALT='Composite' BORDER=0></td></tr>";
      %end;
    %else %do;
      PUT "<td align='center' valign='bottom' colspan=&qtrs.><IMG
SRC='&imgdir.\border_rating.gif' ALT='Ratings' BORDER=0></td></tr>";
      %end;
    %end;
  %else %do;
    PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>"; /** Column 1 **/
    /** If sub-benefits then output sub-benefit columns ***/
    %if &subcols.^=0 %then %do;
      PUT "<td align='center' valign='bottom' colspan=&subcols.><font
face='&fontface.'><b>&sub_ben.<br>components</b></font></td>";
      PUT "<td align='center' valign='bottom' colspan=&qtrs.><font
face='&fontface.'><b>Composite</b></font></td></tr>";
      %end;
    %else %do;
      PUT "<td align='center' valign='bottom' colspan=&qtrs.><font
face='&fontface.'><b>Ratings</b></font></td></tr>";
      %end;
    %end;
  %end;
%end;

/**** 4th Row start (column 1) ***/
/**** UU FRAMES SECTION UU ***/
%if &prefix=f %then %do;
  PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
  PUT "<td align='center' valign='bottom'><img src='&imgdir.\blank_120_50.gif'
border=0></td>";
  %end;
%else %do;
  PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
  PUT "<td width='10%'>&htmlsp.</td>";
  %end;
%end;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
  FILE XLSTITLE;
  PUT "&major. &comma. &sub_regs.";
  PUT "%cmpres('&sub_ben.')";
%end;
/*-----*/
/* 2000/11: begin xls code */
/*-----*/
END;

FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
/**** Print out column headings ***/

HREF=COMPRESS("../html\help.htm#q&var3.");
HREF1=COMPRESS("../html\help.htm#trend"); /*7-29-2002 DKB ADDED LINK FOR TREND SECTION
OF HELP FILE*/

```



```

    /** MF Changes ROW 1 **/
    PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
    PUT "<tr bgcolor='white'>";
    PUT "    <td colspan=''" SPAN1 +(-1) "" valign='top' bgcolor='#999999'><img border='0'
height='25' width='242' src=&logo.></td>";
    PUT "    <td colspan=''" SPAN2 +(-1) "" align='right' valign='bottom'
bgcolor='#999999'>";
    PUT "        <div align='right'>";
    /** RSG - 09/02/03 Second set of trend pages need to refer to var4=0 pages **/
    PUT "        <a href='../html\&prefix.&var1.-&var2.-&var3.-0&unq..htm' &target.><img
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
    PUT "        <a href='../html\index.htm' &target.><img src=&home_but. border='0'
alt='Return to Main Page'></a>&htmlsp. ";

        /*** 4-17 MAB added JS code to go back ***/
    PUT "&goback.";
    PUT "        <noscript><a href=''" HREFBACK +(-1) "" &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";
    PUT "        &htmlsp. ";
    PUT "        <a href='../html\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
    PUT "    </td>";
    PUT "</tr>";

    /** MF Changes ROW 2 **/
    /** Modified 2-2 MAB to better align title **/
    PUT "<tr>";
    PUT "    <td valign='center' align='center' colspan=''" COLUMNS +(-1) ""
bgcolor='#D8D8D8'>";
    PUT "        <font face='&fontface.' color='#3333cc' size='5'><b>&major.
&comma. &sub_reg. <br>";

    PUT "        &sub_ben.<BR>&currentperiod.</b></font>";

    PUT "    </td>";
    PUT "</tr>";

    /*** Sub_head macro variable added C.Rankin 10/25/2001 ***/

    %if &sub_head.=1 %then %do;
    /*** 3rd Row ***/
    /*** ÛÛ FRAMES SECTION ÛÛ ***/
    %if &prefix=f %then %do;
        PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>"; /** Column 1 **/
        IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
        IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
        PUT "<td align='center' valign='bottom' colspan=&subcols.><IMG SRC=" IMAGE "
alt=' " BENEFIT " ' BORDER=0></td>";
        %end;
    %else %do;
        PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>"; /** Column 1 **/
        PUT "    <td align='center' valign='bottom' colspan=&subcols.><font
face='&fontface.'><b>&sub_ben.<br>components</b></font></td>";
        %end;
    %end;

    /*** 4th Row start (column 1) ***/
    /*** ÛÛ FRAMES SECTION ÛÛ ***/
    %if &prefix=f %then %do;
        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
        PUT "    <td align='center' valign='bottom'><img src='&imgdir.\blank_130_50.gif'
border=0></td>";
        %end;
    %else %do;
        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
        PUT "<td width='10%'>&htmlsp.</td>";
        %end;
    %end;

    qnum=1; /**RSG 08/07/03 Added as counter to use to for link to the trend pages**/

```

```

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
  FILE XLSTITLE;
  PUT "&major. &comma. &sub_regs.";
  PUT "%cmpres('&sub_ben.')";
%end;
/*-----*/
/* 2000/11: begin xls code */
/*-----*/
END;

FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
/**** Print out column headings ****/

/*HREF=COMPRESS("help.htm#q&var3."); */

HREF=COMPRESS("../html&prefix.&var1.-&var2.-&var3.-"||qnum||"&unq..htm");
*** RSG 08/07/03 Use qnum counter to refer to subbenefit trend pages;

*****;
/**** 4th Row (columns 2+) ****/
/**** If quarter column then HREF link is different ****/
/**** ÔÛ FRAMES SECTION ÔÛ ****/
%if &prefix=f %then %do;
  /* MER 05/14/2010 Fix no longer needed */
  /*%if &var3 = 1 or &var3 = 3 %then %do;
  IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||"_trans.gif");
  %end;
  %else %if &var3 = 11 %then %do;
    IF _N_ < 3 THEN IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||"_trans.gif");
    ELSE IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
  %end;
  %else %do;
  IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
  %end;*/
  IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
  PUT "<td align='center' valign='bottom'><a href="" HREF +(-1) "" &target.><IMG SRC="
IMAGE "' alt=' BENTYPE ' BORDER=0></a></td>";
  %end;
  %else %do;
  /* MER 05/14/2010 Fix no longer needed */
  /*%if &var3 = 1 or &var3 = 3 %then %do;
  PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href="" HREF +(-1) "" &target.> &HEADVAR. "<b>#</b></a></font></td>";
  %end;
  %else %if &var3 = 11 %then %do;
  IF _N_ < 3 THEN PUT "<td width='10%' align='center' valign='bottom'><font
face='&fontface.' size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR.
"<b>#</b></a></font></td>";
  ELSE PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
  %end;
  %else %do;
  PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href="" HREF +(-1) "" &target.> &HEADVAR. "</a></font></td>";
  %end;*/
  PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
  %end;

qnum+1; *** RSG 08/07/03 Added to increase the counter;

IF EOF THEN DO;
  PUT "</font></tr>";
/**** 2-2 MAB removed scale row ****/
END;

RUN;
%end;

```



```

                IF BENTYPE = "Pap Smear";
            %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Hypertension";
        %end;
        %else %if &var4. = 4 %then %do;
            IF BENTYPE = "Prenatal Care";
        %end;
    %end;
%else %if &var3. = 11 %then %do;    /** MAB Added 2/11/2005 **/
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Non-Smoking Rate";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Counselled To Quit";
    %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Percent Not Obese";
        %end;
    %end;
call symput('sub2_ben',BENTYPE); **create macro var to use in sub-benefit
                                trend pages (below) - RSG 08/07/03;
%end;

RUN;                                ***MJS 07/03/03 Changed from BENTYPE IN any period and Est.
Quarterly Rate of Change;

DATA _NULL_;
SET JUSTQTR END=EOF;
*LENGTH HREF $ 250;    /*MJS 01/29/04 Commented out statement*/

FILE "&FILEOUT1." MOD ;

COLUMNS=&columns.;
SPAN2=ROUND(COLUMNS/2,1);
SPAN1=COLUMNS-SPAN2;

IF _N_=1 THEN DO;

    FILE "&FILEOUT1." MOD ;    /* 2000/11: moved inside if stmt */

    /** MF Changes ROW 1 **/
    PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
    PUT "<tr bgcolor='white'>";
    PUT "    <td colspan="" SPAN1 +(-) "" "" valign='top' bgcolor='#999999'><img border='0'
height='25' width='242' src=&logo.></td>";
    PUT "    <td colspan="" SPAN2 +(-) "" "" align='right' valign='bottom'
bgcolor='#999999'>";
    PUT "        <div align='right'>";
    PUT "            <a href='../html\&prefix.&var1.-&var2.-&var3.-0&unq..htm' &target.><img
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
    PUT "            <a href='../html\index.htm' &target.><img src=&home_but. border='0'
alt='Return to Main Page'></a>&htmlsp. &htmlsp.";

    /** 4-17 MAB added JS code to go back **/
    PUT "&goback.";

    PUT "        <noscript><a href="" HREFBACK +(-) "" "" &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";
    PUT "            &htmlsp.";
    PUT "            <a href='../html\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
    PUT "        </td>";
    PUT "</tr>";

    /** MF Changes ROW 2 **/
    /** Modified 2-2 MAB to better align title **/
    PUT "<tr>";
    PUT "    <td valign='center' align='center' colspan="" COLUMNS +(-) "" ""
bgcolor='#D8D8D8'>";
    PUT "        <font face='&fontface.' color='#3333cc' size='5'><b>&major.
&comma. &sub_regs. <br>";

```

```

    /** Since trend data don't display reference period **/
    PUT "                &sub_ben.</b></font><br>";
    /** For trend data for each benefit type, display benefit type - RSG 08/07/03***/
    %if &var4. ne 0 %then %do;
    PUT "                <font face='&fontface.' color='#3333cc' size='4'><b>";
    PUT "                &sub2_ben.</b></font>";
    %end;
    PUT "                </td>";
    PUT "</tr>";

    /** 3rd Row ***/
    /** UU FRAMES SECTION UU ***/
    /**PUT "<td></td>"**/

    /** 4th Row start (column 1) ***/
    /** UU FRAMES SECTION UU ***/
    %if &prefix=f %then %do;
    PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
    PUT " <td align='center' valign='bottom'><img src='&imgdir.\blank_130_50.gif'
border=0></td>";
    %end;
    %else %do;
    PUT " <tr bgcolor= &hdcolr.><font face='&fontface.'>";
    PUT " <td width='10%'>&htmlsp.</td>";
    %end;

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
    %if &outxls.=1 %then %do;
    FILE XLSTITLE;
    PUT "&major. &comma. &sub_regs.";
    %if &var4. = 0 %then %do;
    PUT "%cmpres('&sub_ben.')";
    %end;
    %else %do;
    PUT "%CMPRES('&sub_ben. &comma. &sub2_ben.')";
    %end;
    %end;
    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
END;

FILE "&FILEOUT1." MOD ;                /* 2000/11: refer back to htm file */
/** Print out column headings **/

LENGTH HREFf1 $250;
LENGTH HREFf2 $250;
LENGTH HREFf3 $250;
LENGTH HREFf4 $250;

LENGTH HREFp1 $250;
LENGTH HREFp2 $250;
LENGTH HREFp3 $250;
LENGTH HREFp4 $250;

LENGTH HREF5 $250;

****7-29-2002 DKB ADDED LINKS TO COMPONENT PAGES OF PREVIOUS QUARTERS FROM TREND PAGE****;
*****THIS WILL NEED TO BE UPDATED EACH QUARTER*****;
***FRAMES***;
HREFf1=COMPRESS("../Period1\f&var1.-&var2.-&var3.-0.htm");
HREFf2=COMPRESS("../Period2\f&var1.-&var2.-&var3.-0.htm");
HREFf3=COMPRESS("../Period3\f&var1.-&var2.-&var3.-0.htm");
HREFf4=COMPRESS("f&var1.-&var2.-&var3.-0.htm");

```

```

***NO FRAMES***;
HREFp1=COMPRESS("../Period1\p&var1.-&var2.-&var3.-0.htm");
HREFp2=COMPRESS("../Period2\p&var1.-&var2.-&var3.-0.htm");
HREFp3=COMPRESS("../Period3\p&var1.-&var2.-&var3.-0.htm");
HREFp4=COMPRESS("p&var1.-&var2.-&var3.-0.htm");

****HELP FILE FOR TREND COLUMN***;
HREF5=COMPRESS("../html\help.htm#trend"); /*7-29-2002 DKB ADDED LINK FOR TREND SECTION
OF HELP FILE*/

*****;

/* MER 05/09/2009 Temporary fix for V4 transition
No Customer Service composite for April and July, 2008 */
/* MER 08/06/2009 Modified for Q3FY2009 to handle July, 2008 only */
/* MER 10/24/2009 Fix no longer needed */
/*if &var3.=4 %then %do;
HREFf1=HREF5;
HREFf2=HREF5;
HREFp1=HREF5;
HREFp2=HREF5;
%end;*/

/**** 4th Row (columns 2+) ****/
/**** If quarter column then HREF link is different ****/
/**** ÔÔ FRAMES SECTION ÔÔ ****/

*LENGTH HREF $250;

%if &prefix=f %then %do;
/* MER 10/24/2009 Fix no longer needed */
/*if &var3.=4 and &seppage.=2 %then %do;
IF TIMEPD = "April, 2008" OR TIMEPD = "July, 2008" THEN DO;
IMAGE=COMPRESS("&imgdir.\col"||_N_||"_R.gif");
END;
ELSE DO;
IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
END;
%end;*/
/* MER 05/14/2010 Fix no longer needed */
/*if &var3.=1 or &var3.=3 %then %do;
IF TIMEPD = "Est. Quarterly Rate of Change" THEN DO;
IMAGE=COMPRESS("&imgdir.\col"||_N_||"_trans.gif");
END;
ELSE DO;
IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
END;
%end;
%else %do;
IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif"); *DKB CHANGED IMAGE NAME FROM QTR TO COL;
%end;*/
IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif"); *DKB CHANGED IMAGE NAME FROM QTR TO COL;

IF _N_=1 THEN HREF=HREFf1;
ELSE IF _N_=2 THEN HREF=HREFf2;
ELSE IF _N_=3 THEN HREF=HREFf3;
ELSE IF _N_=4 THEN HREF=HREFf4;
ELSE IF _N_=5 THEN HREF=HREFf5;
if timepd ne "Est. Quarterly Rate of Change*" then
PUT "<td align='center' valign='bottom'><a href=''" HREF +(-1) "" &target.><IMG SRC=''"
IMAGE "" alt=''" TIMEPD "" BORDER=0></a></td>";
else do;
IMAGE=COMPRESS("&imgdir.\col"||_N_||"_R.gif");
PUT "<td align='center' valign='bottom'><a href=''" HREF +(-1) "" &target.><IMG SRC=''"
IMAGE "" alt=''" TIMEPD "" BORDER=0></a></td>";
end;
%end;
%else %do;
IF _N_=1 THEN HREF=HREFp1;
ELSE IF _N_=2 THEN HREF=HREFp2;
ELSE IF _N_=3 THEN HREF=HREFp3;
ELSE IF _N_=4 THEN HREF=HREFp4;
ELSE IF _N_=5 THEN HREF=HREFp5;

```

```

/*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE*/

/* MER 10/24/09 Fix no longer needed */
/*%if &var3.=4 and &seppage.=2 %then %do;
  IF TIMEPD = "April, 2008" OR TIMEPD = "July, 2008" THEN DO;
    PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "<b>*</b></a></font></td>";
    END;
  ELSE DO;
    PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
    END;
  %end;*/
/* MER 05/14/2010 Fix no longer needed */
/*%if &var3.=1 or &var3.=3 %then %do;
  IF TIMEPD = "Est. Quarterly Rate of Change" THEN DO;
    PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "<b>#</b></a></font></td>";
    END;
  ELSE DO;
    PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
    END;
  %end;
  %else %do;
    PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
    %end;*/
    PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
  %end;

IF EOF THEN DO;
  PUT "</font></tr>";
  /** 2-2 MAB removed scale row ***/
END;

RUN;

%end;

/** ÔÛ FRAMES SECTION ÔÛ ***/
%if &prefix=f %then %do;
  /** Close out header HTML page ***/
  DATA _NULL_;
    FILE "&FILEOUT1." MOD;

    PUT "</center></table>";
    PUT "</body></html>";
  RUN;

  /** Since done making frame 1 page then assign fileout1 = frame 2 ***/
  %let fileout1=&fileout3.;

  /** Initialize out data HTML page ***/
  DATA _NULL_;
    FILE "&FILEOUT3.";

    PUT "<! Created &datetime.>";
    PUT "<html>";
    PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066'
vlink='#996699'>";
    PUT "<center><table border='1' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
cols=&columns. width=640>";
  RUN;

%end;

```



```

/*****
/**** Put out rest of table ****/
/**** Colored scores and Stub ****/
/*****
%if &seppage.=0 OR &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
***MER 4/21/09 Changed 7/8/9/10 to 6/7/8/9;

DATA HTML3;
  SET SUBSET4;
RUN;
%end;
%else %if &seppage.=1 %then %do;
DATA HTML3;
  SET SUBSET4;

  /**** 8-7-2003 Mark Brinkley ****/
  IF TIMEPD="&currentperiod.";

  /**** Since splitting up table need to delete some records ****/
  /**** Modified 2-2 MAB to deal with new period values **/
  IF BENTYPE="Composite" THEN DELETE; ***DKB ADDED TREND 5/2/2002***;
RUN;
***MJS 07/03/03 Changed from BENTYPE IN any period and
Est. Quarterly Rate of Change;
%end;
%else %if &seppage.=2 %then %do;

DATA HTML3;
  SET SUBSET4;
  /**** Since splitting up table need to delete some records ****/
  /**** Modified 2-2 MAB to deal with new period values **/
  * IF BENTYPE="Composite"; ***DKB ADDED TREND 5/2/2002***;

  *** RSG ADDED VAR4 CONDITIONS FOR SUB-BENEFIT TREND PAGES 08/07/03;
  %if &var4. = 0 %then %do;
    IF BENTYPE="Composite";
  %end;
  %else %if &var4. ne 0 and BENTYPE ne "Composite" %then %do;
    %if &var3. = 1 %then %do;
      %if &var4. = 1 %then %do;
        IF BENTYPE = "Getting to See a Specialist";
      %end;
      %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Getting Treatment";
      %end;
    %end;
    %else %if &var3. = 2 %then %do;
      %if &var4. = 1 %then %do;
        IF BENTYPE = "Wait for Routine Visit";
      %end;
      %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Wait for Urgent Care";
      %end;
    %end;
    %else %if &var3. = 3 %then %do;
      %if &var4. = 1 %then %do;
        IF BENTYPE = "Listens Carefully";
      %end;
      %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Explains so You Can Understand";
      %end;
      %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Shows Respect";
      %end;
      %else %if &var4. = 4 %then %do;
        IF BENTYPE = "Spends Time with You";
      %end;
    %end;
    %else %if &var3. = 4 %then %do;
      %if &var4. = 1 %then %do;
        IF BENTYPE = "Getting Information";
      %end;
      %else %if &var4. = 2 %then %do;

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```

                IF BENTYPE = "Courteous Customer Service";
            %end;
        %end;
    %else %if &var3. = 5 %then %do;
        %if &var4. = 1 %then %do;
            IF BENTYPE = "Claims Handled in a Reasonable Time";
        %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Claims Handled Correctly";
        %end;
    %end;
    %else %if &var3. = 10 %then %do;
        %if &var4. = 1 %then %do;
            IF BENTYPE = "Mammography";
        %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Pap Smear";
        %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Hypertension";
        %end;
        %else %if &var4. = 4 %then %do;
            IF BENTYPE = "Prenatal Care";
        %end;
    %end;
    %else %if &var3. = 11 %then %do;    /** MAB Added 2/11/2005 ***/
        %if &var4. = 1 %then %do;
            IF BENTYPE = "Non-Smoking Rate";
        %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Counselled To Quit";
        %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Percent Not Obese";
        %end;
    %end;
%end;
%end;

RUN;                                ***MJS 07/03/03 Changed from BENTYPE IN any period and Est.
Quarterly Rate of Change;
%end;

/*ÛÛÛÛ ALL MAJGRPS ÛÛÛÛ*/
%if &var1.=0 %then %do;

DATA HTML4;
    SET HTML3 END=EOF;
    *LENGTH HREF $ 250;    /*MJS 01/29/04 Commented out statement*/

    IF MAJGRP="Prime Enrollees" THEN MAJNUM=1;
    IF MAJGRP="Enrollees with Military PCM" THEN MAJNUM=2;
    IF MAJGRP="Enrollees with Civilian PCM" THEN MAJNUM=3;
    IF MAJGRP="Standard/Extra Users" THEN MAJNUM=4;    ***JSO 10/31/07 Added Civilian PCM;
    IF MAJGRP="Purchased Care Users" THEN MAJNUM=5;    ***JSO 07/28/08 Purchased Care Users;
    IF MAJGRP="Active Duty" THEN MAJNUM=6;    *** (MAJNUM=3), and changed 3-7 bacl to 4-8;
    IF MAJGRP="Active Duty Dependents" THEN MAJNUM=7;
    IF MAJGRP="Retirees and Dependents" THEN MAJNUM=8;
    IF MAJGRP="All Users" THEN MAJNUM=9;

    /** HREF link to another page ***/
    /* HREF=COMPRESS("../html/&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
    RSG 02/2005 - changed for period1-3, link goes to that period component page*/
    HREF=COMPRESS("&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
    /** MAB 7-12-2001 updated to reference trend page if needed ***/

    /**RSG 02/2005 - CONUS TREATED AS REGION, COMMENT OUT CODE**/
    /*%if &var2.^=17 and &var2.^=18 and &var2.^=19 and &var2.^=20 %then %do;
        IF SUBSTR(REGION,1,3)="USA" THEN DELETE;
    %end;*/

```

```

LENGTH HREFQ LMAJGRP $ 100; /*MJS 02/11/04*/
RETAIN LMAJGRP;

IF _N_=1 THEN DO;
  LMAJGRP=" ";
  ROW=0;

  /** Add links to trend data 7.6.2001 MAB ***/
  %let columns_less1=%EVAL(&columns.-1);
  %if &seppage.=0 %then %do;
    FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
    PUT "<tr bgcolor= &gray.><td width=' " WIDTH_COL1 "'><font face='&fontface.'
size='2'><b>Trends</b></font></td>";
    /**RSG 02/2005 Comment out next line because total score is removed **/
  /* PUT "<td width=' " WIDTH3 "'>&htmlsp.</td>"; */

    %do i=1 %to 11; ***MER 04/21/09 Changed 12 to 11 for 11 Benefits;
      %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do; ***MER 04/21/09 Changed
7,8,9,10 to 6,7,8,9;
        HREFQ=COMPRESS("../html\&prefix.&var1.-&var2.-&i.-0q.htm"); /** href to 2nd
html file ***/
        %end;
      %else %do;
        HREFQ=COMPRESS("../html\&prefix.&var1.-&var2.-&i.-0.htm"); /** href to 2nd
html file ***/
        %end;

        PUT "<td width=' " WIDTH3 "'><a href=' " HREFQ " ' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a></td>";
        %end;
      PUT "</tr>";
    %end;

  END;

IF LMAJGRP^=MAJGRP THEN DO; /*** Start new row ***/
  FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
  ROW+1;
  IF LMAJGRP^=" " THEN PUT "</tr>"; /** terminate previous row ***/

  /** Column 1 / Row 1 ***/
  /** ÛÛ FRAMES SECTION ÛÛ ***/
  %if &prefix=f %then %do;
    IF MAJGRP IN("Benchmark") THEN PUT "<tr><td width=' " WIDTH_COL1 "'><b><font
face='&fontface.' size='2'>" MAJGRP "</font></b></td>"; /** no HREF links ***/
    %end;
  %else %do;
    IF MAJGRP IN("Benchmark") THEN PUT "<tr><td><b><font face='&fontface.' size='2'>"
MAJGRP "</font></b></td>"; /** no HREF links ***/
    %end;

  /** Column 1 / Row 2+ ***/

  ELSE IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><a href=' " HREF +(-1) " ' &target.> " MAJGRP " </a></font></td>"; /** Shade row **/
  ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href=' " HREF +(-1) " ' &target.>
" MAJGRP " </a></font></td>";

  /**-----*/
  /** 2000/11: begin xls code */
  /**-----*/
  %if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF LMAJGRP^=" " THEN PUT " ";
    IF REGION IN("Benchmark") THEN PUT REGION '09'x @@; /* '09'x ensures text string is
put into one cell */
    ELSE IF MOD(ROW,2)=0 THEN PUT MAJGRP '09'x @@; /* rather than spanning across
cells */
    ELSE PUT MAJGRP '09'x @@;
  %end;

```

```

        %end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

LMAJGRP=MAJGRP;
END;

/**** Column 2+ ****/
/*****
/**** Need to output different formats ****/
/*****
FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */

IF MAJGRP IN("Benchmark") THEN DO;
    IF SCORE=. THEN PUT "<td width=" WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF SCORE=.A THEN PUT "<td width=" WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE PUT "<td width=" WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.
"></font></b></td>";
END;
ELSE DO;
    IF SCORE=. THEN DO;
        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
        END;
    ELSE IF SCORE=.A THEN DO;
        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
        END;
    ELSE DO;
        IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2' color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i></td>";
        ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5. "></font></td>";
        END;
    END;
END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF MAJGRP IN("Benchmark") THEN DO; /* Replaced 1-22 mab */
        IF SCORE=. THEN PUT "****" '09'x @@;
        ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
        ELSE PUT SCORE 3.0 '09'x @@;
    END;
    ELSE DO;
        IF SCORE=. THEN DO;
            PUT "****" '09'x @@;
        END;
        ELSE IF SCORE=.A THEN DO;
            PUT "NA" '09'x @@;
        END;
        ELSE DO;
            IF SIG=1 THEN PUT SCORE 3.0 '09'x @@;
            ELSE IF SIG=. THEN PUT "****" '09'x @@;
            ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
            ELSE IF SIG=-1 THEN PUT SCORE 3.0 '09'x @@;
            ELSE PUT SCORE 3.0 '09'x @@;
        END;
    END;
END;

```

```

END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

IF EOF THEN DO;
FILE "&FILEOUT1." MOD ; /* 2000/11: to refer back to htm file */
PUT "</tr>"; /*** terminate last row **/

%BOTTOM_NOTES; /*** Macro with bottom notes **/

/*-----*/
/* 2000/11: begin xls code */
/*-----*/

%BOTTOM_NOTES_XLS; /*** Macro with bottom notes for XLS **/

/*-----*/
/* 2000/11: end xls code */
/*-----*/

END;
RUN;
%end;

/*ÛÛÛÛ All Regions ÛÛÛÛ*/
%if &var2.=0 %then %do;
DATA HTML4;
SET HTML3 END=EOF;
*LENGTH HREF $ 250; /*MJS 01/29/04 Commented out statement*/

LENGTH LREGION HREFQ $ 100; /*MJS 02/11/04*/
RETAIN LREGION;

IF _N_=1 THEN DO;
LREGION=" ";
REGNUM=1;
ROW=0;

/*** Add links to trend data 7.6.2001 MAB ***/
%let columns_less1=%EVAL(&columns.-1);
%if &seppage.=0 %then %do;
FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
PUT "<tr bgcolor= &gray.><td width=' " WIDTH_COL1 "'><font face='&fontface.'
size='2'><b>Trends</b></font></td>";
/***RSG 02/2005 Commented out next line because no longer have TOTAL score**/
/* PUT "<td width=' " WIDTH3 "'>&htmlsp.</td>"; */

%do i=1 %to 11; /***MER 04/21/09 changed 12 to 11 since we now have 11 benefits;
%if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do; /***MER 04/21/09 Changed
from 7,8,9,10 to 6,7,8,9;
HREFQ=COMPRESS("../html\&prefix.&var1.-&var2.-&i.-0q.htm"); /*** href to 2nd
html file ***/
%end;

%else %do;
HREFQ=COMPRESS("../html\&prefix.&var1.-&var2.-&i.-0.htm"); /*** href to 2nd
html file ***/
%end;

PUT "<td width=' " WIDTH3 "'><a href=' " HREFQ "' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a></td>";
%end;
PUT "</tr>";
%end;

```

END;

```
IF LREGION^=REGION THEN DO;                /*** Start new row ***/
FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
ROW+1;
IF LREGION^=" " THEN PUT "</tr>"; /*** terminate previous row ***/

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
FILE XLSDATA;
IF LREGION^=" " THEN PUT " "; /*** terminate previous row ***/
FILE "&FILEOUT1." MOD ; /* 2000/11: to refer back to htm file */
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

/*** Column 1 / Row 1 ***/
/*** UÛ FRAMES SECTION UÛ ***/
%if &prefix=f %then %do;
IF REGION IN("Benchmark") THEN PUT "<tr><td width=" WIDTH_COL1 "><b><font
face='&fontface.' size='2'>" REGCAT "</font></b></td>"; /*** no HREF links ***/
%end;
%else %do;
IF REGION IN("Benchmark") THEN PUT "<tr><td><b><font face='&fontface.' size='2'>"
REGCAT "</font></b></td>"; /*** no HREF links ***/
%end;
ELSE DO; /*** HREF links for each region ***/

/*HREF=COMPRESS("../html\&prefix.0-||REGNUM||"-&var3.-&var4.&q..htm");
RSG 02/2005 - Changed link so period1-3 will link to appropriate component page*/
HREF=COMPRESS("&prefix.0-||REGNUM||"-&var3.-&var4.&q..htm");

/*** MAB 7-12-2001 updated to reference trend page if needed ***/

/*** Certain major groups are not large enough to show ***/
/*** catchment level detail. so don't add HREF link here ***/
/*** Remove since qtrs not going down to catchment level ***/
/***if &var1.=3 or &var1.=5 or &var1.=6 %then %do; ***MJS 05/04/03 Removed Civilian
PCM (&var1.=3), and changed 4,6,7 to 3,5,6;
IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.' size='2'>
" REGCAT " </font></td>"; Shade row
ELSE PUT "<tr><td><font face='&fontface.' size='2'> " REGCAT " </font></td>";
%end;
%else %do;
IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><a href="" HREF +(-1) ""> " REGCAT " </a></font></td>"; Shade row
ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href="" HREF +(-1) ""> "
REGCAT " </a></font></td>";
%end;**/

/*** Column 1 / Row 2+ ***/
%if &prefix=f %then %do;
if regcat = "NORTH" or regcat = "SOUTH" or regcat="WEST" or
regcat = "OVERSEAS" or regcat="US MHS" then do; /* MER 08/27/09 changed to US
MHS */
IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><b><font face='&fontface.'
size='2'><a href="" HREF +(-1) ""> &target.> " REGCAT " </a></b></font></td>"; /*** Shade row
**/
ELSE PUT "<tr><td><b><font face='&fontface.' size='2'><a href="" HREF +(-1)
""> &target.> " REGCAT " </a></b></font></td>";
end;
else do;
IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><a href="" HREF +(-1) ""> &target.> " REGCAT " </a></font></td>"; /*** Shade row **/
```

```

ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href="" HREF +(-1) ""
&target.> " REGCAT " </a></font></td>";
end;
%end;
%else %do;
if regcat = "NORTH" or regcat = "SOUTH" or regcat="WEST" or
regcat = "OVERSEAS" or regcat="US MHS" then do; /* MER 08/27/09 changed to US
MHS */
IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><b><font face='&fontface.'
size='2'><a href="" HREF +(-1) "" &target.> " REGCAT " </a></b></font></td>"; /** Shade row
**/
ELSE PUT "<tr><td><b><font face='&fontface.' size='2'><a href="" HREF +(-1)
"" &target.> " REGCAT " </a></b></font></td>";
end;
else do;
IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><a href="" HREF +(-1) "" &target.> " REGCAT " </a></font></td>"; /** Shade row **/
ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href="" HREF +(-1) ""
&target.> " REGCAT " </a></font></td>";
end;
%end;

REGNUM+1;

/**RSG 02/2005 Conus treated as Region, comment out code**/
/**IF SUBSTR(REGION,1,3) = "USA" THEN DO;
REGNUM=ORIGNUM;
END;**/

END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
FILE XLSDATA;
IF REGION IN("Benchmark") THEN PUT REGCAT '09'x @@; /* no logic difference */
ELSE DO;
IF MOD(ROW,2)=0 THEN PUT REGCAT '09'x @@; /* just presentation difference
in htm */
ELSE PUT REGCAT '09'x @@; /* keeping as is to preserve
htm code structure */
END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

LREGION=REGION;
END;

/** Column 2+ **/
/*****
**** Need to output different formats ****
*****/
FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
IF REGION IN("Benchmark") THEN DO; /*** no significance ***/
IF SCORE=. THEN PUT "<td width=' ' WIDTH3 ' ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE IF SCORE=.A THEN PUT "<td width=' ' WIDTH3 ' ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE PUT "<td width=' ' WIDTH3 ' ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.
"></font></b></td>";
END;
ELSE DO;
IF SCORE=. THEN DO;
PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
END;
ELSE IF SCORE=.A THEN DO;

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```

        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5.  "></font></b></td>";
    END;
    ELSE DO;
        IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2' color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
        ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
        ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
        ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></i></td>";
        ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></td>";
    END;
END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF REGION IN("Benchmark") THEN DO;
        IF SCORE=. THEN PUT "****" '09'x @@;
        ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
        ELSE PUT SCORE 3.0 '09'x @@;
    END;
    ELSE DO;
        IF SCORE=. THEN DO;
            PUT "****" '09'x @@;
        END;
        ELSE IF SCORE=.A THEN DO;
            PUT "NA" '09'x @@;
        END;
        ELSE DO;
            IF SIG=1 THEN PUT SCORE 3.0 '09'x @@;
            ELSE IF SIG=. THEN PUT "****" '09'x @@;
            ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
            ELSE IF SIG=-1 THEN PUT SCORE 3.0 '09'x @@;
            ELSE PUT SCORE 3.0 '09'x @@;
        END;
    END;
END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
    PUT "</tr>"; /** terminate last row **/

    %BOTTOM_NOTES; /** Macro with bottom notes **/

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/

    %BOTTOM_NOTES_XLS; /** Macro with bottom notes for XLS **/

    /*-----*/
    /* 2000/11: end xls code */
    /*-----*/

END;

RUN;

%end;

```



```

/*ÛÛÛÛ Single Regions ÛÛÛÛ*/
/* This code is not applicable for the 2000 report cards */
/* since not enough data to display sub-region info. */
/* Will leave in code in case this changes */
%if &var2.^=0 AND &var1.^=0 %then %do;
DATA HTML4;
  SET HTML3 END=EOF;

  LENGTH LREGCAT $ 100 /*HREF $ 250*/; /*MJS 01/29/04 Commented out HREF statement*/
  RETAIN LREGCAT; /*MJS 02/11/04*/

  IF _N_=1 THEN DO;
    LREGCAT=" ";
    ROW=0;
  END;

  IF LREGCAT^=REGCAT THEN DO; /*** Start new row ***/
    FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
    ROW+1;
    IF LREGCAT^=" " THEN PUT "</tr>"; /*** terminate previous row ***/
    IF REGCAT IN("Benchmark") THEN PUT "<tr><td><b><font face='&fontface.' size='2'>" REGCAT
"</font></b></td>";
    ELSE IF SUBSTR(REGCAT,1,2) = "US" THEN PUT "<tr bgcolor= &gray.><td><b><font
face='&fontface.' size='2'>" REGCAT "</font></b></td>";
    ELSE IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'>" REGCAT "</font></td>"; /*** Shade row **/
    ELSE PUT "<tr><td><font face='&fontface.' size='2'>" REGCAT "</font></td>";

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
    %if &outxls.=1 %then %do;
      FILE XLSDATA;
      IF LREGCAT^=" " THEN PUT " ";
      IF REGCAT IN("Benchmark") THEN PUT REGCAT '09'x @@; /* no logic
difference */
      ELSE IF SUBSTR(REGCAT,1,2) = "US" THEN PUT REGCAT '09'x @@;
      ELSE IF MOD(ROW,2)=0 THEN PUT REGCAT '09'x @@; /* just presentation
difference in htm */
      ELSE PUT REGCAT '09'x @@; /* keeping as is to
preserve htm code structure */
    %end;
    /*-----*/
    /* 2000/11: end xls code */
    /*-----*/

    LREGCAT=REGCAT;

  END;

  /******
  /*** Need to output different formats *****/
  /******
  FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
  IF REGION IN("Benchmark") THEN DO; /*** no significance ***/
    IF SCORE=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF SCORE=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE PUT "<td align='center' valign='bottom'><b><font face='&fontface.' color=&blue.
size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
  END;
  ELSE DO;
    IF SCORE=. THEN DO;

```

```

        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
    END;
    ELSE IF SCORE=.A THEN DO;
        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
    END;
    ELSE DO;
        IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2' color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
        ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i></td>";
        ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5. "></font></td>";
    END;
END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF REGION IN("Benchmark") THEN DO;
        IF SCORE=. THEN PUT "****" '09'x @@;
        ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
        ELSE PUT SCORE 3.0 '09'x @@;
    END;
    ELSE DO;
        IF SCORE=. THEN DO;
            PUT "****" '09'x @@;
        END;
        ELSE IF SCORE=.A THEN DO;
            PUT "NA" '09'x @@;
        END;
        ELSE DO;
            IF SIG=1 THEN PUT SCORE 3.0 '09'x @@;
            ELSE IF SIG=. THEN PUT "****" '09'x @@;
            ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
            ELSE IF SIG=-1 THEN PUT SCORE 3.0 '09'x @@;
            ELSE PUT SCORE 3.0 '09'x @@;
        END;
    END;
END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
    PUT "</tr>"; /* terminate last row */

    %BOTTOM_NOTES; /* Macro with bottom notes */

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/

    %BOTTOM_NOTES_XLS; /* Macro with bottom notes for XLS */

    /*-----*/
    /* 2000/11: end xls code */
    /*-----*/

END;

RUN;
%end;

```

```

/*****
/**** Print out footer info ****
/*****
DATA _NULL_;
FILE "&FILEOUT1." MOD ;
LENGTH HREF $250;

/** Determine where back button should link to **/
%if &var1.=0 %then %do;
    HREFBACK=COMPRESS("&prefix.8-0-0-0.htm");    ***MJS 05/14/03 Changed 8 to 7;
%end;
%else %do;
    HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
%end;

/*HERE!*/

/** MF Changes **/
PUT "<tr>";
PUT "    <td colspan='&columns.'>";
PUT "        <center>";
PUT "            <a href='../html\index.htm' &target.><img src=&home_but. border='0'
alt='Return to Main Page'></a>&htmlsp.&htmlsp.";
        /*** 7-17 MAB added JS code to go back ***/
PUT "&goback.";
PUT "            <noscript><a href="" HREFBACK +(-1) "" &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";

PUT "            <a href='../html\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a><br>";
PUT "                <font face='Arial,Helvetica,Swiss,Geneva' size='2'><b>&grpmsg.<br>";
PUT "                </b></font>";

majgrp1=COMPRESS("&prefix.1-&var2.-&var3.-&var4.&q..htm");
majgrp2=COMPRESS("&prefix.2-&var2.-&var3.-&var4.&q..htm");
majgrp3=COMPRESS("&prefix.3-&var2.-&var3.-&var4.&q..htm");    ***JSO 10/31/07 Added Civilian
PCM;
majgrp4=COMPRESS("&prefix.4-&var2.-&var3.-&var4.&q..htm");    ***&(majgrp3), and changed 3-7
back to 4-8;
majgrp5=COMPRESS("&prefix.5-&var2.-&var3.-&var4.&q..htm");    ***JSO 07/28/08 Added Purchased
Care Users;
majgrp6=COMPRESS("&prefix.6-&var2.-&var3.-&var4.&q..htm");
majgrp7=COMPRESS("&prefix.7-&var2.-&var3.-&var4.&q..htm");
majgrp8=COMPRESS("&prefix.8-&var2.-&var3.-&var4.&q..htm");
majgrp9=COMPRESS("&prefix.9-&var2.-&var3.-&var4.&q..htm");

/*** Certain major groups are not large enough to show ***/
/*** catchment level detail. So if we are in html file ***/
/*** which has this detail then don't link to a html ***/
/*** file which doesn't exist ***/

%if &var1.^=0 %then %do;
    %if &var1.^=4 and &var1.^=6 and &var1.^=7 and &var2.^=0 %then %do;    ***JSO 10/31/07 Added
Civilian PCM (&var1.^=3), changed 3,5,6 back to 4,6,7;
        ***and changed MAJGRP
4&7 below back to 5&8;
        PUT "<a href="" MAJGRP1 +(-1) "" &target.><font face='&fontface.' size='2'>Prime
Enrollees</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP2 +(-1) "" &target.><font face='&fontface.' size='2'>Enrollees
with Military PCM</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP6 +(-1) "" &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP9 +(-1) "" &target.><font face='&fontface.' size='2'>All
Users</font></a>";

    %end;
%else %do;

```

```

        PUT "<a href="" MAJGRP1 +(-1) "" &target.><font face='&fontface.' size='2'>Prime
Enrollees</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP2 +(-1) "" &target.><font face='&fontface.' size='2'>Enrollees
with Military PCM</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP3 +(-1) "" &target.><font face='&fontface.' size='2'>Enrollees
with Civilian PCM</font></a>&htmlsp.&htmlsp.";      ***JSO 10/31/07 Added Civilian PCM;
        PUT "<a href="" MAJGRP4 +(-1) "" &target.><font face='&fontface.'
size='2'>Standard/Extra Users</font></a>&htmlsp.&htmlsp.";      ***(MAJGRP5), and changed 3-
7 back to 4-8;
        PUT "<a href="" MAJGRP5 +(-1) "" &target.><font face='&fontface.' size='2'>Purchased
Care Users</font></a>&htmlsp.&htmlsp.";      ***JSO 07/28/08 Added Purchased Care Users;
        PUT "<br>";
        PUT "<a href="" MAJGRP6 +(-1) "" &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP7 +(-1) "" &target.><font face='&fontface.' size='2'>Active Duty
Dependents</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP8 +(-1) "" &target.><font face='&fontface.' size='2'>Retirees
and Dependents</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP9 +(-1) "" &target.><font face='&fontface.' size='2'>All
Users</font></a>";

        %end;
    %end;

    /*** link to printer friendly version moved C.Rankin 10/25/2001 ***/

    /*** 4-17 MAB added ***/
    /*** If creating frames need link to printer friendly version of file ***/
    /***DANIELE ADDED BR STATEMENT ON 11/1/01 SO PRINTER ICON WOULD SHOW UP ON SEPARATE LINE ***/
    %if &prefix=f %then %do;
        HREFP=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..htm");
        PUT "          <BR><font face='Arial,Helvetica,Swiss,Geneva' size='1'><a href=' " HREFP " '
&target.><img src='&imgdir.\printer.gif' alt='Printer Friendly Page' border=0>Printer Friendly
Page</a></font>
        %end;

RUN;

    /*** Close HTML page ***/
    DATA _NULL_;
        FILE "&FILEOUT1." MOD ;

        PUT "</center></td></tr></table>";
        PUT "</body></html>";

RUN;

    /*-----*/
    /* 2000/12: begin xls color code */
    /*-----*/
    %if &outxls.=1 %then %do;

        /* Align 2 titles */
        DATA _NULL_;
            FILE SAS2XL;
            CELL=COMPRESS("[SELECT("R1C1:R1C"||&columns.||"")]"); PUT CELL;
            PUT '[ALIGNMENT(3, False, 3,0, False,,True)]'; /** Merges titles across columns **/
            CELL=COMPRESS("[SELECT("R2C1:R2C"||&columns.||"")]"); PUT CELL;
            PUT '[ALIGNMENT(3, False, 3,0, False,,True)]'; /** Merges titles across columns **/
        RUN;

        DATA _NULL_;
            FILE SAS2XL;
            SET HTML4(DROP=ROW) END=EOF;

            RETAIN ROW COLUMN;

        /*** Need to initialize row and column pointers ***/

```



```

%LET PREFIX=p;
%LET OUTXLS=0;

%MKHTML(0,21,2,2,0);
%MKHTML(1,0,1,2,0);
%MKHTML(1,0,2,2,0);
%MKHTML(1,0,4,2,0);
%MKHTML(2,0,2,2,0);
%MKHTML(2,0,4,2,0);
%MKHTML(3,0,11,2,0);
%MKHTML(3,0,2,2,0);
%MKHTML(3,0,4,2,0);
%MKHTML(4,0,1,2,0);
%MKHTML(4,0,2,2,0);
%MKHTML(6,0,11,2,0);
*/

*****;
**** Create macros to call MKHTML macro ****;
*****;

/**** Create 8 HTML pages (8 Majgrps / All Regions / All Benefits)****/
%MACRO DOALL1();
    %MKHTML(1,0,0,0,0);
    %MKHTML(2,0,0,0,0);
    %MKHTML(6,0,0,0,0);
    %MKHTML(9,0,0,0,0);
    %MKHTML(3,0,0,0,0);    ***JSO 10/31/07 Added Civilian PCM (Majgrp 3), and changed 3-7
back to 4-8;
    %MKHTML(4,0,0,0,0);
    %MKHTML(5,0,0,0,0);    ***JSO 07/28/08 Added Purchased Care Users;
    %MKHTML(7,0,0,0,0);
    %MKHTML(8,0,0,0,0);
%MEND DOALL1;

/**** Create 322 HTML pages (8 Majgrps / All Regions / 12 Benefits)****/
%MACRO DOALL2();
    %DO J=1 %TO 9;                                     /**** JSO Changed 8 to 9
07/28/2008 ****/
    %DO K=1 %TO 11;          * 11 Sub-benefits ;          /**** MER Changed 12 to 11 04/21/2009
****/
        %MKHTML(&J.,0,&K.,1,0);    ***RSG 08/07/03 Add var4 part of new page numbers;

        /**** Call macro for 2nd page (except for ratings benefits) ****/
        %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
            %IF &K. = 3 OR &K. = 10 %THEN %DO L= 0 %TO 4;    ***RSG 08/07/03 There are different
number of                                     sub-benefits trend pages for each benefit so
need a counter "L"                             to do different number of pages for each
benefit;
            %MKHTML(&J.,0,&K.,2,&L.);
            %END;
            %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
            %MKHTML(&J.,0,&K.,2,&L.);
            %END;
            %ELSE %IF &K. = 11 %THEN %DO L = 0 %TO 3;
            %MKHTML(&J.,0,&K.,2,&L.);
            %END;
        %end;
    %END;
%MEND DOALL2;

/**** Create 25 HTML pages (All Majgrps / 23 Regions / All Benefits) ****/
%MACRO DOALL3();
    %DO J=1 %TO 23;

```

```

        %MKHTML(0,&J.,0,0,0);
    %END;
%MEND DOALL3;

/** Need to populate new table for all majgrps **/
/** Create 1150 HTML pages (All Majgrps / 23 Regions / 12 Benefits) **/
%MACRO DOALL4();
    %DO J=1 %TO 23;
        %DO K=1 %TO 11;
            %MKHTML(0,&J.,&K.,1,0);
            /** Call macro for 2nd page (except for ratings benefits) **/
            %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
                %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4; ***RSG 08/07/03 Counter "L" for
different number;
                    %MKHTML(0,&J.,&K.,2,&L.);
                    *of sub-benefit trend
pages for each benefit;
                %END;
                %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
                    %MKHTML(0,&J.,&K.,2,&L.);
                %END;
                %ELSE %IF &K. = 11 %THEN %DO L = 0 %TO 3;
                    %MKHTML(0,&J.,&K.,2,&L.);
                %END;
            %end;
        %END;
    %END;
%MEND DOALL4;

/** Create 4 HTML pages (All Majgrps / 4 Region-ConusMHS / All Benefits) **/
/** RSG 02/2005 - CONUS TREATED AS ANOTHER REGION**/
/*%MACRO DOALL5();
    %DO K=17 %TO 20;
        %MKHTML(0,&K.,0,0,0);
    %END;
%MEND DOALL5;

%MACRO DOALL6();
    %DO J = 17 %TO 20;
        %DO K=1 %TO 12;    ***MJS 4/23/03 Changed 2 to 1 and 12 to 11;
            %MKHTML(0,&J.,&K.,1,0);
            /** Call macro for 2nd page (except for ratings benefits) **/
/*            %if &k.^=7 AND &k.^=8 AND &k.^=9 AND &k.^=10 %then %do;
                %IF &K. = 1 OR &K. = 2 OR &K. = 4 %THEN %DO L = 0 %TO 4; ***RSG 08/07/03
counter for sub-benefit trend pages;
                    %MKHTML(0,&J.,&K.,2,&L.);
                    ***MJS 4/23/03 Changed
8/9/10/11 to 7/8/9/10;
                %END;
                %ELSE %IF &K. = 3 OR &K. = 6 OR &K.=12 %THEN %DO L = 0 %TO 2;
                    %MKHTML(0,&J.,&K.,2,&L.);
                %END;
                %ELSE %IF &K. = 5 %THEN %DO L = 0 %TO 3;
                    %MKHTML(0,&J.,&K.,2,&L.);
                %END;
                %ELSE %IF &K. = 11 %THEN %DO L = 0 %TO 5;
                    %MKHTML(0,&J.,&K.,2,&L.);
                %END;
            %end;
        %END;
    %end;
%MEND DOALL6;
*/

/** Run macro to create Printer Friendly HTML files (non-frames) **/

%LET PREFIX=p;
%LET OUTXLS=0;

```

```
%DOALL1;  
%DOALL2;  
%DOALL3;  
%DOALL4;
```

```
/** Run macro to create Excel files ONLY **/
```

```
%LET PREFIX=p;  
%LET OUTXLS=1;  
%DOALL1;  
%DOALL2;  
%DOALL3;  
%DOALL4;
```

```
/** Run macro to create Frame HTML files **/
```

```
%LET PREFIX=f;  
%LET OUTXLS=0;  
%DOALL1;  
%DOALL2;  
%DOALL3;  
%DOALL4;
```

```
%PUT "&number_html_files. HTML files created.";
```

```
*****;  
*****;  
*****;  
*****;  
*****;  
*****;  
*****;
```


G.9.A REPORTCARDS\CAHPS_ADULT2010\STEP1Q.SAS - CREATE AND RECODE VARIABLES USED IN ADULT BENEFICIARY REPORTS - ANNUAL.

```

*****
*
* PROJECT:  DoD - Quarterly Adult Report Cards
* PROGRAM:  STEP1Q.SAS
* PURPOSE:  Create Dummy and Recode Variables used in Adult Report Card
*           Create a Female dummy variable
*           Create an Education dummy variable
*           Create 15 region dummies combining regions.
*           7 & 8 into region 8. That is, there
*           isn't a region 7 dummy.
*           Create 7 age dummy variables.
*
*           We require the most desired code to be the highest value.
*           Recode the dependent variables into:
*           1 - the least desirable value
*           2 - the 2nd least desirable value
*           3 - the most desirable value
*           . - missing
*
*           Create 7 variables GROUP1 - GROUP7
*           IF (XINS_COV IN (1,2,6) AND H09004>=2) THEN GROUP1 = 1
*           IF (XENR_PCM IN (1,2,6) AND H09004>=2) THEN GROUP2 = 1
*           IF (XENR_PCM = 3,7 AND H09004>=2) THEN GROUP3 = 1
*           IF XINS_COV IN (3) THEN GROUP4 = 1
*           /*JSO 08/24/2006, Deleted 4,5*/
*           IF XBNFGRP = 1 THEN GROUP5 = 1
*           IF XBNFGRP = 2 THEN GROUP6 = 1
*           IF XBNFGRP IN (3,4) THEN GROUP7 = 1
*           GROUP8 is output for all beneficiaries
*
* MODIFIED: 1) February 2001 By Keith Rathbun, Update for quarterly
*           adult report cards.  Removed permanent dataset ENTIRE.SD2.
*           2) August 2001 By Keith Rathbun, Updated DSN and LIBNAME
*           for 3rd quarter adult report cards.
*           3) OCTOBER 2001 BY DANIELE BEAHM, Because there was no post-
*           stratification done in Q3, changed all references of the
*           POSTSTR variable to ADJ_CELL
*           4) JANUARY 2002 BY DANIELE BEAHM, Modified group3 to include
*           XENR_PCM
*           5) April 2002 By Mike Scott, Updated variable names for 2002
*           survey.
*           6) July 2002 By Mike Scott: See Note #2.  Replaced variable
*           S02S01 with H04075 (new health status variable), deleted
*           code to recode S02S01 to H00077, and changed H00077/R00077
*           rename/recode to H04075/R04075 rename/recode.  The Hispanic/
*           Latino variable is not present.
*           7) January 2003 By Mike Scott, Changed ADJ_CELL to COM_SAMP.
*           8) March 2003 By Mike Scott, Updated variable names for 2003
*           survey.
*           9) June 2003 By Mike Scott, Updated for Q2 2003.
*           10) July 2003 By Mike Scott, Changed COM_SAMP to ADJ_CELL.
*           11) October 2003 By Mike Scott, Updated for Q3 2003.
*           12) January 2004 By Mike Scott, Updated for Q4 2003, and changed
*           DAGEQY to FIELDAGE.
*           13) March 2004 By Mike Scott, Updated for Q1 2004.
*           14) April 2004 By Keith Rathbun, Removed reverse coding for
*           H04031.  2004 survey question wording is 'Within 15 minutes'
*           instead of "More than 15 Minutes".  Added service affiliation
*           variables so only one version of this program is needed to
*           handle the consumer watch processing.
*           15) June 2004 by Regina Gramss, Updated for Q2 2004.
*           16) Sept 2004 by Regina Gramss, changed XRegion to xtenxreg, updated for Q3 2004.
*           17) Jan 2005 by Regina Gramss, changed XTENXREG to XSERVREG to include
*           service affiliation.  Regions have been changed from 4 categories to 16.
*           18) Apr 2005 by Regina Gramss, updated field names for 2005 data.
*           19) Jul 2005 by Regina Gramss, updated for Q2 2005
*           20) Oct 2005 by Regina Gramss, updated for Q3 2005
*           21) Dec 2005 by Regina Gramss, updated for Q4 2005
*           22) March 21, 2006 by Keith Rathbun, updated variable names
*           for Q2 FY 2006.  Changed references to ADJ_CELL to be STRATUM.

```

- * 23) July 12, 2006 by Justin Oh, updated for Q3 FY 2006
- * 24) Aug 22, 2006 by Justin Oh, changed overseas to 3 regions.
Regions have been changed from 16 categories to 24.
Added XOCONUS to the Keep statement for Overseas classifications.
Changed XSERVREG for Overseas (Europe,Pacific,Latin America).
Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1
IF XINS_COV IN (3) THEN GROUP4 = 1
Since only XINS_COV IN (1,2,3,6) is kept, (4,5) not needed.
- * 25) Oct 03, 2006 by Justin Oh, changed input data HCS063_1 to HCS064_1
for Q4FY2006 reports.
- * 26) Apr 05, 2007 by Justin Oh, Added %LET BCHTYPE to select BCH types
Benchmark OR PurchasedBenchmark.
- * 27) Apr 05, 2007 by Justin Oh, Added changes to select RC types
ReportCards OR PurchasedReportCards.
- * 28) Apr 26, 2007 by Justin Oh, Added codes, variables for new
reservists logic.
- * 29) May 15, 2007 by Justin Oh, Changed XINS_COV to NXNS_COV to assign
Groups 1,3, and 4 for new reservists logic.
- * 30) Jul 30, 2007 by Justin Oh, Added added DBENCAT conditions to assign
Groups All, 4, 5, and 6.
- * 31) Oct 02, 2007 by Justin Oh, changed input data HCS073_1 to HCS074_1
for Q4FY2007 reports.
- * 32) January 10, 2008 by Keith Rathbun, updated variable names
for Q1 FY 2008.
- * 33) Apr 11, 2008 by Justin Oh, changed input data HCS081_1 to HCS082_1
for Q2FY2008 reports.
- * 34) June 13, 2008 by Keith Rathbun, changed input data HCS082_1 to HCS083_1
for Q3FY2008 reports.
- * 35) Jan 16, 2009 by Mike Rudacille, changed CONUS variable to USA
- * 36) Jan 21, 2009 by Mike Rudacille, changed 2009 questionnaire variables
applicable to both V3 and V4 from V3 names to V4 names
- * 37) March 11, 2009 by Keith Rathbun, changed input data HCS091_1 to HCS092_1
for Q2FY2009 reports.
- * 38) April 6, 2009 by Mike Rudacille, changed variable names to reflect
modifications to beneficiary reports necessary for V4
- * 39) June 22, 2009 By Keith Rathbun, Change weight variable from
FWRWT_V4 back to FWRWT. Changed input data HCS092_1 to HCS093_1
for Q3FY2009 reports.
- * 40) Sept 30, 2009 By Mike Rudacille, Changed input data HCS093_1 to HCS094_1
for Q4FY2009 reports.
- * 41) October 5, 2009 by Emma Ernst for 2009 Reports
- * 42) September 7, 2010 by Mike Rudacille for 2010 Reports
- * 43) November 2, 2010 by Mike Rudacille Changed input data from HCS10A_1 to HCS10A_2

```

* INPUTS: 1) HCSyyyq_1 - DoD Quarterly HCS Database
*
* OUTPUTS: 1) GROUP1-8.sas7bdat - DoD Quarterly GROUP files as defined above
*
* INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional
*              values for consistency w/ TOPS
*
* NOTES: 1) Groups 1-3 modified 10/09/2000
*
*          2) In Q1_2002, S02S01 was renamed and recoded to H00077 (health
*              status variable for 2000). H02077 was the Hispanic/Latino
*              variable. In Q2_2002, H02077 is health status, and H02079
*              is the Hispanic/Latino variable. To make the Quarter 2 data
*              file (HSC022_1.sd2) more consistent with the Quarter 1 file,
*              the health status variable which was H02077 is now H04075,
*              and the Hispanic/Latino variable which was H02079 is now
*              H02077.

```

*****;

```

/** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ***/
%LET RCTYPE = ReportCards;

OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr NOOVP COMPRESS=YES;
LIBNAME OUT "DATA";
LIBNAME IN1 "..\..\..\Data";
LIBNAME LIBRARY "..\..\..\Data\fmtlib";

%LET WGT= CFWT;

```

TITLE1 'Program Saved as: STEP1Q.SAS';

proc format;

value servreg 1 = 'North Army'
2 = 'North Air Force'
3 = 'North Navy'
4 = 'North Other'
5 = 'South Army'
6 = 'South Air Force'
7 = 'South Navy'
8 = 'South Other'
9 = 'West Army'
10 = 'West Air Force'
11 = 'West Navy'
12 = 'West Other'
13 = 'Europe Army'
14 = 'Europe Air Force'
15 = 'Europe Navy'
16 = 'Europe Other'
17 = 'Pacific Army'
18 = 'Pacific Air Force'
19 = 'Pacific Navy'
20 = 'Pacific Other'
21 = 'Latin America Army'
22 = 'Latin America Air Force'
23 = 'Latin America Navy'
24 = 'Latin America Other';

DATA ENTIRE;

SET IN1.HCS10A_2(KEEP=
MPRID
FIELDAGE /*MJS 01/26/04*/
XTNEXREG
SERVAFF /*KRR 04/09/04*/
DBENCAT /*JSO 04/26/2007, added for reservists logic*/
USA
ENBGSMPL
SREDA
XSEXA
XCATCH
XBNFGRP
STRATUM /*KRR 04/03/2006, changed from ADJ_CELL*/
XINS_COV
XENR_PCM
XOCONUS /*JSO 08/24/2006, Overseas Region Indicator*/
&WGT
QUARTER
/* Getting Needed Care */
H10033
H10029
/* Getting Care Quickly */
H10007
H10010
/* How Well Doctors Communicate */
H10021
H10022
H10023
H10024
/* Customer Service */
H10040
H10041
/* Claims Processing */
H10045
H10046 /******/
H10063 /* Health Status */
H10018 /* Health Care Rating */
H10047 /* Health Plan Rating */
H10027 /* Personal Doctor Rating */
H10031 /* Specialist Rating */
H10003 /* Health Plan Used *//*JSO 04/26/2007, added for reservists
logic*/
H10004 /* How Long in Health Plan */
/******/

```

    );
FORMAT _ALL_;

IF SERVVAFF='A' THEN XSERVAFF=1;           *Army;
  ELSE IF SERVVAFF='F' THEN XSERVAFF=2;   *Air Force;
  ELSE IF SERVVAFF='N' THEN XSERVAFF=3;   *Navy;
  ELSE XSERVAFF=4;                         *Other;

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE; /* RSG 02/2005 USE CACSMPL TO DELETE MISSING FIELDS*/

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV;                      /*JSO 04/26/2007 added for reservists logic*/
                                           /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR_PCM = .;
END;
                                           /* Note: use tmp_cell in step2q.sas */
LENGTH TMP_CELL XSERVREG 8;
TMP_CELL = STRATUM; /*KRR 04/03/2006, changed from ADJ_CELL*/

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 13;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 14;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 15;
    ELSE XSERVREG = 16;
  END;
  IF XOCONUS = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 17;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 18;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 19;
    ELSE XSERVREG = 20;
  END;
  IF XOCONUS = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 21;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 22;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 23;
    ELSE XSERVREG = 24;
  END;
END;

IF XSERVREG = . THEN DELETE; /* MER 11/10/10 - Deletes records with imputed TNEXREG = 'O'
*/
                                           /* and missing XOCONUS. (Only applies to CACSMPL = 9904)
*/

RENAME XCATCH=CACSMPL;

```

```

WRWT=&WGT;

RUN;

*-----;
* create variable names for catchment area dummies ;
*-----;

* create a file of catchment areas (UNIQUE) using the sort to drop;
* all duplicate catchment areas leaving one record per;
* unique catchment area code;
PROC SORT DATA=ENTIRE OUT=UNIQUE(KEEP=CACSMPL) NODUPKEY;
  BY CACSMPL;
RUN;

* create a file (FILEA) with catchment areas codes and a catchment;
* name consisting of "CAT" concatenated with a 4 digit number;
* created by ting of "CAT" concatenated with a 4 digit number;
DATA FILEA (RENAME=(CACSMPL=START SERIAL=LABEL));
  SET UNIQUE;
  SERIAL+1;
  LENGTH FMTNAME $7 DUMNAME $7;
  FMTNAME='CACLOOK';
  DUMNAME= 'CAT' || PUT(CACSMPL, Z4.);
RUN;

PROC PRINT DATA=FILEA;
  TITLE2 '1 record per catchment area (use this file to create a format)';
RUN;

* create a format statement to be used to create CATINDX;
PROC FORMAT CNTLIN=FILEA; RUN;

* create an include file for a complete set of catchment areas.
* Write out to a file (CDUMFILE.INC) of the catchment dummy variables;
DATA _NULL_;
  SET FILEA END=EOF;
  FILE 'CDUMFILE.INC';
  IF _N_ = 1 THEN DO;
    PUT @10 "ARRAY CATDUMS(*) 4";
  END;
  PUT @15 DUMNAME $7.;

  IF EOF THEN PUT @10 " ";
RUN;

*****
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
* subsets. Create the region dummies. Recode region 7 to region 8.
*****;
DATA ENTIRE;
  SET ENTIRE;
  LENGTH DEFAULT = 4;
  IF FIELDAGE NE " " THEN DO; /*MJS 01/26/04*/
    AGE1824=0;
    AGE2534=0;
    AGE3544=0;
    AGE4554=0;
    AGE5564=0;
    AGE6574=0;
    AGE75UP=0;
    IF ( '018' <= FIELDAGE <= '024' ) THEN AGE1824=1; /*MJS 01/26/04*/
    ELSE IF ( '025' <= FIELDAGE <= '034' ) THEN AGE2534=1;
    ELSE IF ( '035' <= FIELDAGE <= '044' ) THEN AGE3544=1;
    ELSE IF ( '045' <= FIELDAGE <= '054' ) THEN AGE4554=1;
    ELSE IF ( '055' <= FIELDAGE <= '064' ) THEN AGE5564=1;
    ELSE IF ( '065' <= FIELDAGE <= '074' ) THEN AGE6574=1;
    ELSE IF ( FIELDAGE > '074' ) THEN AGE75UP=1;
  END;

*****
* Create the FEMALE dummy variable.

```

```

*****;
IF XSEXA = 2 THEN
  FEMALE = 1;
ELSE
  FEMALE = 0;

*****
* Create the beneficiary group/enrollment group subsets.
*****;

GROUP1 = 0;
GROUP2 = 0;
GROUP3 = 0;
GROUP4 = 0;
GROUP5 = 0;
GROUP6 = 0;
GROUP7 = 0;
GROUP8 = 1;      * EVERYONE;

IF (NXNS_COV IN (1,2,6) AND H10004>=2) THEN GROUP1 = 1;
IF (XENR_PCM IN (1,2,6) AND H10004>=2) THEN GROUP2 = 1;
/* JSO 04/05/2007 conditions to run RC type */
IF "&RCTYPE" = 'ReportCards' AND (XENR_PCM IN (3,7) AND H10004>=2) THEN GROUP3 = 1;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND ((XENR_PCM IN (3,7) AND H10004>=2) OR NXNS_COV
IN (3,9)) THEN GROUP3 = 1;
IF NXNS_COV IN (3,9) THEN GROUP4 = 1; /*JSO 08/24/2006, Deleted 4,5**/*JSO 07/30/2007,
Added 9*/
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN GROUP5 = 1;
/*JSO 07/30/2007, added DBENCAT conditions*/
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN GROUP6 = 1;
/*JSO 07/30/2007, added DBENCAT conditions*/
IF XBNFGRP IN (3,4) THEN GROUP7 = 1;

*****
* Recode variables with Never, Sometimes, Usually and Always:
*   Recode Never & Sometimes (1 & 2) to 1.
*   Recode Usually (3) to 2.
*   Recode Always (4) to 3.
*****;

IF H10007 = 1 THEN R10007 = 1;
ELSE IF H10007 = 2 THEN R10007 = 1;
ELSE IF H10007 = 3 THEN R10007 = 2;
ELSE IF H10007 = 4 THEN R10007 = 3;
ELSE IF H10007 < 0 THEN R10007 = .;

IF H10010 = 1 THEN R10010 = 1;
ELSE IF H10010 = 2 THEN R10010 = 1;
ELSE IF H10010 = 3 THEN R10010 = 2;
ELSE IF H10010 = 4 THEN R10010 = 3;
ELSE IF H10010 < 0 THEN R10010 = .;

IF H10021 = 1 THEN R10021 = 1;
ELSE IF H10021 = 2 THEN R10021 = 1;
ELSE IF H10021 = 3 THEN R10021 = 2;
ELSE IF H10021 = 4 THEN R10021 = 3;
ELSE IF H10021 < 0 THEN R10021 = .;

IF H10022 = 1 THEN R10022 = 1;
ELSE IF H10022 = 2 THEN R10022 = 1;
ELSE IF H10022 = 3 THEN R10022 = 2;
ELSE IF H10022 = 4 THEN R10022 = 3;
ELSE IF H10022 < 0 THEN R10022 = .;

IF H10023 = 1 THEN R10023 = 1;
ELSE IF H10023 = 2 THEN R10023 = 1;
ELSE IF H10023 = 3 THEN R10023 = 2;
ELSE IF H10023 = 4 THEN R10023 = 3;
ELSE IF H10023 < 0 THEN R10023 = .;

IF H10024 = 1 THEN R10024 = 1;
ELSE IF H10024 = 2 THEN R10024 = 1;
ELSE IF H10024 = 3 THEN R10024 = 2;
ELSE IF H10024 = 4 THEN R10024 = 3;
ELSE IF H10024 < 0 THEN R10024 = .;

```

```

IF H10029 = 1 THEN R10029 = 1;
ELSE IF H10029 = 2 THEN R10029 = 1;
ELSE IF H10029 = 3 THEN R10029 = 2;
ELSE IF H10029 = 4 THEN R10029 = 3;
ELSE IF H10029 < 0 THEN R10029 = .;

```

```

IF H10033 = 1 THEN R10033 = 1;
ELSE IF H10033 = 2 THEN R10033 = 1;
ELSE IF H10033 = 3 THEN R10033 = 2;
ELSE IF H10033 = 4 THEN R10033 = 3;
ELSE IF H10033 < 0 THEN R10033 = .;

```

```

IF H10040 = 1 THEN R10040 = 1;
ELSE IF H10040 = 2 THEN R10040 = 1;
ELSE IF H10040 = 3 THEN R10040 = 2;
ELSE IF H10040 = 4 THEN R10040 = 3;
ELSE IF H10040 < 0 THEN R10040 = .;

```

```

IF H10041 = 1 THEN R10041 = 1;
ELSE IF H10041 = 2 THEN R10041 = 1;
ELSE IF H10041 = 3 THEN R10041 = 2;
ELSE IF H10041 = 4 THEN R10041 = 3;
ELSE IF H10041 < 0 THEN R10041 = .;

```

```

IF H10045 = 1 THEN R10045 = 1;
ELSE IF H10045 = 2 THEN R10045 = 1;
ELSE IF H10045 = 3 THEN R10045 = 2;
ELSE IF H10045 = 4 THEN R10045 = 3;
ELSE IF H10045 < 0 THEN R10045 = .;

```

```

IF H10046 = 1 THEN R10046 = 1;
ELSE IF H10046 = 2 THEN R10046 = 1;
ELSE IF H10046 = 3 THEN R10046 = 2;
ELSE IF H10046 = 4 THEN R10046 = 3;
ELSE IF H10046 < 0 THEN R10046 = .;

```

```

*****
* Recode variables to one missing condition ".".
* This also renames all the "H0xxxx" to "R0xxxx".
*****;
R10027 = H10027; IF R10027 < 0 THEN R10027 = .;
R10031 = H10031; IF R10031 < 0 THEN R10031 = .;
R10018 = H10018; IF R10018 < 0 THEN R10018 = .;
R10047 = H10047; IF R10047 < 0 THEN R10047 = .;
R10063 = H10063; IF R10063 < 0 THEN R10063 = .;

```

```

*****
* Create region and service affiliation dummies.
*****;
IF XSERVREG NE . THEN DO; /*JSO 08/24/2006, Changed 16 to 24*/
  ARRAY REGDUMS (24) REG01 REG02 REG03 REG04 REG05 REG06
    REG07 REG08 REG09 REG10 REG11 REG12
    REG13 REG14 REG15 REG16 REG17 REG18
    REG19 REG20 REG21 REG22 REG23 REG24;

  DO I = 1 TO 24;
    REGDUMS(I)=0;
  END;
  IF XSERVREG= 1 THEN REG01 =1;
  ELSE IF XSERVREG= 2 THEN REG02 =1;
  ELSE IF XSERVREG= 3 THEN REG03 =1;
  ELSE IF XSERVREG= 4 THEN REG04 =1;
  ELSE IF XSERVREG= 5 THEN REG05 =1;
  ELSE IF XSERVREG= 6 THEN REG06 =1;
  ELSE IF XSERVREG= 7 THEN REG07 =1;
  ELSE IF XSERVREG= 8 THEN REG08 =1;
  ELSE IF XSERVREG= 9 THEN REG09 =1;
  ELSE IF XSERVREG= 10 THEN REG10 =1;
  ELSE IF XSERVREG= 11 THEN REG11 =1;
  ELSE IF XSERVREG= 12 THEN REG12 =1;
  ELSE IF XSERVREG= 13 THEN REG13 =1;
  ELSE IF XSERVREG= 14 THEN REG14 =1;
  ELSE IF XSERVREG= 15 THEN REG15 =1;
  ELSE IF XSERVREG= 16 THEN REG16 =1;

```

```

ELSE IF XSERVREG= 17 THEN REG17 =1;
ELSE IF XSERVREG= 18 THEN REG18 =1;
ELSE IF XSERVREG= 19 THEN REG19 =1;
ELSE IF XSERVREG= 20 THEN REG20 =1;
ELSE IF XSERVREG= 21 THEN REG21 =1;
ELSE IF XSERVREG= 22 THEN REG22 =1;
ELSE IF XSERVREG= 23 THEN REG23 =1;
ELSE IF XSERVREG= 24 THEN REG24 =1;

ARRAY SRVDUMS (4) SRV01 SRV02 SRV03 SRV04;
DO I = 1 TO 4; /*Needed for consumer watch ONLY */
    SRVDUMS(I)=0;
END;
IF XSERVAFF = 1 THEN SRV01 = 1;
ELSE IF XSERVAFF = 2 THEN SRV02 = 1;
ELSE IF XSERVAFF = 3 THEN SRV03 = 1;
ELSE IF XSERVAFF = 4 THEN SRV04 = 1;

END;
*-----;
* Create catchment dummies;
*-----;
%INCLUDE 'CDUMFILE.INC'; * this is array statement;
CATINDX = INPUT(PUT(CACSMPL, CACLOOK.), 3.);
DO I = 1 TO DIM(CATDUMS);
    CATDUMS(I) = 0;
END;
CATDUMS(CATINDX)=1;

RUN;

*****
* Recode item responses to proportional values using CONVERT.SAS.
*****;
%INCLUDE "CONVERT.SAS";

%CONT2(DSN=ENTIRE, NUM=4, Y=R10018 R10047 R10027 R10031);
%CONT3(DSN=ENTIRE, NUM=12, Y=R10007 R10010 R10029 R10033
    R10021 R10022 R10023 R10024
    R10040 R10041 R10045 R10046);

*****
* Sort the main file to reorder it by MPRID.
*****;
PROC SORT DATA=ENTIRE; BY MPRID; RUN;

*****
* Print the contents of ENTIRE dataset.
*****;
PROC CONTENTS DATA=ENTIRE;
    TITLE2 'Contents of ENTIRE';
RUN;

*****
* Print some of the recoded records.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);
    TITLE2 'Print of AGE and SEX dummies';
    VAR MPRID
        FIELDAGE /*MJS 01/26/04*/
        XTNEXREG
        XSERVAFF
        XSERVREG
        USA
        ENBGSMPL
        XSEXA
        STRATUM /*KRR 04/03/2006 Changed from ADJ_CELL*/
        XINS_COV
        NXNS_COV /*JSO 04/26/2007, added for reservists logic*/
        DBENCAT /*JSO 04/26/2007, added for reservists logic*/
        XENR_PCM
        &WGT.
;

```


RUN;

```
*****  
* Print some of the recoded records.  
*****;
```

```
PROC PRINT DATA=ENTIRE(OBS=60);  
  TITLE2 'Print of AGE and SEX dummies';  
  VAR FIELDAGE /*MJS 01/26/04*/  
    AGE1824  
    AGE2534  
    AGE3544  
    AGE4554  
    AGE5564  
    AGE6574  
    AGE75UP  
  
    XSEXA  
    FEMALE  
  
    ENBGSMPL  
    XINS_COV  
    NXNS_COV  
    XENR_PCM  
    XBNFGRP  
    GROUP1  
    GROUP2  
    GROUP3  
    GROUP4  
    GROUP5  
    GROUP6  
    GROUP7  
  ;
```

RUN;

```
PROC PRINT DATA=ENTIRE(OBS=60);  
  TITLE2 'Print of recoded question variables';  
  VAR H10007 R10007  
    H10010 R10010  
    H10021 R10021  
    H10022 R10022  
    H10023 R10023  
    H10024 R10024  
    H10029 R10029  
    H10033 R10033  
    H10040 R10040  
    H10041 R10041  
    H10045 R10045  
    H10046 R10046  
    H10018 R10018  
    H10027 R10027  
    H10031 R10031  
    H10047 R10047  
    H10063 R10063  
  ;
```

RUN;

```
/*JSO 08/24/2006, Changed 16 to 24*/  
PROC PRINT DATA=ENTIRE(OBS=60);  
  TITLE2 'Print of recoded REGION variables';  
  VAR XSERVREG  
    REG01  
    REG02  
    REG03  
    REG04  
    REG05  
    REG06  
    REG07  
    REG08  
    REG09  
    REG10  
    REG11  
    REG12  
    REG13
```

```

REG14
REG15
REG16
REG17
REG18
REG19
REG20
REG21
REG22
REG23
REG24;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded service affiliation variables';
  VAR XSERVREG
      XSERVAFF
      XOCONUS /*JSO 08/24/2006, Changed Overseas Regions*/
      SRV01
      SRV02
      SRV03
      SRV04
  ;
RUN;
proc freq data=entire;
table xservreg*cacsmpl/noprint out=temp;
proc sort; by cacsmpl count;
data out.xservind(keep=cacsmpl xservind);
set temp; by cacsmpl;
if last.cacsmpl;
if xservreg in (13,14,15,16) then xservreg=13;
if xservreg in (17,18,19,20) then xservreg=14;
if xservreg in (21,22,23,24) then xservreg=15;

rename xservreg=xservind;
proc sort data=entire;
by cacsmpl;
data entire;
merge entire out.xservind; by cacsmpl;

*****
* Create the 7 subgroups for processing by STEP2.SAS.
*****;
DATA OUT.GROUP1
      OUT.GROUP2
      OUT.GROUP3
      OUT.GROUP4
      OUT.GROUP5
      OUT.GROUP6
      OUT.GROUP7
      OUT.GROUP8;

  SET ENTIRE;

DROP
  H10007
  H10010
  H10021
  H10022
  H10023
  H10024
  H10029
  H10033
  H10040
  H10041
  H10045
  H10046
  H10018
  H10027
  H10031
  H10047
  H10063
  ;

```

```
IF GROUP1 = 1 THEN OUTPUT OUT.GROUP1;  
IF GROUP2 = 1 THEN OUTPUT OUT.GROUP2;  
IF GROUP3 = 1 THEN OUTPUT OUT.GROUP3;  
IF GROUP4 = 1 THEN OUTPUT OUT.GROUP4;  
IF GROUP5 = 1 THEN OUTPUT OUT.GROUP5;  
IF GROUP6 = 1 THEN OUTPUT OUT.GROUP6;  
IF GROUP7 = 1 THEN OUTPUT OUT.GROUP7;  
OUTPUT OUT.GROUP8;  
  
RUN;
```

G.9.B REPORTCARDS\CAHPS_ADULT2010\CONVERT.SAS - CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES.

```

*****
*
* PROGRAM:   CONVERT.SAS
* TASK:     DOD HEALTH CARE SURVEY ANALYSIS (8687-330)
* PURPOSE:  CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES FOR CONSISTENCY
*           WITH THE TOPS SURVEY.
* WRITTEN:  October 2000 BY ERIC SCHONE
*
* MODIFIED: October 2000 BY KEITH RATHBUN, Added PROLOG.  Also, added DSN
*           to argument lists.
*
* INPUTS:   1) User-specified SAS Dataset
*
* OUTPUTS:  1) User-specified SAS Dataset with recoded values
*
* NOTES:
*
* 1) Arguments for the CONT1-CONT3 macros are as follows:
*   a) SAS dataset name (dsn)
*   b) Number of variables to be converted (num)
*   c) List of variables to be converted (y)
* 2) These macros assume that the response items have already been
*   converted/recoded to CAHPS scales.
*
*****
* CONT1 - Convert big problem, small problem, not a problem questions to
*         proportional values.
*****;
%macro cont1(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i = 1 to &num;
    if vars(i) ne . and vars(i) ne 3 then vars(i) = 0;
    if vars(i) = 3 then vars(i) = 1;
  end;
run;
%mend cont1;

*****
* CONT2 - Convert rating questions to proportional values.
*****;
%macro cont2(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to &num;
    if vars(i) ne . and vars(i) < 8 then vars(i) = 0;
    if vars(i) in (8,9,10) then vars(i) = 1;
  end;
run;
%mend cont2;

*****
* CONT3 - Convert Never, Sometimes, Usually, Always questions to
*         proportional values.
*****;
%macro cont3(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to &num;
    if vars(i) ne . and vars(i) >= 2 then vars(i) = 2;
    vars(i) = vars(i) - 1;
  end;
run;
%mend cont3;

```

G.9.C REPORTCARDS\CAHPS_ADULT2010\STEP2.SAS - CALCULATE CAHPS ADJUSTED SCORES - ANNUAL.

```

/*****
/* Project: DoD - 2004 Adult Report Cards
/* Program: STEP2Q.SAS
/* Purpose: Draft Adult Report Card
/* Requires program STEP1.SAS to have been run
/* Programming specifications for adult report card
/* The adult report card contains a large number of
/* risk-adjusted scores. Some scores are
/* calculated from responses to individual survey questions.
/* Composite scores are calculated by
/* combining scores from individual questions.
/* The scores then are compared with external civilian
/* benchmarks. The programming tasks involved in building
/* the report card are:
/*     1) preparing data for analyses
/*     2) estimating risk adjustment models
/*     3) calculating risk-adjusted values and variances
/*     4) calculating benchmarks
/*     5) comparing risk-adjusted values to benchmarks
/*        and hypothesis testing
/*
/* Modified: 1) December 2001 By Mike Scott: Updated parameters for 2000 survey,
/*           added V612 to support SUDAAN with Version 8 SAS, changed STRATUM to
/*           TMP_CELL, and changed INTERCEP to INTERCEPT to support Version 8 SAS.
/*           2) January 2003 By Keith Rathbun: Added output files for SKELCAT and
/*           SKELREG (No longer permanent datasets... only needed by this program).
/*           3) January 2004 By Mike Scott: Updated for 2003 survey.
/*           4) February 2005 By Regina Gramss: Updated for 2004 survey
/*           changed codes to use XSERVREG for region. Changed field
/*           names to use macro for year change.
/*           Adjustments were made By Eric Schone because of catchment
/*           areas lining up to multiple regions.
/*           5) January 2006 By Regina Gramss: Updated for 2005 survey.
/*           6) October 2006 By Keith Rathbun: Updated to accomodate the Overseas
/*           reporting updates done by Justin Oh in the quarterly version.
/*           7) November 9, 2007 By Keith Rathbun: Updated parameters for
/*           the 2007 survey.
/*           8) October 28, 2008 By Mike Rudacille: Updated parameters for
/*           the 2008 survey.
/*           9) October 6, 2009 by Emma Ernst: Updated paramters for 2009 survey
/*           10) September 7, 2010 By Mike Rudacille: Updated parameters for
/*           the 2010 survey.
/*
/* SUBGROUPS
/*
/* -----
/*     Seven subgroups           Definitions                               Reg or Catch   Macro
/* -----
/* 1. Prime enrollees           XINS_COV IN(1,2,6) AND H08007>=4   Catchment     SCORE1
/* 2. Enrollees w/mlm PCM       XENR_PCM IN(1,2,6) AND H08007>=4   Catchment     SCORE1
/* 3. Enrollees w/civ PCM       XENR_PCM = 3 AND H08007>=4         Region        SCORE2
/* 4. Nonenrollees             XINS_COV IN(3)                       Region        SCORE2
/* 5. Active duty               XBNFGRP=1                             Catchment     SCORE1
/* 6. Active duty dependents    XBNFGRP=2                             Region        SCORE2
/* 7. Retirees and dependents   XBNFGRP IN (3,4)                     Region        SCORE2
/*
/* PREV PGM: STEP1.SAS
/* NEXT PGM: COMPOSIT.SAS
/*****
OPTIONS NOCENTER LS=132 PS=78 SOURCE NOOVP STIMER COMPRESS=YES;
LIBNAME IN1 "DATA";
LIBNAME OUT "DATA";
LIBNAME OUT2 "DATA\ADULTTHATFILES";

*-----;
*-      set the parameters here      -;
*-----;
* set the number of Dependent variables to process;
* One does not need to start at 1, but the max must be >= min;
%LET MIN_VAR = 1;
%LET MAX_VAR = 16;

```

```

* set the number of subgroups to process;
%LET MIN_GRP = 1;
%LET MAX_GRP = 8;

*****
* These are expected to remain the same for a particular dependent
* variable run.
*****;
%LET WGT      = CFWT;
%LET IND_VAR1 = R10063;
%LET IND_VAR2 = ; * FEMALE;
%LET IND_VAR3 = ; * SREDHIGH;
%LET DEBUGFLG = 0; * Set to 1 if you want extra printout;

%LET TITL1 = Prime Enrollees;
%LET TITL2 = Enrollees w/military PCM;
%LET TITL3 = Enrollees w/civilian PCM;
%LET TITL4 = Nonenrollees;
%LET TITL5 = Active Duty;
%LET TITL6 = Active Duty Dependents;
%LET TITL7 = Retirees and Dependents;
%LET TITL8 = All Beneficiaries;

*****
* GETTING NEEDED CARE.
*****;
/*10/6/09 ERE not using 2008 version of question 11 and 29 anymore*/
%LET DEPVAR1 = R10029;
%LET DEPVAR2 = R10033;

*****
* GETTING NEEDED CARE QUICKLY.
*****;
/*10/6/09 ERE not using 2008 version of question 17 and 30 anymore*/
%LET DEPVAR3 = R10010;
%LET DEPVAR4 = R10007;

*****
* HOW WELL DOCTORS COMMUNICATE.
*****;
%LET DEPVAR5= R10021;
%LET DEPVAR6= R10022;
%LET DEPVAR7= R10023;
%LET DEPVAR8= R10024;

*****
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
/*10/6/09 ERE this section is not in the 2009 v4 questionnaire*/

*****
* CUSTOMER SERVICE.
*****;
%LET DEPVAR9 = R10040;
%LET DEPVAR10 = R10041;

*****
* CLAIMS PROCESSING.
*****;
%LET DEPVAR11 = R10045;
%LET DEPVAR12 = R10046;

*****
* RATING ALL HEALTH CARE: 0 - 10.
*****;
%LET DEPVAR13 = R10018;

*****
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%LET DEPVAR14 = R10047;

```

```

*****
* RATING OF PERSONAL DR: 0 - 10.
*****;
%LET DEPVAR15 = R10027;

*****
* SPECIALITY CARE: 0 - 10.
*****;
%LET DEPVAR16 = R10031;

proc freq data=in1.group8; /*MJS 01/23/04 Changed data set*/
  tables cacsmp1 /missing list out=skelcat(keep=cacsmp1);
run;
data skelcat;
  set skelcat;
  if cacsmp1 = " " then delete;
run;

/*RSG 02/2005 - put in hard code for skelreg vs. doing freq on data
since xservreg is not in data and must be coded*/

DATA SKELEREG;
  INPUT XSERVREG;
  DATALINES;
  1
  2
  3
  4
  5
  6
  7
  8
  9
  10
  11
  12
  13
  14
  15
  16
  17
  18
  19
  20
  21
  22
  23
  24
;
RUN;

%MACRO SCORE1;
*****;
* use this macro for groups 1, 2 & 5 *;
* catchment variables are to be used *;
*****;
%PUT *****;
%PUT STARTING MACRO SCORE1;
%PUT "GROUP = " GROUP&IGRP;
%PUT "TITLE = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR = " &&DEPVAR&IVAR;
%PUT "IND_VAR1 = " &IND_VAR1;
%PUT "IND_VAR2 = " &IND_VAR2;
%PUT "IND_VAR3 = " &IND_VAR3;
%PUT "WGT = " &WGT;
%PUT *****;

*-----;
* If the current group is 1 use the skeleton files;
* else used the previous groups output file;
* The mrgfile is added to by each subgroup;
*-----;

```

```

%LET CMRGFILE = OUT.C_&&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET CMRGFILE = SKELCAT;

* run regression using the catchment level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
  TITLE2 "Regression Model on catchment areas";
  TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  WEIGHT &WGT;
  %INCLUDE 'REGRSCAT.INC';
  OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP_CELL
    PRED&IGRP RESID&IGRP CACSMPL XSERVREG &&DEPVAR&IVAR)
    P = PRED&IGRP
    R = RESID&IGRP;
RUN;

* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
    TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR: file with PRED&IGRP and RESID&IGRP";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    VAR MPRID XSERVREG CACSMPL &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;
  RUN;

  PROC PRINT DATA=BETAS;
    TITLE2 "BETAS: file with coefficients";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%END;

*-----;
*-- get the standard err/variance;
*-----;
%LET DEP = &&DEPVAR&IVAR;
%C_SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);

* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
  SET MEANFILE;      * CREATED IN THE MACRO MAKE_DAT;
  IF _N_ = 1 THEN SET BETAS(DROP = _TYPE_);
  %INCLUDE 'RISKARRY.INC';
  %INCLUDE 'RISKMEAN.INC';
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN COEFFS(I) = 0;
    IF MEANS(I) = . THEN MEANS(I) = 0;
    ADJUST + ( COEFFS(I) * MEANS(I) );
  END;
  ADJUST = ADJUST + INTERCEPT;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=ADJUST;
    TITLE2 'Print of ADJUST';
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%END;

* add the catchment coefficients to the adjusted value from above;
* output one record per catchment area with the catchment;
* level adjusted scores;
DATA COEFFCAC(KEEP=CATAREA NEWADJUST);
  SET ADJUST;
  %INCLUDE 'CATARRAY.INC';
  LENGTH NAME $8;
  DO I=1 TO DIM(CATRHS);

```



```

CALL VNAME(CATRHS(I),NAME);
CATAREA=INPUT(SUBSTR(NAME,4,4),4.);
IF CATRHS(I) = . THEN CATRHS(I) = 0;
NEWADJST=ADJUST + CATRHS(I);
OUTPUT;
END;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
PROC PRINT DATA=COEFFCAC;
TITLE2 'COEFFCAC: Catchment Area Adjusted Scores';
TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;
%END;

* sum of wgts per catchment areas;
* attach the region id to the output file so;
* so we can create wgts for each region later;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
ID XSERVIND ; * important ;
CLASS CACSMPL ;
VAR &WGT;
OUTPUT OUT=CAT_WGTS(RENAME=(CACSMPL=CATAREA)) N=CATCNT SUM=CATWGT;
RUN;

* merge the Coeffcac file with the catchment;
* adjusted scores to the catchment level weight;
* merge by the catchment area. creates a;
* catchment level file with catchment weights;
DATA COEFFCAC;
MERGE COEFFCAC(IN=IN1)
CAT_WGTS(IN=IN2 KEEP=CATAREA XSERVIND CATWGT CATCNT);
BY CATAREA;
IF IN1;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
PROC PRINT DATA=CAT_WGTS(OBS=70);
TITLE2 'CAT_WGTS: Catchment Area Sum of WGTS';
TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;

PROC PRINT DATA=COEFFCAC(OBS=70);
TITLE2 'Catchment Area Adjusted Scores - with sum of wgts and region';
TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;
%END;

* merge the previous groups catchment results (if any);
* with the catchment level std err and the catchment;
* level results from the current groups and dependent var;
%PUT "&CMRGFILE: " &CMRGFILE;
DATA OUT.C_&&DEPVAR&IVAR(RENAME=(NEWADJST=ADJ&IGRP));
MERGE &CMRGFILE(IN=INS)
C&IGRP&&DEPVAR&IVAR
COEFFCAC(RENAME=(CATAREA=CACSMPL CATWGT=CATWGT&IGRP CATCNT=CATCNT&IGRP));
BY CACSMPL;
DEPENDNT = "&&DEPVAR&IVAR";
IF INS;
RUN;

PROC PRINT DATA=OUT.C_&&DEPVAR&IVAR;
TITLE2 "Print of Catchment variables in C_&&DEPVAR&IVAR";
TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;

```

```

%MEND SCORE1;

%MACRO SCORE2;
*****;
* use this macro for groups 3, 4, 6, 7;
* region variables are to be used ;
*****;
%PUT *****;
%PUT STARTING MACRO SCORE2;
%PUT "GROUP = " GROUP&IGRP;
%PUT "TITLE = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR = " &&DEPVAR&IVAR;
%PUT "IND_VAR1 = " &IND_VAR1;
%PUT "IND_VAR2 = " &IND_VAR2;
%PUT "IND_VAR3 = " &IND_VAR3;
%PUT "WGT = " &WGT;
%PUT *****;

%LET RMRGFILE = OUT.R_&&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET RMRGFILE = SKELREG;

* run regression using the region level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
  TITLE2 "Regression Model for GROUP&igrp for regions";
  TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  WEIGHT &WGT;
  %INCLUDE 'REGRSREG.INC';
  OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP_CELL
    PRED&IGRP RESID&IGRP CACSMPL XSERVREG &&DEPVAR&IVAR)
    P = PRED&IGRP
    R = RESID&IGRP;

RUN;

* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
    TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR: file with predicted values and the RESID&IGRP";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    VAR MPRID XSERVREG CACSMPL &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;

  RUN;

  PROC PRINT DATA=BETAS;
    TITLE2 "BETAS: file with coefficients";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";

  RUN;
%END;

*-----;
*----- get the standard err/variance -----;
*-----;
%LET DEP = &&DEPVAR&IVAR;
%R_SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);

* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
  SET MEANFILE;
  IF _N_ = 1 THEN SET BETAS(DROP = _TYPE_);
  %INCLUDE 'RISKARRY.INC';
  %INCLUDE 'RISKMEAN.INC';
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN COEFFS(I) = 0;
    IF MEANS(I) = . THEN MEANS(I) = 0;
    ADJUST + ( COEFFS(I) * MEANS(I) );
  END;

```

```

        END;
        ADJUST = ADJUST + INTERCEPT;
RUN;

* add the region coefficients to the adjusted value from above;
* output one record per region with the region;
* level adjusted scores;
DATA COEFFREG(KEEP=XSERVREG NEWADJST);
    SET ADJUST;
    %INCLUDE 'REGARRAY.INC';
    LENGTH NAME $8;
    DO I=1 TO DIM(REGRHS);
        CALL VNAME(REGRHS(I),NAME);
        XSERVREG=INPUT(SUBSTR(NAME,4,2),2.);
        IF REGRHS(I) = . THEN REGRHS(I) = 0;
        NEWADJST=ADJUST + REGRHS(I);
        OUTPUT;
    END;
RUN;

* sum of wgts for each region;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
    CLASS XSERVREG;
    VAR    &WGT;
    OUTPUT OUT=REG_WGTS (DROP = _TYPE_ _FREQ_) N=REGCNT SUM=REGWGT;
RUN;

* merge the COEFFREG file with the region;
* adjusted scores to the region level total weight;
* merge by the region.  Creates a region level;
* file with the total sample weight of the region;
DATA COEFFREG;
    MERGE COEFFREG(IN=IN1)
          REG_WGTS(IN=IN2  KEEP=XSERVREG REGCNT REGWGT);
    BY XSERVREG;
    IF IN1;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=MEANFILE;
        TITLE2 'Print of MEANFILE';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=ADJUST;
        TITLE2 'Print of ADJUST';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=COEFFREG;
        TITLE2 'Print of COEFFREG: Region Adjusted Scores';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=REG_WGTS;
        TITLE2 'Print of REG_WGTS: Region Area Sum of WGTS';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=COEFFREG;
        TITLE2 'Print of COEFFREG: Regions Adjusted Scores - with sum of wgts and region';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

* Calculate region level adjusted scores from the;
* region level adjusted scores in COEFFREG;
/*PROC MEANS DATA=COEFFREG NWAY NOPRINT;
    WEIGHT REGWGT;

```

```

CLASS XSERVREG;
VAR NEWADJUST;
OUTPUT OUT=REGFILE1 (DROP = _TYPE_ _FREQ_) MEAN=ADJ&IGRP;
RUN;
*/

%IF &DEBUGFLG > 0 %THEN %DO;
PROC PRINT DATA=REGFILE1;
TITLE2 'Print of REGFILE1: Region Scores';
TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
RUN;
%END;

* merge the previous groups regional results (if any);
* with the region level std err and the region;
* level results from the current group/dependent var;
%PUT "&RMRGFILE: " &RMRGFILE;
DATA OUT.R_&&DEPVAR&IVAR;
MERGE &RMRGFILE(IN=INS)
      R&IGRP&&DEPVAR&IVAR /*KRR - removed perm dataset ref to OUT2 */
      coeffreg(rename=(newadjst=adj&igrp));
BY XSERVREG;
RENAME REGCNT = REGCNT&IGRP;
RENAME REGWGT = REGWGT&IGRP;
DEPENDNT = "&&DEPVAR&IVAR";
IF INS;
RUN;

PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
TITLE2 "Print of REGION variables in &&DEPVAR&IVAR";
TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
RUN;

%MEND SCORE2;

*
;
%MACRO MAKE_INC;
*****;
* creates include files for later Procs;
* Needs to be run each time. Called ;
* in the outer (beneficiary loop). ;
* I chose this method because it was ;
* clearer(to me at least). ;
* This macro needs to be run once per ;
* Dep var per subgroup. ;
*****;

* Drop records where the dependent var is missing;
* Drop records with missing catchment or region values;

DATA GROUP&IGRP;
SET IN1.GROUP&IGRP;
IF &&DEPVAR&IVAR NOT = .;

RUN;

DATA _NULL_;
SET GROUP&IGRP END = EOF;
IF &&DEPVAR&IVAR NOT = .;

ARRAY AGECONT(7) 8 aCNT1 - aCNT7;
RETAIN AGECONT 0;
RETAIN CNT 0;
ARRAY AGENAM(7) $8 AGENAM1 - AGENAM7;
ARRAY AGENAMX(7) $8 AGENAMX1 - AGENAMX7;
RETAIN AGENAM;
RETAIN AGENAMX;

```

```

ARRAY CATCNT(9998) 8 CCNT0001 - CCNT9998;
ARRAY REGCNT(24) 8 REGCNT01 - REGCNT24; *KRR 10/24/2006 - Changed from 16 to 24;
RETAIN CATCNT 0;
RETAIN REGCNT 0;

* create a name array for the age dummies;
IF _N_ = 1 THEN DO;
  AGENAM(1) = "AGE1824";
  AGENAM(2) = "AGE2534";
  AGENAM(3) = "AGE3544";
  AGENAM(4) = "AGE4554";
  AGENAM(5) = "AGE5564";
  AGENAM(6) = "AGE6574";
  AGENAM(7) = "AGE75UP";
END;

* total record count;
CNT + 1;

* count records in each age group;
* we will use only age groups with more;
* than 2 obs;
IF AGE1824 = 1 THEN AGEcnt(1) + 1;
IF AGE2534 = 1 THEN AGEcnt(2) + 1;
IF AGE3544 = 1 THEN AGEcnt(3) + 1;
IF AGE4554 = 1 THEN AGEcnt(4) + 1;
IF AGE5564 = 1 THEN AGEcnt(5) + 1;
IF AGE6574 = 1 THEN AGEcnt(6) + 1;
IF AGE75UP = 1 THEN AGEcnt(7) + 1;

* count records in each catchment group;
* we will only use catchment areas ;
* with more than than 2 obs;
* I am using the catchment area as the subscript;
* to make the code simpler and more readable;
IF CACSMPL >= 1 AND CACSMPL <= 9998 THEN DO;
  CATCNT(CACSMPL) = CATCNT(CACSMPL) + 1;
END;

* count records in each REGION group;
* we will only use REGIONS ;
* with more than than 2 obs;
* I am using the region value as the subscript;
* to make the code simpler and more readable;
IF XSERVREG >= 1 AND XSERVREG <=24 THEN DO; *KRR 10/24/2006 - Changed from 16 to 24;
  REGCNT(XSERVREG) = REGCNT(XSERVREG) + 1;
END;

IF EOF THEN GOTO ENDFILE;
RETURN;

ENDFILE:
* create a title common to all procs in the current group;
TITLE " &&DEPVAR&IVAR &&TITL&IGRP";

* display counts in the log;
%IF &DEBUGFLG > 0 %THEN %DO;
  PUT ' ';
  PUT 'AT EOF: ';
  PUT "TOTAL CNT = " CNT;
  PUT AGENAM(1) " " AGEcnt(1)=;
  PUT AGENAM(2) " " AGEcnt(2)=;
  PUT AGENAM(3) " " AGEcnt(3)=;
  PUT AGENAM(4) " " AGEcnt(4)=;
  PUT AGENAM(5) " " AGEcnt(5)=;
  PUT AGENAM(6) " " AGEcnt(6)=;
  PUT AGENAM(7) " " AGEcnt(7)=;
  PUT " ";

  DO I = 1 TO 24; *KRR 10/24/2006 - Changed from 16 to 24;
    IF(REGCNT(I) > 0) THEN DO;
      PUT 'REG' I Z2. REGCNT(I) 6.;
    END;
  END;

```

```

END;
PUT ' ';

DO I = 1 TO 9998;
  IF(CATCNT(I) > 0) THEN DO;
    PUT 'CAT' I Z4. CATCNT(I) 6.;
  END;
END;
PUT ' ';
%END;    *** of debug test;

*-----;
* create an include file for the regression model;
* it is inconvenient, but SAS requires that the;
* include file start after a complete statement;
* i.e. after a semicolon;
* This include is for the regression using catchment areas;
FILE 'REGRSCAT.INC';
PUT @6  "MODEL &&DEPVAR&IVAR = ";
IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */
IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */

CNT2 = 0;
* setup an array of those age groups that have > 1 obs;
DO I = 1 TO 7;
  IF AGECNT(I) > 1 THEN DO;
    CNT2 +1;
    AGENAMX(CNT2) = AGENAM(I);
  END;
END;
* drop the last category to create;
* an omitted category which is required;
* to solve the regression properly;
DO I = 1 TO CNT2-1;
  PUT @12 AGENAMX(I);
END;

* ditto for the catchment areas with > 0 obs;
* in this case we drop the last non-zero cnt;
* this is not consistent with Portias code which;
* unintentionally omitted several catchment area codes;
LAST_REC = 0;
DO I = 1 TO 9998;
  IF CATCNT(I) > 0 THEN LAST_REC = I;
END;

* skip the last cacsmp1 with > 1 obs;
DO I = 1 TO LAST_REC-1;
  IF CATCNT(I) > 0 THEN DO;
    PUT @12 'CAT' I Z4.;
  END;
END;
PUT @11 ' ';

*-----;
* This include is for the regression using regions;
* in this case we drop the last REGION;
FILE 'REGSRREG.INC';
PUT @6  "MODEL &&DEPVAR&IVAR = ";
IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */
IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */

CNT2 = 0;
* setup an array of those age groups that have > 1 obs;
DO I = 1 TO 7;
  IF AGECNT(I) > 1 THEN DO;
    CNT2 +1;
    AGENAMX(CNT2) = AGENAM(I);
  END;
END;

```

```

END;

* now drop the last category to create;
* an omitted category which is required;
* to solve the regression properly;
DO I = 1 TO CNT2-1;
  PUT @12 AGENAMX(I);
END;

* ditto for the catchment areas with > 0 obs;
* in this case we drop the the first USABLE category;
* this is not consistent with the catchment area code;
* but this is the method that Portia used;
FIRST = 0;          *KRR 10/24/2006 - Changed from 16 to 24;
DO I = 1 TO 24;    * skip the 1st region with 1+ obs;
  IF REGCNT(I) > 0 THEN DO;
    IF FIRST = 1 THEN PUT @12 'REG' I Z2.;
    FIRST = 1;
  END;
END;
PUT @11 ' ';

*-----;
* now create the complete var statement;
* for the Proc MEANS used to replace the;
* independent variables missing values;
* we assume the age groups will always be used;
* These are also called the RISK FACTORS;
FILE 'RISKVARS.INC';
PUT @10 "VAR";
DO I = 1 TO CNT2;
  PUT @12 AGENAMX(I);
END;

* not all the other dependent variables will be used;
* only write them out if they are not null;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR1";
END;

IF "&IND_VAR2" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR2";
END;

IF "&IND_VAR3" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR3";
END;
PUT @11 ' ';

*-----;
* create an ARRAY statement of the desired risk factors;
* called adjusters in the specs and in the code;
FILE 'RISKARRY.INC';
PUT @10 "ARRAY COEFFS(*) $8";
DO I = 1 TO CNT2;
  PUT @12 AGENAMX(I);
END;

CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR1";
END;

IF "&IND_VAR2" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR2";
END;

```

```

IF "&IND_VAR3" NE "" THEN DO;
  CNT3 + 1;
  PUT @12 "&IND_VAR3";
END;
PUT @11 ' ';

*-----;
* create an ARRAY of mean names for the output;
* from a proc MEANS of the Risk Factors in RISKARRY;
FILE 'RISKMEAN.INC';
IND_CNT = CNT2 + CNT3;
PUT @6 "ARRAY MEANS(*) $8";
DO I = 1 TO IND_CNT;
  PUT @12 "MEAN" I Z2.;
END;
PUT @11 ' ';

* -----;
* create the equivalent of the following statement;
* OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN=MEAN1-MEAN&MEAN_CNT;
FILE 'MEANFILE.INC';
PUT @6 "OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = ";
DO I = 1 TO IND_CNT;
  PUT @12 "MEAN" I Z2.;
END;
PUT @11 ' ';

*-----;
* create a catchment area array for all catchment areas;
* with 1+ obs.
* the missing value = 9999 was dropped in STEP1; ** rlc 4/29/00;
FILE 'CATARRAY.INC';
PUT @10 "ARRAY CATRHS(*) $8";
DO I = 1 TO 9998;          *** rlc 4/29/00 changed "9999" to "9998";
  IF CATCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
    PUT @16 'CAT' I Z4.;
  END;
END;
PUT @11 ' ';

*-----;
* create a region area array;
* with at least ONE obs;
FILE 'REGARRAY.INC';
PUT @10 "ARRAY REGRHS(*) $8";
DO I = 1 TO 24; *KRR 10/24/2006 - Changed from 16 to 24;
  IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
    PUT @16 'REG' I Z2.;
  END;
END;
PUT @11 ' ';
file print;
RUN;

* Create the means of the adjuster variables;
* They will be used to replace missing adjuster variables;
* calculate weighted means;
PROC MEANS DATA=group&igrp;

  WEIGHT &WGT;
  %INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN;

DATA GROUP&IGRP;
SET GROUP&IGRP;
IF _N_ = 1 THEN SET MEANFILE;
%INCLUDE 'RISKARRY.INC';
%INCLUDE 'RISKMEAN.INC';
DO I = 1 TO DIM(COEFFS);
  IF COEFFS(I) = . THEN DO;
    COEFFS(I) = MEANS(I);
  END;
END;

```



```

        END;
    END;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=MEANFILE;
        TITLE2 "Print of MEANFILE for Risk Adjuster variables";
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

%MEND MAKE_INC;

*
;
%MACRO R_SUDAAN(INFILE);
*****;
* use this macro to create standard err (variances);
* FOR: REGIONS ;
*****;
%PUT *****;
%PUT STARTING MACRO R_SUDAAN (REGIONS);
%PUT *****;

DATA &INFILE;
    SET &INFILE;
    IF XSERVREG > 0;
RUN;

* Sort data by TMP_CELL;
PROC SORT DATA=&INFILE;
    BY TMP_CELL;
RUN;

%IF &DEBUGFLG > 5 %THEN %DO;
    PROC PRINT DATA=&INFILE(OBS=5);
        TITLE2 'Print of the input file to SUDAAN (REGION)';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

* Calculate values for regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
    WEIGHT &WGT;
    SETENV DECWIDTH=4;
    NEST TMP_CELL / missunit;
    VAR RESID&IGRP;
    TABLES XSERVREG;
    SUBGROUP XSERVREG;
    LEVELS 24; *KRR 10/24/2006 - Changed from 16 to 24;
    OUTPUT SEMEAN
        / TABLECELL=DEFAULT REPLACE
        FILENAME=RS&DEP;
    RUN;

DATA R&IGRP&&DEPVAR&IVAR;
    SET RS&DEP;
    KEEP XSERVREG SEMEAN;
    IF SEMEAN NE .;
    RENAME SEMEAN = SEMEAN&IGRP;
    RUN;

PROC PRINT DATA=R&IGRP&&DEPVAR&IVAR;
    TITLE2 "Print REGION DESCRIPT DATA=R&IGRP&&DEPVAR&IVAR";

```

```

        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

%MEND  R_SUDAAN;

%MACRO C_SUDAAN(INFILE);
*****;
* use this macro to create standard err (variances);
* FOR: CATCHMENT AREAS ;
*****;
%PUT *****;
%PUT STARTING MACRO C_SUDAAN (CATCHMENT);
%PUT *****;

DATA &INFILE;
    SET &INFILE;
    IF CACSMPL > 0;
RUN;

* Sort data by TMP_CELL;
PROC SORT DATA=&INFILE;
    BY TMP_CELL;
RUN;

%IF &DEBUGFLG > 5 %THEN %DO;
    PROC PRINT DATA=&INFILE(OBS=5);
        TITLE2 'Print of the input file to SUDAAN for CATCHMENT';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

* Calculate values for regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
    WEIGHT &WGT;
    SETENV DECWIDTH=4;
    NEST TMP_CELL / missunit;
    VAR RESID&IGRP;
    TABLES CACSMPL;
    SUBGROUP CACSMPL;
    LEVELS 9998;
    OUTPUT SEMEAN
        / TABLECELL=DEFAULT REPLACE
        FILENAME=CS&DEP;
    RUN;

    DATA C&IGRP&&DEPVAR&IVAR;
        SET CS&DEP;
        IF SEMEAN NE .;
        KEEP CACSMPL SEMEAN;
        RENAME SEMEAN = SEMEAN&IGRP;
    RUN;

    PROC PRINT DATA=C&IGRP&&DEPVAR&IVAR;
        TITLE2 "Print CATCHMENT DESCRIPT DATA=C&IGRP&&DEPVAR&IVAR";
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

%MEND  C_SUDAAN;

*
;
%*****;
%* call the macros;
%*****;

%MACRO MAINLOOP(MIN_VAR,MAX_VAR,MIN_GRP,MAX_GRP);
    %* loop over the set of dependent variables;
    %DO IVAR = &MIN_VAR %TO &MAX_VAR;
        %DO IGRP = &MIN_GRP %TO &MAX_GRP;

```

```
%MAKE_INC;
%IF &IGRP = 1 OR &IGRP = 2 OR &IGRP = 5 or &igrp = 8 %THEN %do;
    %SCORE1;
    %SCORE2; %end;
%ELSE
    %SCORE2;
%END;
%END;

%MEND;

%MAINLOOP (&MIN_VAR, &MAX_VAR, &MIN_GRP, &MAX_GRP);
```

G.9.D REPORTCARDS\CAHPS_ADULT2010\REGRSREG.INC - INCLUDE FILE1 IN STEP2.SAS.

