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2006 Health Care Survey of DoD Beneficiaries:

Adult Technical Manual

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Chapter

1

Introduction

The 2006 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). Standard Technology, Inc (STI) 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, Inc. (MPR, Washington, D.C.) prepares a sample of 50,000 adult beneficiaries. Synovate fields the survey each quarter. MPR analyzes the survey data, reports on the results and prepares a public use file and a Codebook and Users' Guide. Each year, MPR prepares an annual public use dataset, this document, the "2006 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. The 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. The manual enables an analyst to link each cell in

each table (or chart) in the reports to the associated question in the adult questionnaire and/or to the variable in the survey database. The 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 2006 adult sample design is based on three sample stratifications—enrollment type, beneficiary type, and geographic area. *Enrollment type* is defined by whether or not the beneficiary is enrolled in TRICARE Prime. Unlike in previous surveys, we did not create separate strata for beneficiaries enrolled in Prime with a military primary care manager (PCM) and beneficiaries enrolled in Prime with a civilian PCM.

Beneficiary type is defined as active duty, active duty family members, retirees and family members under age 65, and non-active duty beneficiaries and their family members age 65 and over. Compared with the MHS population, this stratification causes a larger proportion of the sample to be allocated to active duty personnel and their family members, and a smaller proportion of the sample to be allocated to retirees.

The *geographic area* stratification depends on enrollment type. Those enrolled in Prime who have a military PCM typically receive much of their health care from a military treatment facility (MTF), that is a military hospital or clinic. The geographic stratification for such beneficiaries is determined by the MTF that bears the financial responsibility for the beneficiary's health care. This stratification does not depend on the location of the beneficiary's residence, although most such beneficiaries live near of the responsible MTF.

Those enrolled in Prime with a civilian PCM typically receive much of their health care from, a TRICARE contractor. The geographic stratification for these beneficiaries is the catchment area¹ in which they live.

Those not enrolled in Prime typically receive much of their care through TRICARE Extra/Standard (CHAMPUS) or through a non-MHS health plan. The service area they live in determines the geographic stratification. Conceptually, the service area is the health care market area in which the beneficiary resides. Operationally, the service area is the group of catchment areas in the metropolitan area the beneficiary lives in. For beneficiaries who do not live in a metropolitan area, the service area is the same as the catchment area in which they live.

As with last year's survey, more military clinics, as opposed to military hospitals, were included in the list of geographic areas. This means that a larger proportion of the 2006 sample is allocated to beneficiaries who receive much of their health care from a military clinic, and a smaller proportion is allocated to those receiving much of their care from a military hospital.

2. 2006 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 will be performed on a fiscal year basis. In previous years, reporting and documentation were based on calendar years. Thus this document, the "2006

¹ Catchment area is the defined geographic area served by a hospital, clinic, or dental clinic and delineated on the basis of such facilities as population distribution, natural geographic boundaries, and transportation accessibility. The geographic areas are determined by the Assistant Secretary of Defense (Health Affairs) and are defined by a set of 5-digit zip codes, usually within an approximate 40-mile radius of military inpatient treatment facilities.

Health Survey of DoD Beneficiaries: Adult Technical Manual”, describes Quarters I-IV of fiscal year 2006. Quarter I FY 2006 also appeared in the 2005 Adult Technical Manual as Quarter IV, 2005. Throughout this document, Quarter I, 2006 refers to Quarter I of fiscal year 2006. The adult questionnaire for Quarters I-IV is reproduced in Appendix A. The 2006 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 2005 HCSDb and this year’s survey is the 2006 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 2006, we sent surveys to a random sample of 50,000 adult MHS beneficiaries. By the end of the fielding period in Quarter I, we received completed surveys from 29 percent of the sample. In Quarter II, 30 percent of the sample members returned completed surveys while in Quarter III, 28 percent of the sample members returned completed surveys. In Quarter IV, we received complete surveys from 26 percent of the beneficiaries sampled. Information pertaining to how we 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 31 percent for Quarter I, 32 percent for Quarter II, 29 percent for Quarter III, and 29 percent for the combined annual dataset.

4. Database Development

MPR 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, MPR 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

MPR 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>:

- 2006 TRICARE Beneficiary Reports
- 2006 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, the development of satisfaction and health status scales, 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 2006 TRICARE Beneficiary Reports
- Appendix F: SAS Code for File Development – Quarters I-IV
- Appendix G: SAS Code for Statistical and Web Specifications for the 2006 TRICARE Beneficiary Reports – Quarters I-IV
- Appendix H: SAS Code for 2006 TRICARE Consumer Watch – Quarters I-IV and Combined Annual
- Appendix I: Sample SUDAAN code for calculating variance estimates

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 2006 Adult HCSDB consists of variables from various sources. When Synovate delivers the file to MPR 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

MPR removes all identifying information such as SSN to protect the confidentiality of the respondents. MPR 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, MPR updates and cleanses 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, 2006 database by source. For specific information on variable location within the database, refer to the “2006 Adult Health Care Survey of DoD Beneficiaries: Adult Codebook and User’s Guide.”

1. Data Sources

a. DEERS

STI provided the sampling frame to MPR 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

MPR 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

MPR 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

MPR 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 2006 ADULT HCSDB DATA FILE – QUARTERS I-IV

SAMPLING VARIABLES	
MPRID	- Unique MPR Identifier
SVCSMPL	- Branch of Service Sampling Variable
SEXSMPL	- Sex Sampling Variable
STRATUM	- Sampling stratum
CACSMPL	- Catchment Area
ENBGSMPL	- Enrollment by beneficiary category
MPCSMPL	- Military Personnel Category
NHFF	- Stratum Sample Size
SERVAREA	- Service Area
DCATCH	- Catchment Area
MSM	- Multiple Service Market Areas
D_FAC	- Facility Type Code
D_HEALTH	- Health Service Region
TNEXREG	- TRICARE Next Generation of Contracts Region grouping
DEERS VARIABLES	
SERVAFF	- Service Affiliation
MRTLSTAT	- Marital Status
RACEETHN	- Race/Ethnic Code
PNSEXCD	- Person Gender
LEGDDSCD	- DDS Code
DAGEQY	- Age at time of data collection
FIELDAGE	- Age at start of fielding period
PCM	- Primary Manager Code (Civilian or Military)
ACV	- Alternate Care Value
DBENCAT	- Beneficiary Category
DMEDELG	- Medical Privilege Code
DSPONSVC	- Derived Sponsor Branch of Service
MBRRELCD	- Member Relationship Code
MEDTYPE	- Medicare Type
PATCAT	- Aggregated Beneficiary Category
PNLCATCD	- Personnel Category Code (Duty Status)
QUESTIONNAIRE RESPONSES	
H06001	- Are you the person listed on envelope
H06002A	- Health plan(s) covered: TRICARE Prime
H06002C	- Health plan(s) covered: TRICARE Ext/Stnd
H06002F	- Health plan(s) covered: Medicare
H06002G	- Health plan(s) covered: FEHBP
H06002H	- Health plan(s) covered: Medicaid
H06002I	- Health plan(s) covered: Civilian HMO
H06002J	- Health plan(s) covered: Other civilian
H06002K	- Health plan(s) covered: USFHP
H06002L	- Health plan(s) covered: Not sure
H06002M	- Health plan(s) covered: Veterans
H06002N	- Health plan(s) covered: TRICARE Plus
H06002O	- Health plan(s) covered: TRICARE For Life
H06002P	- Health plan(s) covered: TRICARE Supplemental Insurance
H06002Q	- Health plan(s) covered: TRICARE Reserve
H06003	- Currently Covered Medicare Part A
H06004	- Currently Covered Medicare Part B
H06005	- Currently Covered Medicare Supplemental
H06006	- Which health plan did you use most in the past 12 months?

- H06007 - Months or years in a row with health plan
- H06008 - Have one person you think of as personal doctor
- H06009 - Rating of your personal doctor or nurse
- H06010 - Had same personal Dr/nurse before joining health plan
- H06011 - Health plan: problem to get a personal doctor or nurse you are happy with
- H06012 - In last year: you or a doctor or nurse think you needed to see a specialist
- H06013 - In last year: how much of a problem to see a specialist you needed to see
- H06014 - In last year: did you see a specialist
- H06015 - Rating of specialist seen most often in last year
- H06016 - In last year: called a doctor's office or clinic during regular office hours to get help or advice for yourself
- H06017 - In last year: when you called during regular office hours how often got help or advice you needed
- H06018 - In last year: have illness/injury/condition that needed care right away
- H06019 - In last year: when needed care right away for an illness or injury got care as soon as wanted
- H06020 - In last year: wait between trying to get care and actually seeing a provider for an illness or injury
- H06021 - In last year: made any appointment for regular or routine health care
- H06022 - In last year: how often made appointments for regular or routine health care as soon as you wanted
- H06023 - In last year: days between making an appointment for regular or routine care and actually seeing a provider
- H06024 - In last year: times went to an emergency room for own care
- H06025 - In last year: times went to a doctors office or clinic for yourself (not counting times went to an emergency room)
- H06026 - In last year: did you/Dr believe you needed any care, tests, or treatment
- H06027 - In last year: problem to get necessary care
- H06028 - In last year: need approval from health plan for any care, tests, or treatment
- H06029 - In last year: problem with delays in healthcare while waiting for approval from health plan
- H06030 - In last year: how often taken to exam room within 15 minutes of appointment
- H06031 - In last year: how often office staff at a doctor's office or clinic treat you with courtesy and respect
- H06032 - In last year: how often office staff at a doctor's office or clinic as helpful as expected
- H06033 - In last year: how often doctors or other health providers listen carefully to you
- H06034 - In last year: how often doctors or other health providers explain things in way you could understand
- H06035 - In last year: how often doctors or other health providers show respect for what you had to say
- H06036 - In last year: how often doctors or other health providers spend enough time with you
- H06037 - Rating of all healthcare in last year
- H06038 - In last year: facility used most for health care
- H06039 - In last year: sent in any claims to your health plan
- H06040 - In last year: health plan handled claims in a reasonable time
- H06041 - In last year: how often health plan handled claims correctly
- H06042 - In last year: look for any information in written materials/internet on how health plan works
- H06043 - In last year: problem to find or understand information in the written materials/internet
- H06044 - In last year: called health plan's customer service to get information or help
- H06045 - In last year: problem to get the help you needed when called health plan's customer service
- H06046 - In last year: have to fill out paperwork for your health plan
- H06047 - In last year: how much problem with paperwork for your health plan
- H06048 - Rating of all experience with health plan

- H06049 - Blood pressure: when last reading
- H06050 - Blood pressure: know if blood pressure is too high or not
- H06051 - When did you last have a flu shot
- H06052 - Smoked at least 100 cigarettes in life
- H06053 - Smoke everyday, some days, or not at all
- H06054 - How long since you quit smoking
- H06055 - Last year: number of visits advised to quit smoking
- H06056 - Last year: number of visits medication was recommended or discussed to assist with quitting smoking
- H06057 - Last year: number of visits recommended or discussed methods and strategies to assist quitting smoking
- H06058 - Are you male or female
- H06059 - Female: Last have a Pap smear test
- H06060 - Female: Are you under age 40
- H06061 - Female: Last time breasts checked mammography
- H06063 - Female: Been pregnant in last year or pregnant now
- H06064 - Female: In what trimester is your pregnancy
- H06065 - Female: Trimester first received prenatal care
- H06066 - In general how would you rate your overall health
- H06067 - Limited in any way in any activities because of any impairment or health problem
- H06068F - Feet portion of height without shoes
- H06068I - Inches portion of height without shoes
- H06069 - Weight without shoes
- H06070 - Are you Spanish, Hispanic, or Latino
- H06070A - No, Not Spanish, Hispanic, or Latino
- H06070B - Yes, Mexican, Mexican American, Chicano
- H06070C - Yes, Puerto Rican
- H06070D - Yes, Cuban
- H06070E - Yes, Other Spanish, Hispanic, or Latino
- 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 Islanders
- SRAGE - What is your age now?
- S06G18 - Self/Spouse/Parent reservist on active duty for more than 30 consecutive days in support of contingency operations in past year
- S06G19 - Reservist activated for contingency operations for more than 30 consecutive days in past year
- S06G20 - Operation you were most recently activated in support of contingency operations
- S06G21 - When activated for contingency operation
- S06G22 - Length of time initial activation orders stated that this activation would last
- S06G23 - Spouse/parent reservist activated for contingency operations for more than 30 consecutive days in past year
- S06G24 - Contingency operation for which reservist spouse/parent was most recently activated
- S06G25 - When was reservist spouse/parent first activated for this operation
- S06G26 - Length of time initial activation orders stated that this contingency activation would last
- S06G27 - Covered by civilian health insurance before becoming eligible for TRICARE
- S06G28 - Current health care coverage
- S06G29A - Don't use TRICARE: Greater choice of doctors with my civilian plan
- S06G29B - Don't use TRICARE: Better customer service with civilian plan
- S06G29C - Don't use TRICARE: Personal doctor is not available through TRICARE
- S06G29D - Don't use TRICARE: TRICARE benefits are poor compared to civilian plan
- S06G29E - Don't use TRICARE: It is easier to get care through civilian plan

S06G29F	- Don't use TRICARE: Pay less for civilian care than would for TRICARE
S06G29G	- Don't use TRICARE: No military facilities near me
S06G29H	- Don't use TRICARE: Prefer civilian doctors
S06G29I	- Don't use TRICARE: Prefer civilian hospitals
S06G29J	- Don't use TRICARE: Happy with civilian plan and have no reason to change
S06G29K	- Don't use TRICARE: Another reason
S06G30	- Self/policy holder now pay all/part of the premium for your civilian health insurance
S06G31	- Problem getting information about TRICARE benefits once become eligible for TRICARE
S06G32	- Is personal doctor a civilian
S06G33	- Personal doctor accepts TRICARE
S06G34	- Difficult to see personal doctor once become eligible for TRICARE
S06G35	- Difficult to see specialist once become eligible for TRICARE
S06G36	- Self or a reservist in immediate family deactivated after 11/6/03
S06G37	- As reservist/family member of reservist, eligible for TRICARE for any period of time immediately before the reservist reported to active duty
S06G38	- Length of time in days eligible for this coverage
S06G39	- Eligible for TRICARE coverage for any period of time after self/reservist in immediate family deactivated
S06Q01	- Had blood stool test using a home kit
S06Q02	- Time since last blood stool test using a home kit
S06Q03	- Had sigmoidoscopy or colonoscopy exam
S06Q04	- Time since last sigmoidoscopy
S06Q05	- Time since last colonoscopy
S06Q06	- Personal doctor or nurse talk about colon cancer or colon cancer screening tests
S06V01	- In last year: Amount of healthcare from TRICARE civilian network(TCN)
S06V02	- In last year: Problem getting wanted healthcare from TCN
S06V05	- In last year: Learn physician whom you wanted to see left TCN
S06V06	- In last year: Problem finding convenient doctor from TCN
S06V07	- In last year: Problem finding specialist in civilian network
S06V08	- In last year: Tried to make an appointment with civilian Dr not in TCN
S06V09	- In last year: Wanted Dr not seeing old/new TRICARE patients
S06V10	- In last year: Problem finding Dr who will accept TRICARE
S06V11A	- Prblm fndng civ ntwrk prsnl Dr: Travel distance too long
S06V11B	- Prblm fndng civ ntwrk prsnl Dr: Communicating with doctor(s)
S06V11C	- Prblm fndng civ ntwrk prsnl Dr: Doctor(s) not taking new patients
S06V11D	- Prblm fndng civ ntwrk prsnl Dr: Could not find desired specialist
S06V11E	- Prblm fndng civ ntwrk prsnl Dr: Didn't like doctor(s)
S06V11F	- Prblm fndng civ ntwrk prsnl Dr: Wait for an appointment was too long
S06V11G	- Prblm fndng civ ntwrk prsnl Dr: Could not find information about doctors
S06V11H	- Prblm fndng civ ntwrk prsnl Dr: Other
S06V12A	- Prblm fndng civ ntwrk spclst: Travel distance too long
S06V12B	- Prblm fndng civ ntwrk spclst: Communicating with doctor(s)
S06V12C	- Prblm fndng civ ntwrk spclst: Doctor(s) not taking new patients
S06V12D	- Prblm fndng civ ntwrk spclst: Didn't like doctor(s)
S06V12E	- Prblm fndng civ ntwrk spclst: Wait for an appointment was too long
S06V12F	- Prblm fndng civ ntwrk spclst: Could not find information about doctors
S06V12G	- Prblm fndng civ ntwrk spclst: Other
S06V13	- In last year: Problem finding civilian Dr/nurse who will accept TRICARE
S06V14A	- Prblm fndng prsnl dr accepts TRICARE: Travel distance too long
S06V14B	- Prblm fndng prsnl dr accepts TRICARE: Communicating with doctor(s)
S06V14C	- Prblm fndng prsnl dr accepts TRICARE: Doctor(s) not accepting TRICARE fee schedule
S06V14D	- Prblm fndng prsnl dr accepts TRICARE: Could not find desired speciality
S06V14E	- Prblm fndng prsnl dr accepts TRICARE: Didn't like doctor(s)
S06V14F	- Prblm fndng prsnl dr accepts TRICARE: Wait for an appointment was too long
S06V14G	- Prblm fndng prsnl dr accepts TRICARE: Could not find information about doctors

S06V14H	- Prblm fndng prsnl dr accepts TRICARE: Other
S06V15	- Tried to make an appointment with non-TRICARE civilian specialist
S06V16	- Speciality of the last non-network civilian specialist
S06V17	- In last year: Problem getting appointment with non-network(nn) civilian specialist
S06V18A	- Prblm fndng nn civ spclst: Travel distance too long
S06V18B	- Prblm fndng nn civ spclst: Communicating with doctor(s)
S06V18C	- Prblm fndng nn civ spclst: Doctor(s) not accepting TRICARE fee schedule
S06V18D	- Prblm fndng nn civ spclst: Didn't like doctor(s)
S06V18E	- Prblm fndng nn civ spclst: Wait for an appointment was too long
S06V18F	- Prblm fndng nn civ spclst: Could not find information about doctors
S06V18G	- Prblm fndng nn civ spclst: Other
S06B01	- Self rating of overall mental/emotional health
S06B02	- Last year: Needed treatment/counseling for personal/family problem
S06B03	- Last year: Problem getting needed treatment/counseling
S06B04	- Last year: Rate of treatment/counseling received
S06Y01	- In last 90 days, filled any prescriptions using TRICARE benefit
S06Y06A	- In last 90 days, filled prescription at MTF: Was at MTF for a medical appointment
S06Y06B	- In last 90 days, filled prescription at MTF: Visiting the military installations for another reason
S06Y06C	- In last 90 days, filled prescription at MTF: MTF pharmacy conveniently located
S06Y06D	- In last 90 days, filled prescription at MTF: Prescription drugs are free at the MTF pharmacy
S06Y06E	- In last 90 days, filled prescription at MTF: Like the service at the MTF pharmacy
S06Y06F	- In last 90 days, filled prescription at MTF: Doctor recommended I use the MTF
S06Y06G	- In last 90 days, filled prescription at MTF: Better instructions and information at MTF pharmacy
S06Y06H	- In last 90 days, filled prescription at MTF: Trust MTF pharmacy to fill prescriptions correctly
S06Y06I	- In last 90 days, filled prescription at MTF: Other reason
S06Y06J	- In last 90 days, filled prescription at MTF: Haven't used MTF pharmacy in past 90 days
S06Y17	- In last 90 days, filed claims for prescriptions filled at non-network pharmacies
S06Y18A	- In last 90 days, encountered claim problems: None
S06Y18B	- In last 90 days, encountered claim problems: Instructions for completing the claim form were difficult to understand
S06Y18C	- In last 90 days, encountered claim problems: Difficult to obtain claim form
S06Y18D	- In last 90 days, encountered claim problems: Took more than 20 days for claim to be processed
S06Y19A	- In last 90 days, why prescription filled at non-network pharmacy: Used other health insurance
S06Y19B	- In last 90 days, why prescription filled at non-network pharmacy: Traveling
S06Y19C	- In last 90 days, why prescription filled at non-network pharmacy: Network pharmacy not conveniently located
S06Y19D	- In last 90 days, why prescription filled at non-network pharmacy: Didn't know how to determine pharmacy was in network
S06Y19E	- In last 90 days, why prescription filled at non-network pharmacy: Prefer non-network pharmacy
S06Y19F	- In last 90 days, why prescription filled at non-network pharmacy: Didn't know there was a difference between network and non-network pharmacy
S06Y19I	- In last 90 days, why prescription filled at non-network pharmacy: Other reason
S06Y19J	- In last 90 days, why prescription filled at non-network pharmacy: Haven't used non-network pharmacy in last 90 days
S06Y22	- How often got prescription drugs from TRICARE mail order pharmacy(TMOP) within 14 days of the day you placed your order
S06Y23	- In last 90 days: Tried to use the Express Scripts website to order refills
S06Y24	- In last 90 days: Problem to order refills on the Express Scripts website
S06Y26A	- In last 90 days: Filled any prescriptions at MTF pharmacy

- S06Y26B - In last 90 days: Filled any prescriptions at TMOP pharmacy
- S06Y26C - In last 90 days: Filled any prescriptions at Network Civilian (NC) pharmacy
- S06Y26D - In last 90 days: Filled any prescriptions at Non-Network Civilian (NNC) pharmacy
- S06Y27A - In last 90 days: Information about filled prescriptions from MTF pharmacy
- S06Y27B - In last 90 days: Information about filled prescriptions from TMOP pharmacy
- S06Y27C - In last 90 days: Information about filled prescriptions from NC pharmacy
- S06Y27D - In last 90 days: Information about filled prescriptions from NNC pharmacy
- S06Y28A - Distance traveled from home to MTF pharmacy
- S06Y28B - Distance traveled from home to NC pharmacy
- S06Y28C - Distance traveled from home to NNC pharmacy
- S06Y29A - In last 90 days: How often had to wait more than 30 min for filled prescription at MTF pharmacy
- S06Y29B - In last 90 days: How often had to wait more than 30 min for filled prescription at NC pharmacy
- S06Y29C - In last 90 days: How often had to wait more than 30 min for filled prescription at NNC pharmacy
- S06Y30A - Rate MTF pharmacy used in last 90 days
- S06Y30B - Rate TMOP pharmacy used in last 90 days
- S06Y30C - Rate NC pharmacy used in last 90 days
- S06Y30D - Rate NNC pharmacy used in last 90 days
- S06Y31 - Used Network Civilian pharmacy in last 90 days
- S06Y32A - Rate NC pharmacy's Claims Handling
- S06Y32B - Rate NC pharmacy's Customer Service Phone Line
- S06Y32C - Rate NC pharmacy's Information from the Pharmacist
- S06Y33 - Last 90 days: Filled prescriptions at civilian pharmacy for medications needed for longer than 90 days
- S06Y34A - Filled long term prescription at a civilian pharmacy: Didn't know how to get mail order pharmacy drugs
- S06Y34B - Filled long term prescription at a civilian pharmacy: Uncomfortable getting drugs through the mail
- S06Y34C - Filled long term prescription at a civilian pharmacy: Civilian pharmacy is more convenient
- S06Y34D - Filled long term prescription at a civilian pharmacy: Medication unavailable in mail order pharmacy
- S06Y34E - Filled long term prescription at a civilian pharmacy: Like service at civilian pharmacy
- S06Y34F - Filled long term prescription at a civilian pharmacy: Get better instructions and information from civilian pharmacy
- S06Y34G - Filled long term prescription at a civilian pharmacy: Medication unavailable in MTF pharmacy
- S06Y34H - Filled long term prescription at a civilian pharmacy: Trust civilian pharmacy to fill prescription correctly
- S06Y34I - Filled long term prescription at a civilian pharmacy: No MTF pharmacy nearby
- S06Y34J - Filled long term prescription at a civilian pharmacy: Other reasons
- S06Y35 - In Last 90 days: Used TRICARE mail order pharmacy
- S06Y36A - TMOP info from:TRICARE website
- S06Y36B - TMOP info from:Internet not TRICARE website
- S06Y36C - TMOP info from:Mailings
- S06Y36D - TMOP info from:MTF pharmacy
- S06Y36E - TMOP info from:Military publications/periodicals
- S06Y36F - TMOP info from:Friend/Friends
- S06Y36G - TMOP info from:Another source
- S06Y36H - TMOP info from:None in last 12 months
- S06Y36I - TMOP info from:Nothing known about TMOP
- S06Y37A - Did not use TMOP:Didn't know I could
- S06Y37B - Did not use TMOP:Didn't know how
- S06Y37C - Did not use TMOP:Costs too much
- S06Y37D - Did not use TMOP:Uncomfortable getting drugs by mail

S06Y37E	- Did not use TMOP:Medication unavailable from mail order pharmacy
S06Y37F	- Did not use TMOP:Difficult to use
S06Y37G	- Did not use TMOP:Civilian pharmacy is more convenient
S06Y37H	- Did not use TMOP:Trust civilian pharmacy to fill prescriptions correctly
S06Y37I	- Did not use TMOP:Civilian pharmacy has better instructions and information
S06Y37J	- Did not use TMOP:MTF pharmacy is more convenient
S06Y37K	- Did not use TMOP:Trust MTF pharmacy to fill prescriptions correctly
S06Y37L	- Did not use TMOP:MTF pharmacy has better instructions and information
S06Y37M	- Did not use TMOP:Need my prescription filled immediately
S06Y37N	- Did not use TMOP:Other reasons

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
N6	- Coding Scheme Note 6
N7	- Coding Scheme Note 7
N8	- Coding Scheme Note 8
N9	- Coding Scheme Note 9
N10	- Coding Scheme Note 10
N10AA	- Coding Scheme Note 10AA
N10A	- Coding Scheme Note 10A
N10B	- Coding Scheme Note 10B
N10C	- Coding Scheme Note 10C
N10D	- Coding Scheme Note 10D
N10E	- Coding Scheme Note 10E
N10F	- Coding Scheme Note 10F
N10G	- Coding Scheme Note 10G
N10H	- Coding Scheme Note 10H
N10I	- Coding Scheme Note 10I
N10J	- Coding Scheme Note 10J
N10K	- Coding Scheme Note 10K
N10L	- Coding Scheme Note 10L
N10M	- Coding Scheme Note 10M
N13	- Coding Scheme Note 13
N14	- Coding Scheme Note 14
N15	- Coding Scheme Note 15
N16	- Coding Scheme Note 16
N16A	- Coding Scheme Note 16A
N16B	- Coding Scheme Note 16B
N16C	- Coding Scheme Note 16C
N16D	- Coding Scheme Note 16D
N16E	- Coding Scheme Note 16E
N16F	- Coding Scheme Note 16F
N16G	- Coding Scheme Note 16G
N16H	- Coding Scheme Note 16H
N17	- Coding Scheme Note 17
N18A	- Coding Scheme Note 18A

N18B	- Coding Scheme Note 18B
N19	- Coding Scheme Note 19
N20	- Coding Scheme Note 20
MISS_1	- Count of: Violates Skip Pattern
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_8	- Count of: Multiple response 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
XREGION	- Region
XCATCH	- XCATCH - Catchment Area (Reporting)
CONUS	- CONUS/OCONUS Indicator
XOCONUS	- Overseas Europe/Pacific/Latin Indicator
OUTCATCH	- Out of Catchment Area Indicator
XSEXA	- Male or Female (Recode)
XBNFGRP	- Constructed Beneficiary Group
KMILOFFC	- Office wait of 15 min or more at military facility
KCIVOFFC	- Office wait of 15 min or more at civilian facility
KBGPRB1	- Big problem getting referrals to specialist
KBGPRB2	- Big problem getting necessary care
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_SMOKH	- Smoker under HEDIS definition
HP_CESH	- Had smoking cessation counseling- HEDIS
HP_OBESE	- Obese or morbidly obese

WEIGHTS

POSTCELL	- Poststratification cell for new weights
BWT	- Basic Sampling Weight
FWRWT	- Final Quarterly Weight
FWRWT1- FWRWT60	- Quarterly Replicate Weights
CFWT	- Combined Annual Final Weight
CFWT1-CFWT240	- Combined Annual Replicate Weight

2. Variable Naming Conventions

To preserve continuity with survey data from previous years, MPR followed the same variable naming conventions for the core questions used for the 1996, 1997, 1998, 1999, 2000, 2002, 2003, 2004, 2005 and 2006 survey data. Variable naming conventions for the 2006 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 2006 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
H= Health Beneficiaries (18 and older, Adult Questionnaire)	06	001 to 070	A to Q are used to label responses associated with a multiple response question
S = Supplemental Question		<p>Quarter I G18-G39 – Supplemental questions about reservists.</p> <p>Quarter II V01-V02, V05-V018G – Supplemental questions about TRICARE’s civilian network.</p> <p>Q01-Q06 – Supplemental questions about colon cancer or colon cancer screening tests.</p> <p>Quarter III B01-B04 – Supplemental questions about overall mental or emotional health.</p> <p>V01-V02, V05-V018G – Supplemental questions about TRICARE’s civilian network.</p> <p>Quarter IV Y01, Y06A-Y06J, Y17-19J, Y22-Y24, Y26-Y37N – Supplemental questions about prescription medicine.</p>	<p>_O denotes an original version of a recoded variable</p>

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 final weight and number referring to replicate weights, e.g., FWRWT10

3. Missing Value Conventions

The 2006 conventions for missing variables are the same as the 2005 conventions. All missing value conventions used in the 2006 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 MPR, Synovate used variable names and response values provided by MPR in the annotated questionnaires (see Appendix A). Synovate delivered to MPR 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 MPR 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 MPR 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

MPR 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. MPR 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

MPR's plan for data quality is found in the 2006 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 2006 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, MPR 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 H06016 about getting advice or help over the phone from his/her doctor's office or clinic, but goes on to answer how often he/she received help or advice, then we assume that the answer to H06016 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

MPR 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, MPR 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. MPR 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 2006 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

Value	Questionnaire Return Disposition	Reason/Explanation Given	Eligibility
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, 27 key questions were chosen. The key survey variables are: H06006, H06008, H06009, H06010, H06011, H06012, H06014, H06015, H06016, H06017, H06018, H06019, H06021, H06024, H06025, H06027, H06030, H06037, H06038, H06042, H06044, H06046, H06048, H06066, SREDA, H06070, and the race indicator (any response to SRRACEA-SRRACEE). If thirteen or more of these key items are completed, then the questionnaire can be counted as complete.

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 STI 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 2333 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 questionnaire as being ineligible.

Only beneficiaries with FNSTATUS = 11 were retained. All other records were dropped. In Quarters I-IV, we retained 57,611 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 2006. 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) are used to classify beneficiaries into lead agents regions. These regions corresponded to the administrative organization of TRICARE before the reorganization into TNEX regions 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. Continental United States (CONUS)

XREGION is used to classify beneficiaries either in the continental United States (CONUS) or overseas (OCONUS).

CONUS stands for Continental United States but it includes both Alaska and Hawaii.

```

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

```

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.

```

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)

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_2005\Programs\Sampling\AssignCOM_GEO.inc"; (refer to Appendix F.18)
  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;
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.

```

/** Note 18 - gender H06058, SEX, H06059--H06065,
    XSEXA */

ARRAY fmaleval H06059 H06060 H06061 H06063 H06064 H06065
    ;

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 H06058=. THEN DO;
  IF (SEX='F' AND FMALE) THEN DO;
    N18a=1;
    XSEXA=2;
  END;
  ELSE IF (SEX='F' AND FMALE=0) THEN DO;
    N18a=2;
    XSEXA=2;
  END;
  ELSE IF (SEX='M' AND FMALE) THEN DO;
    N18a=3;
    XSEXA=1;
  END;
  ELSE IF (SEX='M' AND FMALE=0) THEN DO;
    N18a=4;
    XSEXA=1;
  END;
  ELSE IF ((SEX IN ('Z','') AND FMALE)) THEN DO;
    N18a=5;
    XSEXA=2;
  END;
  ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
    N18a=6;
    XSEXA=.;
  END;
  ELSE IF (SEX='' AND FMALE=0) THEN DO;
    N18a=7;
    XSEXA=.;
  END;
END;
ELSE IF (H06058=1) THEN DO;
  IF FMALE=0 THEN DO;
    N18a=8;
    XSEXA=1;
  END;
  ELSE IF FMALE THEN DO;

```

```

IF SEX='F' THEN DO;
  N18a=9;
  XSEXA=2;
END;
ELSE DO;
  N18a=10;
  XSEXA=1;
END;
END;
ELSE IF (H06058=2) THEN DO;
  IF FMALE THEN DO;
    N18a=11;
    XSEXA=2;
  END;
  ELSE IF FMALE=0 THEN DO;
    IF SEX='M' THEN DO;
      N18a=12;
      XSEXA=1;
    END;
    ELSE DO;
      N18a=13;
      XSEXA=2;
    END;
  END;
END;
END;

```

h. Beneficiary Group (XBNFGRP)

We redefined beneficiary groups to exclude active duty personnel and 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;

```

i. Service Affiliation (XSERVAFF)

We redefined service affiliation to collapse coast guard, administrative, support contractor, USTF, noncatchment, other, not available, Missing/unknown service affiliations. 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 18 <= FIELDAGE < 65 THEN DO;
  IF ENBGSMPL = 1 THEN XENRLLMT = 1;          /* Active duty (<65) */
  ELSE IF ENBGSMPL IN (2, 3, 5, 6) THEN XENRLLMT = 2; /* Non-active duty enrolled (<65)*/
  ELSE IF ENBGSMPL IN (4, 7) THEN XENRLLMT = 3;    /* Not Enrolled (<65)*/
END;
ELSE IF FIELDAGE >= 65 THEN DO;
  IF ENBGSMPL = 10 THEN XENRLLMT = 4;          /* Not Enrolled (65+)*/
  IF ENBGSMPL 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 'other enrollees' 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 six 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 18 <= 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) 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 */
 IF ENBGSMPL = 8 THEN XENR_PCM = 7; /* Enrolled (65+)-civ PCM */ /*NJ_Q2*/

END;

c. Most–Used Health Plan (XINS_COV)

The respondent's most–used health plan comes directly from Question 6 (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)
- . = Unknown

IF XENRLLMT = 1 THEN XINS_COV = 1; /* Prime <65-Active Duty */
 ELSE IF 18 <= INPUT(FIELDAGE,8.) < 65 AND H06006 IN (1)
 THEN XINS_COV = 2; /* Prime <65-Non-active Duty */
 ELSE IF H06006 = 3 THEN XINS_COV = 3; /* Standard/Extra */
 ELSE IF H06006 = 11 THEN XINS_COV = 7; /* Plus and Medicare */
 ELSE IF H06006 = 4 THEN XINS_COV = 4; /* Medicare*/
 ELSE IF H06006 IN (5,6, 7, 8, 9) THEN XINS_COV = 5; /* Other civilian health insurance*/
 ELSE IF H06006 = 10 THEN XINS_COV = 8; /* Veterans Administration (VA) */
 ELSE IF (INPUT(FIELDAGE,8.)>= 65 AND XENRLLMT = 5 and H06006 = 1)
 THEN XINS_COV = 6; /* Prime, >= 65 */
 ELSE IF H06003=1 AND H06004=1 AND H06006 NE .N
 THEN XINS_COV = 4;

d. Types of Coverage (KCIVINS)

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

- Is the respondent covered by civilian insurance (KCIVINS)

This variable has the following values:

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

IF H06002G=1 OR H06002I=1 OR H06002J=1 THEN KCIVINS=1; /* YES */
 ELSE KCIVINS=2; /* NO */

3. Access to Care (KMILOFFC, KCIVOFFC, KBGPRB1, KBGPRB2)

Some of the survey questions on access relate to a TRICARE performance standard. For these questions, we constructed binary variables, separately for beneficiaries using military and civilian facilities, to approximate the TRICARE standard. Table 2.5 presents those standards that were analyzed in the reports. The new variables have the following values:

- 1 = Standard was met
- 2 = Standard was not met
- . = Missing response

TABLE 2.5

TRICARE STANDARDS FOR ACCESS

Access Measure	TRICARE Standard	Variable Name	Relevant Question
Waiting Room Wait	Within 15 minutes	KMILOFFC, KCIVOFFC	H06030

```

/* KMILOFFC—OFFICE WAIT OF MORE THAN 15 MINUTES AT MILITARY FACILITES
   KCIVOFFC—OFFICE WAIT OF MORE THAN 15 MINUTES AT CIVILIAN FACILITES */
IF H06038 = 1 THEN DO;           /* Military */
  IF H06030 IN (1,2) THEN KMILOFFC = 1;   /* Yes */
  ELSE IF H06030 IN (3,4) THEN KMILOFFC = 2; /* No */
END;
ELSE IF H06038 IN (2, 3, 4) THEN DO;     /* Civilian */
  IF H06030 IN (1,2) THEN KCIVOFFC = 1;   /* Yes */
  ELSE IF H06030 IN (3,4) THEN KCIVOFFC = 2; /* No */
END;

```

H06013 asks how much of a problem, if any, it was to get a referral to a specialist. The responses to this question are regrouped by a binary variable KBGPRB1. KBGPRB1 looks at these two categories:

- 1 = Those who reported a “big problem”
- 2 = Those who reported not a “big problem”
- . = Missing response

```

/* KBGPRB1—BIG PROBLEM GETTING REFERRALS TO SPECIALISTS */
IF H06013 = 1 THEN KBGPRB1 = 1;           /* YES */
ELSE IF H06013 IN (2,3) THEN KBGPRB1 = 2; /* NO */

```

Similarly, variable KBGPRB2 was constructed. H06027 asks about how much of a problem, if any, it was to get the care you or a doctor believed necessary. The responses to this question are regrouped by a binary variable KBGPRB2. KBGPRB2 looks at these two categories:

- 1 = Those who reported a “big problem”
- 2 = Those who reported not a “big problem”
- . = Missing response

```

/* KBGPRB2—BIG PROBLEM GETTING NECESSARY CARE */
IF H06027 = 1 THEN KBGPRB2 = 1;           /* YES */
ELSE IF H06027 IN (2,3) THEN KBGPRB2 = 2; /* NO */

```

4. Preventive Care (HP_PRNTL, HP_MAMOG, HP_MAM50, HP_PAP, HP_BP, HP_FLU, HP_SMOKE, HP_SMOKH, HP_CESH, HP_OBESE, XBMI, XBMICAT)

As in some of the access analyses, preventive care analyses incorporated 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. The new 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	H06049 & H06050	HP_BP	Number with care in the past 24 months and know the results	Adults	95% within past 2 years
Flu Shot	H06051	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	H06059	HP_PAP	Number with care in the past 36 months	Adult females	90% in the past 36 months
Mammography	H06061	HP_MAMOG	Number with care in the past 24 months	Females age 40 and over	70% in the past 24 months
Mammography	H06061	HP_MAM50	Number with care in the past 24 months	Females age 50 and over	70% in the past 24 months
Smoker	H06052, H06053 & H06054	HP_SMOKH	Number that smoked in the past 12 months	Adults	12% in the last 12 months
Smoking Cessation	H06052, H06053, H06054, & H06055	HP_CESH	Number that smoked in the past 12 months	All current adult smokers and those who quit smoking within the past year	None
Prenatal Care	H06065	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	H06068F, H06068I & H06069	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 H06063 IN (1,2) THEN DO;
    IF H06065 = 4 THEN HP_PRNTL = 1;
    ELSE IF (H06064 = 1 AND H06065 = 1) THEN HP_PRNTL = .; /* <3 months pregnant now */
    ELSE IF H06065 IN (1,2,3) THEN HP_PRNTL = 2;
END;
    
```



```

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;

IF XSEXA = 2 THEN DO;
  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;
END;
ELSE DO;
  IF XBMI = . THEN XBMICAT=.;
  ELSE IF XBMI < 19.5 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;
END;

/*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;

```

5. Utilization

a. Outpatient Utilization (KMILOPQY, KCIVOPQY)

H06025 contains the total outpatient visits. This is called KMILOPQY for those receiving care at military facilities; we adjust KMILOPQY to reflect zero visits for those with no care or those who get their care from civilian facilities. KCIVOPQY is the comparable variable for those who receive care at civilian facilities.

```

/* KMILOPQY—OUTPATIENT VISITS TO MILITARY FACILITY
  KCIVOPQY—OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF H06038 = 1 THEN DO;
  KMILOPQY=H06025;
  KCIVOPQY=1;
END;
ELSE IF H06038 IN (2, 3, 4) THEN DO;
  KCIVOPQY=H06025;
  KMILOPQY=1;
END;

```