```
MODEL R10031 =  
  R10063  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  REG02  
  REG03  
  REG04  
  REG05  
  REG06  
  REG07  
  REG08  
  REG09  
  REG10  
  REG11  
  REG12  
  REG13  
  REG14  
  REG15  
  REG16  
  REG17  
  REG18  
  REG19  
  REG20  
  REG21  
  REG22  
  REG23  
  REG24  
;
```

G.9.E REPORTCARDS\CAHPS_ADULT2010\RISKARRY.INC - INCLUDE FILE2 IN STEP2.SAS.

```
ARRAY COEFFS(*) $8  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R10063  
;
```

G.9.F REPORTCARDS\CAHPS_ADULT2010\RISKMEAN.INC - INCLUDE FILE3 IN STEP2.SAS.

```
ARRAY MEANS ( * ) $8  
  MEAN01  
  MEAN02  
  MEAN03  
  MEAN04  
  MEAN05  
  MEAN06  
;
```

G.9.G REPORTCARDS\CAHPS_ADULT2010\REGARRAY.INC - INCLUDE FILE4 IN STEP2.SAS.

```
ARRAY REGRHS(*) $8  
  REG01  
  REG02  
  REG03  
  REG04  
  REG05  
  REG06  
  REG07  
  REG08  
  REG09  
  REG10  
  REG11  
  REG12  
  REG13  
  REG14  
  REG15  
  REG16  
  REG17  
  REG18  
  REG19  
  REG20  
  REG21  
  REG22  
  REG23  
  REG24  
;
```

G.9.H REPORTCARDS\CAHPS_ADULT2010\RISKVARS.INC - INCLUDE FILE5 IN STEP2.SAS.

```
VAR  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R10063  
;
```


G.9.I REPORTCARDS\CAHPS_ADULT2010\MEANFILE.INC - INCLUDE FILE6 IN STEP2.SAS.

```
OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN =  
  MEAN01  
  MEAN02  
  MEAN03  
  MEAN04  
  MEAN05  
  MEAN06  
;
```

G.9.J REPORTCARDS\CAHPS_ADULT2010\COMPOSIT.SAS - CALCULATE CAHPS COMPOSITE SCORES - ANNUAL.

```

*****
* Project: DoD - Quarterly Adult Report Cards
* Program: COMPOSIT.SAS
* Purpose: Generate Quarterly Adult Report Card composite scores
* Requires: Programs STEP1Q.SAS and STEP2Q.SAS must be run prior
*           to this program.
*
* Modified: 1) 02/27/2001 By Keith Rathbun, Small changes to input DSNs to
*           accommodate the move of ALLSCORE.SAS functionality into the
*           STEP2Q.SAS program.
*           2) 01/08/2002 By Daniele Beahm, Changed versions in libname statements
*           so program can be run with SAS v8 and still produce SAS v612 datasets.
*           3) 04/10/2002 By Mike Scott, Updated variable names for 2002
*           survey.
*           4) 02/04/2004 By Mike Scott, Updated for the 2003 Annual Report.
*           5) 02/2004 By Regina Gramss, Updated for 2004 Annual Report. Added
*           in conditions to avoid exponential of negative numbers. In case
*           of negative trend, error list is printed out - composit.lst file
*           should be evaluated (search for "ERROR") to make sure number of
*           obs is less than 30 for those with negative trend (field: tv).
*           6) 01/2006 By Regina Gramss, updated for 2005.
*           7) 10/2006 By Keith Rathbun, updated for 2006. Use FWRWT.
*           8) 10/6/09 by Emma Ernst, updated for 2009 database. Use annual weights
*           9) 09/07/10 by Mike Rudacille, updated for 2010 database. Use annual weights
*****
OPTIONS NOCENTER NOFMterr LS=132 PS=78 SOURCE SOURCE2 NOOVP COMPRESS=YES;
libname in "data";
libname in2 "data\adulthatfiles";
libname out "data";

%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,QCOUNT=);

DATA _NULL_;
  %IF "&TYPE" = "R" %THEN %DO;
    CALL SYMPUT ('BYVAR','XSERVREG');
  %END; %ELSE
  %IF "&TYPE" = "C" %THEN %DO;
    CALL SYMPUT ('BYVAR','CACSMPL');
  %END;

*****;
* Create a Composite Score ;
*****;
DATA _NULL_;
  FILE 'FILES.INC';
  PUT @6 'SET';
  IF "&VAR1" NE '' THEN PUT @8 "IN.&TYPE._&VAR1";
  IF "&VAR2" NE '' THEN PUT @8 "IN.&TYPE._&VAR2";
  IF "&VAR3" NE '' THEN PUT @8 "IN.&TYPE._&VAR3";
  IF "&VAR4" NE '' THEN PUT @8 "IN.&TYPE._&VAR4";
  PUT @8 ' ';
RUN;

DATA COMPOS&COMPOS;
  LENGTH DEPENDNT $ 8;
  %INCLUDE 'FILES.INC';
  DEPENDNT = "&TYPE.COMPOS&COMPOS";
RUN;

PROC SORT DATA=COMPOS&COMPOS;
  BY &BYVAR;
RUN;

PROC PRINT DATA=COMPOS&COMPOS(OBS=60);
  TITLE "Print of COMPOS&COMPOS after sort";
RUN;

DATA COMPOS&COMPOS;
  SET COMPOS&COMPOS;

```

```

BY &BYVAR;
%IF "&TYPE" = "R" %THEN %DO;
  ARRAY N(*) REGCNT1 - REGCNT8;
  ARRAY W(*) REGWGT1 - REGWGT8;
  ARRAY TN(*) TOTCNT1 - TOTCNT8;
  ARRAY TW(*) TOTWGT1 - TOTWGT8;
%END; %ELSE
%IF "&TYPE" = "C" %THEN %DO;
  ARRAY N(*) CATCNT1 - CATCNT8;
  ARRAY W(*) CATWGT1 - CATWGT8;
  ARRAY TN(*) TOTCNT1 - TOTCNT8;
  ARRAY TW(*) TOTWGT1 - TOTWGT8;
%END;
ARRAY ADJ(*) ADJ1 - ADJ8;
ARRAY TOTADJ(*) TOTADJ1 - TOTADJ8;
ARRAY AVGADJ(*) AVJADJ1 - AVJADJ8;
RETAIN TOTADJ TN TW;
RETAIN AVGADJ;

IF FIRST.&BYVAR THEN DO;
  DO I = 1 TO DIM(TOTADJ);
    TOTADJ(I) = 0; TN(I)=0; TW(I)=0;
  END;
END; DROP I;

PUT ' ';
PUT ' --- STARTING LOOP1: ' &BYVAR=;
DO I = 1 TO DIM(TOTADJ);
  PUT I= ADJ(I)=;
  IF ADJ(I) NE . THEN DO;
    TOTADJ(I) = TOTADJ(I) + ADJ(I);
    TN(I)=TN(I)+N(I);
    TW(I)=TW(I)+W(I);
  END;
  PUT I= ADJ(I)= TOTADJ(I)=;
END;

PUT ' ';
PUT ' --- STARTING LOOP2: ' &BYVAR=;
IF LAST.&BYVAR THEN DO;
  DO I = 1 TO DIM(TOTADJ);
    PUT I= ADJ(I)= TOTADJ(I)= AVGADJ(I)=;
    AVGADJ(I) = TOTADJ(I)/&QCOUNT;
    adj(i)=avgadj(i);
    N(I)=TN(I)/&QCOUNT;
    W(I)=TW(I)/&QCOUNT;
  END;
  OUTPUT;
END;

RUN;

%do i=1 %to 8;
/* Collect Standard Errors and residuals from variables in composite */
%if &type=R|(&i=1|&i=2|&i=5|&i=8) %then %do;
%if &var1~= %then %do;
%let n=r_&var1;
%let m=s_&var1;

data s_&var1(rename=(semear&i=s_&var1));
set in.&type._&var1(keep=semear&i &byvar);
proc sort; by &byvar;
data r_&var1;

set in2.h&i.&var1(rename=(resid&i=r_&var1));

proc sort data=r_&var1; by mprid;
%end;
%if &var2~= %then %do;
%let n=%str(&n r_&var2);
%let m=%str(&m s_&var2);
data s_&var2(rename=(semear&i=s_&var2));
set in.&type._&var2(keep=semear&i &byvar);

```

```

proc sort; by &byvar;
data r_&var2;

set in2.h&i.&var2(rename=(resid&i=r_&var2));

proc sort data=r_&var2; by mprid;
%end;
%if &var3~= %then %do;
%let n=%str(&n r_&var3);
data s_&var3(rename=(semean&i=s_&var3));
set in.&type._&var3(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var3;

set in2.h&i.&var3(rename=(resid&i=r_&var3));

proc sort data=r_&var3; by mprid;
%let m=%str(&m s_&var3); %end;

%if &var4~= %then %do;
%let n=%str(&n r_&var4);
data s_&var4(rename=(semean&i=s_&var4));
set in.&type._&var4(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var4;

set in2.h&i.&var4(rename=(resid&i=r_&var4));

%let m=%str(&m s_&var4);
proc sort data=r_&var4; by mprid;
%end;
/* Merge residual files and estimate correlations */
data infile;
merge &n; by mprid;
proc sort; by &byvar;
proc corr outp=outf noprint;
by &byvar;
var &n;
weight cfw;
data outf;
set outf; by &byvar;
where _type_='CORR';
/* sum standard error of a row variable times correlation times standard error of each column
variable, then sum sums and take square root, divide by number of variables */
data final;
merge &m outf; by &byvar;
data final;
set final; by &byvar;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
%do j=1 %to &qcount;
if upcase(_name_)=upcase("R_&&var&j") then
sde=sum(sde,r_val(i)*s_&&var&j*s_val(i));
%end;
end;
run;

data sefin&compos._&i errd;
set final; by &byvar;
if first.&byvar then tv=0;
tv+sde;
if last.&byvar then do;
/**RSG 02/2005 Changed to only do exponential if tv value is non-negative -
those with negative trend is set aside to print out and determine whether from
nonmissing data of 30 or more*/
if tv >= 0 then sde&i=(tv**.5)/&qcount;
else if tv <= 0 then do;
output errd;
sde&i=.;
end;
output sefin&compos._&i;

```

```

end;
run;
/**RSG 02/2005 Count how many nonmissing values are in the trend dataa
to determine if negative trend is something to be concerned about*/
proc means data=infile noprint;
by &byvar;
var &n;
output out=missing (drop=_type_ _freq_) n=;
data errd2;
merge errd(in=a drop=&n) missing (in=b);
by &byvar;
if a;
run;
proc print data=errd2;
var &byvar tv &n;
title "ERROR: NEGATIVE TREND FOR &N IN GROUP=&I. AND COMPOSE=&COMPOS";
run;
title ' '; /**RSG 02/2005 blank out title for next loop*/

%if &i=1 %then %do;
data sefin&compos;
set sefin&compos._1(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;
%else %do;
data sefin&compos;
merge sefin&compos sefin&compos._&i(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;

%end;
%end;

data out.&type.compos&compos;
merge compos&compos sefin&compos; by &byvar;
run;
PROC PRINT DATA=OUT.&TYPE.COMPOS&COMPOS;
TITLE1 COMPTITL;
RUN;
%MEND COMPOSIT;

*-----;
*-      set the parameters here      -;
*-----;
*****;
* call the macro for each composite;
*****; /*MJS 02/04/04*/
%COMPOSIT (type=R,compos=1,var1=R10029,var2=R10033,qcount=2);
%COMPOSIT (type=R,compos=2,var1=R10007,var2=R10010,qcount=2);
%COMPOSIT (type=R,compos=3,var1=R10021,var2=R10022,var3=R10023,var4=R10024,qcount=4);
%COMPOSIT (type=R,compos=4,var1=R10040,var2=R10041,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R10045,var2=R10046,qcount=2);

%COMPOSIT (type=C,compos=1,var1=R10029,var2=R10033,qcount=2);
%COMPOSIT (type=C,compos=2,var1=R10007,var2=R10010,qcount=2);
%COMPOSIT (type=C,compos=3,var1=R10021,var2=R10022,var3=R10023,var4=R10024,qcount=4);
%COMPOSIT (type=C,compos=4,var1=R10040,var2=R10041,qcount=2);
%COMPOSIT (type=C,compos=5,var1=R10045,var2=R10046,qcount=2);

```

G.9.K REPORTCARDS\CAHPS_ADULT2010\FILES.INC - INCLUDE FILE IN COMPOSIT.SAS.

```
SET  
IN.C_R10045  
IN.C_R10046  
;
```

G.10.A LOADWEB\LOADCAHP.SAS - CONVERT CAHPS SCORES INTO WEB LAYOUT - ANNUAL.

```

*****
*
* PROGRAM:  LOADCAHP.SAS
* TASK:    2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Convert the CAHPS Scores Database into the WEB layout
*
* WRITTEN: 06/01/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 01/28/2002 BY KEITH RATHBUN, Updated to support the 2000 survey.
*           2) 01/07/2003 BY KEITH RATHBUN, Updated to support the 2002 survey.
*           3) 02/06/2004 BY MIKE SCOTT, Updated for the 2003 Annual Report.
*           4) 02/2005   BY REGINA GRAMSS, Updated for 2004 Annual Report. Change
*                   region variable to XSERVREG
*           5) 11/01/2006 BY KEITH RATHBUN, Updated for 2006 Annual Report.
*           6) 11/09/2007 BY KEITH RATHBUN, Updated for 2007 Annual Report.
*           7) 10/29/2008 BY MIKE RUDACILLE, Updated for 2008 Annual Report.
*           8) 10/6/09 by Emma Ernst, updated for 2009 annual report.
*           9) 09/07/10 by Mike Rudacille, updated for 2010 annual report.
*
* INPUTS:  1) CAHPS Individual and Composite data sets with adjusted scores
*
* OUTPUT:  1) LOADCAHP.sas7bdat - Combined CAHPS Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*             and composite data sets
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1.SAS - Recode questions and generate group files
*   - STEP2.SAS - Calculate individual adjusted scores for group 1-8
*   - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*
* 2) The output file (LOADCAHP.sas7bdat) will be run through the
*   MAKEHTML.SAS program to generate the WEB pages.
*****
* Assign data libraries and options
*****;
LIBNAME IN  "..\REPORTCARDS\CAHPS_ADULT2010\DATA";
LIBNAME OUT ".";
LIBNAME LIBRARY "..\..\DATA\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER NOFMterr;

*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "LOADCAHQ.INC";

*****
*****
* Process Macro Input Parameters:
*
* 1) QUESTION = Variable Question Name (DSN).
*   - For individual Questions it is the variable name
*   - For composite Questions it is called xCOMPOSn
*     where n = a predefined composite # and
*           x = R (Region) or C (Catchment)
* 2) TYPE = Type of Score (COMPOSITE or INDIVIDUAL)
* 3) REGCAT = Region/Catchment Area
*
*****
*****;
%MACRO PROCESS(QUESTION=,TYPE=,REGCAT=);
*****
* Assign value for BENTYPE composite year
*****;
%LET YEAR = 2010;

```

```

*****
* Assign prefix for weighted/unweighted count variables.
* Unweighted counts are REGCNTn or CATCNTn where n=group number.
* Weighted counts are REGWGTn or CATWGTn where n=group number.
*****;
%IF "&REGCAT" = "Region" %THEN %DO;
  %LET PREFIX = REG;
%END;
%ELSE %IF "&REGCAT" = "Catchment" %THEN %DO;
  %LET PREFIX = CAT;
%END;
%ELSE %DO;
  %PUT "ERROR: Invalid Type = &TYPE";
%END;

*****
*
* Convert the CAHPS individual Scores Record into WEB layout.
* There are 8 logical records (adjusted scores) per physical record:
*
*
* _____
* Adjusted Score      Definitions
* Group Number
* _____
* 1. Prime enrollees  XINS_COV IN (1,2,6) AND H08007>=2
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H08007>=2
* 3. Enrollees w/civ PCM  XENR_PCM = 3 AND H08007>=2
* 4. Nonenrollees      XINS_COV IN (3)
* 5. Active duty       BFGROUPP=1
* 6. Active duty dependents BFGROUPP=2
* 7. Retirees and dependents BFGROUPP IN (3,4)
* 8. All beneficiaries All beneficiaries
*
*****;
DATA &QUESTION;
  SET IN.&QUESTION;

  LENGTH MAJGRP  $30;
  LENGTH REGION $25; /*RSG 02/2005 Increased length to accommodate new region*/
  LENGTH REGCAT $42;
  LENGTH BENTYPE $50;
  LENGTH BENEFIT $34;
  LENGTH TIMEPD $5; /*RSG 02/2005*/
  *****;
  * Assign Region;
  *****;
  %IF &REGCAT = Region %THEN %DO;
    REGION = PUT(XSERVREG,SERVREGF.);
  %END;
  %ELSE %IF &REGCAT = Catchment %THEN %DO;
    REGION = PUT(XSERVIND,SERVREGO.);
  %END;
  *****;
  * Assign benefit and benefit type;
  *****;
  IF "&TYPE" = "INDIVIDUAL" THEN DO;
    IF DEPENDNT IN("R10018", "R10047", "R10027", "R10031") THEN
      BENTYPE = "Composite";
    ELSE
      BENTYPE = PUT(DEPENDNT,$BENTYPF.);
      BENEFIT = PUT(DEPENDNT,$BENEF.);
      TIMEPD = "&YEAR";
  END;
  ELSE IF "&TYPE" = "COMPOSITE" THEN DO;
    BENTYPE = "Composite"; ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
    BENEFIT = PUT(DEPENDNT,$BENEF.);
    TIMEPD = "&YEAR";
  END;
  ELSE PUT "ERROR: Invalid TYPE = &TYPE";
  *****;
  * For now, Initialize Significance test to zero;
  *****;
  SIG = 0;
  *****;

```



```

* Assign Region/Catchment Area;
*****;
%IF &REGCAT = Region %THEN %DO;
    REGCAT = PUT(XSERVREG,SERVREGF.);
%END;
%ELSE %IF &REGCAT = Catchment %THEN %DO;
    REGCAT = PUT(CACSMPL,CACR.);
%END;
%ELSE %DO;
    PUT "ERROR: Invalid REGCAT = &REGCAT";
%END;
*****;
* 1 = Prime Enrollees ;
*****;
MAJGRP = PUT(1,MAJGRP.F.);
SCORE = ADJ1;
SEMEAN = SEMEAN1;
N_OBS = &PREFIX.CNT1;
N_WGT = &PREFIX.WGT1;
OUTPUT;
*****;
* 2 = Enrollees with military PCM ;
*****;
MAJGRP = PUT(2,MAJGRP.F.);
SCORE = ADJ2;
SEMEAN = SEMEAN2;
N_OBS = &PREFIX.CNT2;
N_WGT = &PREFIX.WGT2;
OUTPUT;
*****;
* 3 = Enrollees with civilian PCM ;
*****;
%IF &REGCAT = Region %THEN %DO;
    MAJGRP = PUT(3,MAJGRP.F.);
    SCORE = ADJ3;
    SEMEAN = SEMEAN3;
    N_OBS = &PREFIX.CNT3;
    N_WGT = &PREFIX.WGT3;
    OUTPUT;
%END;
*****;
* 4 = Non-enrolled beneficiaries ;
*****;
%IF &REGCAT = Region %THEN %DO;
    MAJGRP = PUT(4,MAJGRP.F.);
    SCORE = ADJ4;
    SEMEAN = SEMEAN4;
    N_OBS = &PREFIX.CNT4;
    N_WGT = &PREFIX.WGT4;
    OUTPUT;
%END;
*****;
* 5 = Active duty;
*****;
MAJGRP = PUT(5,MAJGRP.F.);
SCORE = ADJ5;
SEMEAN = SEMEAN5;
N_OBS = &PREFIX.CNT5;
N_WGT = &PREFIX.WGT5;
OUTPUT;
*****;
* 6 = Active duty dependents;
*****;
%IF &REGCAT = Region %THEN %DO;
    MAJGRP = PUT(6,MAJGRP.F.);
    SCORE = ADJ6;
    SEMEAN = SEMEAN6;
    N_OBS = &PREFIX.CNT6;
    N_WGT = &PREFIX.WGT6;
    OUTPUT;
%END;
*****;
* 7 = Retirees and dependents;
*****;

```

```

%IF &REGCAT = Region %THEN %DO;
    MAJGRP = PUT(7,MAJGRP.);
    SCORE = ADJ7;
    SEMEAN = SEMEAN7;
    N_OBS = &PREFIX.CNT7;
    N_WGT = &PREFIX.WGT7;
    OUTPUT;
%END;
*****;
* 8 = All Beneficiaries ;
*****;
MAJGRP = PUT(8,MAJGRP.);
SCORE = ADJ8;
SEMEAN = SEMEAN8;
N_OBS = &PREFIX.CNT8;
N_WGT = &PREFIX.WGT8;
OUTPUT;

KEEP MAJGRP
    REGION
    REGCAT
    BENTYPE
    BENEFIT
    TIMEPD
    SCORE
    SEMEAN
    N_OBS
    N_WGT
    SIG
;
RUN;

%MEND;

*****;
* COMPOSITE # 1.;
* GETTING NEEDED CARE VARIABLES.;
*****;
%PROCESS(QUESTION=R_COMPOS1,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R10029,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R10033,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS1,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R10029,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R10033,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* COMPOSITE # 2.;
* GETTING CARE QUICKLY VARIABLES.;
*****;
%PROCESS(QUESTION=R_COMPOS2,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R10007,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R10010,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS2,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R10007,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R10010,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* COMPOSITE # 3.;
* HOW WELL DOCTORS COMMUNICATE.;
*****;
%PROCESS(QUESTION=R_COMPOS3,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R10021,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R10022,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R10023,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R10024,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS3,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R10021,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R10022,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R10023,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R10024,TYPE=INDIVIDUAL,REGCAT=Catchment);

```

```

*****;
* COMPOSITE # .;
* COURTEOUS AND HELPFUL OFFICE STAFF.;
*****;

*****;
* COMPOSITE # 4.;
* CUSTOMER SERVICE.;
*****;
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R10040,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R10041,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS4,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R10040,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R10041,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* COMPOSITE # 5.;
* CLAIMS PROCESSING.;
*****;
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R10045,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R10046,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS5,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R10045,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R10046,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* INDIVIDUAL # 1.;
* RATING OF ALL HEALTH CARE: 0 - 10.;
*****;
%PROCESS(QUESTION=R_R10018,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=C_R10018,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* INDIVIDUAL # 2.;
* RATING OF HEALTH PLAN: 0 - 10.;
*****;
%PROCESS(QUESTION=R_R10047,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=C_R10047,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* INDIVIDUAL # 3.;
* RATING OF PERSONAL DOCTOR: 0 - 10.;
*****;
%PROCESS(QUESTION=R_R10027,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=C_R10027,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* INDIVIDUAL # 4.;
* SPECIALTY CARE: 0 - 10.;
*****;
%PROCESS(QUESTION=R_R10031,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=C_R10031,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
*****;
* STACK up all of the files into one final output dataset.;
*****;
*****;
DATA OUT.LOADCAHP;
  SET R_R10029 C_R10029
      R_R10033 C_R10033
      R_R10007 C_R10007
      R_R10010 C_R10010
      R_R10021 C_R10021
      R_R10022 C_R10022
      R_R10023 C_R10023
      R_R10024 C_R10024
      R_R10040 C_R10040

```

```

R_R10041 C_R10041
R_R10045 C_R10045
R_R10046 C_R10046
R_R10018 C_R10018
R_R10047 C_R10047
R_R10027 C_R10027
R_R10031 C_R10031
RCOMPOS1 CCOMPOS1
RCOMPOS2 CCOMPOS2
RCOMPOS3 CCOMPOS3
RCOMPOS4 CCOMPOS4
RCOMPOS5 CCOMPOS5

;
IF SCORE = . THEN DELETE;
RUN;

TITLE1 "2010 DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: LOADCAHP.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHP.sas7bdat - Combined CAHPS Scores Database in WEB layout";

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;

```

G.10.B LOADWEB\LOADCAHQ.INC - FORMAT DEFINITIONS FOR CONVERTING THE SCORES DATABASE INTO THE WEB LAYOUT - ANNUAL.

```

*****
*
* PROGRAM:  LOADCAHQ.INC
* TASK:    QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Format definitions for converting the CAHPS Scores Database
*          into the WEB layout.
*
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.INC.
*
* MODIFIED: 1) 08/13/2001 BY KEITH RATHBUN, Added XSERVAFF format to
*            accommodate the short reports.
*            2) 01/24/2002 BY KEITH RATHBUN, Added BENTYPPF = 1998,1999,2000
*            added catchment composites.
*            3) 04/10/2002 BY KEITH RATHBUN, Added parameters for 2002 survey.
*            4) 04/03/2003 BY MIKE SCOTT, Added parameters for 2003 survey.
*            5) 07/08/2003 BY MIKE SCOTT, Added formats GETNCARE, GETCAREQ,
*            CRTSHELP, HOWWELL, CUSTSERV, CLMSPROC, and PREVCARE.
*            6) 03/22/2004 BY KEITH RATHBUN, Added parameters for 2004 survey.
*            Changed R04031 to be "Wait Less than 15 Minutes For Appointment".
*            7) 05/06/2004 BY MIKE SCOTT, Changed R04031 back to 2003 version of
*            the label ("Wait More than 15 Minutes Past Appointment") so that
*            the Q1 2004 version of the question is consistent with past
*            versions. The label will be changed to the new version ("Waiting
*            in the Doctor's Office") in Makehtmq.sas.
*            8) 02/2006 BY REGINA GRAMSS, Changed date format to fielding dates.
*            9) 03/21/2006 BY KEITH RATHBUN, Added parameters for 2006 survey.
*            10) 08/22/2006 BY JUSTIN OH, Changed SERVREGF format for Overseas.
*            11) 12/15/2006 BY JUSTIN OH, Added parameters for 2007 survey.
*            12) 02/02/2007 BY JUSTIN OH, Added "s" in Healthy Behaviors in VALUE BEN.
*            13) 01/10/2008 BY KEITH RATHBUN, Added parameters for 2008 survey.
*            14) 01/09/2009 BY MIKE RUDACILLE, Added parameters for 2009 survey.
*            14) 01/16/2009 BY MIKE RUDACILLE, Changed CONUS to USA.
*            15) 04/11/2009 by Mike Rudacille - Changed formats to reflect
*            modifications to beneficiary reports necessary for V4
*            16) 12/17/09 by Emma Ernst, Added parameters for 2010 survey.
*
* INPUTS:  No direct input
*
* OUTPUT:  No direct output
*
* NOTES:   1) Under the new contract (8860), the survey year was changed
*            to be based on the year the survey is administered (2002)
*            as opposed to the questioning reference frame (2001). This
*            include file contains variable names for both the 2001
*            survey administration year and the the 2002 administration
*            year surveys.
*****
;
*****
* FORMAT Definitions
*****;
PROC FORMAT;
  VALUE MAJGRPF
    1 = "Prime Enrollees           "
    2 = "Enrollees with Military PCM"
    3 = "Enrollees with Civilian PCM"
    4 = "Non-enrolled Beneficiaries "
    5 = "Active Duty               "
    6 = "Active Duty Dependents    "
    7 = "Retirees and Dependents   "
    8 = "All Beneficiaries         "
  ;
  VALUE XSERVAFF
    1 = "ARMY"
    2 = "AIR FORCE"
    3 = "NAVY"
    4 = "OTHER"
  ;
  VALUE REGIONF

```

```

0 = "USA MHS "
1 = "North"
2 = "South"
3 = "West"
4 = "Overseas"

```

```
;
```

```
/*JSO 08/24/2006, Changed Overseas to Service for Europe,Pacific,Latin*/
```

```
VALUE SERVREGF
```

```

1 = "North Army"
2 = "North Air Force"
3 = "North Navy"
4 = "North Other"
5 = "South Army"
6 = "South Air Force"
7 = "South Navy"
8 = "South Other"
9 = "West Army"
10 = "West Air Force"
11 = "West Navy"
12 = "West Other"
13 = "Europe Army"
14 = "Europe Air Force"
15 = "Europe Navy"
16 = "Europe Other"
17 = "Pacific Army"
18 = "Pacific Air Force"
19 = "Pacific Navy"
20 = "Pacific Other"
21 = "Latin America Army"
22 = "Latin America Air Force"
23 = "Latin America Navy"
24 = "Latin America Other"
25 = "USA ARMY"
26 = "USA AIR FORCE"
27 = "USA NAVY"
28 = "USA OTHER";

```

```
/*JSO 08/24/2006, Changed Overseas to Europe,Pacific,Latin*/
```

```
VALUE SERVREGO
```

```

1 = "North Army"
2 = "North Air Force"
3 = "North Navy"
4 = "North Other"
5 = "South Army"
6 = "South Air Force"
7 = "South Navy"
8 = "South Other"
9 = "West Army"
10 = "West Air Force"
11 = "West Navy"
12 = "West Other"
13 = "Overseas Europe"
14 = "Overseas Pacific"
15 = "Overseas Latin America";

```

```
VALUE $BENTYPF
```

```

"1998 " = "1998 "
"1999 " = "1999 "
"2000 " = "2000 "
"2001 " = "2001 "
"2002 " = "2002 "
"2003 " = "2003 "
"2004 " = "2004 "
"2005 " = "2005 "
"2006 " = "2006 "
"2007 " = "2007 "
"2008 " = "2008 "
"2000 Q1 " = "January, 2000 to December, 2000 "
"2000 Q2 " = "April, 2000 to March, 2001 "
"2000 Q3 " = "July, 2000 to June, 2001 "
"2000 Q4 " = "October, 2000 to September, 2001 "
"2002 Q1 " = "January, 2001 to December, 2001 "
"2002 Q2 " = "April, 2001 to March, 2002 "

```

```

"2002 Q3 " = "July, 2001 to June, 2002      "
"2002 Q4 " = "October, 2001 to September, 2002  "
"2003 Q1 " = "January, 2002 to December, 2002  "
"2003 Q2 " = "April, 2002 to March, 2003       "
"2003 Q3 " = "July, 2002 to June, 2003         "
"2003 Q4 " = "October, 2002 to September, 2003  "
"2004 Q1 " = "January, 2003 to December, 2003  "
"2004 Q2 " = "April, 2003 to March, 2004        "
"2004 Q3 " = "Quarter 3, CY 2004                "
"2004 Q4 " = "Quarter 4, CY 2004                "
"2005 Q1 " = "January, 2005                     "
"2005 Q2 " = "April, 2005                       "
"2005 Q3 " = "July, 2005                         "
"2005 Q4 " = "October, 2005                       "
"2006 Q1 " = "January, 2006                       "
"2006 Q2 " = "April, 2006                         "
"2006 Q3 " = "July, 2006                           "
"2006 Q4 " = "October, 2006                       "
"2007 Q1 " = "January, 2007                       "
"2007 Q2 " = "April, 2007                         "
"2007 Q3 " = "July, 2007                           "
"2007 Q4 " = "October, 2007                       "
"2008 Q1 " = "January, 2008                       "
"2008 Q2 " = "April, 2008                         "
"2008 Q3 " = "July, 2008                           "
"2008 Q4 " = "October, 2008                       "
"2009 Q1 " = "January, 2009                       "
"2009 Q2 " = "April, 2009                         "
"2009 Q3 " = "July, 2009                           "
"2009 Q4 " = "October, 2009                       "
"2010 Q1 " = "January, 2010                       "
"2010 Q2 " = "April, 2010                         "
"2010 Q3 " = "July, 2010                           "
"2010 Q4 " = "October, 2010                       "

```

```

/*****
*****/
/*
/* 2001      2002      2003      2004      2005      2006      2007      2008      2009
2010 */

```

```

/*****
*****/
"R00014 ", "R02016 ", "R03013 ", "R04013", "R05013", "R06013", "R07013", "R08013",
"R09029", "R10029" = "Getting to See a Specialist
"R00028 ", "R02030 ", "R03027 ", "R04028", "R05027", "R06027", "R07027", "R08027",
"R09033", "R10033" = "Getting Treatment
"R00024 ", "R02026 ", "R03023 ", "R04020", "R05019", "R06019", "R07019", "R08019",
"R09007", "R10007" = "Wait for Urgent Care
"R00021 ", "R02023 ", "R03020 ", "R04023", "R05022", "R06022", "R07022", "R08022",
"R09010", "R10010" = "Wait for Routine Visit
"R00033 ", "R02035 ", "R03032 ", "R04034", "R05033", "R06033", "R07033", "R08033",
"R09021", "R10021" = "Listens Carefully
"R00034 ", "R02036 ", "R03033 ", "R04035", "R05034", "R06034", "R07034", "R08034",
"R09022", "R10022" = "Explains so You Can Understand
"R00035 ", "R02037 ", "R03034 ", "R04036", "R05035", "R06035", "R07035", "R08035",
"R09023", "R10023" = "Shows Respect
"R00036 ", "R02038 ", "R03035 ", "R04037", "R05036", "R06036", "R07036", "R08036",
"R09024", "R10024" = "Spends Time with You
"R00048 ", "R02048 ", "R03044 ", "R04045", "R05043", "R06043", "R07043", "R08043",
"R09040", "R10040" = "Getting Information
"R00050 ", "R02050 ", "R03046 ", "R04047", "R05045", "R06045", "R07045", "R08045",
"R09041", "R10041" = "Courteous Customer Service
"R00044 ", "R02044 ", "R03040 ", "R04041", "R05040", "R06040", "R07040", "R08040",
"R09045", "R10045" = "Claims Handled in a Reasonable Time"
"R00045 ", "R02045 ", "R03041 ", "R04042", "R05041", "R06041", "R07041", "R08041",
"R09046", "R10046" = "Claims Handled Correctly
"R00037 ", "R02039 ", "R03036 ", "R04038", "R05037", "R06037", "R07037", "R08037",
"R09018", "R10018" = "Health Care
"R00056 ", "R02056 ", "R03052 ", "R04054", "R05048", "R06048", "R07048", "R08048",
"R09047", "R10047" = "Health Plan
"R00009 ", "R02011 ", "R03011 ", "R04009", "R05009", "R06009", "R07009", "R08009",
"R09027", "R10027" = "Primary Care Manager

```

```

"R00016", "R02018", "R03015", "R04015", "R05015", "R06015", "R07015", "R08015",
"R09031", "R10031" = "Specialty Care"
"PHYSIC" = "Physical"
"MENTAL" = "Mental"
;
VALUE $BENEF
"RCOMPOS1", "CCOMPOS1", "R00014", "R00028",
"R02016", "R02030",
"R03013", "R03027",
"R04013", "R04028",
"R05013", "R05027",
"R06013", "R06027",
"R07013", "R07027",
"R08013", "R08027",
"R09029", "R09033",
"R10029", "R10033"
= "Getting Needed Care"
"RCOMPOS2", "CCOMPOS2", "R00024", "R00021",
"R02026", "R02023",
"R03023", "R03020",
"R04020", "R04023",
"R05019", "R05022",
"R06019", "R06022",
"R07019", "R07022",
"R08019", "R08022",
"R09007", "R09010",
"R10007", "R10010"
= "Getting Care Quickly"
"RCOMPOS3", "CCOMPOS3", "R00033", "R00034", "R00035", "R00036",
"R02035", "R02036", "R02037", "R02038",
"R03032", "R03033", "R03034", "R03035",
"R04034", "R04035", "R04036", "R04037",
"R05033", "R05034", "R05035", "R05036",
"R06033", "R06034", "R06035", "R06036",
"R07033", "R07034", "R07035", "R07036",
"R08033", "R08034", "R08035", "R08036",
"R09021", "R09022", "R09023", "R09024",
"R10021", "R10022", "R10023", "R10024"
= "How Well Doctors Communicate"
"RCOMPOS4", "CCOMPOS4", "R00048", "R00050",
"R02048", "R02050",
"R03044", "R03046",
"R04045", "R04047",
"R05043", "R05045",
"R06043", "R06045",
"R07043", "R07045",
"R08043", "R08045",
"R09040", "R09041",
"R10040", "R10041"
= "Customer Service"
"RCOMPOS5", "CCOMPOS5", "R00044", "R00045",
"R02044", "R02045",
"R03040", "R03041",
"R04041", "R04042",
"R05040", "R05041",
"R06040", "R06041",
"R07040", "R07041",
"R08040", "R08041",
"R09045", "R09046",
"R10045", "R10046"
= "Claims Processing"
"RCOMPOS11", "COMPOS11", "MENTAL", "PHYS"
= "Health Status"

```

```

/*****
****/
/* Admin. Year Defn.
*/

```



```

/* 2001      2002      2003      2004      2005      2006      2007      2008      2009
2010 */

/*****
****/
"R00037", "R02039", "R03036", "R04038", "R05037", "R06037", "R07037", "R08037", "R09018",
"R10018" = "Health Care
"R00056", "R02056", "R03052", "R04054", "R05048", "R06048", "R07048", "R08048", "R09047",
"R10047" = "Health Plan
"R00009", "R02011", "R03011", "R04009", "R05009", "R06009", "R07009", "R08009", "R09027",
"R10027" = "Primary Care Manager
"R00016", "R02018", "R03015", "R04015", "R05015", "R06015", "R07015", "R08015", "R09031",
"R10031" = "Specialty Care
;
VALUE BEN
/* 0 = 'Total' deleted no longer calculating total 04/2005 RSG ***/
1 = 'Getting Needed Care'
2 = 'Getting Care Quickly'
3 = 'How Well Doctors Communicate'
4 = 'Customer Service'
5 = 'Claims Processing'
6 = 'Health Plan'
7 = 'Health Care'
8 = 'Primary Care Manager'
9 = 'Specialty Care'
10 = 'Preventive Care'
11 = 'Healthy Behaviors';

VALUE MAJOR
1 = "Prime Enrollees "
2 = "Enrollees with Military PCM"
3 = "Enrollees with Civilian PCM"
4 = "Non-enrolled Beneficiaries "
5 = "Active Duty "
6 = "Active Duty Dependents "
7 = "Retirees and Dependents "
8 = "All Beneficiaries ";

VALUE GETNCARE
1 = "Getting to See a Specialist"
2 = "Getting Treatment"
3 = "Composite";

VALUE GETCAREQ
1 = "Wait for Routine Visit"
2 = "Wait for Urgent Care"
3 = "Composite";

VALUE HOWWELL
1 = "Listens Carefully"
2 = "Explains so You Can Understand"
3 = "Shows Respect"
4 = "Spends Time with You"
5 = "Composite";

VALUE CUSTSERV
1 = "Getting Information"
2 = "Courteous Customer Service"
3 = "Composite";

VALUE CLMSPROC
1 = "Claims Handled in a Reasonable Time"
2 = "Claims Handled Correctly"
3 = "Composite";

VALUE PREVCARE
1 = "Mammography"
2 = "Pap Smear"
3 = "Hypertension"
4 = "Prenatal Care"
5 = "Composite";

VALUE SMOKEF
1 = "Non-Smoking Rate"

```

```
2 = "Counselled To Quit"  
3 = "Percent Not Obese"  
4 = "Composite";  
RUN;
```

G.11.A BENCHMARK\BENCHA03.SAS - CALCULATE CAHPS BENCHMARK DATA FOR HCSDB - ANNUAL.

```
*****
*
* PROGRAM:  BENCHA03.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Adjust Adult CAHPS Benchmarks
*
* WRITTEN: June 2000 BY ERIC SCHONE
*
* INPUTS:  1) BENCHA02.SD2 - 2005 Adult CAHPS Questions Renamed to be
*           consistent with the 2006 MPR DOD Survey.
*           2) GROUP8.SD2 - CAHPS Group8 (all beneficiaries) Dataset
*
* OUTPUTS: 1) Benchmark Composite Scores Data Sets
*
* MODIFIED: 1) Nov 2000 BY ERIC SCHONE - Output permanent datasets with
*           scores and standard errors and process the rest of the
*           composites and ratings.
*           2) Dec 2000 BY KEITH RATHBUN - Update variable names for
*           Q1 2000 Survey.
*           3) Jan 2002 BY KEITH RATHBUN - Updated to run under SAS
*           version 8 (changed INTERCEP to INTERCEPT).
*           4) Apr 2002 BY MIKE SCOTT - Updated variable names for Q1
*           2002 Survey.
*           5) Jul 2002 BY MIKE SCOTT - Changed R00077 to R04075, since
*           H02077 (health status) is back and was renamed to R04075
*           in HSC022_1.sd2.
*           6) Mar 2003 BY MIKE SCOTT - Updated for 2003 survey.
*           7) May 2003 BY MIKE SCOTT - Changed ac03_01 to ac03_02.
*           8) Jun 2003 BY MIKE SCOTT - Updated for Q2 2003.
*           9) Oct 2003 BY MIKE SCOTT - Updated for Q3 2003.
*           10) Mar 2004 BY MIKE SCOTT - Updated for Q1 2004.
*           11) April 2004 BY KEITH RATHBUN - Updated to use the CAHPS 2003
*           variable ac03_03.
*           12) June 2004 BY REGINA GRAMSS - Updated to use for Q2 2004
*           13) Sept 2004 BY REGINA GRAMSS - Update for Q3 2004
*           14) May 2005 BY REGINA GRAMSS - Updated for Q1 2005
*           15) Jul 2005 BY REGINA GRAMSS - Updated for Q2 2005
*           16) Oct 2005 BY REGINA GRAMSS - Updated for Q3 2005
*           17) Dec 2005 BY REGINA GRAMSS - Updated for Q4 2005
*           18) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
*           Changed variable names to match the 2006 HCSDB survey.
*           19) 07/12/2006 by Justin Oh - Updated for Q3 FY 2006.
*           20) 10/03/2006 by Justin Oh - Changed libname in2 for Q4FY2006.
*           Change the INCLUDE path to CONVERT.sas file.
*           21) 12/18/2006 by Justin Oh - Changed libname in2 for Q1FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           22) 04/05/2007 by Justin Oh - Changed libname in2 for Q2FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           23) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
*           ReportCards OR PurchasedReportCards.
*           24) 04/05/2007 by Keith Rathbun - Changed libname in2 for Q3FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           25) 09/04/2007 by Justin Oh - Changed libname in2 for Q4FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           26) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
*           Changed variable names to match the 2008 HCSDB survey.
*           27) 04/11/2008 by Justin Oh - Changed libname in2 for Q2FY2008.
*           Change the INCLUDE path to CONVERT.sas file.
*           28) 06/13/2008 by Keith Rathbun - Changed libname in2 for Q3FY2008.
*           Change the INCLUDE path to CONVERT.sas file.
*           29) April 10, 2009 by Mike Rudacille, changed variable names to reflect
*           modifications to beneficiary reports necessary for V4
*           30) Sept 30, 2009 by Mike Rudacille - Changed libname in2 for Q4FY2009.
*           Change the INCLUDE path to CONVERT.sas file.
*           31) October 9, 2009 by Emma Ernst- Updated for 2009 database
*           32) Sept 10, 2010 by Mike Rudacille - Updated for 2010 annual report
*
* NOTES:
*
* 1) Run this program after BENCHA01.SAS and BENCHA02.SAS.
* 2) This program will generate the input for BENCHA04.SAS.
```

```

*
*****
* Assign data libraries and options
*****;

/** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ***/
%LET RCTYPE = ReportCards;

*libname in          "..\..\..\..\Q2FY2009\Programs\Benchmark\Data"; /*Use BENCH02.sas7bdat from
Q2fy2009*/
libname in          "..\..\..\..\Q2FY2010\Programs\Benchmark\Data";
libname in2         "..\&RCTYPE\CAHPS_Adult2010\Data";
libname out         "Data";
LIBNAME LIBRARY    "..\..\..\DATA\FMTLIB";

%let wgt=CFWT;

OPTIONS MLOGIC MPRINT NOCENTER MERGENOBY=WARN LS=132 PS=79;

%macro comb(f,t,q,l);

proc summary data=&f;
var &t;
where &q~=. ;
weight &wgt;
output out=temp mean=&t;
run;

data temp;
set temp;
array old &t;
call symput('z',left(dim(old)));
run;

data temp(drop=_type_ &t);
set temp;
array old &t;
array new var1-var&z;
do i=1 to &z;
new(i)=old(i);
end;
run;

data &q._&l;
merge temp c_&q;
array coeffs &t;
array means var1-var&z;
DO I = 1 TO DIM(COEFFS);
IF COEFFS(I) = . THEN COEFFS(I) = 0;
IF MEANS(I) = . THEN MEANS(I) = 0;
ADJUST + ( COEFFS(I) * MEANS(I) );
END;

ADJUST = ADJUST + intercept;
&q._&l=adjust;

run;

%mend comb;

%macro adjust(x,y);

proc summary data=setup;
where &x>. ;
class product;

output out=count;
run;

data count count2(rename=( _freq_ =denom));
set count;

```

```

if _type_=0 then output count2;
else output count;
run;

data count(keep=pweight product);
if _n_=1 then set count2;
set count;
pweight=denom/_freq_;
run;

data temp;
merge count setup; by product;

run;
proc summary data=temp;
where &x>.;
weight pweight;
var &y;
output out=temp2 mean=&y;
data temp2;
set temp2;
array old &y;
call symput('z',left(dim(old)));
run;
data temp2(keep=var1-var&z);
set temp2;
array old &y;
array new var1-var&z;
do i=1 to &z;
new(i)=old(i);
end;
run;
data temp;
set temp;
if _n_=1 then set temp2;
array old &y;
array new var1-var&z;
do i=1 to &z;
if old(i)=. then
old(i)=new(i);
end;
run;
proc reg data=temp outest=c_&x noprint;
model &x=&y;
weight pweight;
output out=r_&x r=r_&x;
run;

proc sort data=r_&x; by product;
run;

PROC DESCRIPT DATA=r_&x DESIGN=STRWR NOPRINT;
WEIGHT pweight;
SETENV DECWIDTH=4;
NEST product / missunit;
VAR R_&x;
OUTPUT SEMEAN / TABLECELL=DEFAULT
FILENAME=s_&x;
RUN;

data s_&x(rename=(semean=s_&x));
set s_&x(keep=semean);
%do i=1 %to 8;
%if &i=8 %then %do;

data group8;
set in2.group5 in2.group6 in2.group7;
run;
%comb(group8,&y,&x,8);
%end;
%else %do;
%comb(in2.group&i,&y,&x,&i);
%end;
%end;

```

```

%mend adjust;

/* adjust all the variables */

%macro comp(compno,a,b,c,d);
%if &a~= %then %do;
  %let n=r_&a;
  %let m=s_&a;
  %do i=1 %to 8;
    %let p&i=&a._&i;
  %end;
  %let grpnum=1;
  proc sort data=r_&a;
    by mpid;
  run;
%end;
%if &b~= %then %do;
  %let n=%str(&n r_&b);
  %let m=%str(&m s_&b);
  %do i=1 %to 8;
    %let p&i=%str(&&p&i &b._&i);
  %end;
  %let grpnum=2;
  proc sort data=r_&b;
    by mpid;
  run;
%end;
%if &c~= %then %do;
  proc sort data=r_&c;
    by mpid;
  run;
  %let grpnum=3;
  %let n=%str(&n r_&c);
  %do i=1 %to 8;
    %let p&i=%str(&&p&i &c._&i);
  %end;
  %let m=%str(&m s_&c); %end;

%if &d~= %then %do;
  proc sort data=r_&d;
    by mpid;
  run;
  %let grpnum=4;
  %let n=%str(&n r_&d);
  %do i=1 %to 8;
    %let p&i=%str(&&p&i &d._&i);
  %end;

  %let m=%str(&m s_&d);
%end;

data infile;
merge &n;
by mpid;
run;

proc corr outp=outf noprint;
var &n;
weight pweight;
run;

data final;
if _n_=1 then do;
  %if &a~= %then %do;
    set s_&a;
  %end;
  %if &b~= %then %do;
    set s_&b;
  %end;
  %if &c~= %then %do;
    set s_&c;
  %end;

```

```

    %if &d~= %then %do;
        set s_&d;
    %end;
end;
set outf;
call symput('s' || compress(_n_) , substr(_name_, 3));
where _type_='CORR';
run;

data final;
set final;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
    %do i=1 %to &grpnum;
        if _name_="r_&&s&i" then
            sde=sde+r_val(i)*s_&&s&i*s_val(i);
        %end;
    end;
run;

data sefin&compno;
set final end=last;
tv+sde;
if last then do;
    sde=(tv**.5)/&grpnum;
    output;
end;

%do i=1 %to 8;
    data temp(keep=&p&i);
        merge &p&i;
    run;

data output;
set &p&i;
totadj+adjust;
run;

data output(keep=totadj);
set output end=last;
if last then do;
    totadj=totadj/&grpnum;
    output;
end;
run;

data out&compno._&i;
merge output temp;
run;

data out.comp&compno._&i;
merge out&compno._&i
    sefin&compno;
run;

%end;

%mend comp;

/* create composites */
proc sort data=in.bencha02 out=setup;
by product;
run;
data setup;
set setup;
if ^(model in (2,4));
if disp in ('M10','I10') ;    ***KRR 04/19/04 Changed _02 to _03;
data setup;
set setup; by product;
mpid=_n_;
if agegroup ne . then do;
    age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;

```

```

        if agegroup=1 then age1824=1;
    else if agegroup=2 then age2534=1;
    else if agegroup=3 then age3544=1;
    else if agegroup=4 then age4554=1;
    else if agegroup=5 then age5564=1;
    else if agegroup=6 then age6574=1;
    end;
    if agegroup<6;

run;
%INCLUDE "..\REPORTCARDS\CAHPS_Adult2010\CONVERT.SAS";

%CONT2(DSN=SETUP, NUM=4, Y=R10018 R10047 R10027 R10031);
%CONT3(DSN=SETUP, NUM=12, Y=R10007 R10010 R10029 R10033
    R10021 R10022 R10023 R10024
    R10040 R10041 R10045 R10046);

/* GETTING NEEDED CARE */
%adjust(R10029,age1824 age2534 age3544 age4554 R10063);
%adjust(R10033,age1824 age2534 age3544 age4554 R10063);
%comp(1,R10029,R10033);

/* GETTING NEEDED CARE QUICKLY */
%adjust(R10007,age1824 age2534 age3544 age4554 R10063);
%adjust(R10010,age1824 age2534 age3544 age4554 R10063);
%comp(2,R10007,R10010);

/* HOW WELL DOCTORS COMMUNICATE */
%adjust(R10021,age1824 age2534 age3544 age4554 R10063);
%adjust(R10022,age1824 age2534 age3544 age4554 R10063);
%adjust(R10023,age1824 age2534 age3544 age4554 R10063);
%adjust(R10024,age1824 age2534 age3544 age4554 R10063);
%comp(3,R10021,R10022,R10023,R10024);

/* CUSTOMER SERVICE */
%adjust(R10040,age1824 age2534 age3544 age4554 R10063);
%adjust(R10041,age1824 age2534 age3544 age4554 R10063);
%comp(4,R10040,R10041);

/* CLAIMS PROCESSING */
%adjust(R10045,age1824 age2534 age3544 age4554 R10063);
%adjust(R10046,age1824 age2534 age3544 age4554 R10063);
%comp(5,R10045,R10046);

/* RATING ALL HEALTH CARE: 0 - 10 */
%adjust(R10018,age1824 age2534 age3544 age4554 R10063);
%comp(6,R10018);

/* RATING OF HEALTH PLAN: 0 - 10 */
%adjust(R10047,age1824 age2534 age3544 age4554 R10063);
%comp(7,R10047);

/* RATING OF PERSONAL DR: 0 - 10 */
%adjust(R10027,age1824 age2534 age3544 age4554 R10063);
%comp(8,R10027);

/* SPECIALTY CARE */
%adjust(R10031,age1824 age2534 age3544 age4554 R10063);
%comp(9,R10031);

```


G.11.B BENCHMARK\BENCHA04.SAS - CONVERT THE BENCHMARK SCORES DATABASE INTO THE WEB LAYOUT - ANNUAL.

```

*****
*
* PROGRAM:  BENCHA04.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the Benchmark Scores Database into the WEB layout
*
* WRITTEN: 06/01/2000 BY KEITH RATHBUN
*
* INPUTS:  1) Benchmark data sets with adjusted scores
*           (COMPn_i.SD2 where n = composite number and i = group number)
*
* OUTPUT:  1) BENCHA04.SD2 - Combined Benchmark Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*             and composite data sets
*
* MODIFIED: 1) Dec 2000 by Keith Rathbun: Updated variable names for
*             Q1 2000 Survey. For the quarterly survey group 8 (all benes)
*             is being used as the benchmark for all groups (1-8). Thus,
*             this group is copied and output to each of the other 7 groups.
*             2) 01/23/2002 by Mike Scott: Updated variable names to be consistent
*             with 2000 survey.
*             4) 04/15/2002 by Mike Scott - Updated variable names for
*             Q1 2002 Survey.
*             5) 03/21/2003 by Mike Scott - Updated for 2003 survey.
*             6) 06/26/2003 by Mike Scott - Updated for Q2 2003.
*             7) 07/03/2003 by Mike Scott - Added TIMEPD variable to be set to the period
*             or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
*             setting to 'Composite'.
*             8) 07/18/2003 by Mike Scott - Added TIMEPD to FREQ.
*             9) 10/21/2003 by Mike Scott - Updated for Q3 2003.
*             10) 03/23/2004 by Mike Scott - Updated for Q1 2004.
*             11) 06/15/2004 by Regina Gramss - Updated for Q2 2004.
*             12) 09/2004 by Regina Gramss - Updated for Q3 2004.
*             13) 05/2005 by Regina Gramss - Updated for Q1 2005.
*             14) 10/2005 by Regina Gramss - Updated for Q3 2005.
*             15) 03/24/2006 by Keith Rathbun - Updated for Q2 FY 2006.
*             Added MACRO loop to process the 8 groups.
*             16) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3.
*             17) 12/18/2007 by Justin Oh - Updated BENTYPE composite year to 2006 Q4.
*             18) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1.
*             19) 04/05/2007 by Justin Oh - Updated LIBNAME IN2 to be used for purchase RC
programs.
*             20) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3.
*             21) 01/10/2008 by Keith Rathbun - Updated for Q1 FY 2008.
*             22) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1.
*             23) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2.
*             24) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3.
*             25) 04/10/2009 by Mike Rudacille - Changed variable names to reflect
*             modifications to beneficiary reports necessary for V4
*             26) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3.
*             27) 09/10/2010 by Mike Rudacille - Updated for 2010 annual report
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*    - BENCHA01.SAS - Extract Benchmark variables
*    - BENCHA02.SAS - Recode Benchmark variables
*    - BENCHA03.SAS - Construct Scores and SEMEAN datasets
*
* 2) The output file (BENCHA04.SAS7BDAT) will be run through the
*    MAKEHTML.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN "DATA";
LIBNAME IN2 "apredtest";
LIBNAME OUT "DATA";
LIBNAME LIBRARY "..\..\..\DATA\FMTLIB";

```

```

OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER;

*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\LOADWEB\LOADCAHQ.INC";

*****
*****
*
* Process Macro Input Parameters:
*
* 1) CNUM = Composite or rating variable number (1-10)
* 2) GNUM = Group number (1-8)
* 3) NVAR = Number of variables in the composite
* 4) VARS = List of individual variables for composite
* 5) SE = List of individual standard error variables
*
*
* _____
* Adjusted Score          Definitions
* Group Number
* _____
* 1. Prime enrollees      XINS_COV IN (1,2,6) AND H09004_R>=7
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H09004_R>=7
* 3. Enrollees w/civ PCM  XENR_PCM = 3          AND H09004_R>=7
* 4. Nonenrollees        XINS_COV IN (3,4,5)
* 5. Active duty          BFGROUPP = 1
* 6. Active duty dependents BFGROUPP = 2
* 7. Retirees and dependents BFGROUPP IN (3,4)
* 8. All Beneficiaries
*
*****;
%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
*****;
* Assign value for BENTYPE composite year
*****;
%LET YEAR = "2010"; * Note that this is based on Calendar Year here;

*****
* Convert benchmark scores datasets into WEB layout.
*****;
%IF &CNUM<6 %THEN %DO;

DATA INP;
  SET IN2.COMP&CNUM;
  WHERE X=&GNUM;

DATA INP;
  SET INP IN2.PROJERR&GNUM;
  RENAME SE=SESX;
RUN;
%END;
%ELSE %DO;

DATA INP;
  SET IN2.PROJERR&GNUM;
  RENAME SE=SESX;
RUN;
%END;

DATA COMP&CNUM._&Gnum;
  SET INP;
  IF _N_=1 THEN
  SET IN.COMP&CNUM._&GNUM;
  LENGTH MAJGRP $30;
  LENGTH REGION $25;
  LENGTH REGCAT $26;
  LENGTH BENTYPE $50;

```

```

LENGTH BENEFIT $34;
LENGTH TIMEPD $35;   ***MJS 07/03/03 Added line;

*****
* For now, assign SIG = 0
*****;
SIG = 0;

*****
* Assign major group
*****;
MAJGRP = PUT(&Gnum,MAJGRP.);

*****
* Assign Region and Regcat
*****;
REGION = "Benchmark";
REGCAT = "Benchmark";

*****
* Assign benefit and benefit type
*****;
IF &CNUM = 1 THEN BENEFIT = "Getting Needed Care";
ELSE IF &CNUM = 2 THEN BENEFIT = "Getting Care Quickly";
ELSE IF &CNUM = 3 THEN BENEFIT = "How Well Doctors Communicate";
ELSE IF &CNUM = 4 THEN BENEFIT = "Customer Service";
ELSE IF &CNUM = 5 THEN BENEFIT = "Claims Processing";
ELSE IF &CNUM = 6 THEN BENEFIT = "Health Care";
ELSE IF &CNUM = 7 THEN BENEFIT = "Health Plan";
ELSE IF &CNUM = 8 THEN BENEFIT = "Primary Care Manager";
ELSE IF &CNUM = 9 THEN BENEFIT = "Specialty Care";

BENTYPE = "Composite";   ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
TIMEPD = PUT(&YEAR,$BENTYPF.);   ***MJS 07/03/03 Added;
IF &CNUM<6 THEN DO;
  IF X=&GNUM THEN DO;
*****
* Assign composite score and SEMEAN
*****;
  SCORE = TOTADJ;
  SEMEAN = SQRT(SDE**2+SESX**2);

*****
* Output composite score record for each REGION
*****;
  OUTPUT;
  END;
  END;
*****
* Now, output the individual score records
*****;
IF &NVAR GT 1|&CNUM>5 THEN DO;
  ARRAY ITEMS &VARS;
  ARRAY SE &SE;
  LENGTH NAME $8;
  DO I = 1 TO DIM(ITEMS); DROP I;
    CALL VNAME(ITEMS(I),NAME);
    NAME = SUBSTR(NAME,1,6);
    SCORE = ITEMS(I);
    SEMEAN = SQRT(SE(I)**2+SESX**2);
    IF &NVAR GT 1 THEN
      BENTYPE = PUT(NAME,$BENTYPF.);
      TIMEPD = PUT(&YEAR,$BENTYPF.);   ***MJS 07/03/03 Added;
      IF COMPRESS(UPCASE(NAME))=COMPRESS(UPCASE(VAR)) THEN OUTPUT;
    END;
  END;
END;

KEEP MAJGRP
REGION
REGCAT
BENTYPE
BENEFIT
TIMEPD /*MJS 07/03/03 Added*/
SEMEAN

```

```

SCORE
SIG
;
RUN;

%MEND;

*****
*****
* Process each of the 8 Groups.
*****
*****;
%MACRO DOIT;
%DO I = 1 %TO 8;
*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=&I, NVAR=2, VARS=R10029_&I R10033_&I,
SE=S_R10029 S_R10033);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=&I, NVAR=2, VARS=R10007_&I R10010_&I,
SE=S_R10007 S_R10010);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=&I, NVAR=4, VARS=R10021_&I R10022_&I R10023_&I R10024_&I,
SE=S_R10021 S_R10022 S_R10023 S_R10024);

*****
* COMPOSITE # 4.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=4, GNUM=&I, NVAR=2, VARS=R10040_&I R10041_&I,
SE=S_R10040 S_R10041);

*****
* COMPOSITE # 5.
* CLAIMS PROCESSING.
*****;
%PROCESS(CNUM=5, GNUM=&I, NVAR=2, VARS=R10045_&I R10046_&I,
SE=S_R10045 S_R10046);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=&I, NVAR=1, VARS=R10018_&I, SE=S_R10018);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R10047_&I, SE=S_R10047);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R10027_&I, SE=S_R10027);

*****
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R10031_&I, SE=S_R10031);
%END;
%MEND DOIT;

```

```

%DOIT;

*****
*****
* STACK up all of the files into one final output dataset.
*****
*****;
/*Comp4 was from questions 40 and 41 and there is no 2007 equivalent*/
DATA OUT.BENCHA04;
  SET COMP1_1 COMP1_2 COMP1_3 COMP1_4 COMP1_5 COMP1_6 COMP1_7 COMP1_8
      COMP2_1 COMP2_2 COMP2_3 COMP2_4 COMP2_5 COMP2_6 COMP2_7 COMP2_8
      COMP3_1 COMP3_2 COMP3_3 COMP3_4 COMP3_5 COMP3_6 COMP3_7 COMP3_8
      COMP4_1 COMP4_2 COMP4_3 COMP4_4 COMP4_5 COMP4_6 COMP4_7 COMP4_8
      COMP5_1 COMP5_2 COMP5_3 COMP5_4 COMP5_5 COMP5_6 COMP5_7 COMP5_8
      COMP6_1 COMP6_2 COMP6_3 COMP6_4 COMP6_5 COMP6_6 COMP6_7 COMP6_8
      COMP7_1 COMP7_2 COMP7_3 COMP7_4 COMP7_5 COMP7_6 COMP7_7 COMP7_8
      COMP8_1 COMP8_2 COMP8_3 COMP8_4 COMP8_5 COMP8_6 COMP8_7 COMP8_8
      COMP9_1 COMP9_2 COMP9_3 COMP9_4 COMP9_5 COMP9_6 COMP9_7 COMP9_8
  ;
  IF SCORE = . THEN DELETE;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: BENCHA04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHA04.SAS7BDAT - Combined Benchmark Scores Database in WEB layout";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES TIMEPD BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;

```

G.12.A REPORTCARDS\MPR_ADULT2010\PRVCOMP.SAS - CALCULATE PREVENTIVE CARE COMPOSITE SCORES - ANNUAL.

```

*****
* Project: DoD Reporting and Analysis 6077-410
* Program: PRVCOMPQ.SAS
* Author: Chris Rankin
* Date: 12/22/2000
* Modified: 4/19/2001 By Keith Rathbun: Restrict population to
* xins_cov in(1,2,3,6). Use POSTSTR instead of
* adj_cell.
* Modified: 10/25/01 By Daniele Beahm: Because no poststratification
* was done for q3 2000, changed POSTSTR back to ADJ_CELL
* 04/09/02 modified macros the first three macros to create
* temporary datasets (instead of writing permanent datasets)
* 07/15/02 By Mike Scott: Changed HCS021 to HCS022 for Q2 2002.
* 01/12/03 By Mike Scott: Changed ADJ_CELL to COM_SAMP.
* 03/21/03 By Mike Scott: Changed HCS024 to HCS031 for Q2 2002.
* 04/01/03 By Mike Scott: Replaced HP_FLU with HP_CHOL.
* 04/30/03 By Mike Scott: Changed COM_SAMP to ADJ_CELL. Changed
* CMPNUM1 from 4 to 5 and CMPNUM2 from 4 to 3.
* 06/13/03 By Eric Schone. Changed composite mean & std err calculations
* to use weights from 2000 input data.
* 07/23/03 By Mike Scott: Removed ..\PROGRAMS\ from INCLUDE.
* 10/21/03 By Mike Scott: Updated for Q3 2003.
* 01/07/04 By Mike Scott: Updated for Q4 2003.
* 02/02/04 By Mike Scott: Set PRVVAR6, PRVVAR7, and PRVVAR8 in DATA NORMDATA
* to H04023, H04020, and H04031.
* 03/24/04 By Mike Scott: Updated for Q1 2004.
* 04/09/04 By Keith Rathbun: Added Service Affiliation variables to
* accomodate the consumer watch.
* 06/22/04 By Regina Gramss: Updated for Q2 2004.
* 09/2004 By Regina Gramss: Updated for Q3 2004, to use XTNEXREG
* vs. XREGION
* 01/2005 By Regina Gramss: Updated to create "Last USA_q" for
* Q4 2004, replace XTNEXREG with XSERVREG
* 04/2005 By Regina Gramss: Updated for Q1 2005 (update 2004 field names)
* 07/2005 By Regina Gramss: updated for Q2 2005
* 10/2005 By Regina Gramss: Updated for Q3 2005
* 12/2005 By Regina Gramss: Updated for Q4 2005
* 03/24/2006 By Keith Rathbun: Updated for Q2 FY 2006. Changed reference
* to ADJ_CELL in 2006 data to be STRATUM.
* 07/2006 By Justin Oh: updated for Q2 FY 2006
* 08/22/2006 By Justin Oh
* Changed XSERVREG for Overseas
* Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
* IF XINS_COV IN (3) THEN GROUP4 = 1
* Since only XINS_COV IN (1,2,3,6) is kept.
* Create XOUSA for 2005 data.
* Added XREGION in the keep statement for NORMDATA.
* 10/04/2006 By Justin Oh Updated %LET INDATA and YRDATA.
* 11/15/2006 By Justin Oh Added FIELDAGE in 4 keep statements
* 12/22/2006 By Justin Oh Updated %LET INDATA and YRDATA HCS071_1.
* 04/05/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS072_1.
* 04/05/2007 By Justin Oh Added conditions for RC types
* ReportCards OR PurchasedReportCards.
* 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
* both Norm and Quarter datasets.
* 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
* Groups 1,3, and 4 for new reservists logic.
* 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
* Groups All, 4, 5, and 6.
* 09/04/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS074_1.
* 01/10/2008 By Keith Rathbun, Updated %LET INDATA and YRDATA HCS081_1.
* Also changed H07 variable names to be H08 to match 2008 survey
* 04/11/2008 By Justin Oh Updated %LET INDATA and YRDATA HCS082_1.
* 06/13/2008 By Keith Rathbun Updated %LET INDATA and YRDATA HCS083_1.
* 04/20/2009 By Mike Rudacille Changed RCTYPE and certain variable names for
* transition to V4 questionnaire.
* 06/22/2009 By Keith Rathbun Updated %LET INDATA and YRDATA HCS093_1.
* 09/30/2009 By Mike Rudacille Updated %LET INDATA and YRDATA HCS094_1.
* 09/10/2010 By Mike Rudacille, Updated for 2010 annual report
* 11/02/2010 By Mike Rudacille, Changed input dataset from HCS10A_1 to HCS10A_2.

```

```

*
* Purpose: Calculate MPR Preventive Care Composites
* Input: HCSyyq_1.sas7bdat
* Output: RFINAL.sas7bdat
*         CFINAL.sas7bdat
*         MFINAL.sas7bdat
*         SFINAL.sas7bdat
*
* Include
* Files: LOADCAHPQ.INC
* Notes: Next program is Loadmprq.sas
*
* ***CHECK PARAMETER ASSIGNMENTS***
*****;

OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 MLOGIC MPRINT
        NOFMterr COMPRESS=YES;

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards ****/
%LET RCTYPE = ReportCards;

LIBNAME IN          "..\..\..\Data\";
LIBNAME INNORM      V612 "..\..\..\2005\DATA";
LIBNAME CACLIB      "..\CAHPS_Adult2010\Data";
LIBNAME OUT         ".";
LIBNAME LIBRARY     "..\..\..\DATA\FMTLIB";

%LET WGT=CFWT;
%LET NORMWGT = CFWT;
%LET NORMDAT = HCS05A_1;

%LET DEBUG=N;      /** Set to Y for Debug print of datasets **/
%LET INDATA=HCS10A_2;

%LET YRDATA=HCS10;
%LET YR=10;

/***** The following parameters are used in the Variance *****/
/***** calcuation macro for region and catchment area *****/

%LET GRPNUM=8;      /** number of groups          **/
%LET COMPNUM=7;     /** number of variables      **/ /* RSG - 04/2005 changed from 8 to 7
(eliminate cholesterol*/
%LET REGNUM=15;     /** number of regions          **/ /* RSG - 01/2005 CHANGED TO FIT THE 16
CATEGORIES OF XSERVREG */
                                                    /* JSO 08/24/2006 (16 TO 15) Changed
Overseas Regions*/
%LET CATCHNUM=9999; /** number of catchment areas **/

%LET CMPNUM1=4;     /** number of variables in first composite **/ /*RSG 04/2005 Changed
CMPNUM1 from 5 to 4*/
%LET CMPNUM2=3;     /** number of variables in second composite **/ /*MJS 04/30/03 Changed
CMPNUM2 from 4 to 3*/

%LET COMPCNT=2;     /** number of composites          **/

**** set up benchmarks for preventive services ;
**** note -- these are the hp 2000 goals ;

%LET GOALVAR1= .90; /** HP Goal for prenatal care          **/
%LET GOALVAR2= .70; /** HP Goal for Mammography          **/
%LET GOALVAR3= .90; /** HP Goal for Papsmear          **/
%LET GOALVAR4= .95; /** HP Goal for Blood Pressure check **/
%LET GOALVAR5= .90; /** access goals          **/ /*04/2005 - RSG: DELETED
CHOLESTEROLE GOAL*/
%LET GOALVAR6= .90;
%LET GOALVAR7= .98;

%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";

*****;
* Beneficiary group note
* Eight groups          Definitions
* _____;

```

```

* 1. Prime enrollees           XINS_COV IN (1,2,6) AND H09004>=2
* 2. Enrollees w/mil PCM      XENR_PCM IN (1,2,6) AND H09004>=2
* 3. Enrollees w/civ PCM      XENR_PCM IN (3,7)   AND H09004>=2
* 4. Nonenrollees            XINS_COV IN (3) /*JSO 08/24/2006, Deleted 4,5*/
* 5. Active duty              XBNFGRP = 1
* 6. Active duty dependents   XBNFGRP = 2
* 7. Retirees                 XBNFGRP IN (3,4)
* 8. All beneficiaries        ALL
*****;

*-----
* Add cacsmp1 from group8.sd2 dataset - CDR 2/05/2004
*-----;

PROC SORT DATA=CACLIB.GROUP8 OUT=GROUP8(KEEP=MPRID CACSMPL XSERVIND);
  BY MPRID;
RUN;

PROC SORT DATA=IN.&INDATA(KEEP=MPRID XINS_COV HP_BP HP_MAMOG
  HP_PAP HP_PRNTL /*ES 02/04/04*/
  XTNEXREG XENR_PCM XBNFGRP ENBGSMP1 &WGT FIELDAGE DBENCAT
  STRATUM H10010 H10007 H10004 H10003 SERVAFF XREGION)
  OUT= &YRDATA; BY MPRID;
RUN;

/**** note -- output all data to a single dataset for macro */
/**** call */
/**** MACROS are no longer called for catchment areas */

/* 08/24/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
*LIBNAME LIBRARY '..\..\..\..\2005\Data\fmtlib';

DATA NORMDATA(KEEP=XTNEXREG XSERVREG &WGT PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
  DENV1-DENV&COMPNUM XSERVAFF FIELDAGE);
  /* 11/15/2006 JSO Added FIELDAGE in the keep statement */

  set INNORM.&NORMDAT(KEEP=MPRID XINS_COV HP_BP HP_MAMOG HP_PAP HP_PRNTL XTNEXREG
  XENR_PCM XBNFGRP ENBGSMP1 &NORMWGT ADJ_CELL DBENCAT
  H05022 H05019 H05030 H05007 H05006 XCATCH SERVAFF XREGION FIELDAGE);
  /* 08/24/2006 JSO Added XREGION in the keep statement to get XOUSA */
  /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
  /* 05/10/2007 JSO Added H05006, DBENCAT in the keep statement */

*****
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
*****;

/*RSG 02/2005 Added codes to define XTNEXREG & XSERVAFF*/

IF SERVAFF = 'A' THEN XSERVAFF = 1;      *Army;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; *Navy;
ELSE XSERVAFF = 4;                       *Other/unknown;

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H05006 = 3 THEN DO;
  NXNS_COV = 3;
  XENR_PCM = .;
END;

PRVVAR1=HP_PRNTL; /*** prenatal care **/
PRVVAR2=HP_MAMOG; /*** mammography **/
PRVVAR3=HP_PAP; /*** papsmear **/

```



```

PRVVAR4=HP_BP;           /** blood pressure **/
PRVVAR5=H05022;         /** access var 1 **/
PRVVAR6=H05019;         /** access var 2 **/
PRVVAR7=H05030;         /** access var 3 **/

/**** set up numerator and denominator for proportions ****/

ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
ARRAY DENOM(*) DENV1-DENV&COMPNUM;

DO I = 1 TO &COMPNUM;
  IF I LE &CMPNUM1 THEN DO;
    IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
    ELSE NUMER(I)=0;
    IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
  END;
  ELSE IF I GT &CMPNUM1 THEN DO;
    IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
    ELSE NUMER(I)=0;
    IF PRVVAR(I) > 0 THEN DENOM(I)=1;
  END;
END;
DROP I;
DENV4=1;

/*RSG 02/2005 Added codes to define XSERVREG CACSMPL*/

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO;
  IF XREGION = 13 THEN XSERVREG = 13;
  ELSE IF XREGION = 14 THEN XSERVREG = 14;
  ELSE IF XREGION = 15 THEN XSERVREG = 15;
END;

RENAME XCATCH=CACSMPL &NORMWGT = &WGT;
run;

PROC SORT DATA=CACLIB.GROUP8 OUT=GROUP8(KEEP=MPRID CACSMPL XSERVIND);
  BY MPRID;
RUN;

/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
*LIBNAME LIBRARY "..\..\Data\afinal\fmtlib";

DATA &YRDATA(KEEP=BGROUP MHS USA XSERVAFF CACSMPL &WGT. TMP_CELL
  PRVVAR1-PRVVAR&COMPNUM. NUM&YR.V1-NUM&YR.V&COMPNUM.
  DEN&YR.V1-DEN&YR.V&COMPNUM IN_GROUP8
  XTNEXREG XSERVREG XSERVIND);
  /* 11/15/2006 JSO Added FIELDAGE in the keep statement */

MERGE &YRDATA.(IN=IN_1) GROUP8(IN=IN_2); /*CDR 2/05/2004 */

```

```

BY MPRID;
IF IN_1;
IF IN_2=1 THEN IN_GROUP8=1;
ELSE IN_GROUP8=0;

*****
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
*****;
IF SERVAFF = 'A' THEN XSERVAFF = 1;      *Army;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;  *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;  *Navy;
ELSE XSERVAFF = 4;                       *Other/unknown;

CELLP = 1;
LENGTH TMP_CELL 8;
TMP_CELL = STRATUM; /* Make STRATUM a numeric variable */

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 05/14/2007 added for reservists logic*/
/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
    NXNS_COV = 3;
    XENR_PCM = .;
END;

PRVVAR1=HP_PRNTL; /* prenatal care */
PRVVAR2=HP_MAMOG; /* mammography */
PRVVAR3=HP_PAP; /* papsmear */
PRVVAR4=HP_BP; /* blood pressure */
/*RSG 04/2005 - delete cholesterol, renumber PRVVAR below*/
PRVVAR5=H10010; /* access var 1 */
PRVVAR6=H10007; /* access var 2 */
* PRVVAR7=H09030A; /* access var 3 */
/* MER temporary workaround 06/30/09 */
PRVVAR7=2;

/**** set up numerator and denominator for proportions ****/

ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
ARRAY NUMER(*) NUM&YR.V1-NUM&YR.V&COMPNUM;
ARRAY DENOM(*) DEN&YR.V1-DEN&YR.V&COMPNUM;

DO I = 1 TO &COMPNUM;
    IF I LE &CMPNUM1 THEN DO;
        IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
        ELSE NUMER(I)=0;
        IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
    END;
    ELSE IF I GT &CMPNUM1 THEN DO;
        IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
        ELSE NUMER(I)=0;
        IF PRVVAR(I) > 0 THEN DENOM(I)=1;
    END;
END;
DROP I;
DENV4=1;

MHS= 1; /* set up dummy for MHS-- include all observations */

/* 08/22/2006, JSO Create XOUSA for 2005 data */

IF XTNEXREG = 1 THEN DO;

```

```

        IF XSERVAFF = 1 THEN XSERVREG = 1;
        ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
        ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
        ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 5;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
    ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 9;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
    ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO;
    IF XREGION = 13 THEN XSERVREG = 13;
    ELSE IF XREGION = 14 THEN XSERVREG = 14;
    ELSE IF XREGION = 15 THEN XSERVREG = 15;
END;

IF XSERVREG = . THEN DELETE; /* MER 11/10/10 - Deletes records with imputed TNEXREG = 'O' */
                             /* and missing XOCONUS. (Only applies to CACSMPL = 9904) */

*****
* Assign indicator of USA based on XTNEXREG. USA stands for
* Contential United States it but includes both Alaska and Hawaii.
* 1/16/09 Changed USA to USA.
*****
IF XTNEXREG IN (1,2,3) THEN USA=1; /*RSG 01/2005 OVERALL USA*/

ELSE IF XTNEXREG = 4 THEN USA=2;

* Prime enrollees *;

IF (NXNS_COV IN (1,2,6) AND H10004>=2) THEN DO;
    BGROUP=1;
    OUTPUT;
END;

* Enrollees with military PCMs *;
IF (XENR_PCM IN (1,2,6) AND H10004>=2) THEN DO; /*ES 02/04/04*/
    BGROUP=2;
    OUTPUT;
END;

* Enrollees with civilian PCMs *; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    (XENR_PCM IN (3,7) AND H10004>=2) THEN DO;
    BGROUP=3;
    OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    ((XENR_PCM IN (3) AND H10004>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added
9*/
    BGROUP=3;
    OUTPUT;
END;

* Nonenrollees *;

IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
    BGROUP=4; /*JSO 07/30/2007, Added 9*/
    OUTPUT;
END;

* Active duty *;

```

```

IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
  BGROUP=5;          /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;

* Active duty dependents  *;

IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
  BGROUP=6;          /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;

* Retirees  *;

IF XBNFGRP IN (3,4) THEN DO;
  BGROUP=7;
  OUTPUT;
END;

* All beneficiaries  *;

  BGROUP=8;
  OUTPUT;
RUN;

PROC FREQ DATA=&YRDATA;
  TABLES IN_GROUP8/MISSING LIST;
  TITLE "OVERLAP BETWEEN &INDATA AND GROUP8 DATA";
RUN;

**** Next, check catchment areas for requisite number of observations ;
**** for the macro calls (exclude cacsmpl w/ <2 obs) ;
**** also, keep list of region/catchment area combinations ;

PROC FREQ DATA=&YRDATA;
  TABLE BGROUP*MHS*USA*XSERVind*CACSMPL/MISSING LIST
  OUT=OBSCNT(DROP=PERCENT);
RUN;

PROC SORT DATA=&YRDATA; BY BGROUP MHS USA XSERVind CACSMPL;
RUN;

DATA HCSDB /*FAILED*/;
  MERGE &YRDATA(IN=IN_ALL) OBSCNT(IN=IN_OBS);
  BY BGROUP MHS USA XSERVind CACSMPL;
  IF COUNT < 2 THEN DO;
    PUT "Failed obs # criterion: XSERVREG=" XSERVREG "CACSMPL=" CACSMPL;
    *OUTPUT FAILED;
  END;
* ELSE OUTPUT HCSDB;
RUN;

DATA OBSCNT;
  SET OBSCNT;
  RENAME BGROUP=GROUP;
RUN;

PROC SORT NODUPKEY DATA=OBSCNT; BY GROUP CACSMPL;
RUN;

*****
*** First, calculate standard errors and create ***
*** a file for each analytical unit ***
*****;

PROC SORT DATA=HCSDB; BY TMP_CELL;
RUN;

```

```

*****
**** Sudaan macro to calculate standard errors ****
**** there are three output datasets created ****
**** (XTNEXREG, XSERVREG, MHS, XSERVAFF) ****
**** Note: 7/10/2000 use USA for MHS ****
**** Note: there are 8 variables and 8 groups ****
**** Note: 1/16/09 Changed USA to USA ****
*****;

%MACRO A_SUDAAN(TABLEVAR);

*** set the number of levels in the proc descript ***;
*** for region or catchment ***;

%IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
  %LET ENDNUM=4;
  %LET PREF=S;          /** dataset prefix for service affiliation data **/
%END;
%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
  %LET ENDNUM=&REGNUM;
  %LET PREF=R;          /** dataset prefix for region data **/
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %LET PREF=C;          /** dataset prefix for catchment
area data **/

%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
  %LET ENDNUM=4;          /** RSG 01/2005 Change level of USA to 4 **/
  %LET PREF=M;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=CACSMPL %THEN %DO;
  %LET ENDNUM=&CATCHNUM;
  %LET PREF=D;          /** dataset prefix for catchment area data **/
%END;

%DO I=1 %TO &GRPNUM;          /** 8 groups **/

  %DO J=1 %TO &COMPNUM;          /** 7 variables **/

    DATA INDATA&I.&J(KEEP=&WGT MHS USA XTNEXREG XSERVREG XSERVAFF
      CACSMPL NUM&YR.V&J DEN&YR.V&J TMP_CELL);

    SET HCSDB;
    WHERE XSERVREG > 0 AND BGROUP=&I AND DEN&YR.V&J > 0;
    %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
      IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE;          /*RSG 01/2005 Delete USA greater
than 4 which are not USA */
    %END;
    %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
      IF USA NE 1 THEN DELETE;
    %END;
    %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
      IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
    %END;
  RUN;

*** Calculate values for regions, catchment areas ****;

%IF %UPCASE(&TABLEVAR) NE USA %THEN %DO;

  PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
    WEIGHT &WGT;
    SETENV DECWIDTH=4;
    NEST TMP_CELL / MISSUNIT;
    VAR NUM&YR.V&J;
    TABLES &TABLEVAR;
    SUBGROUP &TABLEVAR;
    LEVELS &ENDNUM;
    OUTPUT SEMEAN/ TABLECELL=DEFAULT REPLACE
    FILENAME=&PREF.GRP&I.V&J;
  RUN;

%END;
%ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;

```

```

**** No tables, levels, or subgroups needed ****;

PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
WEIGHT &WGT;
SETENV DECWIDTH=4;
NEST TMP_CELL / MISSUNIT;
VAR NUM&YR.V&J;
OUTPUT SEMEAN/ TABLECELL=DEFAULT REPLACE
FILENAME=&PREF.GRP&I.V&J;
RUN;

%END;

***** first, put all variables into one dataset for each group *****;

DATA &PREF.GRP&I.V&J;
SET &PREF.GRP&I.V&J;
IF SEMEAN NE .;
MHS=1;
%IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
USA=1;
%END;
RUN;

%IF &J=1 %THEN %DO;
DATA &PREF.SEGRP&I;
SET &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
GROUP=&I;
IF SEMEAN NE .;
RENAME SEMEAN = SERR&YR.V&J;
RUN;
%END;
%ELSE %DO;
DATA &PREF.SEGRP&I;
MERGE &PREF.SEGRP&I &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
BY &TABLEVAR;
GROUP=&I;
RENAME SEMEAN = SERR&YR.V&J;
RUN;
%END;
%END;

***** Put all data into one dataset *****
***** Note: changed output dataset *****
***** to include group *****;

%IF &I=1 %THEN %DO;

DATA &PREF.SERR;
SET &PREF.SEGRP&I;
KEEP GROUP &TABLEVAR SERR&YR.V1-SERR&YR.V&COMPNUM;
RUN;
%END;
%ELSE %DO;

DATA &PREF.SERR;
SET &PREF.SERR
&PREF.SEGRP&I;
RUN;
%END;

***** DEBUG PRINT *****;

%IF &DEBUG=Y %THEN %DO;
%IF &I=&GRPNUM AND &PREF=R %THEN %DO;
PROC PRINT DATA=&PREF.SERR;
VAR &TABLEVAR GROUP SERR&YR.V1-SERR&YR.V&COMPNUM;
RUN;
%END;
%END;

%END;

%MEND A_SUDAAN;

```

```

%A_SUDAAN (USA);
%A_SUDAAN (XSERVAFF);
%A_SUDAAN (XSERVREG);
%A_SUDAAN (XTNEXREG);
%A_SUDAAN (CACSMPL);

*****
*** Next, calculate correlation coefficients          ***
*** and create a file for each analytical unit      ***
*****;

%MACRO GETCORR(BYVAR);

%IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
%ELSE %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
%ELSE %IF %UPCASE(&BYVAR)=CACSMPL %THEN %LET PREF=D;

PROC SORT DATA=HCSDB; BY &BYVAR;
RUN;

%DO I = 1 %TO &GRPNUM;

PROC CORR NOPRINT DATA=HCSDB OUTP=&PREF.CORRC&I;
%IF %UPCASE(&BYVAR)=XSERVAFF %THEN %DO;
WHERE BGROUP=&I AND 1 <= XSERVAFF <= 4;          /** RSG 0/2005 Change USA values to keep
to be between 1-4 **/
%END;
%IF %UPCASE(&BYVAR)=USA %THEN %DO;
WHERE BGROUP=&I AND USA = 1;
%END;
%ELSE %DO;
WHERE BGROUP=&I;
%END;
BY &BYVAR;
VAR PRVVAR1-PRVVAR&COMPNUM;
WITH PRVVAR1-PRVVAR&COMPNUM;
WEIGHT &WGT;
RUN;

DATA &PREF.CORRC&I;
SET &PREF.CORRC&I;
WHERE _TYPE_="CORR";
GROUP=&I;
ARRAY OLD PRVVAR1-PRVVAR&COMPNUM;
ARRAY NEW COR&YR.V1-COR&YR.V&COMPNUM;
DO J = 1 TO &COMPNUM;
NEW(J)=OLD(J);
END;
DROP J PRVVAR1-PRVVAR&COMPNUM;
RUN;

%IF &I=1 %THEN %DO;

DATA &PREF.CORRC;
SET &PREF.CORRC&I;
RUN;

%END;
%ELSE %DO;

DATA &PREF.CORRC;
SET &PREF.CORRC
&PREF.CORRC&I;
RUN;

%END;
%IF &DEBUG=Y %THEN %DO;
%IF &I=&COMPNUM AND &PREF=R %THEN %DO;
PROC PRINT DATA=&PREF.CORRC;
WHERE GROUP=1;
RUN;

```

```

        %END;
    %END;
%END;

*** Flatten dataset(for each region, condense matrix to one row) ***;

%DO K=1 %TO &COMPNUM;

    DATA &PREF.CORR&K;
    SET &PREF.CORRC;
    WHERE _NAME_ = "PRVVAR&K";
    ARRAY CORR (&COMPNUM) COR&YR.V1-COR&YR.V&COMPNUM;
    ARRAY CORR&K (&COMPNUM) COR&YR.V&K.1-COR&YR.V&K.&COMPNUM;
    DO L=1 TO &COMPNUM;
        CORR&K(L)=CORR(L);
    END;
    KEEP GROUP &BYVAR COR&YR.V&K.1-COR&YR.V&K.&COMPNUM;
    RUN;
    %IF &K=1 %THEN %DO;
        DATA &PREF.CORR;
        SET &PREF.CORR&K;
        RUN;
    %END;
    %ELSE %DO;
        DATA &PREF.CORR;
        MERGE &PREF.CORR(IN=IN_1) &PREF.CORR&K(IN=IN_2);
        BY GROUP &BYVAR;
        RUN;
    %END;
    %IF &DEBUG=Y %THEN %DO;
        %IF &PREF=R %THEN %DO;
            PROC PRINT DATA=&PREF.CORR;
            WHERE GROUP=1;
            RUN;
        %END;
    %END;
%END;

%MEND GETCORR;

%GETCORR(USA);
%GETCORR(XSERVAFF);
%GETCORR(XSERVREG);
%GETCORR(XTNEXREG);
%GETCORR(CACSMPL);

*****
*** Macro to derive composites for each          *****
*** beneficiary group, level                    *****
*** output one dataset for each group          *****
*****;

%MACRO GETPROP(BYVAR);

    %LET START = %EVAL(&CMPNUM1+1);

    %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
    %ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
    %ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
    %ELSE %IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
    %ELSE %IF %UPCASE(&BYVAR)=CACSMPL %THEN %LET PREF=D;

    PROC MEANS NWAY NOPRINT DATA=HCSDB;
        CLASS BGROUP &BYVAR;
        VAR NUM&YR.V1-NUM&YR.V&COMPNUM
            DEN&YR.V1-DEN&YR.V&COMPNUM;
        WEIGHT &WGT;
        OUTPUT OUT= &PREF.CMPSUM(DROP = _TYPE_)
            SUM = ;
    RUN;
    PROC MEANS NWAY NOPRINT DATA=normdata;
    * CLASS &BYVAR;
    VAR
        DENV1-DENV&COMPNUM;

```



```

WEIGHT &wgt.;
OUTPUT OUT= &PREF.norms(DROP = _TYPE_)
SUM = nrmv1-nrmv&compnum;
RUN;

PROC MEANS NWAY NOPRINT DATA=HCSDB;
CLASS BGROUP &BYVAR;
VAR DEN&YR.V1-DEN&YR.V&COMPNUM;
OUTPUT OUT=&PREF.DGFR(DROP=_TYPE_ _FREQ_)
SUM= NOBS&YR.V1-NOBS&YR.V&COMPNUM;
RUN;

data &pref.cmpsum;

if _n_=1 then set &pref.norms;
set &pref.cmpsum;
proc sort data=&pref.cmpsum; by bgroup &byvar;
DATA &PREF.CMPSUM;
MERGE &PREF.CMPSUM(RENAME=( _FREQ_ =N_OBS&YR.))
&PREF.DGFR;
BY BGROUP &BYVAR;
%IF &PREF=M %THEN %DO; /** added 7/10/2000 **/
WHERE 1 <= XSERVAFF <= 4; /** RSG 01/2005 Change USA values to keep to be
between 1-4 **/
%END;
%ELSE %IF &PREF=C %THEN %DO;
WHERE USA = 1;
%END;

**** set up group variable **;

RENAME BGROUP=GROUP;;

**** set up proportions, and composites **;

ARRAY PROPORT PROP&YR.V1-PROP&YR.V&COMPNUM;
ARRAY NUMER NUM&YR.V1-NUM&YR.V&COMPNUM;
ARRAY DENOM DEN&YR.V1-DEN&YR.V&COMPNUM;
array norm nrmv1-nrmv&compnum;

DO J=1 TO DIM(PROPORT);
PROPORT(J) = NUMER(J)/DENOM(J);
END;
DROP J;

**** composites **;

** added goalvars to datastep, 5/30/2000 ;
** taken out of temporary array for variance calculations;
** and used, kept as variables ;

GOALVAR1=&GOALVAR1;
GOALVAR2=&GOALVAR2;
GOALVAR3=&GOALVAR3;
GOALVAR4=&GOALVAR4;
GOALVAR5=&GOALVAR5;
GOALVAR6=&GOALVAR6;
GOALVAR7=&GOALVAR7;
/*RSG 04/2005 - delete goal8 since chol eliminated*/

** the weight for preventive service is defined as the ;
** proportion of the denominator for that service to the ;
;
** composite denominator ;
** healthy people 2000 goals -- used as benchmarks ;

ARRAY SVCWGT(&COMPNUM) WGT&YR.V1-WGT&YR.V&COMPNUM;
ARRAY BMARK(&COMPNUM) GOALVAR1-GOALVAR&COMPNUM;
ARRAY WGTBMARK(&COMPNUM) WTD&YR.V1-WTD&YR.V&COMPNUM;
array comp(&compnum) cmp&yr.v1-cmp&yr.v&compnum;
cpden1=sum(of nrmv1-nrmv&compnum1);
cpden2=sum(of nrmv&start-nrmv&compnum);
DO K = 1 TO &COMPNUM;

```

```

        IF K < &START THEN SVCWGT(K)= norm(K)/CPDEN1;
        ELSE SVCWGT(K) = norm(K)/CPDEN2;
        WGTBMARK(K) = SVCWGT(K)*BMARK(K);
        comp(k)=svcwgt(k)*proport(k);
    END;
    DROP K;
    CP&YR.BMK1=SUM(OF WTD&YR.V1-WTD&YR.V&COMPNUM1);
    CP&YR.BMK2=SUM(OF WTD&YR.V&START-WTD&YR.V&COMPNUM);
    comp&yr.1=sum(of cmp&yr.v1-cmp&yr.v&compnum1);
    comp&yr.2=sum(of cmp&yr.v&start-cmp&yr.v&compnum);
    DROP WGT&YR.V1-WGT&YR.V&COMPNUM WTD&YR.V1-WTD&YR.V&COMPNUM
        NUM&YR.V1-NUM&YR.V&COMPNUM;

RUN;

%IF &DEBUG=Y AND &PREF=R %THEN %DO;
    PROC PRINT DATA=&PREF.CMPSUM; /* print out final dataset */
    RUN; /* for region to check */
%END;

%MEND GETPROP;

%GETPROP(USA);
%GETPROP(XSERVAFF);
%GETprop(XSERVREG);
%GETPROP(XTNEXREG);
%GETProp(CACSMPL);

*****
** since MHS benchmarks will be displayed ****
** set up adjustment factor to apply to ****
** each analytical unit's composite benchmarks ****
*****;

DATA ADJUST;
    SET MCMPSUM(KEEP=GROUP CP&YR.BMK1 CP&YR.BMK2);
    WHERE GROUP=8; /* use all beneficiaries */
    RENAME CP&YR.BMK1=MHS&YR.BM1;
    RENAME CP&YR.BMK2=MHS&YR.BM2;
    DROP GROUP;
RUN;

*****
*** Macro to merge 3 datasets for each *****
*** called by analytical unit *****
*** output final dataset for *****
*** XSERVAFF, XSERVREG, XTNEXREG, MHS (USA) *****
*****;

PROC FORMAT; /*RSG 02/2005 - hardcoded in prog to have caps vs format in loadcahq.inc*/
    VALUE REGIONF
        0 = "USA MHS "
        1 = "NORTH"
        2 = "SOUTH"
        3 = "WEST"
        4 = "OVERSEAS"
    ;
%MACRO GETSIG(BYVAR);

    %LET START = %EVAL(&CMPNUM1+1);
    %LET NEXT = %EVAL(&CMPNUM1+2);

    %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
    %ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
    %ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
    %ELSE %IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
    %ELSE %IF %UPCASE(&BYVAR)=CACSMPL %THEN %LET PREF=D;

DATA OUT.&PREF.FINAL (KEEP= MAJGRP REGION REGCAT GOALVAR1-GOALVAR&COMPNUM
    SIG&YR.V1-SIG&YR.V&COMPNUM SCOR&YR.V1-SCOR&YR.V&COMPNUM
    CP&YR.SIG1-CP&YR.SIG&COMPCNT CP&YR.1SE CP&YR.2SE

```

```

CP&YR.BMK1-CP&YR.BMK&COMPNT
SERR&YR.V1-SERR&YR.V&COMPNUM CP&YR.1SE CP&YR.2SE
COMP&YR.1 COMP&YR.2 PROP&YR.V1-PROP&YR.V&COMPNUM
DF&YR.SCR1-DF&YR.SCR&COMPNUM DF&YR._CP1 DF&YR._CP2
NOBS&YR.V1-NOBS&YR.V&COMPNUM CP&YR.OBS1-CP&YR.OBS&COMPNT
DEN&YR.V1-DEN&YR.V&COMPNUM CP&YR.DEN1-CP&YR.DEN&COMPNT);

/** output a dataset to check **/

/* OUT.&PREF.CHECK(DROP=DROP=SESQ&YR.V1-SESQ&YR.V&COMPNUM
PROP&YR.V1-PROP&YR.V&COMPNUM
SEM&YR.V11-SEM&YR.V&COMPNUM.&COMPNUM);*/

FORMAT MAJGRP $30. REGION $25. REGCAT $42.;

%IF &PREF=D %THEN %DO;

MERGE OBSCNT(IN=IN_OBS) &PREF.CMPSUM(IN=IN_PROP) &PREF.CORR
&PREF.SERR;
BY GROUP &BYVAR;
IF IN_OBS;

%END;
%ELSE %DO;

MERGE &PREF.CMPSUM(IN=IN_PROP) &PREF.CORR
&PREF.SERR;
BY GROUP &BYVAR;
IF IN_PROP;

%END;

/** MAJGRP -- text field for group **/

IF GROUP=1 THEN MAJGRP="Prime Enrollees ";
ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
ELSE IF GROUP=5 THEN MAJGRP="Active Duty ";
ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents ";
ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents ";
ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries ";

/**** REGION AND REGCAT SETUP **/

%IF &PREF=D %THEN %DO;
REGCAT=PUT(CACSMPL, CACR.);
REGION=PUT(XSERVIND, SERVREGO.);
%END;
%IF &PREF=S %THEN %DO;
REGCAT=PUT(XTNEXREG, REGIONF.);
REGION=PUT(XTNEXREG, REGIONF.);
%END;
%else %IF &PREF=C %THEN %DO;
REGION="USA MHS";
REGCAT="USA MHS";
%END;
%ELSE %IF &PREF=R %THEN %DO;
REGION=PUT(XSERVREG, SERVREGO.);
REGCAT=PUT(XSERVREG, SERVREGO.);
%END;
%ELSE %IF &PREF=M %THEN %DO;
grouping **/
REGION=PUT(XSERVAFF, XSERVAFF.);
REGCAT=PUT(XSERVAFF, XSERVAFF.);
%END;

/**** setup t statistics, degrees of freedom **/

ARRAY TSTAT{&COMPNUM} T_&YR.V1-T_&YR.V&COMPNUM;
ARRAY BMARK{&COMPNUM} GOALVAR1-GOALVAR&COMPNUM;
ARRAY STNDERR{&COMPNUM} SERR&YR.V1-SERR&YR.V&COMPNUM;

```

```

ARRAY SERRSQR{&COMPNUM} SESQ&YR.V1-SESQ&YR.V&COMPNUM;
ARRAY DEGF{&COMPNUM} DF&YR.SCR1-DF&YR.SCR&COMPNUM;
ARRAY DENOM{&COMPNUM} DEN&YR.V1-DEN&YR.V&COMPNUM;
ARRAY PROPORT{&COMPNUM} PROP&YR.V1-PROP&YR.V&COMPNUM;
ARRAY SCORE{&COMPNUM} SCOR&YR.V1-SCOR&YR.V&COMPNUM;
ARRAY PVALUE{&COMPNUM} PVAL&YR.V1-PVAL&YR.V&COMPNUM;
ARRAY SIG{&COMPNUM} SIG&YR.V1-SIG&YR.V&COMPNUM;
ARRAY N_OBS{&COMPNUM} NOBS&YR.V1-NOBS&YR.V&COMPNUM;
array norm{&compnum} nrmv1-nrmv&compnum;
/** get the item variance, t-statistics, df, p-values **/
/** and whether significant **/

DO I=1 TO &COMPNUM;
  SERRSQR{I}=STNDERR{I}**2; /* Item variance */
  SCORE{I}=PROPORT{I}*100; /* Score (prop. * 100) */
  IF STNDERR{I} > 0 THEN TSTAT{I}=(PROPORT{I}-BMARK{I})/STNDERR{I};
  ELSE TSTAT{I}=.;
  DEGF{I}=N_OBS{I}-1;
  PVALUE{I}=(1-PROBT(ABS(TSTAT{I})),DEGF{I})*2;
  IF PVALUE{I} GE .05 THEN SIG{I}=0;
  ELSE IF PVALUE{I} < .05 THEN DO;
    IF PROPORT{I} > BMARK{I} THEN SIG{I}=1;
    IF PROPORT{I} < BMARK{I} THEN SIG{I}=-1;
  END;
END;
DROP I;

/** multiply each item pair std. errors and correlation coefficients **/
/** preventive care composite **/

ARRAY SERRC1{&CMPNUM1} SERR&YR.V1-SERR&YR.V&CMPNUM1;
ARRAY SEwC1{&CMPNUM1} SEw&YR.V1-SEw&YR.V&CMPNUM1;
%DO J = 1 %TO &CMPNUM1;
  ARRAY SMEAN&J{&CMPNUM1} SEM&YR.V&J.1-SEM&YR.V&J.&CMPNUM1;
  ARRAY CORVAR&J{&CMPNUM1} COR&YR.V&J.1-COR&YR.V&J.&CMPNUM1;
  DO K=1 TO &CMPNUM1;
    SMEAN&J{K}=SERR&YR.V&J*SERRC1{K}*CORVAR&J{K}*norm{K}*nrmV&J;
  END;
  SEM&YR.V&J.&J=0; /** don't count in final standard error calculation **/
  sew&yr.v&j=(nrmV&j**2)*SESQ&YR.V&j;
%END;
DROP K;
/** multiply each item pair std. errors and correlation coefficients **/
/** access to care composite **/

ARRAY SERRC2{&CMPNUM2} SERR&YR.V&START-SERR&YR.V&COMPNUM;

%DO L = &START %TO &COMPNUM;
  ARRAY SMEAN&L{&CMPNUM2} SEM&YR.V&L.&START-SEM&YR.V&L.&COMPNUM;
  ARRAY CORVAR&L{&CMPNUM2} COR&YR.V&L.&START-COR&YR.V&L.&COMPNUM;
  DO M=1 TO &CMPNUM2;
    SMEAN&L{M}=SERR&YR.V&L*SERRC2{M}*CORVAR&L{M};
  END;
  SEM&YR.V&L.&L=0; /** don't coun't in final standard error calculation **/
%END;
DROP M;
/** calculate composite t-statistic, pvalue, and whether significant **/
/** for composites **/

%DO P=1 %TO &COMPCNT;
  %IF &P=1 %THEN %DO;

    /** composite standard error comprised of two parts **/
    CP&YR.&P.SE1=SUM(OF SEw&YR.V1-SEw&YR.V&CMPNUM1);
    CP&YR.&P.SE2=SUM(OF SEM&YR.V11-SEM&YR.V&CMPNUM1.&CMPNUM1.);
    cp&yr.obs&p=sum(of nob&yr.v1-nob&yr.v&cmpnum1);
    cp&yr.den&p=sum(of nrmv1-nrmv&cmpnum1);
  %END;
  %ELSE %DO;
    CP&YR.&P.SE1=SUM(OF SESQ&YR.V&START-SESQ&YR.V&COMPNUM);
    CP&YR.&P.SE2=SUM(OF SEM&YR.V&START.&START.-SEM&YR.V&COMPNUM.&COMPNUM.);
  %END;
%END;

```

```

/** add the two parts of the composite standard error **/
/** calculate the composite t statistics and p-values **/
/** determine whether differences re significant **/

/**RSG - 02/2005 Some of the following codes will produce some
"error" (e.g., fields that are not initialized) - these
are "leftover" codes from previous versions of the survey
where 2 composite scores were produced. Now since we only
use 1 composite score, these are basically calculations that
are not used...but kept in "just in case"*/
IF CP&YR.DEN&P > 0 THEN CP&YR.&P.SE=SQRT(CP&YR.&P.SE2+CP&YR.&P.SE1)/cp&yr.den&P; /*RSG
02/2005 prevent division by zero*/
ELSE CP&YR.&P.SE = .;
IF CP&YR.&P.SE > 0 THEN CP&YR._T&P.=(COMP&YR.&P.-CP&YR.BMK&P.)/CP&YR.&P.SE;
ELSE CP&YR._T&P.= .;
DF&YR._CP&P.=CP&YR.OBS&P. - 1;
CP&YR._P&P.=(1-PROBT(ABS(CP&YR._T&P.),DF&YR._CP&P.))*2;
IF CP&YR._P&P GE .05 THEN CP&YR.SIG&P=0;
ELSE IF CP&YR._P&P < .05 THEN DO;
IF COMP&YR.&P. > CP&YR.BMK&P THEN CP&YR.SIG&P= 1;
ELSE IF COMP&YR.&P. < CP&YR.BMK&P THEN CP&YR.SIG&P=-1;
END;

%END;

OUTPUT OUT.&PREF.FINAL;

/*%IF &PREF=M %THEN %DO;
OUTPUT OUT.&PREF.CHECK;
%END; */

RUN;

%MEND GETSIG;

/** RSG 02/2005 - Any errors relating to uninitialized fields such as
cp&yr.den2 or cp&yr.obs2 can be ignored - these (as well as field
that uses these fields for calculations, e.g. df&yr._cp2, are not
used **/
%GETSIG(USA);
%GETSIG(XTNEXREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVAFF);
%GETSIG(CACSMPL);

```

G.12.B REPORTCARDS\MPR_ADULT2010\SMOKING_BMI.SAS - CALCULATE HEALTHY BEHAVIOR COMPOSITE SCORES - ANNUAL.