```
ELSE IF H06038 = 5 THEN DO;  
  KMILOPQY=1;  
  KCIVOPQY=1;  
END;
```

E. WEIGHTING PROCEDURES

Quarterly and annual estimates based on the 2006 HCSDB must account for the survey's complex sample design and adjust for possible bias due to nonresponse. As part of sample selection, MPR 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, for 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 2006 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 2006 adult sample design, see Health Care Survey of DoD Beneficiaries: 2006 Adult Sampling Report (2005). 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 the stratum h stratum 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 2006 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 2006 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 2006 HCSDB weighting was implemented 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 2006 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 STI 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 $d = 4$ 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:

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

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 c from the previous step 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 $d = 3$ adjustment factor is 1, or $A_{wc2}(c, 3) = 1$. 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 $W_{wc2}(c, 3, i) = W_{wc1}(c, 3, i)$.

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.² 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 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.

² 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.

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) and included as response predictors an indicator variable for each TNEX region. Besides TNEX 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 (TNEX region, age, beneficiary group, PCM, personnel category, rank, sex, service, and an indicator for 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.

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.

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.

Lastly, 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 .

5. Calculation of Combined Annual Weights

Lastly, we constructed a dataset combining the four consecutive quarterly data files. Because there were a total of 2,167 late respondents who were not included in the Quarters I–III 2006 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 weights as follows in order to develop a combined annual weight:

$$(13) \quad WCOM = q_i \times WQ_i$$

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 (13).

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 Jackknife Replicates

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. Software for replication methods requires either replicate weights or sample design information, including the sampling weight and stratification information. WesVarPC® (Brick et al. 1996) is a publicly available statistical package that allows for the use of replication methods to produce variance estimates. WesVarPC allows jackknife variance estimation for two primary sampling units per stratum for up to 100 strata, or up to 256 replicates without stratification. However, the sample design for the 2006 HCSDB involves 452 strata for Quarter I and Quarter II, 450 strata for Quarter III, and 449 strata for Quarter IV. To use WesVarPC, we modified the design to create fewer strata. The two options for doing this are to (1) form fewer than 256 replicates by ignoring stratification, or (2) form replicates by collapsing strata to fewer than 100 and by assigning each unit to one of two pseudo primary sampling units (PSUs). For either option, the entire weighting process as described in the previous sections must be applied for each jackknife replicate.

We use option 1 to construct the quarterly jackknife replicates 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, the same number of different jackknife replicates as subsamples is defined. The entire weighting process 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. 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.

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 2006 HCSDB were calculated in the same way as they were calculated in 2005. The procedure is based on the guidelines established by the Council of American Survey Research Organizations (CASRO 1982) in 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 2006 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 and G1-2), Group 2, Group 3 (G3-1 and G3-2), and Group 4 (G4-1 and G4-2):

- 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 STI 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 size³ (\hat{N}_i for Group i , where $i=1,2,3,4$) for the four main response categories.

³ 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.

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 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 response rates for the 2006 HCSDDB for Quarters I-IV. It also contains response rates by beneficiary groups, and by enrollment status.

- Overall: The overall unweighted response rate for the combined 2006 Adult HCSDDB was 29.3 percent (which is found in Table 3.1 in the row of "Overall"). This rate is smaller than 32 percent rate achieved in the combined 2005 Adult HCSDDB.
- Beneficiary group and enrollment status: All response rates calculated by beneficiary group and enrollment status show similar patterns to the 2005 survey, i.e., active duty beneficiaries had the lowest response rates and beneficiaries 65 years and older had the highest rate.⁴
- 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, 2006

	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR (%)	RR _w (%)	RR (%)	RR _w (%)	RR (%)	RR _w (%)	RR (%)	RR _w (%)	RR (%)	RR _w (%)
Overall	30.6	45.9	31.7	46.6	28.7	44.1	26.1	41.7	29.3	44.5
Active duty	18.9	17.7	19.8	18.8	17.2	16.4	14.1	13.5	17.5	16.6
Active duty family, enrollee	29.6	29.3	30.4	30.4	27.4	27.2	24.0	23.7	27.9	27.7
Active duty family, non-enrollee	21.3	22.8	20.5	20.6	20.3	20.8	18.6	19.4	20.2	20.9
Retired, <65, enrollee	54.1	54.7	56.4	56.7	52.0	53.8	50.0	51.0	53.1	54.0
Retired, <65, non-enrollee	44.5	49.5	45.3	48.7	41.8	46.3	41.7	45.9	43.4	47.6
Retired, 65+	73.8	76.3	75.8	76.7	71.8	73.9	69.4	70.5	72.7	74.3

RR = Unweighted
RR_w = Weighted

For domains of special interest, Appendix D contains tables showing unweighted and weighted response rates for Quarters I-IV, 2006. We summarize unweighted results about response rates for selected domains as follows:

- Regions: Combined response rates across regions range from 20.3 percent for Overseas to 31.3 percent for South (Table D.8).
- Sex: Combined response rate for men is 25.5 percent as compared to 34.7 percent for women. (Table D.2).
- Conus: Combined response rate for CONUS is 30.7 percent as compared to 20.3 percent for OCONUS. (Table D.3).
- Catchment areas: Combined response rates across catchment areas range from 14.3 percent for Seoul to 42.6 percent for Ft. Belvoir. (Table D.5).
- Beneficiary groups by sex: Women respond at a higher rate than men for both active duty and active duty family members, 20.2 percent versus 17.0 percent and 27.3 percent versus 15.6

⁴ 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.

percent, respectively. The opposite pattern emerges for retirees, survivors and family members 65 and older. The response rates for retirees less than 65 is 50.2 for men vs 46.9 for women. (Table D.10).

- Beneficiary group by service affiliation (Army, Navy, Air Force, Marine Corps, Coast Guard): Among service affiliations, the smallest combined response rate comes from active duty in the Marine Corps with 11.5 percent and the largest from beneficiaries over 65 from the Coast Guard with 78.4 percent (Table D.11).

B. VARIANCE ESTIMATION

Due to the complex sample design, variance estimation for the 2006 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), 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 2006 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 2006 HCSDB.

1. Taylor Series Linearization

MPR uses Taylor series linearization to produce standard errors for the estimates from the 2006 HCSDB. For most sample designs, including the 2006 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:

$$Y_{ijkl} = \beta_{1l}A_{1l} + \beta_{2l}A_{2l} + \dots + \beta_{7l}A_{7l} + \beta_{8l}P_l + \varepsilon_{ijkl},$$

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, A_6 = age 65-74, and A_7 = age 75 and older), 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:

$$\bar{y}_i = \hat{\delta}_0 + \hat{\delta}_i + \hat{\beta}_1 \hat{A}_1 + \hat{\beta}_2 \hat{A}_2 + \dots + \hat{\beta}_7 \hat{A}_7 + \hat{\beta}_8 \hat{P},$$

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:

$$\bar{y}_{il} = \hat{\delta}_{0l} + \hat{\delta}_{il} + \hat{\beta}_{1l} \hat{A}_1 + \hat{\beta}_{2l} \hat{A}_{2l} + \dots + \hat{\beta}_{7l} \hat{A}_{7l} + \hat{\beta}_{8l} \hat{P}_l,$$

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

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

$$\bar{y}_{ijl} = \hat{\gamma}_{0l} + \hat{\gamma}_{ijl} + \hat{\beta}_{1l} \hat{A}_{1l} + \hat{\beta}_{2l} \hat{A}_{2l} + \dots + \hat{\beta}_{7l} \hat{A}_{7l} + \hat{\beta}_{8l} \hat{P}_l,$$

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

$$y = \alpha + \beta_1 A_1 + \beta_2 A_2 + \dots + \beta_7 A_7 + \beta_8 P$$

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

$$\hat{y}_l = \hat{\alpha} + \hat{\beta}_1 \bar{A}_{1l} + \hat{\beta}_2 \bar{A}_{2l} + \dots + \hat{\beta}_7 \bar{A}_{7l} + \hat{\beta}_8 \bar{P}_l$$

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. TRANSITION FROM CAHPS 2.0 TO 3.0

1. Background

From 1998 to 2003, the HCSDB included questions from CAHPS 2.0. In 2003, CAHPS 3.0 was introduced. That version of CAHPS included changes to the wording of a number of questions. Because decision makers in TRICARE and Health Affairs monitor scores based on CAHPS questions to track TRICARE performance over time, we needed a strategy for comparing scores before and after the transition.

The strategy we adopted was to delay introduction of CAHPS 3.0 into the HCSDB until when benchmarks based on the new questions would be available. Assuming that the changes in question wording resulted in similar changes in the benchmark data and in the HCSDB, we could track CAHPS scores over time by comparing them to the changing benchmark. The adjusted change in the TRICARE CAHPS score would be equal to the change in the TRICARE score minus the change in the benchmark score.

In 2006 reports, only one quarter of data from CY 2003 and CAHPS 2.0 was included. To account for the presence of this one quarter, we used a weighted average of CAHPS 2.0 and CAHPS 3.0 responses from both the HCSDB survey responses and the benchmark data where the weights were the weighted number of respondents from Quarter IV 2003 and the weighted number of respondents from Quarters I-III of 2004.

H. 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, MPR produced charts and tables that are found in the reports described below. Beginning with the HCSDB in a SAS format, MPR 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.

I. REPORTS

This section lists the three types of reports produced and states the main purpose of each report: 2006 TRICARE Beneficiary Reports, the TRICARE Consumer Watch, and the Health Care Survey of DoD Beneficiaries: Annual Report. The 2006 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.

1. 2006 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. 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 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, and 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 2006 HCSDDB 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 HCSDDB 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.

b. 2006 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, 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 I.

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 2006⁵ and previous years.

b. Procedures for Report Production

1. Content

The report contains ten chapters and an executive summary:

- Beneficiaries' Choices of Health Plan Introduction
- Experience with Health Plan
- Experience with Health Care
- Variations by Race and Ethnicity
- Access to Care through Non-TRICARE Providers
- Access and Use of Care by Active Duty
- Childhood Obesity
- Behavioral Health Care
- Issue Briefs

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

⁵ For further detail on the 2006 child HCSDB, refer to "the 2006 Health Care Survey of DoD Beneficiaries: Child Codebook and User's Guide" and "The 2006 Health Care Survey of DoD Beneficiaries: Child Technical Manual."

(NCBD). 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.

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APPENDIX A

ANNOTATED QUESTIONNAIRE - QUARTER I

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Health Care Survey of DoD Beneficiaries



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YOUR PRIVACY

All information that would let someone identify you or your family will be kept private. Providing information in this questionnaire is voluntary. There is no penalty if you choose not to respond. You may notice a number on the last page of this survey. This number is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

According to the Privacy Act of 1974 (Public Law 93-579), 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., Chapter 55; Section 706, Public Law 102-484; E.O. 9397.

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: 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.

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 you have misplaced the envelope, our address is:

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

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 addressed in the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to the person named in the cover letter.

1. Are you the person whose name appears on the mailing label of this envelope?

- Yes → Go to Question 2
- No → Please give this questionnaire to the person addressed on the envelope.

2. By which of the following health plans are you currently covered? **MARK ALL THAT APPLY.**

Military Health Plans

- TRICARE Prime
- TRICARE Extra or Standard (CHAMPUS)
- TRICARE Plus
- TRICARE for Life
- TRICARE Supplemental Insurance

Other Health Plans

- Medicare
- Federal Employees Health Benefit Program (FEHBP)
- Medicaid
- A civilian HMO (such as Kaiser)
- Other civilian health insurance (such as Blue Cross)
- Uniformed Services Family Health Plan (USFHP)
- The Veterans Administration (VA)
- Not sure

3. **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.

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

4. **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.

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

5. **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.

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

6. **Which health plan did you use for all or most of your health care in the last 12 months? MARK ONLY ONE.**

- TRICARE Prime
- TRICARE Extra or Standard (CHAMPUS)
- TRICARE Plus
- Medicare
- Federal Employees Health Benefit Program (FEHBP)
- Medicaid
- A civilian HMO (such as Kaiser)
- Other civilian health insurance (such as Blue Cross)
- Uniformed Services Family Health Plan (USFHP)
- The Veterans Administration (VA)
- Not sure
- Did not use any health plan in the last 12 months → **Go to Question 8**

For the remainder of this questionnaire, the term health plan refers to the plan you indicated in Question 6.

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

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

YOUR PERSONAL DOCTOR OR NURSE

The next 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.

8. 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. Do you have one person you think of as your personal doctor or nurse?

- Yes
- No → Go to Question 11

9. 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
- I don't have a personal doctor or nurse.

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

- Yes → Go to Question 12
- No

11. 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?

- A big problem
- A small problem
- Not a problem

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits.

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

In the last 12 months, did you or a doctor think you needed to see a specialist?

- Yes
- No → Go to Question 14

13. 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
- I didn't need a specialist in the last 12 months.

14. In the last 12 months, did you see a specialist?

- Yes
- No → Go to Question 16

15. 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
- I didn't see a specialist in the last 12 months

CALLING DOCTORS' OFFICES

16. In the last 12 months, did you call a doctor's office or clinic during regular office hours to get help or advice for yourself?

- Yes
- No → Go to Question 18

17. In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed?

- Never
- Sometimes
- Usually
- Always
- I didn't call for help or advice during regular office hours in the last 12 months.

YOUR HEALTH CARE IN THE LAST 12 MONTHS

18. 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?

- Yes
- No → Go to Question 21

19. 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
- I didn't need care right away for an illness, injury or condition in the last 12 months.

20. 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?

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

21. A health provider could be a general doctor, a specialist doctor, a nurse practitioner, a physician assistant, a nurse, or anyone else you would see for health care.

In the last 12 months, not counting the times you needed health care right away, did you make any appointments with a doctor or other health provider for health care?

- Yes
- No → Go to Question 24

22. 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?

- Never
- Sometimes
- Usually
- Always
- I had no appointments in the last 12 months.

23. 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?

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

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

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

25. 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 care for yourself?

- None → Go to Question 38
- 1
- 2
- 3
- 4
- 5 to 9
- 10 or more

26. In the last 12 months, did you or a doctor believe you needed any care, tests, or treatment?

- Yes
- No → Go to Question 28

27. 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?

- A big problem
- A small problem
- Not a problem
- I had no visits in the last 12 months.

28. In the last 12 months, did you need approval from your health plan for any care, tests, or treatment?

- Yes
- No → Go to Question 30

29. 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?

- A big problem
- A small problem
- Not a problem
- I had no visits in the last 12 months.

30. In the last 12 months, how often were you taken to the exam room within 15 minutes of your appointment?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

31. In the last 12 months, how often did office staff at a doctor's office or clinic treat you with courtesy and respect?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

32. In the last 12 months, how often were office staff at a doctor's office or clinic as helpful as you thought they should be?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

33. In the last 12 months, how often did doctors or other health providers listen carefully to you?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

34. 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
- I had no visits in the last 12 months.

35. 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
- I had no visits in the last 12 months.

36. In the last 12 months, how often did doctors or other health providers spend enough time with you?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

37. 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
- I had no visits in the last 12 months.

38. In the last 12 months, where did you go most often for your health care? **MARK ONLY ONE ANSWER.**

- A military facility – This includes:
Military clinic
Military hospital
PRIMUS clinic
NAVCARE clinic
- A civilian facility – This includes:
Doctor's office
Clinic
Hospital
Civilian TRICARE contractor
- Uniformed Services Family Health Plan facility (USFHP)
- Veterans Affairs (VA) clinic or hospital
- I went to none of the listed types of facilities 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 6.

39. 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?

- Yes
- No → Go to Question 42
- Don't know → Go to Question 42

40. 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
- No claims were sent for me in the last 12 months.

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

- Never
- Sometimes
- Usually
- Always
- Don't know
- No claims were sent for me in the last 12 months.

42. In the last 12 months, did you look for any information about how your health plan works in written material or on the Internet?

- Yes
- No → Go to Question 44

43. In the last 12 months, how much of a problem, if any, was it to find or understand this information?

- A big problem
- A small problem
- Not a problem
- I didn't look for information from my health plan in the last 12 months.

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

- Yes
- No → Go to Question 46

45. 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
- I didn't call my health plan's customer service in the last 12 months.

46. In the last 12 months, did you have to fill out any paperwork for your health plan?

- Yes
- No → Go to Question 48

47. In the last 12 months, how much of a problem, if any, did you have with paperwork for your health plan?

- A big problem
- A small problem
- Not a problem
- I didn't have any experiences with paperwork for my health plan in the last 12 months.

48. 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

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.

49. 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)?

- Yes
- No → Go to Question 71

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

- Yes, I am a reservist who is currently on active duty for a contingency operation → Go to Question 51
- Yes, I am a reservist who has been on active duty for a contingency operation but was deactivated in the past 12 months → Go to Question 51
- No, I am a reservist but I have not been on active duty for a contingency operation in the past 12 months → Go to Question 54
- No, I am not a reservist → Go to Question 54

51. For which operation were you most recently activated in support of contingency operations?

- Operation Noble Eagle, Operation Enduring Freedom, or Operation Iraqi Freedom
- Bosnia
- Kosovo
- Another contingency Operation

52. When were you activated for this contingency operation?

- Less than 6 months ago
- At least 6 months ago but less than 12 months ago
- Twelve months ago or more

53. How long did the initial activation orders state that this activation would last?

- Less than 6 months
- At least 6 months but less than 12 months
- Twelve months or more

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

- Yes, my spouse or parent is a reservist currently on active duty for a contingency operation → Go to Question 55
- Yes, my reservist spouse or parent had been on active duty for a contingency operation but was deactivated within the past 12 months → Go to Question 55
- No, my spouse or parent is a reservist but has not been on active duty for a contingency operation within the past 12 months → Go to Question 58
- No, my spouse or parent is not a reservist → Go to Question 58

55. For which contingency operation was your reservist spouse or parent activated most recently?

- Operation Noble Eagle, Operation Enduring Freedom, or Operation Iraqi Freedom
- Bosnia
- Kosovo
- Another contingency Operation

56. When was your reservist spouse or parent first activated for this operation?

- Less than 6 months ago
- At least 6 months ago but less than 12 months ago
- Twelve months ago or more
- Don't know

57. How long did the initial activation orders state that this contingency activation would last?

- Less than 6 months
- At least 6 months but less than 12 months
- Twelve months or more
- Don't know

58. Before becoming eligible for TRICARE, were you covered by civilian health insurance?

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

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

- I use only TRICARE → Go to Question 62
- I use both TRICARE and civilian coverage → Go to Question 61
- I use only civilian coverage → Go to Question 60
- Don't know → Go to Question 61

60. Why don't you use TRICARE? MARK ALL THAT APPLY.

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

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

- Yes, we pay all
- Yes, we pay part
- No, we pay nothing
- Don't know

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

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

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

- Yes
- No → Go to Question 65
- I do not have a personal doctor → Go to Question 66

64. Does your personal doctor accept TRICARE?

- Yes
- No
- Don't know
- I do not have a personal doctor

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

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

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

- It is now more difficult
- It is now less difficult
- It is about the same
- I have not needed to see any specialists

67. Were you or a reservist in your immediate family deactivated after November 6, 2003?

- Yes
- No → Go to Question 70
- Don't know → Go to Question 70

68. Either as a reservist or a family member of a reservist, were you eligible for TRICARE coverage for any period of time immediately before the reservist reported to active duty?

- Yes
- No → Go to Question 70
- Don't know → Go to Question 70

69. How long were you eligible for this coverage?

Directions: Write the number of days in the shaded blank boxes. Check the box next to the matching number.

Example:

Eligibility		
Days		
	9	5
	<input type="checkbox"/> 0	<input type="checkbox"/> 0
	<input type="checkbox"/> 1	<input type="checkbox"/> 1
	<input type="checkbox"/> 2	<input type="checkbox"/> 2
	<input type="checkbox"/> 3	<input type="checkbox"/> 3
	<input type="checkbox"/> 4	<input type="checkbox"/> 4
	<input type="checkbox"/> 5	<input checked="" 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 checked="" type="checkbox"/> 9	<input type="checkbox"/> 9

Eligibility		
Days		
	<input type="checkbox"/> 0	<input type="checkbox"/> 0
	<input type="checkbox"/> 1	<input type="checkbox"/> 1
	<input type="checkbox"/> 2	<input type="checkbox"/> 2
	<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

Don't know

70. Were you eligible for TRICARE coverage for any period of time after you or a reservist in your immediate family deactivated?

- Yes
- No
- Don't know

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 a cholesterol screening are examples of preventive care.

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

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

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

- Yes, it is too high
- No, it is not too high
- Don't know

73. When did you last have a flu shot?

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

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

- Yes
- No → Go to Question 80
- Don't know → Go to Question 80

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

- Every day → Go to Question 77
- Some days → Go to Question 77
- Not at all → Go to Question 76
- Don't know → Go to Question 80

76. How long has it been since you quit smoking cigarettes?

- Less than 12 months → Go to Question 77
- 12 months or more → Go to Question 80
- Don't know → Go to Question 80

77. 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?

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

78. 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)?

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

79. 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?

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

80. Are you male or female?

- Male → Go to Question 87
- Female → Go to Question 81

81. 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 test

82. Are you under age 40?

- Yes → Go to Question 84
- No

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

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

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

- Yes, I am currently pregnant → Go to Question 85
- No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 86
- No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 87

85. In what trimester is your pregnancy?

- First trimester (up to 12 weeks after 1st day of last period) → Go to Question 87
- Second trimester (13th through 27th week)
- Third trimester (28th week until delivery)

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

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

ABOUT YOU

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

- Excellent
- Very good
- Good
- Fair
- Poor

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

- Yes
- No

For questions 89 and 90, please write your response on the lines provided, then check the matching box below each column. For example in question 89 if you are five feet and six inches tall, you would put a "5" on the first line and a "6" on the second line, and then check the box next to the "5" in the first column and check the box next to the "6" in the second column. For example:

 5 Feet 6 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 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 |

89. How tall are you without your shoes on? Please give your answer in feet and inches.

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

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

90. How much do you weigh without your shoes on? Please give your answer in pounds.

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

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

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

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

92. Are you of Hispanic or Latino origin or descent? (Mark "NO" if not Spanish/Hispanic/Latino.)

- No, not Spanish, Hispanic, or Latino
- Yes, Mexican, Mexican American, Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, other Spanish, Hispanic, or Latino

93. What is your race? (Mark ONE OR MORE races to indicate what you consider yourself to be.)

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

94. What is your age now?

- 18 to 24
- 25 to 34
- 35 to 44
- 45 to 54
- 55 to 64
- 65 to 74
- 75 or older

If you have any suggestions or comments that you would like to add, please neatly print your comments in question 95 on the lines provided.

95. SUGGESTIONS AND COMMENTS:

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:

Synovate
PO Box 5030
Chicago, IL 60680-4138

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APPENDIX A

ANNOTATED QUESTIONNAIRE - QUARTER II

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Health Care Survey of DoD Beneficiaries



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YOUR PRIVACY

All information that would let someone identify you or your family will be kept private. Providing information in this questionnaire is voluntary. There is no penalty if you choose not to respond. You may notice a number on the last page of this survey. This number is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

According to the Privacy Act of 1974 (Public Law 93-579), 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., Chapter 55; Section 706, Public Law 102-484; E.O. 9397.

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: 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.

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 you have misplaced the envelope, our address is:

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

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 addressed in the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to the person named in the cover letter.

1. Are you the person whose name appears on the mailing label of this envelope?

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

2. By which of the following health plans are you currently covered? MARK ALL THAT APPLY.

Military Health Plans

- TRICARE Prime
- TRICARE Extra or Standard (CHAMPUS)
- TRICARE Plus
- TRICARE for Life
- TRICARE Supplemental Insurance

Other Health Plans

- Medicare
- Federal Employees Health Benefit Program (FEHBP)
- Medicaid
- A civilian HMO (such as Kaiser)
- Other civilian health insurance (such as Blue Cross)
- Uniformed Services Family Health Plan (USFHP)
- The Veterans Administration (VA)
- Not sure

3. 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.

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

4. 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.

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

5. 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.

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

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

- TRICARE Prime
- TRICARE Extra or Standard (CHAMPUS)
- TRICARE Plus
- Medicare (may include TRICARE for Life)
- Federal Employees Health Benefit Program (FEHBP)
- Medicaid
- A civilian HMO (such as Kaiser)
- Other civilian health insurance (such as Blue Cross)
- Uniformed Services Family Health Plan (USFHP)
- The Veterans Administration (VA)
- Not sure
- Did not use any health plan in the last 12 months → **Go to Question 8**

For the remainder of this questionnaire, the term health plan refers to the plan you indicated in Question 6.

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

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

YOUR PERSONAL DOCTOR OR NURSE

The next 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.

8. 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. Do you have one person you think of as your personal doctor or nurse?

- Yes
- No → Go to Question 11

9. 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
- I don't have a personal doctor or nurse.

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

- Yes → Go to Question 12
- No

11. 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?

- A big problem
- A small problem
- Not a problem

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits.

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

In the last 12 months, did you or a doctor think you needed to see a specialist?

- Yes
- No → Go to Question 14

13. 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
- I didn't need a specialist in the last 12 months.

14. In the last 12 months, did you see a specialist?

- Yes
- No → Go to Question 16

15. 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
- I didn't see a specialist in the last 12 months

CALLING DOCTORS' OFFICES

16. In the last 12 months, did you call a doctor's office or clinic during regular office hours to get help or advice for yourself?

- Yes
- No → Go to Question 18

17. In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed?

- Never
- Sometimes
- Usually
- Always
- I didn't call for help or advice during regular office hours in the last 12 months.

YOUR HEALTH CARE IN THE LAST 12 MONTHS

18. 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?

- Yes
- No → Go to Question 21

19. 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
- I didn't need care right away for an illness, injury or condition in the last 12 months.

20. 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?

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

21. A health provider could be a general doctor, a specialist doctor, a nurse practitioner, a physician assistant, a nurse, or anyone else you would see for health care.

In the last 12 months, not counting the times you needed health care right away, did you make any appointments with a doctor or other health provider for health care?

- Yes
- No → Go to Question 24

22. 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?

- Never
- Sometimes
- Usually
- Always
- I had no appointments in the last 12 months.

23. 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?

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

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

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

25. 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 care for yourself?

- None → Go to Question 38
- 1
- 2
- 3
- 4
- 5 to 9
- 10 or more

26. In the last 12 months, did you or a doctor believe you needed any care, tests, or treatment?

- Yes
- No → Go to Question 28

27. 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?

- A big problem
- A small problem
- Not a problem
- I had no visits in the last 12 months.

28. In the last 12 months, did you need approval from your health plan for any care, tests, or treatment?

- Yes
- No → Go to Question 30

29. 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?

- A big problem
- A small problem
- Not a problem
- I had no visits in the last 12 months.

30. In the last 12 months, how often were you taken to the exam room within 15 minutes of your appointment?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

31. In the last 12 months, how often did office staff at a doctor's office or clinic treat you with courtesy and respect?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

32. In the last 12 months, how often were office staff at a doctor's office or clinic as helpful as you thought they should be?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

33. In the last 12 months, how often did doctors or other health providers listen carefully to you?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

34. 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
- I had no visits in the last 12 months.

35. 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
- I had no visits in the last 12 months.

36. In the last 12 months, how often did doctors or other health providers spend enough time with you?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

37. 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
- I had no visits in the last 12 months.

38. In the last 12 months, where did you go most often for your health care? **MARK ONLY ONE ANSWER.**

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

CIVILIAN PROVIDERS

The following questions ask about your experiences with the TRICARE civilian provider network. TRICARE, including TRICARE Prime and Extra, is the health care 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 a civilian network. The TRICARE civilian provider network is made up of the doctors, clinics, hospitals and other health care providers who are part of DoD's preferred provider pool. The next seven questions refer to health services you received from the civilian network.

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

- All of my health care
- Most of my health care
- Some of my health care
- None of my health care
- I did not need health care in the last 12 months → **Go to Question 55**

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

- A big problem
- A small problem
- Not a problem
- I did not try to get health care from the civilian network.

41. 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.

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

- A big problem
- A small problem
- Not a problem → **Go to Question 43**
- I did not try to find a personal doctor from the civilian network → **Go to Question 43**

42. What problems did you encounter in finding a personal doctor from the civilian network? **MARK ALL THAT APPLY.**

- Travel distance too long
- Communicating with doctor(s)
- Doctor(s) not taking new patients
- Could not find the specialty I wanted
- Did not like doctor(s)
- Wait for an appointment was too long
- Could not find information about doctors
- Other _____

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

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

- A big problem
- A small problem
- Not a problem → **Go to Question 45**
- I did not try to find a specialist in the civilian network → **Go to Question 45**

44. What problems did you encounter in finding a network specialist? **MARK ALL THAT APPLY.**

- Travel distance too long
- Communicating with doctor(s)
- Doctor(s) not taking new patients
- Did not like doctor(s)
- Wait for an appointment was too long
- Could not find information about doctors
- Other _____

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

- Yes
- No
- I did not want to see any network doctors

The following questions ask about your experiences with civilian providers that are not part of TRICARE's network. Under TRICARE Standard, TRICARE pays part of the cost when you see civilian doctors that are not preferred providers.

46. In the last 12 months, have you tried to make an appointment with a civilian doctor who is not part of TRICARE's civilian network?

- Yes
- No → **Go to Question 55**
- Don't know

47. 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?

- Yes, not seeing TRICARE patients
- Yes, not seeing new TRICARE patients
- No

48. In the last 12 months, how much of a problem has it been to find doctors who will accept TRICARE?

- A big problem
- A small problem
- Not a problem

49. 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.

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

- A big problem
- A small problem
- Not a problem → Go to Question 51
- I did not try to find a civilian personal doctor → Go to Question 51

50. What problems did you encounter in finding a personal doctor who would accept TRICARE? MARK ALL THAT APPLY.

- Travel distance too long
- Communicating with doctor(s)
- Doctor(s) would not accept TRICARE fee schedule
- Could not find the specialty I wanted
- Did not like doctor(s)
- Wait for an appointment was too long
- Could not find information about doctors
- Other _____

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

In the last 12 months, have you tried to make an appointment with a civilian specialist who is not part of TRICARE's network?

- Yes
- No → Go to Question 55
- Don't know → Go to Question 55

52. What was the specialty of the last non-network civilian specialist you tried to see?

- Surgeon
- Dermatologist
- Psychiatrist or psychologist
- Urologist
- Orthopedist
- Ear, nose and throat
- Cardiologist
- Allergist
- Obstetrician
- Other _____

53. In the last 12 months, how much of a problem was it to get an appointment with the specialist in Question 52?

- A big problem
- A small problem
- Not a problem → Go to Question 55

54. What problems did you encounter in finding this specialist? **MARK ALL THAT APPLY.**

- Travel distance too long
- Communicating with doctor(s)
- Doctor(s) would not accept TRICARE fee schedule
- Did not like doctor(s)
- Wait for an appointment was too long
- Could not find information about doctors
- Other _____

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 6.

55. 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?

- Yes
- No → **Go to Question 58**
- Don't know → **Go to Question 58**

56. 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
- No claims were sent for me in the last 12 months.

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

- Never
- Sometimes
- Usually
- Always
- Don't know
- No claims were sent for me in the last 12 months.

58. In the last 12 months, did you look for any information about how your health plan works in written material or on the Internet?

- Yes
- No → **Go to Question 60**

59. In the last 12 months, how much of a problem, if any, was it to find or understand this information?

- A big problem
- A small problem
- Not a problem
- I didn't look for information from my health plan in the last 12 months.

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

- Yes
- No → **Go to Question 62**

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.

61. 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
- I didn't call my health plan's customer service in the last 12 months.

62. In the last 12 months, did you have to fill out any paperwork for your health plan?

- Yes
- No → Go to Question 64

63. In the last 12 months, how much of a problem, if any, did you have with paperwork for your health plan?

- A big problem
- A small problem
- Not a problem
- I didn't have any experiences with paperwork for my health plan in the last 12 months.

64. 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

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

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

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

- Yes, it is too high
- No, it is not too high
- Don't know

67. 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?

- Yes
- No → Go to Question 69
- Don't know → Go to Question 69

68. How long has it been since you had your last blood stool test using a home kit?

- Less than 12 months ago
- At least one year but less than 2 years ago
- At least 2 years but less than 5 years ago
- 5 or more years ago
- Never had a blood stool test
- Don't know

69. 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?

- Yes
- No → Go to Question 72
- Don't know → Go to Question 72

70. 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?

- Less than 12 months ago
- At least one year but less than 2 years ago
- At least 2 years but less than 5 years ago
- 5 or more years ago
- Never had a sigmoidoscopy
- Don't know

71. 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?

- Less than 12 months ago
- At least one year but less than 2 years ago
- At least 2 years but less than 5 years ago
- At least 5 but less than 10 years ago
- 10 or more years ago
- Never had a colonoscopy
- Don't know

72. 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.

In the last 12 months, did your personal doctor or nurse talk to you about colon cancer, or colon cancer screening tests, which may include blood stool testing, sigmoidoscopy or colonoscopy?

- Yes
- No
- I do not have a personal doctor or nurse

73. When did you last have a flu shot?

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

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

- Yes
- No → Go to Question 80
- Don't know → Go to Question 80

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

- Every day → Go to Question 77
- Some days → Go to Question 77
- Not at all → Go to Question 76
- Don't know → Go to Question 80

76. How long has it been since you quit smoking cigarettes?

- Less than 12 months → Go to Question 77
- 12 months or more → Go to Question 80
- Don't know → Go to Question 80

77. 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?

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

78. 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)?

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

79. 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?

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

80. Are you male or female?

- Male → Go to Question 87
- Female → Go to Question 81

81. 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 test

82. Are you under age 40?

- Yes → Go to Question 84
- No

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

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

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

- Yes, I am currently pregnant → Go to Question 85
- No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 86
- No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 87

85. In what trimester is your pregnancy?

- First trimester (up to 12 weeks after 1st day of last period) → **Go to Question 87**
- Second trimester (13th through 27th week)
- Third trimester (28th week until delivery)

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

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

ABOUT YOU

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

- Excellent
- Very good
- Good
- Fair
- Poor

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

- Yes
- No

89. How tall are you without your shoes on? Please give your answer in feet and inches.

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

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

90. How much do you weigh without your shoes on? Please give your answer in pounds.

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

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

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

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

92. Are you of Hispanic or Latino origin or descent? (Mark "NO" if not Spanish/Hispanic/Latino.)

- No, not Spanish, Hispanic, or Latino
- Yes, Mexican, Mexican American, Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, other Spanish, Hispanic, or Latino

93. What is your race? (Mark ONE OR MORE races to indicate what you consider yourself to be.)

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

94. What is your age now?

- 18 to 24
- 25 to 34
- 35 to 44
- 45 to 54
- 55 to 64
- 65 to 74
- 75 or older

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:

Synovate
PO Box 5030
Chicago, IL 60680-4138

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APPENDIX A

ANNOTATED QUESTIONNAIRE - QUARTER III

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Health Care Survey of DoD Beneficiaries



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YOUR PRIVACY

All information that would let someone identify you or your family will be kept private. Providing information in this questionnaire is voluntary. There is no penalty if you choose not to respond. You may notice a number on the last page of this survey. This number is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

According to the Privacy Act of 1974 (Public Law 93-579), 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., Chapter 55; Section 706, Public Law 102-484; E.O. 9397.

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: 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.

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 you have misplaced the envelope, our address is:

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

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 addressed in the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to the person named in the cover letter.

1. Are you the person whose name appears on the mailing label of this envelope?

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

2. By which of the following health plans are you currently covered? MARK ALL THAT APPLY.

Military Health Plans

- TRICARE Prime
- TRICARE Extra or Standard (CHAMPUS)
- TRICARE Plus
- TRICARE for Life
- TRICARE Supplemental Insurance

Other Health Plans

- Medicare
- Federal Employees Health Benefit Program (FEHBP)
- Medicaid
- A civilian HMO (such as Kaiser)
- Other civilian health insurance (such as Blue Cross)
- Uniformed Services Family Health Plan (USFHP)
- The Veterans Administration (VA)
- Not sure

3. 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.

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

4. 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.

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

5. 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.

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

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

- TRICARE Prime
- TRICARE Extra or Standard (CHAMPUS)
- TRICARE Plus
- Medicare (may include TRICARE for Life)
- Federal Employees Health Benefit Program (FEHBP)
- Medicaid
- A civilian HMO (such as Kaiser)
- Other civilian health insurance (such as Blue Cross)
- Uniformed Services Family Health Plan (USFHP)
- The Veterans Administration (VA)
- Not sure
- Did not use any health plan in the last 12 months → **Go to Question 8**

For the remainder of this questionnaire, the term health plan refers to the plan you indicated in Question 6.

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

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

YOUR PERSONAL DOCTOR OR NURSE

The next 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.

8. 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. Do you have one person you think of as your personal doctor or nurse?

- Yes
- No → Go to Question 11

9. 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
- I don't have a personal doctor or nurse.

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

- Yes → Go to Question 12
- No

11. 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?

- A big problem
- A small problem
- Not a problem

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits.

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

In the last 12 months, did you or a doctor think you needed to see a specialist?

- Yes
- No → Go to Question 14

13. 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
- I didn't need a specialist in the last 12 months.

14. In the last 12 months, did you see a specialist?

- Yes
- No → Go to Question 16

15. 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
- I didn't see a specialist in the last 12 months

CALLING DOCTORS' OFFICES

16. In the last 12 months, did you call a doctor's office or clinic during regular office hours to get help or advice for yourself?

- Yes
- No → Go to Question 18

17. In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed?

- Never
- Sometimes
- Usually
- Always
- I didn't call for help or advice during regular office hours in the last 12 months.

YOUR HEALTH CARE IN THE LAST 12 MONTHS

18. 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?

- Yes
- No → Go to Question 21

19. 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
- I didn't need care right away for an illness, injury or condition in the last 12 months.

20. 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?

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

21. A health provider could be a general doctor, a specialist doctor, a nurse practitioner, a physician assistant, a nurse, or anyone else you would see for health care.

In the last 12 months, not counting the times you needed health care right away, did you make any appointments with a doctor or other health provider for health care?

- Yes
- No → Go to Question 24

22. 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?

- Never
- Sometimes
- Usually
- Always
- I had no appointments in the last 12 months.

23. 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?

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

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

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

25. 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 care for yourself?

- None → Go to Question 38
- 1
- 2
- 3
- 4
- 5 to 9
- 10 or more

26. In the last 12 months, did you or a doctor believe you needed any care, tests, or treatment?

- Yes
- No → Go to Question 28

27. 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?

- A big problem
- A small problem
- Not a problem
- I had no visits in the last 12 months.

28. In the last 12 months, did you need approval from your health plan for any care, tests, or treatment?

- Yes
- No → Go to Question 30

29. 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?

- A big problem
- A small problem
- Not a problem
- I had no visits in the last 12 months.

30. In the last 12 months, how often were you taken to the exam room within 15 minutes of your appointment?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

31. In the last 12 months, how often did office staff at a doctor's office or clinic treat you with courtesy and respect?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

32. In the last 12 months, how often were office staff at a doctor's office or clinic as helpful as you thought they should be?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

33. In the last 12 months, how often did doctors or other health providers listen carefully to you?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

34. 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
- I had no visits in the last 12 months.

35. 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
- I had no visits in the last 12 months.

36. In the last 12 months, how often did doctors or other health providers spend enough time with you?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

37. 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
- I had no visits in the last 12 months.

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

- Excellent
- Very good
- Good
- Fair
- Poor

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

- Yes
- No → Go to Question 42

40. 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?

- A big problem
- A small problem
- Not a problem

41. 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 all your treatment or counseling in the last 12 months?

- 0 Worst treatment or counseling possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best treatment or counseling possible

42. In the last 12 months, where did you go most often for your health care? **MARK ONLY ONE ANSWER.**

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

CIVILIAN PROVIDERS

The following questions ask about your experiences with the TRICARE civilian provider network. TRICARE, including TRICARE Prime and Extra, is the health care 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 a civilian network. The TRICARE civilian provider network is made up of the doctors, clinics, hospitals and other health care providers who are part of DoD's preferred provider pool. The next seven questions refer to health services you received from the civilian network.

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

- All of my health care
- Most of my health care
- Some of my health care
- None of my health care
- I did not need health care in the last 12 months → **Go to Question 59**

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

- A big problem
- A small problem
- Not a problem
- I did not try to get health care from the civilian network.

45. 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.

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

- A big problem
- A small problem
- Not a problem → **Go to Question 47**
- I did not try to find a personal doctor from the civilian network → **Go to Question 47**

46. What problems did you encounter in finding a personal doctor from the civilian network? **MARK ALL THAT APPLY.**

- Travel distance too long
- Communicating with doctor(s)
- Doctor(s) not taking new patients
- Could not find the specialty I wanted
- Did not like doctor(s)
- Wait for an appointment was too long
- Could not find information about doctors
- Other _____

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

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

- A big problem
- A small problem
- Not a problem → **Go to Question 49**
- I did not try to find a specialist in the civilian network → **Go to Question 49**

48. What problems did you encounter in finding a network specialist? MARK ALL THAT APPLY.

- Travel distance too long
- Communicating with doctor(s)
- Doctor(s) not taking new patients
- Did not like doctor(s)
- Wait for an appointment was too long
- Could not find information about doctors
- Other _____

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

- Yes
- No
- I did not want to see any network doctors

The following questions ask about your experiences with civilian providers that are not part of TRICARE's network. Under TRICARE Standard, TRICARE pays part of the cost when you see civilian doctors that are not preferred providers.

50. In the last 12 months, have you tried to make an appointment with a civilian doctor who is not part of TRICARE's civilian network?

- Yes
- No → Go to Question 59
- Don't know

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?

- Yes, not seeing TRICARE patients
- Yes, not seeing new TRICARE patients
- No

52. In the last 12 months, how much of a problem has it been to find doctors who will accept TRICARE?

- A big problem
- A small problem
- Not a problem

53. 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.

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

- A big problem
- A small problem
- Not a problem → Go to Question 55
- I did not try to find a civilian personal doctor → Go to Question 55

54. What problems did you encounter in finding a personal doctor who would accept TRICARE? MARK ALL THAT APPLY.

- Travel distance too long
- Communicating with doctor(s)
- Doctor(s) would not accept TRICARE fee schedule
- Could not find the specialty I wanted
- Did not like doctor(s)
- Wait for an appointment was too long
- Could not find information about doctors
- Other _____

55. **Specialists** are doctors like surgeons, heart doctors, allergy doctors, skin doctors, and others who specialize in one area of health care.

In the last 12 months, have you tried to make an appointment with a civilian specialist who is not part of TRICARE's network?

- Yes
- No → **Go to Question 59**
- Don't know → **Go to Question 59**

56. What was the specialty of the **last** non-network civilian specialist you tried to see?

- Surgeon
- Dermatologist
- Psychiatrist or psychologist
- Urologist
- Orthopedist
- Ear, nose and throat
- Cardiologist
- Allergist
- Obstetrician
- Other _____

57. In the last 12 months, how much of a problem was it to get an appointment with the specialist in Question 56?

- A big problem
- A small problem
- Not a problem → **Go to Question 59**

58. What problems did you encounter in finding this specialist? **MARK ALL THAT APPLY.**

- Travel distance too long
- Communicating with doctor(s)
- Doctor(s) would not accept TRICARE fee schedule
- Did not like doctor(s)
- Wait for an appointment was too long
- Could not find information about doctors
- Other _____

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 6.

59. 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?

- Yes
- No → **Go to Question 62**
- Don't know → **Go to Question 62**

60. 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
- No claims were sent for me in the last 12 months.

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

- Never
- Sometimes
- Usually
- Always
- Don't know
- No claims were sent for me in the last 12 months.

62. In the last 12 months, did you look for any information about how your health plan works in written material or on the Internet?

- Yes
- No → **Go to Question 64**

63. In the last 12 months, how much of a problem, if any, was it to find or understand this information?

- A big problem
- A small problem
- Not a problem
- I didn't look for information from my health plan in the last 12 months.

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

- Yes
- No → **Go to Question 66**

65. 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
- I didn't call my health plan's customer service in the last 12 months.

66. In the last 12 months, did you have to fill out any paperwork for your health plan?

- Yes
- No → **Go to Question 68**

67. In the last 12 months, how much of a problem, if any, did you have with paperwork for your health plan?

- A big problem
- A small problem
- Not a problem
- I didn't have any experiences with paperwork for my health plan 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 Worst health plan possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 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?

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

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

- Yes, it is too high
- No, it is not too high
- Don't know

71. When did you last have a flu shot?

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

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

- Yes
- No → Go to Question 78
- Don't know → Go to Question 78

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

- Every day → Go to Question 75
- Some days → Go to Question 75
- Not at all → Go to Question 74
- Don't know → Go to Question 78

74. How long has it been since you quit smoking cigarettes?

- Less than 12 months → Go to Question 75
- 12 months or more → Go to Question 78
- Don't know → Go to Question 78

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?

- None
- 1 visit
- 2 to 4 visits
- 5 to 9 visits
- 10 or more visits
- 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)?

- None
- 1 visit
- 2 to 4 visits
- 5 to 9 visits
- 10 or more visits
- 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?

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

78. Are you male or female?

- Male → Go to Question 85
- Female → Go to Question 79

79. 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 test

80. Are you under age 40?

- Yes → **Go to Question 82**
- No

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

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

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

- Yes, I am currently pregnant → **Go to Question 83**
- No, I am not currently pregnant, but have been pregnant in the past 12 months → **Go to Question 84**
- No, I am not currently pregnant, and have not been pregnant in the past 12 months → **Go to Question 85**

83. In what trimester is your pregnancy?

- First trimester (up to 12 weeks after 1st day of last period) → **Go to Question 85**
- Second trimester (13th through 27th week)
- Third trimester (28th week until delivery)

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

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

ABOUT YOU

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

- Excellent
- Very good
- Good
- Fair
- Poor

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

- Yes
- No

87. How tall are you without your shoes on? Please give your answer in feet and inches.

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

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

88. How much do you weigh without your shoes on?
Please give your answer in pounds.

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

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

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

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

90. Are you of Hispanic or Latino origin or descent? (Mark "NO" if not Spanish/Hispanic/Latino.)

- No, not Spanish, Hispanic, or Latino
- Yes, Mexican, Mexican American, Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, other Spanish, Hispanic, or Latino

91. What is your race? (Mark ONE OR MORE races to indicate what you consider yourself to be.)

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

92. What is your age now?

- 18 to 24
- 25 to 34
- 35 to 44
- 45 to 54
- 55 to 64
- 65 to 74
- 75 or older

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:

Synovate
PO Box 5030
Chicago, IL 60680-4138

APPENDIX A

ANNOTATED QUESTIONNAIRE - QUARTER IV

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Health Care Survey of DoD Beneficiaries



We need your help!

The Department of Defense is conducting a world-wide survey of DoD health care beneficiaries aimed at understanding and improving your health care. Recently, we sent you a survey asking your opinions about the health care experiences you've had in the last 12 months. *If you have already completed this survey, please disregard this questionnaire.* If not, we hope that you will take advantage of this opportunity to participate in the survey. *Even if you do not receive health care from a military facility, please complete this survey since your views are important to us and your opinions count.* Your participation will help improve the health care offered to DoD Beneficiaries throughout the world.

Please fill this out and mail it in the enclosed postage-paid envelope. Or, you can complete the survey online by visiting www.synovate.net/q4dodsat and using your unique 6-digit password which can be found on the top of this page.

The results of this survey will be posted at <http://www.tricare.osd.mil/survey/hcsurvey/>.

Questions about the survey?

Email: surveydodq4@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 name, address, and the 8-digit number above your address in the envelope.

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/tricarecenters

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

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YOUR PRIVACY

All information that would let someone identify you or your family will be kept private. Providing information in this questionnaire is voluntary. There is no penalty if you choose not to respond. You may notice a number on the cover of this survey. This number is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

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. If you want to see the results of past surveys, please log on to www.tricare.osd.mil/survey/hcsurvey/.

According to the Privacy Act of 1974 (Public Law 93-579), 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., Chapter 55; Section 706, Public Law 102-484; E.O. 9397.

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: 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.

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 you have misplaced the envelope, our address is:

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

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 envelope. 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 mailing label of this envelope?

- Yes → Go to Question 2
 No → Please give this questionnaire to the person addressed on the envelope.

2. By which of the following health plans are you currently covered? **MARK ALL THAT APPLY.**

Military Health Plans

- TRICARE Prime
 TRICARE Extra or Standard (CHAMPUS)
 TRICARE Plus
 TRICARE for Life
 TRICARE Supplemental Insurance
 TRICARE Reserve Select

Other Health Plans

- Medicare
 Federal Employees Health Benefit Program (FEHBP)
 Medicaid
 A civilian HMO (such as Kaiser)
 Other civilian health insurance (such as Blue Cross)
 Uniformed Services Family Health Plan (USFHP)
 The Veterans Administration (VA)
 Not sure

3. **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.

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

4. **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.

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

5. **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.

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

6. **Which health plan did you use for all or most of your health care in the last 12 months? MARK ONLY ONE.**

- TRICARE Prime
 TRICARE Extra or Standard (CHAMPUS)
 TRICARE Plus
 TRICARE Reserve Select
 Medicare (may include TRICARE for Life)
 Federal Employees Health Benefit Program (FEHBP)
 Medicaid
 A civilian HMO (such as Kaiser)
 Other civilian health insurance (such as Blue Cross)
 Uniformed Services Family Health Plan (USFHP)
 The Veterans Administration (VA)
 Not sure
 Did not use any health plan in the last 12 months → Go to Question 8

For the remainder of this questionnaire, the term health plan refers to the plan you indicated in Question 6.

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

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

YOUR PERSONAL DOCTOR OR NURSE

The next 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.

8. 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. Do you have one person you think of as your personal doctor or nurse?

- Yes
- No → Go to Question 11

9. 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
- I don't have a personal doctor or nurse.

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

- Yes → Go to Question 12
- No

11. 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?

- A big problem
- A small problem
- Not a problem

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits.

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

In the last 12 months, did you or a doctor think you needed to see a specialist?

- Yes
- No → Go to Question 14

13. 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
- I didn't need a specialist in the last 12 months.

14. In the last 12 months, did you see a specialist?

- Yes
- No → Go to Question 16

15. 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
- I didn't see a specialist in the last 12 months

CALLING DOCTORS' OFFICES

16. In the last 12 months, did you call a doctor's office or clinic during regular office hours to get help or advice for yourself?

- Yes
- No → Go to Question 18

17. In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed?

- Never
- Sometimes
- Usually
- Always
- I didn't call for help or advice during regular office hours in the last 12 months.

YOUR HEALTH CARE IN THE LAST 12 MONTHS

18. 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?

- Yes
- No → Go to Question 21

19. 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
- I didn't need care right away for an illness, injury or condition in the last 12 months.

20. 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?

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

21. A health provider could be a general doctor, a specialist doctor, a nurse practitioner, a physician assistant, a nurse, or anyone else you would see for health care.

In the last 12 months, not counting the times you needed health care right away, did you make any appointments with a doctor or other health provider for health care?

- Yes
- No → Go to Question 24

22. 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?

- Never
- Sometimes
- Usually
- Always
- I had no appointments in the last 12 months.

23. 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?

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

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

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

25. 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 care for yourself?

- None → Go to Question 38
- 1
- 2
- 3
- 4
- 5 to 9
- 10 or more

26. In the last 12 months, did you or a doctor believe you needed any care, tests, or treatment?

- Yes
- No → Go to Question 28

27. 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?

- A big problem
- A small problem
- Not a problem
- I had no visits in the last 12 months.

28. In the last 12 months, did you need approval from your health plan for any care, tests, or treatment?

- Yes
- No → Go to Question 30

29. 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?

- A big problem
- A small problem
- Not a problem
- I had no visits in the last 12 months.

30. In the last 12 months, how often were you taken to the exam room within 15 minutes of your appointment?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

31. In the last 12 months, how often did office staff at a doctor's office or clinic treat you with courtesy and respect?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

32. In the last 12 months, how often were office staff at a doctor's office or clinic as helpful as you thought they should be?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

33. In the last 12 months, how often did doctors or other health providers listen carefully to you?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

34. 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
- I had no visits in the last 12 months.

35. 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
- I had no visits in the last 12 months.

36. In the last 12 months, how often did doctors or other health providers spend enough time with you?

- Never
- Sometimes
- Usually
- Always
- I had no visits in the last 12 months.

37. 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
- I had no visits in the last 12 months.

38. In the last 12 months, where did you go most often for your health care? **MARK ONLY ONE ANSWER.**

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

PRESCRIPTION MEDICINE

39. In the last 90 days, have you filled any prescriptions using your TRICARE benefit? A prescription means either a new prescription or a refill of an old prescription.

- Yes
- No → Go to Question 59

MHS beneficiaries may use their prescription drug coverage for drugs from an MTF-based pharmacy, for drugs by mail from the TRICARE mail order pharmacy (TMOP), or for drugs from civilian pharmacies. Beneficiaries may use civilian pharmacies in the TRICARE retail network or non-network civilian pharmacies. Network pharmacies are civilian pharmacies that sign agreements with TRICARE. At network pharmacies, beneficiaries pay only a small copay for a 30-day supply of a prescription drug. At non-network civilian pharmacies, beneficiaries may have to pay the full cost of the prescription and file claims for reimbursement. For each question, please mark the response that describes your experience with each pharmacy type.

40. In the last 90 days, have you filled any prescriptions at any of these pharmacy types? A prescription means either a new prescription or a refill of an old prescription. If you have not used a pharmacy of a particular type, please check "I have filled no prescriptions at this pharmacy type."

	A MTF Pharmacy	B TRICARE Mail Order Pharmacy	C Network Civilian	D Non- Network Civilian
New prescriptions only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Refills only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Both new prescriptions and refills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I have filled no prescriptions at this pharmacy type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Don't know	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

41. In the last 90 days, when you filled new prescriptions, what kind of information about your medications did you usually receive at each type of pharmacy?

	A MTF	B TRICARE Mail Order Pharmacy	C Network Civilian	D Non- Network Civilian
Written information only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Verbal information only	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Written and verbal information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No information at all	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I have filled no new prescriptions at this pharmacy type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

42. How far do you have to travel from where you live to use a pharmacy of each type?

	A MTF	B Network Civilian	C Non- Network Civilian
Less than 2 miles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
At least 2 but less than 5 miles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
At least 5 but less than 15 miles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
At least 15 but less than 40 miles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40 miles or more	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Don't know	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

43. In the last 90 days, how often did you have to wait more than 30 minutes at the pharmacy for your prescriptions to be filled?

	A MTF	B Network Civilian	C Non- Network Civilian
Never	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sometimes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Usually	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Always	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I have filled no prescriptions at this pharmacy type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

44. We want to know your rating of the pharmacies where you filled prescriptions in the last 90 days.

Use any number from 0 to 10, where 0 is the worst pharmacy possible, and 10 is the best pharmacy. How would you rate your pharmacies now?

	A MTF	B TRICARE Mail Order Pharmacy	C Network Civilian	D Non- Network Civilian
0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did not use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

45. In the last 90 days, why did you choose to fill your prescriptions at an MTF pharmacy? MARK ALL THAT APPLY.

- I was at the MTF for a medical appointment
- I was visiting the military installation for another reason
- The MTF pharmacy is conveniently located
- Prescription drugs are free at the MTF pharmacy
- I like the service at the MTF pharmacy
- My doctor recommended I use the MTF pharmacy
- I get better instructions and information at the MTF pharmacy than at other pharmacies
- I trust the MTF pharmacy more than others to fill prescriptions correctly
- Other reasons
- I have not used MTF pharmacies in the past 90 days

46. In the last 90 days, why did you choose to fill your prescriptions at a non-network pharmacy? MARK ALL THAT APPLY.

- I used other health insurance (not TRICARE)
- I was traveling
- The network pharmacy is not conveniently located
- I did not know how to determine if the pharmacy was in the network
- I prefer the non-network pharmacy
- I did not know there was a difference between network and non-network pharmacies
- Other reasons
- I have not used non-network pharmacies in the last 90 days

47. In the last 90 days, did you file any claims for prescriptions that you filled at non-network pharmacies?

- Yes
- No → Go to Question 49

48. In the last 90 days, what problems, if any, did you encounter with your claims? MARK ALL THAT APPLY.

- None
- Instructions for completing the claim form were difficult to understand
- It was difficult to obtain a claim form
- It took more than 20 days for my claim to be processed

49. In the last 90 days, have you used a network civilian pharmacy?

- Yes
- No → Go to Question 51

50. We want to know your rating of the service you received when you filled prescriptions at network civilian pharmacies in the past 90 days.

Use any number from 0 to 10, where 0 is the worst service possible, and 10 is the best service. How would you rate your prescription drug service now?

	A Claims Handling	B Customer Service Phone Line	C Information from the Pharmacist
0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did not use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

51. In the last 90 days, have you filled any prescriptions at a civilian pharmacy for medications you have been taking or will take for a long time (at least 90 days)?

- Yes
- No → Go to Question 53

52. In the last 90 days, why did you choose to fill your long-term prescriptions at a civilian pharmacy? MARK ALL THAT APPLY.

- I do not know how to get drugs through the mail order pharmacy
- I do not feel comfortable getting drugs through the mail
- The civilian pharmacy is more convenient
- The mail order pharmacy does not have the medication I need
- I like the service at the civilian pharmacy
- I get better instructions and information at the civilian pharmacy than at other pharmacies
- The MTF pharmacy does not have the medication I need
- I trust the civilian pharmacy more than others to fill prescriptions correctly
- There is no MTF pharmacy nearby
- Other reasons

53. In the last 12 months, where have you gotten information about the TRICARE mail order pharmacy? MARK ALL THAT APPLY.

- The TRICARE website
- On the internet, but not from the TRICARE website
- Mailings
- An MTF pharmacy
- Military publications or periodicals
- A friend or friends
- Another source
- I have gotten no information about the TRICARE mail order pharmacy in the last 12 months
- I know nothing about the TRICARE mail order pharmacy

54. In the last 90 days, have you used the TRICARE mail order pharmacy?

- Yes → Go to Question 56
- No

55. In the last 90 days, why did you not use the TRICARE mail order pharmacy? MARK ALL THAT APPLY.

- I did not know I could use the mail order pharmacy
- I do not know how to use the mail order pharmacy
- The mail order pharmacy costs too much
- I do not feel comfortable getting drugs through the mail
- The mail order pharmacy does not have the medication I need
- The mail order pharmacy is too difficult to use
- The civilian pharmacy is more convenient
- I trust the civilian pharmacy more than others to fill prescriptions correctly
- I get better instructions and information at the civilian pharmacy than at other pharmacies
- The MTF pharmacy is more convenient
- I trust the MTF pharmacy more than others to fill prescriptions correctly
- I get better instructions and information at the MTF pharmacy than at other pharmacies
- I needed my prescription filled immediately
- Other reasons

→ Go to Question 59

56. In the last 90 days, how often did you get prescription drugs from the TRICARE mail order pharmacy within 14 days of the day you placed your order?

- Never
- Sometimes
- Usually
- Always
- I did not order drugs from the mail-order pharmacy

57. In the last 90 days, have you tried to use the Express Scripts website to order refills? Express Scripts is the contractor that operates the TRICARE mail order pharmacy.

- Yes
- No → Go to Question 59

58. In the last 90 days, how much of a problem, if any, was it to order refills on the Express Scripts website?

- A big problem
- A small problem
- No problem
- I did not try to use the Express Scripts website

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 6.

59. 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?

- Yes
- No → Go to Question 62
- Don't know → Go to Question 62

60. 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
- No claims were sent for me in the last 12 months.

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

- Never
- Sometimes
- Usually
- Always
- Don't know
- No claims were sent for me in the last 12 months.

62. In the last 12 months, did you look for any information about how your health plan works in written material or on the Internet?

- Yes
- No → Go to Question 64

63. In the last 12 months, how much of a problem, if any, was it to find or understand this information?

- A big problem
- A small problem
- Not a problem
- I didn't look for information from my health plan in the last 12 months.

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

- Yes
- No → Go to Question 66

65. 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
- I didn't call my health plan's customer service in the last 12 months.

66. In the last 12 months, did you have to fill out any paperwork for your health plan?

- Yes
- No → Go to Question 68

67. In the last 12 months, how much of a problem, if any, did you have with paperwork for your health plan?

- A big problem
- A small problem
- Not a problem
- I didn't have any experiences with paperwork for my health plan 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 Worst health plan possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 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?

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

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

- Yes, it is too high
- No, it is not too high
- Don't know

71. When did you last have a flu shot?

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

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

- Yes
- No → Go to Question 78
- Don't know → Go to Question 78

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

- Every day → Go to Question 75
- Some days → Go to Question 75
- Not at all → Go to Question 74
- Don't know → Go to Question 78

74. How long has it been since you quit smoking cigarettes?

- Less than 12 months → Go to Question 75
- 12 months or more → Go to Question 78
- Don't know → Go to Question 78

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?

- None
- 1 visit
- 2 to 4 visits
- 5 to 9 visits
- 10 or more visits
- 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)?

- None
- 1 visit
- 2 to 4 visits
- 5 to 9 visits
- 10 or more visits
- 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?

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

78. Are you male or female?

- Male → Go to Question 85
- Female → Go to Question 79

79. 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 test

80. Are you under age 40?

- Yes → Go to Question 82
- No

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

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

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

- Yes, I am currently pregnant → Go to Question 83
- No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 84
- No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 85

83. In what trimester is your pregnancy?

- First trimester (up to 12 weeks after 1st day of last period) → Go to Question 85
- Second trimester (13th through 27th week)
- Third trimester (28th week until delivery)

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

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

ABOUT YOU

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

- Excellent
- Very good
- Good
- Fair
- Poor

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

- Yes
- No

87. How tall are you without your shoes on? Please give your answer in feet and inches.

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

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

88. How much do you weigh without your shoes on?
Please give your answer in pounds.

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

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

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

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

90. Are you of Hispanic or Latino origin or descent? (Mark "NO" if not Spanish/Hispanic/Latino.)

- No, not Spanish, Hispanic, or Latino
- Yes, Mexican, Mexican American, Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, other Spanish, Hispanic, or Latino

91. What is your race? (Mark ONE OR MORE races to indicate what you consider yourself to be.)

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

92. What is your age now?

- 18 to 24
- 25 to 34
- 35 to 44
- 45 to 54
- 55 to 64
- 65 to 74
- 75 or older

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:

Synovate
PO Box 5030
Chicago, IL 60680-4138

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APPENDIX B

CODING SCHEME AND CODING TABLES – QUARTERS I-IV

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CODING SCHEME AND CODING TABLES –QUARTER I, 2006

2006 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
.A		-8	Multiple response error
.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:
H06006, H06007**

N1	H06006 is:	H06007 is:	H06006 is coded as:	H06007 is coded as:	*
1	1-11, 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:
H06008, H06009, H06010, H06011**

N2	H06008 is:	H06009 is:	H06010 is:	H06011 is:	H06008 is coded as:	H06009 is coded as:	H06010 is coded as:	H06011 is coded as:	*
1	1: yes, or missing response	-6: Don't have a personal Dr	Any value	Any value	2: no	.C, question should be skipped	.N, valid skip if missing; .C, question should be skipped, if marked	Stands as original value	B F
2	1: yes	0-10 or missing response	1: yes	1-3	Stands as original value	Stands as original value	Stands as original value	.C, question should be skipped	F
3	1: yes	0-10 or missing response	Missing response	1-3	Stands as original value	Stands as original value	2: no	Stands as original value	B
4	1: yes	0-10 or missing response	1: yes	Missing response	Stands as original value	Stands as original value	Stands as original value	.N, valid skip if missing	F
5	1: yes	0-10 or missing response	2: no	Any value	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
6	1: yes	0-10 or missing response	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
7	2: no or missing response	0-10	1: yes or missing response	1-3	1: yes	Stands as original value	2: no	Stands as original value	B
8	2: no or missing response	Missing response	1: yes	1-3	1: yes	Stands as original value	2: no	Stands as original value	B
9	2: no	-6: Don't have a personal Dr	Any value	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	Stands as original value	B F
10	2: no or missing response	Any value	1: yes	Missing response	1: yes	Stands as original value	Stands as original value	.N, valid skip if missing	B F

Coding Table for Note 2 continued:

N2	H06008 is:	H06009 is:	H06010 is:	H06011 is:	H06008 is coded as:	H06009 is coded as:	H06010 is coded as:	H06011 is coded as:	*
11	2: no or missing response	Any value	2: no	Any value	1: yes	Stands as original value	Stands as original value	Stands as original value	B
12	2: no or missing response	0-10	Missing response	Missing response	1: yes	Stands as original value	Stands as original value	Stands as original value	B
13	2: no	Missing response	Missing response	Any value	Stands as original value	.N, valid skip if missing	.N, valid skip	Stands as original value	F
14	Missing response	Missing response	Missing response	Any value	Stands as original 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 3:
H06012, H06013**

N3	H06012 is:	H06013 is:	H06012 is coded as:	H06013 is coded as:	*
1	1: yes	1, 2, 3, or missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't need to see a specialist	2: No	.C question should be skipped	B F
3	2: no or missing response	1, 2, 3	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't need to see a specialist	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 4:
H06014, H06015**

N4	H06014 is:	H06015 is:	H06014 is coded as:	H06015 is coded as:	*
1	1: yes	0-10, or missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't need to see a specialist	2: No	.C question should be skipped	B F
3	2: no, or missing response	0-10	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't need to see a specialist	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 5:
H06016, H06017**

N5	H06016 is:	H06017 is:	H06016 is coded as:	H06017 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: no calls	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: no calls or missing	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 6:
H06018, H06019, H06020**

N6	H06018 is:	H06019-H06020 are:	H06018 is coded as:	H06019-H06020 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value otherwise	
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, stands as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stands 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, stands 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	“One marked, and one NA”	2: no	.C, question should be skipped if marked	B F
9	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 6:
Responses to H06019-H06020 are all missing.

Definition of “Blank or NA” in Coding Table for Note 6:
All of the following are true: H06019-H06020 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 6:
H06019-H06020 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 6:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 7:
H06021, H06022, H06023**

N7	H06021 is:	H06022-H06023 are:	H06021 is coded as:	H06022-H06023 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stands as original value otherwise	
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, stands as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stands 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, stands 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	“One marked, and one NA”	2: no	.C, question should be skipped if marked	B F
9	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 7:
Responses to H06022-H06023 are all missing.

Definition of “Blank or NA” in Coding Table for Note 7:
All of the following are true: H06022-H06023 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 7:
H06022-H06023 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 8:
H06025, H06026-H06037**

N8	H06025 is:	H06026-H06037 are:	H06025 is coded as:	H06026-H06037 are coded as:	*
1	1: None	At least one is "marked", "All are blank", or "blank or NA"	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, stands 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	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 8:
Responses to H06026-H06037 are all missing.

Definition of "Blank or NA" in Coding Table for Note 8:
All of the following are true: H06026-H06037 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 8:
Any pattern of marks outside the definitions "all are blank" and "Blank or NA."

**Coding Table for Note 9:
H06026, H06027**

N9	H06026 is:	H06027 is:	H06026 is coded as:	H06027 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	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
3	1: yes, missing response	-6: No visits	2: no	.C, question should be skipped	B F
4	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
5	2: no	-6: No visits or missing response	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 10:
H06028, H06029**

N10	H06028 is:	H06029 is:	H06028 is coded as:	H06029 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	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
3	1: yes, missing response	-6: No visits	2: no	.C, question should be skipped	B F
4	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
5	2: no	-6: No visits or missing	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 13:
H06039, H06040-H06041**

N13 H06039 is:		H06040-H06041 are:	H06039 is coded as:	H06040-H06041 are coded as:	*
1	1: yes	At least one is “marked”, “all are blank” or “blank or don’t know”	Stands as original value	Stand as original value ., missing if -6	F
2	1: yes, -5: don’t know, missing	“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, missing	At least one is “marked” or “blank or don’t know”	1: yes	., missing if -6, stands as original value otherwise	B F
4	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
5	-5: don’t know	“All are blank”	Stands as original value	.N, valid skip if missing	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 13:
Responses to H06040-H06041 are all missing.

Definition of “blank or NA” in Coding Table for Note 13:
Responses to H06040-H06041 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 13:
Responses to H06040-H06041 are either all don’t know (-5) or a combination of missing and don’t know (-5).

Definition of “marked” in Coding Table for Note 13:
Any pattern of marks outside the definitions “all are blank,” “blank or NA,” or “blank or don’t know.”

**Table for Note 14:
H06042, H06043**

N14	H06042 is:	H06043 is:	H06042 is coded as:	H06043 is coded as:	*
1	1: yes	1, 2, 3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't look for information in health plan	2: No	.C question should be skipped	B F
3	2: no, or missing response	1, 2, 3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't look for information in health plan	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 15:
H06044, H06045**

N15	H06044 is:	H06045 is:	H06044 is coded as:	H06045 is coded as:	*
1	1: yes	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, missing response	-6: didn't call health plan	2: No	.C question should be skipped	B F
3	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't call health plan	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:
H06046, H06047**

N16	H06046 is:	H06047 is:	H06046 is coded as:	H06047 is coded as:	*
1	1: yes	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't have any experience	2: No	.C question should be skipped	B F
3	2: no, or missing response	1-3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't have any experience	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 16A:
S06G18, S06G19-S06G39**

N16A	S06G18 is:	S06G19 is:	S06G23 is:	S06G20-S06G22 S06G24-S06G39 are:	S06G18 is coded as:	S06G19 is coded as:	S06G23 is coded as:	S06G20-S06G22 S06G24-S06G39 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; .C, question should be skipped if marked	B F
2	1: Yes	1, 2 : Yes, Missing	1, 2 : Yes, Missing	Any Value	Stands as original value	Stand as original value	Stand as original value	Stand as original value	
3	2: No	2: No	2: No	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; .C, question should be skipped if marked	F
4	Missing response	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	At least one is "Marked"	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; .C, question should be skipped if marked	B F
5	Missing response	1, 2 : Yes, Missing	1, 2 : Yes, Missing	At least one is "Marked"	1: Yes	Stand as original value	Stand as original value	Stand as original value	B
6	Missing response	Missing response	Missing response	"All are blank"	Stands as original value	., if unmarked response to question with marked/unmarked responses (1/2); Stand as original value otherwise	., if unmarked response to question with marked/unmarked responses (1/2); Stand as original value otherwise	., if unmarked response to question with marked/unmarked responses (1/2); Stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" or "unmarked" in Coding Table for Note 16A:
Responses to S06G19-S06G39 are all missing or unmarked.

Definition of "marked" in Coding Table for Note 16A:
Any pattern of marks outside the definitions "all are blank " or "unmarked"

**Coding Table for Note 16B:
S06G19, S06G20-S06G22**

N16B	S06G19 is:	S06G20-S06G22 are:	S06G19 is coded as:	S06G20-S06G22 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: Active Duty	Any value	Stands as original value	Stands as original value	
3	3, 4: Not Active Duty	Any value	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
4	Missing response	Any value	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16C:
S06G23, S06G24-S06G26**

N16C	S06G23 is:	S06G24-S06G26 are:	S06G23 is coded as:	S06G24-S06G26 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: Active Duty	Any value	Stands as original value	Stands as original value	
3	3, 4: Not Active Duty	Any value	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
4	Missing response	Any value	Stands as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16D:
S06G28, S06G29A-S06G29K, S06G30**

N16D	S06G28 is:	S06G29A-S06G29K are:	S06G30 is:	S06G28 is coded as:	S06G29A-S06G29K are coded as:	S06G30 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	3: Civilian Coverage	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	1: Only TRICARE	Any value	Any value	Stands as original value	.N, valid skip if missing/"not marked", .C, question should be skipped if marked	.N, valid skip if missing, .C, question should be skipped if marked	F
4	2: Both, -5: Don't know	Any value	Any value	Stands as original value	.N, valid skip if missing/"not marked", .C, question should be skipped if marked	Stands as original value	F
5	Missing response	Any value	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 "not marked" in Coding Table for Note 16D:
Responses to S06G29A-S06G29K are not marked as 1.

**Coding Table for Note 16E:
S06G32, S06G33-S06G34**

N16E	S06G32 is:	S06G33 is:	S06G34 is:	S06G32 is coded as:	S06G33 is coded as:	S06G34 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	., missing if -6; Stand as original value otherwise	., missing if -6; Stand as original value otherwise	F
3	2: No	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
4	-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
5	Missing response	Any value	Any value	Stands as original value	Stand as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 16F:
S06G36, S06G37-S06G38**

N16F	S06G36 is:	S06G37 is:	S06G38 is:	S06G36 is coded as:	S06G37 is coded as:	S06G38 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	1: Yes, missing	Any value	Stands as original value	Stand as original value	Stand as original value	
3	1: Yes	2: No, 3: Don't know	Any value	Stands as original value	Stand as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
4	2: No, -5: Don't know	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
5	Missing response	Any value	Any value	Stands as original value	Stand as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 17:
H06052--H06057**

N17	H06052 is:	H06053 is:	H06054 is:	H06055- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055- H06057 are coded as:	*
1	1: ever smoked	3 or 4: still smoke	Any value	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	Stand as original value	F
2	1: ever smoked	2: quit	2: quit >1 year ago or -5: don't know	Any value	Stands as original 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	2: quit	3: quit <1 year ago, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
4	1: ever smoked	-5: don't know, missing response	2: quit >1 year ago	Any value	Stands as original value	2: quit	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	F B
5	1: ever smoked	-5: don't know, missing response	3: quit <1 year ago	Any value	Stands as original value	2: quit	Stands as original value	Stand as original value	B
6	1: ever smoked	-5: don't know	-5: don't know, missing response	Any value	Stands as original 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
7	1: ever smoked	Missing response	-5: don't know	Any value	Stands as original 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 17 continued:

N17	H06052 is:	H06053 is:	H06054 is:	H06055- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055- H06057 are coded as:	*
8	1: ever smoked	Missing response	Missing response	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
9	2: never, -5: don't know, missing response	3 or 4: still smoke	Any value	Any value	1: ever smoked	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	Stand as original value	B F
10	2: never or -5: don't know	2: quit, -5: don't know, or missing response	Any value	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	.C, question should be skipped if marked, .N, valid skip if missing	F
11	Missing response	2: quit	Missing response	2-5: some visits	1: ever smoked	Stands as original value	3: quit <1 year ago	Stand as original value	B
12	Missing response	2: quit, missing response	2: quit >1 year ago, -5: don't know	Any value	Stands as original value	Stands as original value	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	F
13	Missing response	2: quit, missing response	3: quit <1 year ago, missing response	2-5: some visits	1: ever smoked	Stands as original value	Stands as original value	Stand as original value	B
14	Missing response	2: quit, missing response	3: quit <1 year ago, missing response	1: none, -6: no visits, missing response	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
15	Missing response	-5: don't know	Any value	Any value	Stands as original 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

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 18:

Note 18 (Part a)

H06058, SEX, XSEXA, H06059-H06065

N18A	H06058 is :	SEX is:	H06059--H06065 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 or Z	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 (H06058), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 18 (Part B):

XSEXA, H06059 - H06065

N18B	XSEXA is:	H06059--H06065 are:	H06059--H06065 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”	Stands 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 18b:
All variables H06059--H06065 are missing.

Definition of “marked” in Coding Table for Note 18b:
Any pattern of marks outside the definition “all are blank.”

Coding Table for Note 19
XSEXA, AGE, H06060, H06061

	XSEXA N19 is:	AGE is:	H06060 is:	H06061 is:	H06060 is coded as:	H06061 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	Marked, missing response	Stands as original value	Stand as original value	
3	2: Female	Any value	1: under 40	Marked, missing response	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	1: < 40	.N, valid skip	F 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 20:
XSEXA, H06063, H06064, H06065**

N20	XSEXA is:	H06063 is:	H06064 is:	H06065 is:	H06063 is coded as:	H06064 is coded as:	H06065 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 20 continued:

N20	XSEXA is:	H06063 is:	H06064 is:	H06065 is:	H06063 is coded as:	H06064 is coded as:	H06065 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	1: pregnant now	Stands as original value	Stands as original value	B
11	2: Female	Missing response	3: third trimester, missing response	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 SCHEME AND CODING TABLES – QUARTER II

FY 2006 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:
H06006, H06007**

N1	H06006 is:	H06007 is:	H06006 is coded as:	H06007 is coded as:	*
1	1-11, 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:
H06008, H06009, H06010, H06011**

N2	H06008 is:	H06009 is:	H06010 is:	H06011 is:	H06008 is coded as:	H06009 is coded as:	H06010 is coded as:	H06011 is coded as:	*
1	1: yes, or missing response	-6: Don't have a personal Dr	Any value	Any value	2: no	.C, question should be skipped	.N, valid skip if missing; .C, question should be skipped, if marked	Stands as original value	B F
2	1: yes	0-10 or missing response	1: yes	1-3	Stands as original value	Stands as original value	Stands as original value	.C, question should be skipped	F
3	1: yes	0-10 or missing response	Missing response	1-3	Stands as original value	Stands as original value	2: no	Stands as original value	B
4	1: yes	0-10 or missing response	1: yes	Missing response	Stands as original value	Stands as original value	Stands as original value	.N, valid skip if missing	F
5	1: yes	0-10 or missing response	2: no	Any value	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
6	1: yes	0-10 or missing response	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
7	2: no or missing response	0-10	1: yes	1-3	1: yes	Stands as original value	Stands as original value	.C, question should be skipped	F B
8	2: no or missing response	0-10	Missing response	1-3	1: yes	Stands as original value	Stands as original value	Stands as original value	B
9	2: no or missing response	0-10	Missing response	Missing response	1: yes	Stands as original value	Stands as original value	Stands as original value	B
10	2: no	Missing response	1: yes	1-3	Stands as original value	.N, valid skip if missing	.C, question should be skipped	Stands as original value	F
11	2: no	-6: Don't have a personal Dr	Any value	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	Stands as original value	B F

Coding Table for Note 2 continued:

N2	H06008 is:	H06009 is:	H06010 is:	H06011 is:	H06008 is coded as:	H06009 is coded as:	H06010 is coded as:	H06011 is coded as:	*
12	2: no or missing response	Any value	1: yes	Any value	1: yes	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	B F
13	2: no or missing response	Any value	2: no	Any value	1: yes	Stands as original value	Stands as original value	Stands as original value	B
14	2: no	Missing response	Missing response	Any value	Stands as original value	.N, valid skip if missing	.N, valid skip	Stands as original value	F
15	Missing response	Missing response	Missing response	Any value	Stands as original 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 3:
H06012, H06013**

N3	H06012 is:	H06013 is:	H06012 is coded as:	H06013 is coded as:	*
1	1: yes	1, 2, 3, or missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't need to see a specialist	2: No	.C question should be skipped	B F
3	2: no or missing response	1, 2, 3	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't need to see a specialist	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 4:
H06014, H06015**

N4	H06014 is:	H06015 is:	H06014 is coded as:	H06015 is coded as:	*
1	1: yes	0-10, or missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't need to see a specialist	2: No	.C question should be skipped	B F
3	2: no, or missing response	0-10	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't need to see a specialist	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 5:
H06016, H06017**

N5	H06016 is:	H06017 is:	H06016 is coded as:	H06017 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: no calls	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: no calls or missing	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 6:
H06018, H06019, H06020**

N6	H06018 is:	H06019-H06020 are:	H06018 is coded as:	H06019-H06020 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value otherwise	
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, stands as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stands 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, stands 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	“One marked, and one NA”	2: no	.C, question should be skipped if marked	B F
9	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 6:
Responses to H06019-H06020 are all missing.

Definition of “Blank or NA” in Coding Table for Note 6:
All of the following are true: H06019-H06020 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 6:
H06019-H06020 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 6:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 7:
H06021, H06022, H06023**

N7	H06021 is:	H06022-H06023 are:	H06021 is coded as:	H06022-H06023 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stands as original value otherwise	
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, stands as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stands 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, stands 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	“One marked, and one NA”	2: no	.C, question should be skipped if marked	B F
9	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 7:
Responses to H06022-H06023 are all missing.

Definition of “Blank or NA” in Coding Table for Note 7:
All of the following are true: H06022-H06023 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 7:
H06022-H06023 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 8:
H06025, H06026-H06037**

N8	H06025 is:	H06026-H06037 are:	H06025 is coded as:	H06026-H06037 are coded as:	*
1	1: None	At least one is “marked”, “All are blank”, or “blank or NA”	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, stands 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, stands as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 8:
Responses to H06026-H06037 are all missing.

Definition of “Blank or NA” in Coding Table for Note 8:
All of the following are true: H06026-H06037 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 8:
Any pattern of marks outside the definitions “all are blank” and “Blank or NA.”

**Coding Table for Note 9:
H06026, H06027**

N9	H06026 is:	H06027 is:	H06026 is coded as:	H06027 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	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
3	1: yes, missing response	-6: No visits	2: no	.C, question should be skipped	B F
4	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
5	2: no	-6: No visits or missing response	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 10:
H06028, H06029**

N10	H06028 is:	H06029 is:	H06028 is coded as:	H06029 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	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
3	1: yes, missing response	-6: No visits	2: no	.C, question should be skipped	B F
4	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
5	2: no	-6: No visits or missing	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 10A:
S06V01, S06V02, S06V05-S06V18G**

N10A	S06V01 is:	S06V02, S06V05-S06V18G are:	S06V01 is coded as:	S06V02, S06V05-S06V18G are coded as:	*
1	1,2,3,4: some or no healthcare	“All are blank” or at least one is “marked”	Stands as original value	Stand as original value	
2	1,2,3: at least some healthcare or missing response	“Blank or NA”	-6: didn’t need healthcare in past 12 months	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	4: no healthcare	“Blank or NA”	Stands as original value	Stands as original value	
4	-6: didn’t need healthcare in past 12 months	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Any value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 10A:
S06V02, S06V05-S06V18G are all missing or unmarked.

Definition of “blank or NA” in Coding Table for Note 10A:
S06V02, S06V05-S06V18G are either not applicable (-6), or a combination of not applicable (-6) and missing or unmarked.

Definition of “marked” in Coding Table for Note 10A:
Any pattern of marks outside the definitions “all are blank” or “blank or NA.”

**Coding Table for Note 10B:
S06V06, S06V11A-S06V11H**

N10B	S06V06 is:	S06V11A-S06V11H are:	S06V06 is coded as:	S06V11A-S06V11H 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	3: no problem, -6: didn’t try to find Dr	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
3	1-2: problem	Any value	Stands as original value	Stands as original value	
4	Missing response	At least one is “Marked”	Stands as original value	Stand as original value	
5	Missing response	All are blank	Stands as original value	., if “Not marked”	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 10B:
Responses to S06V11A-S06V11H are all unmarked.

Definition of “marked” in Coding Table for Note 10B:
Any pattern of marks outside the definitions “all are blank.”

**Coding Table for Note 10C:
S06V07, S06V12A-S06V12G**

N10C	S06V07 is:	S06V12A-S06V12G are:	S06V06 is coded as:	S06V12A-S06V12G 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	3: no problem, -6: didn't try to find Dr	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
3	1-2: problem	Any value	Stands as original value	Stands as original value	
4	Missing response	At least one is "Marked"	Stands as original value	Stand as original value	
5	Missing response	All are blank	Stands as original value	., if "Not marked"	F

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10C:
Responses to S06V12A-S06V12H are all unmarked.

Definition of "marked" in Coding Table for Note 10C:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 10D:
S06V08, S06V09-S06V10, S06V13-S06V18G**

N10D	S06V08 is:	S06V09-S04V18G are:	S06V08 is coded as:	S06V09-S06V18G 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: yes, -5: don't know, 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 10E:
S06V13, S06V14A-S06V14H**

N10E	S06V13 is:	S06V14A-S06V14H are:	S06V06 is coded as:	S06V14A-S06V14H 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	3: no problem, -6: didn't try to find Dr	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
3	1-2: problem	Any value	Stands as original value	Stands as original value	
4	Missing response	At least one is "Marked"	Stands as original value	Stand as original value	
5	Missing response	All are blank	Stands as original value	., if "Not marked"	F

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10E:
Responses to S06V14A-S06V14H are all unmarked.

Definition of "marked" in Coding Table for Note 10E:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 10F:
S06V15, S06V16, S06V17, S06V18A-S06V18G**

N10F	S06V15 is:	S06V16, S06V17, S06V18A-S06V18G are:	S06V15 is coded as:	S06V16, S06V17, S06V18A-S06V18G 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: yes	Any value	Stands as original value	Stands as original value	
3	2: no, -5: Don't know	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
4	Missing response	At least one is "Marked"	1: yes	Stands as original value	B
5	Missing response	All are blank	Stands as original value	., if "Not marked"; 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 10F:
Responses to S06V16, S06V17, S06V18A-S06V18G are all missing or unmarked.

Definition of "marked" in Coding Table for Note 10F:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 10G:
S06V17, S06V18A-S06V18G**

N10G	S06V17 is:	S06V18A-S06V18G are:	S06V17 is coded as:	S06V18A-S06V18G 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	3: no problem	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
3	1-2: problem	Any value	Stands as original value	Stands as original value	
4	Missing response	At least one is "Marked"	Stands as original value	Stand as original value	
5	Missing response	None are "marked"	Stands as original value	., if "Not marked"	F

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10G:
Responses to S06V18A-S06V18G are all unmarked.

Definition of "marked" in Coding Table for Note 10G:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 13:
H06039, H06040-H06041**

N13	H06039 is:	H06040-H06041 are:	H06039 is coded as:	H06040-H06041 are coded as:	*
1	1: yes	At least one is “marked”, “all are blank” or “blank or don’t know”	Stands as original value	Stand as original value ., missing if -6	F
2	1: yes, -5: don’t know, missing	“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, missing	At least one is “marked” or “blank or don’t know”	1: yes	., missing if -6, stands as original value otherwise	B F
4	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
5	-5: don’t know	“All are blank”	Stands as original value	.N, valid skip if missing	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 13:
Responses to H06040-H06041 are all missing.

Definition of “blank or NA” in Coding Table for Note 13:
Responses to H06040-H06041 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 13:
Responses to H06040-H06041 are either all don’t know (-5) or a combination of missing and don’t know (-5).

Definition of “marked” in Coding Table for Note 13:
Any pattern of marks outside the definitions “all are blank,” “blank or NA,” or “blank or don’t know.”

**Table for Note 14:
H06042, H06043**

N14	H06042 is:	H06043 is:	H06042 is coded as:	H06043 is coded as:	*
1	1: yes	1, 2, 3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't look for information in health plan	2: No	.C question should be skipped	B F
3	2: no, or missing response	1, 2, 3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't look for information in health plan	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 15:
H06044, H06045**

N15	H06044 is:	H06045 is:	H06044 is coded as:	H06045 is coded as:	*
1	1: yes	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, missing response	-6: didn't call health plan	2: No	.C question should be skipped	B F
3	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't call health plan	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:
H06046, H06047**

N16	H06046 is:	H06047 is:	H06046 is coded as:	H06047 is coded as:	*
1	1: yes	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't have any experience	2: No	.C question should be skipped	B F
3	2: no, or missing response	1-3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't have any experience	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 16G:
S06Q01, S06Q02**

N16G	S06Q01 is:	S06Q02 is:	S06Q01 is coded as:	S06Q02 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	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, -6: never had a blood stool, 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 16H:
S06Q03, S06Q04-S06Q05**

N16H	S06Q03 is:	S06Q04-S06Q05 are:	S06Q03 is coded as:	S06Q04-S06Q05 are coded as:	*
1	1: yes	At least one is "marked", "all are blank" or "blank or don't know"	Stands as original value	Stand as original value ., missing if -6	F
2	1: yes, -5: don't know, missing	"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, missing	At least one is "marked" or "blank or don't know"	1: yes	., missing if -6, stands as original value otherwise	B F
4	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
5	-5: don't know	"All are blank"	Stands as original value	.N, valid skip if missing	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 16H:

Responses to S06Q04-S06Q05 are all missing.

Definition of "blank or NA" in Coding Table for Note 16H:

Responses to S06Q04-S06Q05 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 16H:

Responses to S06Q04-S06Q05 are either all don't know (-5) or a combination of missing and don't know (-5).

Definition of "marked" in Coding Table for Note 16H:

Any pattern of marks outside the definitions "all are blank," "blank or NA," or "blank or don't know."

**Coding Table for Note 17:
H06052--H06057**

N17	H06052 is:	H06053 is:	H06054 is:	H06055- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055- H06057 are coded as:	*
1	1: ever smoked	3 or 4: still smoke	Any value	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	Stand as original value	F
2	1: ever smoked	2: quit	2: quit >1 year ago or -5: don't know	Any value	Stands as original 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	2: quit	3: quit <1 year ago, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
4	1: ever smoked	-5: don't know, missing response	2: quit >1 year ago	Any value	Stands as original value	2: quit	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	F B
5	1: ever smoked	-5: don't know, missing response	3: quit <1 year ago	Any value	Stands as original value	2: quit	Stands as original value	Stand as original value	B
6	1: ever smoked	-5: don't know	-5: don't know, missing response	Any value	Stands as original 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
7	1: ever smoked	Missing response	-5: don't know	Any value	Stands as original 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 17 continued:

N17	H06052 is:	H06053 is:	H06054 is:	H06055- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055- H06057 are coded as:	*
8	1: ever smoked	Missing response	Missing response	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
9	2: never, -5: don't know, missing response	3 or 4: still smoke	Any value	Any value	1: ever smoked	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	Stand as original value	B F
10	2: never or -5: don't know	2: quit, -5: don't know, or missing response	Any value	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	.C, question should be skipped if marked, .N, valid skip if missing	F
11	Missing response	2: quit	Missing response	2-5: some visits	1: ever smoked	Stands as original value	3: quit <1 year ago	Stand as original value	B
12	Missing response	2: quit, missing response	2: quit >1 year ago, -5: don't know	Any value	Stands as original value	Stands as original value	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	F
13	Missing response	2: quit, missing response	3: quit <1 year ago, missing response	2-5: some visits	1: ever smoked	Stands as original value	Stands as original value	Stand as original value	B
14	Missing response	2: quit, missing response	3: quit <1 year ago, missing response	1: none, -6: no visits, missing response	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
15	Missing response	-5: don't know	Any value	Any value	Stands as original 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

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 18:

Note 18 (Part a)

H06058, SEX, XSEXA, H06059-H06065

N18A	H06058 is :	SEX is:	H06059--H06065 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 (H06058), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 18 (Part B):

XSEXA, H06059 - H06065

N18B	XSEXA is:	H06059--H06065 are:	H06059--H06065 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”	Stands 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 18b:

All variables H06059--H06065 are missing.

Definition of “marked” in Coding Table for Note 18b:

Any pattern of marks outside the definition “all are blank.”

Coding Table for Note 19
XSEXA, AGE, H06060, H06061

	XSEXA N19 is:	AGE is:	H06060 is:	H06061 is:	H06060 is coded as:	H06061 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	Marked, missing response	Stands as original value	Stand as original value	
3	2: Female	Any value	1: under 40	Marked, missing response	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	1: < 40	.N, valid skip	F 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 20:
XSEXA, H06063, H06064, H06065**

N20	XSEXA is:	H06063 is:	H06064 is:	H06065 is:	H06063 is coded as:	H06064 is coded as:	H06065 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 20 continued:

N20	XSEXA is:	H06063 is:	H06064 is:	H06065 is:	H06063 is coded as:	H06064 is coded as:	H06065 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	1: pregnant now	Stands as original value	Stands as original value	B
11	2: Female	Missing response	3: third trimester, missing response	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 SCHEME AND CODING TABLES – QUARTER III

FY 2006 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:
H06006, H06007**

N1	H06006 is:	H06007 is:	H06006 is coded as:	H06007 is coded as:	*
1	1-11, 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:
H06008, H06009, H06010, H06011**

N2	H06008 is:	H06009 is:	H06010 is:	H06011 is:	H06008 is coded as:	H06009 is coded as:	H06010 is coded as:	H06011 is coded as:	*
1	1: yes or missing response	-6: Don't have a personal Dr	Any value	Any value	2: no	.C, question should be skipped	.N, valid skip if missing; .C, question should be skipped, if marked	Stands as original value	B F
2	1: yes	0-10 or missing response	1: yes	1-3	Stands as original value	Stands as original value	Stands as original value	.C, question should be skipped	F
3	1: yes	0-10 or missing response	Missing response	1-3	Stands as original value	Stands as original value	2: no	Stands as original value	B
4	1: yes	0-10 or missing response	1: yes	Missing response	Stands as original value	Stands as original value	Stands as original value	.N, valid skip if missing	F
5	1: yes	0-10 or missing response	2: no	Any value	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
6	1: yes	0-10 or missing response	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
7	2: no or missing response	0-10	1: yes	1-3	1: yes	Stands as original value	Stands as original value	.C, question should be skipped	F B
8	2: no or missing response	0-10	Missing response	1-3	1: yes	Stands as original value	Stands as original value	Stands as original value	B
9	2: no or missing response	0-10	Missing response	Missing response	1: yes	Stands as original value	Stands as original value	Stands as original value	B
10	2: no	Missing response	1: yes	1-3	Stands as original value	.N, valid skip if missing	.C, question should be skipped	Stands as original value	F
11	2: no	-6: Don't have a personal Dr	Any value	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	Stands as original value	B F

Coding Table for Note 2 continued:

N2	H06008 is:	H06009 is:	H06010 is:	H06011 is:	H06008 is coded as:	H06009 is coded as:	H06010 is coded as:	H06011 is coded as:	*
12	2: no or missing response	Any value	1: yes	Any value	1: yes	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	B F
13	2: no or missing response	Any value	2: no	Any value	1: yes	Stands as original value	Stands as original value	Stands as original value	B
14	2: no	Missing response	Missing response	Any value	Stands as original value	.N, valid skip if missing	.N, valid skip	Stands as original value	F
15	Missing response	Missing response	Missing response	Any value	Stands as original 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 3:
H06012, H06013**

N3	H06012 is:	H06013 is:	H06012 is coded as:	H06013 is coded as:	*
1	1: yes	1, 2, 3, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need to see a specialist	2: No	.C question should be skipped	B F
3	2: no or missing response	1, 2, 3	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't need to see a specialist	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 4:
H06014, H06015**

N4	H06014 is:	H06015 is:	H06014 is coded as:	H06015 is coded as:	*
1	1: yes	0-10, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need to see a specialist	2: No	.C question should be skipped	B F
3	2: no or missing response	0-10	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't need to see a specialist	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 5:
H06016, H06017**

N5	H06016 is:	H06017 is:	H06016 is coded as:	H06017 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: no calls	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: no calls or missing	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 6:
H06018, H06019, H06020**

N6	H06018 is:	H06019-H06020 are:	H06018 is coded as:	H06019-H06020 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value otherwise	
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, stands as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stands 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, stands 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	“One marked, and one NA”	2: no	.C, question should be skipped if marked	B F
9	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 6:
Responses to H06019-H06020 are all missing.

Definition of “Blank or NA” in Coding Table for Note 6:
All of the following are true: H06019-H06020 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 6:
H06019-H06020 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 6:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 7:
H06021, H06022, H06023**

N7	H06021 is:	H06022-H06023 are:	H06021 is coded as:	H06022-H06023 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stands as original value otherwise	
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, stands as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stands 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, stands 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	“One marked, and one NA”	2: no	.C, question should be skipped if marked	B F
9	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 7:
Responses to H06022-H06023 are all missing.

Definition of “Blank or NA” in Coding Table for Note 7:
All of the following are true: H06022-H06023 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 7:
H06022-H06023 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 8:
H06025, H06026-H06037**

N8	H06025 is:	H06026-H06037 are:	H06025 is coded as:	H06026-H06037 are coded as:	*
1	1: None	At least one is “marked”, “all are blank”, or “blank or NA”	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, stands 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, stands as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 8:
Responses to H06026-H06037 are all missing.

Definition of “blank or NA” in Coding Table for Note 8:
All of the following are true: H06026-H06037 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 8:
Any pattern of marks outside the definitions “all are blank” and “Blank or NA.”

**Coding Table for Note 9:
H06026, H06027**

N9	H06026 is:	H06027 is:	H06026 is coded as:	H06027 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	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
3	1: yes, missing response	-6: No visits	2: no	.C, question should be skipped	B F
4	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
5	2: no	-6: No visits or missing response	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 10:
H06028, H06029**

N10	H06028 is:	H06029 is:	H06028 is coded as:	H06029 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	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
3	1: yes, missing response	-6: No visits	2: no	.C, question should be skipped	B F
4	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
5	2: no	-6: No visits or missing	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 10AA:
S06B02, S06B03, S06B04**

N10AA	S06B02 is:	S06B03 & S06B04 are:	S06B02 is coded as:	S06B03 & S06B04 are coded as:	*
1	1: yes	At least one is “marked” or “all are blank”	Stands as original value	Stand as original value	
2	2: no or missing response	At least one is “marked”	1: yes	Stand as original value	B
3	2: no	“All are blank”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	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 10AA:
Responses to S06B03 and S06B04 are both missing.

Definition of “marked” in Coding Table for Note 10AA:
Any pattern of marks outside the definitions “all are blank”

**Coding Table for Note 10A:
S06V01, S06V02, S06V05-S06V18G**

N10A	S06V01 is:	S06V02, S06V05- S06V18G are:	S06V01 is coded as:	S06V02, S06V05-S06V18G are coded as:	*
1	1,2,3,4: some or no healthcare	“All are blank” or at least one is “marked”	Stands as original value	Stand as original value	
2	1,2,3: at least some healthcare or missing response	“Blank or NA”	-6: didn’t need healthcare in past 12 months	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	4: no healthcare	“Blank or NA”	Stands as original value	Stands as original value	
4	-6: didn’t need healthcare in past 12 months	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Any value	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 10A:
S06V02, S06V05-S06V18G are all missing or unmarked.

Definition of “blank or NA” in Coding Table for Note 10A:
S06V02, S06V05-S06V18G are either not applicable (-6), or a combination of not applicable (-6) and missing or unmarked.

Definition of “marked” in Coding Table for Note 10A:
Any pattern of marks outside the definitions “all are blank” or “blank or NA.”

**Coding Table for Note 10B:
S06V06, S06V11A-S06V11H**

N10B	S06V06 is:	S06V11A-S06V11H are:	S06V06 is coded as:	S06V11A-S06V11H 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	3: no problem, -6: didn’t try to find Dr	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
3	1-2: problem	Any value	Stands as original value	Stands as original value	
4	Missing response	At least one is “Marked”	Stands as original value	Stand as original value	
5	Missing response	“All are blank”	Stands as original value	., if “Not marked”	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 10B:
Responses to S06V11A-S06V11H are all unmarked.

Definition of “marked” in Coding Table for Note 10B:
Any pattern of marks outside the definitions “all are blank.”

**Coding Table for Note 10C:
S06V07, S06V12A-S06V12G**

N10C	S06V07 is:	S06V12A-S06V12G are:	S06V06 is coded as:	S06V12A-S06V12G 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	3: no problem, -6: didn't try to find Dr	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
3	1-2: problem	Any value	Stands as original value	Stands as original value	
4	Missing response	At least one is "Marked"	Stands as original value	Stand as original value	
5	Missing response	"All are blank"	Stands as original value	., if "Not marked"	F

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10C:
Responses to S06V12A-S06V12H are all unmarked.

Definition of "marked" in Coding Table for Note 10C:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 10D:
S06V08, S06V09-S06V10, S06V13-S06V18G**

N10D	S06V08 is:	S06V09-S04V18G are:	S06V08 is coded as:	S06V09-S06V18G 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: yes, -5: don't know, 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 10E:
S06V13, S06V14A-S06V14H**

N10E	S06V13 is:	S06V14A-S06V14H are:	S06V06 is coded as:	S06V14A-S06V14H 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	3: no problem, -6: didn't try to find Dr	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
3	1-2: problem	Any value	Stands as original value	Stands as original value	
4	Missing response	At least one is "Marked"	Stands as original value	Stand as original value	
5	Missing response	"All are blank"	Stands as original value	., if "Not marked"	F

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10E:
Responses to S06V14A-S06V14H are all unmarked.

Definition of "marked" in Coding Table for Note 10E:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 10F:
S06V15, S06V16, S06V17, S06V18A-S06V18G**

N10F	S06V15 is:	S06V16, S06V17, S06V18A-S06V18G are:	S06V15 is coded as:	S06V16, S06V17, S06V18A- S06V18G 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: yes	Any value	Stands as original value	Stands as original value	
3	2: no, -5: Don't know	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
4	Missing response	At least one is "Marked"	1: yes	Stands as original value	B
5	Missing response	"All are blank"	Stands as original value	., if "Not marked"; 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 10F:
Responses to S06V16, S06V17, S06V18A-S06V18G are all missing or unmarked.

Definition of "marked" in Coding Table for Note 10F:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 10G:
S06V17, S06V18A-S06V18G**

N10G	S06V17 is:	S06V18A-S06V18G are:	S06V17 is coded as:	S06V18A-S06V18G 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	3: no problem	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	F
3	1-2: problem	Any value	Stands as original value	Stands as original value	
4	Missing response	At least one is "Marked"	Stands as original value	Stand as original value	
5	Missing response	"All are blank"	Stands as original value	., if "Not marked"	F

* Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10G:
Responses to S06V18A-S06V18G are all unmarked.

Definition of "marked" in Coding Table for Note 10G:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 13:
H06039, H06040-H06041**

N13	H06039 is:	H06040-H06041 are:	H06039 is coded as:	H06040-H06041 are coded as:	*
1	1: yes	At least one is "marked", "all are blank" or "blank or don't know"	Stands as original value	Stand as original value ., missing if -6	F