```

*****
*
* Project:   DoD Reporting and Analysis 6077-410
* Program:   SMOKING_BMI.SAS
* Purpose:   Calculate Smoking Rate and Smoking Cessation
*           for each region-service affiliation and
*           conus-service affiliation groups.
*
* Date:      1/31/2005
* Author:    Regina Gramss
*
* Modified:  1) 04/2005 By Regina Gramss, Updated for Q1 2005.
*           2) 12/2005 By Regina Gramss, Updated for Q4 2005.
*           3) 01/2006 By Regina Gramss - Updated for 2005 annual data. Normalize
*           with 2005 data and not 2000. Standardize using age/sex and MPCSMPL
*           (military personnel category). Update smoking cessation
*           calculation with new formula to correspond more to HEDIS. Use new
*           weight (CFWT) and use STRATUM as TMP_CELL.
*           4) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
*           5) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
*           6) 08/24/2006 By Justin Oh, REGNUM changed from 16 to 24.
*           Changed XSERVREG for Overseas
*           Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
*           IF XINS_COV IN (3) THEN GROUP4 = 1
*           Since only XINS_COV IN (1,2,3,6) is kept.
*           Create XOCONUS for 2005 data.
*           Added/Moved LIBRARY Libname to use both Quarter/Annual Formats.
*           7) 10/04/2006 By Justin Oh, Updated %LET DSN and CURRENT.
*           8) 12/22/2006 By Justin Oh, Updated %LET DSN HCS071_1 and CURRENT October, 2006.
*           9) 02/02/2007 By Justin Oh, Added "s" to Healthy Behaviors
*           10) 04/05/2007 By Justin Oh, Updated %LET DSN HCS072_1 and CURRENT January, 2007.
*           11) 04/05/2007 By Justin Oh, Added conditions for RC types
*           ReportCards OR PurchasedReportCards.
*           12) 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
*           both Norm and Quarter datasets.
*           13) 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
*           Groups 1,3, and 4 for new reservists logic.
*           14) 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
*           Groups All, 4, 5, and 6.
*           15) 09/04/2007 By Justin Oh, Updated %LET DSN HCS074_1 and CURRENT July, 2007.
*           16) 01/10/2008 By Keith Rathbun, Updated %LET DSN HCS081_1 and CURRENT October,
2007.
*           Also changed H07 variable names to be H08 to match 2008 survey.
*           17) 04/11/2008 By Justin Oh, Updated %LET DSN HCS082_1 and CURRENT January, 2008.
*           18) 06/13/2008 By Keith Rathbun, Updated %LET DSN HCS083_1 and CURRENT April, 2008.
*           19) 03/11/2009 By Keith Rathbun, Updated %LET DSN HCS092_1 and CURRENT January,
2009.
*           20) 04/20/2009 By Mike Rudacille, Switched from 2005 to 2007 benchmark data for
transition to
*           V4 questionnaire.
*           21) 05/05/2009 By Mike Rudacille, Updated for 2008 benchmark data.
*           22) 06/22/2009 By Keith Rathbun, Updated %LET DSN HCS093_1 and CURRENT April, 2009.
*           Changed weight variable from FWRWT_V4 back to FWRWT.
*           23) 09/30/2009 By Mike Rudacille, Updated %LET DSN HCS094_1 and CURRENT July, 2009.
*           24) 09/10/2010 By Mike Rudacille, Updated for 2010 annual report
*           25) 11/02/2010 By Mike Rudacille, Updated input dataset from HCS10A_1 to HCS10A_2.
*
* Inputs:    1) HCS05A_1.SD2 - Annual 2005 Survey data
*           2) HCS093_1.sas7bdat - Q3 fy 2009 Survey data
*           3) AC2008DB.sas7bdat - 2008 CAHPS Benchmark Data
*
* Output:    1) SMOKE.sas7bdat
*
*****;

```

```

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr;

```

```

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ****/
%LET RCTYPE = ReportCards;

```

```

LIBNAME BENCH      "..\..\..\..\2009AdultChildNCBD\Adult";
LIBNAME INDAT     "..\..\..\..\Data\";
LIBNAME INNORM v612 "..\..\..\..\2005\Data";
LIBNAME OUT       ".";
LIBNAME LIBRARY  '..\..\..\..\Data\fmtlib';
LIBNAME INGP     '..\CAHPS_ADULT2010\DATA';

%LET DSN=HCS10A_2;
%LET DSN_NORM=HCS05A_1; /*JSO 08/24/2006, Changed Regions, 16 to 15*/
%LET REGNUM = 15; /*RSG 01/2005 Number of Regions (with serv
affiliation)*/
%LET CONNUM = 4; /*RSG 01/2005 Number of Conus level (with serv
affiliation)*/
%LET CURRENT = 2010;
%LET WGT = CFWT;
%LET NORMWGT = CFWT;
%LET CATCHNUM=9999; /*RSG 02/2005 number of catchment areas **/

DATA BENCHA01;
  SET BENCH.AC2009DB (RENAME=(BIRTHYY=YOB));
  if product in (7,9) then model=4;
  if product=3 then model=2; /*coded according to AC FORMATS.SAS*/
  if product=1 then model=1;
  if product=4 then model=6;
  if product=8 then model=5;
  if product=2 then model=3;
  product=planid;
if ^(model in (2,4));
if disp in ('M10','I10') ;
if ac45_09 in (1,2) & ac46_09>=0 & ac46_09<=4; /*02/2006 RSG - REMOVED REQUIREMENT FOR
ADDITIONAL VISIT (ACC22 FIELD)*/
cessbnch=0;
if ac46_09>0 then cessbnch=1;

proc summary nway; class product;
var cessbnch;
output out=tbench mean=;
proc print;
proc summary;
var cessbnch;
output out=tbench mean=;
proc print;
data _null_;
set tbench;
call symput('CNSLGOAL',cessbnch);
run;

%LET NSMKGOAL = 0.88;

%LET BMIGOAL = 0.85;

%INCLUDE "..\..\LoadWeb\LOADCAHQ.INC";

PROC FORMAT;
VALUE AGEF
LOW - 34 = 1
35 - 49 = 2
50 - 64 = 3
65 - HIGH = 4;

/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */

DATA NORMDATA (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF
SM_RATE SM_CESS SM_RTDN SM_CSDN BMI_DN BMI
TOTCON GROUP XSEX &WGT. age_n MPCSMPL CACSMPL NXNS_COV);
/* 05/10/2007 JSO Added NXNS_COV in the keep statement */
SET INNORM.&DSN_NORM. (DROP=CACSMPL) ;
LENGTH AGE_N AGE_GRP TMP_CELL 8.;

TMP_CELL=STRATUM;

```

```

AGE_N = FIELDAGE;

AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE_GRP < 4;

IF SERVAFF = 'A' THEN XSERVAFF = 1;           *Army;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;     *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;     *Navy;
ELSE XSERVAFF = 4;                           *Other/unknown;

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
  IF XREGION = 13 THEN XSERVREG = 13;
  ELSE IF XREGION = 14 THEN XSERVREG = 14;
  ELSE IF XREGION = 15 THEN XSERVREG = 15;
END;

IF HP_SMOKH IN (1,2) THEN DO;
  SM_RATE = 0;
  IF HP_SMOKH = 2 THEN SM_RATE=1;
  SM_RTDN=1;
END;

if hp_smokh=1 & H05055>0 then do; /*RSG 02/2006 NEW SMOKING CESSATION FORMULA AS PER ERIC SCHONE */
  if H05055>1 then sm_cess=1;
  else sm_cess=0;
  sm_csdn=1;
end;

IF xbmicat > 0 THEN DO;
  BMI = 0;
  BMI_DN=1;
  IF xbmicat <=3 THEN BMI=1;
END;

IF XTNEXREG IN (1,2,3) THEN TOTCON=1;

ELSE IF XTNEXREG = 4 THEN TOTCON=2;

IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */

RENAME XCATCH=CACSMPL &NORMWGT = &WGT;

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H05006 = 3 THEN DO;

```



```

        NXNS_COV = 3;
        XENR_PCM = .;
END;

* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H05007>=2 THEN DO;
    GROUP=1;
    OUTPUT;
END;

* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF XENR_PCM IN (1,2,6) AND H05007>=2 THEN DO;
    GROUP=2;
    OUTPUT;
END;

* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    XENR_PCM = 3 AND H05007>=2 THEN DO;
    GROUP=3;
    OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    ((XENR_PCM = 3 AND H05007>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added 9*/
    GROUP=3;
    OUTPUT;
END;

* nonenrollees;
IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
    GROUP=4; /*JSO 07/30/2007, Added 9*/
    OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
    GROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
    GROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
END;

* retirees;
IF XBNFGRP IN (3,4) THEN DO;
    GROUP=7;
    OUTPUT;
END;

* all beneficiaries;
GROUP=8;
OUTPUT;

RUN;

DATA SMOKE (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF TOTCON GROUP
            SM_RATE SM_CESS SM_RTDN SM_CSDN XSEXA &WGT BMI_DN BMI
            CACSMPL MPCSMPL NXNS_COV); /* 05/10/2007 JSO Added NXNS_COV in the keep
statement */
SET INDAT.&DSN. (DROP=CACSMPL);
LENGTH AGE_N AGE_GRP TMP_CELL 8.;

/* MER 4/20/09 - Restrict dataset to just non-zero V4 weights */
*IF &WGT <= 0 THEN DELETE;

TMP_CELL=STRATUM;
AGE_N = FIELDAGE;

```

```

AGE_GRP = PUT(AGE_N, AGEF.);

IF AGE_GRP < 4;
IF SERVAFF='A' THEN XSERVAFF=1;           *Army;
ELSE IF SERVAFF='F' THEN XSERVAFF=2;     *Air Force;
ELSE IF SERVAFF='N' THEN XSERVAFF=3;     *Navy;
ELSE XSERVAFF=4;

IF XTNEXREG = 1 THEN DO;
IF XSERVAFF = 1 THEN XSERVREG = 1;
ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
IF XSERVAFF = 1 THEN XSERVREG = 5;
ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
IF XSERVAFF = 1 THEN XSERVREG = 9;
ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
IF XREGION = 13 THEN XSERVREG = 13;
ELSE IF XREGION = 14 THEN XSERVREG = 14;
ELSE IF XREGION = 15 THEN XSERVREG = 15;
END;

IF XSERVREG = . THEN DELETE; /* MER 11/10/10 - Deletes records with imputed TNEXREG = 'O' */
/* and missing XOCONUS. (Only applies to CACSMPL = 9904) */

IF XTNEXREG IN (1,2,3) THEN TOTCON=1;

ELSE IF XTNEXREG=4 THEN TOTCON=2;

IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */

RENAME XCATCH=CACSMPL;

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
NXNS_COV = 3;
XENR_PCM = .;
END;

IF HP_SMKH2 IN (1,2) THEN DO;
SM_RATE = 0;
IF HP_SMKH2 = 2 THEN SM_RATE=1;
SM_RTDN=1;
END;

if hp_smkh2=1 & H10053>0 then do; /*RSG 02/2006 NEW SMOKING CESSATION FORMULA AS PER ERIC
SCHONE */
if H10053>1 then sm_cess=1;
else sm_cess=0;
sm_csdn=1;
end;

```

```

IF xbmicat > 0 THEN DO;
    BMI = 0;
    BMI_DN=1;
    IF xbmicat <=3 THEN BMI=1;
END;

* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H10004>=2 THEN DO;
    GROUP=1;
    OUTPUT;
END;

* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF XENR_PCM IN (1,2,6) AND H10004>=2 THEN DO;
    GROUP=2;
    OUTPUT;
END;

* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    XENR_PCM = 3 AND H10004>=2 THEN DO;
    GROUP=3;
    OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    ((XENR_PCM = 3 AND H10004>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added 9*/
    GROUP=3;
    OUTPUT;
END;

* nonenrollees;
IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
    GROUP=4; /*JSO 07/30/2007, Added 9*/
    OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
    GROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
    GROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
END;

* retirees;
IF XBNFGRP IN (3,4) THEN DO;
    GROUP=7;
    OUTPUT;
END;

* all beneficiaries;
GROUP=8;
OUTPUT;

RUN;

proc freq;
table xservreg*cacsmp1/list;
run;

PROC SORT DATA=SMOKE;
BY TMP_CELL;
PROC SORT DATA=NORMDATA;
BY TMP_CELL;
RUN;

%MACRO A_SUDAAN(TABLEVAR,SMOKE,SMOKEVAR,DEN);

```

```

%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
  %LET ENDNUM=&REGNUM;
  %LET PREF=R;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
  %LET ENDNUM=&CONNUM;
  %LET PREF=M;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
  %LET ENDNUM=&CONNUM;
  %LET PREF=S;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=CACSMPL %THEN %DO;  /**RSG 02/2005 add code to calc by CACSMPL**/
  %LET ENDNUM=&CATCHNUM;
  %LET PREF=D;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=TOTCON %THEN %LET PREF=C;

%DO I = 1 %TO 8;

  DATA INDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEX A CACSMPL MPCSMPL
                &SMOKEVAR. &DEN. TMP_CELL XTNEXREG);
  SET SMOKE;
  WHERE XSERVREG > 0 AND GROUP=&I. AND &DEN. >= 0;
  %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
    IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE;
  %END;
  %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
    IF TOTCON NE 1 THEN DELETE;
  %END;
  %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
    IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
  %END;
  RUN;

  DATA NORMDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEX A &SMOKEVAR. &DEN.
                  TMP_CELL XTNEXREG MPCSMPL);
  SET NORMDATA;
  WHERE XSERVREG > 0 AND GROUP=&I.;

  %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
    IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE;
  %END;
  %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
    IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
  %END;

  RUN;

  %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
    PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
    WEIGHT &WGT;
    SETENV DECWIDTH=4;
    NEST TMP_CELL / missunit;
    VAR &SMOKEVAR;
    TABLES AGE_GRP*XSEX A*MPCSMPL*&TABLEVAR.;
    SUBGROUP AGE_GRP XSEX A MPCSMPL &TABLEVAR.;
    LEVELS 8 2 2 &ENDNUM.;
    OUTPUT SEMEAN MEAN wsum nsum
           / TABLECELL=DEFAULT REPLACE
           FILENAME=&PREF.GRP&I.&SMOKE.;
    RUN;
  %END;
  %ELSE %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
    PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
    WEIGHT &WGT;
    SETENV DECWIDTH=4;
    NEST TMP_CELL / missunit;
    VAR &SMOKEVAR;
    TABLES AGE_GRP*XSEX A*MPCSMPL;
    SUBGROUP AGE_GRP XSEX A MPCSMPL;
    LEVELS 3 2 2;
    OUTPUT SEMEAN MEAN wsum nsum

```

```

/ TABLECELL=DEFAULT REPLACE
FILENAME=&PREF.GRP&I.&SMOKE.;
RUN;
%END;

%IF %UPCASE(&SMOKE) NE CS %THEN %DO;

DATA &PREF.SER_&I.&SMOKE.;
SET &PREF.GRP&I.&SMOKE.;
GROUP=&I.;
IF SEMEAN NE .;
%IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
KEEP &TABLEVAR. GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
%END;
%IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
TOTCON=1;
KEEP TOTCON GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
%END;
RUN;

/* CREATE WEIGHTS FROM 2005 DATA*/
proc summary data=normdat&i. nway;
var &WGT;
where &den>0;
class age_grp xsex a MPCSMPL;
output out=norm_&i. sum=normwt;

proc sort data=&pref.ser_&i.&smoke.;
by age_grp xsex a mpcsmpl;

data &pref.ser_&i.&smoke.;
merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
by age_grp xsex a mpcsmpl;
if gin;
wsum=wsum/normwt;
nsum=nsum/normwt;
sesq=normwt*semean**2;
run;

proc summary data=&pref.ser_&i.&smoke. nway;
var mean semean sesq wsum nsum;
class &tablevar.;
weight normwt;
output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)=
sumwgt(semean)=;
run;

data &pref.sert&i.&smoke;
set &pref.sert&i.&smoke;
group=&i.;
semean=sqrt(sesq/semean);
drop _type_ _freq_;
run;

%IF &I. = 1 %THEN %DO;

DATA &PREF._&SMOKE.;
SET &PREF.SERT&I.&SMOKE.;
RUN;
%END;
%ELSE %DO;

DATA &PREF._&SMOKE.;
SET &PREF._&SMOKE. &PREF.SERT&I.&SMOKE.;
RUN;

PROC SORT DATA=&PREF._&SMOKE.;
BY GROUP;
RUN;

%END;

%END;
%IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;

```

```

PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
WEIGHT &WGT;
SETENV DECWIDTH=4;
NEST TMP_CELL / missunit;
VAR &SMOKEVAR;
TABLES AGE_GRP*XSEXA*&TABLEVAR.;
SUBGROUP AGE_GRP XSEXA &TABLEVAR.;
LEVELS 3 2 &ENDNUM.;
OUTPUT SEMEAN MEAN wsum nsum
      / TABLECELL=DEFAULT REPLACE
      FILENAME=&PREF.GRP&I.&SMOKE.;
RUN;
%END;
%ELSE %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
WEIGHT &WGT;
SETENV DECWIDTH=4;
NEST TMP_CELL / missunit;
VAR &SMOKEVAR;
TABLES AGE_GRP*XSEXA;
SUBGROUP AGE_GRP XSEXA;
LEVELS 3 2 ;
OUTPUT SEMEAN MEAN wsum nsum
      / TABLECELL=DEFAULT REPLACE
      FILENAME=&PREF.GRP&I.&SMOKE.;
RUN;
%END;
%IF %UPCASE(&SMOKE) = CS %THEN %DO;

DATA &PREF.SER_&I.&SMOKE.;
SET &PREF.GRP&I.&SMOKE.;
GROUP=&I.;
IF SEMEAN NE .;
%IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
KEEP &TABLEVAR. GROUP AGE_GRP XSEXA SEMEAN MEAN wsum nsum;
%END;
%IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
TOTCON=1;
KEEP TOTCON GROUP AGE_GRP XSEXA SEMEAN MEAN wsum nsum;
%END;
RUN;

/* CREATE WEIGHTS FROM 2005 DATA*/
proc summary data=normdat&i. nway;
var &WGT;
where &den>0;
class age_grp xsexa;
output out=norm_&i. sum=normwt;

proc sort data=&pref.ser_&i.&smoke.;
by age_grp xsexa;

data &pref.ser_&i.&smoke.;
merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
by age_grp xsexa;
if gin;
wsum=wsum/normwt;
nsum=nsum/normwt;
sesq=normwt*semean**2;
run;

proc summary data=&pref.ser_&i.&smoke. nway;
var mean semean sesq wsum nsum;
class &tablevar.;
weight normwt;
output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)=
sumwgt(semean)=;
run;

data &pref.sert&i.&smoke;
set &pref.sert&i.&smoke;
group=&i.;
semean=sqrt(sesq/semean);

```

```

        drop _type_ _freq_;
run;

%IF &I. = 1 %THEN %DO;

DATA &PREF._CESS;
SET &PREF.SERT&I.&SMOKE.;
RUN;
%END;
%ELSE %DO;

DATA &PREF._CESS;
    SET &PREF._CESS &PREF.SERT&I.&SMOKE.;
    RUN;

PROC SORT DATA=&PREF._CESS;
BY GROUP;
RUN;

%END;

%END;

%MEND;

%A_SUDAAN(XSERVAFF,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVAFF,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVAFF,BM,BMI,BMI_DN);
%A_SUDAAN(XSERVREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVREG,BM,BMI,BMI_DN);
%A_SUDAAN(XTNEXREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XTNEXREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XTNEXREG,BM,BMI,BMI_DN);
%A_SUDAAN(TOTCON,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(TOTCON,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(TOTCON,BM,BMI,BMI_DN);
%A_SUDAAN(CACSMPL,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(CACSMPL,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(CACSMPL,BM,BMI,BMI_DN);

%MACRO ADDIT(PREF, TYPE);

DATA &PREF._&TYPE;
SET &PREF._&TYPE;
LENGTH BENEFIT $34. BENTYPE $50.;

BENEFIT="Healthy Behaviors";
%IF &TYPE=RT %THEN %DO;
    BENTYPE="Non-Smoking Rate";
%END;
%IF &TYPE=CESS %THEN %DO;
    BENTYPE="Counselled To Quit";
%END;
%IF &TYPE = BM %THEN %DO;
    BENTYPE = "Percent Not Obese";
%END;
RUN;

%MEND;

%ADDIT(C,RT);
%ADDIT(C,CESS);
%ADDIT(C,BM);
%ADDIT(M,RT);
%ADDIT(M,CESS);
%ADDIT(M,BM);

```

```

%ADDIT(R,RT);
%ADDIT(R,CESS);
%ADDIT(R,BM);
%ADDIT(S,RT);
%ADDIT(S,CESS);
%ADDIT(S,BM);
%ADDIT(D,RT);
%ADDIT(D,CESS);
%ADDIT(D,BM);

proc freq data=ingp.group8 noprint;
tables cacsmdl*xservind / list out=cacformat(drop=count percent);
run;

%MACRO MAKEDATA(PREF, TABLEVAR);
  DATA &PREF._SMOKE;
  SET &PREF._RT
      &PREF._CESS
      &PREF._BM
;

  LENGTH MAJGRP $30. REGION $25. REGCAT $42.;

  IF      GROUP=1 THEN MAJGRP="Prime Enrollees           ";
  ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
  ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
  ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
  ELSE IF GROUP=5 THEN MAJGRP="Active Duty               ";
  ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents    ";
  ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents    ";
  ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries         ";

  %IF &TABLEVAR = XSERVAFF %THEN %DO;
    IF XSERVAFF = 1 THEN REGION = 'ARMY';
    IF XSERVAFF = 2 THEN REGION = 'AIR FORCE';
    IF XSERVAFF = 3 THEN REGION = 'NAVY';
    IF XSERVAFF = 4 THEN REGION = 'OTHER';
  %END;

  %IF &TABLEVAR = XSERVREG %THEN %DO;
    REGION = PUT(XSERVREG,SERVREG.); /*JSO 08/24/2006, Create new format for Overseas*/
  %END;

  %IF &TABLEVAR = XTNEXREG %THEN %DO;
    IF XTNEXREG=1 THEN REGION="NORTH";
    ELSE IF XTNEXREG=2 THEN REGION="SOUTH";
    ELSE IF XTNEXREG=3 THEN REGION="WEST";
    ELSE IF XTNEXREG=4 THEN REGION="OVERSEAS";
  %END;

  %IF &TABLEVAR = TOTCON %THEN %DO;
    REGION = "USA MHS";
  %END;

  %IF &TABLEVAR = CACSMPL %THEN %DO; /*RSG 02/2005 Add CACSMPL**/
    REGCAT = PUT(CACSMPL, CACR.);
    REGION = ' ';
  %END;

  %IF &TABLEVAR NE CACSMPL %THEN %DO;
    REGCAT=REGION;
    DROP GROUP &TABLEVAR;
  %END;

  %IF &TABLEVAR = CACSMPL %THEN %DO; /*RSG 02/2005 Add CACSMPL**/
    REGCAT = PUT(CACSMPL, CACR.);
    REGION = ' ';
  %END;

  %IF &TABLEVAR NE CACSMPL %THEN %DO;
    REGCAT=REGION;
    DROP GROUP &TABLEVAR;
  %END;

```



```

IF &TABLEVAR NE 0;

RUN;

%IF &TABLEVAR = CACSMPL %THEN %DO;

PROC SORT DATA=&PREF._SMOKE;
BY CACSMPL;

DATA &PREF._SMOKE;
MERGE &PREF._SMOKE (IN=A) CACFORMAT (IN=B);
BY CACSMPL;
IF A;
REGION=PUT(XSERVIND,SERVREGO.);
DROP GROUP &TABLEVAR XSERVREG;
RUN;
%END;

%MEND MAKEDATA;

%MAKEDATA(M,XSERVAFF);
%MAKEDATA(C,TOTCON);
%MAKEDATA(R,XSERVREG);
%MAKEDATA(S,XTNEXREG);
%MAKEDATA(D,CACSMPL);

DATA SMOKE;
SET M_SMOKE R_SMOKE S_SMOKE C_SMOKE D_SMOKE;
SESQ = SEMEAN**2;
RENAME MEAN=SCORE wsum=n_wgt nsum=n_obs;
RUN;

/* CALCULATE COMPOSITE SCORE - AVERAGE RATE AND CESSATION*/

PROC SORT DATA=SMOKE;
BY MAJGRP REGION REGCAT;
RUN;

PROC SUMMARY DATA=SMOKE SUM;
BY MAJGRP REGION REGCAT;
VAR SCORE SESQ N_WGT N_OBS;
OUTPUT SUM= OUT=PRECOMP;
RUN;

DATA COMP(RENAME=(S_MEAN=SCORE S_SE=SEMEAN));
SET PRECOMP;
IF _FREQ_ = 3 THEN DO;
S_MEAN=SCORE/3;
S_SE=SQRT(SESQ)/3;
N_OBS=round(N_OBS/3);
END;
ELSE DO;
S_MEAN=.;
S_SE=.;
END;
BENTYPE="Composite";
BENEFIT="Healthy Behaviors";
DROP _TYPE_ _FREQ_ SCORE SESQ;
RUN;

PROC SORT DATA=SMOKE;
BY MAJGRP BENTYPE;
RUN;

DATA BENCH;
SET SMOKE;
BY MAJGRP BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
SCORE=&CNSLGOAL;
SEMEAN=.;
REGION="Benchmark";

```

```

    REGCAT="Benchmark";
    DROP N_WGT N_OBS;
    OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
    SCORE=&NSMKGOAL;
    SEMEAN=. ;
    REGION="Benchmark";
    REGCAT="Benchmark";
    DROP N_WGT N_OBS;
    OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
    SCORE=&BMIGOAL;
    SEMEAN=. ;
    REGION="Benchmark";
    REGCAT="Benchmark";
    DROP N_WGT N_OBS;
    OUTPUT;
    SCORE=(SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3;
    SEMEAN=. ;
    REGION="Benchmark";
    REGCAT="Benchmark";
    BENTYPE="Composite";
    DROP N_WGT;
    OUTPUT;
END;
RUN;

PROC SORT DATA=SMOKE;
BY REGION BENTYPE;
RUN;

DATA TEMP;
SET SMOKE;
IF REGION=REGCAT;
RUN;

PROC SORT DATA=TEMP;
BY REGION BENTYPE;
RUN;

DATA BENCH2;
SET TEMP;
BY REGION BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
    SCORE=&CNSLGOAL;
    SEMEAN=. ;
    MAJGRP="Benchmark";
    DROP N_WGT N_OBS;
    OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
    SCORE=&NSMKGOAL;
    SEMEAN=. ;
    MAJGRP="Benchmark";
    DROP N_WGT;
    OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
    SCORE=&BMIGOAL;
    SEMEAN=. ;
    MAJGRP="Benchmark";
    DROP N_WGT;
    OUTPUT;
    SCORE=(SUM(&CNSLGOAL, &NSMKGOAL, &BMIGOAL))/3;
    SEMEAN=. ;
    MAJGRP="Benchmark";
    BENTYPE="Composite";
    DROP N_WGT N_OBS;
    OUTPUT;
END;
RUN;

```

```

DATA SIG1;
SET SMOKE COMP;
IF BENTYPE='Non-Smoking Rate' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&NSMKGOAL)/SEMEAN;
  ELSE TSTAT=.;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;

  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &NSMKGOAL THEN SIG = 1;
    ELSE IF SCORE < &NSMKGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Counselled To Quit' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&CNLSGOAL)/SEMEAN;
  ELSE TSTAT=.;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &CNLSGOAL THEN SIG = 1;
    ELSE IF SCORE < &CNLSGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Percent Not Obese' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&BMIGOAL)/SEMEAN;
  ELSE TSTAT=.;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &BMIGOAL THEN SIG = 1;
    ELSE IF SCORE < &BMIGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Composite' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-((SUM(&NSMKGOAL, &CNLSGOAL, &BMIGOAL))/3))/SEMEAN;
  ELSE TSTAT=.;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > ((SUM(&NSMKGOAL, &CNLSGOAL, &BMIGOAL))/3) THEN SIG = 1;
    ELSE IF SCORE < ((SUM(&NSMKGOAL, &CNLSGOAL, &BMIGOAL))/3) THEN SIG = -1;
  END;
END;
END;

DROP TSTAT PVAL;
RUN;

DATA SMOKE_ALL;
SET SIG1 BENCH BENCH2;
TIMEPD="&CURRENT.";
RUN;

PROC SORT DATA=SMOKE_ALL OUT=OUT.SMOKE;
BY MAJGRP REGION REGCAT BENTYPE;
RUN;

```

G.12.C REPORTCARDS\MPR_ADULT2010\LOADMPR.SAS - CONVERT THE MPR SCORES DATABASE INTO THE WEB LAYOUT - ANNUAL.

```
*****;
* Project: DoD Reporting and Analysis 6244-410
* Program: LOADMPR.SAS
* Author: Chris Rankin
* Date: 4/07/2000
* Modified: 1) 5/08/2001 -- standard errors retained in output data set.
*           2) 1/8/2003 by Keith Rathbun: Updated to accomodate the
*           2002 survey.
*           3) 1/30/2003 by Chris Rankin: Updated to for trends from
*           2000, 2002 Annual.
*           4) 02/05/2004 by Mike Scott: Updated for 2003 Annual Report.
*           Uncommented Flu Shot and changed to Cholesterol.
*           5) 02/2005 by Regina Gramss: Updated for 2004 Annual Report.
*           Added codes for new "Region" fields. Include smoke data
*           from smoking.sas program.
*           6) 02/2006 by Regina Gramss: Updated for 2005. Dropped chol measure.
*           7) 11/07/2006 by Keith Rathbun: Changed REG loop control from
*           16 to 15 and format servregf to servrego.
*
* Purpose: Calculate MPR Preventive Care Composites
*
* Input: RFINAL.SD2
*        CFINAL.SD2
*        MFINAL.SD2
*        DFINAL.SD2
*        SFINAL.SD2
*        SMOKE.SD2
* Output: loadmpr.sd2
*****;
```

```
OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2;
```

```
LIBNAME INLIB ".";
LIBNAME OUT ".";
LIBNAME LIBRARY "..\..\data\fmtlib"; /*MJS 02/05/04*/
```

```
%LET COMPNUM=7; /** number of questions in both composites **/
%LET CMPNUM1=4; /** number of questions in first composite **/ /*MJS 02/05/04*/
```

```
%LET YR=10;
%LET YEAR=2010;
%LET EYR=08;
```

```
%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";
```

```
*****;
*** Note -- take out access to care questions and composite ***;
*****;
```

```
DATA BENCHMKS(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SIG);
FORMAT MAJGRP $30. REGION $25. REGCAT $42.
BENEFIT $34. BENTYPE $50. TIMEPD $35.;
```

```
SET inlib.CFINAL;
```

```
/***** Benchmarks *****/
```

```
ARRAY BENCHMK{*} GOALVAR1-GOALVAR&CMPNUM1 CP&yr.BMK1;
DO I = 1 TO 5; /*MJS 02/05/04*/
SCORE = BENCHMK{I}*100;
SIG = .;
REGION = "Benchmark";
REGCAT = "Benchmark";
BENEFIT = "Preventive Care";
IF I = 1 THEN BENTYPE = "Prenatal Care";
ELSE IF I = 2 THEN BENTYPE = "Mammography";
ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
ELSE IF I = 4 THEN BENTYPE = "Hypertension";
/*ELSE IF I = 5 THEN BENTYPE = "Cholesterol Testing";*/ /*RSG 01/27/06*/
ELSE IF I = 5 THEN BENTYPE = "Composite";
```

```

        TIMEPD = "&YEAR"; /*RSG 02/2005*/
    OUTPUT;
END;
DROP I;
RUN;

DATA BENCHMKS;
SET BENCHMKS;
OUTPUT;
IF MAJGRP = "All Beneficiaries" THEN DO;
    DO REG = 1 TO 15; DROP REG;
        MAJGRP = "Benchmark";
        REGION = PUT(REG,SERVREGO.);
        REGCAT = PUT(REG,SERVREGO.);
        OUTPUT;
    END;
    DO SERV = 1 TO 4; DROP SERV;
        MAJGRP = "Benchmark";
        REGION = PUT(SERV,XSERVAFF.);
        REGCAT = PUT(SERV,XSERVAFF.);
        OUTPUT;
    END;
    MAJGRP = "Benchmark";
    REGION = 'CONUS MHS';
    REGCAT = 'CONUS MHS';
    OUTPUT;
    MAJGRP = "Benchmark";
    REGION = 'NORTH';
    REGCAT = 'NORTH';
    OUTPUT;
    MAJGRP = "Benchmark";
    REGION = 'SOUTH';
    REGCAT = 'SOUTH';
    OUTPUT;
    MAJGRP = "Benchmark";
    REGION = 'WEST';
    REGCAT = 'WEST';
    OUTPUT;
    MAJGRP = "Benchmark";
    REGION = 'OVERSEAS';
    REGCAT = 'OVERSEAS';
    OUTPUT;
END;
RUN;

PROC FREQ DATA=BENCHMKS;
    TABLES MAJGRP/MISSING LIST;
RUN;

*****
**** Scores **
*****

DATA DFINAL;
SET INLIB.DFINAL;
WHERE UPCASE(TRIM(MAJGRP)) IN ("PRIME ENROLLEES", "ENROLLEES WITH MILITARY PCM",
    "ACTIVE DUTY", "ALL BENEFICIARIES");
RUN;

DATA SCORES(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG N_OBS N_WGT);
FORMAT MAJGRP $30. REGION $25. REGCAT $42.
    BENEFIT $34. BENTYPE $50. TIMEPD $35.;
SET INLIB.MFINAL
    INLIB.RFINAL
    DFINAL
    INLIB.SFINAL
    INLIB.CFINAL;
IF REGCAT='Out of Catchment Region 01' then REGCAT='Out of Catchment North Region';
IF REGCAT='Out of Catchment Region 02' then REGCAT='Out of Catchment South Region';
IF REGCAT='Out of Catchment Region 03' then REGCAT='Out of Catchment West Region';
IF REGCAT='Out of Catchment Region 04' then REGCAT='Out of Catchment OCONUS Region';

ARRAY SEMEANS{*} SERR&YR.V1-SERR&YR.V&CMPNUM1. CP&YR.1SE ;
ARRAY SCORES{*} SCOR&YR.V1-SCOR&YR.V&CMPNUM1. Comp&YR.1;

```

```

ARRAY SIGNIF{*} SIG&YR.V1-SIG&YR.V&CMPNUM1. CP&YR.SIG1;
ARRAY NOBS {*} NOBS&YR.V1-NOBS&YR.V&CMPNUM1. CP&YR.OBS1;
ARRAY NWGT {*} DEN&YR.V1-DEN&YR.V&CMPNUM1 CP&YR.DEN1;
cp&YR.den1=0;
DO I = 1 TO 5; /*MJS 02/05/04*/
  SCORE = SCORES{I};
  SEMEAN = SEMEANS{I};
  SIG = SIGNIF{I};
  N_OBS = NOBS{I};
  N_WGT = NWGT{I};
  if i<5 then cp&YR.den1+nwgt[i];
  BENEFIT = "Preventive Care";
  IF I = 1 THEN BENTYPE = "Prenatal Care";
  ELSE IF I = 2 THEN BENTYPE = "Mammography";
  ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
  ELSE IF I = 4 THEN BENTYPE = "Hypertension";
  /*ELSE IF I = 5 THEN BENTYPE = "Cholesterol Testing";*/ /*RSG 01/27/06*/
  ELSE IF I = 5 THEN DO;
    BENTYPE = "Composite"; /*RSG 02/2005*/
    score=score*100;
  END;;
  TIMEPD = "&YEAR";
  OUTPUT;
END;
RUN;

PROC FREQ DATA=SCORES;
  WHERE UPCASE(TRIM(MAJGRP)) IN ("PRIME ENROLLEES", "ENROLLEES WITH MILITARY PCM",
                                "ACTIVE DUTY", "ALL BENEFICIARIES");
  TABLES MAJGRP*REGCAT;
RUN;

DATA DTREND;
  SET INLIB.DTREND; by majgrp;
  WHERE UPCASE(TRIM(MAJGRP)) IN ("PRIME ENROLLEES", "ENROLLEES WITH MILITARY PCM",
                                "ACTIVE DUTY", "ALL BENEFICIARIES");
RUN;

/*
proc sort data=inlib.mtrend out=mtrend; by descending majgrp;
data mtrend;
set mtrend;
retain adj1 adj2 0;
if upcase(majgrp)="ALL BENEFICIARIES" then do;
adj1=cp&YR.bmk1; adj2=cp&EYR.bmk1; end;
proc print;
proc sort data=mtrend; by majgrp;
data mtrend(drop=adj1 adj2);
set mtrend;
retain tadj1 tadj2 0;
if _n_=1 then do;
tadj1=adj1;
tadj2=adj2;
end;
*/

DATA TREND1 (KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE semean TIMEPD SCORE SIG N_OBS N_WGT);
  FORMAT MAJGRP $30. REGION $25. REGCAT $42.
         BENEFIT $34. BENTYPE $50. TIMEPD $35.;

  SET inlib.CTREND
      DTREND
      INLIB.RTREND
      INLIB.STREND
      INLIB.MTREND;by majgrp;
/*
  if _n_=1 then do;
    adj1=tadj1;
    adj2=tadj2;
  end;
  retain adj1 adj2;
  score=100*((comp031*adj1/cp03bmk1)-(comp011*adj2/cp01bmk1));*/

/*RSG 02/2005 following code no longer needed - need trend for all

```

```

benefit level, not just composite*/
/* score=cmptrnd1;
SIG= SIGCPTR1;
N_OBS=DF_COMPL;
N_WGT=NWGTCL;
BENTYPE="Trend";
BENEFIT="Preventive Care";
OUTPUT;
*/
IF REGCAT='Out of Catchment Region 01' then REGCAT='Out of Catchment North Region';
IF REGCAT='Out of Catchment Region 02' then REGCAT='Out of Catchment South Region';
IF REGCAT='Out of Catchment Region 03' then REGCAT='Out of Catchment West Region';
IF REGCAT='Out of Catchment Region 04' then REGCAT='Out of Catchment OCONUS Region';

ARRAY SCORES{*} TRENDV1-TRENDV&CMPNUM1. CMPTRND1;
ARRAY SIGNIF{*} SIGTRND1-SIGTRND&CMPNUM1. SIGCPTR1;
ARRAY NOBS {*} DFSCOR1-DFSCOR&CMPNUM1. DF_COMPL;
ARRAY NWGT {*} NWGT1-NWGT&CMPNUM1. NWGTCL;
DO I = 1 TO 5; /*MJS 02/05/04*/
SCORE = SCORES{I};
SEMEAN=.;
SIG = SIGNIF{I};
N_OBS = NOBS{I};
N_WGT = NWGT{I};
BENEFIT = "Preventive Care";
IF I = 1 THEN BENTYPE = "Prenatal Care";
ELSE IF I = 2 THEN BENTYPE = "Mammography";
ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
ELSE IF I = 4 THEN BENTYPE = "Hypertension";
/*ELSE IF I = 5 THEN BENTYPE = "Cholesterol Testing";*/ /*RSG 01/27/06*/
ELSE IF I = 5 THEN DO;
BENTYPE = "Composite"; /*RSG 02/2005*/
*
score=score*100;
END;
TIMEPD = "Trend";
OUTPUT;
END;
RUN;

DATA TREND2(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE SCORE SIG TIMEPD);
FORMAT MAJGRP $30. REGION $25. REGCAT $42.
BENEFIT $34. BENTYPE $50. TIMEPD $35.;

SET INLIB.CTREND;

/*RSG 02/2005 hard code in benchmark trends for each measure -
comment out code for just composite trend benchmark*/
/* SCORE= TRNDBMK1;
SIG=.;
SEMEAN=.;
REGION="Benchmark";
REGCAT="Benchmark";
BENTYPE="Trend";
BENEFIT="Preventive Care";
OUTPUT;
*/

DO I = 1 TO 5; /*MJS 02/05/04*/
SCORE = 0;
SIG = .;
REGION = "Benchmark";
REGCAT = "Benchmark";
BENEFIT = "Preventive Care";
IF I = 1 THEN BENTYPE = "Prenatal Care";
ELSE IF I = 2 THEN BENTYPE = "Mammography";
ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
ELSE IF I = 4 THEN BENTYPE = "Hypertension";
/*ELSE IF I = 5 THEN BENTYPE = "Cholesterol Testing";*/ /*RSG 01/27/06*/
ELSE IF I = 5 THEN BENTYPE = "Composite";
TIMEPD = "Trend"; /*RSG 02/2005*/
OUTPUT;
END;
DROP I;
RUN;

```

```
DATA OUT.LOADMPR(KEEP=MAJGRP REGION REGCAT BENEFIT semean BENTYPE SCORE SIG
                N_OBS N_WGT TIMEPD);
  SET BENCHMKS TREND1 TREND2 SCORES INLIB.SMOKE;
RUN;
```

```
PROC FREQ DATA=OUT.LOADMPR;
  WHERE TIMEPD='Trend';
  TABLES BENTYPE*REGION/MISSING LIST;
RUN;
```


G.13 REPORTCARDS\MPR_ADULT2010\TRENDMPR.SAS - CALCULATE TREND AND PERFORM SIGNIFICANCE TESTS ON MPR SCORES - ANNUAL.

```

*****
*
* Project: DoD Reporting and Analysis 6244-410
* Program: TRENDMPR.SAS
* Author: Chris Rankin
* Date: 6/19/2000
*
* Modified: 1) 02/21/2001
* trend calculation changed
* 2) 01/29/2003 By Keith Rathbun, Chris Rankin: Updated to
* calculate trends based on 2000 to 2002.
* 3) 02/10/2004 By Mike Scott: Updated for 2003 Annual Report.
* 4) 02/2005 By Regina Gramss: Updated for 2004 Annual Report.
* added codes to use XSERVREG for region.
* 5) 02/2006 By Regina Gramss: Updated for 2005. Remove
* cholesterol as a measure.
*
* Purpose: Calculate trends from 2008 to 2010.
*
* Outputs: RTREND.sas7bdat
* MTREND.sas7bdat
* CTREND.sas7bdat
* STREND.sas7bdat
* DTREND.sas7bdat
*
* Inputs: RFINAL.sas7bdat
* CFINAL.sas7bdat
* MFINAL.sas7bdat
* SFINAL.sas7bdat
* DFINAL.sas7bdat
*
* Notes: 1) Next program is loadmpr.sas.
*
*****;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2;

%LET YR = 10;
%LET EYR = 08;

LIBNAME IN&YR ".";
LIBNAME IN&EYR "..\..\20&EYR.\ReportCards\MPR_Adult20&EYR.";
LIBNAME OUT ".";
LIBNAME LIBRARY "..\..\data\fmtlib";

%LET COMPNUM=7; /** number of variables - 02/2006 RSG - changed from 8 to 7 because
cholesterol dropped **/

**** Note: groups changed 6/16/2000 to correspond with ;
**** definition of CAHPS groups ;

*****;
* Beneficiary group note
* Eight groups Definitions
* _____;
* 1. Prime enrollees XINSCOV IN (1,2,6) AND H08007>=2
* 2. Enrollees w/mil PCM XENR_PCM IN (2,6) AND H08007>=2
* 3. Enrollees w/civ PCM XENR_PCM=3 AND H08007>=2
* 4. Nonenrollees XINSCOV IN (3)
* 5. Active duty BFGROUPP=1
* 6. Active duty dependents BFGROUPP=2
* 7. Retirees BFGROUPP IN (3,4)
* 8. All beneficiaries ALL
*****;

/** macro to merge final datasets together and calculate trends **/

%MACRO TRENDS(INDATA, OUTDATA);

PROC SORT DATA=IN&EYR.&INDATA;
BY MAJGRP REGION REGCAT;

```

```

RUN;

PROC SORT DATA=IN&YR..&INDATA;
  BY MAJGRP REGION REGCAT;
RUN;

DATA OUT.&OUTDATA;
  MERGE IN&YR..&INDATA(IN=IN_&YR.) IN&EYR..&INDATA(IN=IN_&EYR.);
  BY MAJGRP REGION REGCAT;
  IF IN_&YR. & IN_&EYR.;

  /*** calculate trends in the composite benchmarks ***/
  ARRAY BMK&YR.{*} CP&YR.BMK1 CP&YR.BMK2;
  ARRAY BMK&EYR.{*} CP&EYR.BMK1 CP&EYR.BMK2;
  ARRAY BMKTRND{*} TRNDBMK1 TRNDBMK2;

  DO J=1 TO 2;
    IF BMK&EYR.{J} > 0 THEN BMKTRND{J}=100*(BMK&YR.{J}-BMK&EYR.{J});
    ELSE BMKTRND{J}=. ;
  END;
  DROP J;

  /*** note-- don't use adjusted scores ***/
  ARRAY SCORE&YR.{*} PROP&YR.V1-PROP&YR.V&COMPNUM COMP&YR.1 COMP&YR.2;
  ARRAY SCORE&EYR.{*} PROP&EYR.V1-PROP&EYR.V&COMPNUM COMP&EYR.1 COMP&EYR.2;
  ARRAY SERR&YR.{*} SERR&YR.V1-SERR&YR.V&COMPNUM CP&YR.1SE CP&YR.2SE;
  ARRAY SERR&EYR.{*} SERR&EYR.V1-SERR&EYR.V&COMPNUM CP&EYR.1SE CP&EYR.2SE;
  ARRAY TREND{*} TRENDV1-TRENDV&COMPNUM CMPTRND1 CMPTRND2;
  ARRAY TSTAT{*} T_TRNDV1-T_TRNDV&COMPNUM T_CTRND1 T_CTRND2;
  ARRAY PVALUE{*} P_TRNDV1-P_TRNDV&COMPNUM P_CTRND1 P_CTRND2;
  ARRAY SIG{*} SIGTRND1-SIGTRND&COMPNUM SIGCPT1 SIGCPT2;
  ARRAY DEGFR&YR.{*} DF&YR.SCR1-DF&YR.SCR&COMPNUM DF&YR._CP1 DF&YR._CP2;
  ARRAY DEGFR&EYR.{*} DF&EYR.SCR1-DF&EYR.SCR&COMPNUM DF&EYR._CP1 DF&EYR._CP2;
  ARRAY DEGF{*} DFSCOR1-DFSCOR&COMPNUM DF_COMP1 DF_COMP2;
  ARRAY DENOM{*} DENOMT1-DENOMT&COMPNUM DENOMTC1 DENOMTC2;
  ARRAY DEN&EYR.{*} DEN&EYR.V1-DEN&EYR.V&COMPNUM CP&EYR.DEN1 CP&EYR.DEN2;
  ARRAY DEN&YR.{*} DEN&YR.V1-DEN&YR.V&COMPNUM CP&YR.DEN1 CP&YR.DEN2;
  ARRAY NWGT{*} NWGT1-NWGT&COMPNUM NWGT1 NWGT2;

  /*** setup t statistics, degrees of freedom ***/
  DO I=1 TO 9;
    IF SCORE&EYR.{I} GE 0 AND SCORE&YR.{I} GE 0 THEN DO;
      IF SCORE&EYR.{I} > 0 THEN TREND{I}=100*(SCORE&YR.{I}-SCORE&EYR.{I});
      ELSE TREND{I}=. ;
      DENOM{I}= SERR&EYR.{I}**2+SERR&YR.{I}**2;
      IF DENOM{I} > 0 THEN
        TSTAT{I}=(SCORE&YR.{I}-SCORE&EYR.{I})/SQRT(DENOM{I});
      ELSE TSTAT{I}=. ;
      DEGF{I}=MIN(DEGFR&YR.{I},DEGFR&EYR.{I});
      NWGT{I}=MIN(DEN&YR.{I},DEN&EYR.{I});
      IF DEGF{I}=0 THEN DEGF{I}=1;
      IF DEGF{I} IN (0, .) THEN
        PUT "MAJGRP=" MAJGRP "REGCAT=" REGCAT "REGION=" REGION
          "DEGFR&EYR.=" DEGFR&EYR.{I} "DEGFR&YR.=" DEGFR&YR.{I};
      PVALUE{I}=(1-PROBT(ABS(TSTAT{I}),DEGF{I}))*2;
      IF TREND{I}=. THEN SIG{I}=. ;
      ELSE IF TREND{I} NE . THEN DO;
        IF PVALUE{I} GE .05 THEN SIG{I}=0;
        IF PVALUE{I} < .05 THEN DO;
          IF TSTAT{I} > 0 THEN SIG{I}=1;
          IF TSTAT{I} < 0 & TSTAT{I} ne . THEN SIG{I}=-1;
        END;
      END;
    END;
  END;
  DROP I;
RUN;

%MEND TRENDS;

%TRENDS(MFINAL, MTREND);
%TRENDS(RFINAL, RTREND);
%TRENDS(CFINAL, CTREND);
%TRENDS(SFINAL, STREND);

```

```
%TRENDS(DFINAL, DTREND);
```

G.14.A LOADWEB\FAKE.SAS - GENERATE THE WEB LAYOUT/TEMPLATE FILE - ANNUAL.

```

/*****
/* PROJECT: 6244-410 - 2006 Annual Beneficiary Reports */
/* PROGRAM: FAKE.SAS */
/* PURPOSE: Generate Fake Data for Report Cards */
/* AUTHOR: Mark A. Brinkley */
/*
/* MODIFIED: 1) July 2000 By Eric Schone to utilize CACRPT and CATREP */
/* include files. */
/* 2) January 2002 By Keith Rathbun: Updated to support the */
/* 2000 Annual HCSDB format. */
/* 3) January 2003 By Keith Rathbun: Updated to support the */
/* 2002 Annual HCSDB format. Delete flu shot, increment */
/* previous years by 1, added 2002. */
/* 4) February 2004 By Mike Scott: Updated for 2003 Annual */
/* Report. Uncommented Flu Shot and changed it to */
/* Cholesterol. */
/* 5) February 2005 By Regina Gramss: Updated for 2004 */
/* annual report. Include smoking scores and use */
/* XSERVREG for region fields. */
/* 6) November 7, 2006 by Keith Rathbun: Updated for 2006. */
/* Added in the quarterly overseas updates. */
/* 7) November 13, 2007 by Keith Rathbun: Updated parameters */
/* for 2007. */
/* 8) November 5, 2008 by Mike Rudacille: Update parameters */
/* for 2008. */
/* 9) September 10, 2010 by Mike Rudacille: Update */
/* parameters for 2010. */
*****/

LIBNAME OUT '.';
LIBNAME IN '..\ReportCards\CAHPS_Adult2010\Data'; /** Changed to group8 location for revised
cacempl KRR 02-05-2004 ***/
LIBNAME LIBRARY '..\..\DATA\FMTLIB';

OPTIONS COMPRESS=YES NOFMterr;

%include "loadcahq.inc";

/*RSG 02/2005 added to make fake.sd2 with macros*/
%LET NUMQTR = 4; /*RSG 02/2005 - Numbering based off quarterly program*/
%LET PERIOD1 = 2008;
%LET PERIOD2 = 2009;
%LET PERIOD3 = 2010;
%LET PERIOD4 = Trend;

DATA TEMP;
SET IN.GROUP8(KEEP=XSERVIND XSERVAFF XTNEXREG USA CACSMPL); /*KRR 02/05/04*/
RUN;

*****
* CACSMPL FORMAT DEFINITIONS FOR REPORT CARD USE FACILITY NAME
* RSG - 02/2005 - USE CACR FORMAT FROM LIBRARY
*****;

proc freq data=temp;
table xservind*cacempl/ noprint out=temp2;
run;

data temp3;
length cafmt $42;
set temp2 end=last; by xservind;
caf=0;
where cacempl ne 9999;
if first.xservind then do;
cafmt=put(xservind,servrego.);
output;
end;
cafmt=put(cacempl,cacr.);
caf=1;
if count>1 & cafmt ne 'INV' then output;

```

```
if last then do;
  xservind=0;
  caf=0;
  cafmt='Benchmark';
  output;

  caf=1;

  xservind=16;
  cafmt = 'ARMY';
  output;

  xservind=17;
  cafmt = 'AIR FORCE';
  output;

  xservind=18;
  cafmt = 'NAVY';
  output;

  xservind=19;
  cafmt = 'OTHER';
  output;

  xservind=20;
  cafmt = 'NORTH';
  output;

  xservind=21;
  cafmt = 'SOUTH';
  output;

  xservind=22;
  cafmt = 'WEST';
  output;

  xservind=23;
  cafmt = 'OVERSEAS';
  output;

  xservind=24;
  cafmt = 'Europe Army';
  output;

  xservind=25;
  cafmt = 'Europe Air Force';
  output;

  xservind=26;
  cafmt = 'Europe Navy';
  output;

  xservind=27;
  cafmt = 'Europe Other';
  output;

  xservind=28;
  cafmt = 'Pacific Army';
  output;

  xservind=29;
  cafmt = 'Pacific Air Force';
  output;

  xservind=30;
  cafmt = 'Pacific Navy';
  output;

  xservind=31;
  cafmt = 'Pacific Other';
  output;

  xservind=32;
```

```

cafmt = 'Latin America Army';
output;

xservind=33;
cafmt = 'Latin America Air Force';
output;

xservind=34;
cafmt = 'Latin America Navy';
output;

xservind=35;
cafmt = 'Latin America Other';
output;

xservind=36;
cafmt = 'USA MHS';
output;
end;
run;

proc sort; by xservind caf cafmt; run;

data temp4;
  set temp3 end=last;
  start=_n_; label=cafmt; type='N'; fmtname='ROWMAT';
  if last then call symput('x',_n_);
run;

proc format cntlin=temp4;
proc print data=temp4;

RUN;

%MACRO FAKE;
DATA FAKE;

KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD I K;   ***MJS 06/18/03 Added TIMEPD;

LENGTH MAJGRP $ 30
        REGION $ 25   /*RSG 01/2005 lengthen format to fit service affiliation*/
        REGCAT $ 42
        BENTYPE $ 50
        TIMEPD $ 5;   ***MJS 06/18/03 Added TIMEPD;

DO I=1 TO 8;          ** 8 Major groups **;

MAJGRP=PUT(I,MAJGRP.);

DO J=1 TO &x;         ** Region/catchment **;

REGCAT=PUT(J,ROWMAT.);
RETAIN REGION;

**RSG 01/2005 Change code to fit XSERVREG values**;
IF REGCAT IN ('ARMY','NAVY','AIR FORCE','OTHER',
             'NORTH','SOUTH','WEST','OVERSEAS','USA MHS',
             'Overseas Europe','Overseas Pacific','Overseas Latin America',
             'North Army','North Navy','North Air Force','North Other',
             'South Army','South Navy','South Air Force','South Other',
             'West Army','West Navy','West Air Force','West Other',
             'Europe Army','Europe Navy','Europe Air Force','Europe Other',
             'Pacific Army','Pacific Navy','Pacific Air Force','Pacific Other',
             'Latin America Army','Latin America Navy','Latin America Air Force','Latin
America Other')
THEN REGION=REGCAT;

DO K=1 TO 11;       ** 11 Benefits **;   /** 12-13 MAB ***/

BENEFIT=PUT(K,BEN.);

```

```

IF K=1 THEN DO;
  DO L=1 TO 3;
    BENTYPE=PUT(L,GETNCARE.);    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
    %DO Q = 1 %TO &NUMQTR;    ***that replaced BENTYPE hard assignment;
    %DO Q = 1 %TO &NUMQTR;    ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
    TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
    %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
  END;
END;
ELSE IF K=2 THEN DO;
  DO L=1 TO 3;
    BENTYPE=PUT(L,GETCAREQ.);    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
    %DO Q = 1 %TO &NUMQTR;    ***that replaced BENTYPE hard assignment;
    %DO Q = 1 %TO &NUMQTR;    ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
    TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
    %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
  END;
END;
ELSE IF K=3 THEN DO;
  DO L=1 TO 5;
    BENTYPE=PUT(L,HOWWELL.);    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
    %DO Q = 1 %TO &NUMQTR;    ***that replaced BENTYPE hard assignment;
    %DO Q = 1 %TO &NUMQTR;    ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
    TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
    %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
  END;
END;
ELSE IF K=4 THEN DO;
  DO L=1 TO 3;
    BENTYPE=PUT(L,CUSTSERV.);    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
    %DO Q = 1 %TO &NUMQTR;    ***that replaced BENTYPE hard assignment;
    %DO Q = 1 %TO &NUMQTR;    ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
    TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
    %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
  END;
END;
ELSE IF K=5 THEN DO;
  DO L=1 TO 3;
    BENTYPE=PUT(L,CLMSPROC.);    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
    %DO Q = 1 %TO &NUMQTR;    ***that replaced BENTYPE hard assignment;
    %DO Q = 1 %TO &NUMQTR;    ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
    TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
    %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
  END;
END;
ELSE IF K=6 THEN DO;
  %DO Q = 1 %TO &NUMQTR;    ***RSG 02/2005 Changed start point to 2 for annual - only
go back 2 years;
  BENTYPE = "Composite";    ***MJS 07/07/03 Added;
  TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
  %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
END;
ELSE IF K=7 THEN DO;
  %DO Q = 1 %TO &NUMQTR;    ***RSG 02/2005 Changed start point to 2 for annual - only
go back 2 years;
  BENTYPE = "Composite";    ***MJS 07/07/03 Added;
  TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
  %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
END;
ELSE IF K=8 THEN DO;
  %DO Q = 1 %TO &NUMQTR;    ***RSG 02/2005 Changed start point to 2 for annual - only
go back 2 years;
  BENTYPE = "Composite";    ***MJS 07/07/03 Added;
  TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
  %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
END;
ELSE IF K=9 THEN DO;

```



```

IF MAJGRP = "All Users" THEN LINEUP=8;

IF REGION = "Benchmark" THEN LINEUP1=1;
ELSE IF UPCASE(REGION) = 'USA MHS' THEN LINEUP1=2;

ELSE IF UPCASE(REGION) = 'ARMY' THEN LINEUP1=3;
ELSE IF UPCASE(REGION) = 'NAVY' THEN LINEUP1=4;
ELSE IF UPCASE(REGION) = 'AIR FORCE' THEN LINEUP1=5;
ELSE IF UPCASE(REGION) = 'OTHER' THEN LINEUP1=6;

ELSE IF UPCASE(REGION) = 'NORTH' THEN LINEUP1=7;
ELSE IF UPCASE(REGION) = 'NORTH ARMY' THEN LINEUP1=8;
ELSE IF UPCASE(REGION) = 'NORTH NAVY' THEN LINEUP1=9;
ELSE IF UPCASE(REGION) = 'NORTH AIR FORCE' THEN LINEUP1=10;
ELSE IF UPCASE(REGION) = 'NORTH OTHER' THEN LINEUP1=11;

ELSE IF UPCASE(REGION) = 'SOUTH' THEN LINEUP1=12;
ELSE IF UPCASE(REGION) = 'SOUTH ARMY' THEN LINEUP1=13;
ELSE IF UPCASE(REGION) = 'SOUTH NAVY' THEN LINEUP1=14;
ELSE IF UPCASE(REGION) = 'SOUTH AIR FORCE' THEN LINEUP1=15;
ELSE IF UPCASE(REGION) = 'SOUTH OTHER' THEN LINEUP1=16;

ELSE IF UPCASE(REGION) = 'WEST' THEN LINEUP1=17;
ELSE IF UPCASE(REGION) = 'WEST ARMY' THEN LINEUP1=18;
ELSE IF UPCASE(REGION) = 'WEST NAVY' THEN LINEUP1=19;
ELSE IF UPCASE(REGION) = 'WEST AIR FORCE' THEN LINEUP1=20;
ELSE IF UPCASE(REGION) = 'WEST OTHER' THEN LINEUP1=21;

ELSE IF UPCASE(REGION) = 'OVERSEAS' THEN LINEUP1=22;

ELSE IF UPCASE(REGION) = 'OVERSEAS EUROPE' THEN LINEUP1=23;
ELSE IF UPCASE(REGION) = 'EUROPE ARMY' THEN LINEUP1=24;
ELSE IF UPCASE(REGION) = 'EUROPE NAVY' THEN LINEUP1=25;
ELSE IF UPCASE(REGION) = 'EUROPE AIR FORCE' THEN LINEUP1=26;
ELSE IF UPCASE(REGION) = 'EUROPE OTHER' THEN LINEUP1=27;

ELSE IF UPCASE(REGION) = 'OVERSEAS PACIFIC' THEN LINEUP1=28;
ELSE IF UPCASE(REGION) = 'PACIFIC ARMY' THEN LINEUP1=29;
ELSE IF UPCASE(REGION) = 'PACIFIC NAVY' THEN LINEUP1=30;
ELSE IF UPCASE(REGION) = 'PACIFIC AIR FORCE' THEN LINEUP1=31;
ELSE IF UPCASE(REGION) = 'PACIFIC OTHER' THEN LINEUP1=32;

ELSE IF UPCASE(REGION) = 'OVERSEAS LATIN AMERICA' THEN LINEUP1=33;
ELSE IF UPCASE(REGION) = 'LATIN AMERICA ARMY' THEN LINEUP1=34;
ELSE IF UPCASE(REGION) = 'LATIN AMERICA NAVY' THEN LINEUP1=35;
ELSE IF UPCASE(REGION) = 'LATIN AMERICA AIR FORCE' THEN LINEUP1=36;
ELSE IF UPCASE(REGION) = 'LATIN AMERICA OTHER' THEN LINEUP1=37;

ELSE LINEUP1=38;

IF REGION=REGCAT THEN LINEUP2=1;
ELSE LINEUP2=2;

RUN;    ***MJS 07/03/03 Changed BENTYPE to TIMEPD;

PROC SORT DATA=ORDER1 OUT=OUT.FAKE (DROP=LINEUP LINEUP1 LINEUP2);
BY LINEUP LINEUP1 LINEUP2 REGCAT;
RUN;

PROC FREQ;
TABLES MAJGRP REGION REGCAT BENTYPE BENEFIT;
RUN;

```

G.14.B LOADWEB\MERGFINL.SAS - MERGE THE FINAL CAHPS AND MPR SCORES DATABASES INTO THE WEB LAYOUT - ANNUAL.

```

*****
*
* PROGRAM:  MERGFINL.SAS
* TASK:    2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Merge the final CAHPS and MPR Scores Databases
*          into the WEB layout preserving the order of the FAKE.SD2.
*
* WRITTEN: 06/07/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 01/09/2002 BY KEITH RATHBUN: Updated to support the 2000
*            annual HCSDB.
*            2) 01/07/2002 BY KEITH RATHBUN: Updated to support the 2002
*            annual HCSDB.
*            3) 02/08/2004 BY CHRIS RANKIN: Updated to support the 2003
*            annual HCSDB.
*            4) 11/07/2006 BY KEITH RATHBUN: Updated to support the 2006
*            annual HCSDB.
*            4) 11/13/2007 BY KEITH RATHBUN: Updated to support the 2007
*            annual HCSDB.
*            5) 11/5/2008 BY MIKE RUDACILLE: Updated to support the 2008
*            annual HCSDB.
*            6) 09/10/2009 BY MIKE RUDACILLE: Updated to support the 2010
*            annual HCSDB.
*
* INPUTS:  1) MPR and CAHPS Individual and Composite data sets with adjusted
*            scores, and benchmark data for DoD HCS.
*            - LOADMPR.SD2 - MPR Scores Databases
*            - LOADCAHP.SD2 - CAHPS Scores Databases
*            - BENCHA04.SD2 - CAHPS Benchmark Databases
*            - FAKE.SD2 - WEB Layout in Column order
*
* OUTPUT:  1) MERGFINL.SD2 - Combined Scores Database in WEB layout
*
* NOTES:
*
* 1) The following steps need to be run prior to this
*    program (2005,2006,2007):
* - STEP1.SAS - Recode questions and generate CAHPS group files
* - STEP2.SAS - Calculate CAHPS individual adjusted scores for groups 1-8
* - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
* - PRVCOMP.SAS - Calculate MPR individual and composite scores
* - SMOKING_BMI.SAS - Calculate MPR smoking and BMI scores
* - BENCHA01-04.SAS - Convert Benchmark Scores into WEB layout
* - LOADCAHP.SAS - Convert CAHPS Scores Database into WEB layout
*
* 2) The output file (MERGFINL.SD2) will be run through the
*    MAKEHTML.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN01  ".";
LIBNAME IN02  ".";
LIBNAME IN03  "..\..\..\2009\Programs\2008\LOADWEB";
LIBNAME IN04  "..\..\..\2009\Programs\LOADWEBV4";
LIBNAME IN05  "..\REPORTCARDS\MPR_ADULT2010";
LIBNAME IN06  "..\2008\REPORTCARDS\MPR_ADULT2008";
LIBNAME IN07  "..\2009\REPORTCARDSV4\MPR_ADULT2009";
LIBNAME IN08  "..\BENCHMARK\DATA";
LIBNAME IN09  "..\..\..\2009\Programs\2008\BENCHMARK\DATA";
LIBNAME IN10  "..\..\..\2009\Programs\BENCHMARKV4\DATA";
LIBNAME OUT  ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

%LET PERIOD8 = 2008;
%LET PERIOD9 = 2009;
%LET PERIOD10 = 2010;

*****

```

```

* Construct ORDERing variable from WEB layout
*****;
DATA ORDER;
  SET IN01.FAKE;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
  KEEP KEY ORDER;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;

*****
* Merge the Scores Databases
*****;
DATA MERGFINL;
  SET IN02.LOADCAHP (IN=INCAHP10)
      IN03.LOADCAHP (IN=INCAHP08)
      IN04.LOADCAHPc (IN=INCAHP09)
      IN05.LOADMPR (IN=INMPR10)
      IN06.LOADMPR (IN=INMPR08)
      IN07.LOADMPR (IN=INMPR09)
      IN08.BENCHA04 (IN=INBEN10)
      IN09.BENCHA04 (IN=INBEN08)
      IN10.BENCHA04c (IN=INBEN09);
  SVCAHP10 = INCAHP10;
  SVCAHP08 = INCAHP08;
  SVCAHP09 = INCAHP09;
  SVMPR10 = INMPR10 ;
  SVMPR08 = INMPR08 ;
  SVMPR09 = INMPR09 ;
  SVBEN10 = INBEN10 ;
  SVBEN08 = INBEN08 ;
  SVBEN09 = INBEN09 ;

  LENGTH KEY $200;

  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
  IF SCORE = . THEN DELETE;
  IF TRIM(REGCAT) = "INV" THEN DELETE;
RUN;

PROC SORT DATA=MERGFINL; BY KEY; RUN;

*****
* Append ORDERing variable to the merged Scores database file
*****;
DATA MERGFINL2 out.MISSING;
  MERGE MERGFINL(IN=IN1) ORDER(IN=IN2);
  BY KEY;

  LENGTH FLAG $30;
  IF IN1 AND IN2 THEN FLAG = "IN SCORES DB AND LAYOUT";
  ELSE IF IN1 THEN FLAG = "IN SCORES DB ONLY";
  ELSE IF IN2 THEN FLAG = "IN LAYOUT ONLY";

  LENGTH SOURCE $30;
  IF SVCAHP10 = 1 THEN SOURCE = "CAHPS &PERIOD10.";
  IF SVCAHP09 = 1 THEN SOURCE = "CAHPS &PERIOD9.";
  IF SVCAHP08 = 1 THEN SOURCE = "CAHPS &PERIOD8.";
  IF SVMPR10 = 1 THEN SOURCE = "MPR &PERIOD10. ";
  IF SVMPR09 = 1 THEN SOURCE = "MPR &PERIOD9. ";
  IF SVMPR08 = 1 THEN SOURCE = "MPR &PERIOD8. ";
  IF SVBEN10 = 1 THEN SOURCE = "BENCHMARK &PERIOD10.";
  IF SVBEN09 = 1 THEN SOURCE = "BENCHMARK &PERIOD9.";
  IF SVBEN08 = 1 THEN SOURCE = "BENCHMARK &PERIOD8.";

  IF IN1 AND NOT IN2 THEN OUTPUT out.MISSING; *Missing from layout;
  IF IN1 AND ORDER NE . THEN OUTPUT MERGFINL2;
RUN;

```

```

*****
* Reorder file according to WEB layout
*****;
PROC SORT DATA=MERGFIL2 OUT=OUT.MERGFIL; BY ORDER; RUN;

DATA FAKE;
SET IN01.FAKE;
ORDER = _N_;
RUN;

DATA LAYONLY;
MERGE FAKE(IN=IN1) OUT.MERGFIL(IN=IN2 KEEP=ORDER);
BY ORDER;
IF IN1 AND NOT IN2;
RUN;

TITLE1 "2010 DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: MERGFIL.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB Layout";
TITLE4 "Program Outputs: MERGFIL.sas7bdat - Merged Final Scores Database for input to
MAKEHTML.SAS";

TITLE5 "MERGFIL.sas7bdat Data source counts";
PROC FREQ DATA=OUT.MERGFIL;
TABLES SOURCE FLAG

SVCAHP10 SVCAHP09 SVCAHP08
SVMPR10 SVMPR09 SVMPR08
SVBEN10 SVBEN09 SVBEN08

SVCAHP10 * SVCAHP09 * SVCAHP08 *
SVMPR10 * SVMPR09 * SVMPR08 *
SVBEN10 * SVBEN09 * SVBEN08

/MISSING LIST;
RUN;

TITLE5 "MERGFIL.sas7bdat Data attribute counts";
PROC FREQ DATA=OUT.MERGFIL;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
REGION*REGCAT
/MISSING LIST;
RUN;

TITLE5 "LAYONLY.sas7bdat Data attribute counts";
PROC FREQ DATA=LAYONLY;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
REGION*REGCAT
/MISSING LIST;
RUN;

TITLE5 "No matching record found in LAYOUT file (FAKE.sas7bdat)";
PROC PRINT DATA=OUT.MISSING;
VAR MAJGRP REGION REGCAT BENTYPE BENEFIT;
RUN;

```

G.15 LOADWEB\CONUS_A_WITHOFFSET.SAS - GENERATE CAHPS CONUS SCORES AND PERFORM SIGNIFICANCE TESTS - ANNUAL.

```

*****
*
* PROGRAM: CONUS_Q.SAS
* TASK: ANNUAL DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE: Generate CAHPS CONUS scores and perform significance tests.
*
* WRITTEN: 11/13/2000 BY KEITH RATHBUN, Adapted from CONUS_A.SAS.
* Merged SIGNIF_A.SAS functionality.
*
* MODIFIED: 1) 01/07/2002 BY KEITH RATHBUN, Updated for 2000 annual consumer
* reports.
* 2) 01/27/2003 BY KEITH RATHBUN, Updated for 2002 annual consumer
* reports.
* 3) 02/08/2004 BY CHRIS RANKIN, Updated for 2003 annual consumer
* reports.
* 4) 11/14/2007 BY KEITH RATHBUN, Updated for 2007 annual consumer
* reports.
* 5) 09/10/2010 BY MIKE RUDACILLE, Updated for 2010 annual report.
*
* INPUTS: 1) MERGFINL.SD2 - Scores Database in WEB Layout
* 2) FAKE.SD2 - Scores Database WEB Layout
* 3) CONUS_A.SD2 - Previous years Combined CAHPS/MPR Scores Database in WEB layout
*
* OUTPUT: 1) CONUS_Q.SD2 - Combined CAHPS/MPR Scores Database in WEB layout
* 2) LT30Q.SD2 - Records with <= 30 observations
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
* - STEP1Q.SAS - Recode questions and generate group files
* - STEP2.SAS - Calculate individual adjusted scores for group 1-8
* - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
* - MERGFINL.SAS - Merge the final CAHPS and MPR Scores Databases
*
*****
* Assign data libraries and options
*****;
LIBNAME IN1 ".";
LIBNAME OUT ".";
LIBNAME OFF20091 "..\..\2009\Programs\BenchmarkV4\data";
LIBNAME OFF20092 "..\2009\TBenchV4\data";
LIBNAME OFF20081 "..\..\2009\Programs\2008\Benchmark\data";
LIBNAME OFF20082 "..\2008\Bench4\data";

*LIBNAME IN1 V612 "l:\2005\programs\loadweb";
*LIBNAME OUT V612 "l:\2005\programs\loadweb";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MLOGIC MPRINT;

*****
*****
*
* Process Macro Input Parameters:
*
* 1) BENTYPE = Benefit Type
* 2) MAJGRP = Major Group
* 3) TYPE = INDIVIDUAL or COMPOSITE
* 4) BENEFIT = COMPOSITE Benefit Type
*
*****
*****;
* Set up empty template file for data merge purposes and set first time flag
*****;
%MACRO OFFSET(BENTYPE=, BENEFIT=, YEAR=);
%IF &YEAR=2009 %THEN %DO;
PROC SORT DATA=OFF&YEAR.1.BENCHA04C OUT=CASE; BY MAJGRP BENEFIT BENTYPE;
PROC SORT DATA=OFF&YEAR.2.BENCHA04C OUT=CASE2; BY MAJGRP BENEFIT BENTYPE;
%END;
%ELSE %DO;
PROC SORT DATA=OFF&YEAR.1.BENCHA04 OUT=CASE; BY MAJGRP BENEFIT BENTYPE;

```

```

PROC SORT DATA=OFF&YEAR.2.BENCHA04 OUT=CASE2; BY MAJGRP BENEFIT BENTYPE;
%END;
DATA CASE;
MERGE CASE CASE2(RENAME=(SCORE=SCORE2)); BY MAJGRP BENEFIT BENTYPE;
IF MAJGRP='All Beneficiaries' & BENTYPE="&BENTYPE" & BENEFIT="&BENEFIT";

DSCORE=SCORE2-SCORE;
RUN;
DATA _NULL_;
SET CASE;
CALL SYMPUT("OFFSET",DSCORE);
RUN;
DATA SIGTEST1;
SET SIGTEST1;
IF BENTYPE="&BENTYPE" & BENEFIT="&BENEFIT" & TIMEPD="&YEAR" THEN SCORE=SCORE+&OFFSET;
RUN;
DATA SIGTEST2;
SET SIGTEST2;
IF BENTYPE="&BENTYPE" & BENEFIT="&BENEFIT" & TIMEPD="&YEAR" THEN SCORE=SCORE+&OFFSET;
RUN;

%MEND;

%LET DSN = MERGFINL;

DATA INIT;
  SET IN1.&DSN;
  DELETE;
RUN;
%LET FLAG = 0;

%MACRO PROCESS(BENTYPE=,MAJGRP=,TYPE=,BENEFIT=);
DATA TEMP;
  SET PRETEMP END=FINISHED;
  %IF "&TYPE" = "INDIVIDUAL" %THEN %DO;
    WHERE BENTYPE = "&BENTYPE" AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
      REGION NOT IN("Benchmark","USA MHS") AND
      REGCAT NOT IN("Benchmark","USA MHS") AND
      REGION NOT IN ("ARMY","AIR FORCE","NAVY","OTHER");
  %END;
  %ELSE %IF "&TYPE" = "COMPOSITE" %THEN %DO;
    WHERE BENTYPE = &BENTYPE AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
      BENEFIT = "&BENEFIT" AND
      REGION NOT IN("Benchmark","USA MHS") AND
      REGCAT NOT IN("Benchmark","USA MHS") AND
      REGION NOT IN ("ARMY","AIR FORCE","NAVY","OTHER");
  %END;
  %ELSE %DO;
    PUT "ERROR: Invalid Type = &TYPE";
  %END;

  IF SUBSTR(REGION,1,5) IN ('North','South') THEN DO;
    IF SUBSTR(REGION,1,5)='North' THEN REGCON=1;
    ELSE IF SUBSTR(REGION,1,5)='South' THEN REGCON=2;
    TOTCON=1;
    IF SUBSTR(REGION,7,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,7,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,7,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,4)='West' THEN DO;
    REGCON=3;
    TOTCON=1;
    IF SUBSTR(REGION,6,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,6,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,6,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,6)='Europe' THEN DO;
    REGCON=4;
    TOTCON=2;
    IF SUBSTR(REGION,8,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,8,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,8,4)='Navy' THEN SERVICE=3;

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```

ELSE SERVICE=4;
END;
ELSE IF SUBSTR(REGION,1,7)='Pacific' THEN DO;
REGCON=5;
TOTCON=2;
IF SUBSTR(REGION,9,4)='Army' THEN SERVICE=1;
ELSE IF SUBSTR(REGION,9,9)='Air Force' THEN SERVICE=2;
ELSE IF SUBSTR(REGION,9,4)='Navy' THEN SERVICE=3;
ELSE SERVICE=4;
END;
ELSE IF SUBSTR(REGION,1,13)='Latin America' THEN DO;
REGCON=6;
TOTCON=2;
IF SUBSTR(REGION,15,4)='Army' THEN SERVICE=1;
ELSE IF SUBSTR(REGION,15,9)='Air Force' THEN SERVICE=2;
ELSE IF SUBSTR(REGION,15,4)='Navy' THEN SERVICE=3;
ELSE SERVICE=4;
END;
END;

RUN;

*****;
* RSG 01/2005 Calc. total Service Affiliation Scores *;
*****;
PROC SORT DATA=TEMP;
BY SERVICE;

DATA TEMP2;
SET TEMP;
BY SERVICE;
length key $200;
IF FIRST.SERVICE THEN DO;
SUMSCOR1 = 0; RETAIN SUMSCOR1;
SUMWGT1 = 0; RETAIN SUMWGT1;
SUMSE2 = 0; RETAIN SUMSE2;
SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN N_OBS1;
END;

IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
IF N_OBS NE . THEN N_OBS1 + N_OBS;

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;

IF LAST.SERVICE THEN DO;

IF SUMWGT1 NOTIN (.,0) THEN DO;
SCORE = SUMSCOR1/SUMWGT1;
SEMEAN = SQRT(SUMSE2)/SUMWGT1;
END;
ELSE DO;
SCORE = .;
SEMEAN = .;
END;

N_OBS = N_OBS1;
N_WGT = SUMWGT1;
SOURCE = "USA";
FLAG = "USA";
IF SERVICE=1 THEN REGION = "ARMY";
IF SERVICE=2 THEN REGION = "AIR FORCE";
IF SERVICE=3 THEN REGION = "NAVY";
IF SERVICE=4 THEN REGION = "OTHER";

REGCAT = REGION;
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
OUTPUT;
END;

```

```

RUN;
*****
* RSG 01/2005 Calc. Total Region scores *;
*****;
PROC SORT DATA=TEMP;
BY REGCON;
DATA TEMP3;
  SET TEMP;
  BY REGCON;
  length key $200;
  IF FIRST.REGCON THEN DO;
    SUMSCOR1 = 0;    RETAIN SUMSCOR1;
    SUMWGT1 = 0;    RETAIN SUMWGT1;
    SUMSE2 = 0;    RETAIN SUMSE2;
    SUMWGT2 = 0;    RETAIN SUMWGT2;
    N_OBS1 = 0;    RETAIN N_OBS1;
  END;

  IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
  IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
  IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
  IF N_OBS NE . THEN N_OBS1 = N_OBS1 + N_OBS;

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
  FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY;    ***MJS 07/08/03 Added TIMEPD;

  IF LAST.REGCON THEN DO;

    IF SUMWGT1 NOTIN (.,0) THEN DO;
      SCORE = SUMSCOR1/SUMWGT1;
      SEMEAN = SQRT(SUMSE2)/SUMWGT1;
    END;
    ELSE DO;
      SCORE = .;
      SEMEAN = .;
    END;
    N_OBS = N_OBS1;
    N_WGT = SUMWGT1;
    SOURCE = "REGION";
    FLAG = "REGION";
    IF REGCON=1 THEN REGION = "NORTH";
    IF REGCON=2 THEN REGION = "SOUTH";
    IF REGCON=3 THEN REGION = "WEST";
    IF REGCON=4 THEN REGION = "Overseas Europe";
    IF REGCON=5 THEN REGION = "Overseas Pacific";
    IF REGCON=6 THEN REGION = "Overseas Latin America";
    REGCAT = REGION;
    KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/08/03 Added TIMEPD;
    OUTPUT;
  END;
RUN;

*****
* RSG 01/2005 Calc. Total CONUS Scores *;
*****;
PROC SORT DATA=TEMP;
BY TOTCON;
DATA TEMP4;
  SET TEMP END=FINISHED;BY TOTCON;
  length key $200;
  IF FIRST.Totcon THEN DO;
    SUMSCOR1 = 0;    RETAIN SUMSCOR1;
    SUMWGT1 = 0;    RETAIN SUMWGT1;
    SUMSE2 = 0;    RETAIN SUMSE2;
    SUMWGT2 = 0;    RETAIN SUMWGT2;
    N_OBS1 = 0;    RETAIN N_OBS1;
  END;
  *****
  * Calculate for CONUS and OCONUS
  *****;

  IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);

```



```

IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
IF N_OBS NE . THEN N_OBS1 = N_OBS;

IF LAST.TOTCON THEN GOTO FINISHED;
RETURN;

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;

FINISHED:
IF SUMWGT1 NOTIN (.,0) THEN DO;
    SCORE = SUMSCOR1/SUMWGT1;
    SEMEAN = SQRT(SUMSE2)/SUMWGT1;
END;
ELSE DO;
    SCORE = .;
    SEMEAN = .;
END;
N_OBS = N_OBS1;
N_WGT = SUMWGT1;
IF TOTCON=1 THEN DO;
    SOURCE = "USA";
    FLAG = "USA";
    REGION = "USA MHS";
END;
IF TOTCON=2 THEN DO;
    SOURCE="OVERSEAS";
    FLAG="OVERSEAS";
    REGION="OVERSEAS";
END;
REGCAT = REGION;
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
    UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
    UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
OUTPUT;
RUN;

%IF &FLAG = 0 %THEN %DO;
    DATA FINAL;
        SET INIT TEMP2 TEMP3 TEMP4;
    RUN;
%END;
%ELSE %DO;
    DATA FINAL;
        SET FINAL TEMP2 TEMP3 TEMP4;
    RUN;
%END;
%LET FLAG = 1;

%MEND;

%MACRO CALLIT(TIMEPD=);

DATA PRETEMP;
SET IN1.&DSN.;
IF TIMEPD="&TIMEPD";
RUN;

*****
* Create CONUS for Active Duty - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Active Duty Dependents - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Enrollees with Civilian PCM - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Enrollees with Military PCM - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);

```

```

%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Non-enrolled Beneficiaries - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Prime Enrollees - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Retirees and Dependents - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);

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```

%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);

```

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*****

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* Create CONUS for All Beneficiaries - Individual

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*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

```

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*****

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* Process Quarterly CONUS Composites

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*****

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* Create CONUS for Claims Processing - Quarterly

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*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Claims
Processing); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Claims
Processing);

```

```

*****

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```

* Create CONUS for Customer Service - Quarterly

```

```

*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty ,
TYPE=COMPOSITE,BENEFIT=Customer Service); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to
BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Customer Service);

```

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*****

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* Create CONUS for Getting Care Quickly - Quarterly

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```

*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";

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%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents      , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees            , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents    , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries          , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);

*****
* Create CONUS for Getting Needed Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty                , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);    ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents    , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees           , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents    , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries          , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);

*****
* Create CONUS for Health Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty                , TYPE=COMPOSITE,BENEFIT=Health
Care);    ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents    , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees           , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents    , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries          , TYPE=COMPOSITE,BENEFIT=Health
Care);

*****
* Create CONUS for Health Plan - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty                , TYPE=COMPOSITE,BENEFIT=Health
Plan);    ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents    , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees           , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents    , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries          , TYPE=COMPOSITE,BENEFIT=Health
Plan);

```

```

*****
* Create CONUS for How Well Doctors Communicate - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);

```

```

*****
* Create CONUS for Primary Care Manager - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);

```

```

*****
* Create CONUS for Specialty Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Specialty Care);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to
BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);

```

```

%MEND;
%CALLIT(TIMEPD=2010); /*KRR 11/14/2007*/
%CALLIT(TIMEPD=2009); /*KRR 11/14/2007*/
%CALLIT(TIMEPD=2008); /*KRR 11/14/2007*/

```

```

*****
* Extract ORDER and KEY from the WEB Layout file. TEMPQ will be used
* as place holders for missing records. FAKE will be used for adding
* new records.
*****;

```

```

DATA FAKE;
  SET IN1.FAKE;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  LENGTH KEY $200.;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
  IF BENEFIT='Total' THEN DELETE;

RUN;
PROC SORT DATA=FAKE OUT=TEMPQ;          BY KEY; RUN;
PROC SORT DATA=FAKE(KEEP=ORDER KEY); BY KEY; RUN;

*****
* Append BENCHMARK records to CAHPS records and perform significance tests
*****;
DATA BENCHMRK(KEEP=MAJGRP BENEFIT BENTYPE SEMEAN SCORE timepd);
  SET IN1.&DSN;
  WHERE REGION = "Benchmark" AND SVMPR08=0 AND SVMPR09=0 AND SVMPR10=0; /*KRR 11/14/2007*/
RUN;
Data abnchmrk(keep=benefit bentype timepd ascore);
set benchmrk;
where majgrp='All Beneficiaries';
rename score=ascore;
run;
proc sort; by benefit bentype timepd;
proc sort data=benchmrk; by benefit bentype timepd;
data benchmrk;
merge benchmrk abnchmrk; by benefit bentype timepd;

PROC SORT DATA=BENCHMRK; BY MAJGRP BENEFIT BENTYPE timepd; RUN;

PROC SORT DATA=FINAL; BY KEY; RUN;

DATA CONUS_Q;
  MERGE FINAL(IN=IN1 DROP=ORDER) FAKE(IN=IN2);
  BY KEY;
  IF IN1;
RUN;
PROC SORT DATA=CONUS_Q; BY MAJGRP BENEFIT BENTYPE timepd; RUN;

*****
* Perform significance tests for CONUS scores
*****;
DATA SIGTEST1;
  MERGE CONUS_Q(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE timepd;
  LENGTH KEY $200.;

  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1));
  ELSE TEST = .;
  SIG = 0;
  IF TEST < 0.05 THEN SIG = 1;
  IF SCORE < BSCORE THEN SIG = -SIG;

  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
  SOURCE = "USA_Q";
  FLAG = "USA_Q";
  score=score+ascore-bscore;
  IF SIN;
RUN;

*****
* Extract CAHPS scores to perform significance tests
*****;
DATA CAHPS MPR;
  SET IN1.&DSN;
  *****

```

```

* Significance tests have already been performed for MPR scores,
* so remove from file.
*****;

IF SVMPR08 = 1|svmpr09=1|svmpr10=1 THEN OUTPUT MPR; /*KRR 11/14/2007*/
IF SVMPR08 = 0 & svmpr09 = 0 & svmpr10 = 0 THEN OUTPUT CAHPS; /*KRR 11/14/2007*/
RUN;

PROC SORT DATA=CAHPS;
  BY MAJGRP BENEFIT BENTYPE timepd;
RUN;

*****
* Perform significance tests for CAHPS scores
*****;
DATA SIGTEST2;
  MERGE CAHPS(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE timepd;

  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1));
  ELSE TEST = .;
  SIG = 0;
  IF N_OBS >= 30 AND TEST < 0.05 THEN SIG = 1;
  IF SCORE < BSCORE THEN SIG = -SIG;
  IF SIN;
  score=score+ascore-bscore;
RUN;

%MACRO CALLIT(TIMEPD);
%OFFSET(BENTYPE=Composite,BENEFIT=Specialty Care,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Composite,BENEFIT=Primary Care Manager,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Composite,BENEFIT=Health Plan,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Composite,BENEFIT=Health Care,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Composite,BENEFIT=Getting Needed Care,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Composite,BENEFIT=How Well Doctors Communicate,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Composite,BENEFIT=Getting Care Quickly,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Composite,BENEFIT=Claims Processing,YEAR=&TIMEPD);

%OFFSET(BENTYPE=Wait for Urgent Care,BENEFIT=Getting Care Quickly,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Wait for Routine Visit,BENEFIT=Getting Care Quickly,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Getting to See a Specialist,BENEFIT=Getting Needed Care,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Getting Treatment,BENEFIT=Getting Needed Care,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Claims Handled in a Reasonable Time,BENEFIT=Claims Processing,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Claims Handled Correctly,BENEFIT=Claims Processing,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Listens Carefully,BENEFIT=How Well Doctors Communicate,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Explains so You Can Understand,BENEFIT=How Well Doctors Communicate,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Spends Time with You,BENEFIT=How Well Doctors Communicate,YEAR=&TIMEPD);
%OFFSET(BENTYPE=Shows Respect,BENEFIT=How Well Doctors Communicate,YEAR=&TIMEPD);

%MEND;
%CALLIT(2008);
%CALLIT(2009);
%OFFSET(BENTYPE=Composite,BENEFIT=Customer Service,YEAR=2009);
%OFFSET(BENTYPE=Getting Information,BENEFIT=Customer Service,YEAR=2009);
%OFFSET(BENTYPE=Courteous Customer Service,BENEFIT=Customer Service,YEAR=2009);
PROC SORT DATA=SIGTEST2; BY KEY; RUN;
PROC SORT DATA=SIGTEST1; BY KEY; RUN;
PROC SORT DATA=MPR; BY KEY; RUN;

*****
* Combine previously created records with the new file
*****;
DATA COMBINE OUT.LT30Q;
  SET SIGTEST1 SIGTEST2 MPR;
  BY KEY;
  *****
  * Remove N_OBS < 30 OR N_WGT < 200
  *****;
  IF (N_OBS < 30 OR N_WGT < 200) AND (MAJGRP NE "Benchmark") AND
    (REGION NE "Benchmark")
    THEN OUTPUT OUT.LT30Q;
  ELSE OUTPUT COMBINE;
RUN;

```



```

*****
* Create place holders for missing records
*****;
DATA FAKEONLY;
  MERGE COMBINE(IN=IN1) TEMPQ(IN=IN2);
  BY KEY;
  SOURCE = "FAKE ONLY";
  FLAG   = "FAKE ONLY";
  IF IN2 AND NOT IN1;
RUN;

*****
* Combine all of the missing records with the existing records to generate
* the complete WEB layout file.
*****;
DATA CONUS_Q;
  SET FAKEONLY COMBINE;
  BY KEY;

  IF BENEFIT NE "Preventive Care" THEN SCORE = SCORE*100;
RUN;

PROC SORT DATA=CONUS_Q OUT=OUT.CONUS_Q; BY ORDER; RUN;

TITLE1 "Annual 2010 DOD Health Survey Scores/Report Cards (6077-410)";
TITLE2 "Program Name: CONUS_A.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFINL.sas7bdat - Scores Database in WEB Layout";
TITLE4 "Program Outputs: CONUS_A.sas7bdat - CONUS Scores Database in WEB layout";

PROC FREQ;
TABLES SIG FLAG SOURCE BENEFIT BENTYPE MAJGRP REGION REGCAT
        REGION*REGCAT
        /MISSING LIST;
RUN;

```

G.16 LOADWEB\TREND_A.SAS - CALCULATE TRENDS FOR CAHPS SCORES - ANNUAL.

```

*****
*
* PROGRAM:  TREND_A.SAS
* TASK:    2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Add TREND records to Scores database.
*
* WRITTEN: 07/28/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 02/21/2001 BY KEITH RATHBUN -- updated calculation for
*            trend score (DScore).
*            2) 01/07/2002 BY KEITH RATHBUN -- updated for 2000 survey.
*            Use 1998/2000 pairs to calculate trends.
*            3) 01/27/2003 BY KEITH RATHBUN -- updated for 2002 survey.
*            Use 2000/2002 pairs to calculate trends.
*            4) 02/08/2004 BY CHRIS RANKIN -- updated for 2003 survey.
*            Use 2001/2003 pairs to calculate trends.
*            5) 02/2005 BY REGINA GRAMSS -- updated for 2004 survey,
*            include smoking cessation trend calculation,
*            put patch in for to order properly.
*            6) 02/2006 BY REGINA GRAMSS -- update for 2005. Use
*            second set of scores using "old" weights to calculate
*            trend.
*            7) 11/14/2007 BY KEITH RATHBUN -- updated for 2007 survey.
*
* INPUTS:  1) CONUS_Q.SD2 - MPR and CAHPS Scores Database in WEB layout
*            2) FAKE.SD2 - Scores Database WEB Layout
*
* OUTPUT:  1) TREND_A.SD2 - Combined Scores Database in WEB layout
*
* NOTES:
*
* 1) All of the scores DB programs must be run and MERGFINL.SAS prior to
*    running this program. All report card records must be merged prior
*    to the trend calculations (MERGFINL.SAS,CONUS_Q.SAS,TOTAL_A.SAS).
*
* 2) The output file (TREND_A.SD2) will be run through the
*    MAKEHTML.SAS program to generate the HTML consumer reports.
*
*****
* Assign data libraries and options
*****;

LIBNAME IN  ".";
LIBNAME OUT ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER ERRORS=10000;
/*RSG 02/2005 code copied from 2003 TOTAL_Ar.SAS - eliminate all records
with semean>.05 or missing and delete all records for that region/regcat
this will reduce the number of missing data*/

/* MER 11/17/08 semean threshold was changed to .07 */

data fakecut(keep=region regcat);
set in.conus_q;
where majgrp='Prime Enrollees' & region ne regcat
  & benefit='Health Plan' & timepd='2010'; *MER 09/10/2010 changed timepd to 2010;
if semean>.07|semean=.;

proc sort; by region regcat;
data fake;
set in.fake;
oorder=_n_;
proc sort data=fake; by region regcat;
data newfake;
merge fakecut(in=fin) fake; by region regcat;
if fin then delete;
proc sort data=newfake out=out.newfake; by oorder;
run;

*****
* Extract records to calculate TRENDS. Keep only 2001/2003 pairs for CAHPS

```

```

* records. Trends have already been calculated for MPR scores.
*****;

DATA TRENDS;
  SET IN.CONUS_Q (drop=key);          * MER 09/10/2010, changed 2007, 2009 ;
  WHERE TIMEPD IN ('2008','2010'); * to 2008,2010;
  *****
  * Trends already calculated for MPR scores, so remove from file
  * (RSG 02/2005) EXCEPT Healthy Behavior scores whose trend need to be calculated
  *****;

  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));

  *MER 09/10/2010, changed to svmpr08/09/10;
  IF (SVMPR08 = 1 or SVMPR09 = 1 or SVMPR10 = 1)
    AND BENEFIT NE 'Healthy Behaviors' THEN DELETE;

RUN;

DATA TEMP08;
  SET TRENDS;
  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE ;
  IF TIMEPD = "2008";
RUN;
PROC SORT DATA=TEMP08; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;

DATA TEMP10;
  SET TRENDS;
  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF TIMEPD = "2010";
RUN;
PROC SORT DATA=TEMP10; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;

DATA PAIR0810(keep=majgrp region regcat benefit bentype);
  MERGE TEMP08(IN=IN08) TEMP10(IN=IN10);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF IN08 AND IN10;
RUN;

PROC SORT DATA=TRENDS;
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
RUN;

DATA TRENDS2;
  MERGE TRENDS(IN=INTREND) PAIR0810(IN=INPAIR);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF INTREND AND INPAIR;
RUN;

PROC SORT DATA=TRENDS;
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD;
RUN;
  proc print data=trends(obs=100);
  *****
  * Calculate TRENDS keeping only the TREND records
  *****;

DATA TRENDS bench;
  SET TRENDS(drop=bscore bsemean);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD;
  IF TIMEPD = '2008' THEN DO;
    SCORE08 = SCORE/100;
    SE08     = SEMEAN;
    N08      = N_OBS;
    W08      = N_WGT;
  END;
  RETAIN SCORE08 SE08 N08 W08;
  IF TIMEPD = '2010' THEN DO;
    SCORE10 = SCORE/100;
    SE10     = SEMEAN;
    N10      = N_OBS;
    W10      = N_WGT;
  END;

```

```

END;
RETAIN SCORE10 SE10 N10 W10;
LENGTH KEY $200.;
IF TIMEPD = '2010' THEN DO;
  TIMEPD = "Trend";
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
  SOURCE = "TREND";
  SEMEAN = SQRT(SE08**2+SE10**2);
  N_OBS = MIN(N08,N10);
  N_WGT = MIN(W08,W10);
  SCORE = SCORE10-SCORE08;
  DSCORE = 100*(SCORE10-SCORE08);
  if region='Benchmark' then OUTPUT bench;
  else output trends;
END;
DROP ORDER SCORE08 SCORE10 SE08 SE10 N08 N10;
RUN;

PROC SORT DATA=trends;
  BY MAJGRP BENEFIT BENTYPE TIMEPD;
RUN;
proc sort data=bench out=benchs(keep=majgrp benefit bentype timepd score semean);
by majgrp benefit bentype timepd;
run;

*****
* Perform significance tests for CAHPS scores
*****;
DATA trends;
  MERGE trends(IN=SIN) BENCHS(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  if bsemean=. then bsemean=0;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1));
  SIG = 0;
  IF N_OBS >= 30 AND TEST < 0.05 THEN SIG = 1;
  IF SCORE < BSCORE THEN SIG = -SIG;
  IF SIN;
RUN;

data trends;
set trends bench;
score=dscore;
PROC SORT DATA=TRENDS; BY KEY; RUN;

*****
* Construct ORDERing variable from WEB layout
* (RSG 02/2005 add fix to order it properly
*****;
DATA ORDER;
  SET IN.newFAKE;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
  KEEP KEY ORDER;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;

DATA MERGTRND;
  MERGE TRENDS(IN=IN1) ORDER(IN=IN2);
  BY KEY;
  IF IN1 and in2;
RUN;

PROC SORT DATA=IN.CONUS_Q OUT=CONUS_Q;
by key;run;
data conus_q;
  merge conus_q order(in=gin); by key;

```

```

        if gin;
proc sort data=CONUS_Q; by order;
PROC SORT DATA=MERGTRND; BY ORDER; RUN;

DATA OUT.TREND_A;
  update MERGTRND CONUS_Q;
  BY ORDER;

  IF BENEFIT = "Primary Care Manager" THEN BENEFIT = "Personal Doctor"; /*MJS 02/13/2003*/

  IF REGCAT = "5th Med Grp-Minot" THEN REGION = "West Air Force";
  IF substr(region,1,5) in ('Latin','Europ','Pacif') then delete;

RUN;

TITLE1 "2010 DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: TREND_A.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS data records in WEB Layout";
TITLE4 "Program Outputs: TREND_A.sas7bdat - Merged Final Scores Database with TRENDS for input
to SIGNIF_A.SAS";

TITLE5 "FREQs of TREND_A.sas7bdat";
PROC FREQ;
  TABLES SOURCE FLAG MAJGRP REGION BENEFIT BENTYPE
  /MISSING LIST;
RUN;

TITLE5 "FREQs of newFAKE.sas7bdat";
PROC FREQ DATA=IN.newFAKE;
  TABLES MAJGRP REGION BENEFIT BENTYPE
  /MISSING LIST;
RUN;

```



```

* 02-14-2003 - Mike Scott ;
* Added code to avoid scores > 100 ;
* 04-30-2003 - Mike Scott ;
* Changed Preventive Care columns from 5 to 6 to ;
* accommodate Cholesterol Testing. ;
* 05-01-2003 - Mike Scott ;
* Updated periods for Q1 2003, and changed "2001 and ;
* 2002" to "2002 and 2003" and "2002 Health Care ;
* Survey" to "2003 Health Care Survey". ;
* 05-04-2003 - Mike Scott ;
* Removed Civilian PCM (var1=3 or majgrp=3), and ;
* changed 4-8 references to 3-7. ;
* 05-06-2003 - Mike Scott ;
* Changed 7-0-0 to 8-0-0. ;
* 05-13-2003 - Mike Scott ;
* Changed two widths. ;
* 05-14-2003 - Mike Scott ;
* Changed columns from 2-12 to 1-11 which is ;
* controlled by var3 - decreased var3's by 1 and ;
* decreased K loops by 1. ;
* 07-03-2003 - Mike Scott ;
* Incorporated TIMEPD variable into program to run ;
* with Q1 2003 TOTAL_Q rerun to include TIMEPD ;
* variable. ;
* 07-30-2003 - Mike Scott ;
* Added else do section to correct header. ;
* 07-31-2003 - Mike Scott ;
* Updated periods for Q2 2003. ;
* 08-01-2003 - Mike Scott ;
* Added code so periods would print on var3=7,8,9,10. ;
* 08-07-2003 - Regina Gramss ;
* Changed program to create additional trend pages ;
* for each sub-benefit: pages are now named with 4 ;
* numbers (var4 has been added to all file name ;
* references) to compensate for additional layer ;
* of pages. All file references have been changed ;
* to include var4. ;
* 01-28-2004 - Mike Scott ;
* Changed back to html being generated in HTML ;
* directory below directory where MAKEHTMQ is being ;
* run. ;
* 01-29-2004 - Mike Scott ;
* Commented out LENGTH HREF $ 250 statements, since ;
* HREF was already declared. ;
* 02-11-2004 - Mike Scott ;
* Changed all lengths to 100 that were less than 100. ;
* 03-24-2004 - Mike Scott ;
* Updated for Q1 2004. Changed hard-coded years in ;
* footnotes stating source to macro variables. ;
* 05-07-2004 - Mike Scott - Changed "Wait More than 15 Minutes Past ;
* Appointment" to "Wait in Doctor's Office" and ;
* "Problems Getting Referral to Specialist" to "Problems ;
* Getting to See Specialist". NAed out trends for the ;
* composites Getting Needed Care, Getting Care Quickly, ;
* and Customer Service and for the questions Problems ;
* Getting Personal Doctor/Nurse (GNC), Wait in Doctor's ;
* Office (GCQ), and Problem with Paperwork (CS). ;
* 02-16-2004 - Mike Scott - Moved initial data read-in outside macro ;
* loop to speed up program. ;
* 06-22-2004 - Regina Gramss - Updated for Q2 2004 run. ;
* 08-02-2004 - Regina Gramss - removed lines that replaced trend ;
* with NA ;
* 10-07-2004 - Regina Gramss - Adjusted for XTNEXREG ;
* 02-14-2005 - Mark Brinkley - added 12th benefit SMOKING ;
* 03-28-2005 - Mark Brinkley - made changed to fix excel pages ;
* 11-19-2007 - Keith Rathbun - Added 's' to Behavior. Updated ;
* parameters for 2007 survey. ;
* 11-05-2008 - Mike Rudacille - Updated parameters for 2008 survey. ;
* ;
* NOTE: Update only SRCYR1, SRCYR2, PERIOD1/2/3, and CURRENTPERIOD. ;
*=====;

```

OPTIONS COMPRESS=YES;

```

%LET SRCYR1 = 2008;    *** Previous year; /* MER - 11/21/08 Changed from previous year
                        to 2 years previous for accuracy of footnote*/
%LET SRCYR2 = 2010;    *** Current year;

%LET CURRENTPERIOD = 2010;
%LET QTRS=3;          /** Qtr of these reports    **/

OPTIONS NOXWAIT;

%LET HTMLSP=%NRSTR(&nbsp;);
%LET QUOTE=%STR("");
%LET OUTDIR=HTML;    /** Directory to put HTML files **/ /*MJS 01/28/04 Set to
HTML*/
%LET IMGDIR=images;    /** Directory with images **/
%LET TARGET=target='_parent';    /** HTML code for frames targeting **/
%LET OUTXLS=1;    /** 1=Make XLS file/0=Don't Added 1-24 MAB **/
%LET fontface=%STR(Arial,Helvetica,Swiss,Geneva);
%LET hcolor=%STR('white');
%LET BLUE=%STR('#663300');    /** This is really dark red **/
%LET GREEN=%STR('#009933');
%LET RED=%STR('#cc0000');
%LET GRAY=%STR('white');
%LET LOGO=%STR('images\tricare_side_35_new.gif');
%LET HELP_BUT=%STR('images\help75.gif');
%LET HOME_BUT=%STR('images\home75.gif');
%LET BACK_BUT=%STR('images\back75.gif');
%LET NUMBER_HTML_FILES=0;    /** Keep count of HTML files created **/

%LET SUB_HEAD=0;    /** Macro variable for sub-benefit heading **/
                        /** 1=headings, 0=no headings    **/

/*****
/***** Macro for putting notes at bottom of table *****/
/*****
%MACRO BOTTOM_NOTES();
    PUT "<tr>";
    %if &var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2 %then %do;
        PUT "    <td colspan='&columns.'><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Source:
Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 through &SRCYR2.</font>"; /* MER
11/21/08
    %end;
    %else %do;
        PUT "    <td colspan='&columns.'><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Source:
&SRCYR2 Health Care Survey of DOD Beneficiaries</font>";
    %end;
        PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2' color='#009933'><br>";
        PUT "    <b>Indicates score significantly exceeds benchmark</b></font><b>&htmlsp.<br>";
        PUT "    </b><font face='Arial,Helvetica,Swiss,Geneva' size='2'
color='#cc0000'><i>Indicates score significantly falls short of benchmark</i></font><br>";
        PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>NA Indicates not
applicable</font><br>";
        %if &var3. = 4 and &seppage. = 2 %then %do;
            PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>* Indicates scores not
available for that year</font><br>";
        %end;
            PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
        %if &var3. = 0 %then %do;
            PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'># Indicates <a
href='../html\help.htm#transition' &target.>change</a> to composite</font><br>";
        %end;
        %else %if &var3. = 1 or &var3. = 3 or (&var3. = 11 and &seppage. = 1) %then %do;
            PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'># Indicates <a
href='../html\help.htm#transition' &target.>change</a> to questions</font><br>";
        %end;
            PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
            PUT "</td></tr>";
%MEMD BOTTOM_NOTES;