2	1: yes, -5: don't know, missing	"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, missing	At least one is "marked" or "blank or don't know"	1: yes	., missing if -6, stands as original value otherwise	B F
4	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
5	-5: don't know	"All are blank"	Stands as original value	.N, valid skip if missing	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 13:
Responses to H06040-H06041 are all missing.

Definition of "blank or NA" in Coding Table for Note 13:
Responses to H06040-H06041 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 13:
Responses to H06040-H06041 are either all don't know (-5) or a combination of missing and don't know (-5).

Definition of "marked" in Coding Table for Note 13:
Any pattern of marks outside the definitions "all are blank," "blank or NA," or "blank or don't know."

**Table for Note 14:
H06042, H06043**

N14	H06042 is:	H06043 is:	H06042 is coded as:	H06043 is coded as:	*
1	1: yes	1, 2, 3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn't look for information in health plan	2: No	.C question should be skipped	B F
3	2: no, or missing response	1, 2, 3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't look for information in health plan	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 15:
H06044, H06045**

N15	H06044 is:	H06045 is:	H06044 is coded as:	H06045 is coded as:	*
1	1: yes	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, missing response	-6: didn't call health plan	2: No	.C question should be skipped	B F
3	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't call health plan	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:
H06046, H06047**

N16	H06046 is:	H06047 is:	H06046 is coded as:	H06047 is coded as:	*
1	1: yes	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't have any experience	2: No	.C question should be skipped	B F
3	2: no or missing response	1-3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't have any experience	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 17:
H06052--H06057**

N17	H06052 is:	H06053 is:	H06054 is:	H06055- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055- H06057 are coded as:	*
1	1: ever smoked	3 or 4: still smoke	Any value	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	Stand as original value	F
2	1: ever smoked	2: quit	2: quit >1 year ago or -5: don't know	Any value	Stands as original 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	2: quit	3: quit <1 year ago, missing response	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
4	1: ever smoked	-5: don't know, missing response	2: quit >1 year ago	Any value	Stands as original value	2: quit	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	F B
5	1: ever smoked	-5: don't know, missing response	3: quit <1 year ago	Any value	Stands as original value	2: quit	Stands as original value	Stand as original value	B
6	1: ever smoked	-5: don't know	-5: don't know, missing response	Any value	Stands as original 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
7	1: ever smoked	Missing response	-5: don't know	Any value	Stands as original 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 17 continued:

N17	H06052 is:	H06053 is:	H06054 is:	H06055- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055- H06057 are coded as:	*
8	1: ever smoked	Missing response	Missing response	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
9	2: never, -5: don't know, missing response	3 or 4: still smoke	Any value	Any value	1: ever smoked	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	Stand as original value	B F
10	2: never or -5: don't know	2: quit, -5: don't know, or missing response	Any value	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	.C, question should be skipped if marked, .N, valid skip if missing	F
11	Missing response	2: quit	Missing response	2-5: some visits	1: ever smoked	Stands as original value	3: quit <1 year ago	Stand as original value	B
12	Missing response	2: quit, missing response	2: quit >1 year ago, -5: don't know	Any value	Stands as original value	Stands as original value	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	F
13	Missing response	2: quit, missing response	3: quit <1 year ago, missing response	2-5: some visits	1: ever smoked	Stands as original value	Stands as original value	Stand as original value	B
14	Missing response	2: quit, missing response	3: quit <1 year ago, missing response	1: none, -6: no visits, missing response	Stands as original value	Stands as original value	Stands as original value	Stand as original value	
15	Missing response	-5: don't know	Any value	Any value	Stands as original 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

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 18:

Note 18 (Part a)

H06058, SEX, XSEXA, H06059-H06065

N18A	H06058 is :	SEX is:	H06059--H06065 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 (H06058), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 18 (Part B):

XSEXA, H06059 - H06065

N18B	XSEXA is:	H06059--H06065 are:	H06059--H06065 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”	Stands 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 18b:
All variables H06059--H06065 are missing.

Definition of “marked” in Coding Table for Note 18b:
Any pattern of marks outside the definition “all are blank.”

Coding Table for Note 19
XSEXA, AGE, H06060, H06061

	XSEXA N19 is:	AGE is:	H06060 is:	H06061 is:	H06060 is coded as:	H06061 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	Marked, missing response	Stands as original value	Stand as original value	
3	2: Female	Any value	1: under 40	Marked, missing response	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	1: < 40	.N, valid skip	F 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 20:
XSEXA, H06063, H06064, H06065**

N20	XSEXA is:	H06063 is:	H06064 is:	H06065 is:	H06063 is coded as:	H06064 is coded as:	H06065 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 20 continued:

N20	XSEXA is:	H06063 is:	H06064 is:	H06065 is:	H06063 is coded as:	H06064 is coded as:	H06065 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	1: pregnant now	Stands as original value	Stands as original value	B
11	2: Female	Missing response	3: third trimester, missing response	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 SCHEME AND CODING TABLES – QUARTER IV

FY 2006 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:
H06006, H06007**

N1	H06006 is:	H06007 is:	H06006 is coded as:	H06007 is coded as:	*
1	1-12, 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:
H06008, H06009, H06010, H06011**

N2	H06008 is:	H06009 is:	H06010 is:	H06011 is:	H06008 is coded as:	H06009 is coded as:	H06010 is coded as:	H06011 is coded as:	*
1	1: yes or missing response	-6: Don't have a personal Dr	Any value	Any value	2: no	.C, question should be skipped	.N, valid skip if missing; .C, question should be skipped, if marked	Stands as original value	B F
2	1: yes	0-10 or missing response	1: yes	1-3	Stands as original value	Stands as original value	Stands as original value	.C, question should be skipped	F
3	1: yes	0-10 or missing response	Missing response	1-3	Stands as original value	Stands as original value	2: no	Stands as original value	B
4	1: yes	0-10 or missing response	1: yes	Missing response	Stands as original value	Stands as original value	Stands as original value	.N, valid skip if missing	F
5	1: yes	0-10 or missing response	2: no	Any value	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
6	1: yes	0-10 or missing response	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
7	2: no or missing response	0-10	1: yes	1-3	1: yes	Stands as original value	Stands as original value	.C, question should be skipped	F B
8	2: no or missing response	0-10	Missing response	1-3	1: yes	Stands as original value	Stands as original value	Stands as original value	B
9	2: no or missing response	0-10	Missing response	Missing response	1: yes	Stands as original value	Stands as original value	Stands as original value	B
10	2: no	Missing response	1: yes	1-3	Stands as original value	.N, valid skip if missing	.C, question should be skipped	Stands as original value	F
11	2: no	-6: Don't have a personal Dr	Any value	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	Stands as original value	B F

Coding Table for Note 2 continued:

N2	H06008 is:	H06009 is:	H06010 is:	H06011 is:	H06008 is coded as:	H06009 is coded as:	H06010 is coded as:	H06011 is coded as:	*
12	2: no or missing response	Any value	1: yes	Any value	1: yes	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	B F
13	2: no or missing response	Any value	2: no	Any value	1: yes	Stands as original value	Stands as original value	Stands as original value	B
14	2: no	Missing response	Missing response	Any value	Stands as original value	.N, valid skip if missing	.N, valid skip	Stands as original value	F
15	Missing response	Missing response	Missing response	Any value	Stands as original 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 3:
H06012, H06013**

N3	H06012 is:	H06013 is:	H06012 is coded as:	H06013 is coded as:	*
1	1: yes	1, 2, 3, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need to see a specialist	2: No	.C question should be skipped	B F
3	2: no or missing response	1, 2, 3	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't need to see a specialist	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 4:
H06014, H06015**

N4	H06014 is:	H06015 is:	H06014 is coded as:	H06015 is coded as:	*
1	1: yes	0-10, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't need to see a specialist	2: No	.C question should be skipped	B F
3	2: no or missing response	0-10	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't need to see a specialist	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 5:
H06016, H06017**

N5	H06016 is:	H06017 is:	H06016 is coded as:	H06017 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: no calls	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: no calls or missing	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 6:
H06018, H06019, H06020**

N6	H06018 is:	H06019-H06020 are:	H06018 is coded as:	H06019-H06020 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value otherwise	
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, stands as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stands 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, stands 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	“One marked, and one NA”	2: no	.C, question should be skipped if marked	B F
9	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 6:
Responses to H06019-H06020 are all missing.

Definition of “Blank or NA” in Coding Table for Note 6:
All of the following are true: H06019-H06020 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 6:
H06019-H06020 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 6:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 7:
H06021, H06022, H06023**

N7	H06021 is:	H06022-H06023 are:	H06021 is coded as:	H06022-H06023 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stands as original value otherwise	
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, stands as original value otherwise	F
4	1: yes	At least one is “marked”	Stands as original value	Stands 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, stands 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	“One marked, and one NA”	2: no	.C, question should be skipped if marked	B F
9	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 7:
Responses to H06022-H06023 are all missing.

Definition of “Blank or NA” in Coding Table for Note 7:
All of the following are true: H06022-H06023 are a combination of not applicable (-6) or missing.

Definition of “One marked and one NA” in Coding Table for Note 7:
H06022-H06023 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks outside the definitions “all are blank”, “One marked and one NA”, and “Blank or NA.”

**Coding Table for Note 8:
H06025, H06026-H06037**

N8	H06025 is:	H06026-H06037 are:	H06025 is coded as:	H06026-H06037 are coded as:	*
1	1: None	At least one is “marked”, “all are blank”, or “blank or NA”	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, stands 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, stands as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 8:
Responses to H06026-H06037 are all missing.

Definition of “blank or NA” in Coding Table for Note 8:
All of the following are true: H06026-H06037 are a combination of not applicable (-6) or missing.

Definition of “marked” in Coding Table for Note 8:
Any pattern of marks outside the definitions “all are blank” and “Blank or NA.”

**Coding Table for Note 9:
H06026, H06027**

N9	H06026 is:	H06027 is:	H06026 is coded as:	H06027 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	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
3	1: yes, missing response	-6: No visits	2: no	.C, question should be skipped	B F
4	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
5	2: no	-6: No visits or missing response	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 10:
H06028, H06029**

N10	H06028 is:	H06029 is:	H06028 is coded as:	H06029 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	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
3	1: yes, missing response	-6: No visits	2: no	.C, question should be skipped	B F
4	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
5	2: no	-6: No visits or missing	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 10H:

**S06Y01, S06Y26A-S06Y26D S06Y27A-S06Y27D S06Y28A-S06Y28C S06Y29A-S06Y29C S06Y30A-S06Y30D
S06Y06A-S06Y06J S06Y19A-S06Y19F S06Y19I-S06Y19J S06Y17 S06Y18A-S06Y18D S06Y31 S06Y32A-
S06Y32C S06Y33 S06Y34A-S06Y34J S06Y36A-S06Y36I S06Y35 S06Y37A-S06Y37N S06Y22 S06Y23 S06Y24**

N10H	S06Y01 is:	S06Y26A-S06Y26D S06Y27A-S06Y27D S06Y28A-S06Y28C S06Y29A-S06Y29C S06Y30A-S06Y30D S06Y06A-S06Y06J S06Y19A-S06Y19F S06Y19I-S06Y19J S06Y17 S06Y18A- S06Y18D S06Y31 S06Y32A-S06Y32C S06Y33 S06Y34A- S06Y34J S06Y36A- S06Y36I S06Y35 S06Y37A-S06Y37N S06Y22 S06Y23 S06Y24 are:	S06Y01 is coded as:	S06Y26A-S06Y26D S06Y27A-S06Y27D S06Y28A-S06Y28C S06Y29A- S06Y29C S06Y30A-S06Y30D S06Y06A-S06Y06J S06Y19A- S06Y19F S06Y19I-S06Y19J S06Y17 S06Y18A-S06Y18D S06Y31 S06Y32A-S06Y32C S06Y33 S06Y34A-S06Y34J S06Y36A-S06Y36I S06Y35 S06Y37A-S06Y37N S06Y22 S06Y23 S06Y24 are coded as:	*
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1	2: No	Any value	Stands as original value	.N, valid skip if missing/unmarked, .C, question should be skipped if marked	F
2	1: Yes, or missing response	“Blank or NA”	2: No	.N, valid skip if missing/unmarked; .C, question should be skipped if marked	B F
3	1: Yes	At least one is “marked” or “All are missing/unmarked”	Stands as original value	Stands as original value	
4	Missing response	At least one is “marked”	Stands as original value	Stand as original value	
5	Missing response	At least one is “Not marked”	Stands as original value	. if “Not marked”; Stand as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “All are missing/unmarked” in Coding Table for Note 10H:

Responses to S06Y26A-S06Y26D S06Y27A-S06Y27D S06Y28A-S06Y28C S06Y29A-S06Y29C S06Y30A-S06Y30D S06Y06A-S06Y06J S06Y19A-S06Y19F S06Y19I-S06Y19J S06Y17 S06Y18A-S06Y18D S06Y31 S06Y32A-S06Y32C S06Y33 S06Y34A-S06Y34J S06Y36A-S06Y36I S06Y35 S06Y37A-S06Y37N S06Y22 S06Y23 S06Y24 are all missing/unmarked.

Definition of “Blank or NA” in Coding Table for Note 10H:

All of the following are true: S06Y26A-S06Y26D S06Y27A-S06Y27D S06Y28A-S06Y28C S06Y29A-S06Y29C S06Y30A-S06Y30D S06Y06A-S06Y06J S06Y19A-S06Y19F S06Y19I-S06Y19J S06Y17 S06Y18A-S06Y18D S06Y31 S06Y32A-S06Y32C S06Y33 S06Y34A-S06Y34J S06Y36A-S06Y36I S06Y35 S06Y37A-S06Y37N S06Y22 S06Y23 S06Y24 are a combination of not applicable (-6) or missing/unmarked.

Definition of “marked” in Coding Table for Note 10H:

Any pattern of marks outside the definitions “All are missing/unmarked” and “Blank or NA.”

**Coding Table for Note 10I:
S06Y17, S06Y18A-S06Y18D**

N10I	S06Y17 is:	S06Y18A-S06Y18D are:	S06Y17 is coded as:	S06Y18A-S06Y18D 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	2: No	At least one is “marked” or “all unmarked”	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
3	1: Yes	At least one is “marked” or “All unmarked”	Stands as original value	Stands as original value	
4	Missing response	At least one is “Marked”	1: Yes	Stand as original value	B
5	Missing response	“All unmarked”	Stands as original value	., if “Not marked”	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all unmarked” in Coding Table for Note 10I:
Responses to S06Y18A-S06Y18D are all unmarked.

Definition of “marked” in Coding Table for Note 10I:
Any pattern of marks outside the definition “all unmarked.”

**Coding Table for Note 10J:
S06Y31, S06Y26C, S06Y27C, S06Y29B, S06Y30C, S06Y32A-S06Y32C**

N10J	S06Y31 is:	S06Y26C is:	S06Y27C, S06Y29B, S06Y30C are:	S06Y32A- S06Y32C are:	S06Y31 is coded as:	S06Y26C is coded as:	S06Y27C, S06Y29B, S06Y30C are coded as:	S06Y32A- S06Y32C are 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	.N, valid skip, or .C, question should be skipped	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
2	Any value	1,2,3: Filled new and/or old prescription	Any value	Any value	1: Yes	Stands as original value	Stands as original value	Stands as original value	B
3	2: No	Missing	Any value	Any value	Stands as original value	4: Filled no prescription	.N, valid skip	Stands as original value	F
4	2: No	1-5: Marked	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	1: Yes	Any value	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
6	Missing response	Any value	Any value	Any value	Stands as original value	Stand as original value	Stand as original value	Stand as original value	

* Indication of backward coding (B) or forward coding (F).

**Coding Table for Note 10K:
S06Y33, S06Y34A-S06Y34J**

N10K	S06Y33 is:	S06Y34A-S06Y34J are:	S06Y33 is coded as:	S06Y34A-S06Y34J 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	2: No	At least one is "marked" or "All are blank"	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
3	1: Yes	At least one is "marked" or "all are blank"	Stands as original value	Stands as original value	
4	Missing response	At least one is "marked" 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 10K:
Responses to S06Y34A-S06Y34J are all unmarked.

Definition of "marked" in Coding Table for Note 10K:
Any pattern of marks outside the definitions "all are blank."

**Coding Table for Note 10L:
S06Y35, S06Y26B, S06Y27B, S06Y30B, S06Y37A-S06Y37N, S06Y22-S06Y24**

N10L	S06Y35 is:	S06Y26B is:	S06Y27B,S 06Y30B are:	S06Y37A- S06Y37N are:	S06Y22- S06Y24 are:	S06Y35 is coded as:	S06Y26B is coded as:	S06Y27B, S06Y30B are coded as:	S06Y37A - S06Y37N are coded as:	S06Y22- S06Y24 are 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	.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	Stands as original value	Stands as original value	
2	Any value	1,2,3: Filled new and/or old prescrip- tion	Any value	Any value	Any value	1: Yes	Stands as original value	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	., missing if -6, stands as original value otherwise	B F
3	2: No	Missing	Any value	Any value	Any value	Stands as original value	4: Filled no prescrip- tion	.N, valid skip	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
4	2: No	1-5: Marked	At least one is “marked” or “all are blank”	At least one is “marked” or “all are blank”	Any value	Stands as original value	Stands as original value	Stands as original 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 10L continued:
S06Y35, S06Y26B, S06Y27B, S06Y30B, S06Y37A-S06Y37N, S06Y22-S06Y24**

N10L	S06Y35 is:	S06Y26B is:	S06Y27B, S06Y30B are:	S06Y37A-S06Y37N are:	S06Y22-S06Y24 are:	S06Y35 is coded as:	S06Y26B is coded as:	S06Y27B, S06Y30B are coded as:	S06Y37A - S06Y37N are coded as:	S06Y22-S06Y24 are coded as:	*
5	1: Yes	Any value	At least one is “marked” or “All are blank”	At least one is “marked” or “All are blank”	Any Value	Stands as original value	Stands as original value	Stand as original value	.N, valid skip if missing, .C, question should be skipped if marked	., missing if -6, stands as original value otherwise	F
6	Missing response	Any value	At least one is “marked” or “All are blank”	At least one is “marked” or “All are blank”	Any value	Stands as original value	Stand as original value	Stand as original value	Stand as original value	., missing if -6, stands as original value otherwise	F

* Indication of backward coding (B) or forward coding (F).

Definition of “all are blank” in Coding Table for Note 10L:
Responses to S06Y27B, S06Y30B, and S06Y37A-S06Y37N are all missing.

Definition of “marked” in Coding Table for Note 10L:
Any pattern of marks outside the definitions “all are blank.”

**Coding Table for Note 10M:
S06Y23, S06Y24**

N10M	S06Y23 is:	S06Y24 is:	S06Y23 is coded as:	S06Y24 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, 2, 3, or missing response	Stands as original value	Stands as original value	
3	1: yes, or missing response	-6: didn’t try to use the Express Scripts website	2: No	.C question should be skipped	B F
4	2: no or missing response	1, 2, 3	1: yes	Stands as original value	B
5	2: no	Missing, or -6: didn’t try to use the Express Scripts website	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 13:
H06039, H06040-H06041**

N13	H06039 is:	H06040-H06041 are:	H06039 is coded as:	H06040-H06041 are coded as:	*
1	1: yes	At least one is “marked”, “all are blank” or “blank or don’t know”	Stands as original value	Stand as original value ., missing if -6	F
2	1: yes, -5: don’t know, missing	“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, missing	At least one is “marked” or “blank or don’t know”	1: yes	., missing if -6, stands as original value otherwise	B F
4	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
5	-5: don’t know	“All are blank”	Stands as original value	.N, valid skip if missing	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 13:
Responses to H06040-H06041 are all missing.

Definition of “blank or NA” in Coding Table for Note 13:
Responses to H06040-H06041 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 13:
Responses to H06040-H06041 are either all don’t know (-5) or a combination of missing and don’t know (-5).

Definition of “marked” in Coding Table for Note 13:
Any pattern of marks outside the definitions “all are blank,” “blank or NA,” or “blank or don’t know.”

**Table for Note 14:
H06042, H06043**

N14	H06042 is:	H06043 is:	H06042 is coded as:	H06043 is coded as:	*
1	1: yes	1, 2, 3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, or missing response	-6: didn’t look for information in health plan	2: No	.C question should be skipped	B F
3	2: no, or missing response	1, 2, 3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn’t look for information in health plan	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 15:
H06044, H06045**

N15	H06044 is:	H06045 is:	H06044 is coded as:	H06045 is coded as:	*
1	1: yes	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes, missing response	-6: didn't call health plan	2: No	.C question should be skipped	B F
3	2: no, missing response	1-3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't call health plan	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:
H06046, H06047**

N16	H06046 is:	H06047 is:	H06046 is coded as:	H06047 is coded as:	*
1	1: yes	1-3: how much of a problem, missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: didn't have any experience	2: No	.C question should be skipped	B F
3	2: no or missing response	1-3: how much of a problem	1: yes	Stands as original value	B
4	2: no	Missing, or -6: didn't have any experience	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 17:
H06052--H06057**

N17	H06052 is:	H06053 is:	H06054 is:	H06055 is:	H06056- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055 is coded as:	H06056- H06057 are coded as:	*
1	1: ever smoked	3 or 4: still smoke	Any value	Any value	Any value	Stands as original value	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	Stand as original value	.N, if H06055=.N; Stand as original value otherwise	F
2	1: ever smoked	2: quit	2: quit >1 year ago or -5: don't know	Any value	Any value	Stands as original value	Stands as original 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
3	1: ever smoked	2: quit	3: quit <1 year ago, missing response	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	.N, if H06055=.N; Stand as original value otherwise	F
4	1: ever smoked	-5: don't know, missing response	2: quit >1 year ago	Any value	Any value	Stands as original value	2: quit	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 B
5	1: ever smoked	-5: don't know, missing response	3: quit <1 year ago	Any value	Any value	Stands as original value	2: quit	Stands as original value	Stand as original value	.N, if H06055=.N; Stand as original value otherwise	F B

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 17 continued:

N17	H06052 is:	H06053 is:	H06054 is:	H06055 is:	H06056- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055 is coded as:	H06056- H06057 are coded as:	*
6	1: ever smoked	-5: don't know	-5: don't know, missing response	Any value	Any value	Stands as original 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	.C, question should be skipped if marked, .N, valid skip if missing	F
7	1: ever smoked	Missing response	-5: don't know	Any value	Any value	Stands as original value	Stands as original 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
8	1: ever smoked	Missing response	Missing response	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	Stand as original value	.N, if H06055=.N; Stand as original value otherwise	F
9	2: never, -5: don't know, missing response	3 or 4: still smoke	Any value	Any value	Any value	1: ever smoked	Stands as original value	.C, question should be skipped if marked, .N, valid skip if missing	Stand as original value	.N, if H06055=.N; Stand as original value otherwise	B F
10	2: never or -5: don't know	2: quit, -5: don't know, or missing response	Any value	Any value	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	.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

* Indication of backward coding (B) or forward coding (F).

Coding Table for Note 17 continued:

N17	H06052 is:	H06053 is:	H06054 is:	H06055 is:	H06056- H06057 are:	H06052 is coded as:	H06053 is coded as:	H06054 is coded as:	H06055 is coded as:	H06056- H06057 are coded as:	*
11	Missing response	2: quit	Missing response	2-5: some visits	2-5: some visits	1: ever smoked	Stands as original value	3: quit <1 year ago	Stand as original value	Stand as original value	B
12	Missing response	2: quit, missing response	2: quit >1 year ago, -5: don't know	Any value	Any value	Stands as original value	Stands as original 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
13	Missing response	2: quit, missing response	3: quit <1 year ago, missing response	2-5: some visits	2-5: some visits	1: ever smoked	Stands as original value	Stands as original value	Stand as original value	Stand as original value	B
14	Missing response	2: quit, missing response	3: quit <1 year ago, missing response	1: none, -6: no visits, missing response	1: none, -6: no visits, missing response	Stands as original value	Stands as original value	Stands as original value	Stand as original value	.N, if H06055=.N; Stand as original value otherwise	F
15	Missing response	-5: don't know	Any value	Any value	Any value	Stands as original 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	.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:

Note 18 (Part a)

H06058, SEX, XSEXA, H06059-H06065

N18A	H06058 is :	SEX is:	H06059--H06065 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 (H06058), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 18 (Part B):

XSEXA, H06059 - H06065

N18B	XSEXA is:	H06059--H06065 are:	H06059--H06065 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”	Stands 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 18b:
All variables H06059--H06065 are missing.

Definition of “marked” in Coding Table for Note 18b:
Any pattern of marks outside the definition “all are blank.”

Coding Table for Note 19
XSEXA, AGE, H06060, H06061

	XSEXA N19 is:	AGE is:	H06060 is:	H06061 is:	H06060 is coded as:	H06061 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	Marked, missing response	Stands as original value	Stand as original value	
3	2: Female	Any value	1: under 40	Marked, missing response	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	1: < 40	.N, valid skip	F 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 20:
XSEXA, H06063, H06064, H06065**

N20	XSEXA is:	H06063 is:	H06064 is:	H06065 is:	H06063 is coded as:	H06064 is coded as:	H06065 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 20 continued:

N20	XSEXA is:	H06063 is:	H06064 is:	H06065 is:	H06063 is coded as:	H06064 is coded as:	H06065 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	1: pregnant now	Stands as original value	Stands as original value	B
11	2: Female	Missing response	3: third trimester, missing response	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).

APPENDIX C

MAPPING THE MILITARY TREATMENT FACILITY (MTF) TO THE CATCHMENT AREA AND REGION

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CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
0001	0001	REDSTONE ARSENAL	685
0001	0074	COLUMBUS AFB	424
0001	0416	MOBILE	190
0003	0003	FT. RUCKER	1427
0004	0004	MAXWELL AFB	1357
0005	0005	FT. WAINWRIGHT	875
0005	0130	KODIAK	86
0005	0203	EIELSON AFB	413
0005	0204	FT. RICHARDSON	354
0005	0417	KETCHIKAN	31
0005	7044	JUNEAU	21
0005	7047	SITKA	15
0006	0006	ELMENDORF AFB	1418
0008	0008	FT. HUACHUCA	1378
0009	0009	LUKE AFB	1328
0010	0010	DAVIS MONTHAN AFB	1414
0014	0014	TRAVIS AFB	1581
0014	0015	BEALE AFB	231
0014	0287	HICKAM AFB	365
0014	0418	ALAMEDA	82
0014	0419	PETALUMA	80
0014	7083	HUMBOLDT BAY	8
0019	0018	VANDENBERG AFB	517
0019	0019	EDWARDS AFB	533
0019	0248	LOS ANGELES AFS	549
0024	0024	CAMP PENDLETON	2596
0024	0208	CAMP PENDLETON	68
0024	0209	BARSTOW	9
0024	0210	CAMP PENDLETON	77
0024	0269	YUMA	69
0024	1657	CAMP PENDLETON	20
0024	1659	CAMP PENDLETON	19
0024	1974	CAMP PENDLETON	3
0024	1975	CAMP PENDLETON	4
0024	6216	CAMP PENDLETON	90
0026	0026	PORT HUENEME	1490
0028	0028	LEMOORE	1162
0028	0319	FALLON	133
0029	0029	SAN DIEGO	2461
0029	0230	SAN DIEGO	41
0029	0232	SAN DIEGO	84
0029	0233	CORONADO	41
0029	0239	EL CENTRO	23
0029	0414	SAN DIEGO	3
0029	0701	SAN DIEGO	127
0029	6207	SAN DIEGO	141
0029	7046	SAN PEDRO	10
0030	0030	TWENTYNINE PALMS	1404
0030	0212	CHINA LAKE	114
0032	0032	FT. CARSON	790
0032	7293	FT. CARSON	317
0032	7300	FT. CARSON	384
0033	0033	USAF ACADEMY	1268
0037	0037	WASHINGTON DC	1352
0037	0256	PENTAGON	388
0037	0420	WASHINGTON DC	49
0037	7298	ARLINGTON ANNEX	64

CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
0038	0038	PENSACOLA	863
0038	0107	MILLINGTON	141
0038	0260	PENSACOLA	60
0038	0261	MILTON	108
0038	0262	PENSACOLA	42
0038	0265	PANAMA CITY	24
0038	0297	NEW ORLEANS	32
0038	0316	GULFPORT	66
0038	0317	MERIDIAN	53
0038	0422	CLEARWATER	30
0038	0436	NEW ORLEANS	74
0038	0513	PENSACOLA	38
0038	0654	PASCAGOULA	42
0038	1990	NEW ORLEANS	31
0039	0039	JACKSONVILLE	1966
0039	0050	MOODY AFB	205
0039	0266	JACKSONVILLE	130
0039	0275	ALBANY	41
0039	0276	ATHENS	24
0039	0277	ATLANTA	59
0039	0337	KINGS BAY	156
0039	0421	AIR STATION MIAMI	19
0039	0517	KEY WEST	85
0039	7048	MIAMI BEACH	23
0042	0042	EGLIN AFB	1270
0043	0043	TYNDALL AFB	1426
0045	0045	MACDILL AFB	1461
0045	7139	HURLBURT FIELD	501
0046	0046	PATRICK AFB	1155
0047	0047	FT. GORDON	830
0047	0273	FT. MCPHERSON	257
0047	1550	FT. GORDON	201
0047	7197	FT. GORDON	194
0047	7239	FT GORDON	74
0047	8924	FT. BUCHANAN	74
0048	0048	FT. BENNING	1133
0048	1316	FT. BENNING	250
0048	1551	FT. BENNING	222
0048	1552	FT. BENNING	54
0048	1560	LAWSON AFB	1
0048	1939	FT. BENNING	1
0049	0049	FT. STEWART	1004
0049	0272	HUNTER AB	325
0049	1562	FT. STEWART	13
0049	1563	FT. STEWART	3
0049	1564	FT. STEWART	13
0049	7443	FT. STEWART	533
0049	7444	FT. STEWART	2
0049	7445	FT. STEWART	150
0051	0051	ROBINS AFB	1463
0052	0052	FT. SHAFTER	1376
0052	0437	SCHOFIELD BARRACKS	232
0052	0534	SCHOFIELD BARRACKS	347
0052	7043	HONOLULU	25
0053	0053	MOUNTAIN HOME AFB	1461
0055	0055	SCOTT AFB	1250
0056	0056	GREAT LAKES	1676

CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
0056	0427	TRAVERSE CITY	2
0056	1660	GREAT LAKES	44
0056	1959	GREAT LAKES	71
0057	0057	FT. RILEY	945
0057	7289	FORT RILEY	633
0058	0058	FT. LEAVENWORTH	701
0058	0076	WHITEMAN AFB	629
0058	7297	KANSAS CITY	129
0060	0060	FT. CAMPBELL	902
0060	1506	FT. CAMPBELL	230
0060	7307	FT CAMPBELL	689
0061	0061	FT. KNOX	1201
0061	0290	ROCK ISLAND ARSENAL	8
0061	0313	SELFRIDGE AB	56
0061	1237	FT. MCCOY	152
0062	0062	BARKSDALE AFB	1566
0064	0064	FT. POLK	1415
0064	0423	NEW ORLEANS	58
0066	0036	DOVER AFB	230
0066	0066	ANDREWS AFB	910
0066	0326	MCGUIRE AFB	369
0066	0413	BOLLING AFB	264
0066	0428	CAPE MAY	53
0067	0067	BETHESDA	1457
0067	0301	INDIAN HEAD	20
0067	0322	COLTS NECK	18
0067	0347	HATBORO	83
0067	0348	MECHANICSBURG	7
0067	0386	DAHLGREN	50
0067	0401	LAKEHURST	9
0067	0404	BMC SUGAR GROVE	7
0067	0424	BALTIMORE	21
0067	0522	ANDREWS AFB	28
0067	0703	WASHINGTON DC	86
0068	0068	PATUXENT RIVER	1527
0069	0069	FT. MEADE	660
0069	0306	ANNAPOLIS	164
0069	0308	ABERDEEN PROVING GROUND	185
0069	0309	FT. DETRICK	131
0069	0352	CARLISLE BARRACKS	258
0069	0525	ANNAPOLIS	304
0069	0545	EDGEWOOD	20
0073	0073	KEESLER AFB	1329
0075	0075	FT. LEONARD WOOD	1565
0078	0059	MCCONNELL AFB	242
0078	0078	OFFUTT AFB	1014
0078	0338	VANCE AFB	85
0079	0079	NELLIS AFB	1346
0083	0083	KIRTLAND AFB	905
0083	0085	CANNON AFB	520
0086	0081	FT. MONMOUTH	239
0086	0086	WEST POINT	1045
0086	1815	WEST POINT	196
0086	5196	ACTIVITIES NEW YORK	26
0086	7154	FT. DIX	353
0089	0089	FT. BRAGG	1335
0089	0335	POPE AFB	215

CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
0089	0430	ELIZABETH CITY	30
0089	7143	FT. BRAGG	560
0089	7286	FT. BRAGG-NC	343
0089	7294	FORT BRAGG	669
0091	0091	CAMP LEJEUNE	2183
0091	0333	CAMP LEJEUNE	28
0091	1662	CAMP LEJEUNE	11
0091	1663	CAMP LEJEUNE	20
0091	1664	CAMP LEJEUNE	9
0091	1992	CAMP LEJEUNE	41
0091	1995	CAMP LEJEUNE	1
0092	0092	CHERRY POINT	1327
0095	0095	WRIGHT-PATTERSON AFB	1256
0096	0013	LITTLE ROCK AFB	685
0096	0096	TINKER AFB	1045
0098	0097	ALTUS AFB	137
0098	0098	FT. SILL	1387
0101	0101	SHAW AFB	1553
0103	0103	CHARLESTON	667
0103	0356	CHARLESTON AFB	315
0103	0511	GOOSE CREEK	478
0104	0104	BEAUFORT	1304
0104	0358	PARRIS ISLAND	145
0104	0360	BEAUFORT	53
0105	0105	FT. JACKSON	1318
0108	0084	HOLLOMAN AFB	258
0108	0108	FT. BLISS	651
0108	0327	WHITE SANDS MISSILE RANGE	19
0108	1617	FT. BLISS	664
0109	0109	FT. SAM HOUSTON	1305
0109	7082	GALVESTON	39
0110	0110	FT. HOOD	1113
0110	1592	FT. HOOD	619
0110	1597	FT. HOOD	117
0110	1599	FT. HOOD	125
0110	1601	FT. HOOD	131
0110	6014	FT HOOD	553
0110	7236	FORT HOOD	616
0112	0112	DYESS AFB	1038
0112	0364	GOODFELLOW AFB	551
0113	0113	SHEPPARD AFB	1320
0117	0114	LAUGHLIN AFB	85
0117	0117	LACKLAND AFB	1458
0118	0118	CORPUS CHRISTI	745
0118	0369	KINGSVILLE	202
0118	0370	FORT WORTH	373
0118	0656	INGLESIDE	306
0119	0077	MALMSTROM AFB	564
0119	0119	HILL AFB	965
0120	0090	SEYMOUR JOHNSON AFB	318
0120	0120	LANGLEY AFB	1043
0120	0432	PORTSMOUTH	26
0120	0433	YORKTOWN	19
0121	0121	FT. EUSTIS	1161
0121	0372	FT. MONROE	81
0121	0464	FT. STORY	26
0122	0122	FT. LEE	1403

CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
0123	0123	FT. BELVOIR	1560
0123	0390	FT. MYER	193
0123	6200	FAIRFAX	247
0123	6201	WOODBIDGE	288
0124	0124	PORTSMOUTH	2293
0124	0380	PORTSMOUTH	11
0124	0381	YORKTOWN	33
0124	0382	VIRGINIA BEACH	96
0124	0519	CHESAPEAKE	33
0124	6214	NORFOLK	124
0124	6221	TRICARE OUTPATIENT CHESAPEAKE	86
0125	0125	FT. LEWIS	1711
0125	0247	MONTEREY	168
0125	0395	MCCHORD AFB	252
0125	0431	ASTORIA	18
0125	0434	PORT ANGELES	10
0125	1646	FT. LEWIS	437
0125	1649	FT. LEWIS	219
0126	0126	BREMERTON	992
0126	0398	BREMERTON	23
0126	0435	SEATTLE	75
0126	1656	SILVERDALE	190
0126	7138	EVERETT	137
0127	0127	OAK HARBOR	1413
0128	0128	FAIRCHILD AFB	1305
0128	7045	NORTH BEND	72
0129	0093	GRAND FORKS AFB	277
0129	0094	MINOT AFB	487
0129	0106	ELLSWORTH AFB	397
0129	0129	F.E. WARREN AFB	377
0129	7200	BUCKLEY AFB	299
0131	0131	FT. IRWIN	1689
0131	0206	YUMA PROVING GROUND	24
0231	0231	CORONADO	1751
0252	0252	PETERSON AFB	1483
0280	0280	PEARL HARBOR	1135
0280	0284	WAHIAWA	66
0280	0285	KANEOHE	340
0280	1987	CAMP H.M. SMITH	114
0321	0310	HANSCOM AFB	1292
0321	0425	CAPE COD	190
0321	0426	BOSTON	212
0330	0330	FT. DRUM	485
0330	7113	FT. DRUM	1431
0366	0366	RANDOLPH AFB	1240
0378	0378	NORFOLK	1441
0385	0385	QUANTICO	1231
0385	1670	QUANTICO	78
0385	1671	QUANTICO	272
0387	0387	VIRGINIA BEACH	1724
0405	0405	MAYPORT	1484
0407	0407	SAN DIEGO	1425
0508	0508	NORFOLK	2125
0606	0606	HEIDELBERG	565
0606	1003	MANNHEIM	228
0606	1135	FRIEDBERG	156
0606	1144	BABENHAUSEN	65

CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
0606	1145	BUEDINGEN	49
0606	7152	SANDHOFEN	91
0606	8987	HEIDELBERG	254
0606	8995	HANAU	229
0606	8996	BUTZBACH	122
0606	8998	DARMSTADT	216
0607	0607	LANDSTUHL	520
0607	0611	VICENZA	286
0607	0614	SHAPE	87
0607	1126	LUDWIGSBURG	404
0607	1128	KAISERSLAUTERN	134
0607	1147	WIESBADEN	385
0607	1154	LIVORNO	48
0607	8977	BRUSSELS	37
0607	8992	DEXHEIM	70
0609	0609	WUERZBURG	306
0609	0808	AVIANO AB	329
0609	1013	BAMBERG	195
0609	1014	ILLESHEIM	81
0609	1015	KATTERBACH	159
0609	1016	GRAFENWOEHR	93
0609	1017	VILSECK	196
0609	1019	HOHENFELS/AMBERG	129
0609	1124	SCHWEINFURT	312
0609	1127	KITZINGEN	162
0609	1235	GIEBELSTADT	97
0612	0612	SEOUL	394
0612	1156	CAMP STANLEY	127
0612	1157	TONGDUCHON	584
0612	1158	MUNSAN	3
0612	8903	PYONGTAEK	272
0612	8907	TAEGU	137
0612	8910	PUSAN	28
0612	8912	UIJONGBU	143
0612	8913	KOREA	91
0612	8916	SEOUL	437
0612	8917	WONGJU	50
0617	0617	NAPLES	201
0617	0618	ROTA	326
0617	0623	KEFLAVIK	170
0617	0624	NAS SIGONELLA	320
0617	0629	LAJES FLD	113
0617	0635	INCIRLIK AB	188
0617	0855	LA MADDALENA	101
0617	0858	SOUDA BAY	32
0617	0874	GAETA	52
0617	1153	CAPODICHINO	145
0617	1170	BAHRAIN	301
0617	1179	RAF ST MAWGAN NEWQUA	21
0617	8931	LONDON	43
0620	0615	GUANTANAMO BAY	126
0620	0620	AGANA	727
0620	0802	ANDERSEN AFB	361
0620	0871	NAVSTA	318
0620	5197	BASE SAN JUAN	35
0620	7042	BORINQUEN	42
0621	0621	OKINAWA	1022

CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
0621	0861	FUTENMA	177
0621	0862	CAMP FOSTER	361
0621	1269	OKINAWA	122
0621	7032	OKINAWA	159
0621	7033	OKINAWA	101
0621	7107	OKINAWA	37
0622	0622	YOKOSUKA	1016
0622	0625	MCAS IWAKUNI	291
0622	0852	SASEBO	317
0622	0853	ATSUGI	341
0622	7288	BRANCH MEDICAL ANNEX HARIO SASEBO J	11
0622	8938	YOKOHAMA	11
0622	8939	CHINHAE	24
0633	0633	RAF LAKENHEATH	1379
0633	0653	RAF CROUGHTON	95
0633	0814	RAF UPWOOD	144
0633	1179	RAF ST MAWGAN NEWQUA	8
0633	7234	MENWITH HILL MEDICAL CENTER	67
0633	8931	LONDON	25
0640	0610	CAMP ZAMA	108
0640	0637	KUNSAN AB	268
0640	0638	OSAN AB	647
0640	0639	MISAWA	448
0640	0640	YOKOTA AB	405
0804	0804	KADENA AB	1859
0806	0799	GEILENKIRCHEN AB	136
0806	0800	RHEIN MAIN AB	6
0806	0805	SPANGDAHLEM AB	597
0806	0806	RAMSTEIN AB	1106
0806	8982	BAD AIBLING	1
6215	6215	SAN DIEGO	974
6223	0034	NEW LONDON	150
6223	0035	GROTON	524
6223	0100	NEWPORT	517
6223	0299	BRUNSWICK	284
6223	0321	PORTSMOUTH	170
6223	0328	SARATOGA SPRINGS	281
9901	0781	OUT OF CATCHMENT-North	37
9901	0782	OUT OF CATCHMENT-North	159
9901	0783	OUT OF CATCHMENT-North	28
9901	0789	OUT OF CATCHMENT-North	22
9901	0907	CONNECTICUT	222
9901	0908	DELAWARE	72
9901	0914	ILLINOIS	285
9901	0915	INDIANA	447
9901	0918	KENTUCKY	205
9901	0920	MAINE	217
9901	0921	MARYLAND	154
9901	0922	MASSACHUSETTS	300
9901	0923	MICHIGAN	465
9901	0930	NEW HAMPSHIRE	127
9901	0931	NEW JERSEY	356
9901	0933	NEW YORK	648
9901	0934	NORTH CAROLINA	633
9901	0936	OHIO	554
9901	0939	PENNSYLVANIA	819
9901	0940	RHODE ISLAND	96

CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
9901	0946	VERMONT	85
9901	0950	WISCONSIN	344
9901	0995	NORTHERN VIRGINIA	92
9901	0996	SOUTHERN VIRGINIA	338
9902	0787	OUT OF CATCHMENT-South	9
9902	0901	ALABAMA	654
9902	0904	ARKANSAS	325
9902	0911	GEORGIA	781
9902	0925	MISSISSIPPI	335
9902	0937	OKLAHOMA	328
9902	0941	SOUTH CAROLINA	264
9902	0943	TENNESSEE	593
9902	0987	EASTERN FLORIDA	944
9902	0988	WESTERN FLORIDA	103
9902	0989	EASTERN LOUISIANA	189
9902	0990	WESTERN LOUISIANA	182
9902	0993	EASTERN TEXAS	1375
9903	0784	OUT OF CATCHMENT-West	387
9903	0785	OUT OF CATCHMENT-West	440
9903	0786	OUT OF CATCHMENT-West	73
9903	0788	OUT OF CATCHMENT-West	210
9903	0902	ALASKA	59
9903	0906	COLORADO	329
9903	0912	HAWAII	44
9903	0917	KANSAS	324
9903	0924	MINNESOTA	422
9903	0927	MONTANA	140
9903	0928	NEBRASKA	101
9903	0929	NEVADA	123
9903	0932	NEW MEXICO	224
9903	0935	NORTH DAKOTA	75
9903	0938	OREGON	396
9903	0942	SOUTH DAKOTA	107
9903	0945	UTAH	257
9903	0948	WASHINGTON	507
9903	0951	WYOMING	87
9903	0973	NORTHERN IDAHO	29
9903	0974	SOUTHERN IDAHO	187
9903	0985	NORTHERN CALIFORNIA	674
9903	0986	SOUTHERN CALIFORNIA	851
9903	0994	WESTERN TEXAS	1
9904	0953	PUERTO RICO	1120
9904	0957	GERMANY	193
9904	0958	GREECE	13
9904	0959	ICELAND	1
9904	0960	ITALY	77
9904	0961	JAPAN	58
9904	0963	PHILIPPINES	26
9904	0964	PORTUGAL	7
9904	0965	KOREA	29
9904	0966	SPAIN	29
9904	0967	TURKEY	47
9904	0968	UNITED KINGDOM	36
9904	0969	CANADA	24
9904	0970	OTHER CARIBBEAN	24
9904	0971	CENTRAL AMERICA	124
9904	0972	SOUTH AMERICA	52

CACSMPL	DMIS ID	CATCHMENT AREA	# SAMPLED IN 2006
9904	0975	OUT OF CATCHMENT-Overseas	66
9904	0976	AFRICA	30
9904	0977	MIDEAST	225
9904	0978	SOUTHEAST ASIA	28
9904	0979	BELGIUM	36
9904	0982	OTHER EUROPE	58
9904	0983	OTHER PACIFIC	223
9904	0999	UNKNOWN LOCATION	3820
9904	6897	OTHER EUROPE NON TGRO	34
9904	6898	OTHER PACIFIC NON TGRO	31

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APPENDIX D

RESPONSE RATE TABLES

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TABLE D.1
RESPONSE RATE BY OCONUS COMMAND

	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Europe	21.5	22.2	22.9	23.6	22.3	23.0	15.8	16.4	20.6	21.4
In Conus/Missing Region	32.2	47.3	33.1	47.8	29.8	45.2	27.5	42.9	30.6	45.8
Latin America	32.4	38.8	36.4	47.8	37.5	44.9	29.9	39.4	34.0	42.6
Western Pacific	18.3	17.9	20.2	20.5	19.5	20.2	15.5	16.2	18.4	18.7

RR=Unweighted
RR_W=Weighted

TABLE D.2
RESPONSE RATES BY SEX

	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Female	36.0	47.7	37.2	49.0	34.0	46.6	31.8	44.3	34.7	46.9
Male	27.0	44.2	27.9	44.3	25.0	41.8	22.1	39.1	25.5	42.4

RR=Unweighted
RR_W=Weighted

TABLE D.3
RESPONSE RATES BY CONUS/OCONUS INDICATOR

	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
In Conus	32.2	47.4	33.1	47.9	29.8	45.3	27.6	43.0	30.7	45.9
Invalid/Missing	28.3	37.3	32.9	41.5	27.2	35.5	25.3	34.0	28.4	37.0
Not in Conus	20.6	21.9	22.3	24.2	21.9	23.9	16.4	18.4	20.3	22.1

RR=Unweighted
RR_W=Weighted

TABLE D.4
RESPONSE RATES BY BENEFICIARY CATEGORY

	Q1-2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Active Duty and Guard/Reserve	18.9	17.7	19.8	18.8	17.2	16.4	14.1	13.5	17.5	16.6
Dependent of Active Duty & Guard/Reserve	27.5	27.8	28.0	28.3	25.7	25.8	22.7	22.7	26.0	26.1
Retiree/Depend of Retir/Surviv/Other 65+	73.8	76.3	75.8	76.7	71.8	73.9	69.4	70.5	72.7	74.3
Retiree/Depend of Retir/Surviv/Other <65	49.5	51.7	51.1	52.1	47.2	49.6	46.1	48.2	48.5	50.4

RR=Unweighted
RR_W=Weighted

TABLE D.5
RESPONSE RATES BY CATCHMENT AREA

Catchment Area	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Agana	24.2	25.5	28.5	29.2	25.6	26.6	22.2	23.7	25.1	26.2
Andrews AFB	35.1	41.6	33.3	41.1	27.6	34.4	27.9	35.9	30.6	38.3
Barksdale AFB	24.6	30.5	29.0	34.9	23.6	29.6	21.6	28.2	24.7	30.8
Brooke AMC-Ft. Sam Houston	43.7	55.0	39.0	53.5	38.2	56.1	34.3	44.9	38.8	52.3
Davis-Monthan AFB	36.6	42.3	36.7	41.6	29.1	34.9	29.5	33.5	33.0	38.1
Dyess AFB	28.1	34.6	30.6	38.1	25.5	30.6	18.2	25.9	25.6	32.3
Edwards AFB	30.1	34.0	32.8	37.8	22.4	26.8	25.6	28.5	27.7	31.8
Eglin AFB	41.4	53.2	42.4	50.6	36.0	46.8	34.3	45.3	38.5	49.0
Elmendorf AFB/Ft Wainwright	34.3	37.5	37.0	41.2	29.9	34.8	29.3	34.5	32.6	37.0
Evans ACH-Ft. Carson	25.6	34.4	27.3	35.6	25.5	34.4	24.3	32.3	25.7	34.1
F.E. Warren AFB	27.2	30.3	27.4	30.8	23.8	30.6	18.4	22.6	24.2	28.6
Fairchild AFB	33.1	41.7	33.0	40.7	29.5	39.5	29.8	40.0	31.4	40.5
Ft Wainwright	20.8	21.1	20.8	20.3	20.1	19.4	18.5	18.4	20.0	19.8
Ft. Belvoir	46.3	55.3	45.4	52.2	37.4	44.7	41.1	50.7	42.6	50.7
Ft. Benning	25.0	32.7	27.2	36.4	20.6	29.8	21.1	30.3	23.5	32.2
Ft. Bliss	31.9	42.4	33.8	44.5	24.7	33.9	23.2	33.5	28.3	38.5
Ft. Bragg	26.1	32.8	21.9	29.4	20.8	29.1	21.7	29.0	22.6	30.1
Ft. Campbell	23.4	27.8	21.7	27.8	21.6	27.1	19.8	25.9	21.6	27.1
Ft. Drum	18.0	18.6	16.1	16.6	11.8	12.2	13.0	13.4	14.7	15.2
Ft. Eustis	37.7	46.5	35.1	44.4	30.6	40.4	33.1	42.6	34.1	43.5
Ft. Gordon	30.9	41.9	35.6	46.2	27.7	38.0	28.9	40.0	30.8	41.5
Ft. Hood	18.1	25.6	22.3	31.6	18.0	26.2	18.9	28.3	19.3	27.9
Ft. Huachuca	27.6	33.9	28.0	34.2	28.3	33.1	25.4	34.9	27.3	34.0
Ft. Irwin	19.2	22.8	18.4	20.9	16.4	20.6	14.4	18.8	17.1	20.8
Ft. Jackson	31.6	45.7	37.5	51.6	32.2	46.4	29.8	42.9	32.8	46.7
Ft. Knox	31.2	38.4	31.4	40.4	30.1	40.0	31.8	42.0	31.2	40.2
Ft. Leavenworth	32.9	38.7	32.8	37.8	30.3	37.0	23.2	29.9	29.8	35.8
Ft. Lee	32.1	37.8	31.7	39.5	29.3	33.9	21.8	27.8	28.7	34.6
Ft. Leonard Wood	27.1	32.9	32.2	37.8	24.9	30.0	22.9	29.0	26.6	32.3
Ft. Meade	33.3	37.4	35.3	38.1	31.0	36.0	28.5	32.4	32.0	36.0
Ft. Polk	21.7	28.8	26.2	32.4	21.7	27.4	20.2	26.5	22.5	28.8
Ft. Riley	29.8	32.1	26.7	28.3	28.5	32.8	24.7	27.3	27.4	30.1
Ft. Ritchie	30.7	36.7	26.5	30.9	26.5	28.9	25.2	28.3	27.2	31.2
Ft. Rucker	38.1	47.1	34.1	41.6	27.0	33.1	24.1	30.2	30.9	37.9
Ft. Sill	32.5	41.1	33.8	41.2	31.4	37.1	24.7	30.9	30.6	37.5
Ft. Stewart	20.8	24.6	22.9	27.1	21.5	26.0	22.1	26.3	21.8	26.0
Hill AFB	25.6	31.0	32.9	38.6	27.6	33.2	21.9	29.0	27.0	32.9
Kadena AFB	21.2	21.8	22.8	24.1	22.3	23.7	15.4	16.7	20.4	21.6

TABLE D.5 (continued)

Catchment Area	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Keesler AFB	11.7	12.4	38.1	49.6	32.8	45.0	30.4	42.4	32.5	44.5
Kirtland AFB	28.7	35.8	30.5	40.1	29.9	39.3	22.4	29.6	27.9	36.2
Lackland AFB	32.8	44.2	32.0	44.4	30.3	40.6	30.4	43.5	31.4	43.2
Landstuhl	22.2	23.1	26.4	27.8	20.4	21.3	15.8	16.5	21.2	22.2
Landstuhl AMC/other German	22.7	23.9	23.2	23.9	23.3	23.5	17.2	18.0	21.6	22.3
Langley AFB	35.4	39.1	39.0	45.4	30.2	35.3	29.3	35.8	33.5	38.9
Laughlin AFB/Sheppard AFB	36.3	46.2	37.8	41.9	34.1	44.0	32.9	39.7	35.3	43.0
Luke AFB	40.4	56.5	39.9	54.9	29.2	32.9	33.8	42.3	35.9	51.6
MacDill AFB	43.0	51.7	42.9	53.0	37.3	48.9	28.5	31.2	38.5	49.0
Madigan AMC-Ft. Lewis	26.5	37.9	30.3	43.3	27.5	39.0	24.8	37.5	27.3	39.4
Maxwell AFB	39.5	47.8	38.4	44.6	33.6	37.8	26.3	33.5	34.5	40.9
Mountain Home AFB	35.8	40.8	32.2	38.1	29.4	35.1	28.8	35.5	31.6	37.4
NACC Portsmouth New Hamp.	32.8	35.2	32.5	36.2	24.9	27.8	23.3	27.3	28.4	31.6
NBHC Mayport	26.4	32.3	28.6	33.9	24.3	27.5	22.0	26.3	25.3	29.9
NBHC Nas North Island	26.4	28.7	28.1	30.0	24.5	26.8	23.8	26.2	25.7	27.9
NBHC Ntc San Diego	35.4	40.5	31.9	37.8	26.1	33.7	26.9	33.5	30.0	36.3
NH 29-Palms	19.9	25.2	24.9	29.9	20.5	25.2	17.2	21.6	20.6	25.4
NH Beaufort	26.9	31.8	27.5	31.5	28.2	32.5	24.0	29.5	26.7	31.3
NH Bremerton	31.0	32.7	35.6	42.7	26.3	34.2	30.7	36.2	30.9	36.5
NH Camp Lejeune	19.8	21.6	21.5	22.8	24.6	25.8	19.7	21.5	21.4	22.9
NH Camp Pendleton/Ft Irwin	23.8	37.3	22.6	35.5	22.2	35.8	20.3	31.5	22.2	35.0
NH Charleston	28.5	37.2	34.6	44.8	34.5	45.5	26.6	37.8	31.0	41.3
NH Cherry Point	32.5	37.4	28.8	33.9	28.9	33.2	31.2	36.5	30.4	35.3
NH Corpus Christi	30.1	35.2	29.3	33.2	28.9	33.5	25.0	28.7	28.3	32.7
NH Great Lakes	29.2	38.0	29.4	38.6	28.5	34.7	26.3	33.5	28.3	36.2
NH Jacksonville/Key West	30.4	42.5	32.6	44.0	31.6	42.0	25.8	36.3	30.2	41.2
NH LeMoore	26.4	31.0	33.8	39.7	28.1	34.2	30.8	35.8	29.8	35.2
NH Oak Harbor	35.7	39.8	37.5	41.8	29.9	33.9	32.8	36.5	34.0	38.0
NH Patuxent River	32.7	36.3	34.8	41.7	30.7	36.2	22.5	26.0	30.2	35.0
NH Pensacola	35.1	48.2	36.7	47.9	31.6	42.9	32.7	43.0	34.0	45.5
NH Yokosuka/other Asian	21.1	20.9	17.8	18.8	21.5	22.6	14.4	14.9	18.8	19.4
NMC Portsmouth	26.5	36.0	30.4	39.0	26.9	35.8	24.3	31.9	27.0	35.7
NMC San Diego	26.7	40.0	25.7	36.9	24.8	35.3	20.4	29.5	24.4	35.5
NMCL Quantico	27.9	32.2	33.1	38.0	26.2	29.6	20.7	26.7	27.0	31.7
NNMC Bethesda	37.3	51.5	38.9	48.3	33.6	45.1	29.9	38.8	34.9	45.9
Naples	19.4	18.9	19.0	19.1	22.1	23.1	14.7	13.9	18.8	18.8
Naval Health Care New England	25.8	29.4	30.5	33.6	26.1	28.9	25.3	27.4	26.9	29.8
Nellis AFB	41.1	54.0	40.3	54.9	34.1	44.2	33.0	44.5	37.1	49.4
Norfolk	23.3	23.0	26.8	26.3	21.5	21.1	23.7	23.2	23.8	23.4
Offutt AFB	38.8	46.7	38.7	45.6	37.2	45.9	34.5	42.0	37.3	45.1
Okinawa	14.7	15.5	16.2	17.2	13.8	15.3	14.2	15.6	14.8	15.9

TABLE D.5 (continued)

Catchment Area	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Out of catchment-north	44.9	56.6	43.9	57.1	44.7	57.1	41.3	53.9	43.7	56.2
Out of catchment-overseas	28.4	36.3	32.5	41.1	29.3	36.9	26.1	34.2	29.0	37.1
Out of catchment-south	45.3	57.6	46.7	58.8	43.6	55.6	41.2	52.9	44.2	56.1
Out of catchment-west	49.7	61.5	46.2	57.2	45.8	57.0	43.1	54.3	46.2	57.5
Patrick AFB	40.6	46.1	41.9	50.9	39.9	50.4	35.5	48.2	39.5	48.9
Pearl Harbor	33.2	35.9	29.6	32.6	29.4	31.0	24.3	26.6	29.1	31.5
Peterson AFB	37.7	43.8	33.6	38.8	28.6	32.1	25.6	31.5	31.4	36.5
Port Hueneme	29.1	33.1	32.2	36.7	29.2	34.5	26.7	31.8	29.3	34.0
RAF Lakenheath/other Europe	21.6	22.4	25.2	27.5	27.3	31.0	15.1	16.8	22.3	24.4
Randolph AFB	41.3	46.9	37.2	45.4	38.7	44.7	32.0	41.6	37.3	44.6
Redstone Ars/Ft McClellan	33.9	42.5	40.4	51.0	35.3	44.7	27.6	34.1	34.3	43.1
Robins AFB	30.9	35.0	33.4	38.9	29.6	37.5	25.1	30.7	29.7	35.6
Scott AFB	45.2	55.5	41.3	48.1	36.6	44.1	40.7	52.2	40.9	50.0
Seoul	12.5	12.0	16.5	16.2	15.6	15.4	12.4	12.3	14.3	13.9
Shaw AFB	30.2	38.1	26.4	32.6	26.2	31.4	21.4	28.9	26.1	32.8
Spangdahlem/Ramstein AFB	22.9	23.4	26.6	27.7	24.1	25.6	16.1	16.8	22.4	23.4
Tinker AFB	27.3	32.4	32.6	41.1	24.7	30.2	22.1	28.7	26.7	33.1
Travis AFB	35.0	45.1	36.8	45.6	36.8	47.8	29.8	42.6	34.6	45.3
Tricare Outpat-Chula Vista	40.0	42.5	36.9	41.3	34.2	36.9	31.1	34.7	35.5	38.9
Tripler AMC	28.0	33.7	25.5	30.2	28.5	34.1	21.8	28.6	25.9	31.7
Tyndall AFB	32.1	40.0	33.6	43.8	29.9	36.4	29.1	37.7	31.2	39.5
USAF Acad. Hospital	42.1	54.1	42.4	54.4	38.9	50.2	34.9	47.7	39.6	51.6
Virginia Beach	22.3	26.8	25.9	27.6	23.5	25.4	22.1	26.2	23.4	26.5
Walter Reed AMC	36.1	48.7	38.3	50.2	29.8	37.8	29.6	38.9	33.5	43.9
West Point	26.8	32.3	30.4	39.8	27.3	39.2	25.5	36.2	27.6	36.9
Wright Patterson AFB	39.8	48.7	44.3	55.8	39.1	48.7	38.4	49.1	40.4	50.6
Wuerzburg	19.5	19.6	17.1	17.6	17.1	16.8	12.7	12.8	16.6	16.9
Yokota AB	17.2	17.4	18.6	18.9	17.6	18.1	14.0	14.5	16.8	17.2

RR=Unweighted

RR_w=Weighted

TABLE D.6
RESPONSE RATES BY SERVICE AFFILIATION

	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Administrative	36.1	34.8	37.9	46.8	31.0	30.2	21.3	20.3	31.9	33.7
Air Force	32.2	42.7	33.6	44.8	29.4	39.5	26.1	37.2	30.3	41.1
Army	27.0	35.3	27.7	36.7	24.6	33.2	22.8	33.1	25.6	34.6
Coast Guard	23.2	26.9	27.2	28.5	19.8	22.4	16.5	13.6	21.6	22.8
Navy	26.7	34.7	27.9	35.6	25.9	33.6	23.1	30.0	25.9	33.5
Noncatchment	44.0	61.8	43.9	60.7	42.4	59.5	39.4	56.3	42.4	59.5
Support Contractor	39.7	47.2	41.2	48.9	38.4	46.9	35.9	43.1	38.8	46.4
USTF	54.7	62.5	60.4	64.0	57.5	69.9	53.1	61.2	56.3	64.3

RR=Unweighted
RR_w=Weighted

TABLE D.7
RESPONSE RATES BY BRANCH OF SERVICE

	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
Air Force	34.3	52.4	35.4	52.6	31.7	50.3	28.2	47.4	32.4	50.6
Army	28.8	42.4	29.5	43.0	26.8	40.8	24.5	39.1	27.4	41.3
Coast Guard	30.5	44.8	33.7	48.9	26.4	35.9	24.4	32.8	28.6	40.6
Marine Corps	22.6	35.3	23.4	34.8	21.0	32.4	19.8	32.2	21.7	33.7
Navy	31.6	46.6	32.9	48.3	30.6	45.7	27.9	41.9	30.7	45.6
Other/Unknown	54.9	63.8	55.5	64.6	45.9	53.0	49.7	58.7	51.2	59.2

RR=Unweighted
RR_w=Weighted

TABLE D.8
RESPONSE RATES BY TRICARE NEXT GENERATION OF CONTRACTS REGION GROUPING

	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
North	32.2	46.3	32.7	46.7	29.5	44.4	28.1	42.9	30.6	45.1
Overseas	20.6	21.9	22.3	24.2	21.9	23.9	16.4	18.4	20.3	22.1
South	32.4	48.4	34.4	50.4	30.8	47.0	27.7	44.4	31.3	47.6
West	32.1	47.5	32.4	46.5	29.2	44.5	26.9	41.7	30.2	45.0

RR=Unweighted
RR_w=Weighted

TABLE D.9
RESPONSE RATES BY COMBINED GEOGRAPHIC AREA

TNEX Region	Catchment	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
		RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
North	Andrews AFB	35.1	41.6	33.3	41.1	27.6	34.4	27.9	35.9	30.6	38.3
North	Ft. Belvoir	46.3	55.3	45.4	52.2	37.4	44.7	41.1	50.7	42.6	50.7
North	Ft. Bragg	26.1	32.8	21.9	29.4	20.8	29.1	21.7	29.0	22.6	30.1
North	Ft. Campbell	23.4	27.8	21.7	27.8	21.6	27.1	19.8	25.9	21.6	27.1
North	Ft. Drum	18.0	18.6	16.1	16.6	11.8	12.2	13.0	13.4	14.7	15.2
North	Ft. Eustis	37.7	46.5	35.1	44.4	30.6	40.4	33.1	42.6	34.1	43.5
North	Ft. Knox	31.2	38.4	31.4	40.4	30.1	40.0	31.8	42.0	31.2	40.2
North	Ft. Lee	32.1	37.8	31.7	39.5	29.3	33.9	21.8	27.8	28.7	34.6
North	Ft. Meade	33.3	37.4	35.3	38.1	31.0	36.0	28.5	32.4	32.0	36.0
North	Ft. Ritchie	30.7	36.7	26.5	30.9	26.5	28.9	25.2	28.3	27.2	31.2
North	Langley AFB	35.4	39.1	39.0	45.4	30.2	35.3	29.3	35.8	33.5	38.9
North	NACC Portsmouth New Hamp.	32.8	35.2	32.5	36.2	24.9	27.8	23.3	27.3	28.4	31.6
North	NH Camp Lejeune	19.8	21.6	21.5	22.8	24.6	25.8	19.7	21.5	21.4	22.9
North	NH Cherry Point	32.5	37.4	28.8	33.9	28.9	33.2	31.2	36.5	30.4	35.3
North	NH Great Lakes	29.2	38.0	29.4	38.6	28.5	34.7	26.3	33.5	28.3	36.2
North	NH Patuxent River	32.7	36.3	34.8	41.7	30.7	36.2	22.5	26.0	30.2	35.0
North	NMC Portsmouth	26.5	36.0	30.4	39.0	26.9	35.8	24.3	31.9	27.0	35.7
North	NMCL Quantico	27.9	32.2	33.1	38.0	26.2	29.6	20.7	26.7	27.0	31.7
North	NNMC Bethesda	37.3	51.5	38.9	48.3	33.6	45.1	29.9	38.8	34.9	45.9
North	Naval Health Care New England	25.8	29.4	30.5	33.6	26.1	28.9	25.3	27.4	26.9	29.8
North	Norfolk	23.3	23.0	26.8	26.3	21.5	21.1	23.7	23.2	23.8	23.4
North	Out of catchment-north	44.9	56.6	43.9	57.1	44.7	57.1	41.3	53.9	43.7	56.2
North	Scott AFB	45.2	55.5	41.3	48.1	36.6	44.1	40.7	52.2	40.9	50.0
North	Virginia Beach	22.3	26.8	25.9	27.6	23.5	25.4	22.1	26.2	23.4	26.5
North	Walter Reed AMC	36.1	48.7	38.3	50.2	29.8	37.8	29.6	38.9	33.5	43.9
North	West Point	26.8	32.3	30.4	39.8	27.3	39.2	25.5	36.2	27.6	36.9
North	Wright Patterson AFB	39.8	48.7	44.3	55.8	39.1	48.7	38.4	49.1	40.4	50.6
Overseas	Agana	24.2	25.5	28.5	29.2	25.6	26.6	22.2	23.7	25.1	26.2
Overseas	Kadena AFB	21.2	21.8	22.8	24.1	22.3	23.7	15.4	16.7	20.4	21.6
Overseas	Landstuhl	22.2	23.1	26.4	27.8	20.4	21.3	15.8	16.5	21.2	22.2
Overseas	Landstuhl AMC/other German	22.7	23.9	23.2	23.9	23.3	23.5	17.2	18.0	21.6	22.3
Overseas	NH Yokosuka/other Asian	21.1	20.9	17.8	18.8	21.5	22.6	14.4	14.9	18.8	19.4
Overseas	Naples	19.4	18.9	19.0	19.1	22.1	23.1	14.7	13.9	18.8	18.8
Overseas	Okinawa	14.7	15.5	16.2	17.2	13.8	15.3	14.2	15.6	14.8	15.9
Overseas	Out of catchment-overseas	28.5	34.5	32.0	40.4	32.2	39.2	27.4	34.6	30.0	37.1
Overseas	RAF Lakenheath/other Europe	21.6	22.4	25.2	27.5	27.3	31.0	15.1	16.8	22.3	24.4
Overseas	Seoul	12.5	12.0	16.5	16.2	15.6	15.4	12.4	12.3	14.3	13.9
Overseas	Spangdahlem/Ramstein AFB	22.9	23.4	26.6	27.7	24.1	25.6	16.1	16.8	22.4	23.4
Overseas	Wuerzburg	19.5	19.6	17.1	17.6	17.1	16.8	12.7	12.8	16.6	16.9
Overseas	Yokota AB	17.2	17.4	18.6	18.9	17.6	18.1	14.0	14.5	16.8	17.2

TABLE D.9 (continued)

TNEX Region	Catchment	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
		RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
South	Barksdale AFB	24.6	30.5	29.0	34.9	23.6	29.6	21.6	28.2	24.7	30.8
South	Brooke AMC-Ft. Sam Houston	43.7	55.0	39.0	53.5	38.2	56.1	34.3	44.9	38.8	52.3
South	Dyess AFB	28.1	34.6	30.6	38.1	25.5	30.6	18.2	25.9	25.6	32.3
South	Eglin AFB	41.4	53.2	42.4	50.6	36.0	46.8	34.3	45.3	38.5	49.0
South	Ft. Benning	25.0	32.7	27.2	36.4	20.6	29.8	21.1	30.3	23.5	32.2
South	Ft. Gordon	30.9	41.9	35.6	46.2	27.7	38.0	28.9	40.0	30.8	41.5
South	Ft. Hood	18.1	25.6	22.3	31.6	18.0	26.2	18.9	28.3	19.3	27.9
South	Ft. Jackson	31.6	45.7	37.5	51.6	32.2	46.4	29.8	42.9	32.8	46.7
South	Ft. Polk	21.7	28.8	26.2	32.4	21.7	27.4	20.2	26.5	22.5	28.8
South	Ft. Rucker	38.1	47.1	34.1	41.6	27.0	33.1	24.1	30.2	30.9	37.9
South	Ft. Sill	32.5	41.1	33.8	41.2	31.4	37.1	24.7	30.9	30.6	37.5
South	Ft. Stewart	20.8	24.6	22.9	27.1	21.5	26.0	22.1	26.3	21.8	26.0
South	Keesler AFB	11.7	12.4	38.1	49.6	32.8	45.0	30.4	42.4	32.5	44.5
South	Lackland AFB	32.8	44.2	32.0	44.4	30.3	40.6	30.4	43.5	31.4	43.2
South	Laughlin AFB/Sheppard AFB	36.3	46.2	37.8	41.9	34.1	44.0	32.9	39.7	35.3	43.0
South	MacDill AFB	43.0	51.7	42.9	53.0	37.3	48.9	28.5	31.2	38.5	49.0
South	Maxwell AFB	39.5	47.8	38.4	44.6	33.6	37.8	26.3	33.5	34.5	40.9
South	NBHC Mayport	26.4	32.3	28.6	33.9	24.3	27.5	22.0	26.3	25.3	29.9
South	NH Beaufort	26.9	31.8	27.5	31.5	28.2	32.5	24.0	29.5	26.7	31.3
South	NH Charleston	28.5	37.2	34.6	44.8	34.5	45.5	26.6	37.8	31.0	41.3
South	NH Corpus Christi	30.1	35.2	29.3	33.2	28.9	33.5	25.0	28.7	28.3	32.7
South	NH Jacksonville/Key West	30.4	42.5	32.6	44.0	31.6	42.0	25.8	36.3	30.2	41.2
South	NH Pensacola	35.1	48.2	36.7	47.9	31.6	42.9	32.7	43.0	34.0	45.5
South	Out of catchment-south	45.3	57.6	46.7	58.8	43.6	55.6	41.2	52.9	44.2	56.1
South	Patrick AFB	40.6	46.1	41.9	50.9	39.9	50.4	35.5	48.2	39.5	48.9
South	Randolph AFB	41.3	46.9	37.2	45.4	38.7	44.7	32.0	41.6	37.3	44.6
South	Redstone Ars/Ft McClellan	33.9	42.5	40.4	51.0	35.3	44.7	27.6	34.1	34.3	43.1
South	Robins AFB	30.9	35.0	33.4	38.9	29.6	37.5	25.1	30.7	29.7	35.6
South	Shaw AFB	30.2	38.1	26.4	32.6	26.2	31.4	21.4	28.9	26.1	32.8
South	Tinker AFB	27.3	32.4	32.6	41.1	24.7	30.2	22.1	28.7	26.7	33.1
South	Tyndall AFB	32.1	40.0	33.6	43.8	29.9	36.4	29.1	37.7	31.2	39.5
West	Davis-Monthan AFB	36.6	42.3	36.7	41.6	29.1	34.9	29.5	33.5	33.0	38.1
West	Edwards AFB	30.1	34.0	32.8	37.8	22.4	26.8	25.6	28.5	27.7	31.8
West	Elmendorf AFB/Ft Wainwright	34.3	37.5	37.0	41.2	29.9	34.8	29.3	34.5	32.6	37.0
West	Evans ACH-Ft. Carson	25.6	34.4	27.3	35.6	25.5	34.4	24.3	32.3	25.7	34.1
West	F.E. Warren AFB	27.2	30.3	27.4	30.8	23.8	30.6	18.4	22.6	24.2	28.6
West	Fairchild AFB	33.1	41.7	33.0	40.7	29.5	39.5	29.8	40.0	31.4	40.5
West	Ft Wainwright	20.8	21.1	20.8	20.3	20.1	19.4	18.5	18.4	20.0	19.8
West	Ft. Bliss	31.9	42.4	33.8	44.5	24.7	33.9	23.2	33.5	28.3	38.5
West	Ft. Huachuca	27.6	33.9	28.0	34.2	28.3	33.1	25.4	34.9	27.3	34.0
West	Ft. Irwin	19.2	22.8	18.4	20.9	16.4	20.6	14.4	18.8	17.1	20.8
West	Ft. Leavenworth	32.9	38.7	32.8	37.8	30.3	37.0	23.2	29.9	29.8	35.8

TABLE D.9 (continued)

TNEX Region	Catchment	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
		RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w	RR	RR _w
West	Ft. Leonard Wood	27.1	32.9	32.2	37.8	24.9	30.0	22.9	29.0	26.6	32.3
West	Ft. Riley	29.8	32.1	26.7	28.3	28.5	32.8	24.7	27.3	27.4	30.1
West	Hill AFB	25.6	31.0	32.9	38.6	27.6	33.2	21.9	29.0	27.0	32.9
West	Kirtland AFB	28.7	35.8	30.5	40.1	29.9	39.3	22.4	29.6	27.9	36.2
West	Luke AFB	40.4	56.5	39.9	54.9	29.2	32.9	33.8	42.3	35.9	51.6
West	Madigan AMC-Ft. Lewis	26.5	37.9	30.3	43.3	27.5	39.0	24.8	37.5	27.3	39.4
West	Mountain Home AFB	35.8	40.8	32.2	38.1	29.4	35.1	28.8	35.5	31.6	37.4
West	NBHC Nas North Island	26.4	28.7	28.1	30.0	24.5	26.8	23.8	26.2	25.7	27.9
West	NBHC Ntc San Diego	35.4	40.5	31.9	37.8	26.1	33.7	26.9	33.5	30.0	36.3
West	NH 29-Palms	19.9	25.2	24.9	29.9	20.5	25.2	17.2	21.6	20.6	25.4
West	NH Bremerton	31.0	32.7	35.6	42.7	26.3	34.2	30.7	36.2	30.9	36.5
West	NH Camp Pendleton/Ft Irwin	23.8	37.3	22.6	35.5	22.2	35.8	20.3	31.5	22.2	35.0
West	NH LeMoore	26.4	31.0	33.8	39.7	28.1	34.2	30.8	35.8	29.8	35.2
West	NH Oak Harbor	35.7	39.8	37.5	41.8	29.9	33.9	32.8	36.5	34.0	38.0
West	NMC San Diego	26.7	40.0	25.7	36.9	24.8	35.3	20.4	29.5	24.4	35.5
West	Nellis AFB	41.1	54.0	40.3	54.9	34.1	44.2	33.0	44.5	37.1	49.4
West	Offutt AFB	38.8	46.7	38.7	45.6	37.2	45.9	34.5	42.0	37.3	45.1
West	Out of catchment-west	49.7	61.5	46.2	57.2	45.8	57.1	43.1	54.3	46.2	57.5
West	Pearl Harbor	33.2	35.9	29.6	32.6	29.4	31.0	24.3	26.6	29.1	31.5
West	Peterson AFB	37.7	43.8	33.6	38.8	28.6	32.1	25.6	31.5	31.4	36.5
West	Port Hueneme	29.1	33.1	32.2	36.7	29.2	34.5	26.7	31.8	29.3	34.0
West	Travis AFB	35.0	45.1	36.8	45.6	36.8	47.8	29.8	42.6	34.6	45.3
West	Tricare Outpat-Chula Vista	40.0	42.5	36.9	41.3	34.2	36.9	31.1	34.7	35.5	38.9
West	Tripler AMC	28.0	33.7	25.5	30.2	28.5	34.1	21.8	28.6	25.9	31.7
West	USAF Acad. Hospital	42.1	54.1	42.4	54.4	38.9	50.2	34.9	47.7	39.6	51.6

RR=Unweighted

RR_w=Weighted

TABLE D.10
RESPONSE RATES BY BENEFICIARY CATEGORY AND SEX

		Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
		RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Active Duty and Guard/Reserve	Female	21.8	20.7	22.4	22.4	19.4	19.0	17.1	16.3	20.2	19.6
Active Duty and Guard/Reserve	Male	18.4	17.2	19.4	18.2	16.8	15.9	13.5	13.0	17.0	16.1
Dependent of Active Duty & Guard/Reserve	Female	29.1	29.4	29.5	30.0	26.9	26.9	23.9	24.0	27.3	27.6
Dependent of Active Duty & Guard/Reserve	Male	16.1	15.9	15.6	14.4	16.6	17.0	14.1	13.4	15.6	15.2
Retiree/Depend of Retir/Surviv/Other 65+	Female	69.3	71.9	72.2	72.6	68.2	69.9	65.4	66.5	68.8	70.2
Retiree/Depend of Retir/Surviv/Other 65+	Male	78.8	80.8	80.0	81.2	76.0	78.1	74.3	75.1	77.3	78.8
Retiree/Depend of Retir/Surviv/Other <65	Female	47.5	49.4	49.6	50.5	46.0	49.1	44.7	47.4	46.9	49.1
Retiree/Depend of Retir/Surviv/Other <65	Male	51.6	54.1	52.7	53.8	48.5	50.1	47.8	49.0	50.2	51.8

RR=Unweighted

RR_W=Weighted

TABLE D.11
RESPONSE RATES BY BENEFICIARY CATEGORY AND SERVICE

Beneficiary Category	Service	Q1 2006		Q2 2006		Q3 2006		Q4 2006		COMBINED	
		RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W	RR	RR _W
Active Duty and Guard/Reserve	Air Force	22.5	23.1	23.4	23.9	19.3	19.2	15.2	15.6	20.1	20.4
	Army	16.1	15.3	17.0	16.6	15.0	15.0	12.2	12.4	15.1	14.8
	Coast Guard	20.9	20.2	24.2	24.7	20.0	20.3	16.9	14.0	20.5	19.7
	Marine Corps	12.2	10.4	12.9	11.2	11.0	10.2	9.8	9.2	11.5	10.3
	Navy	20.8	19.6	21.6	20.2	19.6	17.9	16.5	14.9	19.6	18.2
	Other/Unknown	59.4	65.7	59.7	60.4	48.6	55.5	50.0	39.9	54.1	54.8
Dependent of Active Duty & Guard/Reserve	Air Force	29.4	28.5	31.2	31.2	27.9	26.9	23.7	23.6	28.0	27.6
	Army	25.4	26.6	25.0	26.1	22.9	24.1	20.1	20.7	23.3	24.4
	Coast Guard	30.2	27.6	39.4	38.0	23.7	19.9	25.4	25.1	29.5	27.7
	Marine Corps	25.7	28.1	26.6	26.2	25.2	25.6	22.9	22.3	25.1	25.5
	Navy	28.9	28.7	28.4	28.7	27.6	28.0	25.1	25.4	27.5	27.7
	Other/Unknown	45.8	51.4	45.7	48.8	34.5	43.8	35.9	40.4	40.6	46.5
Retiree/Depend of Retir/Surviv/Other 65+	Air Force	76.1	79.3	76.1	77.0	75.0	76.9	72.4	73.7	74.9	76.7
	Army	71.8	73.9	75.3	74.5	68.0	69.6	66.8	68.3	70.5	71.6
	Coast Guard	73.0	71.7	84.8	87.1	85.0	86.4	66.7	65.6	78.4	79.0
	Marine Corps	75.3	77.0	79.5	78.8	69.1	67.7	71.9	74.8	73.7	74.5
	Navy	73.0	75.3	74.5	78.3	72.6	75.8	67.8	67.5	72.0	74.2
	Other/Unknown	83.3	91.8	100.0	100.0	75.0	67.3	90.0	94.7	86.2	86.7
Retiree/Depend of Retir/Surviv/Other <65	Air Force	51.0	52.7	53.4	53.9	48.8	51.1	47.2	49.2	50.1	51.7
	Army	49.1	51.5	49.7	51.0	46.5	50.3	45.8	49.2	47.8	50.5
	Coast Guard	57.0	60.1	48.6	53.3	41.5	35.8	43.8	41.2	47.8	48.2
	Marine Corps	47.0	49.7	47.4	48.2	43.3	45.8	40.5	41.1	44.7	46.4
	Navy	48.2	50.6	51.2	52.4	47.3	48.4	46.6	47.7	48.3	49.8
	Other/Unknown	61.5	63.9	53.3	64.8	57.1	47.1	54.2	52.0	56.2	55.2

RR=Unweighted

RR_W=Weighted

APPENDIX E

TECHNICAL DESCRIPTION OF THE 2006 TRICARE BENEFICIARY REPORTS

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The beneficiary reports will present 12 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; courteous and helpful office staff; 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 2006 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 doctors' offices, 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 lists the questions and response choices for the CAHPS composites in the beneficiary reports. Question numbers refer to the CAHPS 3.0 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, PCM, 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 mean are multiplied by 100 so that the score are presented on a scale of 0 to 100.

In 2006, HCSDb questions are taken from CAHPS version 3.0 instead of CAHPS version 2.0. The new CAHPS questions are presented just as the old ones were. Trend pages include scores from 2006, 2005, and 2004, calculated using questions from both CAHPS versions. Both CAHPS 2.0 and 3.0 benchmarks are provided for comparison. When new scores are not comparable to the old, previous values are adjusted to account for the shift.

TABLE E.2

CAHPS 3.0 QUESTIONS AND RESPONSE CHOICES
EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT QUESTIONNAIRE CAHPS 3.0	GETTING NEEDED CARE	RESPONSE CHOICE
Q7	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?	A big problem A small problem Not a problem
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
Q24	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?	A big problem A small problem Not a problem
GETTING CARE QUICKLY		
Q14	In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed?	Never Sometimes Usually Always
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
Q25	In the last 12 months, how often were you taken to the exam room within 15 minutes of your appointment?	Never Sometimes Usually Always

ADULT QUESTIONNAIRE CAHPS 3.0	COURTEOUS AND HELPFUL OFFICE STAFF	RESPONSE CHOICE
Q26	In the last 12 months, how often did office staff at a doctor's office or clinic treat you with courtesy and respect?	Never Sometimes Usually Always
Q27	In the last 12 months, how often were office staff at a doctor's office or clinic as helpful as you thought they should be?	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
CUSTOMER SERVICE		
Q33	In the last 12 months, did you look for any information about how your health plan works in written material or on the internet?	Yes No
Q34	In the last 12 months, how much of a problem, if any, was it to find or understand this information?	A big problem A small problem Not a problem
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
Q38	In the last 12 months, how much of a problem, if any, did you have with paperwork for your health plan?	A big problem A small problem Not a problem

ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 3.0	CLAIMS PROCESSING	RESPONSE CHOICE
--	-------------------	-----------------

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
-----	---	---

ADULT QUESTIONNAIRE CAHPS 3.0	RATING OF ALL HEALTH CARE	
-------------------------------	---------------------------	--

Q32	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
-----	---	---

	RATING OF HEALTH PLAN	
--	-----------------------	--

Q39	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
-----	---	---

ADULT QUESTIONNAIRE CAHPS 3.0	RATING OF PERSONAL DOCTOR	RESPONSE CHOICE
Q5	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	
Q11	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

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 2006 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

2006 Q1 ADULT HCSDB QUESTION	COMPOSITE PREVENTIVE CARE	RESPONSE CHOICES
H06049	When did you last have a blood pressure reading?	Less than 12 months ago 1 to 2 years ago More than 2 years ago
H06050	Do you know if your blood pressure is too high?	Yes, it is too high No, it is not too high Don't know
H06059	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
H06061	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
H06065	In which trimester did you first receive prenatal care?	First trimester Second trimester Third trimester Did not receive prenatal care
H06068F, H06068I	How tall are you without your shoes on? Please give your answer in feet and inches.	_____ feet _____ inches
H06069	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 normal BMI ratio. The composite weights these three measures equally.

TABLE E.4

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
H13	Do you now smoke every day, some days or not at all?	Every day Some days Not at all Don't know
H14	How long has it been since you <u>quit smoking</u> cigarettes?	12 months or less More than 12 months Don't know
H15	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

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APPENDIX F

SAS CODE FOR FILE DEVELOPMENT – QUARTERS I-IV

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F.1 Q4FY2006\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) DODyyQn.SD2 - Quarterly DOD Health Survey Data from Synovate
*           where n = Quarter Number
*           yy = Survey Administration Year
*           3) BWT.SD7 - MPR Sampling and DEERS variables
*           4) SAMPLA02.SD2 - DEERS variables
*
* OUTPUTS:  1) MERGESYN.SD2 - Quarterly DOD Health Survey Data
*           (Combined SYNOVATE, MPR, and DEERS variables)
*
*****;
LIBNAME INv6 v612 "..\..\DATA\afinal";
LIBNAME INv8 v8  "..\..\DATA\afinal";
LIBNAME OUT v612 "..\..\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 = 07012006; * mmdyyy;
%LET FIELDLBL = July 1st 2006;
%LET QUARTER = Q4FY2006;
%LET NUNPD = 23; *Add 1 to number of Quarters processed each quarter;

*****
* SORT the Synovate-Provided file and the original sample (BWT).
*****;
PROC SORT DATA=INv8.dod06q4f OUT=SYNFILE;
    BY MPRID;
RUN;

DATA SYNFILE;
    LENGTH MPRID $8;
    SET SYNFILE;
RUN;

PROC SORT DATA=INv8.BWT OUT=BWT; BY MPRID; RUN;

*****
* Attach DEERS variables to the combined file that were omitted from the
* BWT file.
*****;
PROC SORT DATA=INv6.SAMPLA02 OUT=SAMPLA02
    (KEEP=MPRID DAGEQY DBENCAT DCATCH DMEDELG DSPONSVC LEGDSD MBRRELCD
    MEDTYPE MRTLSTAT PATCAT PCM RACEETHN
    PNLSTAT PNBRTHTD PAYPLNCD E1-E&NUNPD 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;

*****
* DROP variables that are not needed.
*****;
DROP SVCCD GEOSMPL GEOCELL EBG_COM EBSMPL
D_INSTAL;
*****
* Construct SERVAREA.
*****;
IF ENBGSMPL 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;

LABEL CACSMPL = 'CACSMPL - Catchment Area'
BWT = 'BWT - Basic Sampling Weight'
ENBGSMPL = 'ENBGSMPL - Beneficiary/Enrollment Status'
NHFF = 'NHFF - Stratum Sample Size'
SERVAREA = 'Service Area'
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 PNBRTHTD using fielding period
* starting date.
*****;
FIELDAGE = INPUT("&FIELDAGE",mmdyy8.);
DOB = SUBSTR(PNBRTHTD,5,2) || SUBSTR(PNBRTHTD,7,2) || SUBSTR(PNBRTHTD,1,4);
BRTHDATE = INPUT(DOB,mmdyy8.);

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 FIELDAGE DOB BRTHDATE PNBRTHTD PAYPLNCD;

RUN;

TITLE1 "Quarterly DOD Health Survey - Combine SYNOVATE, MPR and DEERS variables (6077-300)";
TITLE2 "Program Name: MERGESYN.SAS By Jacqueline Agufa";
TITLE3 "Program Inputs: DODyyQn.SD7, BWT.SD7, FRAMEA.SD2 -- Program Output: MERGESYN.SD2";

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'
    '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"
  ;

RUN;

PROC FREQ DATA=OUT.MERGESYN(DROP=MPRID PRN MIQCNTL);
  TABLES WEB FLAG_FIN DAGEQY*FIELDAGE ACV PCM ENBGSMPL
    ACV*PCM ACV*ENBGSMPL
    _ALL_ /MISSING LIST;
  FORMAT ACV $ACV. ENBGSMPL $ENBGS.;
RUN;

```

F.2.A Q1FY2006T\PROGRAMS\CODINGScheme\Cschm05Q.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES FOR QUARTER 1 FY2006.

```
*****;
* Program: Cschm05q.sas
* Written: 06/04/2001
* Author: C. Rankin
*
* Input: MERGENRC.SD2 - Merged MPR Sampling, DEERS, and Synovate Response Data
* Output: CSCHM05Q.SD2 - 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
*           5/27/2003 - Updated Variable names for Q2 2003
*           12/05/2003 - Updated Variable names for Q4 2003
*           3/25/2004 - Updated Variable names for Q1 2004
*           6/3/2004 - Updated Variable names for Q2 2004
*           8/23/2004 - Updated Variable names for Q3 2004
*           1/13/2005 - Updated Variable names for Q4 2004
*           4/13/2005 - Updated Variable names for Q1 2005
*           7/20/2005 - Updated Variable names for Q2 2005
*           10/14/2005 - Updated Variable names for Q3 2005
*           12/22/2005 - Updated Variable names for Q4 2005
* Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
*          Response Data, check for consistency in responses and skip
*          patterns
* Include
* files: Cschm05q.fmt
*****;
```

```
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
```

```
LIBNAME LIBRARY v612 "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN v612 "..\..\DATA\AFINAL";
LIBNAME OUT v612 "..\..\DATA\AFINAL";
```

```
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM05Q;
%LET PERIOD=October, 2004 to September, 2005;
```

```
/* Variable names in survey -- become recoded variables */
```

```
%Let varlist1 =
```

```
H05001 H05002A H05002C H05002F H05002G H05002H H05002I H05002J
H05002K H05002L H05002M H05002N H05002O H05002P
H05003 H05004 H05005 H05006 H05007
H05008 H05009 H05010 H05011 H05012 H05013
H05014 H05015 H05016 H05017 H05018 H05019 H05020 H05021
H05022 H05023 H05024 H05025 H05026 H05027 H05028 H05029
H05030 H05031 H05032 H05033 H05034 H05035 H05036 H05037
H05038 H05039 H05040 H05041 H05042 H05043 H05044 H05045
H05046 H05047 H05048

S05G18 S05G19 S05G20 S05G21 S05G22 S05G23 S05G24 S05G25
S05G26 S05G27 S05G28 S05G29A S05G29B S05G29C S05G29D S05G29E
S05G29F S05G29G S05G29H S05G29I S05G29J S05G29K
S05G30 S05G31 S05G32 S05G33 S05G34 S05G35 S05G36 S05G37
S05G38 S05G39

H05049 H05050 H05051 H05052 H05053 H05054
```

```

H05055 H05056 H05057 H05058 H05059 H05060 H05061
H05063 H05064 H05065
H05066 H05067
S05H01F S05H01I S05H02
SREDA
H05068 H05068A H05068B H05068C H05068D H05068E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE
;

/* _O variables are the original values from the survey response */

%Let varlist2 =
H05001_O H05002AO H05002CO H05002FO H05002GO H05002HO H05002IO H05002JO
H05002KO H05002LO H05002MO H05002NO H05002OO H05002PO
H05003_O H05004_O H05005_O H05006_O H05007_O
H05008_O H05009_O H05010_O H05011_O H05012_O H05013_O
H05014_O H05015_O H05016_O H05017_O H05018_O H05019_O H05020_O H05021_O
H05022_O H05023_O H05024_O H05025_O H05026_O H05027_O H05028_O H05029_O
H05030_O H05031_O H05032_O H05033_O H05034_O H05035_O H05036_O H05037_O
H05038_O H05039_O H05040_O H05041_O H05042_O H05043_O H05044_O H05045_O
H05046_O H05047_O H05048_O

S05G18_O S05G19_O S05G20_O S05G21_O S05G22_O S05G23_O S05G24_O S05G25_O
S05G26_O S05G27_O S05G28_O S05G29AO S05G29BO S05G29CO S05G29DO S05G29EO
S05G29FO S05G29GO S05G29HO S05G29IO S05G29JO S05G29KO
S05G30_O S05G31_O S05G32_O S05G33_O S05G34_O S05G35_O S05G36_O S05G37_O
S05G38_O S05G39_O

H05049_O H05050_O H05051_O H05052_O H05053_O H05054_O
H05055_O H05056_O H05057_O H05058_O H05059_O H05060_O H05061_O
H05063_O H05064_O H05065_O
H05066_O H05067_O
S05H01FO S05H01IO S05H02_O
SREDA_O
H05068_O H05068AO H05068BO H05068CO H05068DO H05068EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O
;

TITLE "DoD 2005 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";

DATA MERGESYN;

SET IN.MERGESYN(RENAME=(S05H02=S05H02CH S05G38=S05G38CH));

*****;
* 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 S05H01F LT 1 THEN S05H01F=S05H01FN;
IF S05H01I IN (-9,.) THEN S05H01I=S05H01IN;

S05H02= COMPRESS(S05H02CH,' ')*1;

DROP S05H02CH;

IF S05H02=0 AND S05H02N=-9 THEN S05H02 =S05H02N;
IF S05H02<100 AND S05H02N NE -9 THEN S05H02 =S05H02N;