```



```

/*****
/**** Macro for adding in link row to trends data ****
/****
/**** Macro variable with Javascript to go back ****/
%LET          GOBACK=%STR(<script>document.write("&quote.<a          href='javascript:history.go(-1)'
target='_parent'>&quote.);
document.write("&quote.<img      src='images\\back75.gif'      border='0'      alt='Go      to      previous
page'>&quote.);document.write("&quote.</a>&quote.);</script>);

LIBNAME SRC1 '.' ACCESS=READONLY;
*LIBNAME SRC1 V612 'L:\2005\PROGRAMS\LOADWEB';

OPTIONS LS=210;

/****
/**** Macro to create html pages ****/
/****          var1=major group          ****/
/****          var2=region          ****/
/****          var3=benefit          ****/
/****          var4=trend          ****/
/****          seppage=0/no separate pages for qtrly trends          ****/
/****          1/1st separate page with LINK to trends          ****/
/****          2/2nd separate page with trends          ****/
/****
/****
** RSG 08/07/03 - added var4 to add extra dimension of page numbers for
sub benefit trend pages**/

DATA PRE_SUBSET (RENAME=(TIME=TIMEPD));
  SET SRC1.TREND_Apc(DROP=FLAG SOURCE KEY);          /** MAB testing 3/16/2005 **/

/* 02/2006 RSG - need to reset timepd to longer length to include
values with asterix*/

LENGTH TIME $6.;
TIME=TIMEPD;
IF BENEFIT="Total" THEN DELETE;          /** MAB testing 2/11/2005 **/

/* MER 11/05/09 Temporary fix for 2009 and 2010 */
IF (BENEFIT="Customer Service" AND TIMEPD="Trend") THEN SCORE=.;

IF MAJGRP = "All Beneficiaries" THEN MAJGRP = "All Users";
IF MAJGRP = "Non-enrolled Beneficiaries" THEN MAJGRP = "Standard/Extra Users";

IF SCORE>100 then SCORE=100;
IF (TIMEPD="Trend" and -.5<SCORE<0) THEN SCORE=ABS(SCORE);

IF BENTYPE="Wait More than 15 Minutes Past Appointment" THEN          /*MJS 5/7/04 Changed label*/
  BENTYPE="Wait in Doctor`s Office";
IF BENTYPE="Problems Getting Referral to Specialist" THEN          /*MJS 5/7/04 Changed label*/
  BENTYPE="Problems Getting to See Specialist";

DROP TIMEPD;

IF MAJGRP = "Benchmark" THEN LINEUP=1;
ELSE IF MAJGRP = "Prime Enrollees" THEN LINEUP=2;
ELSE IF MAJGRP = "Enrollees with Military PCM" THEN LINEUP=3;
  ELSE IF MAJGRP = "Enrollees with Civilian PCM" THEN LINEUP=4;
ELSE IF MAJGRP = "Standard/Extra Users" THEN LINEUP=5;
  ELSE IF MAJGRP = "Purchased Care Users" THEN LINEUP=6;
ELSE IF MAJGRP = "Active Duty" THEN LINEUP=7;
ELSE IF MAJGRP = "Active Duty Dependents" THEN LINEUP=8;
ELSE IF MAJGRP = "Retirees and Dependents" THEN LINEUP=9;
ELSE IF MAJGRP = "All Users" THEN LINEUP=10;

IF REGION = "Benchmark" THEN LINEUP2=1;
ELSE IF UPCASE(REGION) = 'USA MHS' THEN DO;
  LINEUP2=2;

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        REGION='US MHS';
        REGCAT='US MHS';
    END;
    ELSE IF UPCASE(REGION) = 'ARMY' THEN LINEUP2=3;
    ELSE IF UPCASE(REGION) = 'NAVY' THEN LINEUP2=4;
    ELSE IF UPCASE(REGION) = 'AIR FORCE' THEN LINEUP2=5;
    ELSE IF UPCASE(REGION) = 'OTHER' THEN LINEUP2=6;
    ELSE IF UPCASE(REGION) = 'NORTH' THEN LINEUP2=7;
    ELSE IF UPCASE(REGION) = 'NORTH ARMY' THEN LINEUP2=8;
    ELSE IF UPCASE(REGION) = 'NORTH NAVY' THEN LINEUP2=9;
    ELSE IF UPCASE(REGION) = 'NORTH AIR FORCE' THEN LINEUP2=10;
    ELSE IF UPCASE(REGION) = 'NORTH OTHER' THEN LINEUP2=11;
    ELSE IF UPCASE(REGION) = 'SOUTH' THEN LINEUP2=12;
    ELSE IF UPCASE(REGION) = 'SOUTH ARMY' THEN LINEUP2=13;
    ELSE IF UPCASE(REGION) = 'SOUTH NAVY' THEN LINEUP2=14;
    ELSE IF UPCASE(REGION) = 'SOUTH AIR FORCE' THEN LINEUP2=15;
    ELSE IF UPCASE(REGION) = 'SOUTH OTHER' THEN LINEUP2=16;
    ELSE IF UPCASE(REGION) = 'WEST' THEN LINEUP2=17;
    ELSE IF UPCASE(REGION) = 'WEST ARMY' THEN LINEUP2=18;
    ELSE IF UPCASE(REGION) = 'WEST NAVY' THEN LINEUP2=19;
    ELSE IF UPCASE(REGION) = 'WEST AIR FORCE' THEN LINEUP2=20;
    ELSE IF UPCASE(REGION) = 'WEST OTHER' THEN LINEUP2=21;
    ELSE IF UPCASE(REGION) = 'OVERSEAS' THEN LINEUP2=22;
    ELSE IF UPCASE(REGION) = 'OVERSEAS EUROPE' THEN LINEUP2=23;
    ELSE IF UPCASE(REGION) = 'OVERSEAS PACIFIC' THEN LINEUP2=24;
    ELSE IF UPCASE(REGION) = 'OVERSEAS LATIN AMERICA' THEN LINEUP2=25;

RUN;    ***MJS 07/03/03 Changed BENTYPE to TIMEPD;

PROC SORT;
BY LINEUP LINEUP2;
RUN;

%MACRO MKHTML(var1,var2,var3,seppage,var4);

/**** Determine some macro variables ****/
%if &prefix=f %then %do;
    %let width1=640;
    %let width2=640;
    %let border=0;
%end;
%else %do;
    %let width1=90%;
    %let width2=85%;
    %let border=1;
%end;

%let number_html_files=%EVAL(1+&number_html_files.);

/** Load in data **/
DATA SUBSET;
SET PRE_SUBSET;
LENGTH FILEOUT1 $ 100;    /*MJS 02/11/04*/
LENGTH FILEOUT2 $ 100;
LENGTH FILEOUT3 $ 100;

/**** VAR1 indicated major group ****/
%if &var1.=0 %then %let major=%STR();
%if &var1.=1 %then %let major=%STR(Prime Enrollees);
%if &var1.=2 %then %let major=%STR(Enrollees with Military PCM);
%if &var1.=3 %then %let major=%STR(Enrollees with Civilian PCM);
%if &var1.=4 %then %let major=%STR(Standard/Extra Users);
%if &var1.=5 %then %let major=%STR(Purchased Care Users);
%if &var1.=6 %then %let major=%STR(Active Duty);
%if &var1.=7 %then %let major=%STR(Active Duty Dependents);
%if &var1.=8 %then %let major=%STR(Retirees and Dependents);
%if &var1.=9 %then %let major=%STR(All Users);

```

```

%if &var4. = 0 %then %do;
    %LET BEN_TYPE=%STR('Composite');
%end;
%else %do;
    %if &var3. = 1 %then %do;
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Getting to See a Specialist');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Getting Treatment');
        %end;
    %end;
    %else %if &var3. = 2 %then %do;
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Wait for Routine Visit');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Wait for Urgent Care');
        %end;
    %end;
    %else %if &var3. = 3 %then %do;
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Listens Carefully');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Explains so You Can Understand');
        %end;
    %else %if &var4. = 3 %then %do;
        %LET BEN_TYPE = %STR('Shows Respect');
    %end;
    %else %if &var4. = 4 %then %do;
        %LET BEN_TYPE = %STR('Spends Time with You');
    %end;
    %end;
    %else %if &var3. = 4 %then %do;
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Getting Information');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Courteous Customer Service');
        %end;
    %end;
    %else %if &var3. = 5 %then %do;
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Claims Handled in a Reasonable Time');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Claims Handled Correctly');
        %end;
    %end;
    %end;
    %else %if &var3. = 10 %then %do;
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Mammography');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Pap Smear');
        %end;
        %else %if &var4. = 3 %then %do;
            %LET BEN_TYPE = %STR('Hypertension');
        %end;
        %else %if &var4. = 4 %then %do;
            %LET BEN_TYPE = %STR('Prenatal Care');
        %end;
    %end;
    %end;
    %else %if &var3. = 11 %then %do;    /** MAB Added 2/11/2005 **/
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Non-Smoking Rate');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Counselled To Quit');
        %end;
        %else %if &var4. = 3 %then %do;
            %LET BEN_TYPE = %STR('Percent Not Obese');
        %end;
    %end;

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```

    %end;
%end;

    IF MAJGRP = "&major.";      /** MAB MODIFIED 3/16/2005 ***/
    %let comma=%STR(,);
    %let grpmsg=%STR(Click below to view this table by other groups);

/** Create macro variables to refer to Component or Trend pages ***/
%if &seppage.=2 %then %do;
    %let q=q;
    %let unq=;
    %let click_alt=Click for Component data;
    %let click_image=component.gif;
%end;
%else %do;
    %let q=;
    %let unq=q;
    %let click_alt=Click for Trend data;
    %let click_image=trend.gif;
%end;

FILEOUT1=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q..htm");      /** Main html
**/
FILEOUT2=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.a.htm");      /** Header html
**/
FILEOUT3=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.b.htm");      /** Data html
**/
%if &outxls.=1 %then %do;
    %let fileout1= NUL;
    %let fileout2= NUL;
    %let fileout3= NUL;
%end;
%else %do;
    call symput('fileout1',FILEOUT1);
    call symput('fileout2',FILEOUT2);
    call symput('fileout3',FILEOUT3);
%end;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/

FILEOUTX=COMPRESS("&outdir.\p&var1.-&var2.-&var3.-&var4.&q..xls");      /* create run-
specific xls file */
CALL SYMPUT('fileoutX',FILEOUTX);      /* via global macro vars
*/
%if &seppage. ne 2 %then %do;
    %if &var3 = 0 or &var3 = 1 or &var3 = 3 or &var3 = 11 %then %do;
        TEMPLATE=COMPRESS("Templates\Template&var3._trans.xls");
    %end;
    %else %do;
        TEMPLATE=COMPRESS("Templates\Template&var3..xls");
    %end;
%end;
%else %if &var3 = 4 %then %do;
    TEMPLATE=COMPRESS("Templates\Template_trend2.xls");
%end;
%else %if &var3 = 1 or &var3 = 3 %then %do;
    TEMPLATE=COMPRESS("Templates\Template_trend_trans.xls");
%end;
%else %do;
    TEMPLATE=COMPRESS("Templates\Template_trend.xls");
%end;
CALL SYMPUT('template',TEMPLATE);      /* identify which template
xls file */
/*-----*/
/* 2000/11: end xls code */
/*-----*/

```

```

/** VAR3 dictates type of benefit heading */
%if &var3=0 %then %do;
  %let headvar=BENEFIT;
%end;
%else %do;
  %if &seppage.=2 or &var3=6 or &var3=7 or &var3=8 or &var3=9 %then %let headvar=TIMEPD;
  %else %let headvar=BENTYPE;
%end;

/** Link to XLS file */
HREFXLS=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q.xls");
call symput('hrefxls',HREFXLS);
RUN;

/** Subset data by region */
DATA SUBSET2;
SET SUBSET;

%if &var2.=0 %then %do;  /** 0 = All regions */
  IF REGION=REGCAT;  /** Just do All Region table */
  %let sub_regs=%STR(All Regions);
%end;

%else %if &var2.=1 %then %do;
  IF UPCASE(REGION)="US MHS" ;
  %let sub_regs=%STR(US MHS);
%end;
%else %if &var2.=2 %then %do;
  IF UPCASE(REGION)="ARMY";
  %let sub_regs=%STR(ARMY);
%end;
%else %if &var2.=3 %then %do;
  IF UPCASE(REGION)="NAVY" ;
  %let sub_regs=%STR(NAVY);
%end;
%else %if &var2.=4 %then %do;
  IF UPCASE(REGION)="AIR FORCE";
  %let sub_regs=%STR(AIR FORCE);
%end;

%else %if &var2.=5 %then %do;
  IF UPCASE(REGION)="OTHER";
  %let sub_regs=%STR(OTHER);
%end;
%else %if &var2.=6 %then %do;
  IF UPCASE(REGION)="NORTH";
  %let sub_regs=%STR(NORTH);
%end;
%else %if &var2.=7 %then %do;
  IF UPCASE(REGION)="NORTH ARMY" or REGION="Benchmark" or REGION = "US MHS"
  OR REGION="NORTH" OR REGION="ARMY";
  %let sub_regs=%STR(North Army);
%end;
%else %if &var2.=8 %then %do;
  IF UPCASE(REGION)="NORTH NAVY" or REGION="Benchmark" or REGION = "US MHS"
  OR REGION="NORTH" OR REGION="NAVY";
  %let sub_regs=%STR(North Navy);
%end;

%else %if &var2.=9 %then %do;
  IF UPCASE(REGION)="NORTH AIR FORCE" or REGION="Benchmark" or REGION = "US MHS"
  OR REGION="NORTH" OR REGION="AIR FORCE";
  %let sub_regs=%STR(North Air Force);
%end;
%else %if &var2.=10 %then %do;
  IF UPCASE(REGION)="NORTH OTHER" or REGION="Benchmark" or REGION = "US MHS"
  OR REGION="NORTH" OR REGION="OTHER";
  %let sub_regs=%STR(North Other);
%end;
%else %if &var2.=11 %then %do;
  IF UPCASE(REGION)="SOUTH";
  %let sub_regs=%STR(SOUTH);

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```

%end;
%else %if &var2.=12 %then %do;
    IF UPCASE(REGION)="SOUTH ARMY" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="SOUTH" OR REGION="ARMY";
    %let sub_regs=%STR(South Army);
%end;

%else %if &var2.=13 %then %do;
    IF UPCASE(REGION)="SOUTH NAVY" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="SOUTH" OR REGION="NAVY";
    %let sub_regs=%STR(South Navy);
%end;

%else %if &var2.=14 %then %do;
    IF UPCASE(REGION)="SOUTH AIR FORCE" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="SOUTH" OR REGION="AIR FORCE";
    %let sub_regs=%STR(South Air Force);
%end;

%else %if &var2.=15 %then %do;
    IF UPCASE(REGION)="SOUTH OTHER" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="SOUTH" OR REGION="OTHER";
    %let sub_regs=%STR(South Other);
%end;

%else %if &var2.=16 %then %do;
    IF UPCASE(REGION)="WEST";
    %let sub_regs=%STR(OVERSEAS);
%end;

%else %if &var2.=17 %then %do;
    IF UPCASE(REGION) = "WEST ARMY" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="WEST" OR REGION="ARMY";
    %let sub_regs=%STR(West Army);
%end;

%else %if &var2.=18 %then %do;
    IF UPCASE(REGION) = "WEST NAVY" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="WEST" OR REGION="NAVY";
    %let sub_regs=%STR(West Navy);
%end;

%else %if &var2.=19 %then %do;
    IF UPCASE(REGION) = "WEST AIR FORCE" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="WEST" OR REGION="AIR FORCE";
    %let sub_regs=%STR(West Air Force);
%end;

%else %if &var2.=20 %then %do;
    IF UPCASE(REGION) = "WEST OTHER" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="WEST" OR REGION="OTHER";
    %let sub_regs=%STR(West Other);
%end;

%else %if &var2.=21 %then %do;
    IF UPCASE(REGION) = "OVERSEAS" ;
    %let sub_regs=%STR(OVERSEAS);
%end;

%else %if &var2.=22 %then %do;
    IF UPCASE(REGION) = "OVERSEAS EUROPE" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="OVERSEAS" OR REGION="EUROPE";
    %let sub_regs=%STR(Overseas Europe);
%end;

%else %if &var2.=23 %then %do;
    IF UPCASE(REGION) = "OVERSEAS PACIFIC" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="OVERSEAS" OR REGION="PACIFIC";
    %let sub_regs=%STR(Overseas Pacific);
%end;

%else %if &var2.=24 %then %do;
    IF UPCASE(REGION) = "OVERSEAS LATIN AMERICA" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="OVERSEAS" OR REGION="LATIN AMERICA";
    %let sub_regs=%STR(Overseas Latin America);
%end;
RUN;

/** Subset data by Benefit */
DATA SUBSET3;
    SET SUBSET2;

    %if &var3.=0 %then %do;    /** 0=All Benefits */

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```

    IF BENTYPE="Composite" and TIMEPD="&currentperiod.";
%end;
%else %if &var3.=1 %then %do;
    IF BENEFIT="Getting Needed Care";

    /** # of columns for this benefit table ***/
    %let columns=%EVAL(3+&qtrs.);
%end;
%else %if &var3.=2 %then %do;
    IF BENEFIT="Getting Care Quickly";
    %let columns=%EVAL(3+&qtrs.);
%end;
%else %if &var3.=3 %then %do;
    IF BENEFIT="How Well Doctors Communicate";
    %let columns=%EVAL(5+&qtrs.);
%end;
%else %if &var3.=4 %then %do;
    IF BENEFIT="Customer Service";
    %let columns=%EVAL(3+&qtrs.);
%end;
%else %if &var3.=5 %then %do;
    IF BENEFIT="Claims Processing";
    %let columns=%EVAL(3+&qtrs.);
%end;
%else %if &var3.=6 %then %do;
    IF BENEFIT="Health Plan";
    %let columns=%EVAL(2+&qtrs.);
%end;
%else %if &var3.=7 %then %do;
    IF BENEFIT="Health Care";
    %let columns=%EVAL(2+&qtrs.);
%end;
%else %if &var3.=8 %then %do;
    IF BENEFIT="Personal Doctor";
    %let columns=%EVAL(2+&qtrs.);
%end;
%else %if &var3.=9 %then %do;
    IF BENEFIT="Specialty Care";
    %let columns=%EVAL(2+&qtrs.);
%end;
%else %if &var3.=10 %then %do;
    IF BENEFIT="Preventive Care";
    %let columns=%EVAL(5+&qtrs.);
%end;
%else %if &var3.=11 %then %do;
    IF BENEFIT="Healthy Behaviors";
    %let columns=%EVAL(4+&qtrs.);
%end;

/** Set macro variable ***/
%if &var3.=0 %then %do;
    %let sub_ben=%STR(&currentperiod. Composite Scores);
    %let columns=12;
%end;
%else %do;
    call symput('sub_ben',BENEFIT);
%end;

/** Determine number of columns for sub-benefits ***/
/** Equals cols - (x for qtrs - 1 for stub column) ***/
%let subcols=%EVAL(&columns.-&qtrs.-2);

/** Determine number of columns less 1st (stub) column ***/
%let columns_less1=%EVAL(&columns.-1);

RUN;

DATA SUBSET4;
SET SUBSET3;

WIDTH_COL1=120; /** Set width of column 1 **/

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IF BENTYPE="Composite" THEN WIDTH3=90;
ELSE WIDTH3=90;

/** Deal with some special cases **/
IF BENEFIT="Preventive Care" THEN DO;
  IF BENTYPE="Composite" THEN WIDTH3=.;
  ELSE WIDTH3=80;
END;

%if &prefix.=p %then %do;
  WIDTH3=.;
%end;
%else %if &var3.=0 %then %do;
/* WIDTH_COL1=.;
  WIDTH3=40;*/
/* MER 05/02/09 new values for V4 frames */
  WIDTH_COL1=80;
  /* MER 05/02/09 */
  %if &var2.=0 %then %do;
    WIDTH3=44;
  %end;
  %else %do;
    WIDTH3=43;
  %end;
%end;

RUN;

OPTIONS LS=152;
PROC PRINT;
  VAR BENEFIT BENTYPE TIMEPD REGION REGCAT MAJGRP;
RUN CANCEL;
PROC PRINT;
  VAR BENEFIT BENTYPE REGION REGCAT MAJGRP;
RUN CANCEL;

/***** Put out Header rows of table *****/
DATA HTML;
  SET SUBSET4;
  LENGTH HREFBACK $100;

  IF REGION IN("Benchmark");

  /** Determine where back button should link to **/
  %if &var1.=0 %then %do;
    HREFBACK=COMPRESS("&prefix.9-0-0-0.htm");
  %end;
  %else %do;
    HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
  %end;

  /** Create macro variable date with today's date **/
  DATETIME=DATETIME();
  CALL SYMPUT ('DATETIME',left(put(datetime,datetime20.)));
  DROP DATETIME;

RUN;

/** ÔÔ FRAMES SECTION ÔÔ **/
%if &prefix=f %then %do;

  /** Make frameset page split frames smaller on all ratings pages **/

  %if &var3.=0 %then %do;
    %let splitpixel=228;
  %end;
  %else %if &var3.=1 OR &var3.=2 %then %do;

```



```

        %let splitpixel=211;
    %end;
    %else %if &var3.=5 OR &var3.=11 %then %do;
        %let splitpixel=181;
    %end;
    %else %if &var3.=3 %then %do;
        %let splitpixel=196;
    %end;
    %else %if &var3.=4 %then %do;
        %let splitpixel=221;
    %end;
    %else %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
        %let splitpixel=158;
    %end;
    %else %if &var3.=10 %then %do;
        %let splitpixel=192;
    %end;

    %if &SEPPAGE.=2 %then %do;
        %let splitpixel=157;
    %end;

    /** Create frameset page HTML page ***/
    DATA _NULL_;
    FILE "&FILEOUT1.";
    PUT "<html>";
    PUT "<frameset rows='&splitpixel.,*'>";
    %if &seppage.=2 %then %do;
        PUT "          <frame src='f&var1.-&var2.-&var3.-&var4.qa.htm'          MARGINHEIGHT='0'
MARGINWIDTH='0'>";
        PUT "          <frame src='f&var1.-&var2.-&var3.-&var4.qb.htm'          MARGINHEIGHT='0'
MARGINWIDTH='0'>";
    %end;
    %else %do;
        PUT "          <frame src='f&var1.-&var2.-&var3.-&var4.a.htm'          MARGINHEIGHT='0'
MARGINWIDTH='0'>";
        PUT "          <frame src='f&var1.-&var2.-&var3.-&var4.b.htm'          MARGINHEIGHT='0'
MARGINWIDTH='0'>";
    %end;

    PUT "</frameset></html>";
    RUN;

    /** Since done making frameset page then assign fileout1 = frame 1 ***/
    %let fileout1=&fileout2.;
    %if &seppage.=1 %then %do;
        %let fileout1=&fileout2.;
    %end;
    %else %if &seppage.=2 %then %do;
        %let fileout1=&fileout2.;
    %end;

%end;

    /** Initialize HTML page ***/
    DATA _NULL_;
    FILE "&FILEOUT1.";

    PUT "<! Created &datetime.>";
    PUT "<html><head><title>";
    PUT "&major. &comma. &sub_ben., &sub_regs.";
    PUT "</title></head>";
    PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066' vlink='#996699'>";

    /** link to printer friendly version moved, 10/25/2001 C.Rankin ***/

    RUN;

    /*-----*/

```



```

        PUT " <td width=80 colspan=2><IMG SRC='&imgdir.\eoa.gif'ALT='Ease of Access'
BORDER=0></td>";
        PUT " <td width=185 colspan=3><IMG SRC='&imgdir.\com_cus_ser.gif'
ALT='Communication and Customer Service' BORDER=0></td>";
        PUT " <td width=160 colspan=4><IMG SRC='&imgdir.\ratings0.gif' ALT='Ratings'
BORDER=0></td>";
        PUT " <td width=50 colspan=1><IMG SRC='&imgdir.\prevention.gif' ALT='Prevention'
BORDER=0></td>";
        PUT " <td width=80 colspan=1><IMG SRC='&imgdir.\healthy.gif' ALT='Healthy
Behaviors' BORDER=0></td>";
        PUT "</tr>";
        PUT "<tr bgcolor= &hdcolr.>";
    %end;
    %else %do;
        PUT "<tr bgcolor= &hdcolr.>";
        PUT "<td>&htmlsp.</td>";

        PUT " <td align='center' valign='bottom' colspan=2><font face='&fontface.'
size='2'><b>Ease of Access</b></font></td>";
        PUT " <td align='center' valign='bottom' colspan=3><font face='&fontface.'
size='2'><b>Communication and Customer Service</b></font></td>";
        PUT " <td align='center' valign='bottom' colspan=4><font face='&fontface.'
size='2'><b>Ratings</b></font></td>";
        PUT " <td align='center' valign='bottom' colspan=1><font face='&fontface.'
size='2'><b>Prevention</b></font></td>";
        PUT " <td align='center' valign='bottom' colspan=1><font face='&fontface.'
size='2'><b>Healthy Behaviors</b></font></td>";
        PUT "</tr>";
        PUT "<tr bgcolor= &hdcolr.>";
    %end;

    /** Print out 1st column of 4th row ***/
    /** ÛÛ FRAMES SECTION ÛÛ ***/
    %if &prefix=f %then %do;
        PUT " <td width=125>&htmlsp.</td>";
    %end;
    %else %do;
        PUT " <td width='8%'><font face='&fontface.'>&htmlsp.</font></td>";
    %end;

    bennum=1; /** index to all 11 benefits **/

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
    %if &outxls.=1 %then %do;
        FILE XLSTITLE;
        PUT "&major. &comma. &sub_regs.";
        PUT "%cmpres('&sub_ben.')";
    %end;
    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
END;

FILE "&FILEOUT1." MOD ; /** 2000/11: refer back to htm file */

/** Put Benefits across columns (Continuation of 4th row) ***/
/** ÛÛ FRAMES SECTION ÛÛ ***/
%if &prefix=f %then %do;
    IF BENNUM=1 OR BENNUM=2 OR BENNUM=3 OR BENNUM=4 OR BENNUM=11 THEN DO;
        IMAGE=COMPRESS("&imgdir.\image0_"||bennum||"_trans.gif");
    END;
    ELSE DO;
        IMAGE=COMPRESS("&imgdir.\image0_"||bennum||".gif");
    END;
    IF BENNUM=0 THEN PUT " <td align='center' valign='bottom'><IMG SRC='&imgdir.\image0_0.gif'
alt='Total' BORDER=0></td>";

```



```

        PUT "<tr>";
        PUT "                <td valign='center' align='center' colspan="" COLUMNS +(-1) ""
bgcolor='#D8D8D8'>";
        PUT "                <font face='&fontface.' color='#3333cc' size='5'><b>&major.
&comma. &sub_regs. <br>";

        /** If ratings then don't display reference period ***/
        %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
                ***MJS 4/23/03 Changed 8/9/10/11 to 7/8/9/10;
                PUT "                &sub_ben.</b></font>";
        %end;
        %else %do;
                PUT "                &sub_ben.<BR>&currentperiod.</b></font>";
        %end;

        PUT "                </td>";
        PUT "</tr>";

        /** Sub_head macro variable added C.Rankin 10/25/2001 ***/

        %if &sub_head.=1 %then %do;
                /** 3rd Row ***/
                /** ÔÔ FRAMES SECTION ÔÔ ***/
                %if &prefix=f %then %do;
                        PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>"; /** Column 1 **/
                        /** If sub-benefits then output sub-benefit columns ***/
                        %if &subcols.^=0 %then %do;
                                IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
                                PUT "<td align='center' valign='bottom' colspan=&subcols.><IMG SRC=" IMAGE "
alt=' BENEFIT "' BORDER=0></td>";
                                PUT "                <td align='center' valign='bottom' colspan=&qtrs.><IMG
SRC='&imgdir.\composite.gif' ALT='Composite' BORDER=0></td></tr>";
                                %end;
                                %else %do;
                                        PUT "                <td align='center' valign='bottom' colspan=&qtrs.><IMG
SRC='&imgdir.\border_rating.gif' ALT='Ratings' BORDER=0></td></tr>";
                                %end;
                                %end;
                                %else %do;
                                        PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>"; /** Column 1 **/
                                        /** If sub-benefits then output sub-benefit columns ***/
                                        %if &subcols.^=0 %then %do;
                                                PUT "                <td align='center' valign='bottom' colspan=&subcols.><font
face='&fontface.'><b>&sub_ben.<br>components</b></font></td>";
                                                PUT "                <td align='center' valign='bottom' colspan=&qtrs.><font
face='&fontface.'><b>Composite</b></font></td></tr>";
                                                %end;
                                                %else %do;
                                                        PUT "                <td align='center' valign='bottom' colspan=&qtrs.><font
face='&fontface.'><b>Ratings</b></font></td></tr>";
                                                        %end;
                                                        %end;
                                                        %end;
                                                        %end;

                /** 4th Row start (column 1) ***/
                /** ÔÔ FRAMES SECTION ÔÔ ***/
                %if &prefix=f %then %do;
                        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
                        PUT "                <td align='left' valign='bottom'><img src='&imgdir.\blank_35_50.gif'
border=0></td>";
                        %end;
                        %else %do;
                                PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
                                PUT "                <td width='10%'>&htmlsp.</td>";
                                %end;
                        %end;

                /*-----*/
                /* 2000/11: begin xls code */
                /*-----*/

```



```

%let columns=%EVAL(&columns.-&qtrs.);

/** Do sub-benefit page without any qtrly info */
DATA _NULL_;
  SET HTML2 END=EOF;

  FILE "&FILEOUT1." MOD ;

  COLUMNS=&columns.;
  SPAN2=ROUND(COLUMNS/2,1);
  SPAN1=COLUMNS-SPAN2;

  IF _N_=1 THEN DO;

    FILE "&FILEOUT1." MOD ;

    /** MF Changes ROW 1 */
    PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
    PUT "<tr bgcolor='white'>";
    PUT "      <td colspan='&SPAN1 +(-1) ' " " " valign='top' bgcolor='#999999'><img border='0'
height='25' width='242' src=&logo.></td>";
    PUT "      <td colspan='&SPAN2 +(-1) ' " " " align='right' valign='bottom'
bgcolor='#999999'>";
    PUT "      <div align='right'>";
    /** RSG - 09/02/03 Second set of trend pages need to refer to var4=0 pages */
    PUT "      <a href='..\html\&prefix.&var1.-&var2.-&var3.-0&ung.htm' &target.><img
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
    PUT "      <a href='..\html\index.htm' &target.><img src=&home_but. border='0'
alt='Return to Main Page'></a>&htmlsp. ";

    PUT "&goback.";
    PUT "      <noscript><a href='&HREFBACK +(-1) ' " " " &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";
    PUT "      &htmlsp. ";
    PUT "      <a href='..\html\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
    PUT "    </td>";
    PUT "</tr>";

    /** MF Changes ROW 2 */
    PUT "<tr>";
    PUT "      <td valign='center' align='center' colspan='&COLUMNS +(-1) ' " "
bgcolor='#D8D8D8'>";
    PUT "      <font face='&fontface.' color='#3333cc' size='5'><b>&major.
&comma. &sub_regs. <br>";

    PUT "      &sub_ben.<BR>&currentperiod.</b></font>";

    PUT "    </td>";
    PUT "</tr>";

    /** Sub_head macro variable added C.Rankin 10/25/2001 */

    %if &sub_head.=1 %then %do;
      /** 3rd Row */
      /** ÔÔ FRAMES SECTION ÔÔ */
      %if &prefix=f %then %do;
        PUT "<tr bgcolor= &hdcclr.><td>&htmlsp.</td>"; /** Column 1 */
        IMAGE=COMPRESS("&imgdir.\span_image&var3.gif");
        PUT "<td align='center' valign='bottom' colspan=&subcols.><IMG SRC=" IMAGE "
alt=' BENEFIT ' BORDER=0></td>";
      %end;
    %else %do;
      PUT "<tr bgcolor= &hdcclr.><td>&htmlsp.</td>"; /** Column 1 */
    %end;
  END;

```

```

                PUT      "<td      align='center'      valign='bottom'      colspan=&subcols.><font
face='&fontface.'><b>&sub_ben.<br>components</b></font></td>";
                %end;
                %end;

                /*** 4th Row start (column 1) ***/
                /*** ÔÔ FRAMES SECTION ÔÔ ***/
                %if &prefix=f %then %do;
                PUT      "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
                if columns ne 3 and columns ne 6 and columns ne 4 then do;
                PUT      "<td      align='left'      valign='bottom'><img      src='&imgdir.\blank_50_50.gif'
border=0></td>";
                end;
                else if columns = 3 or columns = 4 then do;
                PUT      "<td      align='left'      valign='bottom'><img      src='&imgdir.\blank_120_50.gif'
border=0></td>";
                end;
                else if columns = 6 then do;
                PUT      "<td      align='left'      valign='bottom'><img      src='&imgdir.\blank_145_50.gif'
border=0></td>";
                end;

                %end;
                %else %do;
                PUT      "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
                PUT      "<td width='10%'>&htmlsp.</td>";
                %end;

qnum=1; /**RSG 08/07/03 Added as counter to use to for link to the trend pages**/

                /*-----*/
                /* 2000/11: begin xls code */
                /*-----*/
                %if &outxls.=1 %then %do;
                FILE XLSTITLE;
                PUT      "&major. &comma. &sub_regs.";
                PUT      "%cmpres('&sub_ben.')";
                %end;
                /*-----*/
                /* 2000/11: begin xls code */
                /*-----*/
END;

FILE "&FILEOUT1." MOD ;                /* 2000/11: refer back to htm file */
/*** Print out column headings ***/

/*HREF=COMPRESS("help.htm#q&var3."); */

HREF=COMPRESS("../html&prefix.&var1.-&var2.-&var3.-"||qnum||"&unq..htm");
*** RSG 08/07/03 Use qnum counter to refer to subbenefit trend pages;

*****;
/*** 4th Row (columns 2+) ***/
/*** If quarter column then HREF link is different *****/
/*** ÔÔ FRAMES SECTION ÔÔ ***/
%if &prefix=f %then %do;
        %if &var3 = 1 or &var3 = 3 %then %do;
        IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||"_trans.gif");
        %end;
        %else %if &var3 = 11 %then %do;
                IF _N_ < 3 THEN IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||"_trans.gif");
                ELSE IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
        %end;
        %else %do;
        IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
        %end;
        PUT      "<td align='center' valign='bottom'><a href="" HREF +(-1) "" &target.><IMG SRC=""
IMAGE " alt="" BENTYPE " BORDER=0></a></td>";
        %end;
        %else %do;
                %if &var3 = 1 or &var3 = 3 %then %do;
                PUT      "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href="" HREF +(-1) "" &target.> &HEADVAR. <b>#</b></a></font></td>";

```



```

        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Shows Respect";
        %end;
        %else %if &var4. = 4 %then %do;
            IF BENTYPE = "Spends Time with You";
        %end;
    %end;
%else %if &var3. = 4 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Getting Information";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Courteous Customer Service";
    %end;
%end;
%else %if &var3. = 5 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Claims Handled in a Reasonable Time";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Claims Handled Correctly";
    %end;
%end;
%else %if &var3. = 10 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Mammography";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Pap Smear";
    %end;
    %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Hypertension";
    %end;
    %else %if &var4. = 4 %then %do;
        IF BENTYPE = "Prenatal Care";
    %end;
%end;
%else %if &var3. = 11 %then %do;    /** MAB Added 2/11/2005 ***/
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Non-Smoking Rate";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Counselled To Quit";
    %end;
    %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Percent Not Obese";
    %end;
%end;

call symput('sub2_ben',BENTYPE); **create macro var to use in sub-benefit
                                trend pages (below) - RSG 08/07/03;
%end;

RUN;

DATA _NULL_;
    SET JUSTQTR END=EOF;

    FILE "&FILEOUT1." MOD ;

    COLUMNS=&columns.;
    SPAN2=ROUND(COLUMNS/2,1);
    SPAN1=COLUMNS-SPAN2;

    IF _N_=1 THEN DO;

        FILE "&FILEOUT1." MOD ;

        /** MF Changes ROW 1 **/
        PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
        PUT "<tr bgcolor='white'>";

```

```

        PUT "      <td colspan="" SPAN1 +(-1) "" valign='top' bgcolor='#999999'><img border='0'
height='25' width='242' src=&logo.></td>";
        PUT "      <td colspan="" SPAN2 +(-1) "" align='right' valign='bottom'
bgcolor='#999999'>";
        PUT "      <div align='right'>;
        PUT "      <a href='../html\&prefix.&var1.-&var2.-&var3.-0&unq.htm' &target.><img
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
        PUT "      <a href='../html\index.htm' &target.><img src=&home_but. border='0'
alt='Return to Main Page'></a>&htmlsp. &htmlsp.";

        PUT "&goback.";

        PUT "      <noscript><a href="" HREFBACK +(-1) "" &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";
        PUT "      &htmlsp.";
        PUT "      <a href='../html\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
        PUT "    </td>";
        PUT "</tr>";

        /** MF Changes ROW 2 **/

        PUT "<tr>";
        PUT "      <td valign='center' align='center' colspan="" COLUMNS +(-1) ""
bgcolor='#D8D8D8'>";
        PUT "      <font face='&fontface.' color='#3333cc' size='5'><b>&major.
&comma. &sub_regs. <br>";

        PUT "      &sub_ben.</b></font><br>";
        /** For trend data for each benefit type, display benefit type - RSG 08/07/03***/
        %if &var4. ne 0 %then %do;
        PUT "      <font face='&fontface.' color='#3333cc' size='4'><b>";
        PUT "      &sub2_ben.</b></font>";
        %end;
        PUT "    </td>";
        PUT "</tr>";

        /** 3rd Row ***/
        /** UU FRAMES SECTION UU ***/
        /**PUT "<td></td>"***/

        /** 4th Row start (column 1) ***/
        /** UU FRAMES SECTION UU ***/
        %if &prefix=f %then %do;
        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
        PUT "  <td align='left' valign='bottom'><img src='&imgdir.\blank_75_50.gif'
border=0></td>";
        %end;
        %else %do;
        PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
        PUT "  <td width='10%'>&htmlsp.</td>";
        %end;

        /*-----*/
        /* 2000/11: begin xls code */
        /*-----*/
        %if &outxls.=1 %then %do;
        FILE XLSTITLE;
        PUT "&major. &comma. &sub_regs.";
        %if &var4. = 0 %then %do;
        PUT "%cmpres('&sub_ben.')";
        %end;
        %else %do;
        PUT "%CMPRES('&sub_ben. &comma. &sub2_ben.')";
        %end;
        %end;
        /*-----*/
        /* 2000/11: begin xls code */

```

```

/*-----*/
END;

FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
/**** Print out column headings ****/

LENGTH HREFf1 $250;
LENGTH HREFf2 $250;
LENGTH HREFf3 $250;

LENGTH HREFp1 $250;
LENGTH HREFp2 $250;
LENGTH HREFp3 $250;

LENGTH HREF5 $250;

****7-29-2002 DKB ADDED LINKS TO COMPONENT PAGES OF PREVIOUS QUARTERS FROM TREND PAGE****;
*****THIS WILL NEED TO BE UPDATED EACH QUARTER*****;
***FRAMES***;
HREFf1=COMPRESS("../Period1\f&var1.-&var2.-&var3.-0.htm");
HREFf2=COMPRESS("../Period2\f&var1.-&var2.-&var3.-0.htm");
HREFf3=COMPRESS("f&var1.-&var2.-&var3.-0.htm");

***NO FRAMES***;
HREFp1=COMPRESS("../Period1\p&var1.-&var2.-&var3.-0.htm");
HREFp2=COMPRESS("../Period2\p&var1.-&var2.-&var3.-0.htm");
HREFp3=COMPRESS("p&var1.-&var2.-&var3.-0.htm");

****HELP FILE FOR TREND COLUMN****;
HREF5=COMPRESS("../html\help.htm#trend"); /*7-29-2002 DKB ADDED LINK FOR TREND SECTION
OF HELP FILE*/

*****;

/* MER 05/09/2009 Temporary fix for V4 transition
No Customer Service composite for 2007 and 2008 */
%if &var3.=4 %then %do;
HREFf1=HREF5;
HREFf2=HREF5;
HREFp1=HREF5;
HREFp2=HREF5;
%end;

/**** 4th Row (columns 2+) ****/
/**** If quarter column then HREF link is different ****/
/**** ÔÛ FRAMES SECTION ÔÛ ****/

%if &prefix=f %then %do;
%if &var3.=4 and &seppage.=2 %then %do;
IF TIMEPD = "2007" OR TIMEPD = "2008" THEN DO;
IMAGE=COMPRESS("&imgdir.\col"||_N_||"_R.gif");
END;
ELSE DO;
IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
END;
%end;
%else %if &var3.=1 or &var3.=3 %then %do;
IF TIMEPD = "Trend" THEN DO;
IMAGE=COMPRESS("&imgdir.\col"||_N_||"_trans.gif");
END;
ELSE DO;
IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
END;
%end;
%else %do;
IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif"); *DKB CHANGED IMAGE NAME FROM QTR TO COL;
%end;

IF _N_=1 THEN HREF=HREFf1;
ELSE IF _N_=2 THEN HREF=HREFf2;
ELSE IF _N_=3 THEN HREF=HREFf3;

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```

ELSE IF _N_=4 THEN HREF=HREF5;
  if timepd ne "TREND*" then
    PUT "<td align='center' valign='bottom'><a href="" HREF +(-1) "" &target.><IMG SRC=' "
IMAGE " ' alt=' " TIMEPD " ' BORDER=0></a></td>";
    else do;
      IMAGE=COMPRESS("&imgdir.\col"||_N_||"_R.gif");
      PUT "<td align='center' valign='bottom'><a href="" HREF +(-1) "" &target.><IMG SRC=' "
IMAGE " ' alt=' " TIMEPD " ' BORDER=0></a></td>";
    end;
  %end;
%else %do;
  IF _N_=1 THEN HREF=HREFp1;
  ELSE IF _N_=2 THEN HREF=HREFp2;
  ELSE IF _N_=3 THEN HREF=HREFp3;
  ELSE IF _N_=4 THEN HREF=HREF5;
  /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE*/

  %if &var3.=4 and &seppage.=2 %then %do;
    IF TIMEPD = "2007" OR TIMEPD = "2008" THEN DO;
      PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "<b>*</b></a></font></td>";
      END;
    ELSE DO;
      PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
      END;
    %end;
  %else %if &var3.=1 or &var3.=3 %then %do;
    IF TIMEPD = "Trend" THEN DO;
      PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "<b>#</b></a></font></td>";
      END;
    ELSE DO;
      PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
      END;
    %end;
  %else %do;
    PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href="" HREF +(-1) "" &target.>" &HEADVAR. "</a></font></td>";
  %end;
%end;

IF EOF THEN DO;
  PUT "</font></tr>";
END;

RUN;

%end;

/**** ÔÔ FRAMES SECTION ÔÔ ****/
%if &prefix=f %then %do;
  /**** Close out header HTML page ****/
  DATA _NULL_;
    FILE "&FILEOUT1." MOD;

    PUT "</center></table>";
    PUT "</body></html>";
  RUN;

  /**** Since done making frame 1 page then assign fileout1 = frame 2 ****/
  %let fileout1=&fileout3.;

  /**** Initialize out data HTML page ****/
  DATA _NULL_;
    FILE "&FILEOUT3.";

    PUT "<! Created &datetime.>";
    PUT "<html>";

```

```

        PUT      "<body      bgcolor='#999999'      text='#000099'      link='#660066'      alink='#660066'
vlink='#996699'>";
        PUT      "<center><table      border='1'      cellpadding='2'      cellspacing='0'      bgcolor='#D8D8D8'
cols=&columns. width=640>";
        RUN;

```

```

%end;

```

```

/*****
/**** Put out rest of table      ****/
/**** Colored scores and Stub      ****/
/****
*****/
%if &seppage.=0 OR &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
DATA HTML3;
    SET SUBSET4;

```

```

RUN;
%end;
%else %if &seppage.=1 %then %do;
DATA HTML3;
    SET SUBSET4;

```

```

    IF TIMEPD="&currentperiod.";

```

```

    /**** Since splitting up table need to delete some records ****/

```

```

%IF &VAR3. NE 0 %THEN %DO;
    IF BENTYPE="Composite" THEN DELETE;
%END;

```

```

RUN;

```

```

%end;
%else %if &seppage.=2 %then %do;

```

```

DATA HTML3;
    SET SUBSET4;
    /**** Since splitting up table need to delete some records ****/
    /**** Modified 2-2 MAB to deal with new period values **/

```

```

    IF BENTYPE=&BEN_TYPE;

```

```

RUN;
%end;

```

```

/*ÛÛÛÛ ALL MAJGRPS ÛÛÛÛ*/
%if &var1.=0 %then %do;

```

```

DATA HTML4;
    SET HTML3 END=EOF;

```

```

    IF MAJGRP="Prime Enrollees" THEN MAJNUM=1;
    IF MAJGRP="Enrollees with Military PCM" THEN MAJNUM=2;
    IF MAJGRP="Enrollees with Civilian PCM" THEN MAJNUM=3;
    IF MAJGRP="Standard/Extra Users" THEN MAJNUM=4;
    IF MAJGRP="Purchased Care Users" THEN MAJNUM=5;
    IF MAJGRP="Active Duty" THEN MAJNUM=6;
    IF MAJGRP="Active Duty Dependents" THEN MAJNUM=7;
    IF MAJGRP="Retirees and Dependents" THEN MAJNUM=8;
    IF MAJGRP="All Users" THEN MAJNUM=9;

```

```

    /**** HREF link to another page ****/
/* HREF=COMPRESS("../html/&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
   RSG 02/2005 - changed for period1-3, link goes to that period component page*/
   HREF=COMPRESS("&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");

```

```

LENGTH HREFQ LMAJGRP $ 100;
RETAIN LMAJGRP;

IF _N_=1 THEN DO;
  LMAJGRP=" ";
  ROW=0;

  /** Add links to trend data 7.6.2001 MAB ***/
  %let columns_less1=%EVAL(&columns.-1);
  %if &seppage.=0 %then %do;
    FILE "&FILEOUT1." MOD ;
    PUT "<tr bgcolor= &gray.><td width=" WIDTH_COL1 "'><font face='&fontface.'
size='2'><b>Trends</b></font></td>";

    %do i=1 %to 11;
      %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do;    ***MJS 04/14/03 Changed
8,9,10,11 to 7,8,9,10;
        HREFQ=COMPRESS("../html/&prefix.&var1.-&var2.-&i.-0q.htm");
      %end;
      %else %do;
        HREFQ=COMPRESS("../html/&prefix.&var1.-&var2.-&i.-0.htm");
      %end;
      %if &prefix.=f %then %do;
        PUT "<td width=" WIDTH3 "'><a href=" HREFQ "' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a></td>";
      %end;
      %else %do;
        PUT "<td><a href=" HREFQ "' &target.><CENTER><img src='&imgdir.\trend_row.gif'
border=0></CENTER></a></td>";
      %end;
    %end;
    PUT "</tr>";
  %end;

END;

IF LMAJGRP^=MAJGRP THEN DO;          /** Start new row ***/
  FILE "&FILEOUT1." MOD ;
  ROW+1;
  IF LMAJGRP^=" " THEN PUT "</tr>";

  /** Column 1 / Row 1 ***/
  /** ÔÛ FRAMES SECTION ÔÛ ***/
  %if &prefix.=f %then %do;
    IF MAJGRP IN("Benchmark") THEN PUT "<tr><td width=" WIDTH_COL1 "'><b><font
face='&fontface.' size='2'>" MAJGRP "</font></b></td>";    /** no HREF links ***/
  %end;
  %else %do;
    IF MAJGRP IN("Benchmark") THEN PUT "<tr><td><b><font face='&fontface.' size='2'>"
MAJGRP "</font></b></td>";    /** no HREF links ***/
  %end;

  /** Column 1 / Row 2+ ***/

  ELSE IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><a href="" HREF +(-1) "" &target.> " MAJGRP " </a></font></td>";    /** Shade row **/
  ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href="" HREF +(-1) "" &target.>
" MAJGRP " </a></font></td>";

  /*-----*/
  /* 2000/11: begin xls code */
  /*-----*/
  %if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF LMAJGRP^=" " THEN          PUT " ";
    IF REGION IN("Benchmark") THEN PUT REGION '09'x @@;    /* '09'x ensures text string is
put into one cell */
    ELSE IF MOD(ROW,2)=0 THEN          PUT MAJGRP '09'x @@;    /* rather than spanning across
cells
*/

```

```

ELSE
PUT MAJGRP '09'x @@;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

LMAJGRP=MAJGRP;
END;

/**** Column 2+ ****/
/*****
/**** Need to output different formats ****/
/*****
FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */

IF MAJGRP IN("Benchmark") THEN DO;
IF SCORE=. THEN PUT "<td width=' " WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE IF SCORE=.A THEN PUT "<td width=' " WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE PUT "<td width=' " WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.
"></font></b></td>";
END;
ELSE DO;
IF SCORE=. THEN DO;
PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
END;
ELSE IF SCORE=.A THEN DO;
PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
END;
ELSE DO;
IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2' color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i></td>";
ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5. "></font></td>";
END;
END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
FILE XLSDATA;
IF MAJGRP IN("Benchmark") THEN DO;
IF SCORE=. THEN PUT "****" '09'x @@;
ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
ELSE PUT SCORE '09'x @@;
END;
ELSE DO;
IF SCORE=. THEN DO;
PUT "****" '09'x @@;
END;
ELSE IF SCORE=.A THEN DO;
PUT "NA" '09'x @@;
END;
ELSE DO;
IF SIG=1 THEN PUT SCORE '09'x @@;
ELSE IF SIG=. THEN PUT "****" '09'x @@;
ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;
ELSE PUT SCORE '09'x @@;

```



```

        END;
    END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ;                /* 2000/11: to refer back to htm file */
    PUT "</tr>"; /*** terminate last row ***/

    %BOTTOM_NOTES; /*** Macro with bottom notes **/

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
    %if &outxls.=1 %then %do;
        FILE XLSDATA;
        PUT; PUT;
        %if (&var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2) %then %do;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 through
&SRCYR2"; /***MJS 03/24/04 Changed hard-coded year to macro variable;
                                                    /* MER 11/21/08
Changed "and" to "through" */
        %end;
        %else %do;
            PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; /***MJS 03/24/04
Changed hard-coded year to macro variable;
        %end;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            %if &var3.=4 and &seppage.=2 %then %do;
                PUT "** Indicates scores were not available that year";
            %end;
            PUT "*** Indicates suppressed due to small sample size";
            %if &var3.=0 %then %do;
                PUT "# Indicates change to composite";
            %end;
            %else %if &var3.=1 or &var3.=3 or (&var3.=11 and &seppage.=1) %then %do;
                PUT "# Indicates change to questions";
            %end;
        %end;

    /*-----*/
    /* 2000/11: end xls code */
    /*-----*/

    END;
    RUN;
%end;

/* All Regions */
%if &var2.=0 %then %do;
DATA HTML4;
    SET HTML3 END=EOF;

    LENGTH LREGION HREFQ $ 100;
    RETAIN LREGION;

    IF _N_=1 THEN DO;
        LREGION=" ";
        REGNUM=1;
        ROW=0;

        %let columns_less1=%EVAL(&columns.-1);

```

```

    %if &seppage.=0 %then %do;
        FILE "&FILEOUT1." MOD ;
        PUT "<tr bgcolor= &gray.><td width=" WIDTH_COL1 "'><font face='&fontface.'
size='2'><b>Trends</b></font></td>";

        %do i=1 %to 11;    ***RSG 02/2005 changed 11 to 12 since we now have 12 benefits;
            %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do;    ***MJS 04/14/03 Changed
from 8,9,10,11 to 7,8,9,10;
                HREFQ=COMPRESS("../html\&prefix.&var1.-&var2.-&i.-0q.htm");    /** href to 2nd
html file ***/
                %end;

            %else %do;
                HREFQ=COMPRESS("../html\&prefix.&var1.-&var2.-&i.-0.htm");    /** href to 2nd
html file ***/
                %end;
            %if &prefix.=f %then %do;
                PUT "<td width=" WIDTH3 "'><a href=" HREFQ "' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a></td>";
                %end;
            %else %do;
                PUT "<td><a href=" HREFQ "' &target.><CENTER><img src='&imgdir.\trend_row.gif'
border=0></CENTER></a></td>";
                %end;
            %end;
            PUT "</tr>";
        %end;

END;

IF LREGION^=REGION THEN DO;    /** Start new row ***/
    FILE "&FILEOUT1." MOD ;
    ROW+1;
    IF LREGION^=" " THEN PUT "</tr>";    /** terminate previous row ***/

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF LREGION^=" " THEN PUT " ";    /** terminate previous row ***/
    FILE "&FILEOUT1." MOD ;    /** 2000/11: to refer back to htm file */
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

/** Column 1 / Row 1 ***/
/** UU FRAMES SECTION UU ***/
%if &prefix.=f %then %do;
    IF REGION IN("Benchmark") THEN PUT "<tr><td width=" WIDTH_COL1 "'><b><font
face='&fontface.' size='2'>" REGCAT "</font></b></td>";    /** no HREF links ***/
%end;
%else %do;
    IF REGION IN("Benchmark") THEN PUT "<tr><td><b><font face='&fontface.' size='2'>"
REGCAT "</font></b></td>";    /** no HREF links ***/
%end;
ELSE DO;    /** HREF links for each region ***/

    /*HREF=COMPRESS("../html\&prefix.&var1.-"||REGNUM||"-&var3.-&var4.&q..htm");*/    /** MAB
3-16-2005 Added VAR1 ***/
    /*RSG 02/2005 - Changed link so period1-3 will link to appropriate component page*/
    HREF=COMPRESS("&prefix.&var1.-"||REGNUM||"-&var3.-&var4.&q..htm");

    /** Column 1 / Row 2+ ***/
    %if &prefix.=f %then %do;
        %if &var1.=3 or &var1.=4 or &var1.=5 or &var1.=7 or &var1.=8 %then %do;
            IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'> " REGCAT " </font></td>";

```

```

ELSE PUT "<tr><td><font face='&fontface.' size='2'> " REGCAT " </font></td>";
%end;
%else %do;
    if regcat = "NORTH" or regcat = "SOUTH" or regcat="WEST" or
        regcat = "OVERSEAS" or regcat="US MHS" then do;
        IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><b><font face='&fontface.'
size='2'> " REGCAT " </b></font></td>";
        ELSE PUT "<tr><td><b><font face='&fontface.' size='2'> " REGCAT "
</b></font></td>";
        end;
        else if regcat = "ARMY" or regcat = "NAVY" or regcat = "AIR FORCE" or
            regcat = "OTHER" then do;
            IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'> " REGCAT " </font></td>";
            ELSE PUT "<tr><td><font face='&fontface.' size='2'> " REGCAT "
</font></td>";
            end;
            else do;
            IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><a href="" HREF +(-1) "" &target.> " REGCAT " </a></font></td>"; /** Shade row **/
            ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href="" HREF +(-1)
"" &target.> " REGCAT " </a></font></td>";
            end;
            %end;
            %end;
            %else %do;
            %if &var1.=3 or &var1.=4 or &var1.=5 or &var1.=7 or &var1.=8 %then %do;
            IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'> " REGCAT " </font></td>";
            ELSE PUT "<tr><td><font face='&fontface.' size='2'> " REGCAT " </font></td>";
            %end;
            %else %do;
            if regcat = "NORTH" or regcat = "SOUTH" or regcat="WEST" or
                regcat = "OVERSEAS" or regcat="US MHS" then do;
                IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><b><font face='&fontface.'
size='2'> " REGCAT " </b></font></td>";
                ELSE PUT "<tr><td><b><font face='&fontface.' size='2'> " REGCAT "
</b></font></td>";
                end;
                else if regcat = "ARMY" or regcat = "NAVY" or regcat = "AIR FORCE" or
                    regcat = "OTHER" then do;
                    IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'> " REGCAT " </font></td>";
                    ELSE PUT "<tr><td><font face='&fontface.' size='2'> " REGCAT "
</font></td>";
                    end;
                    else do;
                    IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><a href="" HREF +(-1) "" &target.> " REGCAT " </a></font></td>"; /** Shade row **/
                    ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href="" HREF +(-1)
"" &target.> " REGCAT " </a></font></td>";
                    end;
                    %end;
                    %end;
                    %end;
                    REGNUM+1;

END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF REGION IN("Benchmark") THEN PUT REGCAT '09'x @@; /* no logic difference */
    ELSE DO;
        IF MOD(ROW,2)=0 THEN PUT REGCAT '09'x @@; /* just presentation difference
in htm */
        ELSE PUT REGCAT '09'x @@; /* keeping as is to preserve
htm code structure */
    END;
%end;
/*-----*/

```

```

/* 2000/11: end xls code */
/*-----*/

LREGION=REGION;
END;

/**** Column 2+ ****/
/*****
/**** Need to output different formats ****/
/*****
FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
IF REGION IN("Benchmark") THEN DO;
  %if &prefix.=f %then %do;
    IF SCORE=. THEN PUT "<td width=" WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF SCORE=.A THEN PUT "<td width=" WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE PUT "<td width=" WIDTH3 " ' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.
"></font></b></td>";
  %end;
  %else %do;
    IF SCORE=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF SCORE=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE PUT "<td align='center' valign='bottom'><b><font face='&fontface.' color=&blue.
size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
  %end;
END;
ELSE DO;
  IF SCORE=. THEN DO;
    PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
  END;
  ELSE IF SCORE=.A THEN DO;
    PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
  END;
  ELSE DO;
    IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2' color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i></td>";
    ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5. "></font></td>";
  END;
END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
FILE XLSDATA;
IF REGION IN("Benchmark") THEN DO;
  IF SCORE=. THEN PUT "****" '09'x @@;
  ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
  ELSE PUT SCORE '09'x @@;
END;
ELSE DO;
  IF SCORE=. THEN DO;
    PUT "****" '09'x @@;
  END;
  ELSE IF SCORE=.A THEN DO;
    PUT "NA" '09'x @@;
  END;
  ELSE DO;
    IF SIG=1 THEN PUT SCORE '09'x @@;

```

```

ELSE IF SIG=. THEN PUT "****" '09'x @@;
ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;
ELSE PUT SCORE '09'x @@;
END;
END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

IF EOF THEN DO;
FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
PUT "</tr>"; /*** terminate last row ***/

%BOTTOM_NOTES; /*** Macro with bottom notes **/

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
FILE XLSDATA;
PUT; PUT;
%if (&var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2) %then %do;
PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 through
&SRCYR2"; /***MJS 03/24/04 Changed hard-coded year to macro variable; /* MER 11/21/08
Changed "and" to "through" */
%end;
%else %do;
PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; /***MJS 03/24/04
Changed hard-coded year to macro variable;
%end;
PUT "Indicates score significantly exceeds benchmark";
PUT "Indicates score significantly falls short of benchmark";
PUT "NA Indicates not applicable";
%if &var3.=4 and &seppage.=2 %then %do;
PUT "* Indicates scores were not available that year";
%end;
PUT "*** Indicates suppressed due to small sample size";
%if &var3.=0 %then %do;
PUT "# Indicates change to composite";
%end;
%else %if &var3.=1 or &var3.=3 or (&var3.=11 and &seppage.=1) %then %do;
PUT "# Indicates change to questions";
%end;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

END;

RUN;

%end;

/* Single Regions */
/* This code is not applicable for the 2000 report cards */
/* since not enough data to display sub-region info. */
/* Will leave in code in case this changes */
%if &var2.^=0 AND &var1.^=0 %then %do;
DATA HTML4;
SET HTML3 END=EOF;

```

```

LENGTH LREGCAT $ 100;
RETAIN LREGCAT;

IF _N_=1 THEN DO;
  LREGCAT=" ";
  ROW=0;
END;

IF LREGCAT^=REGCAT THEN DO;          /*** Start new row ***/
  FILE "&FILEOUT1." MOD ;
  ROW+1;
  IF LREGCAT^=" " THEN PUT "</tr>"; /*** terminate previous row ***/
  IF REGCAT IN("Benchmark") THEN PUT "<tr><td width=' " WIDTH_COL1 "'><b><font
face='&fontface.' size='2'>" REGCAT "</font></b></td>";
  ELSE IF SUBSTR(REGCAT,1,2) = "US" THEN PUT "<tr bgcolor= &gray.><td><b><font
face='&fontface.' size='2'>" REGCAT "</font></b></td>";
  ELSE IF REGCAT NE "ARMY" AND REGCAT NE "NAVY" AND REGCAT NE "AIR FORCE" AND REGCAT NE
"OTHER" AND
      UPCASE(SUBSTR(REGCAT,1,5)) NE "NORTH" AND UPCASE(SUBSTR(REGCAT,1,5)) NE "SOUTH" AND
      UPCASE(SUBSTR(REGCAT,1,4)) NE "WEST" AND UPCASE(SUBSTR(REGCAT,1,8)) NE "OVERSEAS"
THEN DO;
  IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><a href=\"..\\HTML\\help.htm#MTFs\">" REGCAT "</a></font></td>"; /*** Shade row **/
  ELSE PUT "<tr><td><font face='&fontface.' size='2'><a
href=\"..\\HTML\\help.htm#MTFs\">" REGCAT "</a></font></td>";
  END;
  ELSE DO;
  IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'>" REGCAT "</font></td>"; /*** Shade row **/
  ELSE PUT "<tr><td><font face='&fontface.' size='2'>" REGCAT "</font></td>";
  END;

  /*-----*/
  /* 2000/11: begin xls code */
  /*-----*/
  %if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF LREGCAT^=" " THEN PUT " ";
    IF REGCAT IN("Benchmark") THEN          PUT REGCAT '09'x @@;          /* no logic
difference */
    ELSE IF SUBSTR(REGCAT,1,5) = "CONUS" THEN PUT REGCAT '09'x @@;      /*** MAB 3/27/2005
Fixed error ***/
    ELSE IF MOD(ROW,2)=0 THEN              PUT REGCAT '09'x @@;          /* just presentation
difference in htm */
    ELSE                                  PUT REGCAT '09'x @@;          /* keeping as is to
preserve htm code structure */
  %end;
  /*-----*/
  /* 2000/11: end xls code */
  /*-----*/

  LREGCAT=REGCAT;

END;

/***** Need to output different formats *****/
/***** refer back to htm file *****/
FILE "&FILEOUT1." MOD ;          /* 2000/11: refer back to htm file */
IF REGION IN("Benchmark") THEN DO;
  IF SCORE=. THEN PUT "<td width=' " WIDTH3 "' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
  ELSE IF SCORE=.A THEN PUT "<td width=' " WIDTH3 "' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
  ELSE PUT "<td width=' " WIDTH3 "' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.
"></font></b></td>";
  END;
ELSE DO;
  IF SCORE=. THEN DO;

```

```

        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5.  "></font></b></td>";
    END;
    ELSE IF SCORE=.A THEN DO;
        PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5.  "></font></b></td>";
    END;
    ELSE DO;
        IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2' color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
        ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
        ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
        ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></i></td>";
        ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></td>";
    END;
END;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/
%if &outxls.=1 %then %do;
    FILE XLSDATA;
    IF REGION IN("Benchmark") THEN DO;
        IF SCORE=. THEN PUT "****" '09'x @@;
        ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
        ELSE PUT SCORE '09'x @@;
    END;
    ELSE DO;
        IF SCORE=. THEN DO;
            PUT "****" '09'x @@;
        END;
        ELSE IF SCORE=.A THEN DO;
            PUT "NA" '09'x @@;
        END;
        ELSE DO;
            IF SIG=1 THEN PUT SCORE '09'x @@;
            ELSE IF SIG=. THEN PUT "****" '09'x @@;
            ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
            ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;
            ELSE PUT SCORE '09'x @@;
        END;
    END;
END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ; /* 2000/11: refer back to htm file */
    PUT "</tr>"; /** terminate last row **/

    %BOTTOM_NOTES; /** Macro with bottom notes **/

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
    %if &outxls.=1 %then %do;
        FILE XLSDATA;
        PUT; PUT;
        %if (&var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2) %then %do;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 through
&SRCYR2"; ***MJS 03/24/04 Changed hard-coded year to macro variable; /* MER 11/21/08
Changed "and" to "through" */
        %end;
        %else %do;
            PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04
Changed hard-coded year to macro variable;

```

```

%end;
  PUT "Indicates score significantly exceeds benchmark";
  PUT "Indicates score significantly falls short of benchmark";
  PUT "NA Indicates not applicable";
  %if &var3.=4 and &seppage.=2 %then %do;
    PUT "* Indicates scores were not available that year";
  %end;
%end;
  PUT "*** Indicates suppressed due to small sample size";
  %if &var3.=0 %then %do;
    PUT "# Indicates change to composite";
  %end;
  %else %if &var3.=1 or &var3.=3 or (&var3.=11 and &seppage.=1) %then %do;
    PUT "# Indicates change to questions";
  %end;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

END;

RUN;

%end;

/***** Print out footer info *****/
DATA _NULL_;
  FILE "&FILEOUT1." MOD ;
  LENGTH HREF $250;

  /** Determine where back button should link to **/
  %if &var1.=0 %then %do;
    HREFBACK=COMPRESS("&prefix.9-0-0-0.htm");
  %end;
  %else %do;
    HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
  %end;

  /** MF Changes **/
  PUT "<tr>";
  PUT "  <td colspan='&columns.'>";
  PUT "    <center>";
  PUT "      <a href='../html\index.htm' &target.><img src=&home_but. border='0'
alt='Return to Main Page'></a>&htmlsp.&htmlsp.";
  /** 7-17 MAB added JS code to go back ***/
  PUT "&goback.";
  PUT "      <noscript><a href=''" HREFBACK +(-1) "" &target.><img src=&back_but.
border='0' alt='Return to Top Level'></a></noscript>";

  PUT "      <a href='../html\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a><br>";
  PUT "      <font face='Arial,Helvetica,Swiss,Geneva' size='2'><b>&grpmsg.<br>";
  PUT "      </b></font>";

  majgrp1=COMPRESS("&prefix.1-&var2.-&var3.-&var4.&q..htm");
  majgrp2=COMPRESS("&prefix.2-&var2.-&var3.-&var4.&q..htm");
  majgrp3=COMPRESS("&prefix.3-&var2.-&var3.-&var4.&q..htm");
  Civilian PCM;
  majgrp4=COMPRESS("&prefix.4-&var2.-&var3.-&var4.&q..htm");
  to 3-7;
  majgrp5=COMPRESS("&prefix.5-&var2.-&var3.-&var4.&q..htm");
  11/11/09 */
  majgrp6=COMPRESS("&prefix.6-&var2.-&var3.-&var4.&q..htm");
  majgrp7=COMPRESS("&prefix.7-&var2.-&var3.-&var4.&q..htm");
  majgrp8=COMPRESS("&prefix.8-&var2.-&var3.-&var4.&q..htm");
  majgrp9=COMPRESS("&prefix.9-&var2.-&var3.-&var4.&q..htm");
  /**MJS 05/04/03 Removed
  ***(majgrp3), and changed 4-8
  /* added purchased care MER
  /**RSG - ADD IN MAJGRP 8**/

```



```

    /*** Certain major groups are not large enough to show ***/
    /*** catchment level detail. So if we are in html file ***/
    /*** which has this detail then don't link to a html ***/
    /*** file which doesn't exist ***/

    %if &var1.^=0 %then %do;
        %if &var1.^=3 and &var1.^=4 and &var1.^=5 and &var1.^=7 and &var1.^=8 and &var2.^=0 %then
%do;

        PUT "<a href="" MAJGRP1 +(-1) "" &target.><font face='&fontface.' size='2'>Prime
Enrollees</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP2 +(-1) "" &target.><font face='&fontface.' size='2'>Enrollees
with Military PCM</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP6 +(-1) "" &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP9 +(-1) "" &target.><font face='&fontface.' size='2'>All
Users</font></a>";

        %end;
        %else %do;

        PUT "<a href="" MAJGRP1 +(-1) "" &target.><font face='&fontface.' size='2'>Prime
Enrollees</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP2 +(-1) "" &target.><font face='&fontface.' size='2'>Enrollees
with Military PCM</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP3 +(-1) "" &target.><font face='&fontface.' size='2'>Enrollees
with Civilian PCM</font></a>&htmlsp.&htmlsp."; /*RSG 02/2005 added Civilian PCM*/
        PUT "<a href="" MAJGRP4 +(-1) "" &target.><font face='&fontface.'
size='2'>Standard/Extra Users</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP5 +(-1) "" &target.><font face='&fontface.' size='2'>Purchased
Care Users</font></a>&htmlsp.&htmlsp.";
        PUT "<br>";
        PUT "<a href="" MAJGRP6 +(-1) "" &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP7 +(-1) "" &target.><font face='&fontface.' size='2'>Active Duty
Dependents</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP8 +(-1) "" &target.><font face='&fontface.' size='2'>Retirees
and Dependents</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP9 +(-1) "" &target.><font face='&fontface.' size='2'>All
Users</font></a>";

        %end;
    %end;

    /*** link to printer friendly version moved C.Rankin 10/25/2001 ***/

    /*** If creating frames need link to printer friendly version of file ***/
    %if &prefix=f %then %do;
        HREFP=COMPRESS("&p&var1.-&var2.-&var3.-&var4.&q..htm");
        PUT " <br><font face='Arial,Helvetica,Swiss,Geneva' size='1'><a href=' '
&target.><img src='&imgdir.\printer.gif' alt='Printer Friendly Page' border=0>Printer Friendly
Page</a></font>
        %end;

RUN;

    /*** Close HTML page ***/
    DATA _NULL_;
        FILE "&FILEOUT1." MOD ;

        PUT "</center></td></tr></table>";
        PUT "</body></html>";

RUN;

/*-----*/
/* 2000/12: begin xls color code */

```

```

/*-----*/
%if &outxls.=1 %then %do;
  FILENAME CMDS DDE 'excel|system';

  /* Align 2 titles */
  DATA _NULL_;
  FILE CMDS;
  %if &var3 = 3 or &var3 = 6 %then %do;
    CELL=COMPRESS("[SELECT("R1C1:R1C"||4|"")]); PUT CELL;
    PUT '[ALIGNMENT(3, False, 3,0, False,,True)]'; /** Merges titles across columns **/
    CELL=COMPRESS("[SELECT("R2C1:R2C"||4|"")]); PUT CELL;
    PUT '[ALIGNMENT(3, False, 3,0, False,,True)]'; /** Merges titles across columns **/
  %end;
  %else %do;
    CELL=COMPRESS("[SELECT("R1C1:R1C"||&columns.|"")]); PUT CELL;
    PUT '[ALIGNMENT(3, False, 3,0, False,,True)]'; /** Merges titles across columns **/
    CELL=COMPRESS("[SELECT("R2C1:R2C"||&columns.|"")]); PUT CELL;
    PUT '[ALIGNMENT(3, False, 3,0, False,,True)]'; /** Merges titles across columns **/
  %end;

  RUN;

  DATA _NULL_;
  FILE CMDS;
  SET HTML4(DROP=ROW) END=EOF;

  RETAIN ROW COLUMN;

  /** Need to initialize row and column pointers **/
  IF _N_=1 THEN DO;
    ROW=6;
    COLUMN=1;
  END;

  COLUMN=COLUMN+1;
  IF COLUMN>&columns. THEN DO;
    ROW=ROW+1;
    COLUMN=2;
  END;

  CELL=COMPRESS("[SELECT("R"||ROW|"C"||COLUMN|":R"||ROW|"C"||COLUMN|"")]);
  PUT CELL;

  /** Before color cell center data **/
  PUT '[ALIGNMENT(3, False, 3,0, False)]';

  IF REGION IN("Benchmark") OR MAJGRP IN("Benchmark") THEN PUT
  '[FORMAT.FONT("Arial",10,True,False,False,9)]'; /** BOLD & DARK RED **/
  ELSE IF SCORE NOT IN(.,.A) THEN DO;
    IF SIG=1 THEN PUT '[FORMAT.FONT("Arial",10,True,False,False,10)]'; /**
  BOLD & GREEN **/
    ELSE IF SIG=-1 THEN PUT '[FORMAT.FONT("Arial",10,False,True,False,3)]'; /** RED
  **/
    ELSE PUT '[FORMAT.FONT("Arial",10,False,False,False,5)]'; /** BLUE **/
  END;

  /** If last record then output footer **/
  IF EOF THEN DO;
    ROW=ROW+3; COLUMN=1;
    CELL=COMPRESS("[SELECT("R"||ROW|"C"||COLUMN|":R"||ROW|"C"||COLUMN|"")]);
    PUT CELL;
    PUT '[FORMAT.FONT("Arial",10,True,False,False,10)]'; /** BOLD & GREEN
  **/
    ROW=ROW+1;
    CELL=COMPRESS("[SELECT("R"||ROW|"C"||COLUMN|":R"||ROW|"C"||COLUMN|"")]);
    PUT CELL;
    PUT '[FORMAT.FONT("Arial",10,False,True,False,3)]'; /** RED **/
  END;
  RUN;

```



```

%DO J = 7 %TO 10;
  %MKHTML(&I.,&J.,&K.,1,0);
  %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
    %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4;
    %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
  %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
  %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
  %ELSE %IF &K.=11 %THEN %DO L = 0 %TO 3;
  %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
%end;
%END;
%DO J = 12 %TO 15;
  %MKHTML(&I.,&J.,&K.,1,0);
  %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
    %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4;
    %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
  %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
  %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
  %ELSE %IF &K.=11 %THEN %DO L = 0 %TO 3;
  %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
%end;
%END;
%DO J = 17 %TO 20;
  %MKHTML(&I.,&J.,&K.,1,0);
  %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
    %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4;
    %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
  %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
  %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
  %ELSE %IF &K.=11 %THEN %DO L = 0 %TO 3;
  %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
%end;
%END;
%DO J = 22 %TO 24;
  %MKHTML(&I.,&J.,&K.,1,0);
  %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
    %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4;
    %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
  %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
  %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
  %ELSE %IF &K.=11 %THEN %DO L = 0 %TO 3;
  %MKHTML(&I.,&J.,&K.,2,&L.);
  %END;
%end;
%END;

%END;
%MEND DOALL4;

  /*** Create 16 HTML pages (8 Majgrps / 16 Regions / All Benefits) ***/
%MACRO DOALL5(I=);
  %DO J=7 %TO 10;
    %MKHTML(&i.,&j.,0,0,0);
  %END;
  %DO J=12 %TO 15;
    %MKHTML(&i.,&j.,0,0,0);
  %END;

```

```

%DO J=17 %TO 20;
    %MKHTML(&i.,&j.,0,0,0);
%END;
%DO J=22 %TO 24;
    %MKHTML(&i.,&j.,0,0,0);
%END;

%MEND DOALL5;

/**** Run macro to create Frame HTML files ****/

%LET PREFIX=f;
%LET OUTXLS=0;
%DOALL1;
%DOALL2;
%DOALL4(I=1);
%DOALL4(I=2);
%DOALL4(I=6);
%DOALL4(I=9);
%DOALL5(I=1);
%DOALL5(I=2);
%DOALL5(I=6);
%DOALL5(I=9);

/**** Run macro to create Printer Friendly HTML files (non-frames) ****/

%LET PREFIX=p;
%LET OUTXLS=0;
%DOALL1;
%DOALL2;
%DOALL4(I=1);
%DOALL4(I=2);
%DOALL4(I=6);
%DOALL4(I=9);
%DOALL5(I=1);
%DOALL5(I=2);
%DOALL5(I=6);
%DOALL5(I=9);

/**** Run macro to create Excel files ONLY ****/

%LET PREFIX=p;
%LET OUTXLS=1;
%DOALL1;
%DOALL2;
%DOALL4(I=1);
%DOALL4(I=2);
%DOALL4(I=6);
%DOALL4(I=9);
%DOALL5(I=1);
%DOALL5(I=2);
%DOALL5(I=6);
%DOALL5(I=9);

%PUT "&number_html_files. HTML files created.";

```

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APPENDIX H

**SAS CODE FOR 2010 TRICARE CONSUMER WATCH -
QUARTERS I-IV AND COMBINED ANNUAL**

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H.1.A CONSUMERWATCH\CONSUMERWATCH-CMACRO.INC - PRODUCE NUMBERS FOR ANNUAL CONSUMER WATCH REPORTS.

```

*****
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-Cmacro.INC
* PURPOSE: To pull from Beneficiary Reports the numbers that go into the data
*          sheet in Excel to produce graphs
*          Catchment level only
* AUTHOR  : NATALIE JUSTH
* DATE    : 2/12/02
* UPDATED: 2/5/03
* UPDATED: 11/17/03
* UPDATED: 03/15/2005 LUCY LU
*          --REMOVE LIBNAME FORM THE PROGRAM
*          --SUBSTITUTE ACTUAL YEAR VALUES BY MACRO YEAR VARIABLES
*          --ADD SMOKING CESSATION RATE ON PREVENTIVE CARE TABLE
* UPDATED: 01/31/2006 LUCY LU FOR 2005 ANNUAL CATCHMENT
*          --CHANGE 'CHOLESTEROL TESTING' TO 'PERCENT OF NORMAL WEIGHT'
* UPDATED: 04/07/2006 LUCY LU: ADD THE CODE TO COMPARE THE ANNUAL COMSUMER WATCH
*          WITH REPORT CARDS IN SCORESAND SIGNIFICANCE.
* MODIFIED 11/24/09 BY LUCY LU
*          1.START THIS YEAR, THE DATA DOES NOT INCLUDE THE VALUE OF
*          'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
*          RELATED CODE.
*          2.CHANGE IN CLCULATION OF VARIABLE SCORE
* MODIFIED 7/23/2010 BY LUCY LU
*          1. ADD MACRO TO MINIMIZE EXCEL WAITING, REDUCE PROGRAM
*          RUNNING TIME
*          2. ELIMINATE UNNECESSARY MACRO VARIABLE &VAL
*
*
* INPUT  : ..\..\..\YEAR.\PROGRAMS\LOADWEB\TREND_A.SAS7BDAT
* OUTPUT : INTO EXCEL SPREADSHEET
*****;

OPTIONS NOXWAIT NOFMterr /*MPRINT*/;

TITLE "Consumer Watch &YEAR. - Catchment";

%MACRO RUNCW (AREA=, /*AREA=Catchment area */
             NAME=, /*NAME=Name of Excel file being created for catchment area */
             FOLDER= /*FOLDER=Regional folder */
             );

/* Change parameter for each catchment area */

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;

    LENGTH FID RC START STOP TIME 8;
    FID = FOPEN('CMDS' , 'S');
    IF (FID LE 0) THEN DO;
        RC = SYSTEM('START EXCEL');
        START = DATETIME();
        STOP = START + 10;
        DO WHILE (FID LE 0);
            FID = FOPEN('CMDS' , 'S');
            TIME = DATETIME();
            IF (TIME GE STOP) THEN FID = 1;
        END;
    END;
    RC = FCLOSE(FID);
RUN;

*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME;

%MACRO SETUP;

%GLOBAL OPENXLS SAVEXLS;

DATA _NULL_;

```

```

SINGLE=" ";
DOUBLE=" ";

LENGTH OPENXLS SAVEXLS $120;
OPENXLS=SINGLE || "[OPEN( " || DOUBLE || "&PATH.\templateAnnual.XLSB" || DOUBLE || " )]" || SINGLE;
SAVEXLS=SINGLE || "[SAVE.AS( " || DOUBLE || "&PATH.\&FOLDER.\&NAME..XLSB" || DOUBLE || " )]" || SINGLE;

CALL SYMPUT ( "OPENXLS",TRIM(OPENXLS));
CALL SYMPUT ( "SAVEXLS",TRIM(SAVEXLS));

RUN;

%MEND SETUP;

%SETUP;

DATA _NULL_;

FILE CMDS;
PUT &OPENXLS;
X=SLEEP(2);
PUT '[ERROR(FALSE)]';
PUT &SAVEXLS;
PUT '[app.minimize()]';

RUN;

*****
* FIGURE 1: Health Care Rating
*****;
TITLE2 'Figure 1: Health Care Rating';
PROC FREQ DATA=TREND_A;
WHERE MAJGRP = 'Prime Enrollees'
AND REGCAT in ("%AREA", "Benchmark")
AND BENEFIT = 'Health Care'
AND TIMEPD IN ("%YEARP2.", "%YEARP1.", "%YEAR.");
TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/NOPRINT OUT=FIG1_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ DATA=TREND_A;
WHERE MAJGRP = 'Prime Enrollees'
AND REGCAT = 'Benchmark'
AND BENEFIT = 'Health Care'
AND TIMEPD = "%YEAR.";
TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/NOPRINT OUT=FIG1_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG1_SC FIG1_A(KEEP=SCORE TIMEPD);
SET FIG1_SC;
IF REGCAT='Benchmark' THEN OUTPUT FIG1_A;
ELSE OUTPUT FIG1_SC;
RUN;
PROC SORT DATA=FIG1_SC;
BY TIMEPD;
RUN;
PROC SORT DATA=FIG1_A;
BY TIMEPD;

/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG1;
SET FIG1_SC;

KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;

/*
DATA FIG1_SC(DROP=ASCORE);
MERGE FIG1_SC
FIG1_A(RENAME=(SCORE=ASCORE));
BY TIMEPD;
SCORE=SCORE-ASCORE;
RUN;
*/
DATA FIG1;
SET FIG1_BE FIG1_SC;

```

```

RETAIN BSCORE;
IF REGCAT = 'Benchmark' THEN DO;
  ROW = 1;
  BSCORE=SCORE;
END;
ELSE IF TIMEPD = "&YEARP2." THEN DO;
  ROW = 2;
  * SCORE=BSCORE+SCORE;
END;
ELSE IF TIMEPD = "&YEARP1." THEN DO;
  ROW = 3;
  * SCORE=BSCORE+SCORE;
END;
ELSE IF TIMEPD = "&YEAR." THEN DO;
  ROW =4 ;
  * SCORE=BSCORE+SCORE;
END;

COL2 = SCORE / 100;
COL3 = SIG;
RUN;

PROC SORT;
  BY ROW;
RUN;
*TITLE2 'FIGURE 1';
*PROC PRINT;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;
FILENAME CMDS DDE "EXCEL|SYSTEM";

FILENAME TBL DDE "EXCEL|RATINGS!R18C2:R21C3";

DATA _NULL_;
  SET FIG1;
  FILE TBL NOTAB LRECL=200;
  PUT COL2 '09'X COL3;
RUN;

*****
* FIGURE 2: Health Plan Rating
*****;
TITLE2 'Figure 2: Health Plan Rating';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA","Benchmark")
    AND BENEFIT = 'Health Plan'
    AND TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG2_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT = 'Health Plan'
    AND TIMEPD = "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG2_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG2_SC FIG2_A(KEEP=SCORE TIMEPD);
  SET FIG2_SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG2_A;
  ELSE OUTPUT FIG2_SC;
RUN;

/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG2;
  SET FIG2_SC;

KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;

PROC SORT DATA=FIG2_SC;

```

```

    BY TIMEPD;
RUN;
PROC SORT DATA=FIG2_A;
    BY TIMEPD;
RUN;
/*
DATA FIG2_SC(DROP=AScore);
    MERGE FIG2_SC
        FIG2_A(RENAME=(SCORE=AScore));
    BY TIMEPD;
    SCORE=SCORE-AScore;
RUN;
*/
DATA FIG2;
    SET FIG2_BE FIG2_SC;
    RETAIN BSCORE;
    IF REGCAT = 'Benchmark' THEN DO;
        ROW = 1;
        BSCORE=SCORE;
    END;
    ELSE IF TIMEPD = "&YEARP2." THEN DO;
        ROW = 2;
        * SCORE=BSCORE+SCORE;
    END;
    ELSE IF TIMEPD = "&YEARP1." THEN DO;
        ROW = 3;
        * SCORE=BSCORE+SCORE;
    END;
    ELSE IF TIMEPD = "&YEAR." THEN DO;
        ROW = 4;
        * SCORE=BSCORE+SCORE;
    END;

    COL2 = SCORE / 100;
    COL3 = SIG;
RUN;

PROC SORT;
    BY ROW;
RUN;
*TITLE2 'FIGURE 2';
*PROC PRINT;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;

FILENAME TBL DDE "EXCEL|RATINGS!R18C6:R21C7";

DATA _NULL_;
    SET FIG2;
    FILE TBL NOTAB LRECL=200;
    PUT COL2 '09'X COL3;
RUN;

*****
* FIGURE 3: Personal Doctor
*****;
TITLE2 'Figure 3: Personal Doctor Rating';
PROC FREQ NOPRINT DATA=TREND_A;
    WHERE MAJGRP = 'Prime Enrollees'
        AND REGCAT in ("&AREA","Benchmark")
        AND BENEFIT = 'Personal Doctor'
        AND TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
    TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG3_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
    WHERE MAJGRP = 'Prime Enrollees'
        AND REGCAT = 'Benchmark'
        AND BENEFIT = 'Personal Doctor'
        AND TIMEPD = "&YEAR.";
    TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG3_BE(DROP=COUNT PERCENT);
RUN;

```

```

DATA FIG3_SC FIG3_A(KEEP=SCORE TIMEPD);
  SET FIG3_SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG3_A;
  ELSE OUTPUT FIG3_SC;
RUN;

/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG3;
  SET FIG3_SC;

KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;

PROC SORT DATA=FIG3_SC;
  BY TIMEPD;
RUN;
PROC SORT DATA=FIG3_A;
  BY TIMEPD;
RUN;
/*
DATA FIG3_SC(DROP=ASCORE);
  MERGE FIG3_SC
        FIG3_A(RENAME=(SCORE=ASCORE));
  BY TIMEPD;
  SCORE=SCORE-ASCORE;
RUN;
*/

DATA FIG3;
  SET FIG3_BE FIG3_SC;
  RETAIN BSCORE;
  IF REGCAT = 'Benchmark' THEN DO;
    ROW = 1;
    BSCORE=SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP2." THEN DO;
    ROW = 2;
    * SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP1." THEN DO;
    ROW = 3;
    * SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEAR." THEN DO;
    ROW = 4;
    * SCORE=BSCORE+SCORE;
  END;

  COL2 = SCORE / 100;
  COL3 = SIG;
RUN;

PROC SORT;
  BY ROW;
RUN;
*TITLE2 'FIGURE 3';
*PROC PRINT;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;

FILENAME TBL DDE "EXCEL|RATINGS!R18C10:R21C11";

DATA _NULL_;
  SET FIG3;
  FILE TBL NOTAB LRECL=200;
  PUT COL2 '09'X COL3;
RUN;

*****

```

```

* FIGURE 4: Specialist Rating
*****;
TITLE2 'Figure 4: Specialist Rating';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("%AREA","Benchmark")
    AND BENEFIT = 'Specialty Care'
    AND TIMEPD IN ("%YEARP2.", "%YEARP1.", "%YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG4_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT = 'Specialty Care'
    AND TIMEPD = "%YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG4_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG4_SC FIG4_A(KEEP=SCORE TIMEPD);
  SET FIG4_SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG4_A;
  ELSE OUTPUT FIG4_SC;
RUN;

/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG4;
  SET FIG4_SC;

KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;

PROC SORT DATA=FIG4_SC;
  BY TIMEPD;
RUN;
PROC SORT DATA=FIG4_A;
  BY TIMEPD;
RUN;
/*
DATA FIG4_SC(DROP=ASCORE);
  MERGE FIG4_SC
    FIG4_A(RENAME=(SCORE=ASCORE));
  BY TIMEPD;
  SCORE=SCORE-ASCORE;
RUN;
*/
DATA FIG4;
  SET FIG4_BE FIG4_SC;
  RETAIN BSCORE;
  IF REGCAT = 'Benchmark' THEN DO;
    ROW = 1;
    BSCORE=SCORE;
  END;
  ELSE IF TIMEPD = "%YEARP2." THEN DO;
    ROW = 2;
    * SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "%YEARP1." THEN DO;
    ROW = 3;
    * SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "%YEAR." THEN DO;
    ROW = 4;
    * SCORE=BSCORE+SCORE;
  END;

  COL2 = SCORE / 100;
  COL3 = SIG;
RUN;

PROC SORT;
  BY ROW;
RUN;
*TITLE2 'FIGURE 4';
*PROC PRINT;
RUN;

```

```

*****
* DDE LINK (EXCEL file has to be open )
*****;

FILENAME TBL DDE "EXCEL|RATINGS!R18C14:R21C15";

DATA _NULL_;
  SET FIG4;
  FILE TBL NOTAB LRECL=200;
  PUT COL2 '09'X COL3;
RUN;

*****
* FIGURE 5: Access Composites
*****;
TITLE2 'Figure 5: Access Composites';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("%AREA", "Benchmark")
    AND BENEFIT IN ('Getting Needed Care', 'Getting Care Quickly')
    AND BENTYPE='Composite' & TIMEPD IN ("%YEARP2.", "%YEARP1.", "%YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG5_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT IN ('Getting Needed Care', 'Getting Care Quickly')
    AND BENTYPE='Composite' & TIMEPD = "%YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG5_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG5_SC FIG5_A(KEEP=SCORE TIMEPD BENEFIT);
  SET FIG5_SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG5_A;
  ELSE OUTPUT FIG5_SC;
RUN;

/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG5;
  SET FIG5_SC;

KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;

PROC SORT DATA=FIG5_SC;
  BY BENEFIT TIMEPD;
RUN;
PROC SORT DATA=FIG5_A;
  BY BENEFIT TIMEPD;
RUN;
/*DATA FIG5_SC(DROP=ASCORE);
  MERGE FIG5_SC
    FIG5_A(RENAME=(SCORE=ASCORE));
  BY BENEFIT TIMEPD;
  SCORE=SCORE-ASCORE;
RUN;*/
PROC SORT DATA=FIG5_BE;
  BY BENEFIT;
RUN;

DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
  COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
  COL4(DROP=SCORE RENAME=(SCORE1=COL4))
  COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
  COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
  COL7(KEEP=ROW SIG RENAME=(SIG=COL7));
SET FIG5_BE FIG5_SC ; BY BENEFIT;
RETAIN BSCORE;
IF REGCAT = 'Benchmark' THEN DO;
  ROW = 1;
  BSCORE=SCORE;
  SCORE1=SCORE;

```

```

END;
ELSE IF TIMEPD = "&YEARP2." THEN DO;
    ROW = 2;
*   SCORE=BSCORE+SCORE;
    SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&YEARP1." THEN DO;
    ROW = 3;
*   SCORE=BSCORE+SCORE;
    SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&YEAR." THEN DO;
    ROW = 4;
*   SCORE=BSCORE+SCORE;
    SCORE1=SCORE;
END;

IF (BENEFIT = 'Getting Needed Care' AND REGCAT NE 'Benchmark') THEN OUTPUT COL2 COL6;
IF (BENEFIT = 'Getting Needed Care' AND REGCAT = 'Benchmark') THEN OUTPUT COL3;
IF (BENEFIT = 'Getting Care Quickly' AND REGCAT NE 'Benchmark') THEN OUTPUT COL4 COL7;
IF (BENEFIT = 'Getting Care Quickly' AND REGCAT = 'Benchmark') THEN OUTPUT COL5;

RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 04/07/2006*/

DATA FIG5A;
    MERGE COL2 COL6;
    BY ROW;
RUN;

DATA FIG5B;
    MERGE COL4 COL7;
    BY ROW;
RUN;

DATA FIG5AB;
    SET FIG5A FIG5B;
    BY ROW;
RUN;

DATA FIG5;
    MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
    BY ROW;
RUN;
*TITLE2 'ACCESS COMPOSITES';
*PROC PRINT;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C2:R21C2";

DATA _NULL_;
    SET FIG5;
    FILE TBL NOTAB LRECL=200;
    PUT COL2;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C3:R18C3";

DATA _NULL_;

```



```

SET FIG5;
FILE TBL NOTAB LRECL=200;
PUT COL3;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C4:R21C4";

DATA _NULL_;
SET FIG5;
FILE TBL NOTAB LRECL=200;
PUT COL4;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C5:R18C5";

DATA _NULL_;
SET FIG5;
FILE TBL NOTAB LRECL=200;
PUT COL5;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R23C2:R26C4";

DATA _NULL_;
SET FIG5;
FILE TBL NOTAB LRECL=200;
PUT COL6 '09'X '09'X COL7;
RUN;

*****
* FIGURE 6: Office Composites
*****;
TITLE2 'Figure 6: Office Composites';
PROC FREQ NOPRINT DATA=TREND_A;
WHERE MAJGRP = 'Prime Enrollees'
AND REGCAT in ("&AREA","Benchmark")
AND BENEFIT IN ('How Well Doctors Communicate')
AND BENTYPE="Composite" & TIMEPD
IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG6_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
WHERE MAJGRP = 'Prime Enrollees'
AND REGCAT = 'Benchmark'
AND BENEFIT IN ('How Well Doctors Communicate')
AND BENTYPE="Composite" & TIMEPD = "&YEAR.";
TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG6_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG6_SC FIG6_A(KEEP=SCORE TIMEPD BENEFIT);
SET FIG6_SC;
IF REGCAT='Benchmark' THEN OUTPUT FIG6_A;
ELSE OUTPUT FIG6_SC;
RUN;

/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG6;
SET FIG6_SC;

KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;

PROC SORT DATA=FIG6_SC;
BY BENEFIT TIMEPD;
RUN;
PROC SORT DATA=FIG6_A;
BY BENEFIT TIMEPD;
RUN;
/*DATA FIG6_SC(DROP=ASCORE);
MERGE FIG6_SC
FIG6_A(RENAME=(SCORE=ASCORE));
BY BENEFIT TIMEPD;
SCORE=SCORE-ASCORE;
RUN;*/

```

```

PROC SORT DATA=FIG6_BE;
  BY BENEFIT;
RUN;

DATA COL4 (DROP=SCORE RENAME=(SCORE1=COL4))
  COL5 (KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
  COL7 (KEEP=ROW SIG RENAME=(SIG=COL7));
  SET FIG6_BE FIG6_SC ; BY BENEFIT;
  RETAIN BSCORE;
  IF REGCAT = 'Benchmark' THEN DO;
    ROW = 1;
    BSCORE=SCORE;
    SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP2." THEN DO;
    ROW = 2;
  *   SCORE=BSCORE+SCORE;
    SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP1." THEN DO;
    ROW = 3;
  *   SCORE=BSCORE+SCORE;
    SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&YEAR." THEN DO;
    ROW = 4;
  *   SCORE=BSCORE+SCORE;
    SCORE1=SCORE;
  END;

  IF (BENEFIT = 'How Well Doctors Communicate' AND REGCAT NE 'Benchmark') THEN OUTPUT COL4
COL7;
  IF (BENEFIT = 'How Well Doctors Communicate' AND REGCAT = 'Benchmark') THEN OUTPUT COL5;

RUN;

PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;

PROC SORT DATA=COL7; BY ROW; RUN;

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 04/07/2006*/

DATA FIG6B;
  MERGE COL4 COL7;
  BY ROW;
RUN;

DATA FIG6AB;
  SET FIG6B;
  BY ROW;
RUN;

DATA FIG6;
  MERGE COL4(KEEP=ROW COL4) COL5 COL7;
  BY ROW;
RUN;
*TITLE2 'OFFICE COMPOSITES';
*PROC PRINT;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C8:R21C8";

DATA _NULL_;
  SET FIG6;
  FILE TBL NOTAB LRECL=200;
  PUT COL4;

```

```

RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C9:R18C9";

DATA _NULL_;
  SET FIG6;
  FILE TBL NOTAB LRECL=200;
  PUT COL5;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R23C8:R26C8";

DATA _NULL_;
  SET FIG6;
  FILE TBL NOTAB LRECL=200;
  PUT COL7;
RUN;

*****
* FIGURE 7: Claims/Service Composites
*****
TITLE2 'Figure 7: Claims/Service Composites';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA", "Benchmark")
    AND BENEFIT IN ('Customer Service', 'Claims Processing')
    AND BENTYPE ="Composite" & TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG7_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT IN ('Customer Service', 'Claims Processing')
    AND BENTYPE ="Composite" & TIMEPD= "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG7_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG7_SC FIG7_A(KEEP=SCORE TIMEPD BENEFIT);
  SET FIG7_SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG7_A;
  ELSE OUTPUT FIG7_SC;
RUN;

/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG7;
  SET FIG7_SC;

KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;

PROC SORT DATA=FIG7_SC;
  BY BENEFIT TIMEPD;
RUN;
PROC SORT DATA=FIG7_A;
  BY BENEFIT TIMEPD;
RUN;
/*DATA FIG7_SC(DROP=ASCORE);
  MERGE FIG7_SC
    FIG7_A(RENAME=(SCORE=ASCORE));
  BY BENEFIT TIMEPD;
  SCORE=SCORE-ASCORE;
RUN;*/
PROC SORT DATA=FIG7_BE;
  BY BENEFIT;
RUN;

DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
  COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
  COL4(DROP=SCORE RENAME=(SCORE1=COL4))
  COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
  COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
  COL7(KEEP=ROW SIG RENAME=(SIG=COL7));

```

```

SET FIG7_BE FIG7_SC ; BY BENEFIT;
RETAIN BSCORE;
IF REGCAT = 'Benchmark' THEN DO;
  ROW = 1;
  BSCORE=SCORE;
  SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&YEARP2." THEN DO;
  ROW = 2;
  * SCORE=BSCORE+SCORE;
  SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&YEARP1." THEN DO;
  ROW = 3;
  * SCORE=BSCORE+SCORE;
  SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&YEAR." THEN DO;
  ROW = 4;
  * SCORE=BSCORE+SCORE;
  SCORE1=SCORE;
END;

IF (BENEFIT = 'Customer Service' AND REGCAT NE 'Benchmark') THEN OUTPUT COL2 COL6;
IF (BENEFIT = 'Customer Service' AND REGCAT = 'Benchmark') THEN OUTPUT COL3;
IF (BENEFIT = 'Claims Processing' AND REGCAT NE 'Benchmark') THEN OUTPUT COL4 COL7;
IF (BENEFIT = 'Claims Processing' AND REGCAT = 'Benchmark') THEN OUTPUT COL5;

RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 04/07/2006*/

DATA FIG7A;
  MERGE COL2 COL6;
  BY ROW;
RUN;

DATA FIG7B;
  MERGE COL4 COL7;
  BY ROW;
RUN;

DATA FIG7AB;
  SET FIG7A FIG7B;
  BY ROW;
RUN;

DATA FIG7;
  MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
  BY ROW;
RUN;
*TITLE2 'CLAIMS/SERVICE COMPOSITES';
*PROC PRINT;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C14:R21C14";

DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  PUT COL2;
RUN;

```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C15:R18C15";
```

```
DATA _NULL_;  
SET FIG7;  
FILE TBL NOTAB LRECL=200;  
PUT COL3;  
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C16:R21C16";
```

```
DATA _NULL_;  
SET FIG7;  
FILE TBL NOTAB LRECL=200;  
PUT COL4;  
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C17:R18C17";
```

```
DATA _NULL_;  
SET FIG7;  
FILE TBL NOTAB LRECL=200;  
PUT COL5;  
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R23C14:R26C16";
```

```
DATA _NULL_;  
SET FIG7;  
FILE TBL NOTAB LRECL=200;  
PUT COL6 '09'X '09'X COL7;  
RUN;
```

```
*****  
* TABLE 1: Preventive Care  
*****;
```

```
PROC FREQ NOPRINT DATA=TREND_A;  
WHERE MAJGRP = 'Prime Enrollees'  
AND REGCAT = "&AREA"  
AND TIMEPD = "&YEAR"  
AND BENEFIT IN ('Preventive Care','Healthy Behaviors')  
AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',  
'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit');  
TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*SCORE*SIG/ OUT=TAB1_03(DROP=COUNT PERCENT);  
TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*N_OBS/ OUT=TAB2_03(DROP=COUNT PERCENT);  
RUN;
```

```
PROC FREQ NOPRINT DATA=TREND_A;  
WHERE MAJGRP = 'Prime Enrollees'  
AND REGCAT = 'Benchmark'  
AND TIMEPD = "&YEAR"  
AND BENEFIT IN ('Preventive Care','Healthy Behaviors')  
AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',  
'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit');  
TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*SCORE*SIG/ OUT=TAB3_03(DROP=COUNT PERCENT);  
RUN;
```

```
PROC FREQ NOPRINT DATA=TREND_A;  
WHERE MAJGRP = 'Prime Enrollees'  
AND REGCAT = "&AREA"  
AND TIMEPD = "&YEARP1"  
AND BENEFIT IN ('Preventive Care','Healthy Behaviors')  
AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',  
'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit');  
TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*SCORE*N_OBS*N_WGT*SIG/ OUT=TAB1_02(DROP=COUNT PERCENT);  
RUN;
```

```
PROC FREQ NOPRINT DATA=TREND_A;  
WHERE MAJGRP = 'Prime Enrollees'  
AND REGCAT = "&AREA"  
AND TIMEPD = "&YEARP2"  
AND BENEFIT IN ('Preventive Care','Healthy Behaviors')  
AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',  
'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit');  
TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*SCORE*N_OBS*N_WGT*SIG/ OUT=TAB1_01(DROP=COUNT PERCENT);  
RUN;
```

```

RUN;

DATA TAB303;
  SET TAB3_03;
  IF REGCAT = 'Benchmark' THEN DO;
    ROW=5;
    IF BENTYPE='Mammography' THEN COL2=SCORE;
    ELSE IF BENTYPE='Pap Smear' THEN COL3=SCORE;
    ELSE IF BENTYPE='Hypertension' THEN COL4=SCORE;
    ELSE IF BENTYPE='Prenatal Care' THEN COL5=SCORE;
    ELSE IF BENTYPE='Percent Not Obese' THEN COL6=SCORE;
    ELSE IF BENTYPE = 'Non-Smoking Rate' THEN COL7=SCORE;
    ELSE IF BENTYPE = 'Counselled To Quit' THEN COL8=SCORE;
  END;
PROC SORT;
  BY ROW;
RUN;

DATA TAB203;
  SET TAB2_03;
  ROW=4;
  IF MAJGRP='Prime Enrollees';
  IF BENTYPE='Mammography' THEN COL2=N_OBS;
  ELSE IF BENTYPE='Pap Smear' THEN COL3=N_OBS;
  ELSE IF BENTYPE='Hypertension' THEN COL4=N_OBS;
  ELSE IF BENTYPE='Prenatal Care' THEN COL5=N_OBS;
  ELSE IF BENTYPE='Percent Not Obese' THEN COL6=N_OBS;
  ELSE IF BENTYPE = 'Non-Smoking Rate' THEN COL7=N_OBS;
  ELSE IF BENTYPE = 'Counselled To Quit' THEN COL8=N_OBS;
PROC SORT;
  BY ROW;
RUN;

DATA TAB103;
  SET TAB1_03;
  ROW=3;
  IF BENTYPE='Mammography' THEN DO;
    COL2=SCORE;
    COL9=SIG;
  END;
  ELSE IF BENTYPE='Pap Smear' THEN DO;
    COL3=SCORE;
    COL10=SIG;
  END;
  ELSE IF BENTYPE='Hypertension' THEN DO;
    COL4=SCORE;
    COL11=SIG;
  END;
  ELSE IF BENTYPE='Prenatal Care' THEN DO;
    COL5=SCORE;
    COL12=SIG;
  END;
  ELSE IF BENTYPE='Percent Not Obese' THEN DO;
    COL6=SCORE;
    COL13=SIG;
  END;
  ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
    COL7=SCORE;
    COL14=SIG;
  END;
  ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
    COL8=SCORE;
    COL15=SIG;
  END;
  END;

  PROC SORT;
  BY ROW;
RUN;

DATA TAB101;
  SET TAB1_01;
  ROW=1;
  IF BENTYPE='Mammography' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL2=.;
  ELSE DO;
    COL2=SCORE;

```

```

        COL9=SIG;
    END;
END;
ELSE IF BENTYPE='Pap Smear' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL3=.;
    ELSE DO;
        COL3=SCORE;
        COL10=SIG;
    END;
END;
ELSE IF BENTYPE='Hypertension' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL4=.;
    ELSE DO;
        COL4=SCORE;
        COL11=SIG;
    END;
END;
ELSE IF BENTYPE='Prenatal Care' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL5=.;
    ELSE DO;
        COL5=SCORE;
        COL12=SIG;
    END;
END;
ELSE IF BENTYPE='Percent Not Obese' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL6=.;
    ELSE DO;
        COL6=SCORE;
        COL13=SIG;
    END;
END;
ELSE IF BENTYPE='Non-Smoking Rate' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL7=.;
    ELSE DO;
        COL7=SCORE;
        COL14=SIG;
    END;
END;
ELSE IF BENTYPE='Counselled To Quit' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL8=.;
    ELSE DO;
        COL8=SCORE;
        COL15=SIG;
    END;
END;
END;

PROC SORT;
    BY ROW;
RUN;
DATA TAB102;
    SET TAB1_02;
    ROW=2;
    IF BENTYPE='Mammography' THEN DO;
        IF (N_WGT<200 OR N_OBS<30) THEN COL2=.;
        ELSE DO;
            COL2=SCORE;
            COL9=SIG;
        END;
    END;
ELSE IF BENTYPE='Pap Smear' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL3=.;
    ELSE DO;
        COL3=SCORE;
        COL10=SIG;
    END;
END;
ELSE IF BENTYPE='Hypertension' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL4=.;
    ELSE DO;
        COL4=SCORE;
        COL11=SIG;
    END;
END;
ELSE IF BENTYPE='Prenatal Care' THEN DO;

```

```

        IF (N_WGT<200 OR N_OBS<30) THEN COL5=.;
        ELSE DO;
            COL5=SCORE;
            COL12=SIG;
        END;
    END;
ELSE IF BENTYPE='Percent Not Obese' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL6=.;
    ELSE DO;
        COL6=SCORE;
        COL13=SIG;
    END;
END;
ELSE IF BENTYPE='Non-Smoking Rate' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL7=.;
    ELSE DO;
        COL7=SCORE;
        COL14=SIG;
    END;
END;
ELSE IF BENTYPE='Counselled To Quit' THEN DO;
    IF (N_WGT<200 OR N_OBS<30) THEN COL8=.;
    ELSE DO;
        COL8=SCORE;
        COL15=SIG;
    END;
END;
PROC SORT;
    BY ROW;
RUN;

DATA TAB1;
    MERGE TAB101 TAB102 TAB103 TAB203 TAB303;
    BY ROW;
RUN;
DATA COL2(DROP=COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL3(DROP=COL2 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL4(DROP=COL2 COL3 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL5(DROP=COL2 COL3 COL4 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL6(DROP=COL2 COL3 COL4 COL5 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL7(DROP=COL2 COL3 COL4 COL5 COL6 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL8(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL9(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL10 COL11 COL12 COL13 COL14 COL15)
    COL10(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL11 COL12 COL13 COL14 COL15)
    COL11(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL12 COL13 COL14 COL15)
    COL12(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL13 COL14 COL15)
    COL13(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL14 COL15)
    COL14(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL15)
    COL15(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14)
;
SET TAB1;

    IF COL2 NE . THEN OUTPUT COL2;
    IF COL3 NE . THEN OUTPUT COL3;
    IF COL4 NE . THEN OUTPUT COL4;
    IF COL5 NE . THEN OUTPUT COL5;
    IF COL6 NE . THEN OUTPUT COL6;
    IF COL7 NE . THEN OUTPUT COL7;
    IF COL8 NE . THEN OUTPUT COL8;
    IF COL9 NE . THEN OUTPUT COL9;
    IF COL10 NE . THEN OUTPUT COL10;
    IF COL11 NE . THEN OUTPUT COL11;
    IF COL12 NE . THEN OUTPUT COL12;
    IF COL13 NE . THEN OUTPUT COL13;
    IF COL14 NE . THEN OUTPUT COL14;
    IF COL15 NE . THEN OUTPUT COL15;
RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

```



```

PROC SORT DATA=COL8; BY ROW; RUN;
PROC SORT DATA=COL9; BY ROW; RUN;
PROC SORT DATA=COL10; BY ROW; RUN;
PROC SORT DATA=COL11; BY ROW; RUN;
PROC SORT DATA=COL12; BY ROW; RUN;
PROC SORT DATA=COL13; BY ROW; RUN;
PROC SORT DATA=COL14; BY ROW; RUN;
PROC SORT DATA=COL15; BY ROW; RUN;

DATA ALLROWS;
  LENGTH ROW 8.;
  DO ROW = 1 TO 5;
    OUTPUT;
  END;
RUN;

PROC SORT DATA=ALLROWS; BY ROW; RUN;

DATA TABLE1;
  MERGE COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11
        COL12 COL13 COL14 COL15 ALLROWS;
  BY ROW;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;
FILENAME TBL DDE "EXCEL|TABLES!R4C9:R8C22";

DATA _NULL_;
  SET TABLE1;
  FILE TBL NOTAB LRECL=200;
  IF ROW=5 THEN DO;
    PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X '-' '09'X COL9 '09'X
COL10
    '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END;
  ELSE DO;
    PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X COL8 '09'X COL9 '09'X
COL10
    '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END;
RUN;

/*Run Excel macro signif, May 9 2006, LLU*/

options noxsync;
*-- Specify XL filename ;

*%let excelf = &NAME..XLS ;

*-- Specify XL macro name ;
%let macron = signif ;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
  FILE CMDS;
  DDECommand = '[Run(" || "&macron" || ',0)]' ;
  put DDECommand ;

RUN;

*FILENAME CMDS DDE "EXCEL|SYSTEM";
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[CLOSE]';
RUN;

```

```

*****
      COMPARE SCORES AND SIG B/T CONSUMER WATCH AND REPORT CARDS.
      SET 0.015 DIFFERENCE AS THRESHOLD.
      LUCY LU 04/04/2006
*****;

```

```

PROC SORT DATA=FIG1(DROP=SCORE);          *FROM CONSUMER WATCH;
BY BENEFIT TIMEPD REGCAT;

```

```

PROC SORT DATA=FIG2(DROP=SCORE);
BY BENEFIT TIMEPD REGCAT;

```

```

PROC SORT DATA=FIG3(DROP=SCORE);
BY BENEFIT TIMEPD REGCAT;

```

```

PROC SORT DATA=FIG4(DROP=SCORE);
BY BENEFIT TIMEPD REGCAT;

```

```

PROC SORT DATA=FIG5AB OUT=FIG5;
BY BENEFIT TIMEPD REGCAT;

```

```

PROC SORT DATA=FIG6AB OUT=FIG6;
BY BENEFIT TIMEPD REGCAT;

```

```

PROC SORT DATA=FIG7AB OUT=FIG7;
BY BENEFIT TIMEPD REGCAT;
RUN;

```

```

%MACRO COMPARE(I=, TITL=);

```

```

PROC SORT DATA=CFIG&I;                  *FROM REPROT CARDS;
BY BENEFIT TIMEPD REGCAT;
RUN;

```

```

DATA COMBFIG&I;
  MERGE CFIG&I.(IN=F1) FIG&I(IN=F2);
BY BENEFIT TIMEPD REGCAT;

```

```

IF F1 AND F2;

```

```

FIG = &I;

```

```

IF FIG <=4 THEN DO;
  SCORE2=COL2*100;
  SIG2=COL3;
END;

```

```

ELSE IF FIG >4 THEN DO;
  IF COL2 >= 0 THEN SCORE2=COL2;
  ELSE IF COL4 >0 THEN SCORE2=COL4;

```

```

  IF COL6 >= .Z THEN SIG2=COL6;
  ELSE IF COL7>=.Z THEN SIG2=COL7;
END;

```

```

  SCOREDIF=SCORE2-SCORE;
  SIGDIF=SIG2-SIG;

```

```

IF ABS(SCOREDIF)>.015 OR SIGDIF>0 THEN FLAG=1;
ELSE FLAG=0;

```

```

KEEP BENEFIT TIMEPD REGCAT SCORE SIG SCORE2 SIG2 SCOREDIF SIGDIF FLAG;

```

```

LABEL

```

```

FLAG="DIFF IN SCORES >0.015 OR/AND DIFF IN SIG >0"
SCORE="SCORES FROM CONUS"
SCORE2="SCORES FROM CONSUMER WATCH"
SIG="SIG FROM CONUS"
SIG2="SIG FROM CONSUMER WATCH"
;

TITLE " ";
TITLE2 "*****";
TITLE3 "&YEAR. CATCHMENT CONSUMER WATCH, &AREA ";

PROC PRINT L NOOBS;
TITLE4 "Compare &TITL.";
RUN;

%MEND COMPARE;

%COMPARE(I=1, TITL=Health Care Rating);
%COMPARE(I=2, TITL=Health Plan Rating);
%COMPARE(I=3, TITL=Personal Provider Rating);
%COMPARE(I=4, TITL=Specialist Rating);

%COMPARE(I=5, TITL=Access composites);

%COMPARE(I=6, TITL=Office composites);
%COMPARE(I=7, TITL=Claims/Service composites);

%MEND RUNCW;

```

H.1.B CONSUMERWATCH\CONSUMERWATCH-C.SAS - RUN ANNUAL MTF TRICARE CONSUMER WATCH REPORTS.