```

```

*** Correct odd height and weights Per Eric Schone;

IF S05H01F < 2 OR
   S05H01F > 8
THEN S05H01F= -7;

IF S05H02 < 40 OR
   S05H02 > 1000
THEN S05H02= -7;

IF S05H02=997 THEN S05H02=-7;

S05G38= COMPRESS(S05G38CH,' ')*1;

DROP S05G38CH;

IF S05G38N > S05G38   THEN S05G38 =S05G38N;
ELSE IF S05G38N= -5   THEN S05G38 = -5;

/* JMA Q4 2005
****in Q4 2005, the responses were increased to distinguish the
****Spanish, Hispanic or Latin origin. Multiple responses
****were given to this question so H05068 is being created
****from the multiple responses.;
*/

cnthsp=0;

ARRAY hisp H05068A H05068B H05068C H05068D H05068E;

DO OVER hisp;
   IF hisp=1 THEN cnthsp=cnthsp+1;
END;

IF cnthsp>1 THEN H05068=-8;
ELSE IF H05068A=1 THEN H05068=1;
ELSE IF H05068B=1 THEN H05068=2;
ELSE IF H05068C=1 THEN H05068=3;
ELSE IF H05068D=1 THEN H05068=4;
ELSE IF H05068E=1 THEN H05068=5;

drop cnthsp;

RUN;

DATA OUT.CSCHM05Q;

LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
INFORMAT &VARLIST2. 4.;
%INCLUDE "CSCHM05Q.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
2005 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(*) H05002A H05002C H05002F H05002G H05002H H05002I
H05002J H05002K H05002L H05002M H05002N H05002O
H05002P
S05G29A S05G29B S05G29C S05G29D S05G29E S05G29F
S05G29G S05G29H S05G29I S05G29J S05G29K

H05068A H05068B H05068C H05068D H05068E

SRRACEA SRRACEB SRRACEC SRRACED SRRACEE

;

ARRAY INFORMAT(*) H05002AO H05002CO H05002FO H05002GO H05002HO H05002IO
H05002JO H05002KO H05002LO H05002MO H05002NO H05002OO
H05002PO
S05G29AO S05G29BO S05G29CO S05G29DO S05G29EO S05G29FO
S05G29GO S05G29HO S05G29IO S05G29JO S05G29KO

H05068AO H05068BO H05068CO H05068DO H05068EO

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 H05002A H05002C H05002F H05002G H05002H H05002I
H05002J H05002K H05002L H05002M H05002N H05002O H05002P

S05G29A S05G29B S05G29C S05G29D S05G29E S05G29F
S05G29G S05G29H S05G29I S05G29J S05G29K

H05068A H05068B H05068C H05068D H05068E

```

```
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
MARKED.;
```

```
*****;
```

```
/* skip coding scheme for all surveys not returned */
```

```
IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;
```

```
/** Note 1 -- H05006, H05007 health plan usage */
```

```
IF H05006 > 0 OR H05006 =.D THEN N1=1;
ELSE IF H05006=.N THEN DO;
  IF H05007 NOT=. THEN DO;
    N1=2;
    H05007=.C;
  END;
ELSE DO;
  N1=3;
  H05007=.N;
END;
ELSE IF H05006=. THEN N1=4;
```

```
/** Note 2 -- H05008 H05009 H05010 H05011: Personal doctor or nurse */
```

```
IF H05008 IN (1,.) AND H05009 = .N THEN DO;
  H05008 = 2;
  H05009 =.C;
  IF H05010=. THEN H05010=.N;
  ELSE H05010=.C;
  N2=1;
END;
ELSE IF H05008 IN (1) AND H05009 NE .N THEN DO;
  IF H05010 IN (1) AND H05011 IN (1,2,3) THEN DO;
    H05011=.C;
    N2=2;
  END;
  ELSE IF H05010 IN (.) AND H05011 IN (1,2,3) THEN DO;
    H05010=2;
    N2=3;
  END;
  ELSE IF H05010 IN (1) AND H05011 IN (.) THEN DO;
    H05011=.N;
    N2=4;
  END;
  ELSE IF H05010 IN (2) THEN DO;
    N2=5;
  END;
  ELSE IF H05010 IN (.) AND H05011 IN (.) THEN DO;
    N2=6;
  END;
END;
ELSE IF H05008 IN (2,.) THEN DO;
  IF H05009 NOT IN (.N, .) AND H05010 IN (1,.) AND H05011 IN (1,2,3)
  THEN DO;
    H05008=1;
    H05010=2;
    N2=7;
  END;
  ELSE IF H05009 IN (.) AND H05010 IN (1) AND H05011 IN (1,2,3)
  THEN DO;
    H05008=1;
    H05010=2;
    N2=8;
  END;
  ELSE IF H05008 = 2 AND H05009 IN (.N)
  THEN DO;
    H05009=.C;
    IF H05010=. THEN H05010=.N;
    ELSE H05010=.C;
```

```

        N2=9;
    END;
    ELSE IF H05010 IN (1) AND H05011 IN (.)
    THEN DO;
        H05008=1;
        H05011=.N;
        N2=10;
    END;
    ELSE IF H05010 IN (2)
    THEN DO;
        H05008=1;
        N2=11;
    END;
    ELSE IF H05009 NOT IN (.N, .) AND H05010 IN (.) AND H05011 IN (.)
    THEN DO;
        H05008=1;
        N2=12;
    END;
    ELSE IF H05008=2 AND H05009 In (.) AND H05010= . THEN DO;
        H05009=.N;
        H05010=.N;
        N2=13;
    END;
    ELSE IF H05008=. AND H05009=. AND H05010=. THEN DO;
        N2=14;
    END;
END;

```

/** Note 3 -- H05012, H05013: needed to see a specialist in last 12 months **/

```

    IF H05012=1 AND H05013 IN (1,2,3,.) THEN N3=1;
    ELSE IF H05012 IN (1,.) AND H05013=.N THEN DO;
        H05012=2;
        H05013=.C;
        N3=2;
    END;
    ELSE IF H05012 IN (2,.) AND H05013 IN (1,2,3) THEN DO;
        H05012=1;
        N3=3;
    END;
    ELSE IF H05012=2 AND H05013 IN (.,.N) THEN DO;
        IF H05013=. THEN H05013=.N;
        ELSE H05013=.C;
        N3=4;
    END;
    ELSE IF H05012=. AND H05013=. THEN N3=5;

```

/** Note 4 -- H05014, H05015: saw a specialist in last 12 months **/

```

    IF H05014=1 AND H05015 IN (0,1,2,3,4,5,6,7,8,9,10,.) THEN N4=1;
    ELSE IF H05014 IN (1,.) AND H05015=.N THEN DO;
        H05014=2;
        H05015=.C;
        N4=2;
    END;
    ELSE IF H05014 IN (2,.) AND H05015 IN (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
        H05014=1;
        N4=3;
    END;
    ELSE IF H05014=2 AND H05015 IN (.,.N) THEN DO;
        IF H05015=. THEN H05015=.N;
        ELSE H05015=.C;
        N4=4;
    END;
    ELSE IF H05014=. AND H05015=. THEN N4=5;

```

```

/** Note 5 -- called a doctor's office:  H05016, H05017 **/

IF H05016=1 AND H05017 IN (1,2,3,4,.) THEN N5=1;
ELSE IF H05016 IN (1,.) AND H05017=.N THEN DO;
  H05016=2;
  H05017=.C;
  N5=2;
END;
ELSE IF H05016 IN (2,.) AND H05017 IN (1,2,3,4) THEN DO;
  H05016=1;
  N5=3;
END;
ELSE IF H05016=2 AND H05017 IN (.,.N) THEN DO;
  IF H05017=. THEN H05017=.N;
  ELSE H05017=.C;
  N5=4;
END;
ELSE IF H05016=. AND H05017=. THEN N5=5;

/** Note 6 -- H05018,H05019,H05020:  illness or injury **/

ARRAY NOTE6 H05019 H05020;
N6MARK=0;
N6NMISS=0;
N6NN=0;

DO OVER NOTE6;
  IF NOTE6 NE . THEN N6NMISS+1;
  IF NOTE6 NOT IN (.N,.) THEN N6MARK+1;
  IF NOTE6 EQ .N THEN N6NN+1;
END;

IF H05018=1 AND N6NMISS=0 THEN DO;
  N6=1;
END;
ELSE IF H05018 IN (1,.) AND N6NMISS>0 AND N6MARK=0 THEN DO;
  H05018=2;
  N6=2;
  DO OVER NOTE6;
    IF NOTE6=. THEN NOTE6=.N;
    ELSE NOTE6=.C;
  END;
END;
ELSE IF H05018=1 AND N6MARK=1 AND N6NN=1 THEN DO;
  DO OVER NOTE6;
    IF NOTE6=.N THEN NOTE6=.;
  END;
  N6=3;
END;
ELSE IF H05018=1 AND N6MARK>0 THEN DO;
  N6=4;
END;
ELSE IF H05018=2 AND N6MARK=1 AND N6NN=1 THEN DO;
  H05019=.C;
  H05020=.C;
  N6=5;
END;
ELSE IF H05018 IN (2,.) AND N6MARK>0 THEN DO;
  H05018=1;
  N6=6;
  DO OVER NOTE6;
    IF NOTE6=.N THEN NOTE6=.;
  END;
END;
ELSE IF H05018=2 AND (N6NMISS=0 OR (N6NMISS>0 AND N6MARK=0)) THEN DO;
  N6=7;
  DO OVER NOTE6;
    IF NOTE6=. THEN NOTE6=.N;
    ELSE NOTE6=.C;
  END;
END;

```



```

ELSE IF H05018=. AND N6MARK=1 AND N6NN=1 THEN DO;
  H05018=2;
  H05019=.C;
  H05020=.C;
  N6=8;
END;
ELSE IF H05018=. AND N6NMISS=0 THEN N6=9;

DROP N6NMISS N6MARK N6NN;

/** Note 7 -- H05021,H05022,H05023: regular or routine healthcare **/

ARRAY NOTE7 H05022 H05023;
N7MARK=0;
N7NMISS=0;
N7NN=0;

DO OVER NOTE7;
  IF NOTE7 NE . THEN N7NMISS+1;
  IF NOTE7 NOT IN (.N,.) THEN N7MARK+1;
  IF NOTE7 EQ .N THEN N7NN+1;
END;

IF H05021=1 AND N7NMISS=0 THEN DO;
  N7=1;
END;
ELSE IF H05021 IN (1,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
  H05021=2;
  N7=2;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
END;
ELSE IF H05021=1 AND N7MARK=1 AND N7NN=1 THEN DO;
  DO OVER NOTE7;
    IF NOTE7=.N THEN NOTE7=.;
  END;
  N7=3;
END;
ELSE IF H05021=1 AND N7MARK>0 THEN DO;
  N7=4;
END;
ELSE IF H05021=2 AND N7MARK=1 AND N7NN=1 THEN DO;
  H05022=.C;
  H05023=.C;
  N7=5;
END;
ELSE IF H05021 IN (2,.) AND N7MARK>0 THEN DO;
  H05021=1;
  N7=6;
  DO OVER NOTE7;
    IF NOTE7=.N THEN NOTE7=.;
  END;
END;
ELSE IF H05021=2 AND (N7NMISS=0 OR (N7NMISS>0 AND N7MARK=0)) THEN DO;
  N7=7;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
END;
ELSE IF H05021=. AND N7MARK=1 AND N7NN=1 THEN DO;
  H05021=2;
  H05022=.C;
  H05023=.C;
  N7=8;
END;
ELSE IF H05021=. AND N7NMISS=0 THEN N7=9;

```

```

DROP N7NMISS N7MARK N7NN;

/** Note 8 -- H05025, H05026-H05037: doctor's office or clinic **/

ARRAY NOTE8 H05026-H05037;

N8MARK=0;
N8NMISS=0;

DO OVER NOTE8;
  IF NOTE8 NE . THEN N8NMISS+1;
  IF NOTE8 NOT IN (., .N) THEN N8MARK+1;
END;

IF H05025=1 THEN DO;
  N8=1;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF H05025 IN (2,3,4,5,6,7,..) AND N8NMISS>0 AND N8MARK=0 THEN DO;
  H05025=1;
  N8=2;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF H05025 IN (2,3,4,5,6,7) AND (N8NMISS=0 OR N8MARK>0) THEN DO;
  DO OVER NOTE8;
    IF NOTE8=.N THEN NOTE8=.;
  END;
  N8=3;
END;
ELSE IF H05025=. AND N8NMISS=0 THEN N8=4;
ELSE IF H05025 IN (.) AND N8MARK>0 THEN N8=5;

DROP N8NMISS N8MARK;

/** Note 9 -- You or doctor believed you needed care, tests or treatment:
H05026, H05027 **/

IF H05026 IN (.N, .C) THEN N9=1;
ELSE IF H05026=1 AND H05027 IN (1,2,3,..) THEN N9=2;
ELSE IF H05026 IN (1,..) AND H05027=.N THEN DO;
  H05026=2;
  H05027=.C;
  N9=3;
END;
ELSE IF H05026 IN (2,..) AND H05027 IN (1,2,3) THEN DO;
  H05026=1;
  N9=4;
END;
ELSE IF H05026=2 AND H05027 IN (.,.N) THEN DO;
  IF H05027=. THEN H05027=.N;
  ELSE H05027=.C;
  N9=5;
END;
ELSE IF H05026=. AND H05027=. THEN N9=6;

/** Note 10 -- Needed approval from healthplan for care, tests or treatment:
H05028, H05029 **/

IF H05028 IN (.N, .C) THEN N10=1;
ELSE IF H05028=1 AND H05029 IN (1,2,3,..) THEN N10=2;

```

```

ELSE IF H05028 IN (1,.) AND H05029=.N THEN DO;
  H05028=2;
  H05029=.C;
  N10=3;
END;
ELSE IF H05028 IN (2,.) AND H05029 IN (1,2,3) THEN DO;
  H05028=1;
  N10=4;
END;
ELSE IF H05028=2 AND H05029 IN (.,.N) THEN DO;
  IF H05029=. THEN H05029=.N;
  ELSE H05029=.C;
  N10=5;
END;
ELSE IF H05028=. AND H05029=. THEN N10=6;

/** Note 13 -- H05039, H05040-H05041: claims to health plan **/

  ARRAY NOTE13 H05040-H05041;
  N13MARK=0;
  N13NMISS=0;
  N13NDK=0;

DO OVER NOTE13;
  IF NOTE13 NE . THEN N13NMISS+1;
  IF NOTE13 NOT IN (.N,.) THEN N13MARK+1;
  IF NOTE13 NOT IN (.,.D) THEN N13NDK+1;
END;

IF H05039=1 AND
  (N13NMISS=0 OR (N13MARK>0 AND N13NDK>0) OR (N13NMISS>0 AND N13NDK=0))
THEN DO;
  N13=1;
  DO OVER NOTE13;
    IF NOTE13=.N THEN NOTE13=.;
  END;
END;
ELSE IF H05039 IN (1,.,.D) AND N13NMISS>0 AND N13MARK=0 THEN DO;
  N13=2;
  H05039=2;
  DO OVER NOTE13;
    IF NOTE13=. THEN NOTE13=.N;
    ELSE NOTE13=.C;
  END;
END;
ELSE IF H05039 IN (2,.,.D) AND
  ((N13MARK>0 AND N13NDK>0) OR (N13NMISS>0 AND N13NDK=0))
THEN DO;
  H05039=1;
  N13=3;
  DO OVER NOTE13;
    IF NOTE13=.N THEN NOTE13=.;
  END;
END;
ELSE IF H05039 IN (2) AND (N13NMISS=0 OR (N13NMISS>0 AND N13MARK=0)) THEN DO;
  N13=4;
  DO OVER NOTE13;
    IF NOTE13=. THEN NOTE13=.N;
    ELSE NOTE13=.C;
  END;
END;
ELSE IF H05039 IN (.D) AND N13NMISS=0 THEN DO;
  N13=5;
  DO OVER NOTE13;
    NOTE13=.N;
  END;
END;
ELSE IF H05039 IN (.) AND N13NMISS=0 THEN N13=6;

DROP N13NMISS N13MARK N13NDK;

```

```

/** NOTE14 -- H05042, H05043: **/

IF H05042=1 AND H05043 IN (1,2,3,.) THEN N14=1;
ELSE IF H05042 IN (1,.) AND H05043=.N THEN DO;
  H05042=2;
  H05043=.C;
  N14=2;
END;
ELSE IF H05042 IN (2,.) AND H05043 IN (1,2,3) THEN DO; /* JMA per Daisy's suggestion 3/20/03
*/
  H05042=1;
  N14=3;
END;
ELSE IF H05042=2 AND H05043 IN (.N,.) THEN DO;
  IF H05043=. THEN H05043=.N;
  ELSE H05043=.C;
  N14=4;
END;
ELSE IF H05042=. AND H05043=. THEN N14=5;

/** NOTE15 -- H05044, H05045: health plan's customer service **/

IF H05044=1 AND H05045 IN (1,2,3,.) THEN N15=1;
ELSE IF H05044 IN (1,.) AND H05045=.N THEN DO;
  H05044=2;
  H05045=.C;
  N15=2;
END;
ELSE IF H05044 IN (2,.) AND H05045 IN (1,2,3) THEN DO;
  H05044=1;
  N15=3;
END;
ELSE IF H05044=2 AND H05045 IN (.N,.) THEN DO;
  IF H05045=. THEN H05045=.N;
  ELSE H05045=.C;
  N15=4;
END;
ELSE IF H05044=. AND H05045=. THEN N15=5;

/** NOTE16 -- H05046, H05047: paperwork **/

IF H05046=1 AND H05047 IN (1,2,3,.) THEN N16=1;
ELSE IF H05046 IN (1,.) AND H05047=.N THEN DO;
  H05046=2;
  H05047=.C;
  N16=2;
END;
ELSE IF H05046 IN (2,.) AND H05047 IN (1,2,3) THEN DO;
  H05046=1;
  N16=3;
END;
ELSE IF H05046=2 AND H05047 IN (.N,.) THEN DO;
  IF H05047=. THEN H05047=.N;
  ELSE H05047=.C;
  N16=4;
END;
ELSE IF H05046=. AND H05047=. THEN N16=5;

/** Note 16A -- S05G18, S05G19-S05G39: self/parent/spouse reservist on active duty
for more than 30 consecutive days in support
of contingency operations in past year
**/

ARRAY NOTE16A S05G19-S05G28 S05G30-S05G39;
ARRAY NOTE16A2 S05G29A--S05G29K;

N16AMARK=0;

```

```

N16ANMISS=0;

DO OVER NOTE16A;
  IF NOTE16A NE . THEN N16ANMISS+1;
  IF NOTE16A NOT IN (.N,.) THEN N16AMARK+1;
END;

DO OVER NOTE16A2;
  IF NOTE16A2 NOT IN (.,2) THEN N16ANMISS+1;
  IF NOTE16A2 NOT IN (.N,.,2) THEN N16AMARK+1;
END;

IF S05G18=1
THEN DO;
  IF S05G19 IN (3,4) AND S05G23 IN (3,4) THEN DO;
    N16A=1;
    S05G18=2;
    DO OVER NOTE16A;
      IF NOTE16A = . THEN NOTE16A=.N;
      ELSE NOTE16A=.C;
    END;
    DO OVER NOTE16A2;
      IF NOTE16A2 IN (.,2) THEN NOTE16A2=.N;
      ELSE NOTE16A2=.C;
    END;
  END;
  ELSE N16A=2;
END;
ELSE IF S05G18 IN (2) THEN DO;
  N16A=3;
  DO OVER NOTE16A;
    IF NOTE16A = . THEN NOTE16A=.N;
    ELSE NOTE16A=.C;
  END;
  DO OVER NOTE16A2;
    IF NOTE16A2 IN (.,2) THEN NOTE16A2=.N;
    ELSE NOTE16A2=.C;
  END;
END;
ELSE IF S05G18 IN (.) AND N16ANMISS>0 THEN DO;
  IF S05G19 IN (3,4) AND S05G23 IN (3,4) THEN DO;
    N16A=4;
    S05G18=2;
    DO OVER NOTE16A;
      IF NOTE16A = . THEN NOTE16A=.N;
      ELSE NOTE16A=.C;
    END;
    DO OVER NOTE16A2;
      IF NOTE16A2 IN (.,2) THEN NOTE16A2=.N;
      ELSE NOTE16A2=.C;
    END;
  END;
  ELSE DO;
    N16A=5;
    S05G18=1;
  END;
END;
ELSE IF S05G18 IN (.) THEN DO;
  N16A=6;
  DO OVER NOTE16A;
    IF NOTE16A NE . THEN NOTE16A=. ;
  END;
  DO OVER NOTE16A2;
    IF NOTE16A2 NE . THEN NOTE16A2=. ;
  END;
END;

DROP N16ANMISS N16AMARK;

```

```

/** Note 16B -- S05G19, S05G20-S05G22
                : self reservist on active duty

```

for more than 30 consecutive days in support
of contingency operations in past year

**/

```
ARRAY NOTE16B S05G20--S05G22  
;
```

```
IF S05G19 In (.N, .C)  
THEN N16B=1;  
ELSE IF S05G19 IN (1,2) THEN DO;  
    N16B=2;  
END;  
ELSE IF S05G19 IN (3,4) THEN DO;  
    N16B=3;  
    DO OVER NOTE16B;  
        IF NOTE16B=. THEN NOTE16B=.N;  
        ELSE NOTE16B=.C;  
    END;  
END;  
ELSE IF S05G19=. THEN N16B=4;
```

```
/** Note 16C -- S05G23, S05G24-S05G26  
    : spouse/parent reservist on active duty  
    for more than 30 consecutive days in support  
    of contingency operations in past year  
**/
```

```
ARRAY NOTE16C S05G24--S05G26  
;
```

```
IF S05G23 In (.N, .C)  
THEN N16C=1;  
ELSE IF S05G23 IN (1,2) THEN DO;  
    N16C=2;  
END;  
ELSE IF S05G23 IN (3,4) THEN DO;  
    N16C=3;  
    DO OVER NOTE16C;  
        IF NOTE16C=. THEN NOTE16C=.N;  
        ELSE NOTE16C=.C;  
    END;  
END;  
ELSE IF S05G23=. THEN N16C=4;
```

```
/** Note 16D -- S05G28, S05G29A-S05G30  
    : current health care coverage **/
```

```
ARRAY NOTE16D S05G29A--S05G29K  
;
```

```
N16DNMISS=0;
```

```
DO OVER NOTE16D;  
    IF NOTE16D NOT IN (.,2) THEN N16DNMISS+1;  
END;
```

```
IF S05G28 In (.N, .C)  
THEN N16D=1;  
ELSE IF S05G28 IN (3) THEN DO;  
    N16D=2;  
END;  
ELSE IF S05G28 IN (1) THEN DO;  
    N16D=3;  
    DO OVER NOTE16D;
```

```

        IF NOTE16D IN (.,2) THEN NOTE16D=.N;
        ELSE NOTE16D=.C;
    END;

    IF S05G30 IN (.) THEN S05G30=.N;
    ELSE S05G30=.C;
END;
ELSE IF S05G28 IN (2,.D) THEN DO;
    N16D=4;
    DO OVER NOTE16D;
        IF NOTE16D IN (.,2) THEN NOTE16D=.N;
        ELSE NOTE16D=.C;
    END;
END;
ELSE IF S05G28=. THEN N16D=5;

DROP N16DNMISS;

/** Note 16E -- S05G32, S05G33-S05G34
    : Personal Dr **/

IF S05G32 In (.N, .C)
THEN N16E=1;
ELSE IF S05G32 IN (1) THEN DO;
    N16E=2;

    IF S05G33 IN (.N) THEN S05G33=. ;
    IF S05G34 IN (.N) THEN S05G34=. ;
END;
ELSE IF S05G32 IN (2) THEN DO;
    N16E=3;
    IF S05G33 IN (.) THEN S05G33=.N;
    ELSE S05G33=.C;
END;
ELSE IF S05G32 IN (.N) THEN DO;
    N16E=4;
    IF S05G33 IN (.) THEN S05G33=.N;
    ELSE S05G33=.C;
    IF S05G34 IN (.) THEN S05G34=.N;
    ELSE S05G34=.C;
END;
ELSE IF S05G32=. THEN N16E=5;

/** Note 16F -- S05G36, S05G37-S05G38
    : Deactivated after Nov 6, 2003 **/

IF S05G36 In (.N, .C)
THEN N16F=1;
ELSE IF S05G36 IN (1) THEN DO;
    IF S05G37 IN (1, .) THEN N16F=2;
    ELSE IF S05G37 IN (2, 3) THEN DO;
        N16F=3;
        IF S05G38 IN (.) THEN S05G38=.N;
        ELSE S05G38=.C;
    END;
END;
ELSE IF S05G36 IN (2, .D) THEN DO;
    N16F=4;
    IF S05G37 IN (.) THEN S05G37=.N;
    ELSE S05G37=.C;
    IF S05G38 IN (.) THEN S05G38=.N;
    ELSE S05G38=.C;
END;
ELSE IF S05G36=. THEN N16F=5;

/** Note 17 -- smoking: H05052, H05053-H05057 **/

ARRAY NOTE17 H05055 H05056 H05057;

```

```

IF H05052=1 and H05053 IN (3,4) THEN DO; /* still smoke */
  IF H05054 NE . THEN H05054=.C;
  ELSE H05054=.N;
  N17=1;
END;
ELSE IF H05052=1 AND H05053=2 THEN DO; /* quit */
  /* JMA March 25 2004,
  Updated because H05056 and H05057 have been added to the
  skip pattern */
  IF H05054 IN (2,.D) THEN DO; /* > 1 year ago */
    DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
  N17=2;
END;
ELSE IF H05054 IN (3,.) THEN N17=3; /* < 1 year ago */
END;
ELSE IF H05052=1 AND H05053 IN (.D,.) THEN DO; /* don't know */
  IF H05054=2 THEN DO; /* > 1 year ago */

  /* JMA March 25 2004,
  Updated because H05056 and H05057 have been added to the
  skip pattern */

  DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
  END;
  H05053=2;
  N17=4;
END;
ELSE IF H05054=3 THEN DO; /* < 1 year ago */
  H05053=2;
  N17=5;
END;
ELSE IF H05053 IN (.D) AND H05054 IN (.D,.) THEN DO;
  N17=6;
  IF H05054=. THEN H05054=.N;
  ELSE H05054=.C;
  DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
  END;
END;
ELSE IF H05053 IN (.) AND H05054 IN (.D) THEN DO;
  N17=7;
  DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
  END;
END;
ELSE IF H05053 IN (.) AND H05054 IN (.) THEN DO;
  N17=8;
END;
END;
ELSE IF H05052 IN (2,.D,.) AND H05053 IN (3,4) THEN DO;
  H05052=1;

  IF H05054 NE . THEN H05054=.C;
  ELSE H05054=.N;

  N17=9;
END;
ELSE IF H05052 IN (2,.D) AND H05053 IN (2,.D,.) THEN DO; /*never smoke*/
  /* JMA March 25 2004,
  Updated because H05056 and H05057 have been added to the
  skip pattern */

  IF H05053 NE . THEN H05053 =.C;
  ELSE H05053=.N;

```



```

IF H05054 NE . THEN H05054 =.C;
ELSE H05054=.N;

DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
END;

N17=10;
END;
ELSE IF H05052 IN ( .) THEN DO;
  IF (H05053 IN (2) AND
    H05054 IN (.) AND
    (H05055 IN (2,3,4,5) OR H05056 IN (2,3,4,5) OR H05057 IN (2,3,4,5)))
  THEN DO;
    /* JMA March 25 2004,
      Updated because H05056 and H05057 have been added to the
      skip pattern */

    H05052=1;
    H05054=3;
    N17=11;
  END;
ELSE IF H05053 IN (2,.) THEN DO; /*MRE/blank*/
  IF H05054 IN (2, .D) THEN DO;
    /* JMA March 25 2004,
      Updated because H05056 and H05057 have been added to the
      skip pattern */

    DO OVER NOTE17;
      IF NOTE17=. THEN NOTE17=.N;
      ELSE NOTE17=.C;
    END;
    N17=12;
  END;
ELSE IF H05054 IN (3,.) THEN DO;
  IF (H05055 IN (2,3,4,5) OR H05056 IN (2,3,4,5) OR H05057 IN (2,3,4,5))
  THEN DO;
    H05052=1;
    N17=13;
  END;
  ELSE N17=14;
END;
END;
ELSE IF H05053=.D THEN DO; /*MRE/blank*/
  /* JMA March 25 2004,
    Updated because H05056 and H05057 have been added to the
    skip pattern */

  IF H05054 NE . THEN H05054 =.C;
  ELSE H05054=.N;

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;

  N17=15;
END;
END;

/** Note 18 - gender H05058, SEX, H05059--H05065,
  XSEXA */

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

ARRAY fmaleval H05059 H05060 H05061 H05063 H05064 H05065
  ;

```

```

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

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

IF H05058=. THEN DO;
  IF (SEX='F' AND FEMALE) THEN DO;
    N18a=1;
    XSEXA=2;
  END;
  ELSE IF (SEX='F' AND FEMALE=0) THEN DO;
    N18a=2;
    XSEXA=2;
  END;
  ELSE IF (SEX='M' AND FEMALE) THEN DO;
    N18a=3;
    XSEXA=1;
  END;
  ELSE IF (SEX='M' AND FEMALE=0) THEN DO;
    N18a=4;
    XSEXA=1;
  END;
  ELSE IF ((SEX IN ('Z',' ') AND FEMALE)) THEN DO;
    N18a=5;
    XSEXA=2;
  END;
  ELSE IF (SEX='Z' AND FEMALE=0) THEN DO;
    N18a=6;
    XSEXA=.;
  END;
  ELSE IF (SEX=' ' AND FEMALE=0) THEN DO;
    N18a=7;
    XSEXA=.;
  END;
END;
ELSE IF (H05058=1) THEN DO;
  IF FEMALE=0 THEN DO;
    N18a=8;
    XSEXA=1;
  END;
  ELSE IF FEMALE THEN DO;
    IF SEX='F' THEN DO;
      N18a=9;
      XSEXA=2;
    END;
    ELSE DO;
      N18a=10;
      XSEXA=1;
    END;
  END;
END;
ELSE IF (H05058=2) THEN DO;
  IF FEMALE THEN DO;
    N18a=11;
    XSEXA=2;
  END;
  ELSE IF FEMALE=0 THEN DO;
    IF SEX='M' THEN DO;
      N18a=12;
      XSEXA=1;
    END;
    ELSE DO;
      N18a=13;
      XSEXA=2;
    END;
  END;
END;
END;

```

```

/* Note 18b - gender vs mammogram/paps/pregnancy */
/* REDEFINE FMALE TO LOOK ONLY AT MAMMOGRAM, PAP SMEAR ENTRIES and PREGNANCY */

ARRAY NOTE18b H05059 H05060 H05061 H05063 H05064 H05065
;

cntfemale=0;
DO OVER NOTE18b;          /* mammogram/pap smear/PREGNANT*/
  IF NOTE18b NE . THEN cntfemale=cntfemale+1;
END;

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

IF XSEXA=1 THEN DO;  /* male */
  IF FMALE=0 THEN DO;
    N18b=1;
    DO OVER NOTE18b;
      NOTE18b=.N;
    END;
  END; /* valid skip */
ELSE IF FMALE=1 THEN DO;
  N18b=2;
  DO OVER NOTE18b;
    IF NOTE18b=. THEN NOTE18b = .N;
    ELSE NOTE18b=.C;
  END;
END; /* inconsistent response */
END;
ELSE IF XSEXA=2 THEN N18b=3; /* female */
ELSE IF XSEXA=. THEN DO; /* missing sex */
  N18b=4;
  DO OVER NOTE18b;
    NOTE18b=.;
  END;
END;

DROP FMALE CNTFEMALE;

/* Note 19 - breast exam for female 40 or over */

IF XSEXA=1 THEN DO; /* male */
  IF (H05060=.C OR H05060=.N) AND (H05061=.C OR H05061=.N)
  THEN N19 = 1;
END;
ELSE IF XSEXA=2 THEN DO;
  IF H05060=2 THEN N19=2; /* female 40 or over */
  ELSE IF H05060=1 THEN DO; /* female < 40 */
    IF H05061 NE . THEN H05061=.C;
    ELSE H05061=.N;
    N19=3;
  END;
  ELSE IF H05060=. THEN DO;
    IF H05061 NE . THEN DO;
      H05060=2;
      N19=4;
    END;
    ELSE IF H05061=. THEN DO;
      IF AGE<40 THEN DO;
        H05060 = 1;
        H05061=.N;
        N19=5;
      END;
      ELSE IF AGE >= 40 THEN DO;
        H05060=1;
        H05061=.N;
        N19=6;
      END;
    ELSE IF AGE=. THEN N19=7;
  END;
END;

```

```

END;
END;
ELSE IF XSEXA=. THEN N19=8;

/* Note 20 - gender vs Pregnancy */

IF XSEXA=1 THEN N20=1;          /* male */
ELSE IF XSEXA=2 THEN DO;       /* female */
  IF H05063=1 THEN DO;         /* pregnant */
    IF H05064=1 THEN DO;
      N20=2;
      IF H05065=. THEN H05065 = .N;
      ELSE H05065=.C;
    END;
    ELSE IF H05064=2 AND H05065 IN (2) THEN DO;
      N20=3;
      H05065=. ;
    END;
    ELSE IF H05064=2 AND H05065 IN (4,3,1,.) THEN DO;
      N20=4;
    END;
    ELSE IF H05064 IN (3,.) THEN N20=5;
  END;
  ELSE IF H05063=2 THEN DO;
    IF H05064=. THEN H05064 = .N;
    ELSE H05064=.C;
    N20=6;
  END;
  ELSE IF H05063=3 THEN DO;
    N20=7;
    IF H05064=. THEN H05064 = .N;
    ELSE H05064=.C;
    IF H05065=. THEN H05065=.N;
    ELSE H05065=.C;
  END;
  ELSE IF H05063 IN (.) THEN DO;
    IF H05064=1 THEN DO;
      N20=8;
      H05063=1;
      IF H05065=. THEN H05065 = .N;
      ELSE H05065=.C;
    END;
    ELSE IF H05064=2 AND H05065 IN (2) THEN DO;
      N20=9;
      H05063=1;
      H05065=. ;
    END;
    ELSE IF H05064=2 AND H05065 IN (4,3,1) THEN DO;
      H05063=1;
      N20=10;
    END;
    ELSE IF H05064=3 THEN DO;
      H05063=1;
      N20=11;
    END;
    ELSE IF H05064=. THEN DO;
      N20=12;
    END;
  END;
END;
END;
ELSE IF XSEXA=. AND H05063 IN (.) THEN N20=13;

DROP AGE SEX;

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 FORMAT;
  VALUE GRID
    0='0'
    1-9999='>=1' ;
  VALUE $GRIDB
    1-5 = '1-5' ;
  VALUE $AGE
    018-039='<40'
    040-120='>=40';
  VALUE SCALE
    0-10='0-10';
  VALUE MARK
    1-6='Marked' ;
  VALUE MARKB
    2-7='Marked' ;

  VALUE MARKC
    1='1'
    2-HIGH='>1' ;

RUN;

proc contents data=out.cschm05q;
run;

```

F.2.B Q1FY2006T\PROGRAMS\CODINGScheme\CSCHM05Q.FMT - INCLUDE FILE FOR CODING SCHEME FOR QUARTER 1 FY2006.

/* Formats for original answers to survey questions,
after variables have been recoded */

```

FORMAT H05001    H05001_O YN.
        H05003    H05003_O MEDA.
        H05004    H05004_O MEDB.
        H05005    H05005_O MEDSUPP.
        H05006    H05006_O HPLAN1_.
        H05007    H05007_O HPTIME.

H05008 H05008_O  H05010 H05010_O  H05012 H05012_O
H05014 H05014_O  H05016 H05016_O  H05018 H05018_O
H05021 H05021_O  H05026 H05026_O  H05028 H05028_O
        YN.

H05009    H05009_O RATE1_.
H05011    H05011_O PROB1_.
H05013    H05013_O PROB2_.
H05015    H05015_O RATE2_.
H05017    H05017_O OFTEN1_.
H05019    H05019_O OFTEN2_.
H05020    H05020_O TIME1_.
H05022    H05022_O OFTEN3_.
H05023    H05023_O TIME2_.
H05024    H05024_O OFTEN4_.
H05025    H05025_O OFTEN4_.

H05027    H05027_O PROB3_.
H05029    H05029_O PROB3a.

H05030-H05036    H05030_O--H05036_O OFTEN5_.

H05037    H05037_O RATE3_.

H05038    H05038_O PLACE.

H05039    H05039_O YNDNK.

H05040--H05041    H05040_O--H05041_O OFTEN6_.

H05042 H05042_O  H05044 H05044_O
H05046 H05046_O  H05060 H05060_O
H05067 H05067_O
        YN.

H05043    H05043_O PROB8_.
H05045    H05045_O PROB9_.
H05047    H05047_O PROB10_.
H05048    H05048_O RATE4_.

S05G18    S05G18_O YN.
S05G19    S05G19_O RSRV1_.
S05G20    S05G20_O
S05G24    S05G24_O RSRV2_.
S05G21    S05G21_O RSRV3_.
S05G22    S05G22_O RSRV4_.
S05G23    S05G23_O RSRV5_.
S05G25    S05G25_O RSRV6_.
S05G26    S05G26_O RSRV7_.
S05G27    S05G27_O RSRV8_.
S05G28    S05G28_O RSRV9_.
S05G30    S05G30_O RSRV10_.
S05G31    S05G31_O RSRV11_.
S05G32    S05G32_O
S05G33    S05G33_O RSRV12_.
S05G34    S05G34_O RSRV13_.
S05G35    S05G35_O RSRV14_.
S05G36    S05G36_O RSRV15_.
S05G37    S05G37_O

```

S05G39 S05G39_O RSRV16_.
 S05G38 S05G38_O RSRV17_.

 H05049 H05049_O TIME5_.
 H05050 H05050_O YNBP_.
 H05051 H05051_O TIME7_.
 H05052 H05052_O YNDNK.
 H05053 H05053_O TIME8_.
 H05054 H05054_O TIME9_.
 H05055 H05055_O OFTEN7_.
 H05056 H05056_O OFTEN7_.
 H05057 H05057_O OFTEN7_.
 H05058 H05058_O SEX.
 H05059 H05059_O TIME11_.
 H05061 H05061_O TIME12_.
 H05063 H05063_O YNPREG.
 H05064 H05064_O PREG1_.
 H05065 H05065_O PREG2_.
 H05066 H05066_O HEALTH.

 SREDA SREDA_O EDUC.
 H05068 H05068_O HISP.
 SRAGE SRAGE_O AGEGRP.

S05H01F S05H01FO
 S05H01I S05H01IO
 S05H02 S05H02_O
 TIME14_.

MISS_1 MISS_4-MISS_9 MISS_TOT 4.
 e1 e2 e3 e4 e5 e6 e7 e8 e9 e10 e11 e12 e13 e14 e15 e16 e17
 e18 e19
 \$e_.;

LABEL H05001_O='Are you the person listed on envelope'
 H05001 ='Are you the person listed on envelope'
 H05002AO='Health plan(s) covered: TRICARE Prime'
 H05002A ='Health plan(s) covered: TRICARE Prime'
 H05002CO='Health plan(s) covered: TRICARE Ext/Stnd'
 H05002C ='Health plan(s) covered: TRICARE Ext/Stnd'
 H05002NO='Health plan(s) covered: TRICARE Plus'
 H05002N ='Health plan(s) covered: TRICARE Plus'
 H05002OO='Health plan(s) covered: TRICARE For Life'
 H05002O ='Health plan(s) covered: TRICARE For Life'
 H05002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
 H05002P ='Health plan(s) covered: TRICARE Supplmntl Ins'
 H05002FO='Health plan(s) covered: MEDICARE'
 H05002F ='Health plan(s) covered: MEDICARE'
 H05002GO='Health plan(s) covered: FEHBP'
 H05002G ='Health plan(s) covered: FEHBP'
 H05002HO='Health plan(s) covered: Medicaid'
 H05002H ='Health plan(s) covered: Medicaid'
 H05002IO='Health plan(s) covered: Civilian HMO'
 H05002I ='Health plan(s) covered: Civilian HMO'
 H05002JO='Health plan(s) covered: Other civilian'
 H05002J ='Health plan(s) covered: Other civilian'
 H05002KO='Health plan(s) covered: USFHP'
 H05002K ='Health plan(s) covered: USFHP'
 H05002MO='Health plan(s) covered: Veterans'
 H05002M ='Health plan(s) covered: Veterans'
 H05002LO='Health plan(s) covered: Not sure'
 H05002L ='Health plan(s) covered: Not sure'
 H05003 ='Currently Covered Medicare Part A'
 H05003_O='Currently Covered Medicare Part A'
 H05004 ='Currently Covered Medicare Part B'
 H05004_O='Currently Covered Medicare Part B'
 H05005 ='Currently Covered Medicare Supplemental'
 H05005_O='Currently Covered Medicare Supplemental'
 H05006_O='Which health plan did you use most'
 H05006 ='Which health plan did you use most'

H05007_O='Yrs in a row with health plan'
H05007 = 'Yrs in a row with health plan'
H05008_O='Have one person think of as personal Dr'
H05008 = 'Have one person think of as personal Dr'
H05009_O='Rating of your personal Dr or nurs'
H05009 = 'Rating of your personal Dr or nurs'
H05010_O='Same prs Dr/nurs before joined hlth pln'
H05010 = 'Same prs Dr/nurs before joined hlth pln'
H05011_O='Health plan: prblm to get Dr happy with'
H05011 = 'Health plan: prblm to get Dr happy with'
H05012_O='In lst yr:you/Dr think you need spclst'
H05012 = 'In lst yr:you/Dr think you need spclst'
H05013_O='In lst yr:how much prblm see spclst'
H05013 = 'In lst yr:how much prblm see spclst'
H05014_O='In lst yr:did you see a specialist'
H05014 = 'In lst yr:did you see a specialist'
H05015_O='Rating of specialist seen in lst yr'
H05015 = 'Rating of specialist seen in lst yr'
H05016_O='In lst yr:call Dr for help/advice'
H05016 = 'In lst yr:call Dr for help/advice'
H05017_O='In lst yr:when call how often get hlp nd'
H05017 = 'In lst yr:when call how often get hlp nd'
H05018_O='In lst yr:ill/injry/cond care right away'
H05018 = 'In lst yr:ill/injry/cond care right away'
H05019_O='In lst yr:get urgnt care as soon as wntd'
H05019 = 'In lst yr:get urgnt care as soon as wntd'
H05020_O='In lst yr:wait btwn try get care,see prv'
H05020 = 'In lst yr:wait btwn try get care,see prv'
H05021_O='In lst yr:make appts non-urgnt hlth care'
H05021 = 'In lst yr:make appts non-urgnt hlth care'
H05022_O='In lst yr:non-urg hlth cre appt whn wntd'
H05022 = 'In lst yr:non-urg hlth cre appt whn wntd'
H05023_O='In lst yr:days btwn appt & see prvder'
H05023 = 'In lst yr:days btwn appt & see prvder'
H05024_O='In lst yr:goto emrgncy rm for own care'
H05024 = 'In lst yr:goto emrgncy rm for own care'
H05025_O='In lst yr:goto Dr office/clinic for care'
H05025 = 'In lst yr:goto Dr office/clinic for care'
H05026_O='In lst yr:think need care/tests/trtmnt'
H05026 = 'In lst yr:think need care/tests/trtmnt'
H05027_O='In lst yr:prblm to get care thght ncssry'
H05027 = 'In lst yr:prblm to get care thght ncssry'
H05028_O='In lst yr:need apprvl care/tests/trtmnt'
H05028 = 'In lst yr:need apprvl care/tests/trtmnt'
H05029_O='In lst yr:prblm w/delays wait for apprv'
H05029 = 'In lst yr:prblm w/delays wait for apprv'
H05030_O='In lst yr:wait within 15 min appt see Dr'
H05030 = 'In lst yr:wait within 15 min appt see Dr'
H05031_O='In lst yr:how oftn treat w/crtsy/respct'
H05031 = 'In lst yr:how oftn treat w/crtsy/respct'
H05032_O='In lst yr:how oftn staff helpful'
H05032 = 'In lst yr:how oftn staff helpful'
H05033_O='In lst yr:how oftn Drs listen to you'
H05033 = 'In lst yr:how oftn Drs listen to you'
H05034_O='In lst yr:how oftn Drs explain things'
H05034 = 'In lst yr:how oftn Drs explain things'
H05035_O='In lst yr:how oftn Drs show respect'
H05035 = 'In lst yr:how oftn Drs show respect'
H05036_O='In lst yr:how oftn Drs spend enough time'
H05036 = 'In lst yr:how oftn Drs spend enough time'
H05037_O='Rating of all health care in lst yr'
H05037 = 'Rating of all health care in lst yr'
H05038_O='In lst yr:fcilty use most for Health care'
H05038 = 'In lst yr:fcilty use most for Health care'
H05039_O='In lst yr:send in any claims'
H05039 = 'In lst yr:send in any claims'
H05040_O='In lst yr:hlth pln handle in rsnble time'
H05040 = 'In lst yr:hlth pln handle in rsnble time'
H05041_O='In lst yr:how oftn handle correctly'
H05041 = 'In lst yr:how oftn handle correctly'
H05042_O='In lst yr:info in written materials'
H05042 = 'In lst yr:info in written materials'
H05043_O='In lst yr:prblm to find/undrstnd mtrls'

H05043 = 'In lst yr:prblm to find/undrstnd mtrls'
H05044_O= 'In lst yr:hlth plan customer srvc help'
H05044 = 'In lst yr:hlth plan customer srvc help'
H05045_O= 'In lst yr:prblm get help from cstmr srvc'
H05045 = 'In lst yr:prblm get help from cstmr srvc'
H05046_O= 'In lst yr:fill out paperwork'
H05046 = 'In lst yr:fill out paperwork'
H05047_O= 'In lst yr:prblms with paperwork'
H05047 = 'In lst yr:prblms with paperwork'
H05048 = 'Rating of all experience with hlth plan'
H05048_O= 'Rating of all experience with hlth plan'
H05049_O= 'Blood pressure: when lst reading'
H05049 = 'Blood pressure: when lst reading'
H05050_O= 'Blood pressure: know if too high or not'
H05050 = 'Blood pressure: know if too high or not'
H05051_O= 'When did you lst have a flu shot'
H05051 = 'When did you lst have a flu shot'
H05052 = 'Smoked at least 100 cigarettes in life'
H05052_O= 'Smoked at least 100 cigarettes in life'
H05053 = 'Smoke everyday, some days or not at all'
H05053_O= 'Smoke everyday, some days or not at all'
H05054_O= 'How long since you quit smoking'
H05054 = 'How long since you quit smoking'
H05055_O= 'Lst yr: # visits advised to quit smoking'
H05055 = 'Lst yr: # visits advised to quit smoking'
H05056 = '# visits recom medic assist quit smoking'
H05056_O= '# visits recom medic assist quit smoking'
H05057 = '# vist discu meth/strag asst quit smokng'
H05057_O= '# vist discu meth/strag asst quit smokng'
H05058_O= 'Are you male or female'
H05058 = 'Are you male or female'
H05059_O= 'Lst have a Pap smear test'
H05059 = 'Lst have a Pap smear test'
H05060_O= 'Are you under age 40'
H05060 = 'Are you under age 40'
H05061_O= 'Lst time: breasts checked mammography'
H05061 = 'Lst time: breasts checked mammography'
H05063_O= 'Been pregnant in lst yr or pregnant now'
H05063 = 'Been pregnant in lst yr or pregnant now'
H05064_O= 'In what trimester is your pregnancy'
H05064 = 'In what trimester is your pregnancy'
H05065_O= 'Trimester first received prenatal care'
H05065 = 'Trimester first received prenatal care'
H05066_O= 'In gnrl, how would you rate ovrall hlth'
H05066 = 'In gnrl, how would you rate ovrall hlth'
H05067_O= 'Impairment/Hlth prblm limit activities'
H05067 = 'Impairment/Hlth prblm limit activities'
SREDA_O = 'Highest grade completed'
SREDA = 'Highest grade completed'
H05068_O= 'Are you Spanish/Hispanic/Latino'
H05068 = 'Are you Spanish/Hispanic/Latino'
H05068AO= 'Not Spanish/Hispanic/Latino'
H05068A = 'Not Spanish/Hispanic/Latino'
H05068BO= 'Mexican, Mexican American, Chicano'
H05068B = 'Mexican, Mexican American, Chicano'
H05068CO= 'Puerto Rican'
H05068C = 'Puerto Rican'
H05068DO= 'Cuban'
H05068D = 'Cuban'
H05068EO= 'Other Spanish, Hispanic, or Latino'
H05068E = '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'