```
*****
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-C.SAS
* PURPOSE: Run Catchment Consumer Watch
* AUTHOR : NATALIE JUSTH
* DATE : 2/12/02
* UPDATED: 2/5/03
* UPDATED: 11/17/03
* UPDATED: 03/17/05 BY LUCY LU.
* UPDATED: 01/02/06 BY LUCY LU.
* UPDATED: 11/22/06 BY LUCY LU.
* UPDATED: 11/16/07 BY LUCY LU.
* MODIFIED: 11/23/2010 BY LUCY LU. WITH IMPROVED PROGRAMMING, WE
* COMBINED ALL REGIONAL PROGRAMS INTO A SINGLE RUN.
*****;
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 NOCENTER SOURCE2 NOFMterr SPOOL;

/*****/
/* TIME PERIOD MACROS */
/*****/
%LET YEAR = 2010;
%LET YEARP1 = 2009;
%LET YEARP2 = 2008;
%LET PATH = L:\2010\Programs\Consumerwatch;

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';

/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/

DATA TREND_A;
  SET INT.TREND_A(RENAME=(REGCAT=XREGCAT));

REGCAT=COMPRESS(XREGCAT, " ");
DROP XREGCAT;

RUN;

%INCLUDE "CONSUMERWATCH-CMACRO.INC";

/** MACRO TO RUN CATCHMENT LEVEL REPORTS BY REGION ***/

%MACRO RUNBYREG (REG=, /*Region as it appears in TREND_A */
                FOLDER= /*Regional folder name */
                );

  PROC FREQ DATA=TREND_A;
    TABLES REGION*REGCAT / LIST MISSING OUT=TEMP;
    WHERE (REGION=&REG AND REGCAT NE &REG) OR REGION='USA MHS';
  RUN;

  DATA TEMP;
    SET TEMP;

    /* DO NOT PRODUCE CONSUMER WATCH REPORTS FOR OUT OF CATCHMENT AREAS */

    IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;

  RUN;

  DATA _NULL_;
    SET TEMP END=FINISHED;

    LENGTH CMPRS $39;
    LENGTH NUM $4;
```

```

CMPRS=COMPRESS(REGCAT) || ".xls";
NUM=COMPRESS(PUT(_N_,4.));

CALL SYMPUT("REGCAT" || NUM,REGCAT);
CALL SYMPUT("CMPRS" || NUM,CMPRS);

IF FINISHED THEN DO;
    CALL SYMPUT("N",_N_);
END;
RUN;

%MACRO PROCESS;
    %DO I=1 %TO &N;
        %RUNCW(AREA=&&REGCAT&I,NAME=&&CMPRS&I,FOLDER=&FOLDER);
    %END;
%MEND PROCESS;

%PROCESS;

%MEND RUNBYREG;

%RUNBYREG(REG="USA MHS",FOLDER=USAMHS);

%RUNBYREG(REG="North Air Force",FOLDER=North);
%RUNBYREG(REG="North Army",FOLDER=North);
%RUNBYREG(REG="North Navy",FOLDER=North);
%RUNBYREG(REG="North Other",FOLDER=North);

%RUNBYREG(REG="South Air Force",FOLDER=South);
%RUNBYREG(REG="South Army",FOLDER=South);
%RUNBYREG(REG="South Navy",FOLDER=South);
%RUNBYREG(REG="South Other",FOLDER=South);

%RUNBYREG(REG="West Air Force",FOLDER=West);
%RUNBYREG(REG="West Army",FOLDER=West);
%RUNBYREG(REG="West Navy",FOLDER=West);
%RUNBYREG(REG="West Other",FOLDER=West);

%RUNBYREG(REG="Overseas Pacific",FOLDER=Overseas);
%RUNBYREG(REG="Overseas Europe",FOLDER=Overseas);
%RUNBYREG(REG="Overseas Latin America",FOLDER=Overseas);

```

H.2.A CONSUMERWATCH\LISTOFMTF-NORTH.SAS - PRODUCE THE LIST OF MTF TO RUN AUTOMATED CONSUMER WATCH REPORT IN WORD-NORTH.

```

*****
* PROJECT: 6663-420
* PROGRAM: ListOfMTF-xxxxx.SAS
* PURPOSE: Produce the list of MTF to run automated consumer watch report in Word
* AUTHOR : Lucy Lu
* DATE   : 11/30/09
* NOTE   : Run listOfMTF-xxxxx.Sas first to copy the list of MTF in .lst file.
*****;

OPTIONS PS=120 LS=256 NOCENTER /*MPRINT*/ NOFMterr SPOOL ;
LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';

%LET REG=("North Air Force","North Army","North Navy","North Other");
%LET FOLDER=North;

/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND_A;
    SET INT.TREND_A(RENAME=(REGCAT=XREGCAT) KEEP=REGCAT REGION);

    REGCAT=COMPRESS(XREGCAT,"'");

CMPRS=COMPRESS(REGCAT)||".xlsb";
CMPRS2=COMPRESS(REGCAT);

IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;

LENGTH MTFLIST $200;
MTFLIST=%RUNWD' || '(' || 'AREA=' || TRIM(LEFT(REGCAT)) || ', ' || 'NAME='
        || TRIM(LEFT(CMPRS)) || ', ' || 'NAME2=' || TRIM(LEFT(CMPRS2)) || ', ' || 'FOLDER='
        || '&FOLDER' || ')' || ';';

IF (REGION in &REG AND REGCAT not in &REG) THEN OUTPUT;

RUN;

PROC SORT DATA=TREND_A(KEEP=MTFLIST) OUT=MTFLIST NODUPKEY;
BY MTFLIST; RUN;

TITLE "AREA = &FOLDER";
PROC PRINT DATA=MTFLIST NOOBS;
RUN;

```

H.2.B CONSUMERWATCH\LISTOFMTF-OVERSEAS.SAS - PRODUCE THE LIST OF MTF TO RUN AUTOMATED CONSUMER WATCH REPORT IN WORD-OVERSEAS.

```

*****
* PROJECT: 6663-420
* PROGRAM: ListOfMTF.SAS
* PURPOSE: Produce the list of MTF to run automated consumer watch report in Word
* AUTHOR : Lucy Lu
* DATE   : 11/30/09
* NOTE   : Run listOfMTF-South.Sas first to copy the list of MTF in .lst file.
*****;

OPTIONS PS=120 LS=256 NOCENTER /*MPRINT*/ NOFMterr SPOOL ;
LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';

%LET REG=("Overseas Europe","Overseas Pacific");
%LET FOLDER=Overseas;

/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND_A;
    SET INT.TREND_A(RENAME=(REGCAT=XREGCAT) KEEP=REGCAT REGION);

    REGCAT=COMPRESS(XREGCAT,"'");

CMPRS=COMPRESS(REGCAT)||".xls";
CMPRS2=COMPRESS(REGCAT);

IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;

LENGTH MTFLIST $200;
MTFLIST='%RUNWD' || '(' || 'AREA=' || TRIM(LEFT(REGCAT)) || ', ' || 'NAME='
        || TRIM(LEFT(CMPRS)) || ', ' || 'NAME2=' || TRIM(LEFT(CMPRS2)) || ', ' || 'FOLDER='
        || "&FOLDER" || ')' || ';';

IF (REGION in &REG AND REGCAT not in &REG) THEN OUTPUT;

RUN;

PROC SORT DATA=TREND_A(KEEP=MTFLIST) OUT=MTFLIST NODUPKEY;
BY MTFLIST; RUN;

TITLE "AREA = &FOLDER";
PROC PRINT DATA=MTFLIST NOOBS;
RUN;

```

H.2.C CONSUMERWATCH\LISTOFMTF-SOUTH.SAS - PRODUCE THE LIST OF MTF TO RUN AUTOMATED CONSUMER WATCH REPORT IN WORD-SOUTH.

```

*****
* PROJECT: 6663-420
* PROGRAM: ListOfMTF.SAS
* PURPOSE: Produce the list of MTF to run automated consumer watch report in Word
* AUTHOR : Lucy Lu
* DATE   : 11/30/09
*****;

OPTIONS PS=120 LS=256 NOCENTER /*MPRINT*/ NOFMTERR SPOOL ;
LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';

%LET REG="South Air Force","South Army","South Navy","South Other";
%LET FOLDER=South;

/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND_A;
    SET INT.TREND_A(RENAME=(REGCAT=XREGCAT) KEEP=REGCAT REGION);

    REGCAT=COMPRESS(XREGCAT,"'");

CMPRS=COMPRESS(REGCAT)||".xls";
CMPRS2=COMPRESS(REGCAT);
**RUNWD(AREA=&&REGCAT&I,NAME=&&CMPRS&I,NAME2=&&CMPRS2&I,FOLDER=&FOLDER);

IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;

LENGTH MTFLIST $400;
MTFLIST='%RUNWD' || '(' || 'AREA=' || TRIM(LEFT(REGCAT)) || ', ' || 'NAME='
        || TRIM(LEFT(CMPRS)) || ', ' || 'NAME2=' || TRIM(LEFT(CMPRS2)) || ', ' || 'FOLDER='
        || "&FOLDER" || ')' || ';';

IF (REGION in (&REG) AND REGCAT NOT in (&REG)) THEN OUTPUT;

RUN;

PROC SORT DATA=TREND_A(KEEP=MTFLIST) OUT=MTFLIST NODUPKEY;
BY MTFLIST; RUN;

TITLE "AREA = &FOLDER";
PROC PRINT DATA=MTFLIST NOOBS;
RUN;

```


H.2.D CONSUMERWATCH\LISTOFMTF-WEST.SAS - PRODUCE THE LIST OF MTF TO RUN AUTOMATED CONSUMER WATCH REPORT IN WORD-WEST.

```
*****
* PROJECT: 6663-420
* PROGRAM: ListOfMTF-xxxxx.SAS
* PURPOSE: Produce the list of MTF to run automated consumer watch report in Word
* AUTHOR : Lucy Lu
* DATE : 11/30/09
* NOTE : Run listOfMTF-xxxxx.Sas first to copy the list of MTF in .lst file.
*****;
```

```
OPTIONS PS=120 LS=256 NOCENTER /*MPRINT*/ NOFMterr SPOOL ;
LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
```

```
%LET REG=("West Air Force","West Army","West Navy","West Other");
%LET FOLDER=West;
```

```
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND_A;
```

```
SET INT.TREND_A(RENAME=(REGCAT=XREGCAT) KEEP=REGCAT REGION);
```

```
REGCAT=COMPRESS(XREGCAT,"");
```

```
CMPRS=COMPRESS(REGCAT)||".xls";
```

```
CMPRS2=COMPRESS(REGCAT);
```

```
IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;
```

```
LENGTH MTFLIST $200;
```

```
MTFLIST='%RUNWD' || '(' || 'AREA=' || TRIM(LEFT(REGCAT)) || ', ' || 'NAME='
|| TRIM(LEFT(CMPRS)) || ', ' || 'NAME2=' || TRIM(LEFT(CMPRS2)) || ', ' || 'FOLDER='
|| "&FOLDER" || ')' || ';';
```

```
IF (REGION in &REG AND REGCAT not in &REG) THEN OUTPUT;
```

```
RUN;
```

```
PROC SORT DATA=TREND_A(KEEP=MTFLIST) OUT=MTFLIST NODUPKEY;
BY MTFLIST; RUN;
```

```
TITLE "AREA = &FOLDER";
PROC PRINT DATA=MTFLIST NOOBS;
RUN;
```

H.3.A CONSUMERWATCH\CONSUMERWATCH-CMACRO-WORD.INC - PRODUCE NUMBERS FOR ANNUAL CONSUMER WATCH REPORTS.

```

*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-Cmarco-WORD.INC
*
* AUTHOR : LUCY LU
* PURPOSE: Automate the copy and paste process, update the year, region,
*          response rate and sample size for annual catchment Consumer
*          Watch report.
*
* DATE   : 10/29/2009
*
* OUTPUT : WORD DOCUMENTS
*****;

OPTIONS NOXWAIT SPOOL NOXSYNC;

%MACRO RUNWD(AREA=,NAME=,NAME2=,FOLDER=);
*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME
  Wait until Excel ready;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;

  LENGTH FID RC START STOP TIME 8;
  FID = FOPEN('CMDS' , 'S');
  IF (FID LE 0) THEN DO;
    RC = SYSTEM('START EXCEL');
    START = DATETIME();
    STOP = START + 10;
    DO WHILE (FID LE 0);
      FID = FOPEN('CMDS' , 'S');
      TIME = DATETIME();
      IF (TIME GE STOP) THEN FID = 1;
    END;
  END;
  RC = FCLOSE(FID);
RUN;

%MACRO SETUP;
  DATA TEST _NULL_;

  SINGLE=" ";
  DOUBLE=" ";

  LENGTH OPENXLS OPENWRD SAVEWRD $120;
  *11/28/2010, temporary fix for xls.xlsb problem to meet he dealine. Need
  perm fix in Excel pmg;
  OPENXLS=SINGLE||"[OPEN("||DOUBLE||"&PATH.\&FOLDER.\&NAME2.xls.xlsb"||DOUBLE||")]"||SINGLE;
  OPENWRD=SINGLE||"[FileOpen.Name="||DOUBLE||"&PATH.\templateAnnual.doc"||DOUBLE||"]"||SINGLE;
  SAVEWRD=SINGLE||"[FileSaveAs.Name="||DOUBLE||"&PATH.\&FOLDER.\&NAME2.DOC"||DOUBLE||"]"||SINGLE;

  CALL SYMPUT ("OPENXLS",TRIM(OPENXLS));
  CALL SYMPUT ("OPENWRD",TRIM(OPENWRD));
  CALL SYMPUT ("SAVEWRD",TRIM(SAVEWRD));

RUN;

%MEND SETUP;
%SETUP;

DATA _NULL_;
  FILE CMDS;
  PUT &OPENXLS;
  X=SLEEP(2);
  PUT '[app.minimize()]';
RUN;

```

```

*7/23/2010 LLU, Wait until Word ready;
FILENAME CMNDS DDE "WINWORD|SYSTEM";

DATA _NULL_;
LENGTH FID RC START STOP TIME 8;
FID=FOPEN('CMNDS','S');
IF (FID LE 0) THEN DO;
  RC=SYSTEM('START WINWORD');
  START=DATETIME();
  STOP=START+10;
  DO WHILE (FID LE 0);
    FID=FOPEN('CMNDS','S');
    TIME=DATETIME();
    IF (TIME GE STOP) THEN FID=1;
  END;
END;
RC=FCLOSE(FID);
RUN;

DATA _NULL_;
FILE CMNDS;
PUT &OPENWRD;
X=SLEEP(2);
PUT &SAVEWRD;
PUT '[APPMINIMIZE]';
RUN;

%MACRO COPYIT;
%DO I=1 %TO 8;

  %IF &I NE 7 %THEN %DO;
    %LET WDMACRO=NEWPASTE&I;
    %LET EXMACRO=COPY&I;

    FILENAME CMDS DDE "EXCEL|SYSTEM";

    DATA _NULL_;
      FILE CMDS;
      X=SLEEP(3);
      RUN;

    DATA _NULL_;
      FILE CMDS;
      DDECommand = '[Run(" | | "&exmacro" | | ',0)]' ;
      PUT DDEcommand ;

    RUN;
    FILENAME CMDS CLEAR;

    FILENAME CMNDS DDE 'WINWORD|SYSTEM';

    DATA _NULL_;
      X=SLEEP(3);
      RUN;

    DATA _NULL_;
      FILE CMNDS;
      put '[ToolsMacro .Name = " | "&wdmacro" ', .Run]';
      RUN;

    FILENAME CMNDS CLEAR;

    RUN;

  %END;
%END;
%MEND COPYIT;
%COPYIT;

```

```

/*
FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[QUIT]';
RUN; */

*READ THE SAMPLE SIZE AND RESPONSE RATE IN .OUT FILES
AND CREATE MACRO VARIABLES for Word document;
%MACRO RATE1 (DAT);
  DATA &DAT;

    INFILE "&RATEPATH.\&DAT..OUT" LRECL=9999 RECFM=V;
    INPUT LINEIN $100 @; DROP LINEIN;
    IF _N_ GE 7 THEN DO;
      INPUT
        @001 DOMAIN      $CHAR40.
        @141 FRR_UNWT    4.3
        @147 POP         $CHAR7.;
      ;
      OUTPUT;
    END;
  RUN;

*MS 2007 doesnt take comma7 format. This is hard code the comma into text;
DATA &DAT;
  SET &DAT;
  LENGTH POP_UNWT $10;
  POP1=SUBSTR(RIGHT(POP),1,1);
  POP2=SUBSTR(RIGHT(POP),2,3);
  POP3=SUBSTR(RIGHT(POP),5,3);
  POP_UNWT=CATX(' ',POP1,POP2,POP3);
RUN;

%MEND RATE1;

*%RATE1(TABLE02A);
%RATE1(XCATCH);

DATA ALLRATE;
  SET /*TABLE02A*/
    XCATCH
    ;

  DOMAIN=UPCASE(COMPRESS(DOMAIN," "));

  IF DOMAIN='' THEN DOMAIN="USAMHS";
  FRR_UNWT=FRR_UNWT*100;

  *PUT POP_UNWT= FRR_UNWT=;
  IF DOMAIN=UPCASE("&NAME2") THEN OUTPUT;

RUN;

%LET FORMAT=FORMAT1;

%LET MARK1=MTF1;
%LET MARK2=size;
%LET MARK3=rate;
%LET MARK4=MTF2;
%LET MARK5=YourSay;
%LET MARK6=MTF3;

DATA _NULL_;
  SET ALLRATE;

CALL SYMPUT ("TEXT1", "&AREA");
CALL SYMPUT ("TEXT2", COMPRESS(POP_UNWT));

```

```

CALL SYMPUT ("TEXT3", COMPRESS(FRR_UNWT));
CALL SYMPUT ("TEXT4", "&AREA");
CALL SYMPUT ("TEXT5", "&YOURSAY");
CALL SYMPUT ("TEXT6", "&AREA");

RUN;

FILENAME CMNDS DDE "WINWORD|SYSTEM";
DATA _NULL_;
  FILE CMNDS;
  *X=SLEEP(2);
  PUT '[AppMinimize]';
RUN;

DATA _NULL_;
  FILE CMNDS;
  *X=SLEEP(.2);
  put '[EditGoto.Destination="MTF1"]';
  put '[FormatFont.Font="Arial",.Points="20"]';
  PUT "&TEXT1";
RUN;

DATA _NULL_;
  FILE CMNDS;
  *X=SLEEP(.2);
  put '[EditGoto.Destination="SIZE"]';
  put '[FormatFont.Font="Arial",.Points="8"]';
  PUT "&TEXT2";
RUN;

DATA _NULL_;
  FILE CMNDS;
  *X=SLEEP(.2);
  put '[EditGoto.Destination="RATE"]';
  put '[FormatFont.Font="Arial",.Points="8"]';
  PUT "&TEXT3";
RUN;

DATA _NULL_;
  FILE CMNDS;
  *X=SLEEP(.2);
  put '[EditGoto.Destination="MTF2"]';
  put '[FormatFont.Font="Arial",.Points="8"]';
  PUT "&TEXT4";
RUN;

DATA _NULL_;
  FILE CMNDS;
  *X=SLEEP(.2);
  put '[EditGoto.Destination="YourSay"]';
  put '[FormatFont.Font="Times New Roman",.Points="11"]';
  PUT "&TEXT5";
RUN;

DATA _NULL_;
  FILE CMNDS;
  *X=SLEEP(.2);
  put '[EditGoto.Destination="MTF3"]';
  put '[FormatFont.Font="Arial",.Points="16"]';
  PUT "&TEXT6";
RUN;

/* The Triplet doesn't work for MS 2007/SAS 9. Comment out here;
%MACRO DOWORD;

%DO I= 1 %TO 6;      *LLU 2/15/08. Problem with Banner in Word. No change in banner this time;

FILENAME CMNDS DDE "WINWORD|&PATH.\&FOLDER.\&FOLDER..doc!&&MARK&I." NOTAB;

DATA _NULL_;
  FILE CMNDS;

  PUT "&&TEXT&I.";

```

```

RUN;

FILENAME CMNDS CLEAR;

%END;

%MEND;

%DOWORD;

FILENAME CMNDS DDE 'WINWORD|SYSTEM';
DATA _NULL_;
  FILE CMNDS;

  PUT '[ToolsMacro .Name = "' &FORMAT' "', .Run]';

RUN;
*/
*copy and paste figure 7--must do after changing subtitle on page 2;
%LET WDMACRO7=NEWPASTE7;
%LET EXMACRO7=COPY7;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
  FILE CMDS;
X=SLEEP(3);
RUN;

DATA _NULL_;
  FILE CMDS;
  DDECommand = '[Run("' || "&exmacro7" || '",0)]';
  PUT DDEcommand ;

RUN;
FILENAME CMDS CLEAR;

FILENAME CMNDS DDE 'WINWORD|SYSTEM';

DATA _NULL_;
  FILE CMNDS;
put '[ToolsMacro .Name = "' &wdmacro7" "', .Run]';
RUN;

FILENAME CMNDS CLEAR;

RUN;

DATA _NULL_;
X=SLEEP(.2);
RUN;

*savs as pdf;
%LET CMACRO=SaveAspdf;

FILENAME CMNDS DDE 'WINWORD|SYSTEM';
DATA _NULL_;
  FILE CMNDS;

PUT '[ToolsMacro .Name = "' &CMACRO" "', .Run]';
run;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
  FILE CMDS;
  *PUT '[SAVE]'; *no save for Excel;
  PUT '[CLOSE(FALSE)]';
  PUT '[QUIT]';
RUN;

```

```
/*The following code is reserved for future use;
FILENAME CMNDS DDE 'WINWORD|SYSTEM';

DATA _NULL_;
  FILE CMNDS;

  PUT '[fileSave] ';
  PUT '[FileClose 2] ';
RUN;*/

%MEND;
```

H.3.B CONSUMERWATCH\CONSUMERWATCH-WORD-CNORTH.SAS - RUN ANNUAL AUTOMATED WORD MTF TRICARE CONSUMER WATCH REPORTS-NORTH.

```
*****
PROJECT: 6663-420
PROGRAM: consumerwatch-word-CNOrth.sas
PURPOSE: Automatet the Consumer Watch Report
        Only be able to automate one Word product at a time, multiple file-open
        and File-save causes SAS to lock up with JAWs screen reader unless
        fixing the problem by downloading "Hot Fix" in SAS institute website.
AUTHOR : Lucy Lu
DATE   : 11/30/09
NOTE   : This is the second step to automnate the Consumer Watch report.
        1. step 1--run listOfMTF-xxxx.sas
        2. Step 2--copy the list of MTF in listOfMTF.lst file and run this macro.
*****;
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 MPRINT NOCENTER NOFMterr SPOOL;

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR = 2010;
%LET YEARP1 = 2009;
%LET YEARP2 = 2008;
%LET YOURSAY= MTF;

%LET PATH=L:\&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Response_Rate\xcatch;

/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/

%INCLUDE "CONSUMERWATCH-CMACRO-WORD.INC";

%RUNWD(AREA=375th Med Grp-Scott,NAME=375thMedGrp-Scott.xls,NAME2=375thMedGrp-Scott,FOLDER=North);
%RUNWD(AREA=NH Camp Lejeune,NAME=NHCampLejeune.xls,NAME2=NHCampLejeune,FOLDER=North);

/*
%RUNWD(AREA=NNMC Bethesda,NAME=NNMCBethesda.xls,NAME2=NNMCBethesda,FOLDER=North);
%RUNWD(AREA=Walter Reed AMC,NAME=WalterReedAMC.xls,NAME2=WalterReedAMC,FOLDER=North);
%RUNWD(AREA=305th Med Grp-McGuire,NAME=305thMedGrp-McGuire.xls,NAME2=305thMedGrp-McGuire,FOLDER=North);
%RUNWD(AREA=Womack AMC,NAME=WomackAMC.xls,NAME2=WomackAMC,FOLDER=North);
%RUNWD(AREA=Guthrie AHC,NAME=GuthrieAHC.xls,NAME2=GuthrieAHC,FOLDER=North);
%RUNWD(AREA=1st Med Grp-Langley,NAME=1stMedGrp-Langley.xls,NAME2=1stMedGrp-Langley,FOLDER=North);
%RUNWD(AREA=66th Med Grp-Hanscom,NAME=66thMedGrp-Hanscom.xls,NAME2=66thMedGrp-Hanscom,FOLDER=North);
%RUNWD(AREA=74th Med Grp-Wright-Patterson,NAME=74thMedGrp-Wright-Patterson.xls,NAME2=74thMedGrp-Wright-Patterson,FOLDER=North);
%RUNWD(AREA=89th Med Grp-Andrews,NAME=89thMedGrp-Andrews.xls,NAME2=89thMedGrp-Andrews,FOLDER=North);
%RUNWD(AREA=Blanchfield ACH,NAME=BlanchfieldACH.xls,NAME2=BlanchfieldACH,FOLDER=North);
%RUNWD(AREA=Dewitt ACH,NAME=DewittACH.xls,NAME2=DewittACH,FOLDER=North);
%RUNWD(AREA=Ireland ACH,NAME=IrelandACH.xls,NAME2=IrelandACH,FOLDER=North);
%RUNWD(AREA=Keller ACH,NAME=KellerACH.xls,NAME2=KellerACH,FOLDER=North);
%RUNWD(AREA=Kenner AHC,NAME=KennerAHC.xls,NAME2=KennerAHC,FOLDER=North);
%RUNWD(AREA=Kimbrough Amb Car Cen-Ft Meade,NAME=KimbroughAmbCarCen-FtMeade.xls,NAME2=KimbroughAmbCarCen-FtMeade,FOLDER=North);
%RUNWD(AREA=McDonald ACH,NAME=McDonaldACH.xls,NAME2=McDonaldACH,FOLDER=North);
%RUNWD(AREA=NACC Newport,NAME=NACCNewport.xls,NAME2=NACCNewport,FOLDER=North);
%RUNWD(AREA=NBHC Little Creek,NAME=NBHCLittleCreek.xls,NAME2=NBHCLittleCreek,FOLDER=North);
%RUNWD(AREA=NBHC Navsta Sewells,NAME=NBHCNavstaSewells.xls,NAME2=NBHCNavstaSewells,FOLDER=North);
%RUNWD(AREA=NBHC Oceana,NAME=NBHCOceana.xls,NAME2=NBHCOceana,FOLDER=North);

```



```
%RUNWD(AREA=NH Cherry Point,NAME=NHCherryPoint.xls,NAME2=NHCherryPoint,FOLDER=North);
%RUNWD(AREA=NH Great Lakes,NAME=NHGreatLakes.xls,NAME2=NHGreatLakes,FOLDER=North);
%RUNWD(AREA=NMCL Portsmouth,NAME=NMCLPortsmouth.xls,NAME2=NMCLPortsmouth,FOLDER=North);
%RUNWD(AREA=NMCL Annapolis,NAME=NMCLAnnapolis.xls,NAME2=NMCLAnnapolis,FOLDER=North);
%RUNWD(AREA=NMCL Patuxent River,NAME=NMCLPatuxentRiver.xls,NAME2=NMCLPatuxentRiver,FOLDER=North);
%RUNWD(AREA=NMCL Quantico,NAME=NMCLQuantico.xls,NAME2=NMCLQuantico,FOLDER=North);

/*---dont need pdf report---;
%RUNWD(AREA=North Region-Other,NAME=NorthRegion-Other.xls,NAME2=NorthRegion-Other,FOLDER=North);
```

H.3.C CONSUMERWATCH\CONSUMERWATCH-WORD-COVERSEAS.SAS - RUN ANNUAL AUTOMATED WORD MTF TRICARE CONSUMER WATCH REPORTS-OVERSEAS.

```

*****
PROJECT: 6663-420
PROGRAM: consumerwatch-word-Coverseas.sas
PURPOSE: Automatet the Consumer Watch Report
        Only be able to automate one Word product at a time, multiple file-open
        and File-save causes SAS to lock up with JAWs screen reader unless
        fixing the problem by downloading "Hot Fix" in SAS institute website.
AUTHOR : Lucy Lu
DATE   : 11/30/09
NOTE   : This is the second step to automnate the Consumer Watch report.
        1. step 1--run listOfMTF-xxxx.sas
        2. Step 2--copy the list of MTF in listOfMTF.lst file and run this macro.
*****;
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 MPRINT NOCENTER NOFMterr SPOOL;

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR = 2010;
%LET YEARP1 = 2009;
%LET YEARP2 = 2008;
%LET YOURSAY= MTF;

%LET PATH=L:\&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Response_Rate\xcatch;

/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/

%INCLUDE "consumerwatch-Cmacro-word.inc";
%RUNWD(AREA=18th Med Grp-Kadena AB,NAME=18thMedGrp-KadenaAB.xls,NAME2=18thMedGrp-
KadenaAB,FOLDER=Overseas);
%RUNWD(AREA=48th Med Grp-Lakenheath,NAME=48thMedGrp-Lakenheath.xls,NAME2=48thMedGrp-
Lakenheath,FOLDER=Overseas);

/*
%RUNWD(AREA=121st Gen Hosp-Seoul,NAME=121stGenHosp-Seoul.xls,NAME2=121stGenHosp-
Seoul,FOLDER=Overseas);
%RUNWD(AREA=31st Med Grp-Aviano,NAME=31stMedGrp-Aviano.xls,NAME2=31stMedGrp-
Aviano,FOLDER=Overseas);
%RUNWD(AREA=35th Med Grp-Misawa,NAME=35thMedGrp-Misawa.xls,NAME2=35thMedGrp-
Misawa,FOLDER=Overseas);
%RUNWD(AREA=374th Med Grp-Yokota AB,NAME=374thMedGrp-YokotaAB.xls,NAME2=374thMedGrp-
YokotaAB,FOLDER=Overseas);
%RUNWD(AREA=51st Med Grp-Osan AB,NAME=51stMedGrp-OsanAB.xls,NAME2=51stMedGrp-
OsanAB,FOLDER=Overseas);
%RUNWD(AREA=52nd Med Grp-Spangdahlem,NAME=52ndMedGrp-Spangdahlem.xls,NAME2=52ndMedGrp-
Spangdahlem,FOLDER=Overseas);
%RUNWD(AREA=86th Med Grp-Ramstein,NAME=86thMedGrp-Ramstein.xls,NAME2=86thMedGrp-
Ramstein,FOLDER=Overseas);
%RUNWD(AREA=Heidelberg Meddac,NAME=HeidelbergMeddac.xls,NAME2=HeidelbergMeddac,FOLDER=Overseas);
%RUNWD(AREA=Landstuhl Regional Medcen,NAME=LandstuhlRegionalMedcen.xls,NAME2=LandstuhlRegionalMedcen,FOLDER=Overseas);
%RUNWD(AREA=NH Guam-Agana,NAME=NHGuam-Agana.xls,NAME2=NHGuam-Agana,FOLDER=Overseas);
%RUNWD(AREA=NH Okinawa,NAME=NHokinawa.xls,NAME2=NHokinawa,FOLDER=Overseas);
%RUNWD(AREA=NH Sigonella,NAME=NHSigonella.xls,NAME2=NHSigonella,FOLDER=Overseas);
%RUNWD(AREA=NH Yokosuka,NAME=NHYokosuka.xls,NAME2=NHYokosuka,FOLDER=Overseas);
%RUNWD(AREA=Wuerzburg Meddac,NAME=WuerzburgMeddac.xls,NAME2=WuerzburgMeddac,FOLDER=Overseas);

/*---dont need pdf report---;
%RUNWD(AREA=USA MHS,NAME=USAMHS.xls,NAME2=USAMHS,FOLDER=USAMHS);
%RUNWD(AREA=Pacific-Air force,NAME=Pacific-Airforce.xls,NAME2=Pacific-Airforce,FOLDER=Overseas);

```

H.3.D CONSUMERWATCH\CONSUMERWATCH-WORD-CSOUTH.SAS - RUN ANNUAL AUTOMATED WORD MTF TRICARE CONSUMER WATCH REPORTS-SOUTH.

```

*****
PROJECT: 6663-420
PROGRAM: consumerwatch-word-Coverseas.sas
PURPOSE: Automatet the Consumer Watch Report
        Only be able to automate one Word product at a time, multiple file-open
        and File-save causes SAS to lock up with JAWs screen reader unless
        fixing the problem by downloading "Hot Fix" in SAS institute website.
AUTHOR  : Lucy Lu
DATE    : 11/30/09
NOTE    : This is the second step to automnate the Consumer Watch report.
        1. step 1--run listOfMTF-xxxx.sas
        2. Step 2--copy the list of MTF in listOfMTF.lst file and run this macro.
*****;
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 MPRINT NOCENTER NOFMterr SPOOL;

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR      = 2010;
%LET YEARP1    = 2009;
%LET YEARP2    = 2008;
%LET YOURSAY= MTF;

%LET PATH=L:\&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Response_Rate\xcatch;

/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/

%INCLUDE "CONSUMERWATCH-CMACRO-WORD.INC";

%RUNWD(AREA=20th Med Grp-Shaw,NAME=20thMedGrp-Shaw.xls,NAME2=20thMedGrp-Shaw,FOLDER=South);
%RUNWD(AREA=Winn ACH,NAME=WinnACH.xls,NAME2=WinnACH,FOLDER=South);

/*
%RUNWD(AREA=17th      Med      Grp-Goodfellow,NAME=17thMedGrp-Goodfellow.xls,NAME2=17thMedGrp-
Goodfellow,FOLDER=South);
%RUNWD(AREA=2nd      Med      Grp-Barksdale,NAME=2ndMedGrp-Barksdale.xls,NAME2=2ndMedGrp-
Barksdale,FOLDER=South);
%RUNWD(AREA=314th    Med      Grp-Little Rock,NAME=314thMedGrp-LittleRock.xls,NAME2=314thMedGrp-
LittleRock,FOLDER=South);
%RUNWD(AREA=325th    Med      Grp-Tyndall,NAME=325thMedGrp-Tyndall.xls,NAME2=325thMedGrp-
Tyndall,FOLDER=South);
%RUNWD(AREA=347th    Med      Grp-Moody,NAME=347thMedGrp-Moody.xls,NAME2=347thMedGrp-
Moody,FOLDER=South);
%RUNWD(AREA=42nd     Med      Grp-Maxwell,NAME=42ndMedGrp-Maxwell.xls,NAME2=42ndMedGrp-
Maxwell,FOLDER=South);
%RUNWD(AREA=437th    Med      Grp-Charleston,NAME=437thMedGrp-Charleston.xls,NAME2=437thMedGrp-
Charleston,FOLDER=South);
%RUNWD(AREA=45th     Med      Grp-Patrick,NAME=45thMedGrp-Patrick.xls,NAME2=45thMedGrp-
Patrick,FOLDER=South);
%RUNWD(AREA=59th     Med      Wing-Lackland,NAME=59thMedWing-Lackland.xls,NAME2=59thMedWing-
Lackland,FOLDER=South);
%RUNWD(AREA=6th      Med      Grp-MacDill,NAME=6thMedGrp-MacDill.xls,NAME2=6thMedGrp-
MacDill,FOLDER=South);
%RUNWD(AREA=72nd     Med      Grp-Tinker,NAME=72ndMedGrp-Tinker.xls,NAME2=72ndMedGrp-
Tinker,FOLDER=South);
%RUNWD(AREA=78th     Med      Grp-Robins,NAME=78thMedGrp-Robins.xls,NAME2=78thMedGrp-
Robins,FOLDER=South);
%RUNWD(AREA=7th Med Grp-Dyess,NAME=7thMedGrp-Dyess.xls,NAME2=7thMedGrp-Dyess,FOLDER=South);
%RUNWD(AREA=81st     Med      Grp-Keesler,NAME=81stMedGrp-Keesler.xls,NAME2=81stMedGrp-
Keesler,FOLDER=South);
%RUNWD(AREA=82nd     Med      Grp-Sheppard,NAME=82ndMedGrp-Sheppard.xls,NAME2=82ndMedGrp-
Sheppard,FOLDER=South);
%RUNWD(AREA=96th Med Grp-Eglin,NAME=96thMedGrp-Eglin.xls,NAME2=96thMedGrp-Eglin,FOLDER=South);

```

```

%RUNWD (AREA=Bayne-Jones ACH,NAME=Bayne-JonesACH.xls,NAME2=Bayne-JonesACH,FOLDER=South);
%RUNWD (AREA=Brooke AMC,NAME=BrookeAMC.xls,NAME2=BrookeAMC,FOLDER=South);
%RUNWD (AREA=Darnall ACH,NAME=DarnallACH.xls,NAME2=DarnallACH,FOLDER=South);
%RUNWD (AREA=Eisenhower AMC,NAME=EisenhowerAMC.xls,NAME2=EisenhowerAMC,FOLDER=South);
%RUNWD (AREA=Fox AHC,NAME=FoxAHC.xls,NAME2=FoxAHC,FOLDER=South);
%RUNWD (AREA=Lyster ACH,NAME=LysterACH.xls,NAME2=LysterACH,FOLDER=South);
%RUNWD (AREA=Martin ACH,NAME=MartinACH.xls,NAME2=MartinACH,FOLDER=South);
%RUNWD (AREA=Moncrief ACH,NAME=MoncriefACH.xls,NAME2=MoncriefACH,FOLDER=South);
%RUNWD (AREA=NBHC Mayport,NAME=NBHCMayport.xls,NAME2=NBHCMayport,FOLDER=South);
%RUNWD (AREA=NH Beaufort,NAME=NHBeaufort.xls,NAME2=NHBeaufort,FOLDER=South);
%RUNWD (AREA=NH Charleston,NAME=NHCharleston.xls,NAME2=NHCharleston,FOLDER=South);
%RUNWD (AREA=NH Corpus Christi,NAME=NHCorpusChristi.xls,NAME2=NHCorpusChristi,FOLDER=South);
%RUNWD (AREA=NH Jacksonville,NAME=NHJacksonville.xls,NAME2=NHJacksonville,FOLDER=South);
%RUNWD (AREA=NH Pensacola,NAME=NHPensacola.xls,NAME2=NHPensacola,FOLDER=South);
%RUNWD (AREA=Reynolds ACH,NAME=ReynoldsACH.xls,NAME2=ReynoldsACH,FOLDER=South);

%RUNWD (AREA=16th Med Grp-Hurlburt Field,NAME=16thMedGrp-HurlburtField.xls,NAME2=16thMedGrp-
HurlburtField,FOLDER=South);
%RUNWD (AREA=14th Med Grp-Columbus,NAME=14thMedGrp-Columbus.xls,NAME2=14thMedGrp-
Columbus,FOLDER=South);
%RUNWD (AREA=12th Med Grp-Randolph,NAME=12thMedGrp-Randolph.xls,NAME2=12thMedGrp-
Randolph,FOLDER=South);

*--dont need to run for pdf report--;
*%RUNWD (AREA=South Region-Air force,NAME=SouthRegion-Airforce.xls,NAME2=SouthRegion-
Airforce,FOLDER=South);
*%RUNWD (AREA=South Region-Other,NAME=SouthRegion-Other.xls,NAME2=SouthRegion-
Other,FOLDER=South);

```

H.3.E CONSUMERWATCH\CONSUMERWATCH-WORD-CWEST.SAS - RUN ANNUAL AUTOMATED WORD MTF TRICARE CONSUMER WATCH REPORTS-WEST.

```

*****
PROJECT: 6663-420
PROGRAM: consumerwatch-word-Coverseas.sas
PURPOSE: Automatet the Consumer Watch Report
        Only be able to automate one Word product at a time, multiple file-open
        and File-save causes SAS to lock up with JAWs screen reader unless
        fixing the problem by downloading "Hot Fix" in SAS institute website.
AUTHOR : Lucy Lu
DATE   : 11/30/09
NOTE   : This is the second step to automnate the Consumer Watch report.
        1. step 1--run listOfMTF-xxxx.sas
        2. Step 2--copy the list of MTF in listOfMTF.lst file and run this macro.
*****;
OPTIONS PS=63 LS=200 ERRORS=2 MPRINT NOCENTER NOFMFERR SPOOL;

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT '..\loadweb';

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR = 2010;
%LET YEARP1 = 2009;
%LET YEARP2 = 2008;
%LET YOURSAY= MTF;

%LET PATH=L:\&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Response_Rate\xcatch;

/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/

%INCLUDE "CONSUMERWATCH-CMACRO-WORD.INC";

%RUNWD(AREA=22nd Med Grp-McConnell,NAME=22ndMedGrp-McConnell.xls,NAME2=22ndMedGrp-
McConnell,FOLDER=West);
%RUNWD(AREA=TRICARE Outpatient-Chula Vista,NAME=TRICAREOutpatient-
ChulaVista.xls,NAME2=TRICAREOutpatient-ChulaVista,FOLDER=West);

/*
%RUNWD(AREA=366th MedGrp-Mountain Home,NAME=366thMedGrp-MountainHome.xls,NAME2=366thMedGrp-
MountainHome,FOLDER=West);
%RUNWD(AREA=NMC San Diego,NAME=NMCsSanDiego.xls,NAME2=NMCsSanDiego,FOLDER=West);

%RUNWD(AREA=99th Med Grp-OCallaghan Hosp,NAME=99thMedGrp-OCallaghanHosp.xls,NAME2=99thMedGrp-
OCallaghanHosp,FOLDER=West);
%RUNWD(AREA=60th Med Grp-Travis,NAME=60thMedGrp-Travis.xls,NAME2=60thMedGrp-Travis,FOLDER=West);
%RUNWD(AREA=NH Bremerton,NAME=NHbremerton.xls,NAME2=NHbremerton,FOLDER=West);
%RUNWD(AREA=R W Bliss AHC,NAME=RWBlissAHC.xls,NAME2=RWBlissAHC,FOLDER=West);
%RUNWD(AREA=NH Twentynine Palms,NAME=NHTwentyninePalms.xls,NAME2=NHTwentyninePalms,FOLDER=West);
%RUNWD(AREA=NH Camp Pendleton,NAME=NHCampPendleton.xls,NAME2=NHCampPendleton,FOLDER=West);
%RUNWD(AREA=Weed ACH,NAME=WeedACH.xls,NAME2=WeedACH,FOLDER=West);
%RUNWD(AREA=William Beaumont
AMC,NAME=WilliamBeaumontAMC.xls,NAME2=WilliamBeaumontAMC,FOLDER=West);

%RUNWD(AREA=10th Med Grp-USAF Academy,NAME=10thMedGrp-USAFAcademy.xls,NAME2=10thMedGrp-
USAFAcademy,FOLDER=West);
%RUNWD(AREA=15th Med Grp-Hickam,NAME=15thMedGrp-Hickam.xls,NAME2=15thMedGrp-Hickam,FOLDER=West);
%RUNWD(AREA=21st Med Grp-Peterson,NAME=21stMedGrp-Peterson.xls,NAME2=21stMedGrp-
Peterson,FOLDER=West);
%RUNWD(AREA=28th Med Grp-Ellsworth,NAME=28thMedGrp-Ellsworth.xls,NAME2=28thMedGrp-
Ellsworth,FOLDER=West);
%RUNWD(AREA=30th Med Grp-Vandenberg,NAME=30thMedGrp-Vandenberg.xls,NAME2=30thMedGrp-
Vandenberg,FOLDER=West);
%RUNWD(AREA=341st Med Grp-Malmstrom,NAME=341stMedGrp-Malmstrom.xls,NAME2=341stMedGrp-
Malmstrom,FOLDER=West);
%RUNWD(AREA=355th Med Grp-Davis Monthan,NAME=355thMedGrp-DavisMonthan.xls,NAME2=355thMedGrp-
DavisMonthan,FOLDER=West);

```

```

%RUNWD (AREA=366th Med Grp-Mountain Home,NAME=366thMedGrp-MountainHome.xls,NAME2=366thMedGrp-
MountainHome,FOLDER=West);
%RUNWD (AREA=377th Med Grp-Kirtland,NAME=377thMedGrp-Kirtland.xls,NAME2=377thMedGrp-
Kirtland,FOLDER=West);
%RUNWD (AREA=3rd Med Grp-Elmendorf,NAME=3rdMedGrp-Elmendorf.xls,NAME2=3rdMedGrp-
Elmendorf,FOLDER=West);
%RUNWD (AREA=509th Med Grp-Whiteman,NAME=509thMedGrp-Whiteman.xls,NAME2=509thMedGrp-
Whiteman,FOLDER=West);
%RUNWD (AREA=55th Med Grp-Offutt,NAME=55thMedGrp-Offutt.xls,NAME2=55thMedGrp-Offutt,FOLDER=West);
%RUNWD (AREA=56th Med Grp-Luke,NAME=56thMedGrp-Luke.xls,NAME2=56thMedGrp-Luke,FOLDER=West);
%RUNWD (AREA=5th Med Grp-Minot,NAME=5thMedGrp-Minot.xls,NAME2=5thMedGrp-Minot,FOLDER=West);
%RUNWD (AREA=61st Med Squad-Los Angeles,NAME=61stMedSquad-LosAngeles.xls,NAME2=61stMedSquad-
LosAngeles,FOLDER=West);
%RUNWD (AREA=75th Med Grp-Hill,NAME=75thMedGrp-Hill.xls,NAME2=75thMedGrp-Hill,FOLDER=West);
%RUNWD (AREA=90th Med Grp-F.E. Warren,NAME=90thMedGrp-F.E.Warren.xls,NAME2=90thMedGrp-
F.E.Warren,FOLDER=West);
%RUNWD (AREA=92nd Med Grp-Fairchild,NAME=92ndMedGrp-Fairchild.xls,NAME2=92ndMedGrp-
Fairchild,FOLDER=West);
%RUNWD (AREA=95th Med Grp-Edwards,NAME=95thMedGrp-Edwards.xls,NAME2=95thMedGrp-
Edwards,FOLDER=West);
%RUNWD (AREA=Bassett ACH,NAME=BassettACH.xls,NAME2=BassettACH,FOLDER=West);
%RUNWD (AREA=Evans ACH,NAME=EvansACH.xls,NAME2=EvansACH,FOLDER=West);
%RUNWD (AREA=Irwin ACH,NAME=IrwinACH.xls,NAME2=IrwinACH,FOLDER=West);
%RUNWD (AREA=L. Wood ACH,NAME=L.WoodACH.xls,NAME2=L.WoodACH,FOLDER=West);
%RUNWD (AREA=Madigan AMC,NAME=MadiganAMC.xls,NAME2=MadiganAMC,FOLDER=West);
%RUNWD (AREA=Munson AHC,NAME=MunsonAHC.xls,NAME2=MunsonAHC,FOLDER=West);
%RUNWD (AREA=NACC Port Hueneme,NAME=NACCPortHueneme.xls,NAME2=NACCPortHueneme,FOLDER=West);
%RUNWD (AREA=NBHC NAS North Island,NAME=NBHCNASNorthIsland.xls,NAME2=NBHCNASNorthIsland,FOLDER=West);
%RUNWD (AREA=NBHC NTC San Diego,NAME=NBHCNTCSanDiego.xls,NAME2=NBHCNTCSanDiego,FOLDER=West);
%RUNWD (AREA=NH LeMoore,NAME=NHLeMoore.xls,NAME2=NHLeMoore,FOLDER=West);
%RUNWD (AREA=NH Oak Harbor,NAME=NHOakHarbor.xls,NAME2=NHOakHarbor,FOLDER=West);
%RUNWD (AREA=NMCSan Diego,NAME=NMCSanDiego.xls,NAME2=NMCSanDiego,FOLDER=West);
%RUNWD (AREA=NMCL Pearl Harbor,NAME=NMCLPearlHarbor.xls,NAME2=NMCLPearlHarbor,FOLDER=West);
%RUNWD (AREA=Tripler AMC,NAME=TriplerAMC.xls,NAME2=TriplerAMC,FOLDER=West);

/*---dont need pdf report---;
%RUNWD (AREA=West Region-Air force,NAME=WestRegion-Airforce.xls,NAME2=WestRegion-
Airforce,FOLDER=West);
%RUNWD (AREA=West Region-Other,NAME=WestRegion-Other.xls,NAME2=WestRegion-Other,FOLDER=West);

```

H.4.A Q4FY2010\PROGRAMS\CONSUMERWATCH\CONSUMERWATCH.SAS - RUN CONUS TRICARE CONSUMER WATCH REPORTS - RUN QUARTERLY.

```

*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH.SAS
* PURPOSE: CALL CONSUMERWATCH MACRO PROGRAM
*          TO PRODUCE EXCEL TABLE.
*
* WRITTEN: 02/10/2005 BY LUCY LU FOR Q4 2004.
*
* UPDATE: 4/26/2005 FOR Q1 2005.
* UPDATE: 8/4/2005 FOR Q2 2005.
* UPDATE: 12/15/2005 FOR Q4 2005.
* UPDATE: 04/04/2006 FOR Q2 FISCAL YEAR 2006, LUCY Lu. STARTING THIS QUARTER,
*          THE PERIOD IS CHANGED TO FISCAL YEAR.
* UPDATE: 09/01/2006 Lucy Lu FOR FY 3 2006.
* UPDATE: 10/05/2006 Lucy Lu FOR FY 4 2006.
* MODIFIED 7/30/2007 BY LUCY LU
*          UNIFY THE PERIOD MACRO VARIABLES WITH BENEFICIARY REPORT CARDS PROGRAMS
*          CURRNT  ==> PERIOD4
*          CURRNTQ ==> PERIOD4Q
*          PREV1   ==> PERIOD3
*          PREV1Q  ==> PERIOD3Q
*          PREV2   ==> PERIOD2
*          PREV2Q  ==> PERIOD2Q
*          PREV3   ==> PERIOD1
*          PREV3Q  ==> PERIOD1Q
* UPDATED 12/27/2008 BY LUCY LU FOR Q1 FY 2008
*          AUTOMATE THE CONSUMER WATCH REPORT PRODUCTION
* MODIFIED 5/11/09 BY LUCY LU
*          1.MACRO INCLUDE PROGRAM IS MODIFIED BY REMOVING VALUE OF
*            'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
*            RELATED CODE.
*          2.THE EXCEL AND WORD TEMPLATES ARE MODIFIED TO REMOVE THE CHARTS
*            FOR 'Courteous and Helpful Office Staff'.
*          3.MACRO VARIABLES %LET PERIODxQ WILL BE FIXED AT Q4-Q1.
*            NO CHANGE NEEDED IN EACH QUARTER SINCE THEY ARE THE PROXIES FOR
*            DATASET NAMES ONLY.
*
* MODIFIED 7/22/2010 LUCY LU
*          MODIFY MACRO VARIABLES TO REFLECT THE CHANGE OF INCLUDE MACRO
*          PROGRAM. SEE consumerwatch-macro.inc FOR DETAILS.
*          1.CONSolidATE USMHS, REGION, SERVICE PROGRAMS INTO ONE SAS PROGRAM.
*          2.REPLACE PREIOD MACRO VARIABLES WITH CURRENTQ AND CURRENTY.
*
* INPUT  : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\LOADWEB\TOTAL_Q.SAS7BDAT
*
* OUTPUT : INTO EXCEL SPREADSHEET
*
* PROGRAM TO CALL: CONSUMERWATCH-MACRO.INC
*****;
OPTIONS MPRINT;

LIBNAME CURNTR '..\Loadweb';
*LIBNAME CURNTR 'L:\Q3FY2010\Programs\LoadWeb'; *TEMP;

*starting 2006, the period is changed to fiscal year, LLU 4/5/06;

%LET CURRENTY=2010;      *CURRENT FISCAL YEAR;
%LET CURRENTQ=4;        *CURRENT FISCAL QUARTER;

%LET PATH=L:\Q&CURRENTQ.FY&CURRENTY.\Programs\ConsumerWatch;
*%LET PATH=L:\Q4FY&CURRENTY.\Programs\ConsumerWatch; *TEMP;

TITLE "DOD CONSUMER WATCH Q&CURRENTQ FY &CURRENTY";

%INCLUDE "CONSUMERWATCH_MACRO.INC";

%RUNCW(AREA=USA MHS,FOLDER=USMHS);

```

```
%RUNCW(AREA=NAVY,FOLDER=Navy);  
%RUNCW(AREA=AIR FORCE,FOLDER=AirForce);  
%RUNCW(AREA=ARMY,FOLDER=Army);  
%RUNCW(AREA=WEST,FOLDER=West);  
%RUNCW(AREA=SOUTH,FOLDER=South);  
%RUNCW(AREA=NORTH,FOLDER=North);  
%RUNCW(AREA=Overseas Europe,FOLDER=Europe);  
%RUNCW(AREA=Overseas Pacific,FOLDER=Pacific);
```


H.4.B Q4FY2010\PROGRAMS\CONSUMERWATCH\CONSUMERWATCH_MACRO.INC - PRODUCE NUMBERS FOR QUARTERLY CONSUMER WATCH REPORTS.

```
*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-MACRO.INC
* PURPOSE: To produce numbers that go into data sheet in Excel to produce graphs
*          for regional consumer watch
* AUTHOR  : MIKI SATAKE
* DATE    : 4/24/01
* UPDATED: 7/16/01 FOR QUARTER 2 BY NATALIE JUSTH
* UPDATED: 10/16/01 FOR QUARTER 3 BY NATALIE JUSTH
* UPDATED: 1/11/02 FOR QUARTER 4 BY NATALIE JUSTH
* UPDATED AND RENAMED: 4/9/02 FOR QUARTER 1 2002 BY NATALIE JUSTH
* UPDATED: 7/5/02 FOR QUARTER 2 2002 BY NATALIE JUSTH
* UPDATED: 7/15/02 FOR QUARTER 3 2002 BY NATALIE JUSTH
* UPDATED: 11/12/02 FOR QUARTER 4 2002 BY NATALIE JUSTH
* UPDATED: 4/3/03 FOR QUARTER 1 2003 BY NATALIE JUSTH
* UPDATED: 5/19/03 FOR QUARTER 2 2003 BY NATALIE JUSTH
* UPDATED: 8/28/03 FOR QUARTER 3 2003 BY NATALIE JUSTH
* UPDATED: 11/14/03 FOR QUARTER 4 2003 BY NATALIE JUSTH
* UPDATED: 05/18/2004 FOR QUARTER 1 2004 BY KEITH RATHBUN
* UPDATED: 06/30/2004 FOR QUARTER 2 2004 BY LUCY LU
* UPDATED: 06/30/2004 FOR QUARTER 3 2004 BY LUCY LU. CHANGING XREGION TO XTINEXREG.
* UPDATED: 10/07/2004 BY LUCY LU. ADD THE CODE TO COMPARE CONSUMER WATCH
*          WITH REPORT CARDS IN SCORES AND SIGNIFICANCE.*
* MODIFIED 2/10/05 BY LUCY LU:
*          1). CREATE UNIVERSAL MACRO PROGRAM BASED ON PROGRAM CONSUMERWATCH-R.SAS
*             TO ELIMINATE REDUNDANCY AND INCREASE THE EFFECTIVENESS OF PROGRAMMING.
*          2). ADD ADDITIONAL PREVENTION MEASURE "SMOKING CESSATION"
*             INTO PREVENTIVE CARE TABLE.
* MODIFIED 06/2/2005 BY LUCY LU FOR Q1 2005:
*          1). REMOVE CHOLESTEROL MEASUREMENT AND ADD BMI MEASUREMENT
*          2). COMMENT OUT DISENROLL CODE--NO DISENROLL DATA IN Q1 2005
*          3). ADD SPECIALIST RATING.
* MODIFIED 11/16/2006 BY LUCY LU FOR FY Q4 2006
*          ADD PURCHASE CARE VERSION-- CHANGE PRIME ENROLLEE TO
*          Enrollees with Civilian PCM.
* MODIFIED 6/4/2007 BY LUCY LU. UNIFY THE MACRO PROGRAMS FOR CONSUMER WATCH.
*          !! NEED TO DEFINE MACRO VARIABLE &POP IN SAS PROGRAMS:
*          DIRECT CARE CONSUMER WATCH: &POP=='Prime Enrollees'
*          PURCHASE CARE CONSUMER WATCH: &POP=='Enrollees with Civilian PCM'
* MODIFIED 7/30/2007 BY LUCY LU
*          UNIFY THE PERIOD MACRO VARIABLES WITH BENEFICIARY REPORT CARDS PROGRAMS
*          CURRNT  ===> PERIOD4
*          CURRNTQ ===> PERIOD4Q
*          PREV1   ===> PERIOD3
*          PREV1Q  ===> PERIOD3Q
*          PREV2   ===> PERIOD2
*          PREV2Q  ===> PERIOD2Q
*          PREV3   ===> PERIOD1
*          PREV3Q  ===> PERIOD1Q
* MODIFIED 5/11/09 BY LUCY LU
*          1. STARTING THIS QUARTER, THE DATA DOES NOT INCLUDE THE VALUE OF
*             'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
*             RELATED CODE.
*          2. DELETED MACRO VAR &VAL AND REPLACED BY EXISTING MACRO VAR &AREA.
*
* MODIFIED 7/22/2010 BY LUCY LU
*          1. AUTOMATE PERIOD (QUARTER/YEAR) TO MINIMIZE POSSIBLE ERROR
*          2. ADD MACRO TO MINIMIZE EXCEL WAITING, REDUCE PROGRAM
*             RUNNING TIME
*          3. ELIMINATE UNNECESSARY MACRO VARIABLES PERIOD1Q-PERIOD4Q AND
*             CONSOLIDATE MACRO PROGRAM
*          4. REPLACE MACRO VAR &POP WITH 'Prime Enrollees'.
*
* INPUT  : DATA FROM CONSUMER REPORTS:..\..\PROGRAMS\LOADWEB\TOTAL_Q.SAS7BDAT
*
* OUTPUT : INTO EXCEL SPREADSHEET
*****;
```

OPTIONS PS=60 LS=120 ERRORS=2 NOCENTER NOFMterr NOXWAIT NOXSYNC SPOOL;

```

*LLU 7/21/2010--AUTOMATING PERIOD, MINIMIZE POSSIBLE ERROR;
DATA M1;

*Set the first month of each quarter with order of running quarter 1 in FY;
DO MONTH='October', 'July', 'April', 'January';
    OUTPUT;
END;
RUN;

%GLOBAL PERIOD4 PERIOD3 PERIOD2 PERIOD1;
DATA _NULL_;
    SET M1;

INDEX=_N_;
IF &CURRENTQ =1 THEN DO;
    ORDER=INDEX; YR= &CURRENTY -1;
END;
IF &CURRENTQ = 2 THEN DO;
    IF INDEX = 4 THEN DO; ORDER=1; YR=&CURRENTY; END; ELSE
    IF INDEX < 4 THEN DO; ORDER = INDEX+1; YR=&CURRENTY-1; END;
END;
IF &CURRENTQ = 3 THEN DO;
    IF INDEX >=3 THEN DO; ORDER=INDEX-2; YR=&CURRENTY; END; ELSE
    IF INDEX < 3 THEN DO; ORDER=INDEX+2; YR=&CURRENTY-1; END;
END;
IF &CURRENTQ = 4 THEN DO;
    IF INDEX IN (2,3,4) THEN DO; ORDER=INDEX-1; YR=&CURRENTY; END; ELSE
    IF INDEX =1 THEN DO; ORDER=4; YR=&CURRENTY-1; END; /*ELSE
    IF INDEX =4 THEN DO; ORDER=3; YR=&CURRENTY; END;*/
END;

LENGTH PERIOD $15;
PERIOD=TRIM(LEFT(MONTH))||','||' '||(PUT(YR,4.));
IF ORDER=1 THEN CALL SYMPUT('PERIOD4', TRIM(LEFT(PERIOD)));
IF ORDER=2 THEN CALL SYMPUT('PERIOD3', TRIM(LEFT(PERIOD)));
IF ORDER=3 THEN CALL SYMPUT('PERIOD2', TRIM(LEFT(PERIOD)));
IF ORDER=4 THEN CALL SYMPUT('PERIOD1', TRIM(LEFT(PERIOD)));

RUN;

%PUT PERIOD4 = &PERIOD4(current quarter);
%PUT PERIOD3 = &PERIOD3;
%PUT PERIOD2 = &PERIOD2;
%PUT PERIOD1 = &PERIOD1;

%MACRO RUNCW (AREA=, /* Region/Service/conus */
              FOLDER=, /* Folder containing excel template */
              CURRENT=CURNTR.TOTAL_Q
              );

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;

    LENGTH FID RC START STOP TIME 8;
    FID = FOPEN('CMDS' , 'S');
    IF (FID LE 0) THEN DO;
        RC = SYSTEM('START EXCEL');
        START = DATETIME();
        STOP = START + 10;
        DO WHILE (FID LE 0);
            FID = FOPEN('CMDS' , 'S');
            TIME = DATETIME();
            IF (TIME GE STOP) THEN FID = 1;
        END;
    END;
    RC = FCLOSE(FID);
RUN;

```

```

*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME;
%MACRO SETUP;

DATA _NULL_;
  SINGLE=" ";
  DOUBLE=" ";

LENGTH OPENXLS SAVEXLS $120;
  OPENXLS=SINGLE||"[OPEN("||DOUBLE||"&PATH.\TEMPLATE.XLSB"||DOUBLE||")]"||SINGLE;
  SAVEXLS=SINGLE||"[SAVE.AS("||DOUBLE||"&PATH.\FOLDER.\FOLDER.XLSB"||DOUBLE||")]"||SINGLE;

  CALL SYMPUT ("OPENXLS",TRIM(OPENXLS));
  CALL SYMPUT ("SAVEXLS",TRIM(SAVEXLS));

RUN;

%MEND SETUP;
%SETUP;

DATA _NULL_;

  FILE CMDS;
  PUT &OPENXLS;
  X=SLEEP(2);
  PUT &SAVEXLS;
  PUT '[app.minimize()]';

RUN;

TITLE2 "&AREA.";

/* This macro pulls data from the specified dataset to be used in the Consumer Watch */
%MACRO GETDATA (DATASET=, /* Current quarter data set */
  MAJGRP=, /* Value of variable MAJGRP */
  REGION=, /* Value of variable REGION */
  REGCAT=, /* Value of variable REGCAT */
  BENEFIT=, /* Value of variable BENEFIT */
  BENTYPE=, /* Value of variable BENTYPE */
  TIMEPD=, /* Value of variable TIMEPD */
  OUTDATA= /* Name of output data set */
);
PROC FREQ NOPRINT DATA=&DATASET;
  WHERE MAJGRP = &MAJGRP
    AND REGION IN &REGION
    AND REGCAT IN &REGCAT
    AND BENEFIT IN &BENEFIT
    AND BENTYPE = &BENTYPE
    AND TIMEPD = &TIMEPD;
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SCORE*N_OBS*N_WGT*SIG/ OUT=&OUTDATA(DROP=COUNT
PERCENT);
RUN;
%MEND GETDATA;

/* This macro re-calculates SCORE based on the quarterly benchmark */
%MACRO NEWSCORE (FIGURE=); /* Figure number in consumer watch reports;
*/

*-----
7/20/2010 LLu, eliminate macro variables PERIOD1Q-PERIOD4Q and
consolidate the macro code:
  Figx_1=current quarter
  Figx_2=previous quarter 1
  Figx_3=previous quarter 2
  Figx_4=previous quarter 3
-----;

%DO QUARTER = 1 %TO 4;

DATA FIG&FIGURE._&QUARTER FIGB_&QUARTER(KEEP=SCORE N);
  SET FIG&FIGURE._&QUARTER;
N=1;
  IF REGION='Benchmark' THEN OUTPUT FIGB_&QUARTER;

```

```

ELSE OUTPUT FIG&FIGURE._&QUARTER;

RUN;

/*ADD CODE HERE TO PRESERVE ABOVE DATASET FOR LATER COMPARISON. LLU 10/7/04*/

DATA CFIG&FIGURE._&QUARTER;
SET FIG&FIGURE._&QUARTER;

KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
RUN;

DATA FIG&FIGURE._&QUARTER(DROP=RSCORE);
MERGE FIGB_&QUARTER(RENAME=(SCORE=RSCORE))
      FIG&FIGURE._&QUARTER;
BY N;
* SCORE=SCORE-RSCORE;
RUN;
%END;

DATA FIG&FIGURE(DROP=BSCORE);
SET BENCH FIG&FIGURE._1 FIG&FIGURE._2 FIG&FIGURE._3 FIG&FIGURE._4;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
ROW = 3;
BSCORE=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD1" THEN DO;
ROW = 4;
* SCORE=SCORE+BSCORE;
IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
END;
ELSE IF TIMEPD = "&PERIOD2" THEN DO;
ROW = 5;
* SCORE=SCORE+BSCORE;
IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
END;
ELSE IF TIMEPD = "&PERIOD3" THEN DO;
ROW = 6;
* SCORE=SCORE+BSCORE;
IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
END;
ELSE IF TIMEPD = "&PERIOD4" THEN DO;
ROW=7;
* SCORE=SCORE+BSCORE;
END;
COL2 = SCORE; *3/4/08 LLu, increase the score by 100 to align with fig. 5-10;

COL3 = SIG;

RUN;
PROC SORT;
BY ROW;
RUN;
%MEND NEWSCORE;

*****
* FIGURE 1: Health Care Rating
*****;
TITLE2 'Figure 1: Health Care Rating';
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION=('Benchmark'),
          REGCAT=('Benchmark'),
          BENEFIT=('Health Care'),
          BENTYPE=('Composite'),
          TIMEPD("&PERIOD4"),
          OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('Health Care'),
          BENTYPE=('Composite'),

```

```

        TIMEPD=("&PERIOD4"),
        OUTDATA=FIG1_1);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD3"),
        OUTDATA=FIG1_2);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD2"),
        OUTDATA=FIG1_3);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD1"),
        OUTDATA=FIG1_4);

```

```
%NEWSCORE (FIGURE=1);
```

```

*****
* DDE LINK
*****;
FILENAME TBL DDE "EXCEL|RATINGS!R18C2:R22C3";

```

```

DATA _NULL_;
  SET FIG1;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2 '09'X COL3;
RUN;

```

```

*****
* FIGURE 2: Health Plan Rating
*****;
TITLE2 'Figure 2: Health Plan Rating';
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=FIG2_1);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD3"),
        OUTDATA=FIG2_2);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),

```

```

        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD2"),
        OUTDATA=FIG2_3);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD1"),
        OUTDATA=FIG2_4);

%NEWSCORE (FIGURE=2);

*****
* DDE LINK (EXCEL file has to be open )
*****;
FILENAME TBL DDE "EXCEL|RATINGS!R18C6:R22C7";

DATA _NULL_;
    SET FIG2;
    FILE TBL NOTAB LRECL=200;
    X=SLEEP(.1);
    PUT COL2 '09'X COL3;
RUN;

*****
* FIGURE 3: Personal Provider Rating
*****;
TITLE2 'Figure 3: Personal Provider Rating';
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=FIG3_1);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD3"),
        OUTDATA=FIG3_2);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD2"),
        OUTDATA=FIG3_3);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD1"),
        OUTDATA=FIG3_4);

```

```

%NEWSCORE (FIGURE=3);

*****
* DDE LINK (EXCEL file has to be open )
*****;
FILENAME TBL DDE "EXCEL|RATINGS!R18C10:R22C11";

DATA _NULL_;
  SET FIG3;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2 '09'X COL3;
RUN;

*****
* FIGURE 4: Specialist Rating--added for Q1 2005, LLu 6/2/05
*****;
TITLE2 'Figure 4: Specialist Rating';
%GETDATA (DATASET=&CURRENT,
  MAJGRP="Prime Enrollees",
  REGION=('Benchmark'),
  REGCAT=('Benchmark'),
  BENEFIT=('Specialty Care'),
  BENTYPE=('Composite'),
  TIMEPD=("&PERIOD4"),
  OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
  MAJGRP="Prime Enrollees",
  REGION=("&AREA", 'Benchmark'),
  REGCAT=("&AREA", 'Benchmark'),
  BENEFIT=('Specialty Care'),
  BENTYPE=('Composite'),
  TIMEPD=("&PERIOD4"),
  OUTDATA=FIG4_1);
%GETDATA (DATASET=&CURRENT,
  MAJGRP="Prime Enrollees",
  REGION=("&AREA", 'Benchmark'),
  REGCAT=("&AREA", 'Benchmark'),
  BENEFIT=('Specialty Care'),
  BENTYPE=('Composite'),
  TIMEPD=("&PERIOD3"),
  OUTDATA=FIG4_2);
%GETDATA (DATASET=&CURRENT,
  MAJGRP="Prime Enrollees",
  REGION=("&AREA", 'Benchmark'),
  REGCAT=("&AREA", 'Benchmark'),
  BENEFIT=('Specialty Care'),
  BENTYPE=('Composite'),
  TIMEPD=("&PERIOD2"),
  OUTDATA=FIG4_3);
%GETDATA (DATASET=&CURRENT,
  MAJGRP="Prime Enrollees",
  REGION=("&AREA", 'Benchmark'),
  REGCAT=("&AREA", 'Benchmark'),
  BENEFIT=('Specialty Care'),
  BENTYPE=('Composite'),
  TIMEPD=("&PERIOD1"),
  OUTDATA=FIG4_4);

%NEWSCORE (FIGURE=4);

*****
* DDE LINK (EXCEL file has to be open )
*****;
FILENAME TBL DDE "EXCEL|RATINGS!R18C14:R22C15";

DATA _NULL_;
  SET FIG4;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);

```

```

PUT COL2 '09'X COL3;
RUN;

*****
* FIGURE 5: Access Composites
*****;
TITLE2 'Figure 5: Access Composites';
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION=('Benchmark'),
          REGCAT=('Benchmark'),
          BENEFIT=('Getting Needed Care','Getting Care Quickly'),
          BENTYPE=('Composite'),
          TIMEPD=(" &PERIOD4"),
          OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION=(" &AREA", 'Benchmark'),
          REGCAT=(" &AREA", 'Benchmark'),
          BENEFIT=('Getting Needed Care','Getting Care Quickly'),
          BENTYPE=('Composite'),
          TIMEPD=(" &PERIOD4"),
          OUTDATA=FIG5_1);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION=(" &AREA", 'Benchmark'),
          REGCAT=(" &AREA", 'Benchmark'),
          BENEFIT=('Getting Needed Care','Getting Care Quickly'),
          BENTYPE=('Composite'),
          TIMEPD=(" &PERIOD3"),
          OUTDATA=FIG5_2);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION=(" &AREA", 'Benchmark'),
          REGCAT=(" &AREA", 'Benchmark'),
          BENEFIT=('Getting Needed Care','Getting Care Quickly'),
          BENTYPE=('Composite'),
          TIMEPD=(" &PERIOD2"),
          OUTDATA=FIG5_3);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION=(" &AREA", 'Benchmark'),
          REGCAT=(" &AREA", 'Benchmark'),
          BENEFIT=('Getting Needed Care','Getting Care Quickly'),
          BENTYPE=('Composite'),
          TIMEPD=(" &PERIOD1"),
          OUTDATA=FIG5_4);

*MOD 7/20/2010 LLu;

%MACRO COMPSCORE (FIGNUM=);      *Use macro for figures 5, 6, and 7;

%DO QUARTER = 1 %TO 4;

DATA FIG&FIGNUM._&QUARTER FIGB_&QUARTER (KEEP=SCORE BENEFIT SIG);
  SET FIG&FIGNUM._&QUARTER;
  IF REGION = 'Benchmark' THEN OUTPUT FIGB_&QUARTER;
  ELSE OUTPUT FIG&FIGNUM._&QUARTER;
RUN;
PROC SORT DATA=FIG&FIGNUM._&QUARTER;
  BY BENEFIT;
RUN;
PROC SORT DATA=FIGB_&QUARTER;
  BY BENEFIT;
RUN;

/*ADD CODE HERE TO PRESERVE THE SCORES IN CONUS_Q DATASET FOR LATER COMPARISON. LLU 10/7/04*/
DATA CFIG&FIGNUM._&QUARTER;
  SET FIG&FIGNUM._&QUARTER;

KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
RUN;

```



```

DATA FIG&FIGNUM._&QUARTER(DROP=RSCORE);
  MERGE FIGB_&QUARTER(RENAME=(SCORE=RSCORE))
    FIG&FIGNUM._&QUARTER;
  BY BENEFIT;
  * SCORE=SCORE-RSCORE;
RUN;
%END;

%MEND COMPSCORE;

%COMPSCORE (FIGNUM=5);

/*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER COMPARISON*/
DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
  COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
  COL4(DROP=SCORE RENAME=(SCORE1=COL4))
  COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
  COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
  COL7(KEEP=ROW SIG RENAME=(SIG=COL7))
  ;
SET BENCH FIG5_1 FIG5_2 FIG5_3 FIG5_4;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
  BSCORE=SCORE;
  ROW = 18;
  SCORE1 = SCORE;
END;
ELSE IF TIMEPD = "&PERIOD1" THEN DO;
  ROW = 18;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD2" THEN DO;
  ROW = 19;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD3" THEN DO;
  ROW = 20;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD4" THEN DO;
  ROW = 21;
  * SCORE=BSCORE+SCORE;
  SCORE1 = SCORE;
END;

IF (BENEFIT = 'Getting Needed Care' AND REGION NE 'Benchmark') THEN OUTPUT COL2 COL6;
IF (BENEFIT = 'Getting Needed Care' AND REGION = 'Benchmark') THEN OUTPUT COL3;
IF (BENEFIT = 'Getting Care Quickly' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
IF (BENEFIT = 'Getting Care Quickly' AND REGION = 'Benchmark') THEN OUTPUT COL5;

RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 10/7/04*/

DATA FIG5A;
  MERGE COL2 COL6;
  BY ROW;
RUN;

```

```
DATA FIG5B;
  MERGE COL4 COL7;
  BY ROW;
RUN;
```

```
DATA FIG5AB;
  SET FIG5A FIG5B;
  BY ROW;
RUN;
```

```
DATA FIG5;
  MERGE COL2 COL3 COL4(KEEP=ROW COL4)
        COL5 COL6 COL7;
  BY ROW;
RUN;
```

```
*****
* DDE LINK (EXCEL file has to be open )
*****;
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C2:R21C2";
```

```
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2;
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C3:R18C3";
```

```
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL3;
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C4:R21C4";
```

```
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL4;
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C5:R18C5";
```

```
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL5;
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R23C2:R26C4";
```

```
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL6 '09'X '09'X COL7;
RUN;
```

```
*****
* FIGURE 6: Office Composites
*****;
/*LLU 5/11/09, DELETE datasets COL2,3,6 WITH SCORES OF
  'Courteous and Helpful Office Staff'*/
```

```

TITLE2 'Figure 6: Office Composites';
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION=('Benchmark'),
          REGCAT=('Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD("&PERIOD4"),
          OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD("&PERIOD4"),
          OUTDATA=FIG6_1);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD("&PERIOD3"),
          OUTDATA=FIG6_2);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD("&PERIOD2"),
          OUTDATA=FIG6_3);
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD("&PERIOD1"),
          OUTDATA=FIG6_4);

%COMPSCORE (FIGNUM=6);

/*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER COMPARISON*/
DATA COL4(DROP=SCORE RENAME=(SCORE1=COL4))
      COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
      COL7(KEEP=ROW SIG RENAME=(SIG=COL7))
      ;
SET BENCH FIG6_1 FIG6_2 FIG6_3 FIG6_4;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
  BSCORE=SCORE;
  ROW = 18;
  SCORE1 = SCORE;
END;
ELSE IF TIMEPD = "&PERIOD1" THEN DO;
  ROW = 18;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD2" THEN DO;
  ROW = 19;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD3" THEN DO;
  ROW = 20;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;

```

```

END;
ELSE IF TIMEPD = "&PERIOD4" THEN DO;
    ROW = 21;
    * SCORE=BSCORE+SCORE;
    SCORE1 = SCORE;
END;

IF (BENEFIT = 'How Well Doctors Communicate' AND REGION NE 'Benchmark') THEN OUTPUT COL4
COL7;
IF (BENEFIT = 'How Well Doctors Communicate' AND REGION = 'Benchmark') THEN OUTPUT COL5;

RUN;

PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

DATA FIG6;
    MERGE COL4(KEEP=ROW COL4)
          COL5 COL7;
    BY ROW;
RUN;

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 6. LLU 10/7/04*/
DATA FIG6AB;
    MERGE COL4 COL7;
    BY ROW;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C9:R21C9";

DATA _NULL_;
    SET FIG6;
    FILE TBL NOTAB LRECL=200;
    X=SLEEP(.1);
    PUT COL4;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C10:R18C10";

DATA _NULL_;
    SET FIG6;
    FILE TBL NOTAB LRECL=200;
    X=SLEEP(.1);
    PUT COL5;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R23C9:R26C9";

DATA _NULL_;
    SET FIG6;
    FILE TBL NOTAB LRECL=200;
    X=SLEEP(.1);
    PUT COL7;
RUN;

*****
* FIGURE 7: Claims/Service Composites
*****;
TITLE2 'Figure 7: Claims/Service Composites';
%GETDATA (DATASET=&CURRENT,
          MAJGRP="Prime Enrollees",
          REGION=('Benchmark'),
          REGCAT=('Benchmark'),
          BENEFIT=('Customer Service','Claims Processing'),

```

```

        BENTYPE=('Composite'),
        TIMEPD("&PERIOD4"),
        OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Customer Service', 'Claims Processing'),
        BENTYPE=('Composite'),
        TIMEPD("&PERIOD4"),
        OUTDATA=FIG7_1);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Customer Service', 'Claims Processing'),
        BENTYPE=('Composite'),
        TIMEPD("&PERIOD3"),
        OUTDATA=FIG7_2);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Customer Service', 'Claims Processing'),
        BENTYPE=('Composite'),
        TIMEPD("&PERIOD2"),
        OUTDATA=FIG7_3);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Customer Service', 'Claims Processing'),
        BENTYPE=('Composite'),
        TIMEPD("&PERIOD1"),
        OUTDATA=FIG7_4);

%COMPSCORE (FIGNUM=7);

/*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER COMPARISON*/
DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
      COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
      COL4(DROP=SCORE RENAME=(SCORE1=COL4))
      COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
      COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
      COL7(KEEP=ROW SIG RENAME=(SIG=COL7));
SET BENCH FIG7_1 FIG7_2 FIG7_3 FIG7_4;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
    BSCORE=SCORE;
    ROW = 18;
    SCORE1 = SCORE;
END;
ELSE IF TIMEPD = "&PERIOD1" THEN DO;
    ROW = 18;
*   SCORE=BSCORE+SCORE;
    IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
    ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD2" THEN DO;
    ROW = 19;
*   SCORE=BSCORE+SCORE;
    IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
    ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD3" THEN DO;
    ROW = 20;
*   SCORE=BSCORE+SCORE;
    IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
    ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD4" THEN DO;
    ROW = 21;
*   SCORE=BSCORE+SCORE;

```

```

SCORE1 = SCORE;
END;

IF (BENEFIT = 'Customer Service' AND REGION NE 'Benchmark') THEN OUTPUT COL2 COL6;
IF (BENEFIT = 'Customer Service' AND REGION = 'Benchmark') THEN OUTPUT COL3;
IF (BENEFIT = 'Claims Processing' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
IF (BENEFIT = 'Claims Processing' AND REGION = 'Benchmark') THEN OUTPUT COL5;

RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 7. LLU 10/7/04*/

DATA FIG7A;
MERGE COL2 COL6;
BY ROW;
RUN;

DATA FIG7B;
MERGE COL4 COL7;
BY ROW;
RUN;

DATA FIG7AB;
SET FIG7A FIG7B;
BY ROW;
RUN;

DATA FIG7;
MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
BY ROW;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C14:R21C14";

DATA _NULL_;
SET FIG7;
FILE TBL NOTAB LRECL=200;
X=SLEEP(.1);
PUT COL2;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C15:R18C15";

DATA _NULL_;
SET FIG7;
FILE TBL NOTAB LRECL=200;
X=SLEEP(.1);
PUT COL3;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C16:R21C16";

DATA _NULL_;
SET FIG7;
FILE TBL NOTAB LRECL=200;
X=SLEEP(.1);
PUT COL4;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C17:R18C17";

```

```

DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL5;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R23C14:R26C16";

DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL6 '09'X '09'X COL7;
RUN;

*****
* TABLE 1: Preventive Care
*****;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP IN ("Prime Enrollees",'Benchmark')
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care','Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
      'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD4";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_1(DROP=COUNT PERCENT);
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*N_OBS/ OUT=TAB2_1(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = "Prime Enrollees"
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care','Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
      'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD3";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_2(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = "Prime Enrollees"
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care','Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
      'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD2";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_3(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = "Prime Enrollees"
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care','Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
      'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD1";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_4(DROP=COUNT PERCENT);
RUN;
DATA TAB1_1;
  SET TAB1_1;
  IF MAJGRP = 'Benchmark' THEN DO;
    ROW=42;
    IF BENTYPE='Mammography' THEN COL2=SCORE;
    ELSE IF BENTYPE='Pap Smear' THEN COL3=SCORE;
    ELSE IF BENTYPE='Hypertension' THEN COL4=SCORE;
    ELSE IF BENTYPE='Prenatal Care' THEN COL5=SCORE;
    ELSE IF BENTYPE='Percent Not Obese' THEN COL6=SCORE;
    ELSE IF BENTYPE = 'Non-Smoking Rate' THEN COL7=SCORE;
    ELSE IF BENTYPE = 'Counselled To Quit' THEN COL8=SCORE;
  END;
  ELSE DO;
    ROW = 40;

```

```

IF BENTYPE='Mammography' THEN DO;
  COL2=SCORE;
  COL9=SIG;
END;
ELSE IF BENTYPE='Pap Smear' THEN DO;
  COL3=SCORE;
  COL10=SIG;
END;
ELSE IF BENTYPE='Hypertension' THEN DO;
  COL4=SCORE;
  COL11=SIG;
END;
ELSE IF BENTYPE='Prenatal Care' THEN DO;
  COL5=SCORE;
  COL12=SIG;
END;
ELSE IF BENTYPE='Percent Not Obese' THEN DO;
  COL6=SCORE;
  COL13=SIG;
END;
ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
  COL7=SCORE;
  COL14=SIG;
END;
ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
  COL8=SCORE;
  COL15=SIG;
END;
END;
PROC SORT;
BY ROW;
RUN;
DATA TAB2_1;
SET TAB2_1;
ROW=41;
IF MAJGRP="Prime Enrollees";
IF BENTYPE='Mammography' THEN COL2=N_OBS;
ELSE IF BENTYPE='Pap Smear' THEN COL3=N_OBS;
ELSE IF BENTYPE='Hypertension' THEN COL4=N_OBS;
ELSE IF BENTYPE='Prenatal Care' THEN COL5=N_OBS;
ELSE IF BENTYPE='Percent Not Obese' THEN COL6=N_OBS;
ELSE IF BENTYPE='Non-Smoking Rate' THEN COL7=N_OBS;
ELSE IF BENTYPE='Counselled To Quit' THEN COL8=N_OBS;
PROC SORT;
BY ROW;
RUN;
DATA TAB1_2;
SET TAB1_2;
ROW=39;
IF BENTYPE='Mammography' THEN DO;
  COL2=SCORE;
  COL9=SIG;
END;
ELSE IF BENTYPE='Pap Smear' THEN DO;
  COL3=SCORE;
  COL10=SIG;
END;
ELSE IF BENTYPE='Hypertension' THEN DO;
  COL4=SCORE;
  COL11=SIG;
END;
ELSE IF BENTYPE='Prenatal Care' THEN DO;
  COL5=SCORE;
  COL12=SIG;
END;
ELSE IF BENTYPE='Percent Not Obese' THEN DO;
  COL6=SCORE;
  COL13=SIG;
END;
ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
  COL7=SCORE;
  COL14=SIG;
END;
ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;

```



```

        COL8=SCORE;
        COL15=SIG;
    END;
PROC SORT;
BY ROW;
RUN;
DATA TAB1_3;
SET TAB1_3;
ROW=38;
    IF BENTYPE='Mammography' THEN DO;
        COL2=SCORE;
        COL9=SIG;
    END;
    ELSE IF BENTYPE='Pap Smear' THEN DO;
        COL3=SCORE;
        COL10=SIG;
    END;
    ELSE IF BENTYPE='Hypertension' THEN DO;
        COL4=SCORE;
        COL11=SIG;
    END;
    ELSE IF BENTYPE='Prenatal Care' THEN DO;
        COL5=SCORE;
        COL12=SIG;
    END;
    ELSE IF BENTYPE='Percent Not Obese' THEN DO;
        COL6=SCORE;
        COL13=SIG;
    END;
ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
    COL7=SCORE;
    COL14=SIG;
END;
ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
    COL8=SCORE;
    COL15=SIG;
END;
PROC SORT;
BY ROW;

RUN;
DATA TAB1_4;
SET TAB1_4;
ROW=37;
    IF BENTYPE='Mammography' THEN DO;
        COL2=SCORE;
        COL9=SIG;
    END;
    ELSE IF BENTYPE='Pap Smear' THEN DO;
        COL3=SCORE;
        COL10=SIG;
    END;
    ELSE IF BENTYPE='Hypertension' THEN DO;
        COL4=SCORE;
        COL11=SIG;
    END;
    ELSE IF BENTYPE='Prenatal Care' THEN DO;
        COL5=SCORE;
        COL12=SIG;
    END;
    ELSE IF BENTYPE='Percent Not Obese' THEN DO;
        COL6=SCORE;
        COL13=SIG;
    END;
ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
    COL7=SCORE;
    COL14=SIG;
END;
ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
    COL8=SCORE;
    COL15=SIG;
END;
PROC SORT;
BY ROW;

```

```

RUN;

DATA TAB1;
  MERGE TAB1_4 TAB1_3 TAB1_2 TAB1_1 TAB2_1;
  BY ROW;
RUN;
DATA COL2(DROP=COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
  COL3(DROP=COL2 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
  COL4(DROP=COL2 COL3 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
  COL5(DROP=COL2 COL3 COL4 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
  COL6(DROP=COL2 COL3 COL4 COL5 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
  COL7(DROP=COL2 COL3 COL4 COL5 COL6 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
  COL8(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
  COL9(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL10 COL11 COL12 COL13 COL14 COL15)
  COL10(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL11 COL12 COL13 COL14 COL15)
  COL11(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL12 COL13 COL14 COL15)
  COL12(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL13 COL14 COL15)
  COL13(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL14 COL15)
  COL14(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL15)
  COL15(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14);

SET TAB1;

IF COL2 NE . THEN OUTPUT COL2;
IF COL3 NE . THEN OUTPUT COL3;
IF COL4 NE . THEN OUTPUT COL4;
IF COL5 NE . THEN OUTPUT COL5;
IF COL6 NE . THEN OUTPUT COL6;
IF COL7 NE . THEN OUTPUT COL7;
IF COL8 NE . THEN OUTPUT COL8;
IF COL9 NE . THEN OUTPUT COL9;
IF COL10 NE . THEN OUTPUT COL10;
IF COL11 NE . THEN OUTPUT COL11;
IF COL12 NE . THEN OUTPUT COL12;
IF COL13 NE . THEN OUTPUT COL13;
IF COL14 NE . THEN OUTPUT COL14;
IF COL15 NE . THEN OUTPUT COL15;
RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
PROC SORT DATA=COL8; BY ROW; RUN;
PROC SORT DATA=COL9; BY ROW; RUN;
PROC SORT DATA=COL10; BY ROW; RUN;
PROC SORT DATA=COL11; BY ROW; RUN;
PROC SORT DATA=COL12; BY ROW; RUN;
PROC SORT DATA=COL13; BY ROW; RUN;
PROC SORT DATA=COL14; BY ROW; RUN;
PROC SORT DATA=COL15; BY ROW; RUN;

DATA TABLE1;
  MERGE COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15;
  BY ROW;
RUN;

*****
* DDE LINK (EXCEL file has to be open )
*****;
FILENAME TBL DDE "EXCEL|TABLES!R3C10:R8C24";

DATA _NULL_;
  SET TABLE1;
  FILE TBL NOTAB LRECL=200;
  IF ROW NE 42 THEN DO;
    PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X COL8 '09'X COL9 '09'X
    COL10
      '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END;
  ELSE DO;      *no benchmark for counselling;

```

```

    PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X '-' '09'X COL9 '09'X
COL10
    '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
    END;
RUN;

/*Run Excel macro signif, May 9 2006, LLU*/

options noxsync;
*-- Specify XL filename ;

*%let excelf = &FOLDER..XLSB ;

*-- Specify XL macro name ;
%let macron = signif ;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
    FILE CMDS;
    DDECommand = '[Run("'" || "&macron" || "',0)]' ;
    put DDECommand ;

RUN;

/*
DATA _NULL_;
    FILE CMDS;
    PUT '[SAVE]';
    PUT '[QUIT]';
RUN; */

DATA _NULL_;
    FILE CMDS;
    PUT '[CLOSE(TRUE)]';
RUN;

*****
        COMPARE SCORES AND SIG B/T CONSUMER WATCH AND REPORT CARDS.
        SET 0.015 DIFFERENCE AS THRESHOLD.
        LUCY LU 10/07/2004
*****;

PROC SORT DATA=FIG1(DROP=SCORE);                *FROM CONSUMER WATCH. LLU 10/8/04;
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=FIG2(DROP=SCORE);
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=FIG3(DROP=SCORE);
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=FIG5AB OUT=FIG5;
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=FIG6AB OUT=FIG6;
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=FIG7AB OUT=FIG7;
BY BENEFIT TIMEPD REGION;
RUN;

%MACRO COMPARE(I=, TITL=);

DATA CFIG&I;                *FROM CONUS. LLU 10/8/04;

    SET CFIG&I._1
        CFIG&I._2

```

```

        CFIG&I._3
        CFIG&I._4
        ;
RUN;

PROC SORT DATA=FIG&I;
BY BENEFIT TIMEPD REGION;
RUN;

PROC SORT DATA=CFIG&I;
BY BENEFIT TIMEPD REGION;
RUN;

DATA COMBFIG&I;
    MERGE CFIG&I.(IN=F1) FIG&I(IN=F2);
BY BENEFIT TIMEPD REGION;

IF F1 AND F2;

FIG = &I;

IF FIG <=4 THEN DO;
    SCORE2=COL2;
    SIG2=COL3;
END;

ELSE IF FIG >4 THEN DO;
    IF COL2 >= 0 THEN SCORE2=COL2;
    ELSE IF COL4 >0 THEN SCORE2=COL4;

    IF COL6 >= .Z THEN SIG2=COL6;
    ELSE IF COL7>=.Z THEN SIG2=COL7;
END;

SCOREDIF=SCORE2-SCORE;
SIGDIF=SIG2-SIG;

IF ABS(SCOREDIF)>.015 OR SIGDIF>0 THEN FLAG=1;
ELSE FLAG=0;

KEEP BENEFIT TIMEPD REGION SCORE SIG SCORE2 SIG2 SCOREDIF SIGDIF FLAG;

LABEL
FLAG="DIFF IN SCORES >0.015 OR/AND DIFF IN SIG >0"
SCORE="SCORES FROM CONUS"
SCORE2="SCORES FROM CONSUMER WATCH"
SIG="SIG FROM CONUS"
SIG2="SIG FROM CONSUMER WATCH"
;

TITLE " ";
TITLE2 "*****";
TITLE3 "CONSUMER WATCH, &AREA ";

PROC PRINT L NOOBS;
TITLE4 "Compare &TITL.";
RUN;

%MEND COMPARE;

%COMPARE(I=1, TITL=Health Care Rating);
%COMPARE(I=2, TITL=Health Plan Rating);
%COMPARE(I=3, TITL=Personal Provider Rating);
%COMPARE(I=4, TITL=Specialist Rating);

%COMPARE(I=5, TITL=Access composites);

```

```
%COMPARE(I=6, TITL=Office composites);  
%COMPARE(I=7, TITL=Claims/Service composites);
```

```
%MEND RUNCW;
```

H.5.A Q4FY2010\PROGRAMS\CONSUMERWATCH\CONSUMERWATCH_WORD.SAS - RUN THE AUTOMATION OF THE MS WORD CONSUMER WATCH REPORT PRODUCTION.

```
*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-Word.SAS
*
* PURPOSE: CALL CONSUMERWATCH-MACRO-WORD.INC PROGRAM
*          TO PRODUCE WORD DOCUMENT FOR Consumer Watch report.
*
* WRITTEN: 2/21/2008 LUCY LU
*
* INPUT  : EXCEL CHARTS
*
* OUTPUT : WORD DOCUMENTS
*
* PROGRAM TO CALL: CONSUMERWATCH-MACRO-WORD.INC
* MODIFIED : 4/2/2010 BY LUCY LU, SEE COMMENT ON INCLUDE FILE.
* MODIFIED : 7/23/2010 BY LUCY LU. COMBINE ALL 3 WORD PROGRAMS (USMHS,
*          REGION, SERVICE) INTO A SINGLE PROGRAM.
*****;
OPTIONS MPRINT;

%LET QUARTER=4;                *CURRENT QUARTER;
%LET PERIOD =July 2009 to June 2010; *FISCAL YEAR PRIOR TO CURRENT QUARTER;
%LET YEAR=2010;                *CURRENT FISCAL YEAR;
%LET QUARTER3=fourth;          *CURRENT QUARTER;

%LET PATH=L:\Q&QUARTER.FY&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Afinal\Response_Rate;
*%LET RATEPATH=L:\Q3FY2010\Data\Afinal\Response_Rate;          *TEMP;

%INCLUDE "consumerwatch_macro_word.inc";

*%RUNWD(FOLDER=USMHS,NAME=US MHS,YOURSAY=US MHS);

*%RUNWD(FOLDER=West,YOURSAY=your region);
*%RUNWD(FOLDER=North,YOURSAY=your region);
%RUNWD(FOLDER=South,YOURSAY=your region);
*%RUNWD(FOLDER=Europe,YOURSAY=your region);
%RUNWD(FOLDER=Pacific,YOURSAY=your region);

*%RUNWD(FOLDER=Navy,YOURSAY=your service);
*%RUNWD(FOLDER=AirForce,NAME=Air Force,YOURSAY=your service);
*%RUNWD(FOLDER=Army,YOURSAY=your service);
```

H.5.B Q4FY2010\PROGRAMS\CONSUMERWATCH\CONSUMERWATCH_MACRO_WORD.INC - AUTOMATE THE MS WORD CONSUMER WATCH REPORT PRODUCTION.

```

*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-marco-WORD.INC
*
* AUTHOR : LUCY LU
* PURPOSE: Automate the copy and paste process, update the year, region,
*          response rate and sample size for quarterly Consumer
*          Watch report.
*
* DATE   : 03/31/2009
*
* OUTPUT : WORD DOCUMENTS
* MODIFIED: 04/12/2010 BY LUCY LU
*
* 1. Charts in Word are linked to Excel and automated updated once Excel
*    makes change.
* 2. Excel Triplet doesn't work for MS 2007/SAS 9. Using direct VBA
*    code in SAS.
* 3. The final product is in pdf format. Word report is intentionally
*    unsaved to reserve bookmarks.
* MODIFIED: 06/4/2010 BY LUCY LU
*
* 1. Replicating the template of Q2 2010 report found the lower quality
*    of charts in Word report. Using copy and paste instead of link.
* 2. The final products are in Word and pdf format.
* MODIFIED 7/23/2010 BY LUCY LU
*
* ADD MACRO TO MINIMIZE EXCEL AND WORD WAITING, REDUCE PROGRAM
* RUNNING TIME
*****;

OPTIONS NOXWAIT SPOOL NOXSYNC;

*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME;

%MACRO RUNWD(FOLDER=,NAME=&FOLDER,YOURSAY= );

*7/23/2010 LLU, Wait until Excel ready;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;

    LENGTH FID RC START STOP TIME 8;
    FID = FOPEN('CMDS' , 'S');
    IF (FID LE 0) THEN DO;
        RC = SYSTEM('START EXCEL');
        START = DATETIME();
        STOP = START + 10;
        DO WHILE (FID LE 0);
            FID = FOPEN('CMDS' , 'S');
            TIME = DATETIME();
            IF (TIME GE STOP) THEN FID = 1;
        END;
    END;
    RC = FCLOSE(FID);
RUN;

%MACRO SETUP;
    DATA TEST _NULL_;

    SINGLE=" ";
    DOUBLE=" ";

    LENGTH OPENXLS OPENWRD SAVEWRD $120;
    OPENXLS=SINGLE||"[OPEN("||DOUBLE||"&PATH.\&FOLDER.\&FOLDER..xlsb"||DOUBLE||"]"||SINGLE;
    OPENWRD=SINGLE||"[FileOpen.Name="||DOUBLE||"&PATH.\template.docm"||DOUBLE||"]"||SINGLE;
    SAVEWRD=SINGLE||"[FileSaveAs.Name="||DOUBLE||"&PATH.\&FOLDER.\&FOLDER..DOCM"||DOUBLE||"]"||SINGLE;
E;

```

```

CALL SYMPUT ("OPENXLS",TRIM(OPENXLS));
CALL SYMPUT ("OPENWRD",TRIM(OPENWRD));
CALL SYMPUT ("SAVEWRD",TRIM(SAVEWRD));

RUN;

%MEND SETUP;
%SETUP;

DATA _NULL_;
FILE CMDS;
PUT &OPENXLS;
X=SLEEP(2);
PUT '[app.minimize()]';
RUN;

*7/23/2010 LLU, Wait until Word ready;
FILENAME CMNDS DDE "WINWORD|SYSTEM";

DATA _NULL_;
LENGTH FID RC START STOP TIME 8;
FID=FOPEN('CMNDS','S');
IF (FID LE 0) THEN DO;
RC=SYSTEM('START WINWORD');
START=DATETIME();
STOP=START+10;
DO WHILE (FID LE 0);
FID=FOPEN('CMNDS','S');
TIME=DATETIME();
IF (TIME GE STOP) THEN FID=1;
END;
END;
RC=FCLOSE(FID);
RUN;

DATA _NULL_;
FILE CMNDS;
PUT &OPENWRD;
X=SLEEP(2);
PUT &SAVEWRD;
PUT '[APPMINIMIZE]';
RUN;

%MACRO COPYIT;
%DO I=1 %TO 8;

%LET WDMACRO=NEWPASTE&I;
%LET EXMACRO=COPY&I;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
FILE CMDS;
DDECommand = '[Run(" | | "&exmacro" | | ',0)]' ;
PUT DDEcommand ;

RUN;
FILENAME CMDS CLEAR;

FILENAME CMNDS DDE 'WINWORD|SYSTEM';

/*DATA _NULL_;
X=SLEEP(2);
RUN;*/

DATA _NULL_;
FILE CMNDS;
put '[ToolsMacro .Name = "' '&wdmacro" ', .Run]';
RUN;

FILENAME CMNDS CLEAR;

```



```

RUN;

%END;
%MEND COPYIT;
%COPYIT;

*READ THE SAMPLE SIZE AND RESPONSE RATE IN .OUT FILES
AND CREATE MACRO VARIABLES for Word document;
%MACRO RATE1 (DAT);
  DATA &DAT;

      INFILE "&RATEPATH.\&DAT..OUT" LRECL=9999 RECFM=V;
      INPUT LINEIN $100 @; DROP LINEIN;
      IF _N_ GE 7 THEN DO;
          INPUT
              @001 DOMAIN      $CHAR40.
              @141 FRR_UNWT    4.3
              @147 POP         $CHAR7.;
              ;
          OUTPUT;
      END;
  RUN;

*MS 2007 doesnt take comma7 format. This is hard code the comma into text;
DATA &DAT;
  SET &DAT;
  LENGTH POP_UNWT $10;
  POP1=SUBSTR(RIGHT(POP),1,1);
  POP2=SUBSTR(RIGHT(POP),2,3);
  POP3=SUBSTR(RIGHT(POP),5,3);
  POP_UNWT=CATX(' ',POP1,POP2,POP3);
RUN;

%MEND RATE1;

%RATE1(TABLE02A);
%RATE1(XTNEXREG);
%RATE1(XOCONUS);
%RATE1(SERVAFF);

DATA ALLRATE;
  SET TABLE02A
      XTNEXREG
      XOCONUS
      SERVAFF
      ;

  DOMAIN=COMPRESS(DOMAIN);
  IF UPCASE(DOMAIN)=UPCASE('WesternPacific') THEN DOMAIN='PACIFIC';

  IF DOMAIN='' THEN DOMAIN="USMHS";
  FRR_UNWT=FRR_UNWT*100;

  *PUT POP_UNWT= FRR_UNWT=;
  IF UPCASE("&FOLDER.")=UPCASE(DOMAIN) THEN OUTPUT;

RUN;

DATA _NULL_;
  SET ALLRATE;

CALL SYMPUT ("SIZE1", COMPRESS(POP_UNWT));
CALL SYMPUT ("RATE1", COMPRESS(FRR_UNWT));

RUN;

FILENAME CMNDS DDE "WINWORD|SYSTEM";
/*
DATA _NULL_;

```

```

FILE CMNDS;
*X=SLEEP(2);
PUT '[AppMinimize]';
RUN;
*/

```

```

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Region1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&NAME";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Quarter1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&QUARTER";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Year1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&YEAR";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="SIZE"]';
put '[FormatFont.Font="Arial",.Points="10"]';
PUT "&SIZE1";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="RATE"]';
put '[FormatFont.Font="Arial",.Points="10"]';
PUT "&RATE1";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Region2"]';
put '[FormatFont.Font="Arial",.Points="10"]';
PUT "&NAME";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="YourSay"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&YOURSAY";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Quarter3"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&QUARTER3";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Period"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&PERIOD";
RUN;

```

```

DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="Region3"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&NAME";
RUN;

DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="Quarter2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&QUARTER";
RUN;

DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="Year2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&YEAR";
RUN;

*savs as pdf;
%LET CMACRO=SaveAspdf;

FILENAME CMNDS DDE 'WINWORD|SYSTEM';
DATA _NULL_;
FILE CMNDS;

PUT '[ToolsMacro .Name = "' &CMACRO " ", .Run]';
run;

FILENAME CMDS DDE 'EXCEL|SYSTEM';

DATA _NULL_;
FILE CMDS;
*PUT '[SAVE]'; *no save for Excel;
PUT '[CLOSE(FALSE)]';
PUT '[QUIT]';
RUN;

/* reserved for future use;
FILENAME CMNDS DDE 'WINWORD|SYSTEM';
DATA _NULL_;
FILE CMNDS;

PUT '[fileSave] ';
PUT '[FileClose 2] ';
RUN;*/

%MEND;

```

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APPENDIX I

**SAS CODE FOR STATISTICAL AND WEB SPECIFICATIONS FOR THE 2010
TRICARE PURCHASED CARE BENEFICIARY REPORTS - QUARTERS I-IV**

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I.1.A Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\STEP1Q.SAS - CREATE AND RECODE VARIABLES USED IN ADULT BENEFICIARY REPORTS - RUN QUARTERLY.