S05H01FO='Height without shoes (feet)'
 S05H01F ='Height without shoes (feet)'
 S05H01IO='Height without shoes (inches)'
 S05H01I ='Height without shoes (inches)'
 S05H02_O='Weight without shoes'
 S05H02 ='Weight without shoes'

S05G18 ='Self/Spouse/Parent rsrvst actv duty >30 cnsctv dys'
 S05G18_O='Self/Spouse/Parent rsrvst actv duty >30 cnsctv dys'
 S05G19 ='Resv actvatd-cntngncy oprtns- >30 cnsctv dys'
 S05G19_O='Resv actvatd-cntngncy oprtns- >30 cnsctv dys'
 S05G20 ='Operatn rcntly actvatd-cntngncy opratns'
 S05G20_O='Operatn rcntly actvatd-cntngncy opratns'
 S05G21 ='When activated for cntngncy opratn'
 S05G21_O='When activated for cntngncy opratn'
 S05G22 ='Time period of initial activation orders'
 S05G22_O='Time period of initial activation orders'
 S05G23 ='Sps/prnt resv actvatd-cntngncy oprtns- >30 cnsctv dys'
 S05G23_O='Sps/prnt resv actvatd-cntngncy oprtns- >30 cnsctv dys'
 S05G24 ='Operatn Sps/prnt rcntly actvatd-cntngncy opratns'
 S05G24_O='Operatn Sps/prnt rcntly actvatd-cntngncy opratns'
 S05G25 ='When Sps/prnt activated for cntngncy opratn'
 S05G25_O='When Sps/prnt activated for cntngncy opratn'
 S05G26 ='Time period of initial Sps/prnt activation orders'
 S05G26_O='Time period of initial Sps/prnt activation orders'
 S05G27 ='Cvln hlth ins:Bfr bcmng elgbl for TRICARE'
 S05G27_O='Cvln hlth ins:Bfr bcmng elgbl for TRICARE'
 S05G28 ='Current health care coverage'
 S05G28_O='Current health care coverage'
 S05G29A ='Dnt Use TRICARE:grtr choice of drs /w civ plan'
 S05G29AO='Dnt Use TRICARE:grtr choice of drs /w civ plan'
 S05G29B ='Dnt Use TRICARE:btr cstmr srvc /w civ plan'
 S05G29BO='Dnt Use TRICARE:btr cstmr srvc /w civ plan'
 S05G29C ='Dnt Use TRICARE:Prsnl dr not available'
 S05G29CO='Dnt Use TRICARE:Prsnl dr not available'
 S05G29D ='Dnt Use TRICARE:Benefits poor'
 S05G29DO='Dnt Use TRICARE:Benefits poor'
 S05G29E ='Dnt Use TRICARE:get care easier /w civ plan'
 S05G29EO='Dnt Use TRICARE:get care easier /w civ plan'
 S05G29F ='Dnt Use TRICARE:Cost less /w civ plan'
 S05G29FO='Dnt Use TRICARE:Cost less /w civ plan'
 S05G29G ='Dnt Use TRICARE:no mltry facilities near me'
 S05G29GO='Dnt Use TRICARE:no mltry facilities near me'
 S05G29H ='Dnt Use TRICARE:prefer civilian drs'
 S05G29HO='Dnt Use TRICARE:prefer civilian drs'
 S05G29I ='Dnt Use TRICARE:prefer civilian hospitals'
 S05G29IO='Dnt Use TRICARE:prefer civilian hospitals'
 S05G29J ='Dnt Use TRICARE:happy /w civ plan'
 S05G29JO='Dnt Use TRICARE:happy /w civ plan'
 S05G29K ='Dnt Use TRICARE:another reason'
 S05G29KO='Dnt Use TRICARE:another reason'
 S05G30 ='Self/plcy holder pay all/part cvlan hlth ins'
 S05G30_O='Self/plcy holder pay all/part cvlan hlth ins'
 S05G31 ='Prblm gttng info frm TRICARE benefits'
 S05G31_O='Prblm gttng info frm TRICARE benefits'
 S05G32 ='Is personal Dr a civilian'
 S05G32_O='Is personal Dr a civilian'
 S05G33 ='Personal Dr accpts TRICARE'
 S05G33_O='Personal Dr accpts TRICARE'
 S05G34 ='Snc TRICARE elgbl: difficult to see psrnl dr'
 S05G34_O='Snc TRICARE elgbl: difficult to see psrnl dr'
 S05G35 ='Snc TRICARE elgbl: difficult to see splst'
 S05G35_O='Snc TRICARE elgbl: difficult to see splst'
 S05G36 ='Self/fam Rsrvst deactivated aftr 11/6/03'
 S05G36_O='Self/fam Rsrvst deactivated aftr 11/6/03'
 S05G37 ='TRICARE Elgbl bfr rsrvst rprtd to actv dty'
 S05G37_O='TRICARE Elgbl bfr rsrvst rprtd to actv dty'
 S05G38 ='Time eligible for this coverage'
 S05G38_O='Time eligible for this coverage'
 S05G39 ='TRICARE Elgbl aftr self/rsrvst deactivated'
 S05G39_O='TRICARE Elgbl aftr self/rsrvst deactivated'

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"
N9 = "Coding Scheme Note 9"
N10= "Coding Scheme Note 10"
N13= "Coding Scheme Note 13"
N14= "Coding Scheme Note 14"
N15= "Coding Scheme Note 15"
N16= "Coding Scheme Note 16"
N16= "Coding Scheme Note 16"
N16A= "Coding Scheme Note 16A"
N16B= "Coding Scheme Note 16B"
N16C= "Coding Scheme Note 16C"
N16D= "Coding Scheme Note 16D"
N16E= "Coding Scheme Note 16E"
N16F= "Coding Scheme Note 16F"
N17= "Coding Scheme Note 17"
N18A= "Coding Scheme Note 18A"
N18B= "Coding Scheme Note 18B"
N19 = "Coding Scheme Note 19"
N20 = "Coding Scheme Note 20"

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 Q2FY2006\PROGRAMS\CODINGScheme\CSCHM06Q.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES FOR QUARTER 2 FY2006.

```
*****;
* Program: Cschm06q.sas
* Written: 06/04/2001
* Author: C. Rankin
*
* Input: MERGESYN.SD2 - Merged MPR Sampling, DEERS, and Synovate Response Data
* Output: CSCHM06Q.SD2 - 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
*           5/27/2003 - Updated Variable names for Q2 2003
*           12/05/2003 - Updated Variable names for Q4 2003
*           3/25/2004 - Updated Variable names for Q1 2004
*           6/3/2004 - Updated Variable names for Q2 2004
*           8/23/2004 - Updated Variable names for Q3 2004
*           1/13/2005 - Updated Variable names for Q4 2004
*           4/13/2005 - Updated Variable names for Q1 2005
*           7/20/2005 - Updated Variable names for Q2 2005
*           10/14/2005 - Updated Variable names for Q3 2005
*           12/22/2005 - Updated Variable names for Q4 2005
*           3/20/2006 - Updated Variable names for Q2 FY 2006
* Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
* Response Data, check for consistency in responses and skip
* patterns
* Include
* files: Cschm06q.fmt
*****;
```

```
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
```

```
LIBNAME LIBRARY v612 "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN v612 "..\..\DATA\AFINAL";
LIBNAME OUT v612 "..\..\DATA\AFINAL";
```

```
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM06Q;
%LET PERIOD=January, 2005 to December, 2005;
```

```
/* Variable names in survey -- become recoded variables */
```

```
%Let varlist1 =
```

```
H06001 H06002A H06002C H06002F H06002G H06002H H06002I H06002J H06002K
H06002L H06002M H06002N H06002O H06002P H06003 H06004 H06005 H06006
H06007 H06008 H06009 H06010 H06011 H06012 H06013 H06014 H06015
H06016 H06017 H06018 H06019 H06020 H06021 H06022 H06023 H06024
H06025 H06026 H06027 H06028 H06029 H06030 H06031 H06032 H06033
H06034 H06035 H06036 H06037 H06038
S06V01 S06V02 S06V05 S06V06 S06V07 S06V08 S06V09 S06V10 S06V11A
S06V11B S06V11C S06V11D S06V11E S06V11F S06V11G S06V11H S06V12A S06V12B
S06V12C S06V12D S06V12E S06V12F S06V12G S06V13 S06V14A S06V14B S06V14C
S06V14D S06V14E S06V14F S06V14G S06V14H S06V15 S06V16 S06V17 S06V18A
S06V18B S06V18C S06V18D S06V18E S06V18F S06V18G
H06039 H06040 H06041 H06042 H06043 H06044 H06045 H06046 H06047
H06048 H06049 H06050
S06Q01 S06Q02 S06Q03 S06Q04 S06Q05 S06Q06
H06051 H06052 H06053 H06054 H06055 H06056 H06057 H06058 H06059
H06060 H06061 H06063 H06064 H06065 H06066 H06067
```

```

H06068F H06068I H06069

H06070 H06070A H06070B H06070C H06070D H06070E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE SREDA
;

/* _O variables are the original values from the survey response */

%Let varlist2 =
H06001_O H06002AO H06002CO H06002FO H06002GO H06002HO H06002IO H06002JO H06002KO
H06002LO H06002MO H06002NO H06002OO H06002PO H06003_O H06004_O H06005_O H06006_O
H06007_O H06008_O H06009_O H06010_O H06011_O H06012_O H06013_O H06014_O H06015_O
H06016_O H06017_O H06018_O H06019_O H06020_O H06021_O H06022_O H06023_O H06024_O
H06025_O H06026_O H06027_O H06028_O H06029_O H06030_O H06031_O H06032_O H06033_O
H06034_O H06035_O H06036_O H06037_O H06038_O
S06V01_O S06V02_O S06V05_O S06V06_O S06V07_O S06V08_O S06V09_O S06V10_O S06V11AO
S06V11BO S06V11CO S06V11DO S06V11EO S06V11FO S06V11GO S06V11HO S06V12AO S06V12BO
S06V12CO S06V12DO S06V12EO S06V12FO S06V12GO S06V13_O S06V14AO S06V14BO S06V14CO
S06V14DO S06V14EO S06V14FO S06V14GO S06V14HO S06V15_O S06V16_O S06V17_O S06V18AO
S06V18BO S06V18CO S06V18DO S06V18EO S06V18FO S06V18GO
H06039_O H06040_O H06041_O H06042_O H06043_O H06044_O H06045_O H06046_O H06047_O
H06048_O H06049_O H06050_O
S06Q01_O S06Q02_O S06Q03_O S06Q04_O S06Q05_O S06Q06_O
H06051_O H06052_O H06053_O H06054_O H06055_O H06056_O H06057_O H06058_O H06059_O
H06060_O H06061_O H06063_O H06064_O H06065_O H06066_O H06067_O

H06068FO H06068IO H06069_O

H06070_O H06070AO H06070BO H06070CO H06070DO H06070EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O SREDA_O
;

TITLE "DoD 2006 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";

DATA MERGESYN;

    SET IN.MERGESYN(RENAME=(H06H69=H06069CH
                           H06H68F = H06068F
                           H06H68FN= H06068FN
                           H06H68I = H06068I
                           H06H68IN= H06068IN
                           H06H69N = H06069N
                           ));

*****;
* 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 H06068F LT 1 THEN H06068F=H06068FN;
IF H06068I IN (-9,.) THEN H06068I=H06068IN;

H06069= COMPRESS(H06069CH,' ')*1;

DROP H06069CH;

IF H06069=0 AND H06069N=-9 THEN H06069 =H06069N;
IF H06069<100 AND H06069N NE -9 THEN H06069 =H06069N;

```

```

*** Correct odd height and weights Per Eric Schone;

IF H06068F < 2 OR
   H06068F > 8
THEN H06068F= -7;

IF H06069 < 40 OR
   H06069 > 1000
THEN H06069= -7;

IF H06069=997 THEN H06069=-7;

/* JMA
***Multiple responses were given to this question so H06070 is being created
***from the multiple responses.;
*/

IF H06070B=1 THEN H06070=2;
ELSE IF H06070E=1 THEN H06070=5;
ELSE IF H06070C=1 THEN H06070=3;
ELSE IF H06070D=1 THEN H06070=4;
ELSE IF H06070A=1 THEN H06070=1;

RUN;

DATA OUT.CSCHM06Q;

   LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
   INFORMAT &VARLIST2. 4.;
   %INCLUDE "CSCHM06Q.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 2006 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;
   END;
END;

```

```

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(*)
  H06002A H06002C H06002F H06002G H06002H H06002I H06002J H06002K
  H06002L H06002M H06002N H06002O H06002P

  S06V11A S06V11B S06V11C S06V11D S06V11E S06V11F S06V11G S06V11H
  S06V12A S06V12B S06V12C S06V12D S06V12E S06V12F S06V12G
  S06V14A S06V14B S06V14C S06V14D S06V14E S06V14F S06V14G S06V14H
  S06V18A S06V18B S06V18C S06V18D S06V18E S06V18F S06V18G

  H06070A H06070B H06070C H06070D H06070E

  SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
;

ARRAY INFORMAT(*)
  H06002AO H06002CO H06002FO H06002GO H06002HO H06002IO
  H06002JO H06002KO H06002LO H06002MO H06002NO H06002OO H06002PO

  S06V11AO S06V11BO S06V11CO S06V11DO S06V11EO S06V11FO S06V11GO S06V11HO
  S06V12AO S06V12BO S06V12CO S06V12DO S06V12EO S06V12FO S06V12GO
  S06V14AO S06V14BO S06V14CO S06V14DO S06V14EO S06V14FO S06V14GO S06V14HO
  S06V18AO S06V18BO S06V18CO S06V18DO S06V18EO S06V18FO S06V18GO

  H06070AO H06070BO H06070CO H06070DO H06070EO
  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
  H06002A H06002C H06002F H06002G H06002H H06002I H06002J H06002K
  H06002L H06002M H06002N H06002O H06002P

  S06V11A S06V11B S06V11C S06V11D S06V11E S06V11F S06V11G S06V11H
  S06V12A S06V12B S06V12C S06V12D S06V12E S06V12F S06V12G
  S06V14A S06V14B S06V14C S06V14D S06V14E S06V14F S06V14G S06V14H
  S06V18A S06V18B S06V18C S06V18D S06V18E S06V18F S06V18G

  H06070A H06070B H06070C H06070D H06070E

  SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
MARKED.;

*****;

/* skip coding scheme for all surveys not returned */

IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;

/** Note 1 -- H06006, H06007 health plan usage */

IF H06006 > 0 OR H06006 =.D THEN N1=1;
ELSE IF H06006= .N THEN DO;
  IF H06007 NOT=. THEN DO;
    N1=2;

```

```

        H06007=.C;
    END;
    ELSE DO;
        N1=3;
        H06007=.N;
    END;
END;
ELSE IF H06006=. THEN N1=4;

/** Note 2 -- H06008 H06009 H06010 H06011: Personal doctor or nurse **/

IF H06008 IN (1,.) AND H06009 = .N THEN DO;
    H06008 = 2;
    H06009 =.C;
    IF H06010=. THEN H06010=.N;
    ELSE H06010=.C;
    N2=1;
END;
ELSE IF H06008 IN (1) AND H06009 NE .N THEN DO;
    IF H06010 IN (1) AND H06011 IN (1,2,3) THEN DO;
        H06011=.C;
        N2=2;
    END;
    ELSE IF H06010 IN (.) AND H06011 IN (1,2,3) THEN DO;
        H06010=2;
        N2=3;
    END;
    ELSE IF H06010 IN (1) AND H06011 IN (.) THEN DO;
        H06011=.N;
        N2=4;
    END;
    ELSE IF H06010 IN (2) THEN DO;
        N2=5;
    END;
    ELSE IF H06010 IN (.) AND H06011 IN (.) THEN DO;
        N2=6;
    END;
END;
ELSE IF H06008 IN (2,.) THEN DO;
    IF H06009 NOT IN (.N, .) AND H06010 IN (1) AND H06011 IN (1,2,3)
    THEN DO;
        H06008=1;
        H06011=.C;
        N2=7;
    END;
    ELSE IF H06009 NOT IN (.N, .) AND H06010 IN (.) AND H06011 IN (1,2,3)
    THEN DO;
        H06008=1;
        N2=8;
    END;
    ELSE IF H06009 NOT IN (.N, .) AND H06010 IN (.) AND H06011 IN (.)
    THEN DO;
        H06008=1;
        N2=9;
    END;
    ELSE IF H06008=2 AND H06009 IN (.) AND H06010 IN (1) AND H06011 IN (1,2,3)
    THEN DO;
        H06009=.N;
        H06010=.C;
        N2=10;
    END;
    ELSE IF H06008 = 2 AND H06009 IN (.N)
    THEN DO;
        H06009=.C;
        IF H06010=. THEN H06010=.N;
        ELSE H06010=.C;
        N2=11;
    END;
    ELSE IF H06010 IN (1)
    THEN DO;
        H06008=1;
        IF H06011=. THEN H06011=.N;

```



```

        ELSE H06011=.C;
        N2=12;
    END;
    ELSE IF H06010 IN (2)
    THEN DO;
        H06008=1;
        N2=13;
    END;
    ELSE IF H06008=2 AND H06009 In (.) AND H06010= . THEN DO;
        H06009=.N;
        H06010=.N;
        N2=14;
    END;
    ELSE IF H06008=. AND H06009=. AND H06010=. THEN DO;
        N2=15;
    END;
END;

```

/** Note 3 -- H06012, H06013: needed to see a specialist in last 12 months **/

```

    IF H06012=1 AND H06013 IN (1,2,3,.) THEN N3=1;
    ELSE IF H06012 IN (1,.) AND H06013=.N THEN DO;
        H06012=2;
        H06013=.C;
        N3=2;
    END;
    ELSE IF H06012 IN (2,.) AND H06013 IN (1,2,3) THEN DO;
        H06012=1;
        N3=3;
    END;
    ELSE IF H06012=2 AND H06013 IN (.,.N) THEN DO;
        IF H06013=. THEN H06013=.N;
        ELSE H06013=.C;
        N3=4;
    END;
    ELSE IF H06012=. AND H06013=. THEN N3=5;

```

/** Note 4 -- H06014, H06015: saw a specialist in last 12 months **/

```

    IF H06014=1 AND H06015 IN (0,1,2,3,4,5,6,7,8,9,10,.) THEN N4=1;
    ELSE IF H06014 IN (1,.) AND H06015=.N THEN DO;
        H06014=2;
        H06015=.C;
        N4=2;
    END;
    ELSE IF H06014 IN (2,.) AND H06015 IN (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
        H06014=1;
        N4=3;
    END;
    ELSE IF H06014=2 AND H06015 IN (.,.N) THEN DO;
        IF H06015=. THEN H06015=.N;
        ELSE H06015=.C;
        N4=4;
    END;
    ELSE IF H06014=. AND H06015=. THEN N4=5;

```

/** Note 5 -- called a doctor's office: H06016, H06017 **/

```

    IF H06016=1 AND H06017 IN (1,2,3,4,.) THEN N5=1;
    ELSE IF H06016 IN (1,.) AND H06017=.N THEN DO;
        H06016=2;
        H06017=.C;
        N5=2;
    END;
    ELSE IF H06016 IN (2,.) AND H06017 IN (1,2,3,4) THEN DO;
        H06016=1;

```

```

      N5=3;
    END;
  ELSE IF H06016=2 AND H06017 IN (.,.N) THEN DO;
    IF H06017=. THEN H06017=.N;
    ELSE H06017=.C;
    N5=4;
  END;
  ELSE IF H06016=. AND H06017=. THEN N5=5;

/** Note 6 -- H06018,H06019,H06020: illness or injury **/

  ARRAY NOTE6 H06019 H06020;
  N6MARK=0;
  N6NMISS=0;
  N6NN=0;

  DO OVER NOTE6;
    IF NOTE6 NE . THEN N6NMISS+1;
    IF NOTE6 NOT IN (.N,.) THEN N6MARK+1;
    IF NOTE6 EQ .N THEN N6NN+1;
  END;

  IF H06018=1 AND N6NMISS=0 THEN DO;
    N6=1;
  END;
  ELSE IF H06018 IN (1,.) AND N6NMISS>0 AND N6MARK=0 THEN DO;
    H06018=2;
    N6=2;
    DO OVER NOTE6;
      IF NOTE6=. THEN NOTE6=.N;
      ELSE NOTE6=.C;
    END;
  END;
  ELSE IF H06018=1 AND N6MARK=1 AND N6NN=1 THEN DO;
    DO OVER NOTE6;
      IF NOTE6=.N THEN NOTE6=.;
    END;
    N6=3;
  END;
  ELSE IF H06018=1 AND N6MARK>0 THEN DO;
    N6=4;
  END;
  ELSE IF H06018=2 AND N6MARK=1 AND N6NN=1 THEN DO;
    H06019=.C;
    H06020=.C;
    N6=5;
  END;
  ELSE IF H06018 IN (2,.) AND N6MARK>0 THEN DO;
    H06018=1;
    N6=6;
    DO OVER NOTE6;
      IF NOTE6=.N THEN NOTE6=.;
    END;
  END;
  ELSE IF H06018=2 AND (N6NMISS=0 OR (N6NMISS>0 AND N6MARK=0)) THEN DO;
    N6=7;
    DO OVER NOTE6;
      IF NOTE6=. THEN NOTE6=.N;
      ELSE NOTE6=.C;
    END;
  END;
  ELSE IF H06018=. AND N6MARK=1 AND N6NN=1 THEN DO;
    H06018=2;
    H06019=.C;
    H06020=.C;
    N6=8;
  END;
  ELSE IF H06018=. AND N6NMISS=0 THEN N6=9;

  DROP N6NMISS N6MARK N6NN;

```

```
/** Note 7 -- H06021,H06022,H06023: regular or routine healthcare **/
```

```
ARRAY NOTE7 H06022 H06023;
N7MARK=0;
N7NMISS=0;
N7NN=0;

DO OVER NOTE7;
  IF NOTE7 NE . THEN N7NMISS+1;
  IF NOTE7 NOT IN (.N,.) THEN N7MARK+1;
  IF NOTE7 EQ .N THEN N7NN+1;
END;

IF H06021=1 AND N7NMISS=0 THEN DO;
  N7=1;
END;
ELSE IF H06021 IN (1,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
  H06021=2;
  N7=2;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
END;
ELSE IF H06021=1 AND N7MARK=1 AND N7NN=1 THEN DO;
  DO OVER NOTE7;
    IF NOTE7=.N THEN NOTE7=.;
  END;
  N7=3;
END;
ELSE IF H06021=1 AND N7MARK>0 THEN DO;
  N7=4;
END;
ELSE IF H06021=2 AND N7MARK=1 AND N7NN=1 THEN DO;
  H06022=.C;
  H06023=.C;
  N7=5;
END;
ELSE IF H06021 IN (2,.) AND N7MARK>0 THEN DO;
  H06021=1;
  N7=6;
  DO OVER NOTE7;
    IF NOTE7=.N THEN NOTE7=.;
  END;
END;
ELSE IF H06021=2 AND (N7NMISS=0 OR (N7NMISS>0 AND N7MARK=0)) THEN DO;
  N7=7;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
END;
ELSE IF H06021=. AND N7MARK=1 AND N7NN=1 THEN DO;
  H06021=2;
  H06022=.C;
  H06023=.C;
  N7=8;
END;
ELSE IF H06021=. AND N7NMISS=0 THEN N7=9;

DROP N7NMISS N7MARK N7NN;
```

```
/** Note 8 -- H06025, H06026-H06037: doctor's office or clinic **/
```

```
ARRAY NOTE8 H06026-H06037;

N8MARK=0;
N8NMISS=0;
```

```

DO OVER NOTE8;
  IF NOTE8 NE . THEN N8NMISS+1;
  IF NOTE8 NOT IN (., .N) THEN N8MARK+1;
END;

IF H06025=1 THEN DO;
  N8=1;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF H06025 IN (2,3,4,5,6,7,..) AND N8NMISS>0 AND N8MARK=0 THEN DO;
  H06025=1;
  N8=2;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF H06025 IN (2,3,4,5,6,7) AND (N8NMISS=0 OR N8MARK>0) THEN DO;
  DO OVER NOTE8;
    IF NOTE8=.N THEN NOTE8=.;
  END;
  N8=3;
END;
ELSE IF H06025=. AND N8NMISS=0 THEN N8=4;
ELSE IF H06025 IN (.) AND N8MARK>0 THEN DO;
  N8=5;
  DO OVER NOTE8;
    IF NOTE8=.N THEN NOTE8=.;
  END;
END;

DROP N8NMISS N8MARK;

```

```

/** Note 9 -- You or doctor believed you needed care, tests or treatment:
    H06026, H06027 **/

```

```

IF H06026 IN (.N, .C) THEN N9=1;
ELSE IF H06026=1 AND H06027 IN (1,2,3,..) THEN N9=2;
ELSE IF H06026 IN (1,..) AND H06027=.N THEN DO;
  H06026=2;
  H06027=.C;
  N9=3;
END;
ELSE IF H06026 IN (2,..) AND H06027 IN (1,2,3) THEN DO;
  H06026=1;
  N9=4;
END;
ELSE IF H06026=2 AND H06027 IN (.,.N) THEN DO;
  IF H06027=. THEN H06027=.N;
  ELSE H06027=.C;
  N9=5;
END;
ELSE IF H06026=. AND H06027=. THEN N9=6;

```

```

/** Note 10 -- Needed approval from healthplan for care, tests or treatment:
    H06028, H06029 **/

```

```

IF H06028 IN (.N, .C) THEN N10=1;
ELSE IF H06028=1 AND H06029 IN (1,2,3,..) THEN N10=2;
ELSE IF H06028 IN (1,..) AND H06029=.N THEN DO;
  H06028=2;
  H06029=.C;
  N10=3;

```

```

END;
ELSE IF H06028 IN (2,.) AND H06029 IN (1,2,3) THEN DO;
  H06028=1;
  N10=4;
END;
ELSE IF H06028=2 AND H06029 IN (.,.N) THEN DO;
  IF H06029=. THEN H06029=.N;
  ELSE H06029=.C;
  N10=5;
END;
ELSE IF H06028=. AND H06029=. THEN N10=6;

/** Note 10A -- S06V01, S06V02 S06V05-S06V18G: health care received from TRICARE civilian network
**/

ARRAY NOTE10AA S06V02 S06V05-S06V10 S06V13 S06V15-S06V17;
ARRAY NOTE10AB S06V11A--S06V12G S06V14A--S06V14H S06V18A--S06V18G;
N10AMARK=0;
N10ANMISS=0;

DO OVER NOTE10AA;
  IF NOTE10AA NE . THEN N10ANMISS+1;
  IF NOTE10AA NOT IN (.N,.) THEN N10AMARK+1;
END;

DO OVER NOTE10AB;
  IF NOTE10AB NOT IN (.,2) THEN N10ANMISS+1;
  IF NOTE10AB NOT IN (.N,.,2) THEN N10AMARK+1;
END;

IF S06V01 IN (1,2,3,4) AND (N10ANMISS=0 OR N10AMARK>0) THEN N10A=1;
ELSE IF S06V01 IN (1,2,3,.) AND N10ANMISS>0 AND N10AMARK=0 THEN DO;
  N10A=2;
  S06V01=.N;
  DO OVER NOTE10AA;
    IF NOTE10AA=. THEN NOTE10AA=.N;
    ELSE NOTE10AA=.C;
  END;
  DO OVER NOTE10AB;
    IF NOTE10AB IN (.,2) THEN NOTE10AB=.N;
    ELSE NOTE10AB=.C;
  END;
END;
ELSE IF S06V01=4 AND N10ANMISS>0 AND N10AMARK=0 THEN DO;
  N10A=3;
END;
ELSE IF S06V01=.N
THEN DO;
  N10A=4;
  DO OVER NOTE10AA;
    IF NOTE10AA=. THEN NOTE10AA=.N;
    ELSE NOTE10AA=.C;
  END;
  DO OVER NOTE10AB;
    IF NOTE10AB IN (.,2) THEN NOTE10AB=.N;
    ELSE NOTE10AB=.C;
  END;
END;
ELSE IF S06V01=. THEN N10A=5;

DROP N10ANMISS N10AMARK;

/** Note 10B -- S06V06, S06V11A-S06V11H: Problems finding a doctor
from civilian network **/

ARRAY NOTE10B S06V11A--S06V11H;
N10BNMISS=0;

DO OVER NOTE10B;
  IF NOTE10B NOT IN (.,2) THEN N10BNMISS+1;

```

```

END;

IF S06V06 IN (.N, .C) AND S06V11A IN (.N, .C) AND
S06V11B IN (.N, .C) AND S06V11C IN (.N, .C) AND
S06V11D IN (.N, .C) AND S06V11E IN (.N, .C) AND
S06V11F IN (.N, .C) AND S06V11G IN (.N, .C) AND
S06V11H IN (.N, .C)
THEN N10B=1;
ELSE IF S06V06 IN (3,.N) THEN DO;
  N10B=2;
  DO OVER NOTE10B;
    IF NOTE10B IN (.,2) THEN NOTE10B=.N;
    ELSE NOTE10B=.C;
  END;
END;
ELSE IF S06V06 IN (1,2) THEN DO;
  N10B=3;
END;
ELSE IF S06V06=. AND N10BNMISS > 0 THEN DO;
  N10B=4;
END;
ELSE IF S06V06=. THEN DO;
  N10B=5;
  DO OVER NOTE10B;
    IF NOTE10B NE . THEN NOTE10B=.;
  END;
END;

DROP N10BNMISS;

/** Note 10C -- S06V07, S06V12A-S06V12G: Problems finding a specialist
from civilian network **/

ARRAY NOTE10C S06V12A--S06V12G;

N10CNMISS=0;

DO OVER NOTE10C;
  IF NOTE10C NOT IN (.,2) THEN N10CNMISS+1;
END;

IF S06V07 IN (.N, .C) AND S06V12A IN (.N, .C) AND
S06V12B IN (.N, .C) AND S06V12C IN (.N, .C) AND
S06V12D IN (.N, .C) AND S06V12E IN (.N, .C) AND
S06V12F IN (.N, .C) AND S06V12G IN (.N, .C)
THEN N10C=1;
ELSE IF S06V07 IN (3,.N) THEN DO;
  N10C=2;
  DO OVER NOTE10C;
    IF NOTE10C IN (.,2) THEN NOTE10C=.N;
    ELSE NOTE10C=.C;
  END;
END;
ELSE IF S06V07 IN (1,2) THEN DO;
  N10C=3;
END;
ELSE IF S06V07=. AND N10CNMISS > 0 THEN DO;
  N10C=4;
END;
ELSE IF S06V07=. THEN DO;
  N10C=5;
  DO OVER NOTE10C;
    IF NOTE10C NE . THEN NOTE10C=.;
  END;
END;

DROP N10CNMISS;

```

```

/** Note 10D -- S06V08 S06V09-S06V10, S06V13-S06V18G
                : health care received from civilian providers
                that are not a part of TRICARE
                civilian network **/

ARRAY NOTE10DA S06V09 S06V10 S06V13 S06V15-S06V17 ;
ARRAY NOTE10DB S06V14A--S06V14H S06V18A--S06V18G ;

IF S06V08 IN (.C, .N) THEN N10D=1;
ELSE IF S06V08 IN (1,., .D) THEN N10D=2;
ELSE IF S06V08=2
THEN DO;
    N10D=3;
    DO OVER NOTE10DA;
        IF NOTE10DA=. THEN NOTE10DA=.N;
        ELSE NOTE10DA=.C;
    END;
    DO OVER NOTE10DB;
        IF NOTE10DB IN (.,2) THEN NOTE10DB=.N;
        ELSE NOTE10DB=.C;
    END;
END;

/** Note 10E -- S06V13, S06V14A-S06V14H: Problems finding a personal Dr
                who accepts TRICARE **/

ARRAY NOTE10E S06V14A--S06V14H;

N10ENMISS=0;

DO OVER NOTE10E;
    IF NOTE10E NOT IN (.,2) THEN N10ENMISS+1;
END;

IF S06V13 IN (.N, .C) AND S06V14A IN (.N, .C) AND
S06V14B IN (.N, .C) AND S06V14C IN (.N, .C) AND
S06V14D IN (.N, .C) AND S06V14E IN (.N, .C) AND
S06V14F IN (.N, .C) AND S06V14G IN (.N, .C) AND
S06V14H IN (.N, .C)
THEN N10E=1;
ELSE IF S06V13 IN (3, .N) THEN DO;
    N10E=2;
    DO OVER NOTE10E;
        IF NOTE10E IN (.,2) THEN NOTE10E=.N;
        ELSE NOTE10E=.C;
    END;
END;
ELSE IF S06V13 IN (1,2) THEN DO;
    N10E=3;
END;
ELSE IF S06V13=. AND N10ENMISS > 0 THEN DO;
    N10E=4;
END;
ELSE IF S06V13=. THEN DO;
    N10E=5;
    DO OVER NOTE10E;
        IF NOTE10E NE . THEN NOTE10E=.;
    END;
END;

DROP N10ENMISS;

/** Note 10F -- S06V15, S06V16, S06V17, S06V18A-S06V18G
                : Problems making an appointment
                with a civilian specialist
                who is not part of TRICARE's network **/

ARRAY NOTE10FA S06V16 S06V17;
ARRAY NOTE10FB S06V18A--S06V18G;

```

```

N10FNMISS=0;

DO OVER NOTE10FA;
  IF NOTE10FA NOT IN (.) THEN N10FNMISS+1;
END;

DO OVER NOTE10FB;
  IF NOTE10FB NOT IN (.,2) THEN N10FNMISS+1;
END;

IF S06V15 IN (.N, .C)
THEN N10F=1;
ELSE IF S06V15 IN (1) THEN DO;
  N10F=3;
END;
ELSE IF S06V15 IN (2, .D) THEN DO;
  N10F=2;
  DO OVER NOTE10FA;
    IF NOTE10FA IN (.) THEN NOTE10FA=.N;
    ELSE NOTE10FA=.C;
  END;
  DO OVER NOTE10FB;
    IF NOTE10FB IN (.,2) THEN NOTE10FB=.N;
    ELSE NOTE10FB=.C;
  END;
END;
ELSE IF S06V15=. AND N10FNMISS > 0 THEN DO;
  N10F=4;
  S06V15=1;
END;
ELSE IF S06V15=. THEN DO;
  N10F=5;
  DO OVER NOTE10FA;
    IF NOTE10FA NE . THEN NOTE10FA=.;
  END;
  DO OVER NOTE10FB;
    IF NOTE10FB NE . THEN NOTE10FB=.;
  END;
END;

DROP N10FNMISS;

```

/** Note 10G -- S06V17, S06V18A-S06V18G: Non-network civilian specialist **/

```

ARRAY NOTE10G S06V18A--S06V18G;

N10GNMISS=0;

DO OVER NOTE10G;
  IF NOTE10G NOT IN (.,2) THEN N10GNMISS+1;
END;

IF S06V17 IN (.N, .C) AND S06V18A IN (.N, .C) AND
S06V18B IN (.N, .C) AND S06V18C IN (.N, .C) AND
S06V18D IN (.N, .C) AND S06V18E IN (.N, .C) AND
S06V18F IN (.N, .C) AND S06V18G IN (.N, .C)
THEN N10G=1;
ELSE IF S06V17 IN (3) THEN DO;
  N10G=2;
  DO OVER NOTE10G;
    IF NOTE10G IN (.,2) THEN NOTE10G=.N;
    ELSE NOTE10G=.C;
  END;
END;
ELSE IF S06V17 IN (1,2) THEN DO;
  N10G=3;
END;
ELSE IF S06V17=. AND N10GNMISS > 0 THEN DO;
  N10G=4;

```



```

END;
ELSE IF S06V17=. THEN DO;
  N10G=5;
  DO OVER NOTE10G;
    IF NOTE10G NE . THEN NOTE10G=.;
  END;
END;

DROP N10GNMISS;

/** Note 13 -- H06039, H06040-H06041: claims to health plan **/

  ARRAY NOTE13 H06040-H06041;
N13MARK=0;
N13NMISS=0;
N13NDK=0;

DO OVER NOTE13;
  IF NOTE13 NE . THEN N13NMISS+1;
  IF NOTE13 NOT IN (.N,.) THEN N13MARK+1;
  IF NOTE13 NOT IN (.,.D) THEN N13NDK+1;
END;

IF H06039=1 AND
  (N13NMISS=0 OR (N13MARK>0 and N13NDK>0) or (N13NMISS>0 AND N13NDK=0))
THEN DO;
  N13=1;
  DO OVER NOTE13;
    IF NOTE13=.N THEN NOTE13=.;
  END;
END;
ELSE IF H06039 IN (1,.,.D) AND N13NMISS>0 AND N13MARK=0 THEN DO;
  N13=2;
  H06039=2;
  DO OVER NOTE13;
    IF NOTE13=. THEN NOTE13=.N;
    ELSE NOTE13=.C;
  END;
END;
ELSE IF H06039 IN (2,.,.D) AND
  ((N13MARK>0 AND N13NDK>0) OR (N13NMISS>0 AND N13NDK=0))
  THEN DO;
  H06039=1;
  N13=3;
  DO OVER NOTE13;
    IF NOTE13=.N THEN NOTE13=.;
  END;
END;
ELSE IF H06039 IN (2) AND (N13NMISS=0 OR (N13NMISS>0 AND N13MARK=0)) THEN DO;
  N13=4;
  DO OVER NOTE13;
    IF NOTE13=. THEN NOTE13=.N;
    ELSE NOTE13=.C;
  END;
END;
ELSE IF H06039 IN (.D) AND N13NMISS=0 THEN DO;
  N13=5;
  DO OVER NOTE13;
    NOTE13=.N;
  END;
END;
ELSE IF H06039 IN (.) AND N13NMISS=0 THEN N13=6;

DROP N13NMISS N13MARK N13NDK;

/** NOTE14 -- H06042, H06043: **/

IF H06042=1 AND H06043 IN (1,2,3,.) THEN N14=1;
ELSE IF H06042 IN (1,.) AND H06043=.N THEN DO;

```

```

        H06042=2;
        H06043=.C;
        N14=2;
    END;
    ELSE IF H06042 IN (2,.) AND H06043 IN (1,2,3) THEN DO;    /* JMA per Daisy's suggestion 3/20/03
*/
        H06042=1;
        N14=3;
    END;
    ELSE IF H06042=2 AND H06043 IN (.N,.) THEN DO;
        IF H06043=. THEN H06043=.N;
        ELSE H06043=.C;
        N14=4;
    END;
    ELSE IF H06042=. AND H06043=. THEN N14=5;

/** NOTE15 -- H06044, H06045: health plan's customer service **/

    IF H06044=1 AND H06045 IN (1,2,3,.) THEN N15=1;
    ELSE IF H06044 IN (1,.) AND H06045=.N THEN DO;
        H06044=2;
        H06045=.C;
        N15=2;
    END;
    ELSE IF H06044 IN (2,.) AND H06045 IN (1,2,3) THEN DO;
        H06044=1;
        N15=3;
    END;
    ELSE IF H06044=2 AND H06045 IN (.N,.) THEN DO;
        IF H06045=. THEN H06045=.N;
        ELSE H06045=.C;
        N15=4;
    END;
    ELSE IF H06044=. AND H06045=. THEN N15=5;

/** NOTE16 -- H06046, H06047: paperwork **/

    IF H06046=1 AND H06047 IN (1,2,3,.) THEN N16=1;
    ELSE IF H06046 IN (1,.) AND H06047=.N THEN DO;
        H06046=2;
        H06047=.C;
        N16=2;
    END;
    ELSE IF H06046 IN (2,.) AND H06047 IN (1,2,3) THEN DO;
        H06046=1;
        N16=3;
    END;
    ELSE IF H06046=2 AND H06047 IN (.N,.) THEN DO;
        IF H06047=. THEN H06047=.N;
        ELSE H06047=.C;
        N16=4;
    END;
    ELSE IF H06046=. AND H06047=. THEN N16=5;

/** NOTE16G -- S06Q01, S06Q02: Blood stool test **/

    IF S06Q01=1 AND S06Q02 IN (1,2,3,4,..D) THEN N16G=1;
    ELSE IF S06Q01 IN (1,.) AND S06Q02=.N THEN DO;
        S06Q01=2;
        S06Q02=.C;
        N16G=2;
    END;
    ELSE IF S06Q01 IN (2,.D, .) AND S06Q02 IN (1,2,3,4) THEN DO;
        S06Q01=1;
        N16G=3;
    END;
    ELSE IF S06Q01 IN (2, .D) AND S06Q02 IN (.N,..D) THEN DO;
        IF S06Q02=. THEN S06Q02=.N;
        ELSE S06Q02=.C;
        N16G=4;

```

```

END;
ELSE IF S06Q01=. AND S06Q02 IN (., .D) THEN N16G=5;

/** Note 16H -- S06Q03, S06Q04-S06Q05: Sigmoidoscopy and colonoscopy **/

ARRAY NOTE16H S06Q04-S06Q05;
N16HMARK=0;
N16HNMIS=0;
N16HNDK=0;

DO OVER NOTE16H;
  IF NOTE16H NE . THEN N16HNMIS+1;
  IF NOTE16H NOT IN (.N,.) THEN N16HMARK+1;
  IF NOTE16H NOT IN (.,.D) THEN N16HNDK+1;
END;

IF S06Q03=1 AND
(N16HNMIS=0 OR (N16HMARK>0 and N16HNDK>0) or (N16HNMIS>0 AND N16HNDK=0))
THEN DO;
  N16H=1;
  DO OVER NOTE16H;
    IF NOTE16H=.N THEN NOTE16H=.;
  END;
END;
ELSE IF S06Q03 IN (1,..D) AND N16HNMIS>0 AND N16HMARK=0 THEN DO;
  N16H=2;
  S06Q03=2;
  DO OVER NOTE16H;
    IF NOTE16H=. THEN NOTE16H=.N;
    ELSE NOTE16H=.C;
  END;
END;
ELSE IF S06Q03 IN (2,..D) AND
((N16HMARK>0 AND N16HNDK>0) OR (N16HNMIS>0 AND N16HNDK=0))
THEN DO;
  S06Q03=1;
  N16H=3;
  DO OVER NOTE16H;
    IF NOTE16H=.N THEN NOTE16H=.;
  END;
END;
ELSE IF S06Q03 IN (2) AND (N16HNMIS=0 OR (N16HNMIS>0 AND N16HMARK=0)) THEN DO;
  N16H=4;
  DO OVER NOTE16H;
    IF NOTE16H=. THEN NOTE16H=.N;
    ELSE NOTE16H=.C;
  END;
END;
ELSE IF S06Q03 IN (.D) AND N16HNMIS=0 THEN DO;
  N16H=5;
  DO OVER NOTE16H;
    NOTE16H=.N;
  END;
END;
ELSE IF S06Q03 IN (.) AND N16HNMIS=0 THEN N16H=6;

DROP N16HNMIS N16HMARK N16HNDK;

/** Note 17 -- smoking: H06052, H06053-H06057 **/

ARRAY NOTE17 H06055 H06056 H06057;

IF H06052=1 and H06053 IN (3,4) THEN DO; /* still smoke */
  IF H06054 NE . THEN H06054=.C;
  ELSE H06054=.N;
  N17=1;
END;
ELSE IF H06052=1 AND H06053=2 THEN DO; /* quit */
  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

```

```

IF H06054 IN (2,.D) THEN DO;                /* > 1 year ago */
DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
END;
N17=2;
END;
ELSE IF H06054 IN (3,.) THEN N17=3;        /* < 1 year ago */
END;
ELSE IF H06052=1 AND H06053 IN (.D,.) THEN DO; /* don't know */
  IF H06054=2 THEN DO;                    /* > 1 year ago */

  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

  DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
END;
H06053=2;
N17=4;
END;
ELSE IF H06054=3 THEN DO;                  /* < 1 year ago */
  H06053=2;
  N17=5;
END;
ELSE IF H06053 IN (.D) AND H06054 IN (.D,.) THEN DO;
  N17=6;
  IF H06054=. THEN H06054=.N;
  ELSE H06054=.C;
  DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
END;
END;
ELSE IF H06053 IN (.) AND H06054 IN (.D) THEN DO;
  N17=7;
  DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
END;
END;
ELSE IF H06053 IN (.) AND H06054 IN (.) THEN DO;
  N17=8;
END;
END;
ELSE IF H06052 IN (2,.D,.) AND H06053 IN (3,4) THEN DO;
  H06052=1;

  IF H06054 NE . THEN H06054=.C;
  ELSE H06054=.N;

  N17=9;
END;
ELSE IF H06052 IN (2,.D) AND H06053 IN (2,.D, .) THEN DO; /*never smoke*/
  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

  IF H06053 NE . THEN H06053 =.C;
  ELSE H06053=.N;

  IF H06054 NE . THEN H06054 =.C;
  ELSE H06054=.N;

  DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
END;

  N17=10;
END;

```

```

ELSE IF H06052 IN ( .) THEN DO;
  IF (H06053 IN (2) AND
      H06054 IN (.) AND
      (H06055 IN (2,3,4,5) OR H06056 IN (2,3,4,5) OR H06057 IN (2,3,4,5)))
  THEN DO;
    /* JMA March 25 2004,
       Updated because H06056 and H06057 have been added to the
       skip pattern */

    H06052=1;
    H06054=3;
    N17=11;
  END;
ELSE IF H06053 IN (2,.) THEN DO; /*MRE/blank*/
  IF H06054 IN (2, .D) THEN DO;
    /* JMA March 25 2004,
       Updated because H06056 and H06057 have been added to the
       skip pattern */

    DO OVER NOTE17;
      IF NOTE17=. THEN NOTE17=.N;
      ELSE NOTE17=.C;
    END;
    N17=12;
  END;
ELSE IF H06054 IN (3,.) THEN DO;
  IF (H06055 IN (2,3,4,5) OR H06056 IN (2,3,4,5) OR H06057 IN (2,3,4,5))
  THEN DO;
    H06052=1;
    N17=13;
  END;
  ELSE N17=14;
END;
END;
ELSE IF H06053=.D THEN DO; /*MRE/blank*/
  /* JMA March 25 2004,
     Updated because H06056 and H06057 have been added to the
     skip pattern */

  IF H06054 NE . THEN H06054 =.C;
  ELSE H06054=.N;

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;

  N17=15;
END;
END;

/** Note 18 - gender H06058, SEX, H06059--H06065,
    XSEX */

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

ARRAY fmaleval H06059 H06060 H06061 H06063 H06064 H06065
      ;

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

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

IF H06058=. THEN DO;