```

*****
*
* PROJECT:  DoD - Quarterly Adult Report Cards
* PROGRAM:  STEP1Q.SAS
* PURPOSE:  Create Dummy and Recode Variables used in Adult Report Card
*           Create a Female dummy variable
*           Create an Education dummy variable
*           Create 15 region dummies combining regions.
*           7 & 8 into region 8. That is, there
*           isn't a region 7 dummy.
*           Create 7 age dummy variables.
*
*           We require the most desired code to be the highest value.
*           Recode the dependent variables into:
*           1 - the least desirable value
*           2 - the 2nd least desirable value
*           3 - the most desirable value
*           . - missing
*
*           Create 7 variables GROUP1 - GROUP7
*           IF (XINS_COV IN (1,2,6) AND H10004>=2) THEN GROUP1 = 1
*           IF (XENR_PCM IN (1,2,6) AND H10004>=2) THEN GROUP2 = 1
*           IF (XENR_PCM = 3,7 AND H10004>=2) THEN GROUP3 = 1
*           IF XINS_COV IN (3) THEN GROUP4 = 1
*           /*JSO 08/24/2006, Deleted 4,5*/
*           IF XBNFGRP = 1 THEN GROUP5 = 1
*           IF XBNFGRP = 2 THEN GROUP6 = 1
*           IF XBNFGRP IN (3,4) THEN GROUP7 = 1
*           GROUP8 is output for all beneficiaries
*
* MODIFIED: 1) February 2001 By Keith Rathbun, Update for quarterly
*           adult report cards.  Removed permanent dataset ENTIRE.SD2.
*           2) August 2001 By Keith Rathbun, Updated DSN and LIBNAME
*           for 3rd quarter adult report cards.
*           3) OCTOBER 2001 BY DANIELE BEAHM, Because there was no post-
*           stratification done in Q3, changed all references of the
*           POSTSTR variable to ADJ_CELL
*           4) JANUARY 2002 BY DANIELE BEAHM, Modified group3 to include
*           XENR_PCM
*           5) April 2002 By Mike Scott, Updated variable names for 2002
*           survey.
*           6) July 2002 By Mike Scott: See Note #2.  Replaced variable
*           S02S01 with H04075 (new health status variable), deleted
*           code to recode S02S01 to H00077, and changed H00077/R00077
*           rename/recode to H04075/R04075 rename/recode.  The Hispanic/
*           Latino variable is not present.
*           7) January 2003 By Mike Scott, Changed ADJ_CELL to COM_SAMP.
*           8) March 2003 By Mike Scott, Updated variable names for 2003
*           survey.
*           9) June 2003 By Mike Scott, Updated for Q2 2003.
*           10) July 2003 By Mike Scott, Changed COM_SAMP to ADJ_CELL.
*           11) October 2003 By Mike Scott, Updated for Q3 2003.
*           12) January 2004 By Mike Scott, Updated for Q4 2003, and changed
*           DAGEQY to FIELDAGE.
*           13) March 2004 By Mike Scott, Updated for Q1 2004.
*           14) April 2004 By Keith Rathbun, Removed reverse coding for
*           H04031.  2004 survey question wording is 'Within 15 minutes'
*           instead of "More than 15 Minutes".  Added service affiliation
*           variables so only one version of this program is needed to
*           handle the consumer watch processing.
*           15) June 2004 by Regina Gramss, Updated for Q2 2004.
*           16) Sept 2004 by Regina Gramss, changed XRegion to xtenxreg, updated for Q3 2004.
*           17) Jan 2005 by Regina Gramss, changed XTENXREG to XSERVREG to include
*           service affiliation.  Regions have been changed from 4 categories to 16.
*           18) Apr 2005 by Regina Gramss, updated field names for 2005 data.
*           19) Jul 2005 by Regina Gramss, updated for Q2 2005
*           20) Oct 2005 by Regina Gramss, updated for Q3 2005
*           21) Dec 2005 by Regina Gramss, updated for Q4 2005
*           22) March 21, 2006 by Keith Rathbun, updated variable names
*           for Q2 FY 2006.  Changed references to ADJ_CELL to be STRATUM.

```

```

*      23) July 12, 2006 by Justin Oh, updated for Q3 FY 2006
*      24) Aug 22, 2006 by Justin Oh, changed overseas to 3 regions.
*          Regions have been changed from 16 categories to 24.
*          Added XOCONUS to the Keep statement for Overseas classifications.
*          Changed XSERVREG for Overseas (Europe,Pacific,Latin America).
*          Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
*              IF XINS_COV IN (3) THEN GROUP4 = 1
*          Since only XINS_COV IN (1,2,3,6) is kept, (4,5) not needed.
*      25) Oct 03, 2006 by Justin Oh, changed input data HCS063_1 to HCS064_1
*          for Q4FY2006 reports.
*      26) Apr 05, 2007 by Justin Oh, Added %LET BCHTYPE to select BCH types
*          Benchmark OR PurchasedBenchmark.
*      27) Apr 05, 2007 by Justin Oh, Added changes to select RC types
*          ReportCards OR PurchasedReportCards.
*      28) Apr 26, 2007 by Justin Oh, Added codes, variables for new
*          reservists logic.
*      29) May 15, 2007 by Justin Oh, Changed XINS_COV to NXNS_COV to assign
*          Groups 1,3, and 4 for new reservists logic.
*      30) Jul 30, 2007 by Justin Oh, Added added DBENCAT conditions to assign
*          Groups All, 4, 5, and 6.
*      31) Oct 02, 2007 by Justin Oh, changed input data HCS073_1 to HCS074_1
*          for Q4FY2007 reports.
*      32) January 10, 2008 by Keith Rathbun, updated variable names
*          for Q1 FY 2008.
*      33) Apr 11, 2008 by Justin Oh, changed input data HCS081_1 to HCS082_1
*          for Q2FY2008 reports.
*      34) June 13, 2008 by Keith Rathbun, changed input data HCS082_1 to HCS083_1
*          for Q3FY2008 reports.
*      35) Jan 16, 2009 by Mike Rudacille, changed CONUS variable to USA
*      36) Jan 21, 2009 by Mike Rudacille, changed 2009 questionnaire variables
*          applicable to both V3 and V4 from V3 names to V4 names
*      37) March 11, 2009 by Keith Rathbun, changed input data HCS091_1 to HCS092_1
*          for Q2FY2009 reports.
*      38) April 6, 2009 by Mike Rudacille, changed variable names to reflect
*          modifications to beneficiary reports necessary for V4
*      39) June 22, 2009 By Keith Rathbun, Change weight variable from
*          FWRWT_V4 back to FWRWT. Changed input data HCS092_1 to HCS093_1
*          for Q3FY2009 reports.
*      40) Sept 30, 2009 By Mike Rudacille, Changed input data HCS093_1 to HCS094_1
*          for Q4FY2009 reports.
*      41) December 17, 2009 By Emma Ernst, Updated program for Q1FY2010. Updated

```

Variables names

```

*          and input dataset.
*      42) March 2, 2010 By Mike Rudacille, Changed input data HCS101_1 to HCS102_1
*      43) March 25, 2010 By Mike Rudacille, Changed input data HCS102_1 to HCS102_2.
*          The FIELDAGE var is no longer included in the HCSyyyq_1 dataset.
*      44) June 19, 2010 By Mike Rudacille, Changed input data HCS102_2 to HCS103_2.
*      45) August 28, 2010 By Mike Rudacille, Changed input data HCS103_2 to HCS104_2.

```

```

* INPUTS:  1) HCSyyyq_1 - DoD Quarterly HCS Database
*
* OUTPUTS: 1) GROUP1-8.sas7bdat - DoD Quarterly GROUP files as defined above
*
* INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional
*              values for consistency w/ TOPS
*
* NOTES:   1) Groups 1-3 modified 10/09/2000
*
*          2) In Q1_2002, S02S01 was renamed and recoded to H00077 (health
*              status variable for 2000). H02077 was the Hispanic/Latino
*              variable. In Q2_2002, H02077 is health status, and H02079
*              is the Hispanic/Latino variable. To make the Quarter 2 data
*              file (HSC022_1.sd2) more consistent with the Quarter 1 file,
*              the health status variable which was H02077 is now H04075,
*              and the Hispanic/Latino variable which was H02079 is now
*              H02077.

```

```

*****;

```

```

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ****/
%LET RCTYPE = PurchasedReportCards;

```

```

OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr NOOVP COMPRESS=YES;
LIBNAME OUT "DATA";

```



```
LIBNAME IN1      "..\..\..\Data\AFinal";
LIBNAME LIBRARY  "..\..\..\Data\AFinal\fmtlib";
```

```
TITLE1          'Program Saved as: STEP1Q.SAS';
```

```
%LET WGT = FWRWT;
```

```
proc format;
```

```
value servreg 1 = 'North Army'
              2 = 'North Air Force'
              3 = 'North Navy'
              4 = 'North Other'
              5 = 'South Army'
              6 = 'South Air Force'
              7 = 'South Navy'
              8 = 'South Other'
              9 = 'West Army'
             10 = 'West Air Force'
             11 = 'West Navy'
             12 = 'West Other'
             13 = 'Europe Army'
             14 = 'Europe Air Force'
             15 = 'Europe Navy'
             16 = 'Europe Other'
             17 = 'Pacific Army'
             18 = 'Pacific Air Force'
             19 = 'Pacific Navy'
             20 = 'Pacific Other'
             21 = 'Latin America Army'
             22 = 'Latin America Air Force'
             23 = 'Latin America Navy'
             24 = 'Latin America Other';
```

```
DATA ENTIRE;
```

```
SET IN1.HCS104_2(KEEP=
```

```
MPRID
FIELDAGE /*MJS 01/26/04*/
XTNEXREG
SERVAFF /*KRR 04/09/04*/
DBENCAT /*JSO 04/26/2007, added for reservists logic*/
USA
ENBGSMPL
SREDA
XSEXA
XBNFGRP
STRATUM /*KRR 04/03/2006, changed from ADJ_CELL*/
XINS_COV
XENR_PCM
XOCONUS /*JSO 08/24/2006, Overseas Region Indicator*/
&WGT.
/* Getting Needed Care */
H10033
H10029
/* Getting Care Quickly */
H10007
H10010
/* How Well Doctors Communicate */
H10021
H10022
H10023
H10024
/* Customer Service */
H10040
H10041
/* Claims Processing */
H10045
H10046 /*******/
H10063 /* Health Status */
H10018 /* Health Care Rating */
H10047 /* Health Plan Rating */
H10027 /* Personal Doctor Rating */
H10031 /* Specialist Rating */
H10003 /* Health Plan Used */
/*JSO 04/26/2007, added for reservists
```

```
logic*/
```

```

                H10004 /* How Long in Health Plan */
                /*******/
            );
FORMAT _ALL_;
IF SERVAFF='A' THEN XSERVAFF=1;           *Army;
  ELSE IF SERVAFF='F' THEN XSERVAFF=2;     *Air Force;
  ELSE IF SERVAFF='N' THEN XSERVAFF=3;     *Navy;
  ELSE XSERVAFF=4;                         *Other;

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE; /* RSG 02/2005 USE CACSMPL TO DELETE MISSING FIELDS*/

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV;                      /*JSO 04/26/2007 added for reservists logic*/
                                           /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR_PCM = .;
END;
                                           /* Note: use tmp_cell in step2q.sas */
LENGTH TMP_CELL XSERVREG 8;
TMP_CELL = STRATUM; /*KRR 04/03/2006, changed from ADJ_CELL*/

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 13;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 14;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 15;
    ELSE XSERVREG = 16;
  END;
  IF XOCONUS = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 17;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 18;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 19;
    ELSE XSERVREG = 20;
  END;
  IF XOCONUS = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 21;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 22;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 23;
    ELSE XSERVREG = 24;
  END;
END;

RUN;

*****
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
* subsets. Create the region dummies. Recode region 7 to region 8.
*****;

```

```

DATA ENTIRE;
SET ENTIRE;
LENGTH DEFAULT = 4;
IF FIELDAGE NE " " THEN DO; /*MJS 01/26/04*/
  AGE1824=0;
  AGE2534=0;
  AGE3544=0;
  AGE4554=0;
  AGE5564=0;
  AGE6574=0;
  AGE75UP=0;
  IF ( '018' <= FIELDAGE <= '024' ) THEN AGE1824=1; /*MJS 01/26/04*/
  ELSE IF ( '025' <= FIELDAGE <= '034' ) THEN AGE2534=1;
  ELSE IF ( '035' <= FIELDAGE <= '044' ) THEN AGE3544=1;
  ELSE IF ( '045' <= FIELDAGE <= '054' ) THEN AGE4554=1;
  ELSE IF ( '055' <= FIELDAGE <= '064' ) THEN AGE5564=1;
  ELSE IF ( '065' <= FIELDAGE <= '074' ) THEN AGE6574=1;
  ELSE IF ( FIELDAGE > '074' ) THEN AGE75UP=1;
END;

*****
* Create the FEMALE dummy variable.
*****;
IF XSEXA = 2 THEN
  FEMALE = 1;
ELSE
  FEMALE = 0;

*****
* Create the beneficiary group/enrollment group subsets.
*****;
GROUP1 = 0;
GROUP2 = 0;
GROUP3 = 0;
GROUP4 = 0;
GROUP5 = 0;
GROUP6 = 0;
GROUP7 = 0;
GROUP8 = 1; * EVERYONE;

IF (NXNS_COV IN (1,2,6) AND H10004>=2) THEN GROUP1 = 1;
IF (XENR_PCM IN (1,2,6) AND H10004>=2) THEN GROUP2 = 1;
/* JSO 04/05/2007 conditions to run RC type */
IF "&RCTYPE" = 'ReportCards' AND (XENR_PCM IN (3,7) AND H10004>=2) THEN GROUP3 = 1;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND ((XENR_PCM IN (3,7) AND H10004>=2) OR NXNS_COV
IN (3,9)) THEN GROUP3 = 1;
IF NXNS_COV IN (3,9) THEN GROUP4 = 1; /*JSO 08/24/2006, Deleted 4,5*//*JSO 07/30/2007,
Added 9*/
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN GROUP5 = 1;
/*JSO 07/30/2007, added DBENCAT conditions*/
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN GROUP6 = 1;
/*JSO 07/30/2007, added DBENCAT conditions*/
IF XBNFGRP IN (3,4) THEN GROUP7 = 1;

*****
* Recode variables with Never, Sometimes, Usually and Always:
* Recode Never & Sometimes (1 & 2) to 1.
* Recode Usually (3) to 2.
* Recode Always (4) to 3.
*****;

IF H10007 = 1 THEN R10007 = 1;
ELSE IF H10007 = 2 THEN R10007 = 1;
ELSE IF H10007 = 3 THEN R10007 = 2;
ELSE IF H10007 = 4 THEN R10007 = 3;
ELSE IF H10007 < 0 THEN R10007 = .;

IF H10010 = 1 THEN R10010 = 1;
ELSE IF H10010 = 2 THEN R10010 = 1;
ELSE IF H10010 = 3 THEN R10010 = 2;
ELSE IF H10010 = 4 THEN R10010 = 3;
ELSE IF H10010 < 0 THEN R10010 = .;

IF H10021 = 1 THEN R10021 = 1;

```

```
ELSE IF H10021 = 2 THEN R10021 = 1;
ELSE IF H10021 = 3 THEN R10021 = 2;
ELSE IF H10021 = 4 THEN R10021 = 3;
ELSE IF H10021 < 0 THEN R10021 = .;
```

```
IF H10022 = 1 THEN R10022 = 1;
ELSE IF H10022 = 2 THEN R10022 = 1;
ELSE IF H10022 = 3 THEN R10022 = 2;
ELSE IF H10022 = 4 THEN R10022 = 3;
ELSE IF H10022 < 0 THEN R10022 = .;
```

```
IF H10023 = 1 THEN R10023 = 1;
ELSE IF H10023 = 2 THEN R10023 = 1;
ELSE IF H10023 = 3 THEN R10023 = 2;
ELSE IF H10023 = 4 THEN R10023 = 3;
ELSE IF H10023 < 0 THEN R10023 = .;
```

```
IF H10024 = 1 THEN R10024 = 1;
ELSE IF H10024 = 2 THEN R10024 = 1;
ELSE IF H10024 = 3 THEN R10024 = 2;
ELSE IF H10024 = 4 THEN R10024 = 3;
ELSE IF H10024 < 0 THEN R10024 = .;
```

```
IF H10029 = 1 THEN R10029 = 1;
ELSE IF H10029 = 2 THEN R10029 = 1;
ELSE IF H10029 = 3 THEN R10029 = 2;
ELSE IF H10029 = 4 THEN R10029 = 3;
ELSE IF H10029 < 0 THEN R10029 = .;
```

```
IF H10033 = 1 THEN R10033 = 1;
ELSE IF H10033 = 2 THEN R10033 = 1;
ELSE IF H10033 = 3 THEN R10033 = 2;
ELSE IF H10033 = 4 THEN R10033 = 3;
ELSE IF H10033 < 0 THEN R10033 = .;
```

```
IF H10040 = 1 THEN R10040 = 1;
ELSE IF H10040 = 2 THEN R10040 = 1;
ELSE IF H10040 = 3 THEN R10040 = 2;
ELSE IF H10040 = 4 THEN R10040 = 3;
ELSE IF H10040 < 0 THEN R10040 = .;
```

```
IF H10041 = 1 THEN R10041 = 1;
ELSE IF H10041 = 2 THEN R10041 = 1;
ELSE IF H10041 = 3 THEN R10041 = 2;
ELSE IF H10041 = 4 THEN R10041 = 3;
ELSE IF H10041 < 0 THEN R10041 = .;
```

```
IF H10045 = 1 THEN R10045 = 1;
ELSE IF H10045 = 2 THEN R10045 = 1;
ELSE IF H10045 = 3 THEN R10045 = 2;
ELSE IF H10045 = 4 THEN R10045 = 3;
ELSE IF H10045 < 0 THEN R10045 = .;
```

```
IF H10046 = 1 THEN R10046 = 1;
ELSE IF H10046 = 2 THEN R10046 = 1;
ELSE IF H10046 = 3 THEN R10046 = 2;
ELSE IF H10046 = 4 THEN R10046 = 3;
ELSE IF H10046 < 0 THEN R10046 = .;
```

```
*****
* Recode variables to one missing condition ".".
* This also renames all the "H0xxxx" to "R0xxxx".
*****;
R10027 = H10027; IF R10027 < 0 THEN R10027 = .;
R10031 = H10031; IF R10031 < 0 THEN R10031 = .;
R10018 = H10018; IF R10018 < 0 THEN R10018 = .;
R10047 = H10047; IF R10047 < 0 THEN R10047 = .;
R10063 = H10063; IF R10063 < 0 THEN R10063 = .;
```

```
*****
* Create region and service affiliation dummies.
*****;
IF XSERVREG NE . THEN DO; /*JSO 08/24/2006, Changed 16 to 24*/
  ARRAY REGDUMS (24) REG01 REG02 REG03 REG04 REG05 REG06
```

```

REG07 REG08 REG09 REG10 REG11 REG12
REG13 REG14 REG15 REG16 REG17 REG18
REG19 REG20 REG21 REG22 REG23 REG24;

DO I = 1 TO 24;
  REGDUMS(I)=0;
END;
IF          XSERVREG= 1 THEN REG01 =1;
ELSE IF    XSERVREG= 2 THEN REG02 =1;
ELSE IF    XSERVREG= 3 THEN REG03 =1;
ELSE IF    XSERVREG= 4 THEN REG04 =1;
ELSE IF    XSERVREG= 5 THEN REG05 =1;
ELSE IF    XSERVREG= 6 THEN REG06 =1;
ELSE IF    XSERVREG= 7 THEN REG07 =1;
ELSE IF    XSERVREG= 8 THEN REG08 =1;
ELSE IF    XSERVREG= 9 THEN REG09 =1;
ELSE IF    XSERVREG=10 THEN REG10 =1;
ELSE IF    XSERVREG=11 THEN REG11 =1;
ELSE IF    XSERVREG=12 THEN REG12 =1;
ELSE IF    XSERVREG=13 THEN REG13 =1;
ELSE IF    XSERVREG=14 THEN REG14 =1;
ELSE IF    XSERVREG=15 THEN REG15 =1;
ELSE IF    XSERVREG=16 THEN REG16 =1;
ELSE IF    XSERVREG=17 THEN REG17 =1;
ELSE IF    XSERVREG=18 THEN REG18 =1;
ELSE IF    XSERVREG=19 THEN REG19 =1;
ELSE IF    XSERVREG=20 THEN REG20 =1;
ELSE IF    XSERVREG=21 THEN REG21 =1;
ELSE IF    XSERVREG=22 THEN REG22 =1;
ELSE IF    XSERVREG=23 THEN REG23 =1;
ELSE IF    XSERVREG=24 THEN REG24 =1;

ARRAY SRVDUMS (4) SRV01 SRV02 SRV03 SRV04;
DO I = 1 TO 4; /*Needed for consumer watch ONLY */
  SRVDUMS(I)=0;
END;
IF          XSERVAFF = 1 THEN SRV01 = 1;
ELSE IF    XSERVAFF = 2 THEN SRV02 = 1;
ELSE IF    XSERVAFF = 3 THEN SRV03 = 1;
ELSE IF    XSERVAFF = 4 THEN SRV04 = 1;

END;

RUN;

*****
* Recode item responses to proportional values using CONVERT.SAS.
*****;
%INCLUDE "CONVERT.SAS";

%CONT2(DSN=ENTIRE, NUM=4, Y=R10018 R10047 R10027 R10031);
%CONT3(DSN=ENTIRE, NUM=12, Y=R10007 R10010 R10029 R10033
                             R10021 R10022 R10023 R10024
                             R10040 R10041 R10045 R10046);

*****
* Sort the main file to reorder it by MPRID.
*****;
PROC SORT DATA=ENTIRE; BY MPRID; RUN;

*****
* Print the contents of ENTIRE dataset.
*****;
PROC CONTENTS DATA=ENTIRE;
  TITLE2 'Contents of ENTIRE';
RUN;

*****
* Print some of the recoded records.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR MPRID
      FIELDAGE /*MJS 01/26/04*/;

```

```

XTNEXREG
XSERVAFF
XSERVREG
USA
ENBGSMPL
XSEXA
STRATUM /*KRR 04/03/2006 Changed from ADJ_CELL*/
XINS_COV
NXNS_COV /*JSO 04/26/2007, added for reservists logic*/
DBENCAT /*JSO 04/26/2007, added for reservists logic*/
XENR_PCM
&WGT.
;
RUN;

*****
* Print some of the recoded records.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR FIELDAGE /*MJS 01/26/04*/
    AGE1824
    AGE2534
    AGE3544
    AGE4554
    AGE5564
    AGE6574
    AGE75UP

    XSEXA
    FEMALE

    ENBGSMPL
    XINS_COV
    NXNS_COV
    XENR_PCM
    XBNFGRP
    GROUP1
    GROUP2
    GROUP3
    GROUP4
    GROUP5
    GROUP6
    GROUP7
;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded question variables';
  VAR H10007 R10007
    H10010 R10010
    H10021 R10021
    H10022 R10022
    H10023 R10023
    H10024 R10024
    H10029 R10029
    H10033 R10033
    H10040 R10040
    H10041 R10041
    H10045 R10045
    H10046 R10046
    H10018 R10018
    H10027 R10027
    H10031 R10031
    H10047 R10047
    H10063 R10063
;
RUN;

/*JSO 08/24/2006, Changed 16 to 24*/
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded REGION variables';
  VAR XSERVREG

```

```

REG01
REG02
REG03
REG04
REG05
REG06
REG07
REG08
REG09
REG10
REG11
REG12
REG13
REG14
REG15
REG16
REG17
REG18
REG19
REG20
REG21
REG22
REG23
REG24;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded service affiliation variables';
  VAR XSERVREG
      XSERVAFF
      XOCONUS /*JSO 08/24/2006, Changed Overseas Regions*/
      SRV01
      SRV02
      SRV03
      SRV04
  ;
RUN;

*****
* Create the 7 subgroups for processing by STEP2.SAS.
*****;
DATA OUT.GROUP1
      OUT.GROUP2
      OUT.GROUP3
      OUT.GROUP4
      OUT.GROUP5
      OUT.GROUP6
      OUT.GROUP7
      OUT.GROUP8;

  SET ENTIRE;

  DROP
    H10007
    H10010
    H10021
    H10022
    H10023
    H10024
    H10029
    H10033
    H10040
    H10041
    H10045
    H10046
    H10018
    H10027
    H10031
    H10047
    H10063
  ;
  IF GROUP1 = 1 THEN OUTPUT OUT.GROUP1;
  IF GROUP2 = 1 THEN OUTPUT OUT.GROUP2;

```

```
IF GROUP3 = 1 THEN OUTPUT OUT.GROUP3;  
IF GROUP4 = 1 THEN OUTPUT OUT.GROUP4;  
IF GROUP5 = 1 THEN OUTPUT OUT.GROUP5;  
IF GROUP6 = 1 THEN OUTPUT OUT.GROUP6;  
IF GROUP7 = 1 THEN OUTPUT OUT.GROUP7;  
OUTPUT OUT.GROUP8;  
  
RUN;
```


I.1.B Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\CONVERT.SAS - CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES.

```

*****
*
* PROGRAM:  CONVERT.SAS
* TASK:    DOD HEALTH CARE SURVEY ANALYSIS (8687-330)
* PURPOSE: CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES FOR CONSISTENCY
*          WITH THE TOPS SURVEY.
* WRITTEN: October 2000 BY ERIC SCHONE
*
* MODIFIED: October 2000 BY KEITH RATHBUN, Added PROLOG.  Also, added DSN
*           to argument lists.
*
* INPUTS:  1) User-specified SAS Dataset
*
* OUTPUTS: 1) User-specified SAS Dataset with recoded values
*
* NOTES:
*
* 1) Arguments for the CONT1-CONT3 macros are as follows:
*   a) SAS dataset name (dsn)
*   b) Number of variables to be converted (num)
*   c) List of variables to be converted (y)
* 2) These macros assume that the response items have already been
*   converted/recoded to CAHPS scales.
*
*****
* CONT1 - Convert big problem, small problem, not a problem questions to
*         proportional values.
*****;
%macro cont1(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i = 1 to &num;
    if vars(i) ne . and vars(i) ne 3 then vars(i) = 0;
    if vars(i) = 3 then vars(i) = 1;
  end;
run;
%mend cont1;

*****
* CONT2 - Convert rating questions to proportional values.
*****;
%macro cont2(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to &num;
    if vars(i) ne . and vars(i) < 8 then vars(i) = 0;
    if vars(i) in (8,9,10) then vars(i) = 1;
  end;
run;
%mend cont2;

*****
* CONT3 - Convert Never, Sometimes, Usually, Always questions to
*         proportional values.
*****;
%macro cont3(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to &num;
    if vars(i) ne . and vars(i) >= 2 then vars(i) = 2;
    vars(i) = vars(i) - 1;
  end;
run;
%mend cont3;

```

I.1.C Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\STEP2Q.SAS - CALCULATE CAHPS ADJUSTED SCORES - RUN QUARTERLY.

```

*****
*
* Project: DoD - Quarterly Adult Report Cards
* Program: STEP2Q.SAS
* Purpose: Generate risk-adjusted CAHPS Scores for Adult Report Card.
*
* Requires: Program STEP1Q.SAS must be run prior to running this program.
*
* The adult report card contains a large number of risk-adjusted scores.
* Some scores are calculated from responses to individual survey questions.
* Composite scores are calculated by combining scores from individual
* questions. The scores then are compared with external civilian
* benchmarks. The programming tasks involved in building the report
* card are:
*
*     1) Preparing data for analyses
*     2) Estimating risk adjustment models
*     3) Calculating risk-adjusted values and variances
*     4) Calculating benchmarks
*     5) Comparing risk-adjusted values to benchmarks
*         and hypothesis testing
*
*
* Previous Program: STEP1Q.SAS
*
* Modified: 1) 04/10/02 By Mike Scott, Updated variable names for 2002
*            survey.
*            2) 07/11/02 By Mike Scott, Changed R00077 to R04075, since
*            H02077 (health status) is back and was recoded to R04075
*            in STEP1Q.
*            3) 03/21/03 By Mike Scott, Updated variable names for 2003
*            survey.
*            4) 03/24/04 By Mike Scott, Updated for 2004 survey.
*            5) 09/24/2004 By Regina Gramss, Updated to use XTNEKREG instead of XREGION
*            and to update for Q3 2004 data.
*            6) 01/25/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
*            XTNEKREG to include service affiliation.
*            7) 04/2005 By Regina Gramss, Updated field names from 2004 to 2005
*            8) 07/2005 By Regina Gramss, Updated for Q2 2005
*            9) 10/2005 By Regina Gramss, Updated for Q3 2005
*            10) 12/2005 By Regina Gramss, Updated for Q4 2005
*            11) March 21, 2006 by Keith Rathbun, updated variable names
*            for Q2 FY 2006.
*            12) 07/2006 By Justin Oh, Updated for Q3 FY 2006
*            13) Aug 24, 2006 by Justin Oh, changed overseas to 3 regions.
*            Regions have been changed from 16 categories to 24.
*            14) April 7, 2009 by Mike Rudacille, changed variable names to reflect
*            modifications to beneficiary reports necessary for V4
*            15) June 22, 2009 By Keith Rathbun, Change weight variable from
*            FWRWT_V4 back to FWRWT.
*            16) December 17, 2010 by Emma Ernst, updated Variables names for
*            Q1FY2010.
*
*****;
OPTIONS NOCENTER LS=132 PS=79 SOURCE NOOVP COMPRESS=YES;
LIBNAME IN1 "DATA";
LIBNAME OUT "DATA";
LIBNAME OUT2 "DATA\ADULTHATFILES";
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";

/* RSG 02/2005 hard coded skelreg so data does not have to be copied from quarter to quarter*/
/* JSO 08/24/2006, Changed from 16 to 24 Regions */

DATA SKELREG (COMPRESS=NO);
INPUT XSERVREG;
DATALINES;
1
2
3
4

```

```

5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
;
RUN;

*****
*****
* Set GLOBAL parameters here.
*****
*****;

*****
* Set the number of Dependent variables to process.
* One does not need to start at 1, but the max must be >= min.
*****;
%LET MIN_VAR = 1;
%LET MAX_VAR = 16;

*****
* Set the number of subgroups to process.
*****;
%LET MIN_GRP = 1;
%LET MAX_GRP = 8;

*****
* These are expected to remain the same for a particular dependent
* variable run.
*****;
%LET WGT = FWRWT;
%LET IND_VAR1 = R10063;
%LET IND_VAR2 = ; * FEMALE;
%LET IND_VAR3 = ; * SREDHIGH;
%LET DEBUGFLG = 0; * Set to 1 if you want extra printout;

%LET TITL1 = Prime Enrollees;
%LET TITL2 = Enrollees w/military PCM;
%LET TITL3 = Enrollees w/civilian PCM;
%LET TITL4 = Nonenrollees;
%LET TITL5 = Active Duty;
%LET TITL6 = Active Duty Dependents;
%LET TITL7 = Retirees and Dependents;
%LET TITL8 = All Beneficiaries;

*****
* GETTING NEEDED CARE.
*****;
%LET DEPVAR1 = R10029;
%LET DEPVAR2 = R10033;

*****
* GETTING NEEDED CARE QUICKLY.
*****;
%LET DEPVAR3 = R10007;
%LET DEPVAR4 = R10010;

```

```

*****
* HOW WELL DOCTORS COMMUNICATE.
*****;
%LET DEPVAR5 = R10021;
%LET DEPVAR6 = R10022;
%LET DEPVAR7 = R10023;
%LET DEPVAR8 = R10024;

*****
* CUSTOMER SERVICE.
*****;
%LET DEPVAR9 = R10040;
%LET DEPVAR10 = R10041;

*****
* CLAIMS PROCESSING.
*****;
%LET DEPVAR11 = R10045;
%LET DEPVAR12 = R10046;

*****
* RATING ALL HEALTH CARE: 0 - 10.
*****;
%LET DEPVAR13 = R10018;

*****
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%LET DEPVAR14 = R10047;

*****
* RATING OF PERSONAL DR: 0 - 10.
*****;
%LET DEPVAR15 = R10027;

*****
* SPECIALITY CARE: 0 - 10.
*****;
%LET DEPVAR16 = R10031;

%MACRO SCORE;
*****;
* use this macro for all groups;
* super region variables are to be used ;
*****;
%PUT *****;
%PUT STARTING MACRO SCORE;
%PUT "GROUP = " GROUP&IGRP;
%PUT "TITLE = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR = " &&DEPVAR&IVAR;
%PUT "IND_VAR1 = " &IND_VAR1;
%PUT "IND_VAR2 = " &IND_VAR2;
%PUT "IND_VAR3 = " &IND_VAR3;
%PUT "WGT = " &WGT;
%PUT *****;

*-----;
* If the current group is 1 use the skeleton files;
* else used the previous groups output file;
* The mrgfile is added to by each subgroup;
*-----;
%LET RMRGFILE = OUT.R_&&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET RMRGFILE = SKELREG;

* run regression using the region level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
    TITLE2 "Regression Model for GROUP&igrp for regions";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    WEIGHT &WGT;
    %INCLUDE 'REGSREG.INC';
    OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP_CELL

```

```

                PRED&IGRP RESID&IGRP XSERVREG &&DEPVAR&IVAR)
P = PRED&IGRP
R = RESID&IGRP;

RUN;

* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
    TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR: file with predicted values and the RESID&IGRP";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    VAR MPRID XSERVREG &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;
  RUN;

  PROC PRINT DATA=BETAS;
    TITLE2 "BETAS: file with coefficients";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%END;

*-----;
*----- get the standard err/variance ----;
*-----;
%LET DEP = &&DEPVAR&IVAR;
%R_SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);

* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
  SET MEANFILE;
  IF _N_ = 1 THEN SET BETAS(DROP = _TYPE_);
  %INCLUDE 'RISKARRY.INC';
  %INCLUDE 'RISKMEAN.INC';
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN COEFFS(I) = 0;
    IF MEANS(I) = . THEN MEANS(I) = 0;
    ADJUST + ( COEFFS(I) * MEANS(I) );
  END;
  ADJUST = ADJUST + INTERCEPT;
RUN;

* add the region coefficients to the adjusted value from above;
* output one record per region with the region;
* level adjusted scores;
DATA COEFFREG(KEEP=XSERVREG NEWADJUST);
  SET ADJUST;
  %INCLUDE 'REGARRAY.INC';
  LENGTH NAME $8;
  DO I=1 TO DIM(REGRHS);
    CALL VNAME(REGRHS(I),NAME);
    XSERVREG=INPUT(SUBSTR(NAME,4,2),2.);
    IF REGRHS(I) = . THEN REGRHS(I) = 0;
    NEWADJUST=ADJUST + REGRHS(I);
    OUTPUT;
  END;
RUN;

* sum of wgts for each region;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
  CLASS XSERVREG;
  VAR &WGT;
  OUTPUT OUT=REG_WGTS (DROP = _TYPE_ _FREQ_) N=REGCNT&IGRP SUM=REGWGT&IGRP;
RUN;

* merge the COEFFREG file with the region;
* adjusted scores to the region level total weight;
* merge by the region. Creates a region level;

```

```

* file with the total sample weight of the region;
DATA COEFFREG;
    MERGE COEFFREG(IN=IN1)
          REG_WGTS(IN=IN2  KEEP=XSERVREG REGCNT&IGRP REGWGT&IGRP);
    BY XSERVREG;
    IF IN1;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=MEANFILE;
        TITLE2 'Print of MEANFILE';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=ADJUST;
        TITLE2 'Print of ADJUST';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=COEFFREG;
        TITLE2 'Print of COEFFREG: Region Adjusted Scores';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=REG_WGTS;
        TITLE2 'Print of REG_WGTS: Region Area Sum of WGTS';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;

    PROC PRINT DATA=COEFFREG;
        TITLE2 'Print of COEFFREG: Regions Adjusted Scores - with sum of wgts and region';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

* Calculate region level adjusted scores from the;
* region level adjusted scores in COEFFREG;
PROC MEANS DATA=COEFFREG NWAY NOPRINT;
    WEIGHT REGWGT&IGRP;
    CLASS XSERVREG;
    VAR NEWADJUST;
    OUTPUT OUT=REGFILE1 (DROP = _TYPE_ _FREQ_) MEAN=ADJ&IGRP;
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=REGFILE1;
        TITLE2 'Print of REGFILE1: Region Scores';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

* merge the previous groups region results (if any);
* with the region level std errs and the region;
* level results from catchment results collapsed to region;
DATA OUT.R_&DEPVAR&IVAR;
    MERGE &RMRGFILE(IN=INS)
          R&IGRP&&DEPVAR&IVAR
          REG_WGTS(KEEP = REGCNT&IGRP REGWGT&IGRP XSERVREG)
          REGFILE1(KEEP = ADJ&IGRP XSERVREG);
    BY XSERVREG;
    DEPENDNT = "&&DEPVAR&IVAR";
    IF INS;
RUN;

* merge the previous groups regional results (if any);
* with the region level std err and the region;
* level results from the current group/dependent var;
DATA OUT.R_&DEPVAR&IVAR;
    MERGE OUT.R_&DEPVAR&IVAR(IN=INS)
          R&IGRP&&DEPVAR&IVAR /*KRR - removed perm dataset ref to OUT2 */
          REG_WGTS

```

```

        REGFILE1;
    BY XSERVREG;
    DEPENDNT = "&&DEPVAR&IVAR";
    IF INS;
RUN;

PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
    TITLE2 "Print of XSERVREG variables in &&DEPVAR&IVAR";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;
%MEND SCORE;

%MACRO MAKE_INC;
*****;
* creates include files for later Procs;
* Needs to be run each time. Called ;
* in the outer (beneficiary loop). ;
* I chose this method because it was ;
* clearer(to me at least). ;
* This macro needs to be run once per ;
* Dep var per subgroup. ;
*****;

* Drop records where the dependent var is missing;
* Drop records with missing catchment or region values;
DATA GROUP&IGRP;
    SET IN1.GROUP&IGRP;
    IF &&DEPVAR&IVAR NOT = .;
RUN;

DATA _NULL_;
SET GROUP&IGRP END = EOF;
IF &&DEPVAR&IVAR NOT = .;

ARRAY AGEcnt(7) 8 aCNT1 - aCNT7;
RETAIN AGEcnt 0;
RETAIN CNT 0;
ARRAY AGENAM(7) $8 AGENAM1 - AGENAM7;
ARRAY AGENAMX(7) $8 AGENAMX1 - AGENAMX7;
RETAIN AGENAM;
RETAIN AGENAMX;
ARRAY REGcnt(24) 8 REGcnt01- REGcnt24; /*JSO 08/24/2006, Changed from 16 to 24*/
RETAIN CATcnt 0;
RETAIN REGcnt 0;

* create a name array for the parent age dummies;
IF _N_ = 1 THEN DO;
    AGENAM(1) = "AGE1824";
    AGENAM(2) = "AGE2534";
    AGENAM(3) = "AGE3544";
    AGENAM(4) = "AGE4554";
    AGENAM(5) = "AGE5564";
    AGENAM(6) = "AGE6574";
    AGENAM(7) = "AGE75UP";
END;

* total record count;
CNT + 1;

* count records in each age group;
* we will use only age groups with more;
* than 2 obs;
IF AGE1824 = 1 THEN AGEcnt(1) + 1;
IF AGE2534 = 1 THEN AGEcnt(2) + 1;
IF AGE3544 = 1 THEN AGEcnt(3) + 1;
IF AGE4554 = 1 THEN AGEcnt(4) + 1;
IF AGE5564 = 1 THEN AGEcnt(5) + 1;
IF AGE6574 = 1 THEN AGEcnt(6) + 1;
IF AGE75UP = 1 THEN AGEcnt(7) + 1;

* count records in each XSERVREG group;
* we will only use XSERVREGs with more than 2 obs;
* I am using the region value as the subscript;
* to make the code simpler and more readable;

```

```

IF 1<= XSERVREG <=24 THEN DO; /*JSO 08/24/2006, Changed from 16 to 24*/
  REGCNT(XSERVREG) = REGCNT(XSERVREG) + 1;
END;

IF EOF THEN GOTO ENDFILE;
RETURN;

ENDFILE:
* create a title common to all procs in the current group;
TITLE " &&DEPVAR&IVAR &&TITL&IGRP";

* display counts in the log;
%IF &DEBUGFLG > 0 %THEN %DO;
  PUT ' ';
  PUT 'AT EOF: ';
  PUT "TOTAL CNT = " CNT;
  PUT AGENAM(1) " " AGECNT(1)=;
  PUT AGENAM(2) " " AGECNT(2)=;
  PUT AGENAM(3) " " AGECNT(3)=;
  PUT AGENAM(4) " " AGECNT(4)=;
  PUT AGENAM(5) " " AGECNT(5)=;
  PUT AGENAM(6) " " AGECNT(6)=;
  PUT AGENAM(7) " " AGECNT(7)=;
  PUT " ";

  DO I = 1 TO 24; /*JSO 08/24/2006, Changed from 16 to 24*/
    IF(REGCNT(I) > 0) THEN DO;
      PUT 'REG' I Z2. REGCNT(I) 6.;
    END;
  END;
  PUT ' ';

%END; *** of debug test;

*-----;
* This include is for the regression using regions;
* in this case we drop the last XSERVREG;
FILE 'REGSREG.INC';
PUT @6 "MODEL &&DEPVAR&IVAR = ";
IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */
IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */

CNT2 = 0;
* setup an array of those age groups that have > 1 obs;
DO I = 1 TO 7;
  IF AGECNT(I) > 1 THEN DO;
    CNT2 + 1;
    AGENAMX(CNT2) = AGENAM(I);
  END;
END;

* now drop the last category to create;
* an omitted category which is required;
* to solve the regression properly;
DO I = 1 TO CNT2-1;
  PUT @12 AGENAMX(I);
END;

* ditto for the catchment areas with > 0 obs;
* in this case we drop the the first USABLE category;
* this is not consistent with the catchment area code;
* but this is the method that Portia used;
FIRST = 0; /*JSO 08/24/2006, Changed from 16 to 24*/
DO I = 1 TO 24; * skip the 1st region with 1+ obs;
  IF REGCNT(I) > 0 THEN DO;
    IF FIRST = 1 THEN PUT @12 'REG' I Z2.;
    FIRST = 1;
  END;
END;
PUT @11 ' ';

```



```

*-----;
* now create the complete var statement;
* for the Proc MEANS used to replace the;
* independent variables missing values;
* we assume the age groups will always be used;
* These are also called the RISK FACTORS;
FILE 'RISKVARS.INC';
PUT @10 "VAR";
DO I = 1 TO CNT2;
    PUT @12 AGENAMX(I);
END;

* not all the other dependent variables will be used;
* only write them out if they are not null;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR1";
END;

IF "&IND_VAR2" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR2";
END;

IF "&IND_VAR3" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR3";
END;
PUT @11 ' ';

*-----;
* create an ARRAY statement of the desired risk factors;
* called adjusters in the specs and in the code;
FILE 'RISKARRY.INC';
PUT @10 "ARRAY COEFFS(*) $8";
DO I = 1 TO CNT2;
    PUT @12 AGENAMX(I);
END;

CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR1";
END;

IF "&IND_VAR2" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR2";
END;

IF "&IND_VAR3" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR3";
END;
PUT @11 ' ';

*-----;
* create an ARRAY of mean names for the output;
* from a proc MEANS of the Risk Factors in RISKARRY;
FILE 'RISKMEAN.INC';
IND_CNT = CNT2 + CNT3;
PUT @6 "ARRAY MEANS(*) $8";
DO I = 1 TO IND_CNT;
    PUT @12 "MEAN" I Z2.;
END;
PUT @11 ' ';

*-----;
* create the equivalent of the following statement;
* OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN=MEAN1-MEAN&MEAN_CNT;
FILE 'MEANFILE.INC';

```

```

PUT @6 "OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = ";
DO I = 1 TO IND_CNT;
  PUT @12 "MEAN" I Z2.;
END;
PUT @11 ' ';

*-----;
* create a super region area array;
* with at least ONE obs;
FILE 'REGARRAY.INC';
PUT @10 "ARRAY REGRHS(*) $8";
DO I = 1 TO 24; /*JSO 08/24/2006, Changed from 16 to 24*/
  IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
    PUT @16 'REG' I Z2.;
  END;
END;
PUT @11 ' ';
RUN;

* Create the means of the adjuster variables;
* They will be used to replace missing adjuster variables;
* calculate weighted means;
PROC MEANS DATA=GROUP&IGRP;
  WEIGHT &WGT;
  %INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=MEANFILE;
    TITLE2 "Print of MEANFILE for Risk Adjuster variables";
    TITLE3 "Beneficiary group&igrp: &TITL&IGRP";
  RUN;
%END;

DATA GROUP&IGRP;
  SET GROUP&IGRP;
  IF _N_ = 1 THEN SET MEANFILE;
  %INCLUDE 'RISKARRY.INC';
  %INCLUDE 'RISKMEAN.INC';
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN DO;
      COEFFS(I) = MEANS(I);
    END;
  END;
RUN;
/* PROC MEANS DATA=out.group8;
  WEIGHT &WGT;
  %INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN;*/
%MEND MAKE_INC;

%MACRO R_SUDAAN(INFILE);
*****
* Use this macro to create standard err (variances)
* for XSERVREGs.
*****;
%PUT *****;
%PUT STARTING MACRO R_SUDAAN (XSERVREG);
%PUT *****;

DATA &INFILE;
  SET &INFILE;
  IF 1<= XSERVREG <= 24; /*JSO 08/24/2006, Changed from 16 to 24*/
RUN;

* Sort data by TMP_CELL;
PROC SORT DATA=&INFILE;
  BY TMP_CELL;
RUN;

```

```

%IF &DEBUGFLG > 5 %THEN %DO;
  PROC PRINT DATA=&INFILE(OBS=5);
    TITLE2 'Print of the input file to SUDAAN (XSERVREG)';
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;
%END;

* Calculate values for super regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
  WEIGHT &WGT;
  SETENV DECWIDTH=4;
  NEST TMP_CELL / missunit;
  VAR RESID&IGRP;
  TABLES XSERVREG;
  SUBGROUP XSERVREG;
  LEVELS 24; /*JSO 08/24/2006, Changed from 16 to 24*/
  OUTPUT SEMEAN
    / REPLACE TABLECELL=DEFAULT
      FILENAME=RS&DEP;
  RUN;

  DATA R&IGRP&&DEPVAR&IVAR;
    SET RS&DEP;
    KEEP XSERVREG SEMEAN;
    IF SEMEAN NE .;
    RENAME SEMEAN = SEMEAN&IGRP;
  RUN;

  PROC PRINT DATA=R&IGRP&&DEPVAR&IVAR;
    TITLE2 "Print XSERVREG DESCRIPT DATA=R&IGRP&&DEPVAR&IVAR";
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
  RUN;

%MEND R_SUDAAN;

%*****;
%* call the macros;
%*****;

%MACRO MAINLOOP(MIN_VAR,MAX_VAR,MIN_GRP,MAX_GRP);
  %* loop over the set of dependent variables;
  %DO IVAR = &MIN_VAR %TO &MAX_VAR;
    %DO IGRP = &MIN_GRP %TO &MAX_GRP;
      %MAKE_INC;
      %SCORE;
    %END;
  %END;
%END;

%MEND;

%MAINLOOP(&MIN_VAR,&MAX_VAR,&MIN_GRP,&MAX_GRP);

```

I.1.D Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\REGRSREG.INC - INCLUDE FILE1 IN STEP2Q.SAS.

```
MODEL R10031 =  
R10063  
AGE1824  
AGE2534  
AGE3544  
AGE4554  
REG02  
REG03  
REG04  
REG05  
REG06  
REG07  
REG08  
REG09  
REG10  
REG11  
REG12  
REG13  
REG14  
REG15  
REG16  
REG17  
REG18  
REG19  
REG20  
REG21  
REG23  
REG24  
;
```

I.1.E Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\RISKARRY.INC - INCLUDE FILE2 IN STEP2Q.SAS.

```
ARRAY COEFFS(*) $8  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R10063  
;
```

I.1.F Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\RISKMEAN.INC - INCLUDE FILE3 IN STEP2Q.SAS.

```
ARRAY MEANS(*) $8  
  MEAN01  
  MEAN02  
  MEAN03  
  MEAN04  
  MEAN05  
  MEAN06  
;
```

I.1.G Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\REGARRAY.INC - INCLUDE FILE4 IN STEP2Q.SAS.

```
ARRAY REGRHS(*) $8  
  REG01  
  REG02  
  REG03  
  REG04  
  REG05  
  REG06  
  REG07  
  REG08  
  REG09  
  REG10  
  REG11  
  REG12  
  REG13  
  REG14  
  REG15  
  REG16  
  REG17  
  REG18  
  REG19  
  REG20  
  REG21  
  REG23  
  REG24  
;
```

I.1.H Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\RISKVARS.INC - INCLUDE FILE5 IN STEP2Q.SAS.

```
VAR  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R10063  
;
```


I.1.1 Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\MEANFILE.INC - INCLUDE FILE6 IN STEP2Q.SAS.

```
OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN =  
    MEAN01  
    MEAN02  
    MEAN03  
    MEAN04  
    MEAN05  
    MEAN06  
    ;
```

I.1.J Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\COMPOSIT.SAS - CALCULATE CAHPS COMPOSITE SCORES - RUN QUARTERLY.

```

*****
* Project: DoD - Quarterly Adult Report Cards
* Program: COMPOSIT.SAS
* Purpose: Generate Quarterly Adult Report Card composite scores
* Requires: Programs STEP1Q.SAS and STEP2Q.SAS must be run prior
*           to this program.
*
* Modified: 1) 02/27/2001 By Keith Rathbun, Small changes to input DSNs to
*               accommodate the move of ALLSCORE.SAS functionality into the
*               STEP2Q.SAS program.
*           2) 01/08/2002 By Daniele Beahm, Changed versions in libname statements
*               so program can be run with SAS v8 and still produce SAS v612 datasets.
*           3) 04/10/2002 By Mike Scott, Updated variable names for 2002
*               survey.
*           4) 03/21/2003 By Mike Scott, Updated variable names for 2003
*               survey.
*           5) 03/24/2004 By Mike Scott, Updated for 2004.
*           6) 06/15/2004 By Regina Gramss, Update for Q2, added in
*               codes to compensate for any negative trend and to
*               print out the number of nonmissing data producing the
*               negative trend - those equal to or more than 30 nonmissing
*               data need to be further evaluated.
*           7) 09/2004 By Regina Gramss, Update for Q3, added in codes to
*               use XTNEXREG field instead of XREGION.
*           8) 01/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
*               XTNEXREG, to incorporate service affiliation.
*           9) 04/2005 By Regina Gramss, Updated field names from 2004 to 2005.
*           10) 01/31/2006 By Regina Gramss, deleted following lines for "data_r_&var1":
*               "%if &i~=8 %then %do" (keep set statement then delete the following:)
*               "%end
*               %else %do
*                   set in2.h5&var1(rename=(resid5=r_&var1)) in2.h6&var1(rename=(resid6=r_&var1))
in2.h7&var1(rename=(resid7=r_&var1))
*                   %end"
*           11) 03/21/2006 By Keith Rathbun, Updated variable names for 2003
*               survey.
*           12) 04/30/2008 By Justin Oh, Added Eric's upcase command to _name_ on line 204
*           13) April 7, 2009 by Mike Rudacille, changed variable names to reflect
*               modifications to beneficiary reports necessary for V4
*           14) June 22, 2009 By Keith Rathbun, Change weight variable from
*               FWRWT_V4 back to FWRWT.
*           15) December 17, 2009 By Emma Ernst, updated variables names for Q1FY2010
*
*****;
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=YES NOFMTRR;
libname in      "data";
libname in2     "data\adulthatfiles";
libname out     "data";
LIBNAME LIBRARY "..\..\..\DATA\FINAL\FMTLIB";

%LET WGT = FWRWT;

%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,QCOUNT=);

DATA _NULL_;
%IF "&TYPE" = "R" %THEN %DO;
    CALL SYMPUT ('BYVAR','XSERVREG');
%END; %ELSE
%IF "&TYPE" = "C" %THEN %DO;
    CALL SYMPUT ('BYVAR','CACSMPL');
%END;

*****;
*   Create a Composite Score
*****;
DATA _NULL_;
FILE 'FILES.INC';
PUT @6 'SET';
IF "&VAR1" NE '' THEN PUT @8 "IN.&TYPE._&VAR1";
IF "&VAR2" NE '' THEN PUT @8 "IN.&TYPE._&VAR2";

```

```

IF "&VAR3" NE '' THEN PUT @8 "IN.&TYPE._&VAR3";
IF "&VAR4" NE '' THEN PUT @8 "IN.&TYPE._&VAR4";
PUT @8 ' ';
RUN;

DATA COMPOS&COMPOS;
LENGTH DEPENDNT $ 8;
%INCLUDE 'FILES.INC';
DEPENDNT = "&TYPE.COMPOS&COMPOS";
RUN;

PROC SORT DATA=COMPOS&COMPOS;
BY &BYVAR;
RUN;

PROC PRINT DATA=COMPOS&COMPOS(OBS=60);
TITLE "Print of COMPOS&COMPOS after sort";
RUN;

DATA COMPOS&COMPOS;
SET COMPOS&COMPOS;
BY &BYVAR;
%IF "&TYPE" = "R" %THEN %DO;
  ARRAY N(*) REGCNT1 - REGCNT8;
  ARRAY W(*) REGWGT1 - REGWGT8;
  ARRAY TN(*) TOTCNT1 - TOTCNT8;
  ARRAY TW(*) TOTWGT1 - TOTWGT8;
%END; %ELSE
%IF "&TYPE" = "C" %THEN %DO;
  ARRAY N(*) CATCNT1 - CATCNT8;
  ARRAY W(*) CATWGT1 - CATWGT8;
  ARRAY TN(*) TOTCNT1 - TOTCNT8;
  ARRAY TW(*) TOTWGT1 - TOTWGT8;
%END;
ARRAY ADJ(*) ADJ1 - ADJ8;
ARRAY TOTADJ(*) TOTADJ1 - TOTADJ8;
ARRAY AVGADJ(*) AVJADJ1 - AVJADJ8;
RETAIN TOTADJ TN TW;
RETAIN AVGADJ;

IF FIRST.&BYVAR THEN DO;
  DO I = 1 TO DIM(TOTADJ);
    TOTADJ(I) = 0; TN(I)=0; TW(I)=0;
  END;
END; DROP I;

PUT ' ';
PUT ' --- STARTING LOOP1: ' &BYVAR=;
DO I = 1 TO DIM(TOTADJ);
  PUT I= ADJ(I)=;
  IF ADJ(I) NE . THEN DO;
    TOTADJ(I) = TOTADJ(I) + ADJ(I);
    TN(I)=TN(I)+N(I);
    TW(I)=TW(I)+W(I);
  END;
  PUT I= ADJ(I)= TOTADJ(I)=;
END;

PUT ' ';
PUT ' --- STARTING LOOP2: ' &BYVAR=;
IF LAST.&BYVAR THEN DO;
  DO I = 1 TO DIM(TOTADJ);
    PUT I= ADJ(I)= TOTADJ(I)= AVGADJ(I)=;
    AVGADJ(I) = TOTADJ(I)/&QCOUNT;
    adj(i)=avgadj(i);
    N(I)=TN(I)/&QCOUNT;
    W(I)=TW(I)/&QCOUNT;
  END;
  OUTPUT;
END;

RUN;

```

```

%do i=1 %to 8;
/* Collect Standard Errors and residuals from variables in composite */
%if &type=R|(&i=1|&i=2|&i>4) %then %do;
%if &var1~= %then %do;
%let n=r_&var1;
%let m=s_&var1;

data s_&var1(rename=(semean&i=s_&var1));
set in.&type._&var1(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var1;
set in2.h&i.&var1(rename=(resid&i=r_&var1));
proc sort data=r_&var1; by mprid;
%end;
%if &var2~= %then %do;
%let n=%str(&n r_&var2);
%let m=%str(&m s_&var2);
data s_&var2(rename=(semean&i=s_&var2));
set in.&type._&var2(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var2;
set in2.h&i.&var2(rename=(resid&i=r_&var2));
proc sort data=r_&var2; by mprid;
%end;
%if &var3~= %then %do;
%let n=%str(&n r_&var3);
data s_&var3(rename=(semean&i=s_&var3));
set in.&type._&var3(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var3;
set in2.h&i.&var3(rename=(resid&i=r_&var3));
proc sort data=r_&var3; by mprid;
%let m=%str(&m s_&var3); %end;

%if &var4~= %then %do;
%let n=%str(&n r_&var4);
data s_&var4(rename=(semean&i=s_&var4));
set in.&type._&var4(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var4;
set in2.h&i.&var4(rename=(resid&i=r_&var4));
%let m=%str(&m s_&var4);
proc sort data=r_&var4; by mprid;
%end;
/* Merge residual files and estimate correlations */
data infile;
merge &n; by mprid;
proc sort; by &byvar;
proc corr outp=outf noprint;
by &byvar;
var &n;
weight &WGT.;
data outf;
set outf; by &byvar;
where _type_='CORR';
/* sum standard error of a row variable times correlation times standard error of each column
variable, then sum sums and take square root, divide by number of variables */
data final;
merge &m outf; by &byvar;
data final;
set final; by &byvar;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
%do j=1 %to &qcount;
if upcase(_name_)=upcase("R_&var&j") then
sde=sum(sde,r_val(i)*s_&var&j*s_val(i));
%end;
end;
data sefin&compos._&i ERROR;
set final;
by &byvar;

```

```

if first.&byvar then tv=0;
tv+sde;
if last.&byvar then do;
  if tv >= 0 then sde&i=(tv**.5)/&qcount; /* RSG 06/22/2004 change to only do the power
calculation if the tv value is nonnegative*/
  else if tv < 0 then do; /* RSG 06/22/2004 those with negative trend is set aside to print
out*/
    output error; /* and determine whether it is from nonmissing data
of 30 or more*/
    sde&i=.;
  end;
  output sefin&compos._&i;
end;

run;
/* RSG 06/22/2004 - count how many nonmissing values are in the trend data
to determine whether the negative trend in above datastep
(tv < 0) is something to be concerned about */
proc means data=infile noprint;
by &byvar;
var &n;
output out=miss (drop=_type_ _freq_) n=;
data error2;
merge error(in=a drop=&n) miss(in=b);
by &byvar;
if a;
run;
proc print data=error2; /* RSG 06/22/2004 print out negative trend data and count of nonmissing
data*/
var &byvar tv &n;
title "ERROR - NEGATIVE TREND FOR &N IN GROUP=&I. AND COMPOSE=&COMPOS.";
run;
title ' '; /** RSG 06/22/2004 - BLANK OUT TITLE FOR NEXT LOOP **/

%if &i=1 %then %do;
data sefin&compos;
set sefin&compos._1(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;
%else %do;
data sefin&compos;
merge sefin&compos sefin&compos._&i(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;

%end;
%end;

data out.&type.compos&compos;
merge compos&compos sefin&compos; by &byvar;
run;
PROC PRINT DATA=OUT.&TYPE.COMPOS&COMPOS;
TITLE1 COMPTITL;
RUN;
%MEND COMPOSIT;

*-----;
*- set the parameters here -;
*-----;
*****;
* Call the macro for each composite ;
*****;
%COMPOSIT (type=R,compos=1,var1=R10029,var2=R10033,qcount=2);
%COMPOSIT (type=R,compos=2,var1=R10007,var2=R10010,qcount=2);
%COMPOSIT (type=R,compos=3,var1=R10021,var2=R10022,var3=R10023,var4=R10024,qcount=4);
%COMPOSIT (type=R,compos=4,var1=R10040,var2=R10041,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R10045,var2=R10046,qcount=2);

```

I.1.K Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\CAHPS_ADULTQ4FY2010\FILES.INC - INCLUDE FILE IN
COMPOSIT.SAS.

```
SET  
IN.R_R10045  
IN.R_R10046  
;
```

I.2.A Q4FY2010\PROGRAMS\PURCHASEDLOADWEB\CAHPS_ADULTQ4FY2010\LOADCAHQ.SAS - CONVERT CAHPS SCORES INTO WEB LAYOUT - RUN QUARTERLY.

```
*****
*
* PROGRAM:  LOADCAHQ.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Convert the CAHPS Scores Database into the WEB layout
*
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.SAS.
*
* INPUTS:  1) CAHPS Individual and Composite data sets with adjusted scores
*
* OUTPUT:  1) LOADCAHQ.SD2 - Combined CAHPS Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*             and composite data sets
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1Q.SAS - Recode questions and generate group files
*   - STEP2Q.SAS - Calculate individual adjusted scores for group 1-7
*   - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*
* 2) The output file (LOADCAHQ.SD2) will be run through the
*   MAKEHTMQ.SAS program to generate the WEB pages.
*
* MODIFIED:
*
* 1) 04/10/2002 BY MIKE SCOTT, Updated variable names for 2002 survey.
* 2) 03/21/2003 BY MIKE SCOTT, Updated variable names for 2003 survey.
* 3) 06/25/2003 BY MIKE SCOTT, Updated for Q2 2003.
* 4) 07/03/2003 BY MIKE SCOTT, Added TIMEPD variable to be set to the period
*   or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
*   setting to 'Composite'.
* 5) 10/21/2003 BY MIKE SCOTT, Updated for Q3 2003.
* 6) 01/07/2004 BY MIKE SCOTT, Updated for Q4 2003.
* 7) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
* 8) 06/15/2004 BY REGINA GRAMSS, Updated for q2 2004.
* 9) 09/2004 BY REGINA GRAMSS, Updated for Q3 2004, changed all reference
*   to XREGION to XTNEXREG.
* 10) 01/2005 BY REGINA GRAMSS, Changed XTNEXREG to XSERVREG to include
*   service affiliation into regions.
* 11) 04/2005 BY REGINA GRAMSS, Updated 2004 field names for 2005.
* 12) 07/2005 BY REGINA GRAMSS, updated for Q2 2005.
* 13) 10/2005 BY REGINA GRAMSS, Updated for Q3 2005
* 14) 12/2005 BY REGINA GRAMSS, Updated for Q4 2005
* 15) 03/21/2006 BY KEITH RATHBUN, Updated variable names for 2006 survey.
* 16) 07/12/2006 by Justin Oh, updated for Q3 FY 2006
* 17) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3
*   Changed Libname IN for Q4FY2006.
* 18) 12/15/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q4
*   Changed Libname IN for Q1FY2007.
* 19) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1
*   Changed Libname IN for Q2FY2007.
* 20) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
*   ReportCards OR PurchasedReportCards.
* 21) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3
*   Changed Libname IN for Q4FY2007.
* 22) 01/10/2008 BY KEITH RATHBUN, Updated variable names for 2008 survey.
* 23) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1
*   Changed Libname IN for Q2FY2008.
* 24) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2
*   Changed Libname IN for Q3FY2008.
* 25) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3
*   Changed Libname IN for Q4FY2008.
* 26) 04/11/2009 by Mike Rudacille - Changed variable names to reflect
*   modifications to beneficiary reports necessary for V4
* 27) 06/22/2009 by Keith Rathbun - Updated BENTYPE composite year to 2009 Q2
*   Changed Libname IN for Q3FY2009.
* 28) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3
*   Changed Libname IN for Q4FY2009.
```

```

* 29) 10/17/2009 by Emma Ernst- Updated variables for Q12010
*      Changed Libname IN for Q1FY2010.
* 30) 03/02/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q1
*      Changed Libname IN for Q2FY2010.
* 31) 06/19/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q2
*      Changed Libname IN for Q3FY2010.
* 32) 08/28/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q3
*      Changed Libname IN for Q4FY2010.
*
*****
* Assign data libraries and options
*****;
/** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ***/
%LET RCTYPE = PurchasedReportCards;

LIBNAME IN      "..\..\&RCTYPE\CAHPS_ADULTQ4FY2010\DATA";
LIBNAME OUT     "DATA";
LIBNAME LIBRARY "..\..\..\DATA\AFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\LOADCAHQ.INC";

*****
*
* Process Macro Input Parameters:
*
* 1) QUESTION = Variable Question Name (DSN).
*    - For individual Questions it is the variable name
*    - For composite Questions it is called xCOMPOSn
*      where n = a predefined composite # and
*            x = R (Region) or C (Catchment)
* 2) TYPE = Type of Score (COMPOSITE or INDIVIDUAL)
* 3) REGCAT = Region/Catchment Area
*
*****
*****;
%MACRO PROCESS(QUESTION=,TYPE=);
*****
* Assign value for BENTYPE composite year
*****;
%LET YEAR = "2010 Q3"; * Note that this is based on Calendar Year here;

*****
* Assign prefix for weighted/unweighted count variables.
* Unweighted counts is REGCNTn where n=group number.
* Weighted counts is REGWGTn where n=group number.
*****;
%LET PREFIX = REG;

*****
*
* Convert the CAHPS individual Scores Record into WEB layout.
* There are 8 logical records (adjusted scores) per physical record
*
*****;
DATA &QUESTION;
  SET IN.&QUESTION;

  LENGTH MAJGRP  $30;
  LENGTH REGION  $25; **RSG 01/2005 - Changed format to be large enough to include service
affiliation;
  LENGTH REGCAT  $26;
  LENGTH BENTYPE $50;
  LENGTH BENEFIT $34;
  LENGTH TIMEPD  $35; **MJS 07/03/03 Added line;

*****
* Assign Region
*****;

```



```

REGION = PUT(XSERVREG,SERVREGF.);
*****
* Assign benefit and benefit type
*****;
IF "&TYPE" = "INDIVIDUAL" THEN DO;
  IF DEPENDNT IN("R10018","R10047","R10027","R10031") THEN
    BENTYPE = "Composite";    ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
  ELSE
    BENTYPE = PUT(DEPENDNT,$BENTYPF.);
  BENEFIT = PUT(DEPENDNT,$BENEF.);
  TIMEPD = PUT(&YEAR,$BENTYPF.);    ***MJS 07/03/03 Added line;
END;
ELSE IF "&TYPE" = "COMPOSITE" THEN DO;
  BENTYPE = "Composite";    ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
  BENEFIT = PUT(DEPENDNT,$BENEF.);
  TIMEPD = PUT(&YEAR,$BENTYPF.);    ***MJS 07/03/03 Added line;
END;
ELSE PUT "ERROR - Invalid TYPE = &TYPE";

*****
* For now, Initialize Significance test to zero.
*****;
SIG = 0;
*****
* Assign Region
*****;
REGCAT = PUT(XSERVREG,SERVREGF.);

*****
* 1 = Prime Enrollees
*****;
MAJGRP = PUT(1,MAJGRPF.);
SCORE = ADJ1;
SEMEAN = SEMEAN1;
N_OBS = &PREFIX.CNT1;
N_WGT = &PREFIX.WGT1;
OUTPUT;

*****
* 2 = Enrollees with Military PCM
*****;
MAJGRP = PUT(2,MAJGRPF.);
SCORE = ADJ2;
SEMEAN = SEMEAN2;
N_OBS = &PREFIX.CNT2;
N_WGT = &PREFIX.WGT2;
OUTPUT;

*****
* 3 = Enrollees with Civilian PCM
*****;
MAJGRP = PUT(3,MAJGRPF.);
SCORE = ADJ3;
SEMEAN = SEMEAN3;
N_OBS = &PREFIX.CNT3;
N_WGT = &PREFIX.WGT3;
OUTPUT;

*****
* 4 = Non-enrolled Beneficiaries
*****;
MAJGRP = PUT(4,MAJGRPF.);
SCORE = ADJ4;
SEMEAN = SEMEAN4;
N_OBS = &PREFIX.CNT4;
N_WGT = &PREFIX.WGT4;
OUTPUT;

*****
* 5 = Active Duty
*****;
MAJGRP = PUT(5,MAJGRPF.);
SCORE = ADJ5;
SEMEAN = SEMEAN5;

```

```

N_OBS = &PREFIX.CNT5;
N_WGT = &PREFIX.WGT5;
OUTPUT;

*****
* 6 = Active Duty Dependents
*****;
MAJGRP = PUT(6,MAJGRP.F.);
SCORE = ADJ6;
SEMEAN = SEMEAN6;
N_OBS = &PREFIX.CNT6;
N_WGT = &PREFIX.WGT6;
OUTPUT;

*****
* 7 = Retirees and Dependents
*****;
MAJGRP = PUT(7,MAJGRP.F.);
SCORE = ADJ7;
SEMEAN = SEMEAN7;
N_OBS = &PREFIX.CNT7;
N_WGT = &PREFIX.WGT7;
OUTPUT;

*****
* 8 = All Beneficiaries          ALL Beneficiaries
*****;
MAJGRP = PUT(8,MAJGRP.F.);
SCORE = ADJ8;
SEMEAN = SEMEAN8;
N_OBS = &PREFIX.CNT8;
N_WGT = &PREFIX.WGT8;
OUTPUT;

KEEP MAJGRP
    REGION
    REGCAT
    BENTYPE
    BENEFIT
    TIMEPD /*MJS 07/03/03 Added*/
    SCORE
    SEMEAN
    N_OBS
    N_WGT
    SIG
;
RUN;

%MEND;

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(QUESTION=RCOMPOS1,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10029,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10033,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10007,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10010,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10021,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10022,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10023,TYPE=INDIVIDUAL);

```

```

%PROCESS(QUESTION=R_R10024,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 4.
* CUSTOMER SERVICE.
*****;
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10040,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10041,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 5.
* CLAIMS PROCESSING.
*****;
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R10045,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R10046,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(QUESTION=R_R10018,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(QUESTION=R_R10047,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(QUESTION=R_R10027,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
*****;
%PROCESS(QUESTION=R_R10031,TYPE=INDIVIDUAL);

*****
*****
* STACK up all of the files into one final output dataset.
*****;
DATA OUT.LOADCAHQ;
  SET R_R10029
    R_R10033
    R_R10007
    R_R10010
    R_R10021
    R_R10022
    R_R10023
    R_R10024
    R_R10040
    R_R10041
    R_R10045
    R_R10046
    R_R10018
    R_R10047
    R_R10027
    R_R10031
    RCOMPOS1
    RCOMPOS2
    RCOMPOS3
    RCOMPOS4
    RCOMPOS5
  ;
  IF SCORE = . THEN DELETE;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";

```

```
TITLE2 "Program Name: LOADCAHQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHQ.SAS7BDAT - Combined CAHPS Scores Database in WEB layout";

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;
```

I.2.B Q4FY2010\PROGRAMS\PURCHASEDLOADWEB\LOADCAHQ.INC - FORMAT DEFINITIONS FOR CONVERTING THE SCORES DATABASE INTO THE WEB LAYOUT - RUN QUARTERLY.

```

*****
*
* PROGRAM:  LOADCAHQ.INC
* TASK:    QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Format definitions for converting the CAHPS Scores Database
*          into the WEB layout.
*
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.INC.
*
* MODIFIED: 1) 08/13/2001 BY KEITH RATHBUN, Added XSERVAFF format to
*            accommodate the short reports.
*            2) 01/24/2002 BY KEITH RATHBUN, Added BENTYPPF = 1998,1999,2000
*            added catchment composites.
*            3) 04/10/2002 BY KEITH RATHBUN, Added parameters for 2002 survey.
*            4) 04/03/2003 BY MIKE SCOTT, Added parameters for 2003 survey.
*            5) 07/08/2003 BY MIKE SCOTT, Added formats GETNCARE, GETCAREQ,
*            CRTSHELP, HOWWELL, CUSTSERV, CLMSPROC, and PREVCARE.
*            6) 03/22/2004 BY KEITH RATHBUN, Added parameters for 2004 survey.
*            Changed R04031 to be "Wait Less than 15 Minutes For Appointment".
*            7) 05/06/2004 BY MIKE SCOTT, Changed R04031 back to 2003 version of
*            the label ("Wait More than 15 Minutes Past Appointment") so that
*            the Q1 2004 version of the question is consistent with past
*            versions. The label will be changed to the new version ("Waiting
*            in the Doctor's Office") in Makehtmq.sas.
*            8) 02/2006 BY REGINA GRAMSS, Changed date format to fielding dates.
*            9) 03/21/2006 BY KEITH RATHBUN, Added parameters for 2006 survey.
*            10) 08/22/2006 BY JUSTIN OH, Changed SERVREGF format for Overseas.
*            11) 12/15/2006 BY JUSTIN OH, Added parameters for 2007 survey.
*            12) 02/02/2007 BY JUSTIN OH, Added "s" in Healthy Behaviors in VALUE BEN.
*            13) 01/10/2008 BY KEITH RATHBUN, Added parameters for 2008 survey.
*            14) 01/09/2009 BY MIKE RUDACILLE, Added parameters for 2009 survey.
*            14) 01/16/2009 BY MIKE RUDACILLE, Changed CONUS to USA.
*            15) 04/11/2009 by Mike Rudacille - Changed formats to reflect
*            modifications to beneficiary reports necessary for V4
*            16) 12/17/09 by Emma Ernst, Added parameters for 2010 survey.
*
* INPUTS:  No direct input
*
* OUTPUT:  No direct output
*
* NOTES:   1) Under the new contract (8860), the survey year was changed
*            to be based on the year the survey is administered (2002)
*            as opposed to the questioning reference frame (2001). This
*            include file contains variable names for both the 2001
*            survey administration year and the the 2002 administration
*            year surveys.

```

```

*****
;
*****
* FORMAT Definitions
*****;

```

```

PROC FORMAT;
  VALUE MAJGRPF
    1 = "Prime Enrollees           "
    2 = "Enrollees with Military PCM"
    3 = "Enrollees with Civilian PCM"
    4 = "Non-enrolled Beneficiaries "
    5 = "Active Duty               "
    6 = "Active Duty Dependents    "
    7 = "Retirees and Dependents   "
    8 = "All Beneficiaries         "
  ;
  VALUE XSERVAFF
    1 = "ARMY"
    2 = "AIR FORCE"
    3 = "NAVY"
    4 = "OTHER"
  ;
  VALUE REGIONF

```

0 = "USA MHS "
 1 = "North"
 2 = "South"
 3 = "West"
 4 = "Overseas"

;

/*JSO 08/24/2006, Changed Overseas to Service for Europe,Pacific,Latin*/

VALUE SERVREGF

1 = "North Army"
 2 = "North Air Force"
 3 = "North Navy"
 4 = "North Other"
 5 = "South Army"
 6 = "South Air Force"
 7 = "South Navy"
 8 = "South Other"
 9 = "West Army"
 10 = "West Air Force"
 11 = "West Navy"
 12 = "West Other"
 13 = "Europe Army"
 14 = "Europe Air Force"
 15 = "Europe Navy"
 16 = "Europe Other"
 17 = "Pacific Army"
 18 = "Pacific Air Force"
 19 = "Pacific Navy"
 20 = "Pacific Other"
 21 = "Latin America Army"
 22 = "Latin America Air Force"
 23 = "Latin America Navy"
 24 = "Latin America Other"
 25 = "USA ARMY"
 26 = "USA AIR FORCE"
 27 = "USA NAVY"
 28 = "USA OTHER";

/*JSO 08/24/2006, Changed Overseas to Europe,Pacific,Latin*/

VALUE SERVREGO

1 = "North Army"
 2 = "North Air Force"
 3 = "North Navy"
 4 = "North Other"
 5 = "South Army"
 6 = "South Air Force"
 7 = "South Navy"
 8 = "South Other"
 9 = "West Army"
 10 = "West Air Force"
 11 = "West Navy"
 12 = "West Other"
 13 = "Overseas Europe"
 14 = "Overseas Pacific"
 15 = "Overseas Latin America";

VALUE \$BENTYPF

"1998	" = "1998	"
"1999	" = "1999	"
"2000	" = "2000	"
"2001	" = "2001	"
"2002	" = "2002	"
"2003	" = "2003	"
"2004	" = "2004	"
"2005	" = "2005	"
"2006	" = "2006	"
"2007	" = "2007	"
"2008	" = "2008	"
"2000 Q1	" = "January, 2000 to December, 2000	"
"2000 Q2	" = "April, 2000 to March, 2001	"
"2000 Q3	" = "July, 2000 to June, 2001	"
"2000 Q4	" = "October, 2000 to September, 2001	"
"2002 Q1	" = "January, 2001 to December, 2001	"
"2002 Q2	" = "April, 2001 to March, 2002	"

```

"2002 Q3 " = "July, 2001 to June, 2002      "
"2002 Q4 " = "October, 2001 to September, 2002  "
"2003 Q1 " = "January, 2002 to December, 2002  "
"2003 Q2 " = "April, 2002 to March, 2003       "
"2003 Q3 " = "July, 2002 to June, 2003         "
"2003 Q4 " = "October, 2002 to September, 2003  "
"2004 Q1 " = "January, 2003 to December, 2003  "
"2004 Q2 " = "April, 2003 to March, 2004       "
"2004 Q3 " = "Quarter 3, CY 2004                "
"2004 Q4 " = "Quarter 4, CY 2004                "
"2005 Q1 " = "January, 2005                    "
"2005 Q2 " = "April, 2005                      "
"2005 Q3 " = "July, 2005                       "
"2005 Q4 " = "October, 2005                     "
"2006 Q1 " = "January, 2006                     "
"2006 Q2 " = "April, 2006                       "
"2006 Q3 " = "July, 2006                        "
"2006 Q4 " = "October, 2006                     "
"2007 Q1 " = "January, 2007                     "
"2007 Q2 " = "April, 2007                       "
"2007 Q3 " = "July, 2007                        "
"2007 Q4 " = "October, 2007                     "
"2008 Q1 " = "January, 2008                     "
"2008 Q2 " = "April, 2008                       "
"2008 Q3 " = "July, 2008                        "
"2008 Q4 " = "October, 2008                     "
"2009 Q1 " = "January, 2009                     "
"2009 Q2 " = "April, 2009                       "
"2009 Q3 " = "July, 2009                        "
"2009 Q4 " = "October, 2009                     "
"2010 Q1 " = "January, 2010                     "
"2010 Q2 " = "April, 2010                       "
"2010 Q3 " = "July, 2010                        "
"2010 Q4 " = "October, 2010                     "

```

```

/*****
*****/
/*
/* 2001      2002      2003      2004      2005      2006      2007      2008      2009
2010 */
Admin.      Year      Defn.

```

```

/*****
*****/
"R00014 ", "R02016 ", "R03013 ", "R04013", "R05013", "R06013", "R07013", "R08013",
"R09029", "R10029" = "Getting to See a Specialist
"R00028 ", "R02030 ", "R03027 ", "R04028", "R05027", "R06027", "R07027", "R08027",
"R09033", "R10033" = "Getting Treatment
"R00024 ", "R02026 ", "R03023 ", "R04020", "R05019", "R06019", "R07019", "R08019",
"R09007", "R10007" = "Wait for Urgent Care
"R00021 ", "R02023 ", "R03020 ", "R04023", "R05022", "R06022", "R07022", "R08022",
"R09010", "R10010" = "Wait for Routine Visit
"R00033 ", "R02035 ", "R03032 ", "R04034", "R05033", "R06033", "R07033", "R08033",
"R09021", "R10021" = "Listens Carefully
"R00034 ", "R02036 ", "R03033 ", "R04035", "R05034", "R06034", "R07034", "R08034",
"R09022", "R10022" = "Explains so You Can Understand
"R00035 ", "R02037 ", "R03034 ", "R04036", "R05035", "R06035", "R07035", "R08035",
"R09023", "R10023" = "Shows Respect
"R00036 ", "R02038 ", "R03035 ", "R04037", "R05036", "R06036", "R07036", "R08036",
"R09024", "R10024" = "Spends Time with You
"R00048 ", "R02048 ", "R03044 ", "R04045", "R05043", "R06043", "R07043", "R08043",
"R09040", "R10040" = "Getting Information
"R00050 ", "R02050 ", "R03046 ", "R04047", "R05045", "R06045", "R07045", "R08045",
"R09041", "R10041" = "Courteous Customer Service
"R00044 ", "R02044 ", "R03040 ", "R04041", "R05040", "R06040", "R07040", "R08040",
"R09045", "R10045" = "Claims Handled in a Reasonable Time"
"R00045 ", "R02045 ", "R03041 ", "R04042", "R05041", "R06041", "R07041", "R08041",
"R09046", "R10046" = "Claims Handled Correctly
"R00037 ", "R02039 ", "R03036 ", "R04038", "R05037", "R06037", "R07037", "R08037",
"R09018", "R10018" = "Health Care
"R00056 ", "R02056 ", "R03052 ", "R04054", "R05048", "R06048", "R07048", "R08048",
"R09047", "R10047" = "Health Plan
"R00009 ", "R02011 ", "R03011 ", "R04009", "R05009", "R06009", "R07009", "R08009",
"R09027", "R10027" = "Primary Care Manager

```

```

"R00016", "R02018", "R03015", "R04015", "R05015", "R06015", "R07015", "R08015",
"R09031", "R10031" = "Specialty Care"
"PHYSIC" = "Physical"
"MENTAL" = "Mental"

```

```
;
```

```
VALUE $BENEF
```

```

"RCOMPOS1", "CCOMPOS1", "R00014", "R00028",
"R02016", "R02030",
"R03013", "R03027",
"R04013", "R04028",
"R05013", "R05027",
"R06013", "R06027",
"R07013", "R07027",
"R08013", "R08027",
"R09029", "R09033",
"R10029", "R10033"

```

```
= "Getting Needed Care"
```

```

"RCOMPOS2", "CCOMPOS2", "R00024", "R00021",
"R02026", "R02023",
"R03023", "R03020",
"R04020", "R04023",
"R05019", "R05022",
"R06019", "R06022",
"R07019", "R07022",
"R08019", "R08022",
"R09007", "R09010",
"R10007", "R10010"

```

```
= "Getting Care Quickly"
```

```

"RCOMPOS3", "CCOMPOS3", "R00033", "R00034", "R00035", "R00036",
"R02035", "R02036", "R02037", "R02038",
"R03032", "R03033", "R03034", "R03035",
"R04034", "R04035", "R04036", "R04037",
"R05033", "R05034", "R05035", "R05036",
"R06033", "R06034", "R06035", "R06036",
"R07033", "R07034", "R07035", "R07036",
"R08033", "R08034", "R08035", "R08036",
"R09021", "R09022", "R09023", "R09024",
"R10021", "R10022", "R10023", "R10024"

```

```
= "How Well Doctors Communicate"
```

```

"RCOMPOS4", "CCOMPOS4", "R00048", "R00050",
"R02048", "R02050",
"R03044", "R03046",
"R04045", "R04047",
"R05043", "R05045",
"R06043", "R06045",
"R07043", "R07045",
"R08043", "R08045",
"R09040", "R09041",
"R10040", "R10041"

```

```
= "Customer Service"
```

```

"RCOMPOS5", "CCOMPOS5", "R00044", "R00045",
"R02044", "R02045",
"R03040", "R03041",
"R04041", "R04042",
"R05040", "R05041",
"R06040", "R06041",
"R07040", "R07041",
"R08040", "R08041",
"R09045", "R09046",
"R10045", "R10046"

```

```
= "Claims Processing"
```

```

"RCOMPOS11", "COMPOS11", "MENTAL", "PHYS"
= "Health Status"

```

```

/*****
****/
/* Admin. Year Defn.
*/

```



```

/* 2001      2002      2003      2004      2005      2006      2007      2008      2009
2010 */

/*****
****/
"R00037", "R02039", "R03036", "R04038", "R05037", "R06037", "R07037", "R08037", "R09018",
"R10018" = "Health Care
"R00056", "R02056", "R03052", "R04054", "R05048", "R06048", "R07048", "R08048", "R09047",
"R10047" = "Health Plan
"R00009", "R02011", "R03011", "R04009", "R05009", "R06009", "R07009", "R08009", "R09027",
"R10027" = "Primary Care Manager
"R00016", "R02018", "R03015", "R04015", "R05015", "R06015", "R07015", "R08015", "R09031",
"R10031" = "Specialty Care
;
VALUE BEN
/* 0 = 'Total' deleted no longer calculating total 04/2005 RSG ***/
1 = 'Getting Needed Care'
2 = 'Getting Care Quickly'
3 = 'How Well Doctors Communicate'
4 = 'Customer Service'
5 = 'Claims Processing'
6 = 'Health Plan'
7 = 'Health Care'
8 = 'Primary Care Manager'
9 = 'Specialty Care'
10 = 'Preventive Care'
11 = 'Healthy Behaviors';

VALUE MAJOR
1 = "Prime Enrollees "
2 = "Enrollees with Military PCM"
3 = "Enrollees with Civilian PCM"
4 = "Non-enrolled Beneficiaries "
5 = "Active Duty "
6 = "Active Duty Dependents "
7 = "Retirees and Dependents "
8 = "All Beneficiaries ";

VALUE GETNCARE
1 = "Getting to See a Specialist"
2 = "Getting Treatment"
3 = "Composite";

VALUE GETCAREQ
1 = "Wait for Routine Visit"
2 = "Wait for Urgent Care"
3 = "Composite";

VALUE HOWWELL
1 = "Listens Carefully"
2 = "Explains so You Can Understand"
3 = "Shows Respect"
4 = "Spends Time with You"
5 = "Composite";

VALUE CUSTSERV
1 = "Getting Information"
2 = "Courteous Customer Service"
3 = "Composite";

VALUE CLMSPROC
1 = "Claims Handled in a Reasonable Time"
2 = "Claims Handled Correctly"
3 = "Composite";

VALUE PREVCARE
1 = "Mammography"
2 = "Pap Smear"
3 = "Hypertension"
4 = "Prenatal Care"
5 = "Composite";

VALUE SMOKEF
1 = "Non-Smoking Rate"

```

```
2 = "Counselled To Quit"  
3 = "Percent Not Obese"  
4 = "Composite";  
RUN;
```

I.3.A Q1FY2010\PROGRAMS\BENCHMARK\BENCHA01.SAS - EXTRACT ADULT CAHPS QUESTIONS FROM NCBD - RUN QUARTERLY.

```

*****
*
* PROGRAM:  BENCHA01.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Extract Adult CAHPS Questions
*
* WRITTEN: 06/02/2000 BY KEITH RATHBUN
*
* INPUTS:  1) AC2006DB.SD2 - 2006 Adult CAHPS Questions
*
* OUTPUT:  1) BENCHA01.SD2 - 2006 Adult CAHPS Questions Renamed to be
*            consistent with the 2006 MPR DOD Survey.
*
* MODIFIED: 1) 12/19/2000 BY KEITH RATHBUN for Q1 2000 Survey.
*            2) 04/11/2002 BY MIKE SCOTT, Updated variable names for 2002
*            Survey.
*            3) 07/30/2002 BY MIKE SCOTT, Updated to use 2001 NCBD.
*            4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
*            5) 05/06/2003 BY MIKE SCOTT, Updated for 2002 benchmarks.
*            6) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
*            7) 04/16/2004 BY KEITH RATHBUN, Updated to use 2003 NCBD.
*            8) 05/17/2005 BY REGINA GRAMSS, Updated for Q1 2005.
*            9) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
*            Changed variable names to match the 2006 HCSDB survey.
*            Changed CAHPS variable names to match those in 2005 NCBD.
*            10) 02/21/2007 BY JUSTIN OH, Updated for Q1 FY 2007.
*            Changed variable names to match the 2006 HCSDB survey.
*            Changed CAHPS variable names to match those in 2006 NCBD.
*            Changed SREDHIGH variable AC60_05 to AC58_06
*            11) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
*            Changed variable names to match the 2008 HCSDB survey.
*            12) 01/05/2009 BY MIKE RUDACILLE, Updated for Q1 FY 2009.
*            Changed variable names to match the 2009 HCSDB survey.
*            13) April 7, 2009 by Mike Rudacille, changed variable names to reflect
*            modifications to beneficiary reports necessary for V4
*            14) May 5, 2009 by Mike Rudacille, Updated for 2008 benchmarks.
*            15) December 21, 2009 by Emma Ernst for Q1FY2010
*
* NOTES:
*
* 1) This program will generate the input for BENCHA02.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN  "..\..\..\2008AdultChildNCBD\Adult";
LIBNAME OUT "data";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHA01;
  SET IN.AC2008DB (RENAME=(BIRTHYY=YOB));
  FORMAT _ALL_;
  H10019 = AC13_08;
  *****
  * Getting Needed Care
  *****;
  H10029 = AC23_08;
  H10033 = AC27_08;
  *****
  * Getting Care Quickly
  *****;
  H10007 = AC04_08;
  H10010 = AC06_08;
  *****
  * How Well Doctors Communicate
  *****;
  H10021 = AC16_08;
  H10022 = AC15_08;
  H10023 = AC17_08;
  H10024 = AC18_08;

```

```

*****
* Customer Service
*****;
H10040 = AC35_08;
H10041 = AC36_08;
*****
* Claims Processing
*****;
H10045 = AC40_08;
H10046 = AC41_08;
*****
* Health Care Rating
*****;
H10018 = AC12_08;
*****
* Health Plan Rating
*****;
H10047 = AC42_08;
*****
* Personal Doctor Rating
*****;
H10027 = AC21_08;
*****
* Specialist Rating
*****;
H10031 = AC25_08;
*****
* Health Status
*****;
H10063 = AC43_08;
AGEGROUP = AGE; *NEED TO USE USE THIS DIRECTLY (already grouped);
XSEXA = GENDER;
SREDHIGH = AC55_08; /*JSO 02/21/06 chged AC60_05 to AC58_06 */
SRRACEA=AC57A_08;
SRRACEB=AC57B_08;
SRRACEC=AC57C_08;
SRRACED=AC57D_08;
SRRACEE=AC57E_08;
H10071=AC56_08;
if product in (7,9) then model=4; /*MJS 05/06/03 product now numeric*/
if product=3 then model=2; /*coded according to AC FORMATS.SAS*/
if product=1 then model=1;
if product=4 then model=6;
if product=8 then model=5;
if product=2 then model=3;
nproduct=planid+0; /*MJS 05/06/03 was plnid now planid*/

LABEL H10029 = "AC23_08 - Got appointment with a specialist"
H10033 = "AC27_08 - Got necessary care"
H10007 = "AC04_08 - Got urgent care quickly"
H10010 = "AC06_08 - Got routine care quickly"
H10021 = "AC16_08 - Doctors/providers listened carefully"
H10022 = "AC15_08 - Doctors/providers explained things"
H10023 = "AC17_08 - Doctors/providers showed respect"
H10024 = "AC18_08 - Doctors/providers spent enough time"
H10040 = "AC35_08 - Customer service provided needed info"
H10041 = "AC36_08 - Customer services was courteous"
H10045 = "AC40_08 - Claims handled quickly"
H10046 = "AC41_08 - Claims handled correctly"
H10018 = "AC12_08 - Rating of health care"
H10047 = "AC42_08 - Rating of health plan"
H10027 = "AC21_08 - Rating of personal doctor or nurse"
H10031 = "AC25_08 - Rating of specialist seen most often"
H10063 = "AC43_08 - Rating of overall health"
AGEGROUP = "AGE - Imputed adult age"
XSEXA = "GENDER - Gender (equal to AC54_08 or SEX)"
SREDHIGH = "AC55_08 - Highest grade finished" /*JSO 02/21/06 chged AC60_05 to AC58_06
*/
;
KEEP H10029
H10033
H10007
H10010
H10021
H10022
H10023
H10024
H10040
H10041
H10045
H10046
H10018
H10047
H10027
H10031
H10063

```

```
H10022
H10023
H10024
H10040
H10041
H10045
H10046
H10018
H10047
H10027
H10031
H10063
AGEGROUP
XSEXA
SREDHIGH
MODEL
NPRODUCT
DISP
YOB
SRRACEA--SRRACEE
H10071
H10019
;
RUN;

TITLE1 "Extract Adult CAHPS Questions (DoD)";
TITLE2 "Program Name: BENCH01.SAS By Keith Rathbun";
TITLE3 "Program Input: AC2008DB.sas7bdat";
TITLE4 "Program Output: BENCH01.sas7bdat";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES _ALL_ /MISSING LIST;
RUN;
```

I.3.B QIFY2010\PROGRAMS\BENCHMARK\BENCHA02.SAS - RECODE ADULT CAHPS QUESTIONS FROM NCBD TO BE CONSISTENT WITH THE HCSDB - RUN QUARTERLY.

```

*****
*
* PROGRAM:  BENCHA02.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Recode Adult CAHPS Questions
*
* WRITTEN: 06/02/2000 BY KEITH RATHBUN
*
* INPUT:   1) BENCHA01.SD2 - Adult CAHPS Questions Renamed to be
*           consistent with the MPR DOD Survey.
*
* OUTPUT:  1) BENCHA02.SD2 - Recoded Adult CAHPS Questions Renamed
*           to be consistent with the MPR DOD Survey.
*
* MODIFIED: 1) 12/19/2000 BY KEITH RATHBUN for Q1 2000 Survey.
*           2) 04/11/2002 BY MIKE SCOTT, Updated variable names for 2002
*           Survey.
*           3) 07/30/2002 BY MIKE SCOTT, Updated to use 2001 NCBD.
*           4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
*           5) 05/06/2003 BY MIKE SCOTT, Changed labels from _01 to _02.
*           6) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
*           7) April 2004 By Keith Rathbun, Removed reverse coding for
*           H04031. 2004 survey question wording is 'Within 15 minutes'
*           instead of "More than 15 Minutes". Updated CAHPS variable
*           labels to be consistent with 2003 NCBD.
*           8) 06/2005 By Regina Gramss, Updated codes with 2005 variable
*           names/labels.
*           9) 03/24/2006 BY KEITH RATHBUN, Updated for 2006 survey.
*           Changed CAHPS variable names to match those in 2005 NCBD.
*           10) 01/10/2008 BY KEITH RATHBUN, Updated for 2008 survey.
*           11) 01/05/2009 BY MIKE RUDACILLE, Updated for 2009 survey.
*           12) April 10, 2009 by Mike Rudacille, changed variable names to reflect
*           modifications to beneficiary reports necessary for V4
*           13) December 21, 2009 by Emma Ernst, updated for Q1FY2010
*
* NOTES:
*
* 1) Run this program after BENCHA01.SAS.
* 2) This program will generate the input for BENCHA03.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN      "data";
LIBNAME OUT     "data";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHA02(rename=(nproduct=product));
  SET IN.BENCHA01;

*****
* Recode variables with Never, Sometimes, Usually and Always.
* Recode Never & Sometimes (1 & 2) to 1.
* Recode Usually (3) to 2.
* Recode Always (4) to 3.
*****;

IF H1007 = 1      THEN R1007 = 1;
ELSE IF H1007 = 2 THEN R1007 = 1;
ELSE IF H1007 = 3 THEN R1007 = 2;
ELSE IF H1007 = 4 THEN R1007 = 3;
ELSE IF H1007 < 0 THEN R1007 = .;

IF H10010 = 1    THEN R10010 = 1;
ELSE IF H10010 = 2 THEN R10010 = 1;
ELSE IF H10010 = 3 THEN R10010 = 2;
ELSE IF H10010 = 4 THEN R10010 = 3;
ELSE IF H10010 < 0 THEN R10010 = .;

IF H10021 = 1    THEN R10021 = 1;

```

```
ELSE IF H10021 = 2 THEN R10021 = 1;
ELSE IF H10021 = 3 THEN R10021 = 2;
ELSE IF H10021 = 4 THEN R10021 = 3;
ELSE IF H10021 < 0 THEN R10021 = .;
```

```
IF H10022 = 1 THEN R10022 = 1;
ELSE IF H10022 = 2 THEN R10022 = 1;
ELSE IF H10022 = 3 THEN R10022 = 2;
ELSE IF H10022 = 4 THEN R10022 = 3;
ELSE IF H10022 < 0 THEN R10022 = .;
```

```
IF H10023 = 1 THEN R10023 = 1;
ELSE IF H10023 = 2 THEN R10023 = 1;
ELSE IF H10023 = 3 THEN R10023 = 2;
ELSE IF H10023 = 4 THEN R10023 = 3;
ELSE IF H10023 < 0 THEN R10023 = .;
```

```
IF H10024 = 1 THEN R10024 = 1;
ELSE IF H10024 = 2 THEN R10024 = 1;
ELSE IF H10024 = 3 THEN R10024 = 2;
ELSE IF H10024 = 4 THEN R10024 = 3;
ELSE IF H10024 < 0 THEN R10024 = .;
```

```
IF H10029 = 1 THEN R10029 = 1;
ELSE IF H10029 = 2 THEN R10029 = 1;
ELSE IF H10029 = 3 THEN R10029 = 2;
ELSE IF H10029 = 4 THEN R10029 = 3;
ELSE IF H10029 < 0 THEN R10029 = .;
```

```
IF H10033 = 1 THEN R10033 = 1;
ELSE IF H10033 = 2 THEN R10033 = 1;
ELSE IF H10033 = 3 THEN R10033 = 2;
ELSE IF H10033 = 4 THEN R10033 = 3;
ELSE IF H10033 < 0 THEN R10033 = .;
```

```
IF H10040 = 1 THEN R10040 = 1;
ELSE IF H10040 = 2 THEN R10040 = 1;
ELSE IF H10040 = 3 THEN R10040 = 2;
ELSE IF H10040 = 4 THEN R10040 = 3;
ELSE IF H10040 < 0 THEN R10040 = .;
```

```
IF H10041 = 1 THEN R10041 = 1;
ELSE IF H10041 = 2 THEN R10041 = 1;
ELSE IF H10041 = 3 THEN R10041 = 2;
ELSE IF H10041 = 4 THEN R10041 = 3;
ELSE IF H10041 < 0 THEN R10041 = .;
```

```
IF H10045 = 1 THEN R10045 = 1;
ELSE IF H10045 = 2 THEN R10045 = 1;
ELSE IF H10045 = 3 THEN R10045 = 2;
ELSE IF H10045 = 4 THEN R10045 = 3;
ELSE IF H10045 < 0 THEN R10045 = .;
```

```
IF H10046 = 1 THEN R10046 = 1;
ELSE IF H10046 = 2 THEN R10046 = 1;
ELSE IF H10046 = 3 THEN R10046 = 2;
ELSE IF H10046 = 4 THEN R10046 = 3;
ELSE IF H10046 < 0 THEN R10046 = .;
```

```
IF H10063 = 1 THEN R10063 = 5;
ELSE IF H10063 = 2 THEN R10063 = 4;
ELSE IF H10063 = 3 THEN R10063 = 3;
ELSE IF H10063 = 4 THEN R10063 = 2;
ELSE IF H10063 = 5 THEN R10063 = 1;
ELSE IF H10063>5|H10063<1 THEN R10063 = .;
```

```
*****
* Recode variables to one missing condition "."
* This also makes all the "H000xx" to "R000xx".
*****;
R10027 = H10027; IF R10027 < 0|R10027>10 THEN R10027 = .;
R10031 = H10031; IF R10031 < 0|R10031>10 THEN R10031 = .;
R10018 = H10018; IF R10018 < 0|R10018>10 THEN R10018 = .;
R10047 = H10047; IF R10047 < 0|R10047>10 THEN R10047 = .;
```

```

R10071 = H10071; IF R10071<0 THEN R10071 = .;

LABEL R10007 = "AC04_08 - Got urgent care quickly"
R10010 = "AC06_08 - Got routine care quickly"
R10021 = "AC16_08 - Doctors/providers listened carefully"
R10022 = "AC15_08 - Doctors/providers explained things"
R10023 = "AC17_08 - Doctors/providers showed respect"
R10024 = "AC18_08 - Doctors/providers spent enough time"
R10029 = "AC23_08 - Got appointment with a specialist"
R10033 = "AC27_08 - Got necessary care"
R10040 = "AC35_08 - Customer service provided needed info"
R10041 = "AC36_08 - Customer services was courteous"
R10045 = "AC40_08 - Claims handled quickly"
R10046 = "AC41_08 - Claims handled correctly"
R10018 = "AC12_08 - Rating of health care"
R10027 = "AC21_08 - Rating of personal doctor or nurse"
R10031 = "AC25_08 - Rating of specialist seen most often"
R10047 = "AC42_08 - Rating of health plan"
R10063 = "AC43_08 - Rating of overall health"

nPRODUCT = "Product ID - Unique plan ID";
;
drop product;
RUN;

TITLE1 "Recode Adult CAHPS Questions (6244-410)";
TITLE2 "Program Name: BENCHA02.SAS By Keith Rathbun";
TITLE3 "Program Input: BENCHA01.SAS7BDAT";
TITLE4 "Program Output: BENCHA02.SAS7BDAT";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES AGEGROUP
XSEXA
SREDHIGH
MODEL
R10007 * H10007
R10010 * H10010
R10021 * H10021
R10022 * H10022
R10023 * H10023
R10024 * H10024
R10029 * H10029
R10033 * H10033
R10040 * H10040
R10041 * H10041
R10045 * H10045
R10046 * H10046
R10018 * H10018
R10027 * H10027
R10031 * H10031
R10047 * H10047
R10063 * H10063
/MISSING LIST;
RUN;

```


I.3.C Q4FY2010\PROGRAMS\PURCHASEDBENCHMARK\BENCHA03.SAS - CALCULATE CAHPS BENCHMARK DATA FOR HCSDB - RUN QUARTERLY.

```
*****
*
* PROGRAM:  BENCHA03.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Adjust Adult CAHPS Benchmarks
*
* WRITTEN: June 2000 BY ERIC SCHONE
*
* INPUTS:  1) BENCHA02.SD2 - 2005 Adult CAHPS Questions Renamed to be
*           consistent with the 2006 MPR DOD Survey.
*           2) GROUP8.SD2 - CAHPS Group8 (all beneficiaries) Dataset
*
* OUTPUTS: 1) Benchmark Composite Scores Data Sets
*
* MODIFIED: 1) Nov 2000 BY ERIC SCHONE - Output permanent datasets with
*           scores and standard errors and process the rest of the
*           composites and ratings.
*           2) Dec 2000 BY KEITH RATHBUN - Update variable names for
*           Q1 2000 Survey.
*           3) Jan 2002 BY KEITH RATHBUN - Updated to run under SAS
*           version 8 (changed INTERCEP to INTERCEPT).
*           4) Apr 2002 BY MIKE SCOTT - Updated variable names for Q1
*           2002 Survey.
*           5) Jul 2002 BY MIKE SCOTT - Changed R00077 to R04075, since
*           H02077 (health status) is back and was renamed to R04075
*           in HSC022_1.sd2.
*           6) Mar 2003 BY MIKE SCOTT - Updated for 2003 survey.
*           7) May 2003 BY MIKE SCOTT - Changed ac03_01 to ac03_02.
*           8) Jun 2003 BY MIKE SCOTT - Updated for Q2 2003.
*           9) Oct 2003 BY MIKE SCOTT - Updated for Q3 2003.
*           10) Mar 2004 BY MIKE SCOTT - Updated for Q1 2004.
*           11) April 2004 BY KEITH RATHBUN - Updated to use the CAHPS 2003
*           variable ac03_03.
*           12) June 2004 BY REGINA GRAMSS - Updated to use for Q2 2004
*           13) Sept 2004 BY REGINA GRAMSS - Update for Q3 2004
*           14) May 2005 BY REGINA GRAMSS - Updated for Q1 2005
*           15) Jul 2005 BY REGINA GRAMSS - Updated for Q2 2005
*           16) Oct 2005 BY REGINA GRAMSS - Updated for Q3 2005
*           17) Dec 2005 BY REGINA GRAMSS - Updated for Q4 2005
*           18) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
*           Changed variable names to match the 2006 HCSDB survey.
*           19) 07/12/2006 by Justin Oh - Updated for Q3 FY 2006.
*           20) 10/03/2006 by Justin Oh - Changed libname in2 for Q4FY2006.
*           Change the INCLUDE path to CONVERT.sas file.
*           21) 12/18/2006 by Justin Oh - Changed libname in2 for Q1FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           22) 04/05/2007 by Justin Oh - Changed libname in2 for Q2FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           23) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
*           ReportCards OR PurchasedReportCards.
*           24) 04/05/2007 by Keith Rathbun - Changed libname in2 for Q3FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           25) 09/04/2007 by Justin Oh - Changed libname in2 for Q4FY2007.
*           Change the INCLUDE path to CONVERT.sas file.
*           26) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
*           Changed variable names to match the 2008 HCSDB survey.
*           27) 04/11/2008 by Justin Oh - Changed libname in2 for Q2FY2008.
*           Change the INCLUDE path to CONVERT.sas file.
*           28) 06/13/2008 by Keith Rathbun - Changed libname in2 for Q3FY2008.
*           Change the INCLUDE path to CONVERT.sas file.
*           29) April 10, 2009 by Mike Rudacille, changed variable names to reflect
*           modifications to beneficiary reports necessary for V4
*           30) Sept 30, 2009 by Mike Rudacille - Changed libname in2 for Q4FY2009.
*           Change the INCLUDE path to CONVERT.sas file.
*           31) December 17, 2009 by Emma Ernst- Changed libname in2 for Q1FY2010 and
*           changed variables names.
*           32) March 2, 2010 by Mike Rudacille - Changed libname in2 for Q2FY2010.
*           Change the INCLUDE path to CONVERT.sas file.
*           33) March 30, 2010 by Mike Rudacille - Changed libname in to get
*           benchmark data from Q2FY2010 (2009 NCBDB benchmark data).
```

```

*          34) June 19, 2010 by Mike Rudacille - Changed libname in2 for Q3FY2010.
*          35) August 28, 2010 by Mike Rudacille - Changed libname in2 for Q4FY2010.
*
* NOTES:
*
* 1) Run this program after BENCHA01.SAS and BENCHA02.SAS.
* 2) This program will generate the input for BENCHA04.SAS.
*
*****
* Assign data libraries and options
*****;

/** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ***/
%LET RCTYPE = PurchasedReportCards;

libname in          "..\..\..\Q2FY2010\Programs\Benchmark\Data"; /*Use BENCHA02.sas7bdat from
Q2fy2010*/
libname in2         "..\&RCTYPE\CAHPS_AdultQ4FY2010\Data";
libname out         "Data";
LIBNAME LIBRARY    "..\..\DATA\AFINAL\FMTLIB";

%let wgt=FWRWT;

OPTIONS MLOGIC MPRINT NOCENTER MERGENOBY=WARN LS=132 PS=79;

%macro comb(f,t,q,l);

proc summary data=&f;
  var &t;
  where &q~=. ;
  weight &wgt;
  output out=temp mean=&t;
run;

data temp;
  set temp;
  array old &t;
  call symput('z',left(dim(old)));
run;

data temp(drop=_type_ &t);
  set temp;
  array old &t;
  array new var1-var&z;
  do i=1 to &z;
    new(i)=old(i);
  end;
run;

data &q._&l;
  merge temp c_&q;
  array coeffs &t;
  array means var1-var&z;
  DO I = 1 TO DIM(COEFFS);
    IF COEFFS(I) = . THEN COEFFS(I) = 0;
    IF MEANS(I) = . THEN MEANS(I) = 0;
    ADJUST + ( COEFFS(I) * MEANS(I) );
  END;

  ADJUST = ADJUST + intercept;
  &q._&l=adjust;

run;

%mend comb;

%macro adjust(x,y);

proc summary data=setup;
  where &x>. ;
  class product;

```

```

    output out=count;
run;

data count count2(rename=(freq=denom));
  set count;
  if _type_=0 then output count2;
  else output count;
run;

data count(keep=pweight product);
  if _n_=1 then set count2;
  set count;
  pweight=denom/freq;
run;

data temp;
  merge count  setup; by product;

run;
proc summary data=temp;
  where &x>.;
  weight pweight;
  var &y;
  output out=temp2 mean=&y;
  data temp2;
  set temp2;
  array old &y;
  call symput('z',left(dim(old)));
run;
data temp2(keep=var1-var&z);
  set temp2;
  array old &y;
  array new var1-var&z;
  do i=1 to &z;
    new(i)=old(i);
  end;
run;
data temp;
set temp;
if _n_=1 then set temp2;
  array old &y;
  array new var1-var&z;
  do i=1 to &z;
    if old(i)=. then
      old(i)=new(i);
  end;
run;
proc reg data=temp outest=c_&x noprint;
  model &x=&y;
  weight pweight;
  output out=r_&x r=r_&x;
run;

proc sort data=r_&x; by product;
run;

PROC DESCRIPT DATA=r_&x DESIGN=STRWR NOPRINT;
  WEIGHT pweight;
  SETENV DECWIDTH=4;
  NEST product / missunit;
  VAR R_&x;
  OUTPUT SEMEAN / TABLECELL=DEFAULT
  FILENAME=s_&x;
RUN;

data s_&x(rename=(semean=s_&x));
  set s_&x(keep=semean);
  %do i=1 %to 8;
    %if &i=8 %then %do;

    data group8;
      set in2.group5 in2.group6 in2.group7;
    run;

```

```

    %comb(group8,&y,&x,8);
%end;
%else %do;
    %comb(in2.group&i,&y,&x,&i);
%end;
%end;

%mend adjust;

/* adjust all the variables */

%macro comp(compno,a,b,c,d);
%if &a~= %then %do;
    %let n=r_&a;
    %let m=s_&a;
    %do i=1 %to 8;
        %let p&i=&a._&i;
    %end;
    %let grpnum=1;
    proc sort data=r_&a;
        by mpid;
    run;
%end;
%if &b~= %then %do;
    %let n=%str(&n r_&b);
    %let m=%str(&m s_&b);
    %do i=1 %to 8;
        %let p&i=%str(&&p&i &b._&i);
    %end;
    %let grpnum=2;
    proc sort data=r_&b;
        by mpid;
    run;
%end;
%if &c~= %then %do;
    proc sort data=r_&c;
        by mpid;
    run;
    %let grpnum=3;
    %let n=%str(&n r_&c);
    %do i=1 %to 8;
        %let p&i=%str(&&p&i &c._&i);
    %end;
    %let m=%str(&m s_&c); %end;

%if &d~= %then %do;
    proc sort data=r_&d;
        by mpid;
    run;
    %let grpnum=4;
    %let n=%str(&n r_&d);
    %do i=1 %to 8;
        %let p&i=%str(&&p&i &d._&i);
    %end;

    %let m=%str(&m s_&d);
%end;

data infile;
merge &n;
by mpid;
run;

proc corr outp=outf noprint;
var &n;
weight pweight;
run;

data final;
if _n_=1 then do;
    %if &a~= %then %do;
        set s_&a;
    %end;

```

```

%if &b~= %then %do;
  set s_&b;
%end;
%if &c~= %then %do;
  set s_&c;
%end;
%if &d~= %then %do;
  set s_&d;
%end;
end;
set outf;
call symput('s' || compress(_n_) , substr(_name_, 3));
where _type_='CORR';
run;

data final;
set final;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
  %do i=1 %to &grpnum;
    if _name_="r_&&s&i" then
      sde=sde+r_val(i)*s_&&s&i*s_val(i);
    %end;
  end;
run;

data sefin&compno;
set final end=last;
tv+sde;
if last then do;
  sde=(tv**.5)/&grpnum;
  output;
end;

%do i=1 %to 8;
  data temp(keep=&&p&i);
  merge &&p&i;
  run;

data output;
set &&p&i;
totadj+adjust;
run;

data output(keep=totadj);
set output end=last;
if last then do;
  totadj=totadj/&grpnum;
  output;
end;
run;

data out&compno._&i;
merge output temp;
run;

data out.comp&compno._&i;
merge out&compno._&i
      sefin&compno;
run;

%end;

%mend comp;

/* create composites */
proc sort data=in.bencha02 out=setup;
  by product;
run;
data setup;
set setup;
if ^(model in (2,4));

```

```

if disp in ('M10','I10') ;   ***KRR 04/19/04 Changed _02 to _03;
data setup;
  set setup; by product;
  mpid=_n_;
  if agegroup ne . then do;
    age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;

    if agegroup=1 then age1824=1;
    else if agegroup=2 then age2534=1;
    else if agegroup=3 then age3544=1;
    else if agegroup=4 then age4554=1;
    else if agegroup=5 then age5564=1;
    else if agegroup=6 then age6574=1;
  end;
  if agegroup<6;
run;
%INCLUDE "..\PURCHASEDREPORTCARDS\CAHPS_AdultQ4FY2010\CONVERT.SAS";

%CONT2(DSN=SETUP, NUM=4, Y=R10018 R10047 R10027 R10031);
%CONT3(DSN=SETUP, NUM=12, Y=R10007 R10010 R10029 R10033
      R10021 R10022 R10023 R10024
      R10040 R10041 R10045 R10046);

/* GETTING NEEDED CARE */
%adjust(R10029,age1824 age2534 age3544 age4554 R10063);
%adjust(R10033,age1824 age2534 age3544 age4554 R10063);
%comp(1,R10029,R10033);

/* GETTING NEEDED CARE QUICKLY */
%adjust(R10007,age1824 age2534 age3544 age4554 R10063);
%adjust(R10010,age1824 age2534 age3544 age4554 R10063);
%comp(2,R10007,R10010);

/* HOW WELL DOCTORS COMMUNICATE */
%adjust(R10021,age1824 age2534 age3544 age4554 R10063);
%adjust(R10022,age1824 age2534 age3544 age4554 R10063);
%adjust(R10023,age1824 age2534 age3544 age4554 R10063);
%adjust(R10024,age1824 age2534 age3544 age4554 R10063);
%comp(3,R10021,R10022,R10023,R10024);

/* CUSTOMER SERVICE */
%adjust(R10040,age1824 age2534 age3544 age4554 R10063);
%adjust(R10041,age1824 age2534 age3544 age4554 R10063);
%comp(4,R10040,R10041);

/* CLAIMS PROCESSING */
%adjust(R10045,age1824 age2534 age3544 age4554 R10063);
%adjust(R10046,age1824 age2534 age3544 age4554 R10063);
%comp(5,R10045,R10046);

/* RATING ALL HEALTH CARE: 0 - 10 */
%adjust(R10018,age1824 age2534 age3544 age4554 R10063);
%comp(6,R10018);

/* RATING OF HEALTH PLAN: 0 - 10 */
%adjust(R10047,age1824 age2534 age3544 age4554 R10063);
%comp(7,R10047);

/* RATING OF PERSONAL DR: 0 - 10 */
%adjust(R10027,age1824 age2534 age3544 age4554 R10063);
%comp(8,R10027);

/* SPECIALTY CARE */
%adjust(R10031,age1824 age2534 age3544 age4554 R10063);
%comp(9,R10031);

```

I.3.D Q4FY2010\PROGRAMS\PURCHASEDBENCHMARK\BENCHA04.SAS - CONVERT THE BENCHMARK SCORES DATABASE INTO THE WEB LAYOUT - RUN QUARTERLY.

```

*****
*
* PROGRAM:  BENCHA04.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the Benchmark Scores Database into the WEB layout
*
* WRITTEN: 06/01/2000 BY KEITH RATHBUN
*
* INPUTS:  1) Benchmark data sets with adjusted scores
*           (COMPn_i.SD2 where n = composite number and i = group number)
*
* OUTPUT:  1) BENCHA04.SD2 - Combined Benchmark Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*             and composite data sets
*
* MODIFIED: 1) Dec 2000 by Keith Rathbun: Updated variable names for
*             Q1 2000 Survey. For the quarterly survey group 8 (all benes)
*             is being used as the benchmark for all groups (1-8). Thus,
*             this group is copied and output to each of the other 7 groups.
*             2) 01/23/2002 by Mike Scott: Updated variable names to be consistent
*             with 2000 survey.
*             4) 04/15/2002 by Mike Scott - Updated variable names for
*             Q1 2002 Survey.
*             5) 03/21/2003 by Mike Scott - Updated for 2003 survey.
*             6) 06/26/2003 by Mike Scott - Updated for Q2 2003.
*             7) 07/03/2003 by Mike Scott - Added TIMEPD variable to be set to the period
*             or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
*             setting to 'Composite'.
*             8) 07/18/2003 by Mike Scott - Added TIMEPD to FREQ.
*             9) 10/21/2003 by Mike Scott - Updated for Q3 2003.
*             10) 03/23/2004 by Mike Scott - Updated for Q1 2004.
*             11) 06/15/2004 by Regina Gramss - Updated for Q2 2004.
*             12) 09/2004 by Regina Gramss - Updated for Q3 2004.
*             13) 05/2005 by Regina Gramss - Updated for Q1 2005.
*             14) 10/2005 by Regina Gramss - Updated for Q3 2005.
*             15) 03/24/2006 by Keith Rathbun - Updated for Q2 FY 2006.
*             Added MACRO loop to process the 8 groups.
*             16) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3.
*             17) 12/18/2007 by Justin Oh - Updated BENTYPE composite year to 2006 Q4.
*             18) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1.
*             19) 04/05/2007 by Justin Oh - Updated LIBNAME IN2 to be used for purchase RC
programs.
*             20) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3.
*             21) 01/10/2008 by Keith Rathbun - Updated for Q1 FY 2008.
*             22) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1.
*             23) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2.
*             24) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3.
*             25) 04/10/2009 by Mike Rudacille - Changed variable names to reflect
*             modifications to beneficiary reports necessary for V4
*             26) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3.
*             27) 12/17/2009 by Emma Ernst - Updated for Q1 2010
*             28) 03/02/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q1.
*             29) 06/19/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q2.
*             30) 08/28/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q3.
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*    - BENCHA01.SAS - Extract Benchmark variables
*    - BENCHA02.SAS - Recode Benchmark variables
*    - BENCHA03.SAS - Construct Scores and SEMEAN datasets
*
* 2) The output file (BENCHA04.SAS7BDAT) will be run through the
*    MAKEHTML.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN "DATA";

```

```
LIBNAME IN2 "qpredtest";
LIBNAME OUT "DATA";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
```

```
OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER;
```

```
*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\PURCHASEDLOADWEB\LOADCAHQ.INC";
```

```
*****
*****
*
```

```
* Process Macro Input Parameters:
```

```
*
* 1) CNUM = Composite or rating variable number (1-10)
* 2) GNUM = Group number (1-8)
* 3) NVAR = Number of variables in the composite
* 4) VARS = List of individual variables for composite
* 5) SE = List of individual standard error variables
*****;
```

```
%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
*****
```

```
* Assign value for BENTYPE composite year
*****;
%LET YEAR = "2010 Q3"; * Note that this is based on Calendar Year here;
```

```
*****
* Convert benchmark scores datasets into WEB layout.
*****;
%IF &CNUM<6 %THEN %DO;
```

```
DATA INP;
SET IN2.COMP&CNUM;
WHERE X=&GNUM;
```

```
DATA INP;
SET INP IN2.PROJERR&GNUM;
RENAME SE=SEX;
```

```
RUN;
%END;
%ELSE %DO;
```

```
DATA INP;
SET IN2.PROJERR&GNUM;
RENAME SE=SEX;
```

```
RUN;
%END;
```

```
DATA COMP&CNUM._&Gnum;
SET INP;
IF _N_=1 THEN
SET IN.COMP&CNUM._&GNUM;
LENGTH MAJGRP $30;
LENGTH REGION $25;
LENGTH REGCAT $26;
LENGTH BENTYPE $50;
LENGTH BENEFIT $34;
LENGTH TIMEPD $35; ***MJS 07/03/03 Added line;
```

```
*****
* For now, assign SIG = 0
*****;
SIG = 0;
```

```
*****
* Assign major group
*****;
```



```

MAJGRP = PUT(&Gnum,MAJGRPF.);

*****
* Assign Region and Regcat
*****;
REGION = "Benchmark";
REGCAT = "Benchmark";

*****
* Assign benefit and benefit type
*****;
IF      &CNUM = 1 THEN BENEFIT = "Getting Needed Care";
ELSE IF &CNUM = 2 THEN BENEFIT = "Getting Care Quickly";
ELSE IF &CNUM = 3 THEN BENEFIT = "How Well Doctors Communicate";
ELSE IF &CNUM = 4 THEN BENEFIT = "Customer Service";
ELSE IF &CNUM = 5 THEN BENEFIT = "Claims Processing";
ELSE IF &CNUM = 6 THEN BENEFIT = "Health Care";
ELSE IF &CNUM = 7 THEN BENEFIT = "Health Plan";
ELSE IF &CNUM = 8 THEN BENEFIT = "Primary Care Manager";
ELSE IF &CNUM = 9 THEN BENEFIT = "Specialty Care";

BENTYPE = "Composite";   ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
TIMEPD = PUT(&YEAR,$BENTYPF.);   ***MJS 07/03/03 Added;
IF &CNUM<6 THEN DO;
  IF X=&GNUM THEN DO;
*****
* Assign composite score and SEMEAN
*****;
  SCORE = TOTADJ;
  SEMEAN = SQRT(SDE**2+SESX**2);

*****
* Output composite score record for each REGION
*****;
  OUTPUT;
  END;
  END;
*****
* Now, output the individual score records
*****;
IF &NVAR GT 1|&CNUM>5 THEN DO;
  ARRAY ITEMS &VARS;
  ARRAY SE    &SE;
  LENGTH NAME $8;
  DO I = 1 TO DIM(ITEMS); DROP I;
    CALL VNAME(ITEMS(I),NAME);
    NAME = SUBSTR(NAME,1,6);
    SCORE = ITEMS(I);
    SEMEAN = SQRT(SE(I)**2+SESX**2);
    IF &NVAR GT 1 THEN
      BENTYPE = PUT(NAME,$BENTYPF.);
      TIMEPD = PUT(&YEAR,$BENTYPF.);   ***MJS 07/03/03 Added;
      IF COMPRESS(UPCASE(NAME))=COMPRESS(UPCASE(VAR)) THEN OUTPUT;
    END;
  END;
END;

KEEP MAJGRP
REGION
REGCAT
BENTYPE
BENEFIT
TIMEPD /*MJS 07/03/03 Added*/
SEMEAN
SCORE
SIG
;
RUN;

%MEND;

*****
*****
* Process each of the 8 Groups.
*****

```

```

*****;
%MACRO DOIT;
%DO I = 1 %TO 8;
*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=&I, NVAR=2, VARS=R10029_&I R10033_&I,
        SE=S_R10029 S_R10033);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=&I, NVAR=2, VARS=R10007_&I R10010_&I,
        SE=S_R10007 S_R10010);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=&I, NVAR=4, VARS=R10021_&I R10022_&I R10023_&I R10024_&I,
        SE=S_R10021 S_R10022 S_R10023 S_R10024);

*****
* COMPOSITE # 4.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=4, GNUM=&I, NVAR=2, VARS=R10040_&I R10041_&I,
        SE=S_R10040 S_R10041);

*****
* COMPOSITE # 5.
* CLAIMS PROCESSING.
*****;
%PROCESS(CNUM=5, GNUM=&I, NVAR=2, VARS=R10045_&I R10046_&I,
        SE=S_R10045 S_R10046);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=&I, NVAR=1, VARS=R10018_&I, SE=S_R10018);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R10047_&I, SE=S_R10047);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R10027_&I, SE=S_R10027);

*****
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R10031_&I, SE=S_R10031);
%END;
%MEND DOIT;
%DOIT;

*****
*****
* STACK up all of the files into one final output dataset.
*****
*****;
DATA OUT.BENCHA04;
  SET COMP1_1 COMP1_2 COMP1_3 COMP1_4 COMP1_5 COMP1_6 COMP1_7 COMP1_8
      COMP2_1 COMP2_2 COMP2_3 COMP2_4 COMP2_5 COMP2_6 COMP2_7 COMP2_8
      COMP3_1 COMP3_2 COMP3_3 COMP3_4 COMP3_5 COMP3_6 COMP3_7 COMP3_8

```

```

COMP4_1 COMP4_2 COMP4_3 COMP4_4 COMP4_5 COMP4_6 COMP4_7 COMP4_8
COMP5_1 COMP5_2 COMP5_3 COMP5_4 COMP5_5 COMP5_6 COMP5_7 COMP5_8
COMP6_1 COMP6_2 COMP6_3 COMP6_4 COMP6_5 COMP6_6 COMP6_7 COMP6_8
COMP7_1 COMP7_2 COMP7_3 COMP7_4 COMP7_5 COMP7_6 COMP7_7 COMP7_8
COMP8_1 COMP8_2 COMP8_3 COMP8_4 COMP8_5 COMP8_6 COMP8_7 COMP8_8
COMP9_1 COMP9_2 COMP9_3 COMP9_4 COMP9_5 COMP9_6 COMP9_7 COMP9_8
;
IF SCORE = . THEN DELETE;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: BENCHA04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHA04.SAS7BDAT - Combined Benchmark Scores Database in WEB layout";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES TIMEPD BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;

```

I.4.A Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\MPR_ADULTQ4FY2010\PRVCOMPQ.SAS - CALCULATE PREVENTIVE CARE COMPOSITE SCORES - RUN QUARTERLY.

```

*****
* Project: DoD Reporting and Analysis 6077-410
* Program: PRVCOMPQ.SAS
* Author: Chris Rankin
* Date: 12/22/2000
* Modified: 4/19/2001 By Keith Rathbun: Restrict population to
* xins_cov in(1,2,3,6). Use POSTSTR instead of
* adj_cell.
* Modified: 10/25/01 By Daniele Beahm: Because no poststratification
* was done for q3 2000, changed POSTSTR back to ADJ_CELL
* 04/09/02 modified macros the first three macros to create
* temporary datasets (instead of writing permanent datasets)
* 07/15/02 By Mike Scott: Changed HCS021 to HCS022 for Q2 2002.
* 01/12/03 By Mike Scott: Changed ADJ_CELL to COM_SAMP.
* 03/21/03 By Mike Scott: Changed HCS024 to HCS031 for Q2 2002.
* 04/01/03 By Mike Scott: Replaced HP_FLU with HP_CHOL.
* 04/30/03 By Mike Scott: Changed COM_SAMP to ADJ_CELL. Changed
* CMPNUM1 from 4 to 5 and CMPNUM2 from 4 to 3.
* 06/13/03 By Eric Schone. Changed composite mean & std err calculations
* to use weights from 2000 input data.
* 07/23/03 By Mike Scott: Removed ..\PROGRAMS\ from INCLUDE.
* 10/21/03 By Mike Scott: Updated for Q3 2003.
* 01/07/04 By Mike Scott: Updated for Q4 2003.
* 02/02/04 By Mike Scott: Set PRVVAR6, PRVVAR7, and PRVVAR8 in DATA NORMDATA
* to H04023, H04020, and H04031.
* 03/24/04 By Mike Scott: Updated for Q1 2004.
* 04/09/04 By Keith Rathbun: Added Service Affiliation variables to
* accomodate the consumer watch.
* 06/22/04 By Regina Gramss: Updated for Q2 2004.
* 09/2004 By Regina Gramss: Updated for Q3 2004, to use XTNEXREG
* vs. XREGION
* 01/2005 By Regina Gramss: Updated to create "Last conus_q" for
* Q4 2004, replace XTNEXREG with XSERVREG
* 04/2005 By Regina Gramss: Updated for Q1 2005 (update 2004 field names)
* 07/2005 By Regina Gramss: updated for Q2 2005
* 10/2005 By Regina Gramss: Updated for Q3 2005
* 12/2005 By Regina Gramss: Updated for Q4 2005
* 03/24/2006 By Keith Rathbun: Updated for Q2 FY 2006. Changed reference
* to ADJ_CELL in 2006 data to be STRATUM.
* 07/2006 By Justin Oh: updated for Q2 FY 2006
* 08/22/2006 By Justin Oh
* Changed XSERVREG for Overseas
* Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
* IF XINS_COV IN (3) THEN GROUP4 = 1
* Since only XINS_COV IN (1,2,3,6) is kept.
* Create XOCONUS for 2005 data.
* Added XREGION in the keep statement for NORMDATA.
* 10/04/2006 By Justin Oh Updated %LET INDATA and YRDATA.
* 11/15/2006 By Justin Oh Added FIELDAGE in 4 keep statements
* 12/22/2006 By Justin Oh Updated %LET INDATA and YRDATA HCS071_1.
* 04/05/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS072_1.
* 04/05/2007 By Justin Oh Added conditions for RC types
* ReportCards OR PurchasedReportCards.
* 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
* both Norm and Quarter datasets.
* 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
* Groups 1,3, and 4 for new reservists logic.
* 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
* Groups All, 4, 5, and 6.
* 09/04/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS074_1.
* 01/10/2008 By Keith Rathbun, Updated %LET INDATA and YRDATA HCS081_1.
* Also changed H07 variable names to be H08 to match 2008 survey
* 04/11/2008 By Justin Oh Updated %LET INDATA and YRDATA HCS082_1.
* 06/13/2008 By Keith Rathbun Updated %LET INDATA and YRDATA HCS083_1.
* 04/20/2009 By Mike Rudacille Changed RCTYPE and certain variable names for
* transition to V4 questionnaire.
* 06/22/2009 By Keith Rathbun Updated %LET INDATA and YRDATA HCS093_1.
* 09/30/2009 By Mike Rudacille Updated %LET INDATA and YRDATA HCS094_1.
* 12/17/2009 By Emma Ernst Updated %LET INDATA and YRDATA HCS101_1.
* Also changed H09 variables names to be H10 to match 2010 survey

```

```

*           03/02/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS102_1.
*           03/25/2010 By Mike Rudacille Changed HCS102_1 to HCS102_2.
*           Changed because HCS102_1 no longer contains FIELDAGE.
*           06/19/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS103_2.
*           08/28/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS104_2.
*
* Purpose:   Calculate MPR Preventive Care Composites
* Input:    HCSyyq_1.sas7bdat
* Output:   RFINAL.sas7bdat
*           CFINAL.sas7bdat
*           MFINAL.sas7bdat
*           SFINAL.sas7bdat
*
* Include
* Files:    LOADCAHPQ.INC
* Notes:    Next program is Loadmprq.sas
*
*           ***CHECK PARAMETER ASSIGNMENTS***
*****;

OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 MLOGIC MPRINT
        NOFMterr COMPRESS=YES;

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ****/
%LET RCTYPE = PurchasedReportCards;

LIBNAME IN           "..\..\..\DATA\AFINAL";
LIBNAME INNORM v612  "..\..\..\..\2005\DATA";
LIBNAME OUT          ".";
LIBNAME LIBRARY      "..\..\..\DATA\AFINAL\FMTLIB";

%LET WGT=FWRWT;
%LET NORMWGT = CFWT;
%LET NORMDAT = HCS05A_1;

%LET DEBUG=Y;        /** Set to Y for Debug print of datasets **/
%LET INDATA=HCS104_2;

%LET YRDATA=HCS104_2;

/***** The following parameters are used in the Variance *****/
/***** calculation macro for region and catchment area *****/

%LET GRPNUM=8;       /** number of groups          **/
%LET COMPNUM=7;      /** number of variables      **/ /* RSG - 04/2005 changed from 8 to 7
(eliminate cholesterol*/
%LET REGNUM=15;      /** number of regions          **/ /* RSG - 01/2005 CHANGED TO FIT THE 16
CATEGORIES OF XSERVREG */
/* JSO 08/24/2006 (16 TO 15) Changed
Overseas Regions*/
%LET CATCHNUM=9999; /** number of catchment areas **/

%LET CMPNUM1=4;      /** number of variables in first composite **/ /*RSG 04/2005 Changed
CMPNUM1 from 5 to 4*/
%LET CMPNUM2=3;      /** number of variables in second composite **/ /*MJS 04/30/03 Changed
CMPNUM2 from 4 to 3*/

%LET COMPCNT=2;      /** number of composites          **/

**** set up benchmarks for preventive services ;
**** note -- these are the hp 2000 goals ;

%LET GOALVAR1= .90;  /** HP Goal for prenatal care          **/
%LET GOALVAR2= .70;  /** HP Goal for Mammography              **/
%LET GOALVAR3= .90;  /** HP Goal for Papsmear                 **/
%LET GOALVAR4= .95;  /** HP Goal for Blood Pressure check     **/
%LET GOALVAR5= .90;  /** access goals                          **/ /*04/2005 - RSG: DELETED
CHOLESTEROLE GOAL*/
%LET GOALVAR6= .90;
%LET GOALVAR7= .98;

%INCLUDE "..\..\PURCHASEDLOADWEB\LOADCAHQ.INC";

/**** note -- output all data to a single dataset for macro */

```

```

/**** call                                     */
/**** MACROS are no longer called for catchment areas      */

/* 08/24/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY '..\..\..\2005\Data\fmtlib';

DATA NORMDATA(KEEP=XTNEXREG XSERVREG &WGT PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
              DENV1-DENV&COMPNUM XSERVAFF FIELDAGE);
              /* 11/15/2006 JSO Added FIELDAGE in the keep statement */

      set INNORM.&NORMDAT(KEEP=MPRID XINS_COV HP_BP HP_MAMOG HP_PAP HP_PRNTL XTNEXREG
                        XENR_PCM XBNFGRP ENBGSMP &NORMWGT ADJ_CELL DBENCAT
                        H05022 H05019 H05030 H05007 H05006 SERVAFF XREGION FIELDAGE);
              /* 08/24/2006 JSO Added XREGION in the keep statement to get XOCONUS */
              /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
              /* 05/10/2007 JSO Added H05006, DBENCAT in the keep statement */

*****
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
*****;

/*RSG 02/2005 Added codes to define XTNEXREG & XSERVAFF*/

      IF SERVAFF = 'A' THEN XSERVAFF = 1;           *Army;
      ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;     *Air Force;
      ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;     *Navy;
      ELSE XSERVAFF = 4;                           *Other/unknown;

      IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

      IF XTNEXREG = . THEN DELETE;

      IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

      NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
                        /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
      IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
      IF DBENCAT IN('GRD','IGR') AND H05006 = 3 THEN DO;
          NXNS_COV = 3;
          XENR_PCM = .;
      END;

      PRVVAR1=HP_PRNTL; /* prenatal care */
      PRVVAR2=HP_MAMOG; /* mammography */
      PRVVAR3=HP_PAP; /* papsmear */
      PRVVAR4=HP_BP; /* blood pressure */
      PRVVAR5=H05022; /* access var 1 */
      PRVVAR6=H05019; /* access var 2 */
      PRVVAR7=H05030; /* access var 3 */

/**** set up numerator and denominator for proportions ****/

      ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
      ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
      ARRAY DENOM(*) DENV1-DENV&COMPNUM;

      DO I = 1 TO &COMPNUM;
          IF I LE &CMPNUM1 THEN DO;
              IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
              ELSE NUMER(I)=0;
              IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
          END;
          ELSE IF I GT &CMPNUM1 THEN DO;
              IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
              ELSE NUMER(I)=0;
              IF PRVVAR(I) > 0 THEN DENOM(I)=1;
          END;
      END;
      DROP I;
      DENV4=1;

```

```

/* 08/22/2006, JSO Create XOCONUS for 2005 data */
IF XREGION=13 THEN XOCONUS=1;
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;

/*RSG 02/2005 Added codes to define XSERVREG CACSMPL*/

IF XTNEEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN XSERVREG = 13;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 14;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 15;
END;

RENAME &NORMWGT = &WGT;
run;

/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY "..\..\..\Data\afinal\fmtlib";

DATA &YRDATA(KEEP=BGROUP MHS USA XSERVAFF CACSMPL &WGT TMP_CELL
  PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
  DENV1-DENV&COMPNUM XTNEEXREG XSERVREG FIELDAGE);
  /* 11/15/2006 JSO Added FIELDAGE in the keep statement */

  SET IN.&INDATA(KEEP=XINS_COV HP_BP XTNEEXREG HP_MAMOG HP_PAP HP_PRNTL /*RSG 04/2005 DELETE
HP_CHOL*/
  XREGION SERVAFF XENR_PCM XBNFGRP ENBGSMPLE &WGT CACSMPL
  STRATUM H10010 H10007 H10004 H10003 D_HEALTH FIELDAGE DBENCAT);
  /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
  /* 05/10/2007 JSO Added H07006, DBENCAT in the keep statement */

*****
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
*****;
IF SERVAFF = 'A' THEN XSERVAFF = 1; *Army;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; *Navy;
ELSE XSERVAFF = 4; *Other/unknown;

CELLP = 1;
LENGTH TMP_CELL 8;
TMP_CELL = STRATUM; /* Make STRATUM a numeric variable */

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 05/14/2007 added for reservists logic*/

```

```

                /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
    NXNS_COV = 3;
    XENR_PCM = .;
END;

PRVVAR1=HP_PRNTL;          /** prenatal care **/
PRVVAR2=HP_MAMOG;         /** mammography **/
PRVVAR3=HP_PAP;           /** papsmear **/
PRVVAR4=HP_BP;            /** blood pressure **/
/*RSG 04/2005 - delete cholesterol, renumber PRVVAR below*/
PRVVAR5=H10010;           /** access var 1 **/
PRVVAR6=H10007;           /** access var 2 **/
/* MER temporary workaround 06/30/09 */
PRVVAR7=2;

/**** set up numerator and denominator for proportions ****/

ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
ARRAY DENOM(*) DENV1-DENV&COMPNUM;

DO I = 1 TO &COMPNUM;
    IF I LE &CMPNUM1 THEN DO;
        IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
        ELSE NUMER(I)=0;
        IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
    END;
    ELSE IF I GT &CMPNUM1 THEN DO;
        IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
        ELSE NUMER(I)=0;
        IF PRVVAR(I) > 0 THEN DENOM(I)=1;
    END;
END;
DROP I;
DENV4=1;

MHS= 1; /* set up dummy for MHS-- include all observations */

/* 08/22/2006, JSO Create XOCONUS for 2005 data */
IF XREGION=13 THEN XOCONUS=1;
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;

IF XTNEXREG = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 1;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
    ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 5;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
    ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 9;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
    ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
    IF XOCONUS = 1 THEN XSERVREG = 13;
    ELSE IF XOCONUS = 2 THEN XSERVREG = 14;
    ELSE IF XOCONUS = 3 THEN XSERVREG = 15;
END;

*****
* Assign indicator of CONUS based on XTNEXREG. CONUS stands for

```



```

* Contential United States it but includes both Alaska and Hawaii.
* 1/16/09 Changed CONUS to USA.
*****;
IF XTNEXREG IN (1,2,3) THEN USA=1; /*RSG 01/2005 OVERALL
CONUS*/

ELSE IF XTNEXREG = 4 THEN USA=2;

* Prime enrollees *;

IF (NXNS_COV IN (1,2,6) AND H10004>=2) THEN DO;
  BGROUP=1;
  OUTPUT;
END;

* Enrollees with military PCMs */ /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  (XENR_PCM IN (1,2,6) AND H10004>=2) THEN DO;
  BGROUP=2;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  (XENR_PCM IN (1,2) AND H10004>=2) THEN DO;
  BGROUP=2;
  OUTPUT;
END;

* Enrollees with civilian PCMs */ /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  (XENR_PCM IN (3,7) AND H10004>=2) THEN DO;
  BGROUP=3;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  ((XENR_PCM IN (3) AND H10004>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added
9*/
  BGROUP=3;
  OUTPUT;
END;

* Nonenrollees *;

IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
  BGROUP=4; /*JSO 07/30/2007, Added 9*/
  OUTPUT;
END;

* Active duty *;

IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
  BGROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;

* Active duty dependents *;

IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
  BGROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;

* Retirees *;

IF XBNFGRP IN (3,4) THEN DO;
  BGROUP=7;
  OUTPUT;
END;

* All beneficiaries *;

  BGROUP=8;
  OUTPUT;
RUN;

```

```

DATA HCSDB;
SET &YRDATA;
RUN;

*****
*** First, calculate standard errors and create      ***
*** a file for each analytical unit                 ***
*****;

PROC SORT DATA=HCSDB; BY TMP_CELL;
RUN;

*****
**** Sudaan macro to calculate standard errors      ****
**** there are three output datasets created        ****
**** (XTNEXREG, XSERVREG, MHS, XSERVAFF)           ****
**** Note: 7/10/2000 use CONUS for MHS              ****
**** Note: there are 8 variables and 8 groups       ****
**** Note: 1/16/09 Changed CONUS to USA            ****
*****;

%MACRO A_SUDAAN(TABLEVAR);

*** set the number of levels in the proc descript ***;
*** for region or catchment                        ***;

%IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
  %LET ENDNUM=4;
  %LET PREF=S;          /** dataset prefix for service affiliation data **/
%END;
%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
  %LET ENDNUM=&REGNUM;
  %LET PREF=R;          /** dataset prefix for region data **/
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %LET PREF=C;          /** dataset prefix for catchment
area data **/

%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
  %LET ENDNUM=4;          /** RSG 01/2005 Change level of conus to 4 **/
  %LET PREF=M;
%END;

%DO I=1 %TO &GRPNUM;          /** 8 groups **/

  %DO J=1 %TO &COMPNUM;          /** 7 variables **/

    DATA INDATA&I.&J(KEEP=&WGT MHS USA XSERVAFF XTNEXREG XSERVREG CACSMPL
      XSERVAFF NUMV&J DENV&J TMP_CELL);

      SET HCSDB;
      WHERE XSERVREG > 0 AND BGROUP=&I AND DENV&J > 0;
      %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
        IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE; /*RSG 01/2005 Delete Conus greater
than 4 which are not conus */
      %END;
      %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
        IF USA NE 1 THEN DELETE;
      %END;
      %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
        IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
      %END;
    RUN;

*** Calculate values for regions, catchment areas ****;

%IF %UPCASE(&TABLEVAR) NE USA %THEN %DO;

  PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
  WEIGHT &WGT;
  SETENV DECWIDTH=4;
  NEST TMP_CELL / MISSUNIT;
  VAR NUMV&J;
  TABLES &TABLEVAR;
  SUBGROUP &TABLEVAR;

```

```

        LEVELS &ENDNUM;
        OUTPUT SEMEAN/ TABLECELL=DEFAULT
        FILENAME=&PREF.GRP&I.V&J;
    RUN;

%END;
%ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;

**** No tables, levels, or subgroups needed ****;

        PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;
        SETENV DECWIDTH=4;
        NEST TMP_CELL / MISSUNIT;
        VAR NUMV&J;
        OUTPUT SEMEAN/ TABLECELL=DEFAULT
        FILENAME=&PREF.GRP&I.V&J;
    RUN;

%END;

**** first, put all variables into one dataset for each group ****;

        DATA &PREF.GRP&I.V&J;
        SET &PREF.GRP&I.V&J;
        IF SEMEAN NE .;
        MHS=1;
        %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
            USA=1;
        %END;
    RUN;

%IF &J=1 %THEN %DO;
        DATA &PREF.SEGRP&I;
        SET &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
        GROUP=&I;
        IF SEMEAN NE .;
        RENAME SEMEAN = SERRV&J;
    RUN;
%END;
%ELSE %DO;
        DATA &PREF.SEGRP&I;
        MERGE &PREF.SEGRP&I &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
        BY &TABLEVAR;
        GROUP=&I;
        RENAME SEMEAN = SERRV&J;
    RUN;
%END;
%END;

**** Put all data into one dataset ****
**** Note: changed output dataset ****
**** to include group ****;

%IF &I=1 %THEN %DO;

        DATA &PREF.SERR;
        SET &PREF.SEGRP&I;
        KEEP GROUP &TABLEVAR SERRV1-SERRV&COMPNUM;
    RUN;
%END;
%ELSE %DO;

        DATA &PREF.SERR;
        SET &PREF.SERR
        &PREF.SEGRP&I;
    RUN;
%END;

***** DEBUG PRINT *****;

%IF &DEBUG=Y %THEN %DO;
    %IF &I=&GRPNUM AND &PREF=R %THEN %DO;
        PROC PRINT DATA=&PREF.SERR;

```

```

        VAR &TABLEVAR GROUP SERRV1-SERRV&COMPNUM;
    RUN;
    %END;
%END;

%END;

%MEND A_SUDAAN;

%A_SUDAAN (USA);
%A_SUDAAN (XSERVAFF);
%A_SUDAAN (XSERVREG);
%A_SUDAAN (XTNEXREG);

*****
*** Next, calculate correlation coefficients          ***
*** and create a file for each analytical unit      ***
*****;

%MACRO GETCORR(BYVAR);

%IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
%ELSE %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;

PROC SORT DATA=HCSDB; BY &BYVAR;
RUN;

%DO I = 1 %TO &GRPNUM;

    PROC CORR NOPRINT DATA=HCSDB OUTP=&PREF.CORRC&I;
        %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %DO;
            WHERE BGROUP=&I AND 1 <= XSERVAFF <= 4;    /** RSG 0/2005 Change conus values to keep
to be between 1-4 **/
        %END;
        %IF %UPCASE(&BYVAR)=USA %THEN %DO;
            WHERE BGROUP=&I AND USA = 1;
        %END;
        %ELSE %DO;
            WHERE BGROUP=&I;
        %END;
        BY &BYVAR;
        VAR PRVVAR1-PRVVAR&COMPNUM;
        WITH PRVVAR1-PRVVAR&COMPNUM;
        WEIGHT &WGT;
    RUN;

    DATA &PREF.CORRC&I;
        SET &PREF.CORRC&I;
        WHERE _TYPE_="CORR";
        GROUP=&I;
        ARRAY OLD PRVVAR1-PRVVAR&COMPNUM;
        ARRAY NEW CORV1-CORV&COMPNUM;
        DO J = 1 TO &COMPNUM;
            NEW(J)=OLD(J);
        END;
        DROP J PRVVAR1-PRVVAR&COMPNUM;
    RUN;

    %IF &I=1 %THEN %DO;

        DATA &PREF.CORRC;
            SET &PREF.CORRC&I;
        RUN;

    %END;
    %ELSE %DO;

        DATA &PREF.CORRC;
            SET &PREF.CORRC
            &PREF.CORRC&I;
        RUN;

```

```

%END;
%IF &DEBUG=Y %THEN %DO;
  %IF &I=&COMPNUM AND &PREF=R %THEN %DO;
    PROC PRINT DATA=&PREF.CORRC;
      WHERE GROUP=1;
    RUN;
  %END;
%END;
%END;

*** Flatten dataset(for each region, condense matrix to one row) ***;

%DO K=1 %TO &COMPNUM;

  DATA &PREF.CORR&K;
  SET &PREF.CORRC;
  WHERE _NAME_ = "PRVVAR&K";
  ARRAY CORR (&COMPNUM) CORV1-CORV&COMPNUM;
  ARRAY CORR&K (&COMPNUM) CORV&K.1-CORV&K.&COMPNUM;
  DO L=1 TO &COMPNUM;
    CORR&K(L)=CORR(L);
  END;
  KEEP GROUP &BYVAR CORV&K.1-CORV&K.&COMPNUM;
  RUN;
%IF &K=1 %THEN %DO;
  DATA &PREF.CORR;
  SET &PREF.CORR&K;
  RUN;
%END;
%ELSE %DO;
  DATA &PREF.CORR;
  MERGE &PREF.CORR(IN=IN_1) &PREF.CORR&K(IN=IN_2);
  BY GROUP &BYVAR;
  RUN;
%END;
%IF &DEBUG=Y %THEN %DO;
  %IF &PREF=R %THEN %DO;
    PROC PRINT DATA=&PREF.CORR;
      WHERE GROUP=1;
    RUN;
  %END;
%END;
%END;

%MEND GETCORR;

%GETCORR(USA);
%GETCORR(XSERVAFF);
%GETCORR(XSERVREG);
%GETCORR(XTNEXREG);

*****
*** Macro to derive composites for each          *****
*** beneficiary group, level                    *****
*** output one dataset for each group          *****
*****;

%MACRO GETPROP(BYVAR);

  %LET START = %EVAL(&CMPNUM1+1);

  %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
  %ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
  %ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
  %ELSE %IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;

  PROC MEANS NWAY NOPRINT DATA=HCSDB;
  CLASS BGROUP &BYVAR;
  VAR NUMV1-NUMV&COMPNUM
  DENV1-DENV&COMPNUM;
  WEIGHT &WGT;
  OUTPUT OUT= &PREF.CMPSUM(DROP = _TYPE_)
  SUM = ;

```

```

RUN;
PROC MEANS NWAY NOPRINT DATA=normdata;
* CLASS &BYVAR;
VAR
    DENV1-DENV&COMPNUM;
WEIGHT &wgt.;
OUTPUT OUT= &PREF.norms(DROP = _TYPE_)
SUM = nrmv1-nrmv&compnum;
RUN;

PROC MEANS NWAY NOPRINT DATA=HCSDB;
CLASS BGROUP &BYVAR;
VAR DENV1-DENV&COMPNUM;
OUTPUT OUT=&PREF.DGFR(DROP=_TYPE_ _FREQ_)
SUM= NOBSV1-NOBSV&COMPNUM;
RUN;

data &pref.cmpsum;

if _n_=1 then set &pref.norms;
set &pref.cmpsum;
proc sort data=&pref.cmpsum; by bgroup &byvar;
DATA &PREF.CMPSUM;
MERGE &PREF.CMPSUM(RENAME=( _FREQ_=N_OBS))
&PREF.DGFR;
BY BGROUP &BYVAR;
%IF &PREF=M %THEN %DO; /** added 7/10/2000 **/
WHERE 1 <= XSERVAFF <= 4; /** RSG 01/2005 Change conus values to keep to be
between 1-4 **/
%END;
%ELSE %IF &PREF=C %THEN %DO;
WHERE USA = 1;
%END;

**** set up group variable **;

RENAME BGROUP=GROUP;;

**** set up proportions, and composites **;

ARRAY PROPORT PROPV1-PROPV&COMPNUM;
ARRAY NUMER NUMV1-NUMV&COMPNUM;
ARRAY DENOM DENV1-DENV&COMPNUM;
array norm nrmv1-nrmv&compnum;

DO J=1 TO DIM(PROPORT);
PROPORT(J) = NUMER(J)/DENOM(J);
END;
DROP J;

**** composites **;

** added goalvars to datastep, 5/30/2000 ;
** taken out of temporary array for variance calculations;
** and used, kept as variables ;

GOALVAR1=&GOALVAR1;
GOALVAR2=&GOALVAR2;
GOALVAR3=&GOALVAR3;
GOALVAR4=&GOALVAR4;
GOALVAR5=&GOALVAR5;
GOALVAR6=&GOALVAR6;
GOALVAR7=&GOALVAR7;
/*RSG 04/2005 - delete goal8 since chol eliminated*/

** the weight for preventive service is defined as the ;
** proportion of the denominator for that service to the ;
;
** composite denominator ;
** healthy people 2000 goals -- used as benchmarks ;

ARRAY SVCWGT(&COMPNUM) WGTV1-WGTV&COMPNUM;
ARRAY BMARK(&COMPNUM) GOALVAR1-GOALVAR&COMPNUM;

```

```

ARRAY WGTBMARK(&COMPNUM) WTDV1-WTDV&COMPNUM;
array comp(&compnum) cmpv1-cmpv&compnum;
cpden1=sum(of nrmv1-nrmv&compnum1);
cpden2=sum(of nrmv&start-nrmv&compnum);
DO K = 1 TO &COMPNUM;
  IF K < &START THEN SVCWGT(K)= norm(K)/CPDEN1;
  ELSE SVCWGT(K) = norm(K)/CPDEN2;
  WGTBMARK(K) = SVCWGT(K)*BMARK(K);
  comp(k)=svcwt(k)*proport(k);
END;
DROP K;
CPBMK1=SUM(OF WTDV1-WTDV&COMPNUM1);
CPBMK2=SUM(OF WTDV&START-WTDV&COMPNUM);
comp1=sum(of cmpv1-cmpv&compnum1);
comp2=sum(of cmpv&start-cmpv&compnum);
DROP WGTV1-WGTV&COMPNUM WTDV1-WTDV&COMPNUM
      NUMV1-NUMV&COMPNUM;
RUN;

%IF &DEBUG=Y AND &PREF=R %THEN %DO;
  PROC PRINT DATA=&PREF.CMPSUM; /* print out final dataset */
  RUN; /* for region to check */
%END;

%MEND GETPROP;

%GETPROP(USA);
%GETPROP(XSERVAFF);
%GETprop(XSERVREG);
%GETPROP(XTNEXREG);

*****
** since MHS benchmarks will be displayed ****
** set up adjustment factor to apply to ****
** each analytical unit's composite benchmarks ****
*****;

*****
*** Macro to merge 3 datasets for each *****
*** called by analytical unit *****
*** output final dataset for *****
*** XSERVAFF, XSERVREG, XTNEXREG, MHS (USA) *****
*****;

PROC FORMAT; /*RSG 02/2005 - hardcoded in prog to have caps vs format in loadcahq.inc*/
  VALUE REGIONF
    0 = "USA MHS "
    1 = "NORTH"
    2 = "SOUTH"
    3 = "WEST"
    4 = "OVERSEAS"
  ;
%MACRO GETSIG(BYVAR);

%LET START = %EVAL(&CMPNUM1+1);
%LET NEXT = %EVAL(&CMPNUM1+2);

%IF &BYVAR=XSERVREG %THEN %LET PREF=R;
%ELSE %IF &BYVAR=USA %THEN %LET PREF=C;
%ELSE %IF &BYVAR=XSERVAFF %THEN %LET PREF=M;
%ELSE %IF &BYVAR=XTNEXREG %THEN %LET PREF=S;

DATA OUT.&PREF.FINAL(KEEP= MAJGRP REGION REGCAT GOALVAR1-GOALVAR&COMPNUM
      SIGV1-SIGV&COMPNUM SCORV1-SCORV&COMPNUM
      CPSIG1-CPSIG&COMPNT CP1SE CP2SE
      CSCOR1-CSCOR&COMPNT CPBMK1-CPBMK&COMPNT
      SERRV1-SERRV&COMPNUM CP1SE CP2SE
      COMP1 COMP2 PROPV1-PROPV&COMPNUM
      DFSCR1-DFSCR&COMPNUM DF_CP1 DF_CP2
      NOBSV1-NOBSV&COMPNUM CPOBS1-CPOBS&COMPNT
      DENV1-DENV&COMPNUM CPDEN1-CPDEN&COMPNT);

```

```

FORMAT MAJGRP $30. REGION $25. REGCAT $26.;
MERGE &PREF.CMPSUM(IN=IN_PROP) &PREF.CORR
&PREF.SERR;
BY GROUP &BYVAR;
IF IN_PROP;
%DO Z=1 %TO &COMPNT;

    CSCOR&Z=COMP&Z.*100;

%END;
** MAJGRP -- text field for group **;
IF GROUP=1 THEN MAJGRP="Prime Enrollees ";
ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
ELSE IF GROUP=5 THEN MAJGRP="Active Duty ";
ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents ";
ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents ";
ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries ";

**** REGION AND REGCAT SETUP **;
%IF &PREF=S %THEN %DO;
    REGCAT=PUT(XTNEXREG,REGIONF.);
    REGION=PUT(XTNEXREG,REGIONF.);
%END;
%else %IF &PREF=C %THEN %DO;
    REGION="USA MHS";
    REGCAT="USA MHS";
%END;
%ELSE %IF &PREF=R %THEN %DO;
    REGION=PUT(XSERVREG, SERVREGO.);
    REGCAT=PUT(XSERVREG, SERVREGO.);
%END;
%ELSE %IF &PREF=M %THEN %DO;
    grouping **/
    REGION=PUT(XSERVAFF,XSERVAFF.);
    REGCAT=PUT(XSERVAFF,XSERVAFF.);
%END;
    /** RSG 1/2005 Add codes for service

**** setup t statistics, degrees of freedom **;
ARRAY TSTAT{&COMPNUM} T_V1-T_V&COMPNUM;
ARRAY BMARK{&COMPNUM} GOALVAR1-GOALVAR&COMPNUM;
ARRAY STNDERR{&COMPNUM} SERRV1-SERRV&COMPNUM;
ARRAY SERRSQR{&COMPNUM} SESQV1-SESQV&COMPNUM;
ARRAY DEGF{&COMPNUM} DFSCR1-DFSCR&COMPNUM;
ARRAY DENOM{&COMPNUM} DENV1-DENV&COMPNUM;
ARRAY PROPORT{&COMPNUM} PROPV1-PROPV&COMPNUM;
ARRAY SCORE{&COMPNUM} SCORV1-SCORV&COMPNUM;
ARRAY PVALUE{&COMPNUM} PVALV1-PVALV&COMPNUM;
ARRAY SIG{&COMPNUM} SIGV1-SIGV&COMPNUM;
ARRAY NOBS{&COMPNUM} NOBSV1-NOBSV&COMPNUM;
array norm{&compnum} nrmv1-nrmv&compnum;

** get the item variance, t-statistics, df, p-values **;
** and whether significant **;
DO I=1 TO &COMPNUM;
    SERRSQR{I}=STNDERR{I}**2; /* Item variance */
    SCORE{I}=PROPORT{I}*100; /* Score (prop. * 100) */
    IF STNDERR{I} > 0 THEN TSTAT{I}=(PROPORT{I}-BMARK{I})/STNDERR{I};
    ELSE TSTAT{I}=.;
    DEGF{I}=NOBS{I}-1;
    PVALUE{I}=(1-PROBT(ABS(TSTAT{I}),DEGF{I}))*2;
    IF PVALUE{I} GE .05 THEN SIG{I}=0;
    ELSE IF PVALUE{I} < .05 THEN DO;
        IF PROPORT{I} > BMARK{I} THEN SIG{I}=1;
        IF PROPORT{I} < BMARK{I} THEN SIG{I}=-1;
    END;
END;
DROP I;

** multiply each item pair std. errors and correlation coefficients **;
** preventive care composite **;
ARRAY SEwC1{&CMPNUM1} SEwV1-SEwV&CMPNUM1;

```



```

ARRAY SERRC1{&CMPNUM1} SERRV1-SERRV&CMPNUM1;
%DO J = 1 %TO &CMPNUM1;
  ARRAY SMEAN&J{&CMPNUM1} SEMV&J.1-SEMV&J.&CMPNUM1;
  ARRAY CORVAR&J{&CMPNUM1} CORV&J.1-CORV&J.&CMPNUM1;
  DO K=1 TO &CMPNUM1;
    SMEAN&J{K}=SERRV&J*SERRC1{K}*CORVAR&J{K}*norm{K}*nrmV&J;
  END;
  SEMV&J.&J=0;
  sewv&j= (nrmV&j**2)*SESQV&j;/** don't count in final standard error calculation **/
%END;
DROP K;
** multiply each item pair std. errors and correlation coefficients **;
** access to care composite **;

ARRAY SERRC2{&CMPNUM2} SERRV&START-SERRV&COMPNUM;
%DO L = &START %TO &COMPNUM;
  ARRAY SMEAN&L{&CMPNUM2} SEMV&L.&START-SEMV&L.&COMPNUM;
  ARRAY CORVAR&L{&CMPNUM2} CORV&L.&START-CORV&L.&COMPNUM;
  DO M=1 TO &CMPNUM2;
    SMEAN&L{M}=SERRV&L*SERRC2{M}*CORVAR&L{M};
  END;
  SEMV&L.&L=0; /** don't coun't in final standard error calculation **/
%END;
DROP M;
** calculate composite t-statistic, pvalue, and whether significant **;
** for composites **;
%DO P=1 %TO &COMPNT;
  %IF &P=1 %THEN %DO;
    ** composite standard error comprised of two parts **;
    CP&P.SE1=SUM(OF SEwV1-SEwV&CMPNUM1);
    CP&P.SE2=SUM(OF SEMV11-SEMV&CMPNUM1.&CMPNUM1.);
    cobs&p=sum(of nobsv1-nobsv&cmpnum1);
  %END;
  %ELSE %DO;
    CP&P.SE1=SUM(OF SESQV&START-SESQV&COMPNUM);
    CP&P.SE2=SUM(OF SEMV&START.&START.-SEMV&COMPNUM.&COMPNUM.);
    cobs&p=sum(of nobsv&start-nobsv&compnum);
  %END;
  ** add the two parts of the composite standard error **;
  ** calculate the composite t statistics and p-values **;
  ** determine whether differences are sigificant **;

  CP&P.SE=SQRT(CP&P.SE2+CP&P.SE1)/CPden&P;
  IF CP&P.SE > 0 THEN CP_T&P.=(COMP&P.-CPBMK&P.)/CP&P.SE;
  ELSE CP_T&P.= .;
  DF_CP&P.=CPOBS&P. - 1;
  CP_P&P.=(1-PROBT(ABS(CP_T&P.),DF_CP&P.))*2;
  IF CP_P&P GE .05 THEN CPSIG&P=0;
  ELSE IF CP_P&P < .05 THEN DO;
    IF COMP&P. > CPBMK&P THEN CPSIG&P= 1;
    ELSE IF COMP&P. < CPBMK&P THEN CPSIG&P=-1;
  END;
%END;

  OUTPUT OUT.&PREF.FINAL;
RUN;

%MEND GETSIG;

%GETSIG(USA);
%GETSIG(XTNEXREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVAFF);

```

I.4.B Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\MPR_ADULTQ4FY2010\SMOKING_BMISAS - CALCULATES HEALTHY BEHAVIOR COMPOSITE SCORES - RUN QUARTERLY.

```

*****
*
* Project:   DoD Reporting and Analysis 6077-410
* Program:   SMOKING_BMI.SAS
* Purpose:   Calculate Smoking Rate and Smoking Cessation
*           for each region-service affiliation and
*           conus-service affiliation groups.
*
* Date:      1/31/2005
* Author:    Regina Gramss
*
* Modified:  1) 04/2005 By Regina Gramss, Updated for Q1 2005.
*           2) 12/2005 By Regina Gramss, Updated for Q4 2005.
*           3) 01/2006 By Regina Gramss - Updated for 2005 annual data. Normalize
*           with 2005 data and not 2000. Standardize using age/sex and MPCSMPL
*           (military personnel category). Update smoking cessation
*           calculation with new formula to correspond more to HEDIS. Use new
*           weight (CFWT) and use STRATUM as TMP_CELL.
*           4) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
*           5) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
*           6) 08/24/2006 By Justin Oh, REGNUM changed from 16 to 24.
*           Changed XSERVREG for Overseas
*           Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
*           IF XINS_COV IN (3) THEN GROUP4 = 1
*           Since only XINS_COV IN (1,2,3,6) is kept.
*           Create XOCONUS for 2005 data.
*           Added/Moved LIBRARY Libname to use both Quarter/Annual Formats.
*           7) 10/04/2006 By Justin Oh, Updated %LET DSN and CURRENT.
*           8) 12/22/2006 By Justin Oh, Updated %LET DSN HCS071_1 and CURRENT October, 2006.
*           9) 02/02/2007 By Justin Oh, Added "s" to Healthy Behaviors
*           10) 04/05/2007 By Justin Oh, Updated %LET DSN HCS072_1 and CURRENT January, 2007.
*           11) 04/05/2007 By Justin Oh, Added conditions for RC types
*           ReportCards OR PurchasedReportCards.
*           12) 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
*           both Norm and Quarter datasets.
*           13) 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
*           Groups 1,3, and 4 for new reservists logic.
*           14) 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
*           Groups All, 4, 5, and 6.
*           15) 09/04/2007 By Justin Oh, Updated %LET DSN HCS074_1 and CURRENT July, 2007.
*           16) 01/10/2008 By Keith Rathbun, Updated %LET DSN HCS081_1 and CURRENT October,
2007.
*           Also changed H07 variable names to be H08 to match 2008 survey.
*           17) 04/11/2008 By Justin Oh, Updated %LET DSN HCS082_1 and CURRENT January, 2008.
*           18) 06/13/2008 By Keith Rathbun, Updated %LET DSN HCS083_1 and CURRENT April, 2008.
*           19) 03/11/2009 By Keith Rathbun, Updated %LET DSN HCS092_1 and CURRENT January,
2009.
*           20) 04/20/2009 By Mike Rudacille, Switched from 2005 to 2007 benchmark data for
transition to
*           V4 questionnaire.
*           21) 05/05/2009 By Mike Rudacille, Updated for 2008 benchmark data.
*           22) 06/22/2009 By Keith Rathbun, Updated %LET DSN HCS093_1 and CURRENT April, 2009.
*           Changed weight variable from FWRWT_V4 back to FWRWT.
*           23) 09/30/2009 By Mike Rudacille, Updated %LET DSN HCS094_1 and CURRENT July, 2009.
*           24) 12/17/2009 by Emma Ernst, Updated %LET DSN HCS101_1 and CURRENT October, 2009.
*           Also changed H09 variables names to be H10 to match 2010 survey.
*           25) 03/02/2010 By Mike Rudacille, Updated %LET DSN HCS102_1 and CURRENT January,
2010.
*           26) 03/25/2010 By Mike Rudacille, Changed HCS102_1 to HCS102_2.
*           Changed because HCS102_1 no longer contains FIELDAGE.
*           27) 03/30/2010 By Mike Rudaiclle, Updated for 2009 benchmark data.
*           28) 06/19/2010 By Mike Rudacille, Updated %LET DSN HCS103_2 and CURRENT April,
2010.
*           29) 08/28/2010 By Mike Rudacille, Updated %LET DSN HCS104_2 and CURRENT July, 2010.
*
* Inputs:   1) HCS05A_1.SD2 - Annual 2005 Survey data
*           2) HCS103_2.sas7bdat - Q3 fy 2010 Survey data
*           3) AC2008DB.sas7bdat - 2009 CAHPS Benchmark Data
*
* Output:   1) SMOKE.sas7bdat

```

```

*
*
*****;

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr;

/** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ***/
%LET RCTYPE = PurchasedReportCards;

LIBNAME BENCH      "..\..\..\2009AdultChildNCBD\Adult";
LIBNAME INDAT      "..\..\..\Data\afinal";
LIBNAME INNORM v612 "..\..\..\2005\Data";
LIBNAME OUT        ".";

%LET DSN=HCS104_2;
%LET DSN_NORM=HCS05A_1;          /*JSO 08/24/2006, Changed Regions, 16 to 15*/
%LET REGNUM = 15;                /*RSG 01/2005 Number of Regions (with serv
affiliation)*/
%LET CONNUM = 4;                 /*RSG 01/2005 Number of Conus level (with serv
affiliation)*/
%LET CURRENT = July, 2010;
%LET WGT = FWRWT;
%LET NORMWGT = CFWT;
%LET CATCHNUM=9999;             /*RSG 02/2005 number of catchment areas **/

DATA BENCHA01;
  SET BENCH.AC2009DB (RENAME=(BIRTHYY=YOB));
  if product in (7,9) then model=4;
  if product=3 then model=2;          /*coded according to AC FORMATS.SAS*/
  if product=1 then model=1;
  if product=4 then model=6;
  if product=8 then model=5;
  if product=2 then model=3;
  product=planid;
  if ^(model in (2,4));
  if disp in ('M10','I10') ;
  if ac45_09 in (1,2) & ac46_09>=0 & ac46_09<=4; /*02/2006 RSG - REMOVED REQUIREMENT FOR
ADDITIONAL VISIT (ACC22 FIELD)*/
  cessbnch=0;
  if ac46_09>0 then cessbnch=1;

proc summary nway; class product;
var cessbnch;
output out=tbench mean=;
proc print;
proc summary;
var cessbnch;
output out=tbench mean=;
proc print;
data _null_;
set tbench;
call symput('CNSLGOAL',cessbnch);
run;

%LET NSMKGOAL = 0.88;

%LET BMIGOAL = 0.85;

%INCLUDE "..\..\PurchasedLoadWeb\LOADCAHQ.INC";

PROC FORMAT;
VALUE AGEF
LOW - 34 = 1
35 - 49 = 2
50 - 64 = 3
65 - HIGH = 4;

/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY '..\..\..\2005\Data\fmtlib';

DATA NORMDATA (KEEP=TMP_CELL AGE_GRP XTNEEXREG XSERVREG XSERVAFF
SM_RATE SM_CESS SM_RTDN SM_CSDN BMI_DN BMI
TOTCON GROUP XSEXA &WGT. age_n MPCSMPL NXNS_COV);

```

```

/* 05/10/2007 JSO Added NXNS_COV in the keep statement */
SET INNORM.&DSN_NORM.(DROP=&WGT.); /* 4/4/2006, KRR added drop so CFWT can renamed/used */
LENGTH AGE_N AGE_GRP TMP_CELL 8.;

IF XREGION=13 THEN XOCONUS=1; /* 08/24/2006, JSO Create XOCONUS for 2005 data */
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;

TMP_CELL=STRATUM;

AGE_N = FIELDAGE;

AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE_GRP < 4;

IF SERVAFF = 'A' THEN XSERVAFF = 1; *Army;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; *Navy;
ELSE XSERVAFF = 4; *Other/unknown;

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN XSERVREG = 13;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 14;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 15;
END;

IF HP_SMOKH IN (1,2) THEN DO;
  SM_RATE = 0;
  IF HP_SMOKH = 2 THEN SM_RATE=1;
  SM_RTDN=1;
END;

if hp_smokh=1 & H05055>0 then do; /*RSG 02/2006 NEW SMOKING CESSATION FORMULA AS PER ERIC SCHONE */
  if H05055>1 then sm_cess=1;
  else sm_cess=0;
  sm_csdn=1;
end;

IF xbmicat > 0 THEN DO;
  BMI = 0;
  BMI_DN=1;
  IF xbmicat <=3 THEN BMI=1;
END;

IF XTNEXREG IN (1,2,3) THEN TOTCON=1;
ELSE IF XTNEXREG = 4 THEN TOTCON=2;

IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */

RENAME &NORMWGT = &WGT;

```

```

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H05006 = 3 THEN DO;
    NXNS_COV = 3;
    XENR_PCM = .;
END;

* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H05007>=2 THEN DO;
    GROUP=1;
    OUTPUT;
END;

* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    XENR_PCM IN (1,2,6) AND H05007>=2 THEN DO;
    GROUP=2;
    OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    XENR_PCM IN (1,2) AND H05007>=2 THEN DO;
    GROUP=2;
    OUTPUT;
END;

* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    XENR_PCM = 3 AND H05007>=2 THEN DO;
    GROUP=3;
    OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    ((XENR_PCM = 3 AND H05007>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added 9*/
    GROUP=3;
    OUTPUT;
END;

* nonenrollees;
IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
    GROUP=4; /*JSO 07/30/2007, Added 9*/
    OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
    GROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
    GROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
END;

* retirees;
IF XBNFGRP IN (3,4) THEN DO;
    GROUP=7;
    OUTPUT;
END;

* all beneficiaries;
GROUP=8;
OUTPUT;

RUN;

```

```

/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY '..\..\..\Data\afinal\fmtlib';

DATA SMOKE (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF TOTCON GROUP
           SM_RATE SM_CESS SM_RTDN SM_CSDN XSEXA &WGT BMI_DN BMI
           MPCSMPL NXNS_COV);/* 05/10/2007 JSO Added NXNS_COV in the keep statement */
SET INDAT.&DSN.;
LENGTH AGE_N AGE_GRP TMP_CELL 8.;

/* MER 4/20/09 - Restrict dataset to just non-zero V4 weights */
IF &WGT <= 0 THEN DELETE;

TMP_CELL=STRATUM;

AGE_N = FIELDAGE;

AGE_GRP = PUT(AGE_N, AGEF.);

IF AGE_GRP < 4;
IF SERVAFF='A' THEN XSERVAFF=1;           *Army;
ELSE IF SERVAFF='F' THEN XSERVAFF=2;     *Air Force;
ELSE IF SERVAFF='N' THEN XSERVAFF=3;     *Navy;
ELSE XSERVAFF=4;

IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE XSERVREG = 4;
END;

IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 5;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
  ELSE XSERVREG = 8;
END;

IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 9;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
  ELSE XSERVREG = 12;
END;

IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
  IF XOCONUS = 1 THEN XSERVREG = 13;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 14;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 15;
END;

IF XTNEXREG IN (1,2,3) THEN TOTCON=1;

ELSE IF XTNEXREG=4 THEN TOTCON=2;

IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

IF XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6,9) THEN DELETE; /*JSO 07/30/2007, Added 9*/

NXNS_COV = XINS_COV; /*JSO 04/26/2007 added for reservists logic*/
/*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H10003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR_PCM = .;
END;

IF HP_SMKH2 IN (1,2) THEN DO;
  SM_RATE = 0;
  IF HP_SMKH2 = 2 THEN SM_RATE=1;

```

```

SM_RTDN=1;
END;

if hp_smkh2=1 & H10053>0 then do; /*RSG 02/2006 NEW SMOKING CESSATION FORMULA AS PER ERIC
SCHONE */
  if H10053>1 then sm_cess=1;
  else sm_cess=0;
  sm_csdn=1;
end;

IF xbmicat > 0 THEN DO;
  BMI = 0;
  BMI_DN=1;
  IF xbmicat <=3 THEN BMI=1;
END;

* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H10004>=2 THEN DO;
  GROUP=1;
  OUTPUT;
END;

* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM IN (1,2,6) AND H10004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  XENR_PCM IN (1,2) AND H10004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;

* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM = 3 AND H10004>=2 THEN DO;
  GROUP=3;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  ((XENR_PCM = 3 AND H10004>=2) OR NXNS_COV IN (3,9)) THEN DO; /*JSO 07/30/2007, Added 9*/
  GROUP=3;
  OUTPUT;
END;

* nonenrollees;
IF NXNS_COV IN (3,9) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
  GROUP=4; /*JSO 07/30/2007, Added 9*/
  OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
  GROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
  GROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;

* retirees;
IF XBNFGRP IN (3,4) THEN DO;
  GROUP=7;
  OUTPUT;
END;

* all beneficiaries;
GROUP=8;
OUTPUT;

```

```

RUN;

PROC SORT DATA=SMOKE;
BY TMP_CELL;
PROC SORT DATA=NORMDATA;
BY TMP_CELL;
RUN;

%MACRO A_SUDAAN(TABLEVAR, SMOKE, SMOKEVAR, DEN);

%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
    %LET ENDNUM=&REGNUM;
    %LET PREF=R;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
    %LET ENDNUM=&CONNUM;
    %LET PREF=M;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
    %LET ENDNUM=&CONNUM;
    %LET PREF=S;
%END;

%ELSE %IF %UPCASE(&TABLEVAR)=TOTCON %THEN %LET PREF=C;

%DO I = 1 %TO 8;

    DATA INDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEX MPCSMP
        &SMOKEVAR. &DEN. TMP_CELL XTNEXREG);
    SET SMOKE;
    WHERE XSERVREG > 0 AND GROUP=&I. AND &DEN. >= 0;
    %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
        IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE;
    %END;
    %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
        IF TOTCON NE 1 THEN DELETE;
    %END;
    %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
        IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
    %END;
    RUN;

    DATA NORMDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEX &SMOKEVAR. &DEN.
        TMP_CELL XTNEXREG MPCSMP);
    SET NORMDATA;
    WHERE XSERVREG > 0 AND GROUP=&I.;

    %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
        IF XSERVAFF > 4 OR XSERVAFF = . THEN DELETE;
    %END;
    %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
        IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
    %END;

    RUN;

    %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
        PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;
        SETENV DECWIDTH=4;
        NEST TMP_CELL / missunit;
        VAR &SMOKEVAR;
        TABLES AGE_GRP*XSEX*MPCSMP*&TABLEVAR.;
        SUBGROUP AGE_GRP XSEX MPCSMP &TABLEVAR.;
        LEVELS 8 2 2 &ENDNUM.;
        OUTPUT SEMEAN MEAN wsum nsum
            / TABLECELL=DEFAULT REPLACE
            FILENAME=&PREF.GRP&I.&SMOKE.;
        RUN;
    %END;
    %ELSE %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
        PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;

```



```

        SETENV DECWIDTH=4;
        NEST TMP_CELL / missunit;
        VAR &SMOKEVAR;
        TABLES AGE_GRP*XSEX*A*MPCSMPL;
        SUBGROUP AGE_GRP XSEX*A*MPCSMPL;
        LEVELS 3 2 2;
        OUTPUT SEMEAN MEAN wsum nsum
            / TABLECELL=DEFAULT REPLACE
              FILENAME=&PREF.GRP&I.&SMOKE.;
    RUN;

%END;

%IF %UPCASE(&SMOKE) NE CS %THEN %DO;

    DATA &PREF.SER_&I.&SMOKE.;
    SET &PREF.GRP&I.&SMOKE.;
    GROUP=&I.;
    IF SEMEAN NE .;
    %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
        KEEP &TABLEVAR. GROUP AGE_GRP XSEX*A*MPCSMPL SEMEAN MEAN wsum nsum;
    %END;
    %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
        TOTCON=1;
        KEEP TOTCON GROUP AGE_GRP XSEX*A*MPCSMPL SEMEAN MEAN wsum nsum;
    %END;
RUN;

/* CREATE WEIGHTS FROM 2005 DATA*/
proc summary data=normdat&i. nway;
    var &WGT;
    where &den>0;
    class age_grp xsex*A*MPCSMPL;
    output out=norm_&i. sum=normwt;

    proc sort data=&pref.ser_&i.&smoke.;
    by age_grp xsex*A*mpcsmpl;

    data &pref.ser_&i.&smoke.;
    merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
    by age_grp xsex*A*mpcsmpl;
    if gin;
    wsum=wsum/normwt;
    nsum=nsum/normwt;
    sesq=normwt*semean**2;
    run;

    proc summary data=&pref.ser_&i.&smoke. nway;
    var mean semean sesq wsum nsum;
    class &tablevar.;
    weight normwt;
    output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)=
sumwgt(semean)=;
    run;

    data &pref.sert&i.&smoke;
    set &pref.sert&i.&smoke;
    group=&i.;
        semean=sqrt(sesq/semean);
    drop _type_ _freq_;
run;

%IF &I. = 1 %THEN %DO;

    DATA &PREF._&SMOKE.;
    SET &PREF.SERT&I.&SMOKE.;
    RUN;
%END;
%ELSE %DO;

    DATA &PREF._&SMOKE.;
        SET &PREF._&SMOKE. &PREF.SERT&I.&SMOKE.;
    RUN;

    PROC SORT DATA=&PREF._&SMOKE.;

```

```

        BY GROUP;
        RUN;

%END;

%END;
%IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
        PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;
        SETENV DECWIDTH=4;
        NEST TMP_CELL / missunit;
        VAR &SMOKEVAR;
        TABLES AGE_GRP*XSEX*&TABLEVAR.;
        SUBGROUP AGE_GRP XSEX&I.&TABLEVAR.;
        LEVELS 3 2 &ENDNUM.;
        OUTPUT SEMEAN MEAN wsum nsum
                / TABLECELL=DEFAULT REPLACE
                FILENAME=&PREF.GRP&I.&SMOKE.;

        RUN;

%END;
%ELSE %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
        PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
        WEIGHT &WGT;
        SETENV DECWIDTH=4;
        NEST TMP_CELL / missunit;
        VAR &SMOKEVAR;
        TABLES AGE_GRP*XSEX&I.;
        SUBGROUP AGE_GRP XSEX&I.;
        LEVELS 3 2 ;
        OUTPUT SEMEAN MEAN wsum nsum
                / TABLECELL=DEFAULT REPLACE
                FILENAME=&PREF.GRP&I.&SMOKE.;

        RUN;

%END;

%IF %UPCASE(&SMOKE) = CS %THEN %DO;

        DATA &PREF.SER_&I.&SMOKE.;
        SET &PREF.GRP&I.&SMOKE.;
        GROUP=&I.;
        IF SEMEAN NE .;
        %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
                KEEP &TABLEVAR. GROUP AGE_GRP XSEX&I. SEMEAN MEAN wsum nsum;
        %END;
        %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
                TOTCON=1;
                KEEP TOTCON GROUP AGE_GRP XSEX&I. SEMEAN MEAN wsum nsum;
        %END;

        RUN;

/* CREATE WEIGHTS FROM 2005 DATA*/
proc summary data=normdat&i. nway;
        var &WGT;
        where &den>0;
        class age_grp xsex&I.;
        output out=norm_&i. sum=normwt;

        proc sort data=&pref.ser_&i.&smoke.;
        by age_grp xsex&I.;

        data &pref.ser_&i.&smoke.;
        merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
        by age_grp xsex&I.;
        if gin;
        wsum=wsum/normwt;
        nsum=nsum/normwt;
        sesq=normwt*semean**2;
        run;

        proc summary data=&pref.ser_&i.&smoke. nway;
        var mean semean sesq wsum nsum;
        class &tablevar.;
        weight normwt;

```

```

output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)=
sumwgt (semean)=;
run;

data &pref.sert&i.&smoke;
set &pref.sert&i.&smoke;
group=&i.;
semean=sqrt(sesq/semean);
drop _type_ _freq_;
run;

%IF &I. = 1 %THEN %DO;

DATA &PREF._CESS;
SET &PREF.SERT&I.&SMOKE.;
RUN;
%END;
%ELSE %DO;

DATA &PREF._CESS;
SET &PREF._CESS &PREF.SERT&I.&SMOKE.;
RUN;

PROC SORT DATA=&PREF._CESS;
BY GROUP;
RUN;

%END;

%END;

%MEND;

%A_SUDAAN(XSERVAFF,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVAFF,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVAFF,BM,BMI,BMI_DN);
%A_SUDAAN(XSERVREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVREG,BM,BMI,BMI_DN);
%A_SUDAAN(XTNEXREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XTNEXREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XTNEXREG,BM,BMI,BMI_DN);
%A_SUDAAN(TOTCON,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(TOTCON,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(TOTCON,BM,BMI,BMI_DN);

%MACRO ADDIT(PREF, TYPE);

DATA &PREF._&TYPE;
SET &PREF._&TYPE;
LENGTH BENEFIT $34. BENTYPE $50.;

BENEFIT="Healthy Behaviors";
%IF &TYPE=RT %THEN %DO;
BENTYPE="Non-Smoking Rate";
%END;
%IF &TYPE=CESS %THEN %DO;
BENTYPE="Counselled To Quit";
%END;
%IF &TYPE = BM %THEN %DO;
BENTYPE = "Percent Not Obese";
%END;

RUN;

%MEND;

%ADDIT(C,RT);

```

```

%ADDIT(C,CESS);
%ADDIT(C,BM);
%ADDIT(M,RT);
%ADDIT(M,CESS);
%ADDIT(M,BM);
%ADDIT(R,RT);
%ADDIT(R,CESS);
%ADDIT(R,BM);
%ADDIT(S,RT);
%ADDIT(S,CESS);
%ADDIT(S,BM);

%MACRO MAKEDATA(PREF, TABLEVAR);
  DATA &PREF._SMOKE;
  SET &PREF._RT
      &PREF._CESS
      &PREF._BM
;

LENGTH MAJGRP $30. REGION REGCAT $25.;

IF      GROUP=1 THEN MAJGRP="Prime Enrollees          ";
ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
ELSE IF GROUP=5 THEN MAJGRP="Active Duty              ";
ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents   ";
ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents   ";
ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries        ";

%IF &TABLEVAR = XSERVAFF %THEN %DO;
  IF XSERVAFF = 1 THEN REGION = 'ARMY';
  IF XSERVAFF = 2 THEN REGION = 'AIR FORCE';
  IF XSERVAFF = 3 THEN REGION = 'NAVY';
  IF XSERVAFF = 4 THEN REGION = 'OTHER';
%END;

%IF &TABLEVAR = XSERVREG %THEN %DO;
  REGION = PUT(XSERVREG,SERVREGO.); /*JSO 08/24/2006, Create new format for Overseas*/
%END;

%IF &TABLEVAR = XTNEXREG %THEN %DO;
  IF XTNEXREG=1 THEN REGION="NORTH";
  ELSE IF XTNEXREG=2 THEN REGION="SOUTH";
  ELSE IF XTNEXREG=3 THEN REGION="WEST";
  ELSE IF XTNEXREG=4 THEN REGION="OVERSEAS";
%END;

%IF &TABLEVAR = TOTCON %THEN %DO;
  REGION = "USA MHS";
%END;

REGCAT=REGION;
DROP GROUP &TABLEVAR;

IF &TABLEVAR NE 0;

RUN;

%MEND MAKEDATA;

%MAKEDATA(M,XSERVAFF);
%MAKEDATA(C,TOTCON);
%MAKEDATA(R,XSERVREG);
%MAKEDATA(S,XTNEXREG);

DATA SMOKE;
SET M_SMOKE R_SMOKE S_SMOKE C_SMOKE;
SESQ = SEMEAN**2;
RENAME MEAN=SCORE wsum=n_wgt nsum=n_obs;

```

```

RUN;

/* CALCULATE COMPOSITE SCORE - AVERAGE RATE AND CESSATION*/

PROC SORT DATA=SMOKE;
BY MAJGRP REGION REGCAT;
RUN;

PROC SUMMARY DATA=SMOKE SUM;
BY MAJGRP REGION REGCAT;
VAR SCORE SESQ N_WGT N_OBS;
OUTPUT SUM= OUT=PRECOMP;
RUN;

DATA COMP(RENAME=(S_MEAN=SCORE S_SE=SEMEAN));
SET PRECOMP;
IF _FREQ_ = 3 THEN DO;
  S_MEAN=SCORE/3;
  S_SE=SQRT(SESQ)/3;
  N_OBS=round(N_OBS/3);
END;
ELSE DO;
  S_MEAN=. ;
  S_SE=. ;
END;
BENTYPE="Composite";
BENEFIT="Healthy Behaviors";
DROP _TYPE_ _FREQ_ SCORE SESQ;
RUN;

PROC SORT DATA=SMOKE;
BY MAJGRP BENTYPE;
RUN;

DATA BENCH;
SET SMOKE;
BY MAJGRP BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
  SCORE=&CNSLGOAL;
  SEMEAN=. ;
  REGION="Benchmark";
  REGCAT="Benchmark";
  DROP N_WGT N_OBS;
  OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
  SCORE=&NSMKGOAL;
  SEMEAN=. ;
  REGION="Benchmark";
  REGCAT="Benchmark";
  DROP N_WGT N_OBS;
  OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
  SCORE=&BMIGOAL;
  SEMEAN=. ;
  REGION="Benchmark";
  REGCAT="Benchmark";
  DROP N_WGT N_OBS;
  OUTPUT;
  SCORE=(SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3;
  SEMEAN=. ;
  REGION="Benchmark";
  REGCAT="Benchmark";
  BENTYPE="Composite";
  DROP N_WGT;
  OUTPUT;
END;
RUN;

PROC SORT DATA=SMOKE;
BY REGION BENTYPE;
RUN;

```

```

DATA BENCH2;
SET SMOKE;
BY REGION BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
  SCORE=&CNSLGOAL;
  SEMEAN=. ;
  MAJGRP="Benchmark";
  DROP N_WGT N_OBS;
  OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
  SCORE=&NSMKGOAL;
  SEMEAN=. ;
  MAJGRP="Benchmark";
  DROP N_WGT;
  OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
  SCORE=&BMIGOAL;
  SEMEAN=. ;
  MAJGRP="Benchmark";
  DROP N_WGT;
  OUTPUT;
  SCORE=(SUM(&CNSLGOAL, &NSMKGOAL, &BMIGOAL))/3;
  SEMEAN=. ;
  MAJGRP="Benchmark";
  BENTYPE="Composite";
  DROP N_WGT N_OBS;
  OUTPUT;
END;
RUN;

DATA SIG1;
SET SMOKE COMP;
IF BENTYPE='Non-Smoking Rate' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&NSMKGOAL)/SEMEAN;
  ELSE TSTAT=. ;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=. ;

  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &NSMKGOAL THEN SIG = 1;
    ELSE IF SCORE < &NSMKGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Counselled To Quit' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&CNSLGOAL)/SEMEAN;
  ELSE TSTAT=. ;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=. ;
  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &CNSLGOAL THEN SIG = 1;
    ELSE IF SCORE < &CNSLGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Percent Not Obese' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&BMIGOAL)/SEMEAN;
  ELSE TSTAT=. ;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=. ;
  IF PVAL GE 0.05 THEN SIG=0;
  ELSE IF PVAL < 0.05 THEN DO;
    IF SCORE > &BMIGOAL THEN SIG = 1;
    ELSE IF SCORE < &BMIGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Composite' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3))/SEMEAN;
  ELSE TSTAT=. ;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=. ;
  IF PVAL GE 0.05 THEN SIG=0;

```

```
ELSE IF PVAL < 0.05 THEN DO;
  IF SCORE > ((SUM(&NSMKGOAL, &CNLSLGOAL, &BMIGOAL))/3) THEN SIG = 1;
  ELSE IF SCORE < ((SUM(&NSMKGOAL, &CNLSLGOAL, &BMIGOAL))/3) THEN SIG = -1;
END;
END;

DROP TSTAT PVAL;
RUN;

DATA SMOKE_ALL;
SET SIG1 BENCH BENCH2;
TIMEPD="&CURRENT.";
RUN;

PROC SORT DATA=SMOKE_ALL OUT=OUT.SMOKE;
BY MAJGRP REGION REGCAT BENTYPE;
RUN;
```

I.4.C Q4FY2010\PROGRAMS\PURCHASEDREPORTCARDS\MPR_ADULTQ4FY2010\LOADMPRQ.SAS - CONVERT THE MPR SCORES DATABASE INTO THE WEB LAYOUT - RUN QUARTERLY.

```

*****
*
* Project: DoD Reporting and Analysis 6077-410
* Program: LOADMPRQ.SAS
* Purpose: Calculate MPR Preventive Care Composites
* Date: 4/07/2000
* Author: Chris Rankin
*
* Modified: 1) 05-08-2001 By Keith Rathbun, Added SEMEAN to LOADMPRQ.SD2
* to accommodate the Short Reports. Condensed some code.
*
* 2) 07-15-2002 By Mike Scott, Changed PERIOD to = "April, 2001
* to March, 2002".
*
* 3) 03-21-2003 By Mike Scott, Changed PERIOD to = "January, 2001
* to December, 2002".
*
* 4) 04-30-2003 By Mike Scott, Changed CMPNUM1 from 4 to 5, and
* changed the upper limits of both DO loops from 5 to 6 because
* of the addition of Cholesterol Testing.
*
* 5) 06-23-2003 By Mike Scott, Changed setting BENTYPE from &PERIOD
* to Composite. Added TIMEPD variable.
*
* 6) 06-26-2003 By Mike Scott, Updated for Q2 2003.
*
* 7) 10-21-2003 By Mike Scott, Updated for Q3 2003.
*
* 8) 01-07-2004 By Mike Scott, Updated for Q4 2003.
*
* 9) 03-24-2004 By Mike Scott, Updated for Q1 2004.
*
* 10) 06-22-2004 By Regina Gramss, Updated for Q2 2004.
*
* 11) 09/2004 By Regina Gramss, Updated for Q3 2004.
*
* 12) 01/2005 By Regina Gramss, Replaced XTNEKREG with XSERVREG
* to produce "last conus_q" for Q4 2005
*
* 13) 12/2005 By Regina Gramss, Updated for Q4 2005.
*
* 14) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
* %LET PERIOD = January, 2006 was the only change.
*
* 15) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
*
* 16) 08/24/2006 By Justin Oh, change DO REG = 1 TO 15 from 1 TO 16.
*
* 17) 10/04/2006 By Justin Oh, Updated %LET PERIOD.
*
* 18) 12/20/2006 By Justin Oh, Updated %LET PERIOD October, 2006.
*
* 19) 04/05/2007 By Justin Oh, Updated %LET PERIOD January, 2007.
*
* 20) 06/22/2007 By Keith Rathbun, Updated %LET PERIOD April, 2007.
*
* 21) 09/04/2007 By Justin Oh, Updated %LET PERIOD July, 2007.
*
* 22) 01/10/2008 By Keith Rathbun, Updated %LET PERIOD October, 2007.
*
* 23) 04/11/2008 By Justin Oh, Updated %LET PERIOD January, 2008.
*
* 24) 06/13/2008 By Keith Rathbun, Updated %LET PERIOD April, 2008.
*
* 25) 01/06/2009 By Mike Rudacille, Updated %LET PERIOD October, 2008.
*
* 26) 01/16/2009 By Mike Rudacille, Changed CONUS variable to USA.
*
* 27) 03/11/2009 By Keith Rathbun, Updated %LET PERIOD January, 2009.
*
* 28) 06/22/2009 By Keith Rathbun, Updated %LET PERIOD April, 2009.
*
* 29) 09/30/2009 By Mike Rudacille, Updated %LET PERIOD July, 2009.
*
* 30) 12/17/2009 By Emma Ernst, Updated %LET Period October, 2009.
*
* 31) 03/02/2010 By Mike Rudacille, Updated %LET PERIOD January, 2010.
*
* 32) 06/19/2010 By Mike Rudacille, Updated %LET PERIOD April, 2010.
*
* 33) 08/28/2010 By Mike Rudacille, Updated %LET PERIOD July, 2010.
*
*
* Input: 1) RFINAL.sas7bdat
* 2) CFINAL.sas7bdat
* 3) MFINAL.sas7bdat
* 4) SFINAL.sas7bdat
* 5) SMOKE.sas7bdat
*
*
* Output: loadmprq.sas7bdat
*
* Note: ***CHECK COMPNUM AND CMPNUM1 ASSIGNMENTS AND UPPER LIMIT OF DO LOOPS***
*
*****;

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2;

LIBNAME INLIB ".";
LIBNAME OUT ".";
LIBNAME LIBRARY "..\..\Data\afinal\fmtlib";

%LET CMPNUM1=4; /** number of questions in first composite ***/ /*RSG 04/2005 Changed 5 to 4*/

```



```

%LET PERIOD = July, 2010;
%INCLUDE "..\..\PURCHASEDLOADWEB\LOADCAHQ.INC";

*****;
*** Note -- take out access to care questions and composite ***;
*****;

data mfinal(keep=cpbmk1 compress=no);
  set inlib.mfinal(keep=majgrp cpbmk1) INLIB.CFINAL (KEEP=MAJGRP CPBMK1);
  where majgrp="All Beneficiaries"; /*RSG 02/2005 Include CONUS MHS data*/
run;

data mfinal;
  if _n_=1 then set mfinal;
  set inlib.mfinal(drop=cpbmk1) INLIB.CFINAL(DROP=CPBMK1) ;
run;

proc sort data=mfinal; /*RSG 01/2005 - Added code to select only 1 record per majgrp */
by majgrp; /*using xservreg, there are now 4 conus areas which caused
duplicate benchmark calcs */
data mfinal;
set mfinal;
by majgrp;
if first.majgrp;
run;

*****;
**** Benchmarks **;
*****;

DATA BENCHMKS(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SIG);
  FORMAT MAJGRP $30. REGION $25. REGCAT $26. /* RSG 01/2005 Increase region format to
accommodate service affiliation **/
  BENEFIT $34. BENTYPE $50. TIMEPD $35.; ***MJS 06/23/03 Added TIMEPD;
  SET MFINAL;

  ARRAY BENCHMK{*} GOALVAR1-GOALVAR&CMPNUM1 CPBMK1;
  DO I = 1 TO 5; ***RSG 04/2005 Changed 6 to 5;
    SCORE = BENCHMK{I}*100;
    SIG = .;
    REGION = "Benchmark";
    REGCAT = "Benchmark";
    BENEFIT = "Preventive Care";
    IF I = 1 THEN BENTYPE = "Prenatal Care";
    ELSE IF I = 2 THEN BENTYPE = "Mammography";
    ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
    ELSE IF I = 4 THEN BENTYPE = "Hypertension";
    /*RSG 04/2005 DELETED CHOLESTEROL*/
    ELSE IF I = 5 THEN BENTYPE = "Composite"; ***MJS 06/23/03 Changed &PERIOD to Composite;
    TIMEPD = "&PERIOD"; ***MJS 06/23/03 Added line;
  OUTPUT;
  END;
  DROP I;
RUN;

DATA BENCHMKS;
  SET BENCHMKS;
  OUTPUT;
  IF MAJGRP = "All Beneficiaries" THEN DO;
    DO REG = 1 TO 15; DROP REG; /*JSO 08/24/2006, Changed Regions, 16 to 15*/
      MAJGRP = "Benchmark";
      REGION = PUT(REG,SERVREGO.);
      REGCAT = PUT(REG,SERVREGO.);
      OUTPUT;
    END;
    DO SERV = 1 TO 4; DROP SERV;
      MAJGRP = "Benchmark";
      REGION = PUT(SERV,XSERVAFF.);
      REGCAT = PUT(SERV,XSERVAFF.);
      OUTPUT;
    END;

    MAJGRP = "Benchmark";
    REGION = 'USA MHS';

```

```

REGCAT = 'USA MHS';
OUTPUT;
MAJGRP = "Benchmark";
REGION = 'NORTH';
REGCAT = 'NORTH';
OUTPUT;
MAJGRP = "Benchmark";
REGION = 'SOUTH';
REGCAT = 'SOUTH';
OUTPUT;
MAJGRP = "Benchmark";
REGION = 'WEST';
REGCAT = 'WEST';
OUTPUT;
MAJGRP = "Benchmark";
REGION = 'OVERSEAS';
REGCAT = 'OVERSEAS';
OUTPUT;
END;
RUN;

PROC FREQ DATA=BENCHMKS;
  TABLES MAJGRP/MISSING LIST;
RUN;

*****;
***** Scores **;
*****;

DATA SCORES(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG N_OBS N_WGT);
  FORMAT MAJGRP $30. REGION $25. REGCAT $26. /** RSG 01/2005 Increase region format to
  accommodate service affiliation **/
  BENEFIT $34. BENTYPE $50. TIMEPD $35.; ***MJS 06/23/03 Added TIMEPD;
  SET INLIB.MFINAL INLIB.CFINAL
  INLIB.RFINAL INLIB.SFINAL;

  ARRAY SEMEANS{*} SERRV1-SERRV&CMPNUM1. CPLSE ;
  ARRAY SCORES{*} SCORV1-SCORV&CMPNUM1. CSCOR1;
  ARRAY SIGNIF{*} SIGV1-SIGV&CMPNUM1. CPSIG1;
  ARRAY NOBS{*} NOBSV1-NOBSV&CMPNUM1. CPOBS1;
  ARRAY NWGT{*} DENV1-DENV&CMPNUM1 CPDEN1;

DO I = 1 TO 5; ***RSG 04/2005 Changed 6 to 5;
  SCORE = SCORES{I};
  SEMEAN = SEMEANS{I};
  SIG = SIGNIF{I};
  N_OBS = NOBS{I};
  N_WGT = NWGT{I};
  BENEFIT = "Preventive Care";
  IF I = 1 THEN BENTYPE = "Prenatal Care";
  ELSE IF I = 2 THEN BENTYPE = "Mammography";
  ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
  ELSE IF I = 4 THEN BENTYPE = "Hypertension";
  /*RSG 04/2005 DELETED CHOLESTEROL*/
  ELSE IF I = 5 THEN BENTYPE = "Composite"; ***MJS 06/23/03 Changed &PERIOD to Composite;
  TIMEPD = "&PERIOD"; ***MJS 06/23/03 Added line;
  OUTPUT;
END;
RUN;

DATA LOADMPRQ (KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG
  N_OBS N_WGT);
SET BENCHMKS SCORES INLIB.SMOKE;
RUN;

PROC SORT DATA=LOADMPRQ OUT=OUT.LOADMPRQ;
BY MAJGRP REGION;
RUN;

```

I.5.A Q4FY2010\PROGRAMS\PURCHASEDLOADWEB\FAKEQ.SAS - GENERATE THE WEB LAYOUT/TEMPLATE FILE - RUN QUARTERLY.

```
*****
* PROJECT: DOD Quarterly Survey, Consumer Reports (6077-410)
* PROGRAM: FAKEQ.SAS
* PURPOSE: Generate Fake Data for Report Cards
* AUTHOR: Mark A. Brinkley
*
* MODIFIED: 1) July 2000 By Eric Schone to utilize CACRPT and CATREP
*           include files.
*           2) February 2001 By Keith Rathbun - More updates for
*           Quarterly report card format. Made FAKE datastep into
*           a macro to handle multiple quarters. Added QTR and
*           PERIOD parameters.
*           3) July 2001 By Mark Brinkley - Updated for
*           Quarterly 2 reports
*           4) April 2002 By Keith Rathbun - Updated DSN and %LET
*           statements for 2002 reports and added TREND records.
*           Removed Flu Shot.
*           5) July 2002 By Mike Scott - Updated DSN and %LET statements
*           for Q2 2002 reports.
*           6) March 2003 By Mike Scott - Updated for 2003 survey.
*           7) June 2003 By Mike Scott - Added TIMEPD variable to be set to the period
*           or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
*           setting to 'Composite'. Updated for Q2 2003.
*           8) July 2003 BY Mike Scott - Above for K=7 through 10 in loop DO K=0 TO 11.
*           Added LOADCAHQ.INC.
*           9) October 2003 By Mike Scott - Updated for Q3 2003.
*           10) January 2004 By Mike Scott - Updated for Q4 2003.
*           11) March 2004 By Mike Scott - Updated for Q1 2004.
*           12) June 2004 By Regina Gramss - Updated for Q2 2004.
*           13) September 2004 By Regina Gramss - Updated for Q3 2004, to use XTNEXREG vs XREGION
*           14) January 2005 By Regina Gramss - Prepare "Last Conus_q" for Q4 2005
*           replace XTNEXREG with XSERVREG
*           15) April 2005 By Regina Gramss - Update for Q1 2005, delete cholesterol
*           bentype and include Healthy Behaviors composite and BMI bentype.
*           16) July 2005 By Regina Gramss - Update for Q2 2005.
*           17) October 2005 By Regina Gramss - Updated for Q3 2005
*           18) December 2005 By Regina Gramss - Updated for Q4 2005
*           19) March 2006 By Keith Rathbun - Updated for Q2 FY 2006
*           20) July 2006 By Justin Oh - Updated for Q3 FY 2006
*           21) 08/22/2006 By Justin Oh - Changed XSERVREG for Overseas
*           22) 10/03/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS063_1 to HCS064_1 for Q4FY2006 reports.
*           23) 02/02/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS064_1 to HCS071_1 for Q4FY2006 reports.
*           24) 04/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS071_1 to HCS072_1 for Q4FY2006 reports.
*           25) 06/22/2007 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS072_1 to HCS073_1 for Q3FY2007 reports.
*           26) 09/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS073_1 to HCS074_1 for Q4FY2007 reports.
*           27) 01/10/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS074_1 to HCS081_1 for Q1FY2008 reports.
*           28) 04/11/2008 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS081_1 to HCS082_1 for Q2FY2008 reports.
*           29) 06/13/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS082_1 to HCS083_1 for Q3FY2008 reports.
*           30) 10/02/2008 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS083_1 to HCS084_1 for Q4FY2008 reports.
*           31) 01/06/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS084_1 to HCS091_1 for Q1FY2009 reports.
*           32) 01/16/2009 By Mike Rudacille - Changed CONUS to USA.
*           33) 03/11/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS091_1 to HCS092_1 for Q2FY2009 reports.
*           34) 04/11/2009 By Mike Rudacille - Updated composite definitions
*           to reflect modifications to beneficiary reports necessary for V4
*           35) 06/22/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS092_1 to HCS093_1 for Q3FY2009 reports.
*           36) 09/30/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*           Changed input data HCS093_1 to HCS094_1 for Q4FY2009 reports.
*           37) 12/17/2009 By Emma Ernst - Changed %LET PERIOD1- Period4
```

```

*          Changed input data to HCS10_1 for Q1FY2010
*      38) 03/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*          Changed input data HCS101_1 to HCS102_1 for Q2FY2010 reports.
*      39) 03/30/2010 By Mike Rudacille - Changed input data from
*          HCS102_1 to HCS102_2 (FIELDAGE no longer included in HCSyyq_1).
*      40) 06/19/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*          Changed input data HCS102_2 to HCS103_2 for Q3FY2010 reports.
*      41) 08/28/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*          Changed input data HCS103_2 to HCS104_2 for Q4FY2010 reports.
*
* INCLUDES: 1) CACRPT.INC - Report Card Catchment Definitions
*           2) CATREP.INC - Report Card Catchment Format Defns
*
*****;
%LET NUMQTR = 5;      ***MJS 06/18/03 Changed 4 to 5;

%LET PERIOD1 = October, 2009;
%LET PERIOD2 = January, 2010;
%LET PERIOD3 = April, 2010;
%LET PERIOD4 = July, 2010;

%LET PERIOD5 = Trend;      ***MJS 06/18/03 Added line;

%INCLUDE "LOADCAHQ.INC";      ***MJS 07/07/03 Added;

LIBNAME OUT      ".";
LIBNAME IN       "..\..\Data\AFinal";
LIBNAME LIBRARY  "..\..\Data\AFinal\fmtlib";

OPTIONS COMPRESS=YES NOFMTERR;

*****
* CREATE TEMPORARY DATASET FOR RECODING CACSMPL TO BE COLLAPSED FOR
* REPORT CARD PURPOSES
* FOR QUARTERLY REPORTS CATCHMENT LEVEL REPORTING IS NOT DONE
* AND THEREFORE THE VALUE OF CELLP IS SET TO 1
* FOR ANNUAL REPORTING PURPOSES
* CELLP WILL NEED TO BE ASSIGNED TO GEOCELL (KEEP GEOCELL ON INPUT)
*****;

DATA TEMP;
  SET IN.HCS104_2;
  CELLP=1;
  *****
  * CODE FOR XSERVREG FROM XTNEXREG
  *****;
  IF SERVAFF='A' THEN XSERVAFF=1;          *Army;
  ELSE IF SERVAFF='F' THEN XSERVAFF=2;     *Air Force;
  ELSE IF SERVAFF='N' THEN XSERVAFF=3;     *Navy;
  ELSE XSERVAFF=4;

  IF XTNEXREG = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 1;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
    ELSE XSERVREG = 4;
  END;

  IF XTNEXREG = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 5;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 6;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 7;
    ELSE XSERVREG = 8;
  END;

  IF XTNEXREG = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 9;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 10;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 11;
    ELSE XSERVREG = 12;
  END;
END;

```

```

        IF XTNEXREG = . THEN DELETE;

RUN;

proc freq;
table xservreg*cacsmp1/ noprint out=temp;
run;

data temp2;
length cafmt $26;
set temp end=last;
by xservreg;
    caf=0;
where cacsmp1 ne 9999;
    if first.xservreg then do; /* took out condition for xregion= 8 since using xservreg now */
        cafmt=put(xservreg,servregf.);
        output;
    end;
    cafmt=put(cacsmp1,catrep.);
    caf=1;
    if count>60 & cafmt ne 'INV' then output;
    if last then do;
        xservreg=0;
        caf=0;
        cafmt='Benchmark';
        output;
        /** RSG 01/2005 Add in codes for service affiliation categories **/

        caf=1;

        xservreg=13;
        cafmt='Overseas Europe';
        output;
        xservreg=14;
        cafmt='Overseas Pacific';
        output;
        xservreg=15;
        cafmt='Overseas Latin America';
        output;
        xservreg=16;
        cafmt = 'ARMY';
        output;
        xservreg=17;
        cafmt = 'AIR FORCE';
        output;
        xservreg=18;
        cafmt = 'NAVY';
        output;
        xservreg=19;
        cafmt = 'OTHER';
        output;
        xservreg=20;
        cafmt = 'NORTH';
        output;
        xservreg=21;
        cafmt = 'SOUTH';
        output;
        xservreg=22;
        cafmt = 'WEST';
        output;
        xservreg=23;
        cafmt = 'OVERSEAS';
        output;
        xservreg=24;
        cafmt = 'USA MHS';
        output;
        xservreg=25;
        cafmt = 'Europe Army';
        output;
        xservreg=26;
        cafmt = 'Europe Air Force';
        output;

```

```

        xservreg=27;
        cafmt = 'Europe Navy';
output;
        xservreg=28;
        cafmt = 'Europe Other';
output;
        xservreg=29;
        cafmt = 'Pacific Army';
output;
        xservreg=30;
        cafmt = 'Pacific Air Force';
output;
        xservreg=31;
        cafmt = 'Pacific Navy';
output;
        xservreg=32;
        cafmt = 'Pacific Other';
output;
        xservreg=33;
        cafmt = 'Latin America Army';
output;
        xservreg=34;
        cafmt = 'Latin America Force';
output;
        xservreg=35;
        cafmt = 'Latin America Navy';
output;
        xservreg=36;
        cafmt = 'Latin America Other';
output;
    end;
run;

/*RSG 04/2005 order region groups the way it should appear in reports*/
data temp3 (rename=(temp_r=xservreg));
    set temp2;
if      xservreg=0  then temp_r=1;
else if xservreg=24 then temp_r=2;
else if xservreg=16 then temp_r=3;
else if xservreg=18 then temp_r=4;
else if xservreg=17 then temp_r=5;
else if xservreg=19 then temp_r=6;
else if xservreg=20 then temp_r=7;
else if xservreg=1  then temp_r=8;
else if xservreg=3  then temp_r=9;
else if xservreg=2  then temp_r=10;
else if xservreg=4  then temp_r=11;
else if xservreg=21 then temp_r=12;
else if xservreg=5  then temp_r=13;
else if xservreg=7  then temp_r=14;
else if xservreg=6  then temp_r=15;
else if xservreg=8  then temp_r=16;
else if xservreg=22 then temp_r=17;
else if xservreg=9  then temp_r=18;
else if xservreg=11 then temp_r=19;
else if xservreg=10 then temp_r=20;
else if xservreg=12 then temp_r=21;
else if xservreg=23 then temp_r=22;
else if xservreg=13 then temp_r=23;
else if xservreg=14 then temp_r=24;
else if xservreg=25 then temp_r=25;
else if xservreg=26 then temp_r=26;
else if xservreg=27 then temp_r=27;
else if xservreg=28 then temp_r=28;
else if xservreg=29 then temp_r=29;
else if xservreg=30 then temp_r=30;
else if xservreg=31 then temp_r=31;
else if xservreg=32 then temp_r=32;
else if xservreg=33 then temp_r=33;
else if xservreg=34 then temp_r=34;
else if xservreg=35 then temp_r=35;
else if xservreg=36 then temp_r=36;
drop xservreg;
run;

```

```

proc sort;
by xservreg caf cafmt;
run;

data temp4;
set temp3 end=last;

start=_n_;
label=cafmt;
type='N';
fmtname='ROWMAT';
if last then call symput('x',_n_);

run;

proc format cntlin=temp4;

proc print data=temp4;
run;

%MACRO FAKE;
DATA FAKE;

KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD I K;    ***MJS 06/18/03 Added TIMEPD;

LENGTH MAJGRP $ 30
        REGION $ 25    /*RSG 01/2005 lengthen format to fit service affiliation*/
        REGCAT $ 26
        BENTYPE $ 50
        TIMEPD $ 35;    ***MJS 06/18/03 Added TIMEPD;

DO I=1 TO 8;          ** 8 Major groups **;

MAJGRP=PUT(I,MAJOR.);

DO J=1 TO &x;        ** Region/catchment **;

REGCAT=PUT(J,ROWMAT.);
RETAIN REGION;

**RSG 01/2005 Change code to fit XSERVREG values**;
IF SUBSTR(REGCAT,1,8) IN ('Benchmar','Overseas','OVERSEAS') OR
   SUBSTR(REGCAT,1,5)      IN      ('Pacif','Europ','Latin','North','South','West
','NORTH','SOUTH','WEST') OR
   REGCAT IN ('ARMY','AIR FORCE','NAVY','OTHER','USA MHS') THEN REGION=REGCAT;

DO K=1 TO 11;       ** 11 Benefits **;  /*** 04-11-09 MER ***/

BENEFIT=PUT(K,BEN.);

IF K=1 THEN DO;
DO L=1 TO 3;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;
BENTYPE=PUT(L,GETNCARE.);    ***that replaced BENTYPE hard assignment;
%DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
%END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
END;
END;
ELSE IF K=2 THEN DO;
DO L=1 TO 3;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;
BENTYPE=PUT(L,GETCAREQ.);    ***that replaced BENTYPE hard assignment;
%DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
%END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
END;
END;
ELSE IF K=3 THEN DO;
DO L=1 TO 5;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;

```

```

        BENTYPE=PUT(L,HOWWELL.);    ***that replaced BENTYPE hard assignment;
        %DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
        %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
END;
ELSE IF K=4 THEN DO;
    DO L=1 TO 3;                    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
        BENTYPE=PUT(L,CUSTSERV.);    ***that replaced BENTYPE hard assignment;
        %DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
        %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
END;
ELSE IF K=5 THEN DO;
    DO L=1 TO 3;                    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
        BENTYPE=PUT(L,CLMSPROC.);    ***that replaced BENTYPE hard assignment;
        %DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
        %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
END;
ELSE IF K=6 THEN DO;
    %DO Q = 1 %TO &NUMQTR;
        BENTYPE = "Composite";    ***MJS 07/07/03 Added;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
        %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
    END;
ELSE IF K=7 THEN DO;
    %DO Q = 1 %TO &NUMQTR;
        BENTYPE = "Composite";    ***MJS 07/07/03 Added;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
        %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
    END;
ELSE IF K=8 THEN DO;
    %DO Q = 1 %TO &NUMQTR;
        BENTYPE = "Composite";    ***MJS 07/07/03 Added;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
        %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
    END;
ELSE IF K=9 THEN DO;
    %DO Q = 1 %TO &NUMQTR;
        BENTYPE = "Composite";    ***MJS 07/07/03 Added;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/    ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
        %END;    ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
    END;
ELSE IF K=10 THEN DO;
    DO L=1 TO 5;                    ***MJS 06/18/03 Added L loop and BENTYPE PUT;
        BENTYPE=PUT(L,PREVCARE.);    ***that replaced BENTYPE hard assignment;
        %DO Q = 1 %TO &NUMQTR;    ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
        TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
        %END;    ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
    END;
END;
ELSE IF K=11 THEN DO;                ***RSG 02/2005 Added for smoking scores.;
    DO M=1 TO 4;
        BENTYPE=PUT(M,SMOKEF.);
        %DO Q = 1 %TO &NUMQTR;
            TIMEPD = "&&PERIOD&Q"; OUTPUT;
        %END;
    END;
END;
END;

```



```

        END;
    END;
END;
RUN;
%MEND FAKE;
%FAKE;

/**** 12-13 MAB ****/
/**** Since quarterly files won't have catchment level data then delete ****/
DATA FAKE;
    SET FAKE;
    IF REGION=REGCAT;
RUN;

/**** 12-13 MAB ****/
/**** Need to create single benchmarks for ALL major groups ****/
DATA EXTRA;
    SET FAKE;
    IF MAJGRP="Prime Enrollees" AND REGION=REGCAT AND REGION^="Benchmark";
    MAJGRP="Benchmark";
RUN;
/**** Combine extra data with fake ****/
DATA FAKE;
    SET EXTRA FAKE;
RUN;

/**** Need to clean up data ****/
DATA OUT.FAKEQ;
    SET FAKE;

/**** Need to set oddball records to missing ****/
IF REGION="Benchmark" THEN SIG=.;
if region=''|compress(regcat)='.' then delete;

/**** Don't populate catchment areas for 4 major groups ****/
*IF I IN(3,4,6,7) AND REGION^=REGCAT THEN DELETE;          /**** 12-13 MAB ****/

DROP I K;

RUN;

PROC FREQ;
    TABLES MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG;    ***MJS 07/21/03 Added TIMEPD;
RUN;

ENDSAS;

```

I.5.B Q4FY2010\PROGRAMS\PURCHASEDLOADWEB\MERGFINQ.SAS - MERGE THE FINAL CAHPS AND MPR SCORES DATABASES INTO THE WEB LAYOUT - RUN QUARTERLY.

```

*****
*
* PROGRAM:  MERGFINQ.SAS
* TASK:    Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE: Merge the final CAHPS and MPR Scores Databases
*          into the WEB layout preserving the order of the FAKEQ.SD2.
*
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from MERGFINL.SAS.
*
* INPUTS:  1) MPR and CAHPS Individual and Composite data sets with adjusted
*          scores, and benchmark data for quarterly DoD HCS.
*          - LOADMPRQ.SD2 - MPR Scores Database
*          - LOADCAHQ.SD2 - CAHPS Scores Database
*          - BENCHA04.SD2 - CAHPS Benchmark Database
*          - FAKEQ.SD2   - WEB Layout in Column order
*
* OUTPUT:  1) MERGFINQ.SD2 - Combined Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*          and composite data sets
*
* MODIFIED: 1) 07/15/2002 by Mike Scott: Updated libnames for Q2 2002.
*          2) 03/21/2003 by Mike Scott: Updated for 2003 survey.
*          3) 07/09/2003 by Mike Scott: Updated for Q2 2003. Added TIMEPD to KEYS.
*          4) 07/23/2003 by Mike Scott: Added TIMEPD to FREQS and PRINT.
*          5) 10/21/2003 by Mike Scott: Updated for Q3 2003.
*          6) 01/07/2004 by Mike Scott: Updated for Q4 2003.
*          7) 03/24/2004 by Mike Scott: Updated for Q1 2004.
*          8) 06/22/2004 by Regina Gramss: Updated for Q2 2004.
*          9) 09/2004   by Regina Gramss: Updated for Q3 2004, Use XTNEXPREG vs XREGION
*          10) 01/2005  by Regina Gramss: Changed XTNEXPREG to XSERVREG to compile
*              "Last conus_q" for Q4 2005
*          11) 04/2005  by Regina Gramss: Updated for Q1 2005
*          12) 07/2005  by Regina Gramss: updated for Q2 2005
*          13) 10/2005  by Regina Gramss: Updated for Q3 2005
*          14) 12/2005  by Regina Gramss: Updated for Q4 2005
*          15) 07/2006  by Justin Oh: Updated for Q3 FY 2006
*          16) 08/22/2006 by Justin Oh: Change DO REG = 1 TO 15 from 1 TO 16
*          17) 10/03/2006 by Justin Oh - Changed libname in2 and in3 for Q4FY2006.
*          18) 12/20/2006 by Justin Oh - Changed libname in2 and in3 for Q1FY2007.
*          19) 04/05/2007 by Justin Oh - Changed libname in2 and in3 for Q2FY2007.
*          20) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
*              ReportCards OR PurchasedReportCards.
*          21) 04/05/2007 by Justin Oh - Added %LET BCHTYPE to select BCH types
*              Benchmark OR PurchasedBenchmark.
*          22) 09/05/2007 by Justin Oh - Changed libname in2 and in3 for Q4FY2007.
*          23) 01/10/2008 by Keith Rathbun - Changed libname in2 and in3 for Q1FY2008.
*          24) 04/11/2008 by Justin Oh - Changed libname in2 and in3 for Q2FY2008.
*          25) 06/13/2008 by Keith Rathbun - Changed libname in2 and in3 for Q3FY2008.
*          26) 10/02/2008 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2008.
*          27) 01/06/2009 by Mike Rudacille - Changed libname in2 and in3 for Q1FY2009.
*          28) 01/16/2009 by Mike Rudacille - Changed CONUS to USA.
*          29) 03/11/2009 by Keith Rathbun - Changed libname in2 and in3 for Q2FY2009.
*          30) 06/23/2009 by Keith Rathbun - Changed libname in2 and in3 for Q3FY2009.
*          31) 09/30/2009 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2009.
*          32) 12/17/2009 by Emma Ernst- Changed libname in2 and in3 for Q1FY2010.
*          33) 03/02/2010 by Mike Rudacille - Changed libname in2 and in3 for Q2FY2010.
*          34) 06/19/2010 by Mike Rudacille - Changed libname in2 and in3 for Q3FY2010.
*          35) 08/28/2010 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2010.
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1Q.SAS      - Recode questions and generate CAHPS group files
*   - STEP2Q.SAS      - Calculate CAHPS individual adjusted scores for groups 1-7
*   - COMPOSIT.SAS    - Calculate composite adjusted scores for group 1-8
*   - PRVCOMPQ.SAS    - Calculate MPR individual and composite scores
*   - BENCHA01-04.SAS - Convert Benchmark Scores into WEB layout
*   - LOADCAHQ.SAS    - Convert Quarterly CAHPS Scores Database into WEB layout
*   - LOADMPRQ.SAS    - Convert Quarterly MPR Scores Database into WEB layout

```

```

*
* 2) The output file (MERGFINQ.SD2) will be run through the
*   MAKEHTMQ.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;

/**** SELECT PROGRAM - ReportCards OR PurchasedReportCards          ****/
%LET RCTYPE = PurchasedReportCards;

/**** SELECT PROGRAM - Benchmark OR PurchasedBenchmark              ****/
%LET BCTYPE = PurchasedBenchmark;

LIBNAME IN1  ".";
LIBNAME IN2  "CAHPS_ADULTQ4FY2010\Data";
LIBNAME IN3  "..\&RCTYPE\MPR_AdultQ4FY2010";
LIBNAME IN4  "..\&BCTYPE\Data";
LIBNAME OUT  ".";
LIBNAME LIBRARY  "..\..\DATA\AFINAL\FMTLIB";

OPTIONS PS=79 LS=232 COMPRESS=YES NOCENTER;    ***MJS 07/23/03 Changed LS from 132;

%INCLUDE "LOADCAHQ.INC";

*****
* Construct ORDERing variable from WEB layout
*****;
DATA ORDER;
  SET IN1.FAKEQ;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/09/03 Added TIMEPD;
  KEEP KEY ORDER;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;

*****
* Merge the Scores Databases
*****;
DATA MERGFINQ;
  SET IN2.LOADCAHQ(IN=INCAHPQ)
      IN3.LOADMPRQ(IN=INMPRQ )
      IN4.BENCHA04(IN=INBENQ );
  SVCAHPQ = INCAHPQ;
  SVMPRQ  = INMPRQ;
  SVBENQ  = INBENQ;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/09/03 Added TIMEPD;
  KEYLEN=LENGTH(KEY);
  KEYTEST=LENGTH(BENEFIT)+LENGTH(BENTYPE)+LENGTH(MAJGRP)+LENGTH(REGION)+LENGTH(TIMEPD);
  OUTPUT;
  IF INBENQ THEN DO;
    IF MAJGRP = "All Beneficiaries" THEN DO;
      DO REG = 1 TO 24; DROP REG; /*JSO 08/24/2006, Changed Regions, 16 to 24*/
        MAJGRP = "Benchmark";
        REGION = PUT(REG,SERVREGF.);
        REGCAT = PUT(REG,SERVREGF.);
        KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
              UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
              UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/09/03 Added
TIMEPD;
        OUTPUT;
      END;
      DO SERV = 1 TO 4; DROP SERV;    ***RSG 02/2005 Add in serv
affiliation;
        MAJGRP = "Benchmark";
        REGION = PUT(SERV,XSERVAFF.);
        REGCAT = PUT(SERV,XSERVAFF.);

```

```

        KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
              UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
              UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;
END;

MAJGRP = "Benchmark";
REGION = 'NORTH';
REGCAT = 'NORTH';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'Overseas Europe';
REGCAT = 'Overseas Europe';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'Overseas Pacific';
REGCAT = 'Overseas Pacific';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'Overseas Latin America';
REGCAT = 'Overseas Latin America';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'SOUTH';
REGCAT = 'SOUTH';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'WEST';
REGCAT = 'WEST';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'OVERSEAS';
REGCAT = 'OVERSEAS';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

MAJGRP = "Benchmark";
REGION = 'USA MHS';
REGCAT = 'USA MHS';
    KEY = UPCASE (TRIM (BENEFIT)) || UPCASE (TRIM (BENTYPE)) ||
          UPCASE (TRIM (MAJGRP)) || UPCASE (TRIM (REGCAT)) ||
          UPCASE (TRIM (REGION)) || UPCASE (TRIM (TIMEPD));
    OUTPUT;

END;
END;
IF SCORE = . THEN DELETE;

```

```

RUN;

PROC SORT DATA=MERGFINQ; BY KEY; RUN;

*****
* Append ORDERING variable to the merged Scores database file
*****;
DATA MERGFINQ MISSING;
  MERGE MERGFINQ(IN=IN1) ORDER(IN=IN2);
  BY KEY;

  LENGTH FLAG $30;
  IF IN1 AND IN2 THEN FLAG = "IN SCORES DB AND LAYOUT";
  ELSE IF IN1 THEN FLAG = "IN SCORES DB ONLY";
  ELSE IF IN2 THEN FLAG = "IN LAYOUT ONLY";

  LENGTH SOURCE $30;
  IF SVCAHPQ = 1 THEN SOURCE = "CAHPS ";
  IF SVMPRQ = 1 THEN SOURCE = "MPR ";
  IF SVBENQ = 1 THEN SOURCE = "BENCHMARK ";

  IF IN1 AND NOT IN2 THEN OUTPUT MISSING; *Missing from layout;
  IF IN1 THEN OUTPUT MERGFINQ;
RUN;

*****
* Reorder file according to WEB layout
*****;
PROC SORT DATA=MERGFINQ OUT=OUT.MERGFINQ; BY ORDER; RUN;

DATA FAKEQ;
  SET IN1.FAKEQ;
  ORDER = _N_;
RUN;

DATA LAYONLY;
  MERGE FAKEQ(IN=IN1) OUT.MERGFINQ(IN=IN2 KEEP=ORDER);
  BY ORDER;
  IF IN1 AND NOT IN2;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: MERGFINQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB Layout";
TITLE4 "Program Outputs: MERGFINQ.sas7bdat - Merged Final Scores Database for input to
MAKEHTML.SAS";

TITLE5 "MERGFINQ.sas7bdat Data source counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES SOURCE FLAG SVCAHPQ SVMPRQ SVBENQ
      SVCAHPQ*SVMPRQ*SVBENQ
      /MISSING LIST;
RUN;

TITLE5 "MERGFINQ.sas7bdat Data attribute counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/23/03 Added TIMEPD*/
      REGION*REGCAT
      /MISSING LIST;
RUN;

TITLE5 "LAYONLY Data attribute counts";
PROC FREQ DATA=LAYONLY;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/23/03 Added TIMEPD*/
      REGION*REGCAT
      /MISSING LIST;
RUN;

TITLE5 "No matching record found in LAYOUT file (FAKEQ.sas7bdat)";
PROC PRINT DATA=MISSING;
VAR MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD; ***MJS 07/23/03 Added TIMEPD;
RUN;

```

I.6 Q4FY2010\PROGRAMS\PURCHASEDLOADWEB\CONUS_Q.SAS - GENERATE CAHPS CONUS SCORES AND PERFORM SIGNIFICANCE TESTS - RUN QUARTERLY.

```
*****
*
* PROGRAM: CONUS_Q.SAS
* TASK: Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE: Generate CAHPS CONUS scores and perform significance tests.
*
* WRITTEN: 11/13/2000 BY KEITH RATHBUN, Adapted from CONUS_A.SAS.
* Merged SIGNIF_A.SAS funtionality.
*
* MODIFIED: 1) 04/10/2002 BY KEITH RATHBUN, Update for 2002 survey:
* changed code to process 4 rolling quarters.
* 2) 04/30/2002 By Eric Schone, to calculate & test trend.
* 3) 07/17/2002 BY MIKE SCOTT, Updated %LET statements for
* Q2 2002.
* 4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
* 5) 07/08/2003 BY MIKE SCOTT, Updated for Q2 2003. Changed BENTYPE="%PERIOD4"
* to BENTYPE="Composite". Added TIMEPD to KEY and FREQ.
* 6) 07/23/2003 BY MIKE SCOTT, Added TIMEPD constraint to DATA LASTQTR.
* 7) 10/21/2003 BY MIKE SCOTT, Updated for Q3 2003.
* 8) 01/07/2004 BY MIKE SCOTT, Updated for Q4 2003.
* 9) 01/28/2004 BY MIKE SCOTT, Updated LSTCONUS to point to Q3_2003t.
* 10) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
* 11) 06/22/2004 BY REGINA GRAMSS, Updated for Q2 2004, Added conditions
* to avoid error messages in data sigtest2 step (ensure degree of freedom
* is not zero for the probt function) and data trend steps (ensure division
* by zero is not taking place).
* 12) 09/2004 BY REGINA GRAMSS, Updated for Q3, 2004. Added in codes
* for trend calculations (per Eric Schone). Revised to use XTNEXREG.
* 13) 01/2005 BY REGINA GRAMSS, Changed codes for XTNEXREG to XSERVREG
* to incorporate service affiliation into regions. Change
* adjustments made to trend calculation to what was previous.
* 14) 06/2005 BY REGINA GRAMSS, Included relevant codes from TOTAL_Q.SAS
* to consolidate both programs into one. TOTAL_Q.SAS will no longer
* be used. Also put in codes to set trend score to missing if any of the
* previous scores are missing.
* 15) 10/2005 BY REGINA GRAMSS, Updated for Q3 2005
* 16) 12/2005 BY REGINA GRAMSS, Updated for Q4 2005
* 17) 07/2006 BY Justin Oh, Updated for Q3 FY 2006
* 18) 10/03/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 19) 12/20/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 20) 02/02/2007 By Justin Oh - Added "s" to Healthy Behaviors.
* 21) 02/16/2007 By Justin Oh - Added if statement to change BENEFIT
* "Heathly Behavior" to Healthy "Behaviors" for the Last CONUS_Q.SD2 data
* 22) 04/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 23) 04/05/2007 by Justin Oh - Added %LET BCHTYPE to select BCH types
* Benchmark OR PurchasedBenchmark.
* 24) 04/05/2007 by Justin Oh - Added changes to select RC types
* ReportCards OR PurchasedReportCards.
* 25) 10/03/2007 by Justin Oh - Removed code that removed Civilian PCM.
* IF "&RCTYPE" = 'ReportCards' AND
* MAJGRP="Enrollees with Civilian PCM" THEN DELETE;
* 26) 10/03/2007 by Justin Oh - Removed %LET BCHTYPE to select BCH types
* Benchmark OR PurchasedBenchmark.
* 27) 09/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 28) 01/10/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 29) 04/11/2008 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 30) 10/02/2008 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS.
* 31) 01/06/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS
* 32) 01/16/2009 By Mike Rudacille - Changed CONUS to USA where appropriate
* 33) 03/11/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
* Changed %LET LSTCONUS
* 34) 04/11/2009 By Mike Rudacille - Changed BENTYPE and Composite definitions
```

```

*          to reflect modifications to beneficiary reports necessary for V4
*          35) 06/22/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*          36) 09/30/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*          37) 12/17/2010 by Emma Ernst- Changed %LET PERIOD1 - PERIOD4.
*              Changed %LET LSTCONUS
*          38) 03/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*          39) 06/19/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*          40) 08/28/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
*              Changed %LET LSTCONUS
*
* INPUTS:  1) MERGFINQ.sas7bdat - Scores Database in WEB Layout
*          2) FAKQ.sas7bdat - Scores Database WEB Layout
*          3) CONUS_Q.sas7bdat - Previous Quarters Combined CAHPS/MPR Scores Database in WEB
layout
*
* OUTPUT:  1) TOTAL_Q.sas7bdat - Combined CAHPS/MPR Scores Database in WEB layout
*          2) LT30Q.sas7bdat - Records with <= 30 observations
*          3) CONUS_Q.sas7bdat - Current Quarters Combined CAHPS/MPR Scores Database in WEB
layout
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1Q.SAS - Recode questions and generate group files
*   - STEP2Q.SAS - Calculate individual adjusted scores for group 1-7
*   - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*   - LOADCAHPQ.SAS - Combine all questionnaire (CAHPS) scores together
*   - PRVCOMPQ.SAS - Calculate preventative measure scores for group1-8
*   - SMOKING_BMI.SAS - Calculate healthy behaviors scores for group1-8
*   - LOADMPRQ.SAS - Combined preventative and healthy behaviors scores
*   - MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases
*
*****
* Assign data libraries and options
*****;

LIBNAME IN1  ".";
LIBNAME OUT  ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT MLOGIC;

*****;
* Define GLOBAL parameters for last CONUSQ.sas7bdat, rolling quarters, and
* input dataset name.
*
* IMPORTANT: Update these GLOBALS each quarter prior to rerunning program.
*****;
%LET LSTCONUS = ..\..\Q3FY2010t\Programs\PurchasedLoadweb;

%LET PERIOD1 = October, 2009;
%LET PERIOD2 = January, 2010;
%LET PERIOD3 = April, 2010;
%LET PERIOD4 = July, 2010;

%LET DSN      = MERGFINQ;

*****;
* Set up empty template file for data merge purposes and set first time flag
*****;
DATA INIT;
  SET IN1.&DSN;
  DELETE;
RUN;
%LET FLAG = 0;
*****
*
* Process Macro Input Parameters:
*
* 1) BENTYPE = Benefit Type

```

```

* 2) MAJGRP = Major Group
* 3) TYPE = INDIVIDUAL or COMPOSITE
* 4) BENEFIT = COMPOSITE Benefit Type
*
*****;
%MACRO PROCESS(BENTYPE=,MAJGRP=,TYPE=,BENEFIT=);
DATA TEMP;
  SET IN1.&DSN END=FINISHED;
  %IF "&TYPE" = "INDIVIDUAL" %THEN %DO;
    WHERE BENTYPE = "&BENTYPE" AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
      /*SUBSTR(REGION,1,5) NOT IN("Bench","USA") AND*/
      /*SUBSTR(REGCAT,1,5) NOT IN("Bench","USA") AND*/
      SUBSTR(REGION,1,5) NE "Bench" AND SUBSTR(REGION,1,3) NE "USA" AND
      SUBSTR(REGCAT,1,5) NE "Bench" AND SUBSTR(REGCAT,1,3) NE "USA" AND
      REGION NOT IN ("ARMY","AIR FORCE","NAVY","OTHER");
  %END;
  %ELSE %IF "&TYPE" = "COMPOSITE" %THEN %DO;
    WHERE BENTYPE = &BENTYPE AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
      BENEFIT = "&BENEFIT" AND
      /*SUBSTR(REGION,1,5) NOT IN("Bench","USA") AND*/
      /*SUBSTR(REGCAT,1,5) NOT IN("Bench","USA") AND*/
      SUBSTR(REGION,1,5) NE "Bench" AND SUBSTR(REGION,1,3) NE "USA" AND
      SUBSTR(REGCAT,1,5) NE "Bench" AND SUBSTR(REGCAT,1,3) NE "USA" AND
      REGION NOT IN ("ARMY","AIR FORCE","NAVY","OTHER");
  %END;
  %ELSE %DO;
    PUT "ERROR - Invalid Type = &TYPE";
  %END;

  IF SUBSTR(REGION,1,5) IN ('North','South') THEN DO;
    IF SUBSTR(REGION,1,5)='North' THEN REGCON=1;
    ELSE IF SUBSTR(REGION,1,5)='South' THEN REGCON=2;
    TOTCON=1;
    IF SUBSTR(REGION,7,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,7,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,7,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,4)='West' THEN DO;
    REGCON=3;
    TOTCON=1;
    IF SUBSTR(REGION,6,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,6,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,6,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,6)='Europe' THEN DO;
    REGCON=4;
    TOTCON=2;
    IF SUBSTR(REGION,8,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,8,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,8,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,7)='Pacific' THEN DO;
    REGCON=5;
    TOTCON=2;
    IF SUBSTR(REGION,9,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,9,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,9,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,13)='Latin America' THEN DO;
    REGCON=6;
    TOTCON=2;
    IF SUBSTR(REGION,15,4)='Army' THEN SERVICE=1;
    ELSE IF SUBSTR(REGION,15,9)='Air Force' THEN SERVICE=2;
    ELSE IF SUBSTR(REGION,15,4)='Navy' THEN SERVICE=3;
    ELSE SERVICE=4;
  END;
END;

```

```
RUN;
```



```

*****;
* RSG 01/2005 Calc. total Service Affiliation Scores          *;
*****;
PROC SORT DATA=TEMP;
BY SERVICE;

DATA TEMP2;
SET TEMP;
BY SERVICE;
length key $200;
IF FIRST.SERVICE THEN DO;
SUMSCOR1 = 0;    RETAIN SUMSCOR1;
SUMWGT1 = 0;    RETAIN SUMWGT1;
SUMSE2 = 0;    RETAIN SUMSE2;
SUMWGT2 = 0;    RETAIN SUMWGT2;
N_OBS1 = 0;    RETAIN N_OBS1;
END;

IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
IF N_OBS NE . THEN N_OBS1 + N_OBS;

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY;    ***MJS 07/08/03 Added TIMEPD;

IF LAST.SERVICE THEN DO;

IF SUMWGT1 NOTIN (.,0) THEN DO;
SCORE = SUMSCOR1/SUMWGT1;
SEMEAN = SQRT(SUMSE2)/SUMWGT1;
END;
ELSE DO;
SCORE = .;
SEMEAN = .;
END;

N_OBS = N_OBS1;
N_WGT = SUMWGT1;
SOURCE = "USA";
FLAG = "USA";
IF SERVICE=1 THEN REGION = "ARMY";
IF SERVICE=2 THEN REGION = "AIR FORCE";
IF SERVICE=3 THEN REGION = "NAVY";
IF SERVICE=4 THEN REGION = "OTHER";
REGCAT = REGION;
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/08/03 Added TIMEPD;
OUTPUT;
END;
RUN;
*****;
* RSG 01/2005 Calc. Total Region scores          *;
*****;
PROC SORT DATA=TEMP;
BY REGCON;
DATA TEMP3;
SET TEMP;
BY REGCON;
length key $200;
IF FIRST.REGCON THEN DO;
SUMSCOR1 = 0;    RETAIN SUMSCOR1;
SUMWGT1 = 0;    RETAIN SUMWGT1;
SUMSE2 = 0;    RETAIN SUMSE2;
SUMWGT2 = 0;    RETAIN SUMWGT2;
N_OBS1 = 0;    RETAIN N_OBS1;
END;

IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
IF N_OBS NE . THEN N_OBS1 + N_OBS;

```

```

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;

IF LAST.REGCON THEN DO;

    IF SUMWGT1 NOTIN (.,0) THEN DO;
        SCORE = SUMSCOR1/SUMWGT1;
        SEMEAN = SQRT(SUMSE2)/SUMWGT1;
    END;
    ELSE DO;
        SCORE = .;
        SEMEAN = .;
    END;
    N_OBS = N_OBS1;
    N_WGT = SUMWGT1;
    SOURCE = "REGION";
    FLAG = "REGION";
    IF REGCON=1 THEN REGION = "NORTH";
    IF REGCON=2 THEN REGION = "SOUTH";
    IF REGCON=3 THEN REGION = "WEST";
    IF REGCON=4 THEN REGION = "Overseas Europe";
    IF REGCON=5 THEN REGION = "Overseas Pacific";
    IF REGCON=6 THEN REGION = "Overseas Latin America";

    REGCAT = REGION;
    KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
    OUTPUT;
END;
RUN;

*****;
* RSG 01/2005 Calc. Total CONUS Scores *;
* MER 01/2009 Changed CONUS to USA *;
*****;
PROC SORT DATA=TEMP;
BY TOTCON;
DATA TEMP4;
SET TEMP END=FINISHED;
BY TOTCON;
length key $200;
IF FIRST.TOTCON THEN DO;
SUMSCOR1 = 0; RETAIN SUMSCOR1;
SUMWGT1 = 0; RETAIN SUMWGT1;
SUMSE2 = 0; RETAIN SUMSE2;
SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN N_OBS1;
END;

IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
IF N_OBS NE . THEN N_OBS1 + N_OBS;

IF LAST.TOTCON THEN DO;

    IF SUMWGT1 NOTIN (.,0) THEN DO;
        SCORE = SUMSCOR1/SUMWGT1;
        SEMEAN = SQRT(SUMSE2)/SUMWGT1;
    END;
    ELSE DO;
        SCORE = .;
        SEMEAN = .;
    END;
    N_OBS = N_OBS1;
    N_WGT = SUMWGT1;
    SOURCE = "USA";
    FLAG = "USA";

```

```

IF TOTCON=1 THEN REGION = "USA MHS";
IF TOTCON=2 THEN REGION = "OVERSEAS";
REGCAT = REGION;
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
OUTPUT;
END;
KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;

RUN;

%IF &FLAG = 0 %THEN %DO;
  DATA FINAL;
    SET INIT TEMP2 TEMP3 TEMP4;
  RUN;
%END;
%ELSE %DO;
  DATA FINAL;
    SET FINAL TEMP2 TEMP3 TEMP4;
  RUN;
%END;
%LET FLAG = 1;

%MEND;

*****
* Create CONUS for Active Duty - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);

*****
* Create CONUS for Active Duty Dependents - Individual
*****;
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);

*****
* Create CONUS for Enrollees with Civilian PCM - Individual
*****;

```

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);

```

* Create CONUS for Enrollees with Military PCM - Individual

*****;

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);

```

* Create CONUS for Non-enrolled Beneficiaries - Individual

*****;

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);

```

```

%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Prime Enrollees - Individual
*****;

```

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Retirees and Dependents - Individual
*****;

```

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for All Beneficiaries - Individual
*****;

```

```

%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

```

```

*****
* Process Quarterly CONUS Composites
*****
*****
* Create CONUS for Claims Processing - Quarterly
*****;

```

```

%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Claims
Processing); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Claims
Processing);

```

```

*****
* Create CONUS for Customer Service - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty ,
TYPE=COMPOSITE,BENEFIT=Customer Service); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to
BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents ,
TYPE=COMPOSITE,BENEFIT=Customer Service);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Customer Service);

```

```

*****
* Create CONUS for Getting Care Quickly - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Care Quickly);

```

```

*****
* Create CONUS for Getting Needed Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);

```

```
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
```

```
*****
* Create CONUS for Health Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Health
Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Care);
```

```
*****
* Create CONUS for Health Plan - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Health
Plan); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Health
Plan);
```

```
*****
* Create CONUS for How Well Doctors Communicate - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=How
Well Doctors Communicate);
```

```
*****
* Create CONUS for Primary Care Manager - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
```

```

%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Primary
Care Manager);

```

```

*****
* Create CONUS for Specialty Care - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty ,
TYPE=COMPOSITE,BENEFIT=Specialty Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to
BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries ,
TYPE=COMPOSITE,BENEFIT=Specialty Care);

```

```

*****
* Extract ORDER and KEY from the WEB Layout file. TEMPQ will be used
* as place holders for missing records. FAKEQ will be used for adding
* new records.
*****;
DATA FAKEQ;
  SET IN1.FAKEQ;
    length key $200;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;

```

```

RUN;
PROC SORT DATA=FAKEQ OUT=TEMPQ; BY KEY; RUN;
PROC SORT DATA=FAKEQ(KEEP=ORDER KEY); BY KEY; RUN;

```

```

*****
* Append BENCHMARK records to CAHPS records and perform significance tests
*****;
DATA BENCHMRK(KEEP=MAJGRP BENEFIT BENTYPE SEMEAN SCORE);
  SET IN1.&DSN;
  WHERE SUBSTR(REGION,1,5) = "Bench" AND SVMPRQ = 0;
RUN;
Data abnchmrk(keep=benefit bentype ascore);
set benchmrk;
where upcase(majgrp)='ALL BENEFICIARIES';
rename score=ascore;
run;
proc sort; by benefit bentype;
proc sort data=benchmrk; by benefit bentype;
data benchmrk;
merge benchmrk abnchmrk; by benefit bentype;run;
PROC SORT DATA=BENCHMRK; BY MAJGRP BENEFIT BENTYPE; RUN;

```

```

PROC SORT DATA=FINAL; BY KEY; RUN;

```

```

DATA CONUS_Q;
  MERGE FINAL(IN=IN1) FAKEQ(IN=IN2);
  BY KEY;

```



```

IF IN1;
RUN;
PROC SORT DATA=CONUS_Q; BY MAJGRP BENEFIT BENTYPE; RUN;

*****
* Perform significance tests for CONUS scores
*****;
DATA SIGTEST1;
  MERGE CONUS_Q(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  length key $200;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1)); /** RSG 06/22/2004 - PUT CONDITION
TO AVOID DF=0 WHICH CAUSES ERROR FOR PROBT FUNCTION **/
  ELSE TEST = .; /** RSG 06/22/2004 - ADDED FOR CASES WITH N_OBS = 1 OR LESS SINCE PROBT CAN'T
BE PERFORMED AND WOULD RESULT IN TEST = MISSING ANYWAY **/
  SIG = 0;
  IF TEST < 0.05 AND TEST NE . THEN SIG = 1; /** RSG 06/22/2004 - ADDED CONDITION "TEST NE ."
IN CASE MISSING IS CONSIDERED LESS THAN 0.05 **/
  IF SCORE < BSCORE THEN SIG = -SIG;

  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
  SOURCE = "USA_Q";
  FLAG = "USA_Q";
  IF SIN;
  score=score+ascore-bscore;
RUN;
PROC SORT DATA=SIGTEST1; BY KEY; RUN;

*****
* Extract CAHPS scores to perform significance tests
*****;
DATA CAHPS MPR bench;
  SET IN1.&DSN;
  *****
  * Significance tests have already been performed for MPR scores,
  * so remove from file.
  *****;
  IF SVMPRQ = 1 THEN OUTPUT MPR;
  IF SVMPRQ = 0 THEN do;
    if majgrp ne 'Benchmark' then OUTPUT CAHPS;
    else output bench; end;
RUN;

PROC SORT DATA=CAHPS;
  BY MAJGRP BENEFIT BENTYPE;
RUN;

*****
* Perform significance tests for CAHPS scores
*****;
DATA SIGTEST2;
  MERGE CAHPS(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1)); /** RSG 06/22/2004 PUT N_OBS > 1
CONDITION TO AVOID ERRORS BECAUSE PROBT CAN NOT HANDLE DF=0 **/
  ELSE TEST = .;
  SIG = 0;
  IF N_OBS >= 30 AND TEST < 0.05 THEN SIG = 1;
  IF SCORE < BSCORE THEN SIG = -SIG;
  IF SIN;
  score=score+ascore-bscore;
RUN;
proc sort data=bench; by majgrp benefit bentype;
data sigtest2;
set sigtest2 bench; by majgrp benefit bentype;
PROC SORT DATA=SIGTEST2; BY KEY; RUN;

*****

```

```

* When NOT 1st quarter: Get records from previous quarters
*****;
%MACRO LASTQTR;
*****
* Input composite records from previous quarters.
*****;
LIBNAME IN2 "&LSTCONUS";
DATA LASTQTR (drop=key2); /*RSG 10/2005 - KEY2 WAS CREATED AT END OF PROG TO HELP
                        SET TREND TO MISSING FOR SCORES MISSING IN ANY QUARTERS
                        THIS SHOULD BE DROPPED AND RESET AT THE END OF PROG*/
SET IN2.CONUS_Q (DROP=KEY);

/**** Change BENEFIT "Heathly Behavior" to Healthy "Behaviors" JSO 02/16/2007 ****/
IF BENEFIT = 'Healthy Behavior' THEN BENEFIT = 'Healthy Behaviors';

/**** Change SOURCE and FLAG from "CONUS_Q" to "USA_Q" MER 01/29/2009 ****/
/**** Change REGION and REGCAT from "CONUS MHS to USA MHS" MER 01/29/2009 ****/
IF SOURCE = 'CONUS_Q' THEN SOURCE = 'USA_Q';
IF FLAG = 'CONUS_Q' THEN FLAG = 'USA_Q';
IF REGION = 'CONUS MHS' THEN REGION = 'USA MHS';
IF REGCAT = 'CONUS MHS' THEN REGCAT = 'USA MHS';

IF timepd IN ("&PERIOD1", "&PERIOD2", "&PERIOD3") AND
(REGION = REGCAT) AND
BENEFIT IN ("Getting Needed Care",
            "Getting Care Quickly",
            "How Well Doctors Communicate",
            "Customer Service",
            "Claims Processing",
            "Health Care",
            "Health Plan",
            "Primary Care Manager",
            "Specialty Care",
            "Preventive Care",
            "Healthy Behaviors") & TIMEPD NE "Trend";

KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));

RUN;
%MEND LASTQTR;
%LASTQTR;

PROC SORT DATA=LASTQTR(DROP=ORDER); BY KEY; RUN;

DATA LASTQTR;
MERGE TEMPQ(IN=IN1) LASTQTR(IN=IN2);
BY KEY;
IF IN1 AND IN2;
RUN;

PROC SORT DATA=MPR; BY KEY; RUN;

*****
* Combine previously created records with the new file
*****;
DATA COMBINE OUT.LT30Q;
SET SIGTEST1 SIGTEST2 LASTQTR MPR;
BY KEY;
if timepd="&period1" then period=1;   ***MJS 07/08/03 Changed from bentype="&period1";
if timepd="&period2" then period=2;   ***MJS 07/08/03 Changed from bentype="&period2";
if timepd="&period3" then period=3;   ***MJS 07/08/03 Changed from bentype="&period3";
if timepd="&period4" then period=4;   ***MJS 07/08/03 Changed from bentype="&period4";
*****
* Remove N_OBS < 30 OR N_WGT < 200
*****;
IF (N_OBS < 30 OR N_WGT < 200) AND (MAJGRP NE "Benchmark") AND
(REGION NE "Benchmark")
THEN OUTPUT OUT.LT30Q;
ELSE OUTPUT COMBINE;
RUN;

```

```

data trend;
set combine;
where period ne . ;
if period<4|benefit="Preventive Care" then score=score/100;

proc sort data=trend;
by majgrp region regcat benefit bentye period;
run;

data avg(keep=majgrp region regcat benefit t_obs a_period a_score twgt bentye) ;
set trend; by majgrp region regcat benefit bentye period;
if majgrp="Benchmark"|region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentye then do;
t_obs=0;
t_score=0;
twgt=0;
t_period=0;
end;
t_obs+n_obs;
t_Score+n_wgt*score;
twgt+n_wgt;
t_period+period*n_wgt;
if last.majgrp|last.region|last.regcat|last.benefit|last.bentye then do;
if twgt notin (.,0) then do;
a_score=t_score/twgt;
a_period=t_period/twgt;
end;
else do;
a_score=.;
a_period=.;
end;
output;
end;
RUN;

data trend2(drop=score) btrend(keep=majgrp benefit bentye trend serr);
merge trend avg; by majgrp region regcat benefit bentye;
if majgrp="Benchmark"|region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentye then do;
t_score=0;
t_se=0;
t_period=0;
end;
t_se+((n_wgt**2)*(semean**2));
t_score+n_wgt*(score-a_score)*(period-a_period);
t_period+n_wgt*(period-a_period)**2;
if last.majgrp|last.region|last.regcat|last.benefit|last.bentye then do;
if t_period ne 0 then do; /* RSG 06/22/2004 Added to avoid division by zero*/
trend=t_score/t_period;
serr=sqrt(t_se/(t_period*twgt));
end;
else do;
trend=.;
serr=.;
end;
if region="Benchmark"|majgrp="Benchmark" then output btrend;
output trend2;
end;
proc sort data=trend2; by majgrp benefit bentye;RUN;
proc sort data=btrend; by majgrp benefit bentye;
data trend3(rename=(trend=score));
merge trend2 btrend(rename=(trend=btrend serr=bserr));
by majgrp benefit bentye;
length key $200;
if ^(region="Benchmark"|majgrp="Benchmark") then do;
ttrend=trend-btrend;
serr=sqrt((serr**2)+(bserr**2));
sig=0;
if serr > 0 and t_obs notin (.,0) then test= 2*(1-probt(abs(ttrend/serr),t_obs)); /* RSG
06/22/2004 Added to avoid division by zero*/
else test = .;
if test<.05 & test ne . then sig=1;
if sig=1 & ttrend<0 then sig=-1;

```

```

end;
timepd="Trend";
KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
run;

proc sort data=trend3(drop=t_obs twgt a_score a_period t_score t_se t_period serr
bserr btrend ttrend order); by key;
data trend4 ;
merge trend3(in=din) fakeq(in=cin); by key;
if din;
RUN;

data combine2;
set combine trend4;RUN;

proc sort; by key;
data combine3 dupe;
set combine2; by key;
if ^(first.key & last.key) then output dupe;
output combine3;
proc print data=dupe;run;

/* RSG 06/2005 - set trend to missing for component/composite
scores with missing scores in any of the quarter*/
data misses (keep=key2) all;
set combine3;
length key2 $200.;
KEY2 = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
      UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
      UPCASE(TRIM(REGION));
if score = . then output misses;
output all;
run;
proc sort data=misses;
by key2;
proc sort data=all;
by key2;
run;

data combine4;
merge all (in=a) misses (in=b);
by key2;
if a and b then do;
if timepd = "Trend" then score = .;
end;
run;

*****
* Create place holders for missing records
*****;
DATA FAKEONLY;
MERGE COMBINE4(IN=IN1) TEMPQ(IN=IN2);
BY KEY;
SOURCE = "FAKE ONLY";
FLAG = "FAKE ONLY";
IF IN2 AND NOT IN1;

RUN;

*****
* Combine all of the missing records with the existing records to generate
* the complete WEB layout file.
*****;
DATA CONUS_Q;
SET FAKEONLY COMBINE4;
BY KEY;
*****
* Convert CAHPS Composites and Individual to 1-100 scale
*****;
IF timepd="Trend" OR (timepd="PERIOD4" & benefit ne "Preventive Care")
then

```

```

        SCORE = SCORE*100;
RUN;

PROC SORT DATA=CONUS_Q; BY ORDER; RUN;

DATA FAKEQ;
  SET IN1.FAKEQ;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
        UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));    ***MJS 07/31/03 Added TIMEPD;

RUN;
PROC SORT DATA=FAKEQ OUT=TEMPQ;          BY KEY; RUN;
PROC SORT DATA=FAKEQ(KEEP=ORDER KEY); BY KEY; RUN;

PROC SORT DATA=CONUS_Q out=OUT.CONUS_Q;
BY KEY;
RUN;

DATA FAKEONLY;
  MERGE OUT.CONUS_Q(IN=IN1) TEMPQ(IN=IN2);
  BY KEY;
  SOURCE = "FAKE ONLY";
  FLAG   = "FAKE ONLY";
  IF IN2 AND NOT IN1;
RUN;

DATA TOTAL_Q;
  SET FAKEONLY OUT.CONUS_Q;
  BY KEY;
  IF MAJGRP="All Beneficiaries" then MAJGRP="All Users";
  IF MAJGRP="Non-enrolled Beneficiaries" then MAJGRP="Standard/Extra Users";
  IF BENEFIT="Primary Care Manager" THEN BENEFIT="Personal Doctor"; /*MJS 02/05/2003*/
  /* 11/14/2005 RSG - ADDED IN THESE CODE TO CAPITALIZE ALL WORDS IN TITLE */
  /*IF BENTYPE = "Problems Getting Referral to Specialist"
    THEN BENTYPE = "Problems Getting Referral To Specialist" ";
  IF BENTYPE = "Delays in Care while Awaiting Approval"
    THEN BENTYPE = "Delays In Care While Awaiting Approval" ";
  IF BENTYPE = "Advice over Telephone"
    THEN BENTYPE = "Advice Over Telephone" ";
  IF BENTYPE = "Wait for Routine Visit"
    THEN BENTYPE = "Wait For Routine Visit" ";
  IF BENTYPE = "Wait for Urgent Care"
    THEN BENTYPE = "Wait For Urgent Care" ";
  IF BENTYPE = "Wait More than 15 Minutes Past Appointment"
    THEN BENTYPE = "Wait More Than 15 Minutes Past Appointment";
  IF BENTYPE = "Explains so You can Understand"
    THEN BENTYPE = "Explains So You Can Understand" ";
  IF BENTYPE = "Spends Time with You"
    THEN BENTYPE = "Spends Time With You" ";
  IF BENTYPE = "Courteous and Respectful"
    THEN BENTYPE = "Courteous And Respectful" ";
  IF BENTYPE = "Problem Getting Help from Customer Service"
    THEN BENTYPE = "Problem Getting Help From Customer Service";
  IF BENTYPE = "Problem with Paperwork"
    THEN BENTYPE = "Problem With Paperwork" ";
  IF BENTYPE = "Claims Handled in a Reasonable Time"
    THEN BENTYPE = "Claims Handled In A Reasonable Time" */;
  IF substr(region,1,5) in ('Latin','Europ','Pacif')|Region='Overseas Latin America'
  then delete;

RUN;

PROC SORT DATA=TOTAL_Q OUT=OUT.TOTAL_Q; BY ORDER; RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6401-904)";
TITLE2 "Program Name: CONUS_Q.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFINQ.sas7bdat - Scores Database in WEB Layout";
TITLE4 "Program Outputs: TOTAL_Q.sas7bdat - USA Scores Database in WEB layout";

PROC FREQ;

```

```
TABLES SIG FLAG SOURCE BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/08/03 Added  
TIMEPD*/  
      REGION*REGCAT  
      /MISSING LIST;  
RUN;
```

APPENDIX J

**SAS CODE FOR 2010 TRICARE PURCHASED CARE CONSUMER WATCH -
QUARTERS I-IV AND COMBINED ANNUAL**

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J.1.A Q4FY2010\PROGRAMS\PURCHASEDCONSUMERWATCH\CONSUMERWATCH_PURCHASEDCARE.SAS - RUN PURCHASED CARE TRICARE CONSUMER WATCH REPORTS - RUN QUARTERLY.

```
*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH_PurchasedCare.SAS
* PURPOSE: CALL CONSUMERWATCH MACRO PROGRAM
*          TO PRODUCE EXCEL TABLE FOR PURCHASED CARE REPORT.
*
* WRITTEN: 02/10/2005 BY LUCY LU FOR Q4 2004.
*
* UPDATE: 4/26/2005 FOR Q1 2005.
* UPDATE: 8/4/2005 FOR Q2 2005.
* UPDATE: 12/15/2005 FOR Q4 2005.
* UPDATE: 04/04/2006 FOR Q2 FISCAL YEAR 2006, LUCY Lu. STARTING THIS QUARTER,
*          THE PERIOD IS CHANGED TO FISCAL YEAR.
* UPDATE: 09/01/2006 Lucy Lu FOR FY 3 2006.
* UPDATE: 10/05/2006 Lucy Lu FOR FY 4 2006.
* MODIFIED 7/30/2007 BY LUCY LU
*          UNIFY THE PERIOD MACRO VARIABLES WITH BENEFICIARY REPORT CARDS PROGRAMS
*          CURRNT ==> PERIOD4
*          CURRNTQ ==> PERIOD4Q
*          PREV1 ==> PERIOD3
*          PREV1Q ==> PERIOD3Q
*          PREV2 ==> PERIOD2
*          PREV2Q ==> PERIOD2Q
*          PREV3 ==> PERIOD1
*          PREV3Q ==> PERIOD1Q
* MODIFIED 8/29/2007 BY LUCY LU TO RUN CONSUMERWATCH_MACRO_COMB.INC
*          STARTING Q4 2007 CONSUMERWATCH_R(REGION) AND CONSUMERWATCH_CONUS RUN A SINGLE
*          MACRO TO PRODUCE CHARTS FOR BOTH PRIME ENROLLEES AND CIVILIAN PCM POPULATION
* MODIFIED 5/14/09 BY LUCY LU
*          1.MACRO INCLUDE PROGRAM IS MODIFIED BY REMOVING THE VALUE OF
*            'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
*            RELATED CODE.
*          2.THE EXCEL AND WORD TEMPLATES ARE MODIFIED TO REMOVE THE CHARTS
*            FOR 'Courteous and Helpful Office Staff'.
* MODIFIED 7/23/2010 LUCY
*          Rename CONSUMERWATCH_MACRO_COMB.INC to
*            CONSUMERWATCH_PurchasedCare_MACRO.INC
*          MODIFY MACRO VARIABLES TO REFLECT THE CHANGE OF INCLUDE MACRO
*          PROGRAM. SEE consumerwatch_PurchasedCare_macro.inc FOR DETAILS.
*          1.CONSolidATE USMHS AND REGION PROGRAMS INTO ONE SAS PROGRAM.
*          2.REPLACE PERIOD MACRO VARIABLES WITH CURRENTQ AND CURRENTY.
*
* INPUT  : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\DAT.LOADWEB\TOTAL_Q.SD2
*
* OUTPUT : INTO EXCEL SPREADSHEET
*
* PROGRAM TO CALL: CONSUMERWATCH_PURCHASEDCARE_MACRO.INC
*****;
```

```
/* LIBNAME IS EMBEDDED IN MACRO PROGRAM */
```

```
*starting 2006, the period is changed to fiscal year, LLU 4/5/06;
```

```
%LET CURRENTQ=4;          *CURRENT FISCAL QUARTER;
%LET CURRENTY=2010;       *CURRENT FISCAL YEAR;
%LET PATH = L:\Q4FY2010\Programs\PurchasedConsumerWatch; *TEMP;
%LET PATH = L:\Q&CURRENTQ.FY&CURRENTY.\Programs\PurchasedConsumerWatch;
```

```
TITLE "DOD PURCHASED CARE CONSUMER WATCH Q&CURRENTQ, FY &CURRENTY";
```

```
%INCLUDE "CONSUMERWATCH_PURCHASEDCARE_MACRO.INC";
```

```
*%RUNCW(AREA=USA MHS,FOLDER=USMHS);
```

```
%RUNCW(FOLDER=NORTH);
%RUNCW(FOLDER=SOUTH);
%RUNCW(FOLDER=WEST);
```

J.1.B Q4FY2010\PROGRAMS\PURCHASEDCONSUMERWATCH\CONSUMERWATCH_PURCHASEDCARE_MACRO.INC - PRODUCE NUMBERS FOR
PURCHASED CARE TRICARE CONSUMER WATCH REPORTS.

```
*****
* PROJECT: 6077-420
* PROGRAM: consumerwatch_purchasedCare_macro.inc
* PURPOSE: To produce numbers that go into data sheet in Excel to produce graphs
*         for regional consumer watch
* AUTHOR : MIKI SATAKE
* DATE   : 4/24/01
* UPDATED: 7/16/01 FOR QUARTER 2 BY NATALIE JUSTH
* UPDATED: 10/16/01 FOR QUARTER 3 BY NATALIE JUSTH
* UPDATED: 1/11/02 FOR QUARTER 4 BY NATALIE JUSTH
* UPDATED AND RENAMED: 4/9/02 FOR QUARTER 1 2002 BY NATALIE JUSTH
* UPDATED: 7/5/02 FOR QUARTER 2 2002 BY NATALIE JUSTH
* UPDATED: 7/15/02 FOR QUARTER 3 2002 BY NATALIE JUSTH
* UPDATED: 11/12/02 FOR QUARTER 4 2002 BY NATALIE JUSTH
* UPDATED: 4/3/03 FOR QUARTER 1 2003 BY NATALIE JUSTH
* UPDATED: 5/19/03 FOR QUARTER 2 2003 BY NATALIE JUSTH
* UPDATED: 8/28/03 FOR QUARTER 3 2003 BY NATALIE JUSTH
* UPDATED: 11/14/03 FOR QUARTER 4 2003 BY NATALIE JUSTH
* UPDATED: 05/18/2004 FOR QUARTER 1 2004 BY KEITH RATHBUN
* UPDATED: 06/30/2004 FOR QUARTER 2 2004 BY LUCY LU
* UPDATED: 06/30/2004 FOR QUARTER 3 2004 BY LUCY LU. CHANGING XREGION TO XTNEJREG.
* UPDATED: 10/07/2004 BY LUCY LU. ADD THE CODE TO COMPARE CONSUMER WATCH
*         WITH REPORT CARDS IN SCORES AND SIGNIFICANCE.*
* MODIFIED 2/10/05 BY LUCY LU:
*         1). CREATE UNIVERSAL MACRO PROGRAM BASED ON PROGRAM CONSUMERWATCH-R.SAS
*           TO ELIMINATE REDUNDANCY AND INCREASE THE EFFECTIVENESS OF PROGRAMMING.
*         2). ADD ADDITIONAL PREVENTION MEASURE "SMOKING CESSATION"
*           INTO PREVENTIVE CARE TABLE.
* MODIFIED 06/2/2005 BY LUCY LU FOR Q1 2005:
*         1). REMOVE CHOLESTEROL MEASUREMENT AND ADD BMI MEASUREMENT
*         2). COMMENT OUT DISENROLL CODE--NO DISENROLL DATA IN Q1 2005
*         3). ADD SPECIALIST RATING.
* MODIFIED 11/16/2006 BY LUCY LU FOR FY Q4 2006
*         ADD PURCHASE CARE VERSION-- CHANGE PRIME ENROLLEE TO
*         Enrollees with Civilian PCM.
* MODIFIED 6/4/2007 BY LUCY LU. UNIFY THE MACRO PROGRAMS FOR CONSUMER WATCH.
*         !! NEED TO DEFINE MACRO VARIABLE &POP IN SAS PROGRAMS:
*         DIRECT CARE CONSUMER WATCH: &POP=='Prime Enrollees'
*         PURCHASE CARE CONSUMER WATCH: &POP=='Enrollees with Civilian PCM'
* MODIFIED 8/30/2007 BY LUCY LU
*         1). COMBINE CONSUMERWATCH-MACRO.INC and CONSUMERWATCH-MACRO_PURCHASE.INC
*           PRODUCE CHARTS CONTAINING BOTH DIRECT CARE AND PURCHASE CARE DATA
*         2). CREATE DUMMY ID FOR MERGE. SAS 9 doesn't allow merge without by variable
* MODIFIED 9/4/2007 BY LUCY LU. START Q4 2007,
*         DIRECT CARE CONSUMER WATCH &POP='Enrollees with Military PCM'
* MODIFIED 5/14/09 BY LUCY LU
*         1.MACRO INCLUDE PROGRAM IS MODIFIED BY REMOVING VALUE OF
*         'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
*         RELATED CODE.
*         2.THE EXCEL AND WORD TEMPLATES ARE MODIFIED TO REMOVE THE CHARTS
*         FOR 'Courteous and Helpful Office Staff'.
* MODIFIED 7/23/2010 BY LUCY LU
*         1. AUTOMATE PERIOD (QUARTER/YEAR) TO MINIMIZE POSSIBLE ERROR
*         2. ADD MACRO TO MINIMIZE EXCEL WAITING, REDUCE PROGRAM
*           RUNNING TIME
*
* INPUT  : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\&DAT.LOADWEB\TOTAL_Q.SD2
*
* OUTPUT : INTO EXCEL SPREADSHEET
*****;
```

OPTIONS PS=60 LS=120 ERRORS=2 NOCENTER NOFMERR NOXWAIT SPOOL MPRINT;

*LLU 7/23/2010--AUTOMATING PERIOD, MINIMIZE POSSIBLE ERROR;

DATA M1;

*Set the first month of each quarter with order of running quarter 1 in FY;

```

DO MONTH='October', 'July', 'April', 'January';
OUTPUT;
END;
RUN;

DATA _NULL_;
SET M1;

INDEX=_N_;
IF &CURRENTQ =1 THEN DO;
ORDER=INDEX; YR= &CURRENTY -1;
END;
IF &CURRENTQ = 2 THEN DO;
IF INDEX = 4 THEN DO; ORDER=1; YR=&CURRENTY; END; ELSE
IF INDEX < 4 THEN DO; ORDER = INDEX+1; YR=&CURRENTY-1; END;
END;
IF &CURRENTQ = 3 THEN DO;
IF INDEX >=3 THEN DO; ORDER=INDEX-2; YR=&CURRENTY; END; ELSE
IF INDEX < 3 THEN DO; ORDER=INDEX+2; YR=&CURRENTY-1; END;
END;
IF &CURRENTQ = 4 THEN DO;
IF INDEX IN (2,3,4) THEN DO; ORDER=INDEX-1; YR=&CURRENTY; END; ELSE
IF INDEX =1 THEN DO; ORDER=4; YR=&CURRENTY-1; END;
END;

LENGTH PERIOD $15;
PERIOD=TRIM(LEFT(MONTH))||','||'|'|(PUT(YR,4.));
IF ORDER=1 THEN CALL SYMPUT('PERIOD4', TRIM(LEFT(PERIOD)));
IF ORDER=2 THEN CALL SYMPUT('PERIOD3', TRIM(LEFT(PERIOD)));
IF ORDER=3 THEN CALL SYMPUT('PERIOD2', TRIM(LEFT(PERIOD)));
IF ORDER=4 THEN CALL SYMPUT('PERIOD1', TRIM(LEFT(PERIOD)));

RUN;

%PUT PERIOD4 = &PERIOD4(current quarter);
%PUT PERIOD3 = &PERIOD3;
%PUT PERIOD2 = &PERIOD2;
%PUT PERIOD1 = &PERIOD1;

%MACRO RUNCW (AREA=&FOLDER, /* Region/Service/conus */
FOLDER=, /* Folder containing excel template */
CURRENT=CURNTR.TOTAL_Q /* Libname and dataset for the current quarter */
);

*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME;
FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;

LENGTH FID RC START STOP TIME 8;
FID = FOPEN('CMDS' , 'S');
IF (FID LE 0) THEN DO;
RC = SYSTEM('START EXCEL');
START = DATETIME();
STOP = START + 10;
DO WHILE (FID LE 0);
FID = FOPEN('CMDS' , 'S');
TIME = DATETIME();
IF (TIME GE STOP) THEN FID = 1;
END;
END;
RC = FCLOSE(FID);
RUN;

%MACRO SETUP;

DATA _NULL_;
SINGLE=" ";
DOUBLE=" ";

LENGTH OPENXLS SAVEXLS $120;
OPENXLS=SINGLE||"[OPEN("||DOUBLE||"&PATH.\Template_PurchasedCare.xlsb"||DOUBLE||")]"||SINGLE;

```

```

SAVEXLS=SINGLE || "[SAVE.AS(" || DOUBLE || "&PATH.\&FOLDER.\&FOLDER._PurchasedCare.XLSB" || DOUBLE || ")]"
|| SINGLE;

CALL SYMPUT ("OPENXLS",TRIM(OPENXLS));
CALL SYMPUT ("SAVEXLS",TRIM(SAVEXLS));

RUN;

%MEND SETUP;
%SETUP;

DATA _NULL_;

FILE CMDS;
PUT &OPENXLS;
X=SLEEP(2);
PUT '[ERROR(FALSE)]';
PUT &SAVEXLS;
PUT '[app.minimize()]';
RUN;

%MACRO RUNPOP(MAJPOP=, POP=,DAT=);

TITLE2 "&AREA.";

LIBNAME CURNTR "..\&DAT.Loadweb";
*LIBNAME CURNTR "L:\Q3FY2010\Programs\&DAT.Loadweb"; *--TEMP;

/* This macro pulls data from the specified dataset to be used in the Consumer Watch */
%MACRO GETDATA (MAJGRP=, /* Prime enrollee or civilian PCM */
REGION=, /* Value of variable REGION */
REGCAT=, /* Value of variable REGCAT */
BENEFIT=, /* Value of variable BENEFIT */
TIMEPD=, /* Value of variable TIMEPD */
OUTDATA=, /* Name of output data set */
FIGURE= /* Figure number in consumer watch reports */
);

PROC FREQ NOPRINT DATA=&CURRENT;
WHERE MAJGRP = &MAJPOP
AND REGION IN &REGION
AND REGCAT IN &REGCAT
AND BENEFIT IN &BENEFIT
AND BENTYPE = 'Composite'
AND TIMEPD = &TIMEPD;
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SCORE*N_OBS*N_WGT*SIG/OUT=&OUTDATA (DROP=COUNT
PERCENT);
RUN;

%MEND GETDATA;

%MACRO NEWSCORE (FIGURE=);
/* This macro re-calculates SCORE based on the quarterly benchmark */
%DO QUARTER=1 %TO 4;

DATA FIG&FIGURE&QUARTER FIG&FIGURE.B&QUARTER(KEEP=SCORE N);
SET FIG&FIGURE.P&QUARTER;
N=1; * DUMMY ID FOR NEXT MERGE STEP;
IF REGION='Benchmark' THEN OUTPUT FIG&FIGURE.B&QUARTER;
ELSE OUTPUT FIG&FIGURE&QUARTER;

RUN;

/*ADD CODE HERE TO PRESERVE ABOVE DATASET FOR LATER COMPARISON. LLU 10/7/04*/

DATA CFIG&FIGURE&QUARTER;
SET FIG&FIGURE&QUARTER;

KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
RUN;

```

```

DATA FIG&FIGURE.P&QUARTER(DROP=RSCORE);
  MERGE FIG&FIGURE.B&QUARTER(RENAME=(SCORE=RSCORE))
    FIG&FIGURE&QUARTER;
BY N;
*   SCORE=SCORE-RSCORE;
RUN;
%END;
%MEND NEWSCORE;

%MACRO COMBDATA(FIGURE=);

DATA &POP.FIG&FIGURE(DROP=BSCORE);
  SET BENCH FIG&FIGURE.P1 FIG&FIGURE.P4 FIG&FIGURE.P3 FIG&FIGURE.P2;
  RETAIN BSCORE;
  IF REGION = 'Benchmark' THEN DO;
    ROW = 3;
    BSCORE=SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD1" THEN DO;
    ROW = 4;
    *   SCORE=SCORE+BSCORE;
    IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD2" THEN DO;
    ROW = 5;
    *   SCORE=SCORE+BSCORE;
    IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD3" THEN DO;
    ROW = 6;
    *   SCORE=SCORE+BSCORE;
    IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD4" THEN DO;
    ROW=7;
    *   SCORE=SCORE+BSCORE;
  END;
  &POP.SCORE = SCORE;;   *3/4/08 LLu, increase the score by 100 to align with fig. 5-10;
  &POP.SIG = SIG;
RUN;
PROC SORT;
  BY ROW;
RUN;

%MEND COMBDATA;

*****
* FIGURE 1: Health Care Rating
*****;
TITLE2 'Figure 1: Health Care Rating';

%GETDATA (MAJGRP=&MAJPOP,
  REGION=('Benchmark'),
  REGCAT=('Benchmark'),
  BENEFIT=('Health Care'),
  TIMEPD="&PERIOD4",
  OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
  REGION=("&AREA", 'Benchmark'),
  REGCAT=("&AREA", 'Benchmark'),
  BENEFIT=('Health Care'),
  TIMEPD="&PERIOD4",
  OUTDATA=FIG1P4);
%GETDATA (MAJGRP=&MAJPOP,
  REGION=("&AREA", 'Benchmark'),
  REGCAT=("&AREA", 'Benchmark'),
  BENEFIT=('Health Care'),
  TIMEPD="&PERIOD3",
  OUTDATA=FIG1P3);
%GETDATA (MAJGRP=&MAJPOP,
  REGION=("&AREA", 'Benchmark'),
  REGCAT=("&AREA", 'Benchmark'),

```

```

        BENEFIT=('Health Care'),
        TIMEPD="&PERIOD2",
        OUTDATA=FIG1P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Care'),
        TIMEPD="&PERIOD1",
        OUTDATA=FIG1P1);
%NEWSCORE(FIGURE=1);
%COMBDATA(FIGURE=1);

```

```

*****
* FIGURE 2: Health Plan Rating
*****;
TITLE2 'Figure 2: Health Plan Rating';

```

```

%GETDATA (MAJGRP=&MAJPOP,
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Health Plan'),
        TIMEPD="&PERIOD4",
        OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        TIMEPD="&PERIOD4",
        OUTDATA=FIG2P4);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        TIMEPD="&PERIOD3",
        OUTDATA=FIG2P3);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        TIMEPD="&PERIOD2",
        OUTDATA=FIG2P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        TIMEPD="&PERIOD1",
        OUTDATA=FIG2P1);
%NEWSCORE(FIGURE=2);
%COMBDATA(FIGURE=2);

```

```

*****
* FIGURE 3: Personal Provider Rating
*****;
TITLE2 'Figure 3: Personal Provider Rating';

```

```

%GETDATA (MAJGRP=&MAJPOP,
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Personal Doctor'),
        TIMEPD="&PERIOD4",
        OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        TIMEPD="&PERIOD4",
        OUTDATA=FIG3P4);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),

```

```

        TIMEPD="&PERIOD3",
        OUTDATA=FIG3P3);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        TIMEPD="&PERIOD2",
        OUTDATA=FIG3P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        TIMEPD="&PERIOD1",
        OUTDATA=FIG3P1);
%NEWSCORE(FIGURE=3);
%COMBDATA(FIGURE=3);

```

```

*****
* FIGURE 4: Specialist Rating--added for Q1 2005, LLu 6/2/05
*****;
TITLE2 'Figure 4: Specialist Rating';

```

```

%GETDATA (MAJGRP=&MAJPOP,
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD4",
        OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD4",
        OUTDATA=FIG4P4);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD3",
        OUTDATA=FIG4P3);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD2",
        OUTDATA=FIG4P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD1",
        OUTDATA=FIG4P1);
%NEWSCORE(FIGURE=4);
%COMBDATA(FIGURE=4);

```

```

*****
* FIGURE 5 & 6: Access Composites
*****;
TITLE2 'Figure 5 & 6: Access Composites';

```

```

%GETDATA (MAJGRP=&MAJPOP,
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
        TIMEPD="&PERIOD4",
        OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
        TIMEPD="&PERIOD4",

```

```

        OUTDATA=FIG5P4);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Getting Needed Care','Getting Care Quickly'),
        TIMEPD="&PERIOD3",
        OUTDATA=FIG5P3);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Getting Needed Care','Getting Care Quickly'),
        TIMEPD="&PERIOD2",
        OUTDATA=FIG5P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Getting Needed Care','Getting Care Quickly'),
        TIMEPD="&PERIOD1",
        OUTDATA=FIG5P1);

/*Use macro for figures 5-10 */

%MACRO COMPSCORE (FIGNUM=
        );

%DO QUARTER = 1 %TO 4;

DATA FIG&FIGNUM.P&QUARTER FIGB&QUARTER(KEEP=SCORE BENEFIT SIG);
    SET FIG&FIGNUM.P&QUARTER;
    IF REGION = 'Benchmark' THEN OUTPUT FIGB&QUARTER;
    ELSE OUTPUT FIG&FIGNUM.P&QUARTER;
RUN;
PROC SORT DATA=FIG&FIGNUM.P&QUARTER;
    BY BENEFIT;
RUN;
PROC SORT DATA=FIGB&QUARTER;
    BY BENEFIT;
RUN;

/*ADD CODE HERE TO PRESERVE THE SCORES IN CONUS_Q DATASET FOR LATER COMPARISON. LLU 10/7/04*/

DATA CFIG&FIGNUM.&QUARTER;
    SET FIG&FIGNUM.P&QUARTER;

KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
RUN;

DATA FIG&FIGNUM.&QUARTER(DROP=RSCORE);
    MERGE FIGB&QUARTER(RENAME=(SCORE=RSCORE))
        FIG&FIGNUM.P&QUARTER;
    BY BENEFIT;
    * SCORE=SCORE-RSCORE;
RUN;
%END;

%MEND COMPSCORE;

%COMPSCORE (FIGNUM=5);

DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
    COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
    COL4(DROP=SCORE RENAME=(SCORE1=COL4)) /*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER
COMPARISON*/
    COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
    COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
    COL7(KEEP=ROW SIG RENAME=(SIG=COL7))
    ;
SET BENCH FIG54 FIG53 FIG52 FIG51;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
    BSCORE=SCORE;

```



```

        ROW = 18;
        SCORE1 = SCORE;
    END;
    ELSE IF TIMEPD = "&PERIOD1" THEN DO;
        ROW = 18;
    *   SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
            ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = "&PERIOD2" THEN DO;
        ROW = 19;
    *   SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
            ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = "&PERIOD3" THEN DO;
        ROW = 20;
    *   SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
            ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = "&PERIOD4" THEN DO;
        ROW = 21;
    *   SCORE=BSCORE+SCORE;
        SCORE1 = SCORE;
    END;

    IF (BENEFIT = 'Getting Needed Care' AND REGION NE 'Benchmark') THEN OUTPUT COL2 COL6;
    IF (BENEFIT = 'Getting Needed Care' AND REGION = 'Benchmark') THEN OUTPUT COL3;
    IF (BENEFIT = 'Getting Care Quickly' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
    IF (BENEFIT = 'Getting Care Quickly' AND REGION = 'Benchmark') THEN OUTPUT COL5;

RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 10/7/04*/

DATA FIG5A;
    MERGE COL2 COL6;
    BY ROW;
RUN;

DATA FIG5B;
    MERGE COL4 COL7;
    BY ROW;
RUN;

DATA FIG5AB;
    SET FIG5A FIG5B;
    BY ROW;
RUN;

DATA &POP.FIG5;
    MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
    BY ROW;
RUN;
/*
DATA &POP.FIG6;
    MERGE COL4(KEEP=ROW COL4) COL5 COL7;
    BY ROW;
RUN;
*/

```

```
*****
```

```

* FIGURE 7: Doctors Communicate
*****;
TITLE2 'Figure 7 : Doctors Communicate';

%GETDATA (MAJGRP=&MAJPOP,
          REGION=('Benchmark'),
          REGCAT=('Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          TIMEPD="&PERIOD4",
          OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          TIMEPD="&PERIOD4",
          OUTDATA=FIG7P4);
%GETDATA (MAJGRP=&MAJPOP,
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          TIMEPD="&PERIOD3",
          OUTDATA=FIG7P3);
%GETDATA (MAJGRP=&MAJPOP,
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          TIMEPD="&PERIOD2",
          OUTDATA=FIG7P2);
%GETDATA (MAJGRP=&MAJPOP,
          REGION("&AREA", 'Benchmark'),
          REGCAT("&AREA", 'Benchmark'),
          BENEFIT=('How Well Doctors Communicate'),
          TIMEPD="&PERIOD1",
          OUTDATA=FIG7P1);

%COMPSCORE (FIGNUM=7);

DATA COL4(DROP=SCORE RENAME=(SCORE1=COL4)) /*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER
COMPARISON*/
      COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
      COL7(KEEP=ROW SIG RENAME=(SIG=COL7))
      ;
SET BENCH FIG74 FIG73 FIG72 FIG71;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
  BSCORE=SCORE;
  ROW = 18;
  SCORE1 = SCORE;
END;
ELSE IF TIMEPD = "&PERIOD1" THEN DO;
  ROW = 18;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD2" THEN DO;
  ROW = 19;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD3" THEN DO;
  ROW = 20;
  * SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = "&PERIOD4" THEN DO;
  ROW = 21;
  * SCORE=BSCORE+SCORE;
  SCORE1 = SCORE;
END;

```

```

IF (BENEFIT = 'How Well Doctors Communicate' AND REGION NE 'Benchmark') THEN OUTPUT COL4
COL7;
IF (BENEFIT = 'How Well Doctors Communicate' AND REGION = 'Benchmark') THEN OUTPUT COL5;

RUN;

```

```

PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

```

```

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 6. LLU 10/7/04*/

```

```

DATA FIG7AB;
MERGE COL4 COL7;
BY ROW;
RUN;

```

```

DATA &POP.FIG7;
MERGE COL4(KEEP=ROW COL4) COL5 COL7;
BY ROW;
RUN;

```

```

*****
* FIGURE 8 & 9: Claims/Service Composites
*****;

```

```

TITLE2 'Figure 8 & 9: Claims/Service Composites';

```

```

%GETDATA (MAJGRP=&MAJPOP,
REGION=('Benchmark'),
REGCAT=('Benchmark'),
BENEFIT=('Customer Service','Claims Processing'),
TIMEPD="&PERIOD4",
OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
REGION("&AREA",'Benchmark'),
REGCAT("&AREA",'Benchmark'),
BENEFIT=('Customer Service','Claims Processing'),
TIMEPD="&PERIOD4",
OUTDATA=FIG9P4);
%GETDATA (MAJGRP=&MAJPOP,
REGION("&AREA",'Benchmark'),
REGCAT("&AREA",'Benchmark'),
BENEFIT=('Customer Service','Claims Processing'),
TIMEPD="&PERIOD3",
OUTDATA=FIG9P3);
%GETDATA (MAJGRP=&MAJPOP,
REGION("&AREA",'Benchmark'),
REGCAT("&AREA",'Benchmark'),
BENEFIT=('Customer Service','Claims Processing'),
TIMEPD="&PERIOD2",
OUTDATA=FIG9P2);
%GETDATA (MAJGRP=&MAJPOP,
REGION("&AREA",'Benchmark'),
REGCAT("&AREA",'Benchmark'),
BENEFIT=('Customer Service','Claims Processing'),
TIMEPD="&PERIOD1",
OUTDATA=FIG9P1);

```

```

%COMPSCORE (FIGNUM=9);

```

```

DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
COL4(DROP=SCORE RENAME=(SCORE1=COL4)) /*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER
COMPARISON*/
COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
COL7(KEEP=ROW SIG RENAME=(SIG=COL7));
SET BENCH FIG94 FIG93 FIG92 FIG91;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
BSCORE=SCORE;

```

```

        ROW = 18;
        SCORE1 = SCORE;
    END;
    ELSE IF TIMEPD = "&PERIOD1" THEN DO;
        ROW = 18;
    *   SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
            ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = "&PERIOD2" THEN DO;
        ROW = 19;
    *   SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
            ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = "&PERIOD3" THEN DO;
        ROW = 20;
    *   SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
            ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = "&PERIOD4" THEN DO;
        ROW = 21;
    *   SCORE=BSCORE+SCORE;
        SCORE1 = SCORE;
    END;

    IF (BENEFIT = 'Customer Service' AND REGION NE 'Benchmark') THEN OUTPUT COL2 COL6;
    IF (BENEFIT = 'Customer Service' AND REGION = 'Benchmark') THEN OUTPUT COL3;
    IF (BENEFIT = 'Claims Processing' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
    IF (BENEFIT = 'Claims Processing' AND REGION = 'Benchmark') THEN OUTPUT COL5;

RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;

/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 7. LLU 10/7/04*/

DATA FIG9A;
    MERGE COL2 COL6;
    BY ROW;
RUN;

DATA FIG9B;
    MERGE COL4 COL7;
    BY ROW;
RUN;

DATA FIG9AB;
    SET FIG9A FIG9B;
    BY ROW;
RUN;

DATA &POP.FIG9;
    MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
    BY ROW;
RUN;

*****
* TABLE 1: Preventive Care
*****;
PROC FREQ NOPRINT DATA=&CURRENT;
    WHERE MAJGRP IN (&MAJPOP, 'Benchmark')
        AND REGION = "&AREA"
        AND REGCAT = "&AREA"

```

```

AND BENEFIT IN ('Preventive Care','Healthy Behaviors')
AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit')
AND TIMEPD = "&PERIOD4";
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_P4(DROP=COUNT
PERCENT);
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*N_OBS/ OUT=TAB2_P4(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
WHERE MAJGRP = &MAJPOP
AND REGION = "&AREA"
AND REGCAT = "&AREA"
AND BENEFIT IN ('Preventive Care','Healthy Behaviors')
AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit')
AND TIMEPD = "&PERIOD3";
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_P3(DROP=COUNT
PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
WHERE MAJGRP = &MAJPOP
AND REGION = "&AREA"
AND REGCAT = "&AREA"
AND BENEFIT IN ('Preventive Care','Healthy Behaviors')
AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit')
AND TIMEPD = "&PERIOD2";
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_P2(DROP=COUNT
PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
WHERE MAJGRP = &MAJPOP
AND REGION = "&AREA"
AND REGCAT = "&AREA"
AND BENEFIT IN ('Preventive Care','Healthy Behaviors')
AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit')
AND TIMEPD = "&PERIOD1";
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_P1(DROP=COUNT
PERCENT);
RUN;
DATA TAB1P4;
SET TAB1_P4;
IF MAJGRP = 'Benchmark' THEN DO;
ROW=42;
IF BENTYPE='Mammography' THEN COL2=SCORE;
ELSE IF BENTYPE='Pap Smear' THEN COL3=SCORE;
ELSE IF BENTYPE='Hypertension' THEN COL4=SCORE;
ELSE IF BENTYPE='Prenatal Care' THEN COL5=SCORE;
ELSE IF BENTYPE='Percent Not Obese' THEN COL6=SCORE;
ELSE IF BENTYPE = 'Non-Smoking Rate' THEN COL7=SCORE;
ELSE IF BENTYPE = 'Counselled To Quit' THEN COL8=SCORE;
END;
ELSE DO;
ROW = 40;
IF BENTYPE='Mammography' THEN DO;
COL2=SCORE;
COL9=SIG;
END;
ELSE IF BENTYPE='Pap Smear' THEN DO;
COL3=SCORE;
COL10=SIG;
END;
ELSE IF BENTYPE='Hypertension' THEN DO;
COL4=SCORE;
COL11=SIG;
END;
ELSE IF BENTYPE='Prenatal Care' THEN DO;
COL5=SCORE;
COL12=SIG;
END;
ELSE IF BENTYPE='Percent Not Obese' THEN DO;
COL6=SCORE;
COL13=SIG;

```

```

END;
ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
    COL7=SCORE;
    COL14=SIG;
END;
ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
    COL8=SCORE;
    COL15=SIG;
END;
END;
PROC SORT;
BY ROW;
RUN;
DATA TAB2P4;
SET TAB2_P4;
ROW=41;
IF MAJGRP=&MAJPOP;
IF BENTYPE='Mammography' THEN COL2=N_OBS;
ELSE IF BENTYPE='Pap Smear' THEN COL3=N_OBS;
ELSE IF BENTYPE='Hypertension' THEN COL4=N_OBS;
ELSE IF BENTYPE='Prenatal Care' THEN COL5=N_OBS;
ELSE IF BENTYPE='Percent Not Obese' THEN COL6=N_OBS;
ELSE IF BENTYPE='Non-Smoking Rate' THEN COL7=N_OBS;
ELSE IF BENTYPE='Counselled To Quit' THEN COL8=N_OBS;
PROC SORT;
BY ROW;
RUN;
DATA TAB1P3;
SET TAB1_P3;
ROW=39;
IF BENTYPE='Mammography' THEN DO;
    COL2=SCORE;
    COL9=SIG;
END;
ELSE IF BENTYPE='Pap Smear' THEN DO;
    COL3=SCORE;
    COL10=SIG;
END;
ELSE IF BENTYPE='Hypertension' THEN DO;
    COL4=SCORE;
    COL11=SIG;
END;
ELSE IF BENTYPE='Prenatal Care' THEN DO;
    COL5=SCORE;
    COL12=SIG;
END;
ELSE IF BENTYPE='Percent Not Obese' THEN DO;
    COL6=SCORE;
    COL13=SIG;
END;
ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
    COL7=SCORE;
    COL14=SIG;
END;
ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
    COL8=SCORE;
    COL15=SIG;
END;
PROC SORT;
BY ROW;
RUN;
DATA TAB1P2;
SET TAB1_P2;
ROW=38;
IF BENTYPE='Mammography' THEN DO;
    COL2=SCORE;
    COL9=SIG;
END;
ELSE IF BENTYPE='Pap Smear' THEN DO;
    COL3=SCORE;
    COL10=SIG;
END;
ELSE IF BENTYPE='Hypertension' THEN DO;
    COL4=SCORE;

```

```

        COL11=SIG;
    END;
    ELSE IF BENTYPE='Prenatal Care' THEN DO;
        COL5=SCORE;
        COL12=SIG;
    END;
    ELSE IF BENTYPE='Percent Not Obese' THEN DO;
        COL6=SCORE;
        COL13=SIG;
    END;
    ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
        COL7=SCORE;
        COL14=SIG;
    END;
    ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
        COL8=SCORE;
        COL15=SIG;
    END;
PROC SORT;
BY ROW;

RUN;
DATA TAB1P1;
SET TAB1_P1;
ROW=37;
    IF BENTYPE='Mammography' THEN DO;
        COL2=SCORE;
        COL9=SIG;
    END;
    ELSE IF BENTYPE='Pap Smear' THEN DO;
        COL3=SCORE;
        COL10=SIG;
    END;
    ELSE IF BENTYPE='Hypertension' THEN DO;
        COL4=SCORE;
        COL11=SIG;
    END;
    ELSE IF BENTYPE='Prenatal Care' THEN DO;
        COL5=SCORE;
        COL12=SIG;
    END;
    ELSE IF BENTYPE='Percent Not Obese' THEN DO;
        COL6=SCORE;
        COL13=SIG;
    END;
    ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
        COL7=SCORE;
        COL14=SIG;
    END;
    ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
        COL8=SCORE;
        COL15=SIG;
    END;
PROC SORT;
BY ROW;
RUN;

DATA TAB1;
MERGE TAB1P1 TAB1P2 TAB1P3 TAB1P4 TAB2P4;
BY ROW;
RUN;
DATA COL2(DROP=COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
COL3(DROP=COL2 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
COL4(DROP=COL2 COL3 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
COL5(DROP=COL2 COL3 COL4 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
COL6(DROP=COL2 COL3 COL4 COL5 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
COL7(DROP=COL2 COL3 COL4 COL5 COL6 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
COL8(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
COL9(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL10 COL11 COL12 COL13 COL14 COL15)
COL10(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL11 COL12 COL13 COL14 COL15)
COL11(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL12 COL13 COL14 COL15)
COL12(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL13 COL14 COL15)
COL13(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL14 COL15)
COL14(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL15)

```

```

COL15(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14);

SET TAB1;

IF COL2 NE . THEN OUTPUT COL2;
IF COL3 NE . THEN OUTPUT COL3;
IF COL4 NE . THEN OUTPUT COL4;
IF COL5 NE . THEN OUTPUT COL5;
IF COL6 NE . THEN OUTPUT COL6;
IF COL7 NE . THEN OUTPUT COL7;
IF COL8 NE . THEN OUTPUT COL8;
IF COL9 NE . THEN OUTPUT COL9;
IF COL10 NE . THEN OUTPUT COL10;
IF COL11 NE . THEN OUTPUT COL11;
IF COL12 NE . THEN OUTPUT COL12;
IF COL13 NE . THEN OUTPUT COL13;
IF COL14 NE . THEN OUTPUT COL14;
IF COL15 NE . THEN OUTPUT COL15;
RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
PROC SORT DATA=COL8; BY ROW; RUN;
PROC SORT DATA=COL9; BY ROW; RUN;
PROC SORT DATA=COL10; BY ROW; RUN;
PROC SORT DATA=COL11; BY ROW; RUN;
PROC SORT DATA=COL12; BY ROW; RUN;
PROC SORT DATA=COL13; BY ROW; RUN;
PROC SORT DATA=COL14; BY ROW; RUN;
PROC SORT DATA=COL15; BY ROW; RUN;

DATA &POP.TABLE1;
MERGE COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15;
BY ROW;
RUN;

*****
COMPARE SCORES AND SIG B/T CONSUMER WATCH AND REPORT CARDS.
SET 0.015 DIFFERENCE AS THRESHOLD.
LUCY LU 10/07/2004
*****;

PROC SORT DATA=&POP.FIG1(DROP=SCORE); *FROM CONSUMER WATCH. LLU 10/8/04;
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=&POP.FIG2(DROP=SCORE);
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=&POP.FIG3(DROP=SCORE);
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=FIG5AB OUT=&POP.FIG5;
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=FIG7AB OUT=&POP.FIG7;
BY BENEFIT TIMEPD REGION;

PROC SORT DATA=FIG9AB OUT=&POP.FIG9;
BY BENEFIT TIMEPD REGION;
RUN;

%MACRO COMPARE(I=, TITL=);
TITLE "DATA=&MAJPOP";

```



```

DATA CFIG&I;                                *FROM CONUS. LLU 10/8/04;

    SET CFIG&I.1
        CFIG&I.2
        CFIG&I.3
        CFIG&I.4
    ;
RUN;

PROC SORT DATA=&POP.FIG&I;
BY BENEFIT TIMEPD REGION;
RUN;

PROC SORT DATA=CFIG&I;
BY BENEFIT TIMEPD REGION;
RUN;

DATA COMBFIG&I;
    MERGE CFIG&I(IN=F1) &POP.FIG&I(IN=F2);
BY BENEFIT TIMEPD REGION;

IF F1 AND F2;

FIG = &I;

IF FIG <=4 THEN DO;
    SCORE2=&POP.SCORE;
    SIG2=&POP.SIG;
END;

ELSE IF FIG >4 THEN DO;
    IF COL2 >= 0 THEN SCORE2=COL2;
    ELSE IF COL4 >0 THEN SCORE2=COL4;

    IF COL6 >= .Z THEN SIG2=COL6;
    ELSE IF COL7>=.Z THEN SIG2=COL7;
END;

SCOREDIF=SCORE2-SCORE;
SIGDIF=SIG2-SIG;

IF ABS(SCOREDIF)>.015 OR SIGDIF>0 THEN FLAG=1;
ELSE FLAG=0;

KEEP BENEFIT TIMEPD REGION SCORE SIG SCORE2 SIG2 SCOREDIF SIGDIF FLAG;

LABEL
FLAG="DIFF IN SCORES >0.015 OR/AND DIFF IN SIG >0"
SCORE="SCORES FROM CONUS"
SCORE2="SCORES FROM CONSUMER WATCH"
SIG="SIG FROM CONUS"
SIG2="SIG FROM CONSUMER WATCH"
;

TITLE2 "*****";
TITLE3 "CONSUMER WATCH, &AREA, DATA=&MAJPOP ";

PROC PRINT L NOOBS;
TITLE4 "Compare &TITL.";
RUN;

%MEND COMPARE;

%COMPARE(I=1, TITL=Health Care Rating);
%COMPARE(I=2, TITL=Health Plan Rating);
%COMPARE(I=3, TITL=Personal Provider Rating);
%COMPARE(I=4, TITL=Specialist Rating);

%COMPARE(I=5, TITL=Access composites);

```

```

%COMPARE(I=7, TITL=Office composites);
%COMPARE(I=9, TITL=Claims/Service composites);

*prepare to merge data;

DATA &POP.FIG5(RENAME=(COL2=&POP.SCORE COL6=&POP.SIG))
    &POP.FIG6(RENAME=(COL4=&POP.SCORE COL7=&POP.SIG));
SET &POP.FIG5;
IF BENEFIT='Getting Needed Care' THEN OUTPUT &POP.FIG5;
ELSE IF BENEFIT = 'Getting Care Quickly' THEN OUTPUT &POP.FIG6;
RUN;

DATA &POP.FIG7(RENAME=(COL4=&POP.SCORE COL7=&POP.SIG));
SET &POP.FIG7;
IF BENEFIT = 'How Well Doctors Communicate' THEN OUTPUT;
RUN;

DATA &POP.FIG8(RENAME=(COL2=&POP.SCORE COL6=&POP.SIG))
    &POP.FIG9(RENAME=(COL4=&POP.SCORE COL7=&POP.SIG));
SET &POP.FIG9;
IF BENEFIT='Customer Service' THEN OUTPUT &POP.FIG8;
ELSE IF BENEFIT = 'Claims Processing' THEN OUTPUT &POP.FIG9;
RUN;

%DO I= 1 %TO 9;
PROC SORT DATA=&POP.FIG&I;
BY ROW;
RUN;
%END;

%MEND RUNPOP;

%RUNPOP(MAJPOP='Enrollees with Military PCM', POP=DC,DAT=);
%RUNPOP(MAJPOP='Enrollees with Civilian PCM', POP=PC,DAT=PURCHASED);

%DO I=1 %TO 9;
DATA FIG&I;
MERGE DCFIG&I PCFIG&I;
BY ROW;
RUN;
%END;

DATA DCTABLE1;
SET DCTABLE1;

ROW=ROW-.5; *CHANGE DIRECT CARES ROW NUMBER TO PREPARE NEXT STEP;
RUN;

DATA TABLE1;
SET DCTABLE1 PCTABLE1;
BY ROW;
RUN;

*****
* DDE LINK: FIGURE 1-4: Health Care Rating
*****;

%MACRO RUNXLS1;

%DO I = 1 %TO 4;
FILENAME TBL DDE "EXCEL|RATINGS!R17C%EVAL(&I*6-4):R21C%EVAL(&I*6)";

DATA _NULL_;
SET FIG&I;
FILE TBL NOTAB LRECL=200;
X=SLEEP(.1);
PUT DCSCORE '09'X PCSCORE '09'X DCSIG '09'X PCSIG;
RUN;
%END;

```

```

%MEND;
%RUNXLS1;

*****
* DDE LINK: FIGURE 5-9: Composites
*****;

%MACRO RUNXLS2;
%DO I = 5 %TO 9;
FILENAME TBL DDE "EXCEL|Composites!R18C%EVAL((&I.-4)*5-3):R21C%EVAL((&I.-4)*5-1)";

DATA _NULL_;
  SET FIG&I;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT DCSCORE '09'X PCSCORE '09'X BSCORE;
RUN;

FILENAME TBL DDE "EXCEL|Composites!R23C%EVAL((&I.-4)*5-3):R26C%EVAL((&I.-4)*5-1)";

DATA _NULL_;
  SET FIG&I;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT DCSIG '09'X PCSIG;
RUN;

%END;
%MEND;
%RUNXLS2;

*****
* DDE LINK: TABLE 1: Preventive Care
*****;
FILENAME TBL DDE "EXCEL|TABLES!R3C11:R14C25";

DATA _NULL_;
  SET TABLE1;
  FILE TBL NOTAB LRECL=200;
  IF ROW <=41 THEN DO;
    PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X COL8 '09'X COL9 '09'X
COL10
    '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END;
  ELSE IF ROW=42 THEN DO; *no benchmark for counselling;
    PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X '-' '09'X COL9 '09'X
COL10
    '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END;
RUN;

/*Run Excel macro signif, May 9 2006, LLU*/

options noxsync;
*-- Specify XL filename ;

%let excelf = &FOLDER..XLS ;

*-- Specify XL macro name ;
%let macron = sig2.signif2 ;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
  FILE CMDS;
  DDECommand = '[Run("' || "&macron" || '",0)]' ;
  put DDECommand ;

RUN;

DATA _NULL_;

```

```
FILE CMDS;  
PUT '[CLOSE(TRUE)]';  
RUN;  
/*  
DATA _NULL_;  
FILE CMDS;  
PUT '[SAVE]';  
PUT '[QUIT]';  
RUN; */  
  
%MEND RUNCW;
```

J.2.A Q4FY2010\PROGRAMS\PURCHASEDCONSUMERWATCH\CONSUMERWATCH_PURCHASEDCARE_WORD.SAS - RUN PROGRAM THAT
GENERATES MS WORD PURCHASED CARE TRICARE CONSUMER WATCH REPORTS - RUN QUARTERLY.

```
*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH_PurchasedCare_Word.SAS
*
* PURPOSE: CALL CONSUMERWATCH_PurchasedCare_MACRO.INC PROGRAM
*          TO PRODUCE WORD DOCUMENT FOR Purchased Care Consumer Watch report.
*
* WRITTEN: 2/21/2008 LUCY LU
*
* INPUT  : EXCEL CHARTS
*
* OUTPUT : WORD DOCUMENTS
*
* PROGRAM TO CALL: CONSUMERWATCH_PurchasedCare_MACRO_WORD.INC
* MODIFIED : 4/14/2010 BY LUCY LU, SEE COMMENT ON INCLUDE FILE.
* MODIFIED : 7/23/2010 BY LUCY LU
*          Rename CONSUMERWATCH_MACRO_COMB_WORD.INC to
*          CONSUMERWATCH_purchasedcare_MACR_WORD.INC
*          CONSOLIDATE USMHS AND REGION INTO ONE SAS PROGRAM
*
*****;
OPTIONS MPRINT;

%LET QUARTER=4;          *CURRENT FISCAL QUARTER;
%LET YEAR=2010;        *CURRENT FISCAL YEAR;

%LET PATH=L:\Q&QUARTER.FY&YEAR.\Programs\PurchasedConsumerWatch;
%LET PATH=L:\Q4FY2010\Programs\PurchasedConsumerWatch; *TEMP;

%INCLUDE "consumerwatch_PURCHASEDCARE_macro_word.inc";

*%RUNWD(FOLDER=USMHS,NAME=US MHS,YOURSAY=US MHS);
*%RUNWD(FOLDER=North,YOURSAY=your region);
*%RUNWD(FOLDER=South,YOURSAY=your region);
*%RUNWD(FOLDER=West,YOURSAY=your region);
```

J.2.B Q4FY2010\PROGRAMS\PURCHASEDCONSUMERWATCH\CONSUMERWATCH_PURCHASEDCARE_MACRO_WORD.INC - GENERATE MS
WORD QUARTERLY PURCHASED CARE TRICARE CONSUMER WATCH REPORTS.

```
*****
* PROJECT: 6077-420
* PROGRAM: consumerwatch_PurchasedCare_macro_word.inc
*
* AUTHOR : LUCY LU
* PURPOSE: Automate the copy and paste process, update the year, region,
*          response rate and sample size for quarterly Consumer
*          Watch report.
*
* DATE   : 03/12/2009
*
* OUTPUT : WORD DOCUMENTS
* MODIFIED: 06/4/2010 BY LUCY LU
*          NOTE: 1. Replicating the template of Q2 2010 report found the lower quality
*                of charts in Word report. Using copy and paste instead of link.
*                2. Excel Triplet doesn't work for MS 2007/SAS 9. Using direct VBA
*                code in SAS.
*                3. The final products are in Word and pdf format.
* MODIFIED: 7/23/2010 BY LUCY LU
*          ADD MACRO TO MINIMIZE EXCEL AND WORD WAITING, REDUCE PROGRAM
*          RUNNING TIME
*****;
```

OPTIONS NOXWAIT SPOOL NOXSYNC;

%MACRO RUNWD(FOLDER=,NAME=&FOLDER,YOURSAY=);

*7/23/2010 LLU, Wait until Excel ready;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;

```
LENGTH FID RC START STOP TIME 8;
FID = FOPEN('CMDS' , 'S');
IF (FID LE 0) THEN DO;
  RC = SYSTEM('START EXCEL');
  START = DATETIME();
  STOP = START + 10;
  DO WHILE (FID LE 0);
    FID = FOPEN('CMDS' , 'S');
    TIME = DATETIME();
    IF (TIME GE STOP) THEN FID = 1;
  END;
END;
RC = FCLOSE(FID);
RUN;
```

%MACRO SETUP;
DATA TEST _NULL_;

SINGLE=" ";
DOUBLE=" ";

LENGTH OPENXLS OPENWRD SAVEWRD \$120;

OPENXLS=SINGLE || "[OPEN(" || DOUBLE || "&PATH.\&FOLDER.\&FOLDER._PurchasedCare.xlsb" || DOUBLE || ")]" || SINGLE;

OPENWRD=SINGLE || "[FileOpen.Name=" || DOUBLE || "&PATH.\template_PurchasedCare.docm" || DOUBLE || "]" || SINGLE;

SAVEWRD=SINGLE || "[FileSaveAs.Name=" || DOUBLE || "&PATH.\&FOLDER.\&FOLDER._PurchasedCare.DOCM" || DOUBLE || "]" || SINGLE;

```
CALL SYMPUT ("OPENXLS",TRIM(OPENXLS));
CALL SYMPUT ("OPENWRD",TRIM(OPENWRD));
CALL SYMPUT ("SAVEWRD",TRIM(SAVEWRD));
```

```

RUN;

%MEND SETUP;
%SETUP;

DATA _NULL_;
  FILE CMDS;
  PUT &OPENXLS;
  X=SLEEP(2);
  PUT '[app.minimize()]';
  RUN;

*7/23/2010 LLU, Wait until Word ready;
FILENAME CMNDS DDE "WINWORD|SYSTEM";

DATA _NULL_;
  LENGTH FID RC START STOP TIME 8;
  FID=FOPEN('CMNDS','S');
  IF (FID LE 0) THEN DO;
    RC=SYSTEM('START WINWORD');
    START=DATETIME();
    STOP=START+10;
    DO WHILE (FID LE 0);
      FID=FOPEN('CMNDS','S');
      TIME=DATETIME();
      IF (TIME GE STOP) THEN FID=1;
    END;
  END;
  RC=FCLOSE(FID);
  RUN;

DATA _NULL_;
  FILE CMNDS;
  PUT &OPENWRD;
  X=SLEEP(2);
  PUT &SAVEWRD;
  PUT '[APPMINIMIZE]';
  RUN;

%MACRO COPYIT;
%DO I=1 %TO 10;

  %LET WDMACRO=NEWPASTE&I;
  %LET EXMACRO=COPY&I;

  FILENAME CMDS DDE "EXCEL|SYSTEM";
  DATA _NULL_;
    X=SLEEP(1);
    RUN;

  DATA _NULL_;
    FILE CMDS;
    DDECommand = '[Run(" | | "&exmacro" | | ',0)]' ;
    PUT DDEcommand ;

  RUN;
  FILENAME CMDS CLEAR;

  FILENAME CMNDS DDE 'WINWORD|SYSTEM';

  DATA _NULL_;
    X=SLEEP(2);
    RUN;

  DATA _NULL_;
    FILE CMNDS;
    put '[ToolsMacro .Name = " " &wdmacro" "', .Run]';
  RUN;

```

```

%END;
%MEND COPYIT;
%COPYIT;

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Region1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&NAME";
RUN;

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Quarter1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&QUARTER";
RUN;

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Year1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&YEAR";
RUN;

DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="YourSay"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&YOURSAY";
RUN;

DATA _NULL_;
FILE CMNDS;
X=SLEEP(.2);
put '[EditGoto.Destination="Region2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&NAME";
RUN;

DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="Quarter2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&QUARTER";
RUN;

DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Year2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&YEAR";
RUN;

*savs as pdf;
%LET CMACRO=SaveAspdf;

FILENAME CMNDS DDE 'WINWORD|SYSTEM';
DATA _NULL_;
FILE CMNDS;

PUT '[ToolsMacro .Name = "' &CMACRO " ", .Run]';
run;

FILENAME CMDS DDE "EXCEL|SYSTEM";

```



```
DATA _NULL_;  
  FILE CMDS;  
  *PUT '[SAVE]'; *no save for Excel;  
  PUT '[CLOSE(FALSE)]';  
  PUT '[QUIT]';  
RUN;  
  
/*reserved for future use;  
FILENAME CMNDS DDE 'WINWORD|SYSTEM';  
  
DATA _NULL_;  
  FILE CMNDS;  
  
  PUT '[fileSave] ' ;  
  PUT '[FileClose 2] ' ;  
RUN;  
*/  
  
%MEND;
```

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APPENDIX K
CHANGES TO COMPOSITES

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In the Beneficiary reports, it is important to note that during FY 2009, the HCSDB core changed. Instead of CAHPS Version 3.0, core questions were taken from CAHPS Version 4.0. To facilitate the change, two versions of the questionnaire were fielded in the first two quarters. Results from both questionnaires appear in the Consumer Watch and Beneficiary Reports. The following table compares the questions contained in five currently reported composites as they appear in the CAHPS Version 4.0 compared to CAHPS Version 3.0. Each question is shown next to a question concerning a related topic from the previous questionnaire. When we compare past results to current results for the Version 3.0 results we are comparing them to the adjacent questions. The remaining Version 3.0 composite, “Courteous and Helpful Office Staff,” has been eliminated.

Getting Needed Care

Version 3.0	Version 4.0
<p>Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?</p> <p>A big problem, a small problem, no problem.</p>	
<p>In the last 12 months, how much of a problem, if any, was it to see a specialist that you needed to see?</p> <p>A big problem, a small problem, no problem.</p>	<p>In the last 12 months, how often was it easy to get appointments with a specialist?</p> <p>Never, sometimes, usually, always</p>
<p>In the last 12 months, how much of a problem, if any, was it to get the care, tests or treatment you or a doctor believed necessary?</p> <p>A big problem, a small problem, no problem.</p>	<p>In the last 12 months, how often was it easy to get the care, tests or treatment you thought you needed through your health plan?</p> <p>Never, sometimes, usually, always.</p>
<p>In the last 12 months, how much of a problem, if any, were delays in health care while you waited for approval from your health plan?</p> <p>A big problem, a small problem, no problem.</p>	

Getting Care Quickly

Version 3.0	Version 4.0
<p>In the last 12 months, when you called during regular office hours, how often did you <u>get</u> the help or advice you <u>needed</u>?</p> <p>Never, sometimes, usually, always.</p>	
<p>In the last 12 months, when you <u>needed care right away</u> for an illness, injury, or condition, how often did you get care as soon as you wanted?</p> <p>Never, sometimes, usually, always.</p>	<p>In the last 12 months, when you <u>needed care right away</u>, how often did you get care as soon as you thought you needed?</p> <p>Never, sometimes, usually, always.</p>
<p>In the last 12 months, not counting times you needed health care right away, how often did you get an appointment for health care as soon as you wanted?</p> <p>Never, sometimes, usually, always.</p>	<p>In the last 12 months, <u>not</u> counting times you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?</p> <p>Never, sometimes, usually, always.</p>
<p>In the last 12 months, how often were you taken to the exam room <u>within 15 minutes</u> of your appointment?</p> <p>Never, sometimes, usually, always.</p>	

Doctors' Communication

Version 3.0	Version 4.0
<p>In the last 12 months, how often did doctors or other health providers <u>listen carefully to you</u>?</p> <p>Never, sometimes, usually, always.</p>	<p>In the last 12 months, how often did your personal doctor listen carefully to you?</p> <p>Never, sometimes, usually, always.</p>
<p>In the last 12 months, how often did doctors or other health providers <u>explain things</u> in a way you could understand?</p> <p>Never, sometimes, usually, always.</p>	<p>In the last 12 months, how often did your personal doctor explain things in a way that was easy to understand?</p> <p>Never, sometimes, usually, always.</p>
<p>In the last 12 months, how often did doctors or other health providers show <u>respect for what you had to say</u>?</p> <p>Never, sometimes, usually, always.</p>	<p>In the last 12 months, how often did your personal doctor show respect for what you had to say?</p> <p>Never, sometimes, usually, always.</p>
<p>In the last 12 months, how often did doctors or other health providers <u>spend enough time</u> with you?</p> <p>Never, sometimes, usually, always.</p>	<p>In the last 12 months, how often did your personal doctor spend enough time with you?</p> <p>Never, sometimes, usually, always.</p>

Customer Service

<p>In the last 12 months, did you look for any <u>information</u> about how your health plan works in <u>written material or on the Internet</u>? Yes, No</p>	
<p>In the last 12 months, how much of a problem, if any, was it to find or understand this information?</p> <p>A big problem, a small problem, no problem.</p>	
<p>In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your health plan's customer service?</p> <p>A big problem, a small problem, no problem.</p>	<p>In the last 12 months, how often did your health plan's customer service give you the information or help you needed?</p> <p>Never, sometimes, usually, always.</p>
<p>In the last 12 months, how much of a problem, if any, did you have with paperwork for your health plan?</p> <p>A big problem, a small problem, no problem.</p>	
	<p>In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect?</p> <p>Never, sometimes, usually, always.</p>

Claims Handling

Version 3.0	Version 4.0
In the last 12 months, how often did your health plan handle your claims <u>in a reasonable time</u> ?	In the last 12 months, how often did your health plan handle your claims quickly?
Never, sometimes, usually, always.	Never, sometimes, usually, always.
In the last 12 months, how often did your health plan handle your claims <u>correctly</u> ?	In the last 12 months, how often did your health plan handle your claims correctly?
Never, sometimes, usually, always.	Never, sometimes, usually, always.

Smoking Rates

Change in smoking question. Under Version 3.0, we defined smokers as those who currently smoke or who have quit smoking in the past year. The current definition includes only those who currently smoke.

Smoking

Version 3.0	Version 4.0
Have you ever smoked at least 100 cigarettes in your entire life?	Have you ever smoked at least 100 cigarettes in your entire life?
Never, sometimes, usually, always	Never, sometimes, usually, always
Do you smoke every day, some days or not at all?	Do you smoke every day, some days or not at all?
Every day, some days, not at all	Every day, some days, not at all
How long has it been since you quit smoking?	
Less than 12 months, 12 months or more	

To prepare for the transition, we analyzed data from the quarters during which both the Version 3.0 and Version 4.0 questionnaires were fielded. We found, controlling for beneficiary characteristics, that the difference between the survey response and benchmark results from the National CAHPS Benchmarking Database did not change significantly between Version 3.0 and Version 4.0. As a result, our transition method was to present Version 3.0 results in comparison to Version 3.0 benchmarks and Version 4.0 results in comparison to Version 4.0 benchmarks. Where trends are presented, the corresponding Version 3.0 and Version 4.0 questions in the table above are presented together. For quarters during which both Version 3.0 and Version 4.0 were fielded, we average together results from the two questionnaires and the two benchmarks, weighted equally. For annual results, Version 3.0 is given a weight of 1 and Version 4.0 is given a weight of 3. One exception is the “Customer Service” composite. We removed the Version 3.0 results from the reports and include only the Version 4.0 results. Another exception is the non-smoking rate and smoking cessation counseling rate. These rates are calculated from the old data using the new algorithm and compared to the Healthy People 2010 benchmark (for the non-smoking rate) and benchmark calculated from the Version 4.0 questionnaire (for the counseling rate).

In order to make results more comparable over time, we calculated an offset. The offset is the difference between the Version 3.0 benchmark and Version 4.0 benchmark for the same patient population. That difference is added to the Version 3.0 benchmark and score, multiplied by a factor equal to the proportion of Version 3.0 questionnaires fielded in the relevant time period. The offset does not affect significance testing or testing for trend.