```

```

IF (SEX='F' AND FMALE) THEN DO;
  N18a=1;
  XSEXA=2;
END;
ELSE IF (SEX='F' AND FMALE=0) THEN DO;
  N18a=2;
  XSEXA=2;
END;
ELSE IF (SEX='M' AND FMALE) THEN DO;
  N18a=3;
  XSEXA=1;
END;
ELSE IF (SEX='M' AND FMALE=0) THEN DO;
  N18a=4;
  XSEXA=1;
END;
ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
  N18a=5;
  XSEXA=2;
END;
ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
  N18a=6;
  XSEXA=.;
END;
ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
  N18a=7;
  XSEXA=.;
END;
END;
ELSE IF (H06058=1) THEN DO;
  IF FMALE=0 THEN DO;
    N18a=8;
    XSEXA=1;
  END;
  ELSE IF FMALE THEN DO;
    IF SEX='F' THEN DO;
      N18a=9;
      XSEXA=2;
    END;
    ELSE DO;
      N18a=10;
      XSEXA=1;
    END;
  END;
END;
END;
ELSE IF (H06058=2) THEN DO;
  IF FMALE THEN DO;
    N18a=11;
    XSEXA=2;
  END;
  ELSE IF FMALE=0 THEN DO;
    IF SEX='M' THEN DO;
      N18a=12;
      XSEXA=1;
    END;
    ELSE DO;
      N18a=13;
      XSEXA=2;
    END;
  END;
END;
END;

/* Note 18b - gender vs mammogram/paps/pregnancy */
/* REDEFINE FMALE TO LOOK ONLY AT MAMMOGRAM, PAP SMEAR ENTRIES and PREGNANCY */

ARRAY NOTE18b H06059 H06060 H06061 H06063 H06064 H06065
;

cntfemale=0;
DO OVER NOTE18b; /* mammogram/pap smear/PREGNANT*/
  IF NOTE18b NE . THEN cntfemale=cntfemale+1;
END;

```

```

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

IF XSEXA=1 THEN DO; /* male */
  IF FMALE=0 THEN DO;
    N18b=1;
    DO OVER NOTE18b;
      NOTE18b=.N;
    END;
  END; /* valid skip */
ELSE IF FMALE=1 THEN DO;
  N18b=2;
  DO OVER NOTE18b;
    IF NOTE18b=. THEN NOTE18b = .N;
    ELSE NOTE18b=.C;
  END;
END; /* inconsistent response */
END;
ELSE IF XSEXA=2 THEN N18b=3; /* female */
ELSE IF XSEXA=. THEN DO; /* missing sex */
  N18b=4;
  DO OVER NOTE18b;
    NOTE18b=.;
  END;
END;
END;

```

```

DROP FMALE CNTFMALE;

```

```

/* Note 19 - breast exam for female 40 or over */

```

```

IF XSEXA=1 THEN DO; /* male */
  IF (H06060=.C OR H06060=.N) AND (H06061=.C OR H06061=.N)
  THEN N19 = 1;
END;
ELSE IF XSEXA=2 THEN DO;
  IF H06060=2 THEN N19=2; /* female 40 or over */
  ELSE IF H06060=1 THEN DO; /* female < 40 */
    IF H06061 NE . THEN H06061=.C;
    ELSE H06061=.N;
    N19=3;
  END;
  ELSE IF H06060=. THEN DO;
    IF H06061 NE . THEN DO;
      H06060=2;
      N19=4;
    END;
    ELSE IF H06061=. THEN DO;
      IF AGE<40 THEN DO;
        H06060 = 1;
        H06061=.N;
        N19=5;
      END;
      ELSE IF AGE >= 40 THEN DO;
        H06060=1;
        H06061=.N;
        N19=6;
      END;
      ELSE IF AGE=. THEN N19=7;
    END;
  END;
END;
ELSE IF XSEXA=. THEN N19=8;

```

```

/* Note 20 - gender vs Pregnancy */

```

```

IF XSEXA=1 THEN N20=1; /* male */

```

```

ELSE IF XSEXA=2 THEN DO;          /* female */
  IF H06063=1 THEN DO;          /* pregnant */
    IF H06064=1 THEN DO;
      N20=2;
      IF H06065=. THEN H06065 = .N;
      ELSE H06065=.C;
    END;
    ELSE IF H06064=2 AND H06065 IN (2) THEN DO;
      N20=3;
      H06065=. ;
    END;
    ELSE IF H06064=2 AND H06065 IN (4,3,1,.) THEN DO;
      N20=4;
    END;
    ELSE IF H06064 IN (3,.) THEN N20=5;
  END;
ELSE IF H06063=2 THEN DO;
  IF H06064=. THEN H06064 = .N;
  ELSE H06064=.C;
  N20=6;
END;
ELSE IF H06063=3 THEN DO;
  N20=7;
  IF H06064=. THEN H06064 = .N;
  ELSE H06064=.C;
  IF H06065=. THEN H06065=.N;
  ELSE H06065=.C;
END;
ELSE IF H06063 IN (.) THEN DO;
  IF H06064=1 THEN DO;
    N20=8;
    H06063=1;
    IF H06065=. THEN H06065 = .N;
    ELSE H06065=.C;
  END;
  ELSE IF H06064=2 AND H06065 IN (2) THEN DO;
    N20=9;
    H06063=1;
    H06065=. ;
  END;
  ELSE IF H06064=2 AND H06065 IN (4,3,1) THEN DO;
    H06063=1;
    N20=10;
  END;
  ELSE IF H06064=3 THEN DO;
    H06063=1;
    N20=11;
  END;
  ELSE IF H06064=. THEN DO;
    N20=12;
  END;
END;
END;
ELSE IF XSEXA=. AND H06063 IN (.) THEN N20=13;

```

```
DROP AGE SEX;
```

```
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 (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 FORMAT;
    VALUE GRID
        0='0'
        1-9999='>=1' ;
    VALUE $GRIDB
        1-5 = '1-5' ;
    VALUE $AGE
        018-039='<40'
        040-120='>=40';
    VALUE SCALE
        0-10='0-10';
    VALUE MARK
        1-6='Marked' ;
    VALUE MARKB
        2-7='Marked' ;

    VALUE MARKC
        1='1'
        2-HIGH='>1' ;

RUN;

proc contents data=out.cschm06q;
run;

```

**F.2.D Q2FY2006\PROGRAMS\CODINGScheme\CSCHM06Q.FMT - INCLUDE FILE FOR CODING SCHEME FOR QUARTER 2
FY2006.**

/* Formats for original answers to survey questions,
after variables have been recoded */

```

FORMAT H06001    H06001_O YN.
        H06003    H06003_O MEDA.
        H06004    H06004_O MEDB.
        H06005    H06005_O MEDSUPP.
        H06006    H06006_O HPLAN1_.
        H06007    H06007_O HPTIME.

H06008 H06008_O  H06010 H06010_O  H06012 H06012_O
H06014 H06014_O  H06016 H06016_O  H06018 H06018_O
H06021 H06021_O  H06026 H06026_O  H06028 H06028_O
        YN.

H06009    H06009_O RATE1_.
H06011    H06011_O PROB1_.
H06013    H06013_O PROB2_.
H06015    H06015_O RATE2_.
H06017    H06017_O OFTEN1_.
H06019    H06019_O OFTEN2_.
H06020    H06020_O TIME1_.
H06022    H06022_O OFTEN3_.
H06023    H06023_O TIME2_.
H06024    H06024_O OFTEN4_.
H06025    H06025_O OFTEN4_.

H06027    H06027_O PROB3_.
H06029    H06029_O PROB3a.

H06030-H06036    H06030_O--H06036_O OFTEN5_.

H06037    H06037_O RATE3_.

H06038    H06038_O PLACE.

H06039    H06039_O YNDNK.

H06040--H06041    H06040_O--H06041_O OFTEN6_.

H06042 H06042_O  H06044 H06044_O
H06046 H06046_O  H06060 H06060_O
H06067 H06067_O
        YN.

H06043    H06043_O PROB8_.
H06045    H06045_O PROB9_.
H06047    H06047_O PROB10_.
H06048    H06048_O RATE4_.

H06049    H06049_O TIME5_.
H06050    H06050_O YNBP_.
H06051    H06051_O TIME7_.
H06052    H06052_O YNDNK.
H06053    H06053_O TIME8_.
H06054    H06054_O TIME9_.
H06055    H06055_O OFTEN7_.
H06056    H06056_O OFTEN7_.
H06057    H06057_O OFTEN7_.
H06058    H06058_O SEX.
H06059    H06059_O TIME11_.
H06061    H06061_O TIME12_.
H06063    H06063_O YNPREG.
H06064    H06064_O PREG1_.
H06065    H06065_O PREG2_.
H06066    H06066_O HEALTH.

H06068F H06068FO
H06068I H06068IO

```

H06069 H06069_O
 TIME14_.

 SREDA SREDA_O EDUC.
 H06070 H06070_O HISP.
 SRAGE SRAGE_O AGEGRP.

 S06V01 S06V01_O HLTHCARE.
 S06V02 S06V02_O PROB4_.
 S06V05 S06V05_O YNnet.
 S06V06 S06V06_O PROB6_.
 S06V07 S06V07_O PROB7_.
 S06V08 S06V08_O YNdnk.
 S06V09 S06V09_O YNtri.
 S06V10 S06V10_O PROB1_.
 S06V13 S06V13_O PROB16_.
 S06V15 S06V15_O YNdnk.
 S06V16 S06V16_O nncspl.
 S06V17 S06V17_O PROB1_.

 S06Q01 S06Q01_O YNdnk.
 S06Q02 S06Q02_O colon1_.
 S06Q03 S06Q03_O YNdnk.
 S06Q04 S06Q04_O colon2_.
 S06Q05 S06Q05_O colon3_.
 S06Q06 S06Q06_O YnDr.

 MISS_1 MISS_4-MISS_9 MISS_TOT 4.
 e1 e2 e3 e4 e5 e6 e7 e8 e9 e10 e11 e12 e13 e14 e15 e16 e17
 e18 e19
 \$e_.;

LABEL H06001_O='Are you the person listed on envelope'
 H06001 ='Are you the person listed on envelope'
 H06002AO='Health plan(s) covered: TRICARE Prime'
 H06002A ='Health plan(s) covered: TRICARE Prime'
 H06002CO='Health plan(s) covered: TRICARE Ext/Stdnd'
 H06002C ='Health plan(s) covered: TRICARE Ext/Stdnd'
 H06002NO='Health plan(s) covered: TRICARE Plus'
 H06002N ='Health plan(s) covered: TRICARE Plus'
 H06002OO='Health plan(s) covered: TRICARE For Life'
 H06002O ='Health plan(s) covered: TRICARE For Life'
 H06002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
 H06002P ='Health plan(s) covered: TRICARE Supplmntl Ins'
 H06002FO='Health plan(s) covered: MEDICARE'
 H06002F ='Health plan(s) covered: MEDICARE'
 H06002GO='Health plan(s) covered: FEHBP'
 H06002G ='Health plan(s) covered: FEHBP'
 H06002HO='Health plan(s) covered: Medicaid'
 H06002H ='Health plan(s) covered: Medicaid'
 H06002IO='Health plan(s) covered: Civilian HMO'
 H06002I ='Health plan(s) covered: Civilian HMO'
 H06002JO='Health plan(s) covered: Other civilian'
 H06002J ='Health plan(s) covered: Other civilian'
 H06002KO='Health plan(s) covered: USFHP'
 H06002K ='Health plan(s) covered: USFHP'
 H06002MO='Health plan(s) covered: Veterans'
 H06002M ='Health plan(s) covered: Veterans'
 H06002LO='Health plan(s) covered: Not sure'
 H06002L ='Health plan(s) covered: Not sure'
 H06003 ='Currently Covered Medicare Part A'
 H06003_O='Currently Covered Medicare Part A'
 H06004 ='Currently Covered Medicare Part B'
 H06004_O='Currently Covered Medicare Part B'
 H06005 ='Currently Covered Medicare Supplemental'
 H06005_O='Currently Covered Medicare Supplemental'
 H06006_O='Which health plan did you use most'
 H06006 ='Which health plan did you use most'
 H06007_O='Yrs in a row with health plan'
 H06007 ='Yrs in a row with health plan'
 H06008_O='Have one person think of as personal Dr'

H06008 = 'Have one person think of as personal Dr'
H06009_O= 'Rating of your personal Dr or nurs'
H06009 = 'Rating of your personal Dr or nurs'
H06010_O= 'Same prs Dr/nurs before joined hlth pln'
H06010 = 'Same prs Dr/nurs before joined hlth pln'
H06011_O= 'Health plan: prblm to get Dr happy with'
H06011 = 'Health plan: prblm to get Dr happy with'
H06012_O= 'In lst yr:you/Dr think you need spclst'
H06012 = 'In lst yr:you/Dr think you need spclst'
H06013_O= 'In lst yr:how much prblm see spclst'
H06013 = 'In lst yr:how much prblm see spclst'
H06014_O= 'In lst yr:did you see a specialist'
H06014 = 'In lst yr:did you see a specialist'
H06015_O= 'Rating of specialist seen in lst yr'
H06015 = 'Rating of specialist seen in lst yr'
H06016_O= 'In lst yr:call Dr for help/advice'
H06016 = 'In lst yr:call Dr for help/advice'
H06017_O= 'In lst yr:when call how often get hlp nd'
H06017 = 'In lst yr:when call how often get hlp nd'
H06018_O= 'In lst yr:ill/injry/cond care right away'
H06018 = 'In lst yr:ill/injry/cond care right away'
H06019_O= 'In lst yr:get urgnt care as soon as wntd'
H06019 = 'In lst yr:get urgnt care as soon as wntd'
H06020_O= 'In lst yr:wait btwn try get care,see prv'
H06020 = 'In lst yr:wait btwn try get care,see prv'
H06021_O= 'In lst yr:make appts non-urgnt hlth care'
H06021 = 'In lst yr:make appts non-urgnt hlth care'
H06022_O= 'In lst yr:non-urg hlth cre appt whn wntd'
H06022 = 'In lst yr:non-urg hlth cre appt whn wntd'
H06023_O= 'In lst yr:days btwn appt & see prvder'
H06023 = 'In lst yr:days btwn appt & see prvder'
H06024_O= 'In lst yr:goto emrgncy rm for own care'
H06024 = 'In lst yr:goto emrgncy rm for own care'
H06025_O= 'In lst yr:goto Dr office/clinic for care'
H06025 = 'In lst yr:goto Dr office/clinic for care'
H06026_O= 'In lst yr:think need care/tests/trtmnt'
H06026 = 'In lst yr:think need care/tests/trtmnt'
H06027_O= 'In lst yr:prblm to get care thght ncssry'
H06027 = 'In lst yr:prblm to get care thght ncssry'
H06028_O= 'In lst yr:need apprvl care/tests/trtmnt'
H06028 = 'In lst yr:need apprvl care/tests/trtmnt'
H06029_O= 'In lst yr:prblm w/delays wait for apprv'
H06029 = 'In lst yr:prblm w/delays wait for apprv'
H06030_O= 'In lst yr:wait within 15 min appt see Dr'
H06030 = 'In lst yr:wait within 15 min appt see Dr'
H06031_O= 'In lst yr:how oftn treat w/crtsy/respct'
H06031 = 'In lst yr:how oftn treat w/crtsy/respct'
H06032_O= 'In lst yr:how oftn staff helpful'
H06032 = 'In lst yr:how oftn staff helpful'
H06033_O= 'In lst yr:how oftn Drs listen to you'
H06033 = 'In lst yr:how oftn Drs listen to you'
H06034_O= 'In lst yr:how oftn Drs explain things'
H06034 = 'In lst yr:how oftn Drs explain things'
H06035_O= 'In lst yr:how oftn Drs show respect'
H06035 = 'In lst yr:how oftn Drs show respect'
H06036_O= 'In lst yr:how oftn Drs spend enough time'
H06036 = 'In lst yr:how oftn Drs spend enough time'
H06037_O= 'Rating of all health care in lst yr'
H06037 = 'Rating of all health care in lst yr'
H06038_O= 'In lst yr:fcilty use most for Health care'
H06038 = 'In lst yr:fcilty use most for Health care'
H06039_O= 'In lst yr:send in any claims'
H06039 = 'In lst yr:send in any claims'
H06040_O= 'In lst yr:hlth pln handle in rsnble time'
H06040 = 'In lst yr:hlth pln handle in rsnble time'
H06041_O= 'In lst yr:how oftn handle correctly'
H06041 = 'In lst yr:how oftn handle correctly'
H06042_O= 'In lst yr:info in written materials'
H06042 = 'In lst yr:info in written materials'
H06043_O= 'In lst yr:prblm to find/undrstnd mtrls'
H06043 = 'In lst yr:prblm to find/undrstnd mtrls'
H06044_O= 'In lst yr:hlth plan customer srvc help'
H06044 = 'In lst yr:hlth plan customer srvc help'

H06045_O='In lst yr:prblm get help from cstmr srvc'
 H06045 = 'In lst yr:prblm get help from cstmr srvc'
 H06046_O='In lst yr:fill out paperwork'
 H06046 = 'In lst yr:fill out paperwork'
 H06047_O='In lst yr:prblms with paperwork'
 H06047 = 'In lst yr:prblms with paperwork'
 H06048 = 'Rating of all experience with hlth plan'
 H06048_O='Rating of all experience with hlth plan'
 H06049_O='Blood pressure: when lst reading'
 H06049 = 'Blood pressure: when lst reading'
 H06050_O='Blood pressure: know if too high or not'
 H06050 = 'Blood pressure: know if too high or not'
 H06051_O='When did you lst have a flu shot'
 H06051 = 'When did you lst have a flu shot'
 H06052 = 'Smoked at least 100 cigarettes in life'
 H06052_O='Smoked at least 100 cigarettes in life'
 H06053 = 'Smoke everyday, some days or not at all'
 H06053_O='Smoke everyday, some days or not at all'
 H06054_O='How long since you quit smoking'
 H06054 = 'How long since you quit smoking'
 H06055_O='Lst yr: # visits advised to quit smoking'
 H06055 = 'Lst yr: # visits advised to quit smoking'
 H06056 = '# visits recom medic assist quit smoking'
 H06056_O='# visits recom medic assist quit smoking'
 H06057 = '# vist discu meth/strag asst quit smokng'
 H06057_O='# vist discu meth/strag asst quit smokng'
 H06058_O='Are you male or female'
 H06058 = 'Are you male or female'
 H06059_O='Lst have a Pap smear test'
 H06059 = 'Lst have a Pap smear test'
 H06060_O='Are you under age 40'
 H06060 = 'Are you under age 40'
 H06061_O='Lst time: breasts checked mammography'
 H06061 = 'Lst time: breasts checked mammography'
 H06063_O='Been pregnant in lst yr or pregnant now'
 H06063 = 'Been pregnant in lst yr or pregnant now'
 H06064_O='In what trimester is your pregnancy'
 H06064 = 'In what trimester is your pregnancy'
 H06065_O='Trimester first received prenatal care'
 H06065 = 'Trimester first received prenatal care'
 H06066_O='In gnrl, how would you rate ovrall hlth'
 H06066 = 'In gnrl, how would you rate ovrall hlth'
 H06067_O='Impairment/Hlth prblm limit activities'
 H06067 = 'Impairment/Hlth prblm limit activities'

 H06068FO='Height without shoes (feet)'
 H06068F = 'Height without shoes (feet)'
 H06068IO='Height without shoes (inches)'
 H06068I = 'Height without shoes (inches)'
 H06069_O='Weight without shoes'
 H06069 = 'Weight without shoes'

 SREDA_O = 'Highest grade completed'
 SREDA = 'Highest grade completed'
 H06070_O='Are you Spanish/Hispanic/Latino'
 H06070 = 'Are you Spanish/Hispanic/Latino'
 H06070AO='Not Spanish/Hispanic/Latino'
 H06070A = 'Not Spanish/Hispanic/Latino'
 H06070BO='Mexican, Mexican American, Chicano'
 H06070B = 'Mexican, Mexican American, Chicano'
 H06070CO='Puerto Rican'
 H06070C = 'Puerto Rican'
 H06070DO='Cuban'
 H06070D = 'Cuban'
 H06070EO='Other Spanish, Hispanic, or Latino'
 H06070E = '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'

S06V01 = 'In lst yr:hlthcr frm TRICARE cvln ntwrk'
S06V01_O= 'In lst yr:hlthcr frm TRICARE cvln ntwrk'
S06V02 = 'In lst yr:prblm get wanted care frm TCN'
S06V02_O= 'In lst yr:prblm get wanted care frm TCN'
S06V05 = 'In lst yr:Learn wntd Physician left TCN'
S06V05_O= 'In lst yr:Learn wntd Physician left TCN'
S06V06 = 'In lst yr:prblm fndng cnvnient TCN dr'
S06V06_O= 'In lst yr:prblm fndng cnvnient TCN dr'
S06V07 = 'In lst yr:prblm fndng spclst in cvln ntwrk'
S06V07_O= 'In lst yr:prblm fndng spclst in cvln ntwrk'
S06V08 = 'In lst yr:made appt with dr not in TCN'
S06V08_O= 'In lst yr:made appt with dr not in TCN'
S06V09 = 'In lst yr:dr not seeing old/new TRICARE ptnts'
S06V09_O= 'In lst yr:dr not seeing old/new TRICARE ptnts'
S06V10 = 'In lst yr:prblm finding dr acptng TRICARE'
S06V10_O= 'In lst yr:prblm finding dr acptng TRICARE'

S06V11A = 'Prblm fndng civ ntwrk prsnl Dr:Travel dist'
S06V11AO= 'Prblm fndng civ ntwrk prsnl Dr:Travel dist'
S06V11B = 'Prblm fndng civ ntwrk prsnl Dr:Communicating /w Dr'
S06V11BO= 'Prblm fndng civ ntwrk prsnl Dr:Communicating /w Dr'
S06V11C = 'Prblm fndng civ ntwrk prsnl Dr:No new patients'
S06V11CO= 'Prblm fndng civ ntwrk prsnl Dr:No new patients'
S06V11D = 'Prblm fndng civ ntwrk prsnl Dr:Speciality unavailable'
S06V11DO= 'Prblm fndng civ ntwrk prsnl Dr:Speciality unavailable'
S06V11E = 'Prblm fndng civ ntwrk prsnl Dr:Don't like Drs"
S06V11EO= "Prblm fndng civ ntwrk prsnl Dr:Don't like Drs"
S06V11F = 'Prblm fndng civ ntwrk prsnl Dr:Appt wait too long'
S06V11FO= 'Prblm fndng civ ntwrk prsnl Dr:Appt wait too long'
S06V11G = 'Prblm fndng civ ntwrk prsnl Dr:Dr info unavailable'
S06V11GO= 'Prblm fndng civ ntwrk prsnl Dr:Dr info unavailable'
S06V11H = 'Prblm fndng civ ntwrk prsnl Dr:Other'
S06V11HO= 'Prblm fndng civ ntwrk prsnl Dr:Other'

S06V12A = 'Prblm fndng civ ntwrk spclst:Travel dist'
S06V12AO= 'Prblm fndng civ ntwrk spclst:Travel dist'
S06V12B = 'Prblm fndng civ ntwrk spclst:Communicating /w Dr'
S06V12BO= 'Prblm fndng civ ntwrk spclst:Communicating /w Dr'
S06V12C = 'Prblm fndng civ ntwrk spclst:No new patients'
S06V12CO= 'Prblm fndng civ ntwrk spclst:No new patients'
S06V12D = "Prblm fndng civ ntwrk spclst:Don't like Drs"
S06V12DO= "Prblm fndng civ ntwrk spclst:Don't like Drs"
S06V12E = 'Prblm fndng civ ntwrk spclst:Appt wait too long'
S06V12EO= 'Prblm fndng civ ntwrk spclst:Appt wait too long'
S06V12F = 'Prblm fndng civ ntwrk spclst:Dr info unavailable'
S06V12FO= 'Prblm fndng civ ntwrk spclst:Dr info unavailable'
S06V12G = 'Prblm fndng civ ntwrk spclst:Other'
S06V12GO= 'Prblm fndng civ ntwrk spclst:Other'

S06V13 = 'Prblm fndng civ prsnl dr/nrs accepts TRICARE'
S06V13_O= 'Prblm fndng civ prsnl dr/nrs accepts TRICARE'

S06V14A = 'Prblm fndng prsnl dr accepts TRICARE:Travel dist'
S06V14AO= 'Prblm fndng prsnl dr accepts TRICARE:Travel dist'
S06V14B = 'Prblm fndng prsnl dr accepts TRICARE:Communicating /w Dr'
S06V14BO= 'Prblm fndng prsnl dr accepts TRICARE:Communicating /w Dr'
S06V14C = 'Prblm fndng prsnl dr accepts TRICARE:Not accept TRICARE fees'
S06V14CO= 'Prblm fndng prsnl dr accepts TRICARE:Not accept TRICARE fees'
S06V14D = 'Prblm fndng prsnl dr accepts TRICARE:Speciality unavailable'
S06V14DO= 'Prblm fndng prsnl dr accepts TRICARE:Speciality unavailable'
S06V14E = "Prblm fndng prsnl dr accepts TRICARE:Don't like Drs"
S06V14EO= "Prblm fndng prsnl dr accepts TRICARE:Don't like Drs"
S06V14F = 'Prblm fndng prsnl dr accepts TRICARE:Appt wait too long'
S06V14FO= 'Prblm fndng prsnl dr accepts TRICARE:Appt wait too long'
S06V14G = 'Prblm fndng prsnl dr accepts TRICARE:Dr info unavailable'
S06V14GO= 'Prblm fndng prsnl dr accepts TRICARE:Dr info unavailable'
S06V14H = 'Prblm fndng prsnl dr accepts TRICARE:Other'

S06V14HO='Prblm fndng prsnl dr accepts TRICARE:Other'

S06V15 = 'Made appt /w NON-TRICARE civ splst'
S06V15_O='Made appt /w NON-TRICARE civ splst'
S06V16 = 'Speciality of non-network civ splst'
S06V16_O='Speciality of non-network civ splst'
S06V17 = 'Prblm making appt /w nn civ splst'
S06V17_O='Prblm making appt /w nn civ splst'

S06V18A = 'Prblm fndng nn civ splst:Travel dist'
S06V18AO='Prblm fndng nn civ splst:Travel dist'
S06V18B = 'Prblm fndng nn civ splst:Communicating /w Dr'
S06V18BO='Prblm fndng nn civ splst:Communicating /w Dr'
S06V18C = 'Prblm fndng nn civ splst:Not accept TRICARE fees'
S06V18CO='Prblm fndng nn civ splst:Not accept TRICARE fees'
S06V18D = 'Prblm fndng nn civ splst:Don't like Drs"
S06V18DO="Prblm fndng nn civ splst:Don't like Drs"
S06V18E = 'Prblm fndng nn civ splst:Appt wait too long'
S06V18EO='Prblm fndng nn civ splst:Appt wait too long'
S06V18F = 'Prblm fndng nn civ splst:Dr info unavailable'
S06V18FO='Prblm fndng nn civ splst:Dr info unavailable'
S06V18G = 'Prblm fndng nn civ splst:Other'
S06V18GO='Prblm fndng nn civ splst:Other'

S06Q01 = 'Had blood stool test with home kit'
S06Q01_O='Had blood stool test with home kit'
S06Q02 = 'Time since last bld stl tst /w home kit'
S06Q02_O='Time since last bld stl tst /w home kit'
S06Q03 = 'Had sigmoidoscopy or colonoscopy exam'
S06Q03_O='Had sigmoidoscopy or colonoscopy exam'
S06Q04 = 'Time since last sigmoidoscopy'
S06Q04_O='Time since last sigmoidoscopy'
S06Q05 = 'Time since last colonoscopy'
S06Q05_O='Time since last colonoscopy'
S06Q06 = 'Prsnl dr talk about colon cancer screening tests'
S06Q06_O='Prsnl dr talk about colon cancer screening tests'

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"
N9 = "Coding Scheme Note 9"
N10= "Coding Scheme Note 10"
N10A= "Coding Scheme Note 10A"
N10B= "Coding Scheme Note 10B"
N10C= "Coding Scheme Note 10C"
N10D= "Coding Scheme Note 10D"
N10E= "Coding Scheme Note 10E"
N10F= "Coding Scheme Note 10F"
N10G= "Coding Scheme Note 10G"
N13 = "Coding Scheme Note 13"
N14 = "Coding Scheme Note 14"
N15 = "Coding Scheme Note 15"
N16 = "Coding Scheme Note 16"
N16G= "Coding Scheme Note 16G"
N16H= "Coding Scheme Note 16H"
N17 = "Coding Scheme Note 17"
N18A= "Coding Scheme Note 18A"
N18B= "Coding Scheme Note 18B"
N19 = "Coding Scheme Note 19"
N20 = "Coding Scheme Note 20"

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 Q3FY2006\PROGRAMS\CODINGScheme\CSCHM06Q.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES FOR QUARTER 3 FY2006.

```
*****;
* Program: Cschm06q.sas
* Written: 06/04/2001
* Author: C. Rankin
*
* Input: MERGESYN.SD2 - Merged MPR Sampling, DEERS, and Synovate Response Data
* Output: CSCHM06Q.SD2 - 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
*           5/27/2003 - Updated Variable names for Q2 2003
*           12/05/2003 - Updated Variable names for Q4 2003
*           3/25/2004 - Updated Variable names for Q1 2004
*           6/3/2004 - Updated Variable names for Q2 2004
*           8/23/2004 - Updated Variable names for Q3 2004
*           1/13/2005 - Updated Variable names for Q4 2004
*           4/13/2005 - Updated Variable names for Q1 2005
*           7/20/2005 - Updated Variable names for Q2 2005
*           10/14/2005 - Updated Variable names for Q3 2005
*           12/22/2005 - Updated Variable names for Q4 2005
*           3/20/2006 - Updated Variable names for Q2 FY 2006
* Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
*           Response Data, check for consistency in responses and skip
*           patterns
* Include
* files: Cschm06q.fmt
*****;
```

```
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
```

```
LIBNAME LIBRARY v612 "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN v612 "..\..\DATA\AFINAL";
LIBNAME OUT v612 "..\..\DATA\AFINAL";
```

```
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM06Q;
%LET PERIOD=April, 2005 to March, 2006;
```

```
/* Variable names in survey -- become recoded variables */
```

```
%Let varlist1 =
```

- H06001 H06002A H06002C H06002F H06002G H06002H H06002I H06002J H06002K
- H06002L H06002M H06002N H06002O H06002P H06003 H06004 H06005 H06006
- H06007 H06008 H06009 H06010 H06011 H06012 H06013 H06014 H06015
- H06016 H06017 H06018 H06019 H06020 H06021 H06022 H06023 H06024
- H06025 H06026 H06027 H06028 H06029 H06030 H06031 H06032 H06033
- H06034 H06035 H06036 H06037
- S06B01 S06B02 S06B03 S06B04
- H06038
- S06V01 S06V02 S06V05 S06V06 S06V07 S06V08 S06V09 S06V10 S06V11A
- S06V11B S06V11C S06V11D S06V11E S06V11F S06V11G S06V11H S06V12A S06V12B
- S06V12C S06V12D S06V12E S06V12F S06V12G S06V13 S06V14A S06V14B S06V14C
- S06V14D S06V14E S06V14F S06V14G S06V14H S06V15 S06V16 S06V17 S06V18A
- S06V18B S06V18C S06V18D S06V18E S06V18F S06V18G
- H06039 H06040 H06041 H06042 H06043 H06044 H06045 H06046 H06047
- H06048 H06049 H06050
- H06051 H06052 H06053 H06054 H06055 H06056 H06057 H06058 H06059

```

H06060 H06061 H06063 H06064 H06065 H06066 H06067

H06068F H06068I H06069

H06070 H06070A H06070B H06070C H06070D H06070E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE SREDA
;

/* _O variables are the original values from the survey response */

%Let varlist2 =
H06001_O H06002AO H06002CO H06002FO H06002GO H06002HO H06002IO H06002JO H06002KO
H06002LO H06002MO H06002NO H06002OO H06002PO H06003_O H06004_O H06005_O H06006_O
H06007_O H06008_O H06009_O H06010_O H06011_O H06012_O H06013_O H06014_O H06015_O
H06016_O H06017_O H06018_O H06019_O H06020_O H06021_O H06022_O H06023_O H06024_O
H06025_O H06026_O H06027_O H06028_O H06029_O H06030_O H06031_O H06032_O H06033_O
H06034_O H06035_O H06036_O H06037_O
S06B01_O S06B02_O S06B03_O S06B04_O
H06038_O
S06V01_O S06V02_O S06V05_O S06V06_O S06V07_O S06V08_O S06V09_O S06V10_O S06V11AO
S06V11BO S06V11CO S06V11DO S06V11EO S06V11FO S06V11GO S06V11HO S06V12AO S06V12BO
S06V12CO S06V12DO S06V12EO S06V12FO S06V12GO S06V13_O S06V14AO S06V14BO S06V14CO
S06V14DO S06V14EO S06V14FO S06V14GO S06V14HO S06V15_O S06V16_O S06V17_O S06V18AO
S06V18BO S06V18CO S06V18DO S06V18EO S06V18FO S06V18GO
H06039_O H06040_O H06041_O H06042_O H06043_O H06044_O H06045_O H06046_O H06047_O
H06048_O H06049_O H06050_O
H06051_O H06052_O H06053_O H06054_O H06055_O H06056_O H06057_O H06058_O H06059_O
H06060_O H06061_O H06063_O H06064_O H06065_O H06066_O H06067_O

H06068FO H06068IO H06069_O

H06070_O H06070AO H06070BO H06070CO H06070DO H06070EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O SREDA_O
;

TITLE "DoD 2006 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";

DATA MERGESYN;

    SET IN.MERGESYN(RENAME=(H06H69=H06069CH
                            H06H68F = H06068F
                            H06H68FN= H06068FN
                            H06H68I = H06068I
                            H06H68IN= H06068IN
                            H06H69N = H06069N
                            ));

*****;
* 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 H06068F LT 1 THEN H06068F=H06068FN;
IF H06068I IN (-9,.) THEN H06068I=H06068IN;

H06069= COMPRESS(H06069CH,' ')*1;

DROP H06069CH;

```

```

IF H06069=0 AND H06069N=-9 THEN H06069 =H06069N;
IF H06069<100 AND H06069N NE -9 THEN H06069 =H06069N;

*** Correct odd height and weights Per Eric Schone;

IF H06068F < 2 OR
   H06068F > 8
THEN H06068F= -7;

IF H06069 < 40 OR
   H06069 > 1000
THEN H06069= -7;

IF H06069=997 THEN H06069=-7;

/* JMA
****Multiple responses were given to this question so H06070 is being created
****from the multiple responses.;
*/

IF H06070B=1 THEN H06070=2;
ELSE IF H06070E=1 THEN H06070=5;
ELSE IF H06070C=1 THEN H06070=3;
ELSE IF H06070D=1 THEN H06070=4;
ELSE IF H06070A=1 THEN H06070=1;

RUN;

DATA OUT.CSCHM06Q;

LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
INFORMAT &VARLIST2. 4.;
%INCLUDE "CSCHM06Q.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 2006 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)=.0;
  END;
END;

```

```

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(*)
  H06002A H06002C H06002F H06002G H06002H H06002I H06002J H06002K
  H06002L H06002M H06002N H06002O H06002P

  S06V11A S06V11B S06V11C S06V11D S06V11E S06V11F S06V11G S06V11H
  S06V12A S06V12B S06V12C S06V12D S06V12E S06V12F S06V12G
  S06V14A S06V14B S06V14C S06V14D S06V14E S06V14F S06V14G S06V14H
  S06V18A S06V18B S06V18C S06V18D S06V18E S06V18F S06V18G

  H06070A H06070B H06070C H06070D H06070E

  SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
;

ARRAY INFORMAT(*)
  H06002AO H06002CO H06002FO H06002GO H06002HO H06002IO
  H06002JO H06002KO H06002LO H06002MO H06002NO H06002OO H06002PO

  S06V11AO S06V11BO S06V11CO S06V11DO S06V11EO S06V11FO S06V11GO S06V11HO
  S06V12AO S06V12BO S06V12CO S06V12DO S06V12EO S06V12FO S06V12GO
  S06V14AO S06V14BO S06V14CO S06V14DO S06V14EO S06V14FO S06V14GO S06V14HO
  S06V18AO S06V18BO S06V18CO S06V18DO S06V18EO S06V18FO S06V18GO

  H06070AO H06070BO H06070CO H06070DO H06070EO
  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
  H06002A H06002C H06002F H06002G H06002H H06002I H06002J H06002K
  H06002L H06002M H06002N H06002O H06002P

  S06V11A S06V11B S06V11C S06V11D S06V11E S06V11F S06V11G S06V11H
  S06V12A S06V12B S06V12C S06V12D S06V12E S06V12F S06V12G
  S06V14A S06V14B S06V14C S06V14D S06V14E S06V14F S06V14G S06V14H
  S06V18A S06V18B S06V18C S06V18D S06V18E S06V18F S06V18G

  H06070A H06070B H06070C H06070D H06070E

  SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
MARKED.;

*****;

/* skip coding scheme for all surveys not returned **/

IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;

/** Note 1 -- H06006, H06007 health plan usage **/

IF H06006 > 0 OR H06006 =.D THEN N1=1;
ELSE IF H06006=.N THEN DO;

```

```

IF H06007 NOT=. THEN DO;
  N1=2;
  H06007=.C;
END;
ELSE DO;
  N1=3;
  H06007=.N;
END;
END;
ELSE IF H06006=. THEN N1=4;

```

/** Note 2 -- H06008 H06009 H06010 H06011: Personal doctor or nurse **/

```

IF H06008 IN (1,.) AND H06009 = .N THEN DO;
  H06008 = 2;
  H06009 =.C;
  IF H06010=. THEN H06010=.N;
  ELSE H06010=.C;
  N2=1;
END;
ELSE IF H06008 IN (1) AND H06009 NE .N THEN DO;
  IF H06010 IN (1) AND H06011 IN (1,2,3) THEN DO;
    H06011=.C;
    N2=2;
  END;
  ELSE IF H06010 IN (.) AND H06011 IN (1,2,3) THEN DO;
    H06010=2;
    N2=3;
  END;
  ELSE IF H06010 IN (1) AND H06011 IN (.) THEN DO;
    H06011=.N;
    N2=4;
  END;
  ELSE IF H06010 IN (2) THEN DO;
    N2=5;
  END;
  ELSE IF H06010 IN (.) AND H06011 IN (.) THEN DO;
    N2=6;
  END;
END;
ELSE IF H06008 IN (2,.) THEN DO;
  IF H06009 NOT IN (.N, .) AND H06010 IN (1) AND H06011 IN (1,2,3)
  THEN DO;
    H06008=1;
    H06011=.C;
    N2=7;
  END;
  ELSE IF H06009 NOT IN (.N, .) AND H06010 IN (.) AND H06011 IN (1,2,3)
  THEN DO;
    H06008=1;
    N2=8;
  END;
  ELSE IF H06009 NOT IN (.N, .) AND H06010 IN (.) AND H06011 IN (.)
  THEN DO;
    H06008=1;
    N2=9;
  END;
  ELSE IF H06008=2 AND H06009 IN (.) AND H06010 IN (1) AND H06011 IN (1,2,3)
  THEN DO;
    H06009=.N;
    H06010=.C;
    N2=10;
  END;
  ELSE IF H06008 = 2 AND H06009 IN (.N)
  THEN DO;
    H06009=.C;
    IF H06010=. THEN H06010=.N;
    ELSE H06010=.C;
    N2=11;
  END;
  ELSE IF H06010 IN (1)
  THEN DO;

```

```

H06008=1;
IF H06011=. THEN H06011=.N;
ELSE H06011=.C;
N2=12;
END;
ELSE IF H06010 IN (2)
THEN DO;
H06008=1;
N2=13;
END;
ELSE IF H06008=2 AND H06009 IN (.) AND H06010= . THEN DO;
H06009=.N;
H06010=.N;
N2=14;
END;
ELSE IF H06008=. AND H06009=. AND H06010=. THEN DO;
N2=15;
END;
END;

```

/** Note 3 -- H06012, H06013: needed to see a specialist in last 12 months **/

```

IF H06012=1 AND H06013 IN (1,2,3,.) THEN N3=1;
ELSE IF H06012 IN (1,.) AND H06013=.N THEN DO;
H06012=2;
H06013=.C;
N3=2;
END;
ELSE IF H06012 IN (2,.) AND H06013 IN (1,2,3) THEN DO;
H06012=1;
N3=3;
END;
ELSE IF H06012=2 AND H06013 IN (.,.N) THEN DO;
IF H06013=. THEN H06013=.N;
ELSE H06013=.C;
N3=4;
END;
ELSE IF H06012=. AND H06013=. THEN N3=5;

```

/** Note 4 -- H06014, H06015: saw a specialist in last 12 months **/

```

IF H06014=1 AND H06015 IN (0,1,2,3,4,5,6,7,8,9,10,.) THEN N4=1;
ELSE IF H06014 IN (1,.) AND H06015=.N THEN DO;
H06014=2;
H06015=.C;
N4=2;
END;
ELSE IF H06014 IN (2,.) AND H06015 IN (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
H06014=1;
N4=3;
END;
ELSE IF H06014=2 AND H06015 IN (.,.N) THEN DO;
IF H06015=. THEN H06015=.N;
ELSE H06015=.C;
N4=4;
END;
ELSE IF H06014=. AND H06015=. THEN N4=5;

```

/** Note 5 -- called a doctor's office: H06016, H06017 **/

```

IF H06016=1 AND H06017 IN (1,2,3,4,.) THEN N5=1;
ELSE IF H06016 IN (1,.) AND H06017=.N THEN DO;
H06016=2;
H06017=.C;
N5=2;
END;

```

```

ELSE IF H06016 IN (2,..) AND H06017 IN (1,2,3,4) THEN DO;
  H06016=1;
  N5=3;
END;
ELSE IF H06016=2 AND H06017 IN (,..N) THEN DO;
  IF H06017=. THEN H06017=.N;
  ELSE H06017=.C;
  N5=4;
END;
ELSE IF H06016=. AND H06017=. THEN N5=5;

/** Note 6 -- H06018,H06019,H06020: illness or injury **/

ARRAY NOTE6 H06019 H06020;
N6MARK=0;
N6NMISS=0;
N6NN=0;

DO OVER NOTE6;
  IF NOTE6 NE . THEN N6NMISS+1;
  IF NOTE6 NOT IN (.N,..) THEN N6MARK+1;
  IF NOTE6 EQ .N THEN N6NN+1;
END;

IF H06018=1 AND N6NMISS=0 THEN DO;
  N6=1;
END;
ELSE IF H06018 IN (1,..) AND N6NMISS>0 AND N6MARK=0 THEN DO;
  H06018=2;
  N6=2;
  DO OVER NOTE6;
    IF NOTE6=. THEN NOTE6=.N;
    ELSE NOTE6=.C;
  END;
END;
ELSE IF H06018=1 AND N6MARK=1 AND N6NN=1 THEN DO;
  DO OVER NOTE6;
    IF NOTE6=.N THEN NOTE6=.;
  END;
  N6=3;
END;
ELSE IF H06018=1 AND N6MARK>0 THEN DO;
  N6=4;
END;
ELSE IF H06018=2 AND N6MARK=1 AND N6NN=1 THEN DO;
  H06019=.C;
  H06020=.C;
  N6=5;
END;
ELSE IF H06018 IN (2,..) AND N6MARK>0 THEN DO;
  H06018=1;
  N6=6;
  DO OVER NOTE6;
    IF NOTE6=.N THEN NOTE6=.;
  END;
END;
ELSE IF H06018=2 AND (N6NMISS=0 OR (N6NMISS>0 AND N6MARK=0)) THEN DO;
  N6=7;
  DO OVER NOTE6;
    IF NOTE6=. THEN NOTE6=.N;
    ELSE NOTE6=.C;
  END;
END;
ELSE IF H06018=. AND N6MARK=1 AND N6NN=1 THEN DO;
  H06018=2;
  H06019=.C;
  H06020=.C;
  N6=8;
END;
ELSE IF H06018=. AND N6NMISS=0 THEN N6=9;

```

```
DROP N6NMISS N6MARK N6NN;
```

```
/** Note 7 -- H06021,H06022,H06023: regular or routine healthcare **/
```

```
ARRAY NOTE7 H06022 H06023;  
N7MARK=0;  
N7NMISS=0;  
N7NN=0;
```

```
DO OVER NOTE7;  
  IF NOTE7 NE . THEN N7NMISS+1;  
  IF NOTE7 NOT IN (.N,.) THEN N7MARK+1;  
  IF NOTE7 EQ .N THEN N7NN+1;  
END;
```

```
IF H06021=1 AND N7NMISS=0 THEN DO;  
  N7=1;
```

```
END;
```

```
ELSE IF H06021 IN (1,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;  
  H06021=2;  
  N7=2;  
  DO OVER NOTE7;  
    IF NOTE7=. THEN NOTE7=.N;  
    ELSE NOTE7=.C;  
  END;
```

```
END;
```

```
ELSE IF H06021=1 AND N7MARK=1 AND N7NN=1 THEN DO;  
  DO OVER NOTE7;  
    IF NOTE7=.N THEN NOTE7=.;  
  END;  
  N7=3;
```

```
END;
```

```
ELSE IF H06021=1 AND N7MARK>0 THEN DO;  
  N7=4;
```

```
END;
```

```
ELSE IF H06021=2 AND N7MARK=1 AND N7NN=1 THEN DO;  
  H06022=.C;  
  H06023=.C;  
  N7=5;
```

```
END;
```

```
ELSE IF H06021 IN (2,.) AND N7MARK>0 THEN DO;  
  H06021=1;  
  N7=6;  
  DO OVER NOTE7;  
    IF NOTE7=.N THEN NOTE7=.;  
  END;
```

```
END;
```

```
ELSE IF H06021=2 AND (N7NMISS=0 OR (N7NMISS>0 AND N7MARK=0)) THEN DO;  
  N7=7;  
  DO OVER NOTE7;  
    IF NOTE7=. THEN NOTE7=.N;  
    ELSE NOTE7=.C;  
  END;
```

```
END;
```

```
ELSE IF H06021=. AND N7MARK=1 AND N7NN=1 THEN DO;  
  H06021=2;  
  H06022=.C;  
  H06023=.C;  
  N7=8;
```

```
END;
```

```
ELSE IF H06021=. AND N7NMISS=0 THEN N7=9;
```

```
DROP N7NMISS N7MARK N7NN;
```

```
/** Note 8 -- H06025, H06026-H06037: doctor's office or clinic **/
```

```
ARRAY NOTE8 H06026-H06037;
```



```

N8MARK=0;
N8NMISS=0;

DO OVER NOTE8;
  IF NOTE8 NE . THEN N8NMISS+1;
  IF NOTE8 NOT IN (., .N) THEN N8MARK+1;
END;

IF H06025=1 THEN DO;
  N8=1;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF H06025 IN (2,3,4,5,6,7,..) AND N8NMISS>0 AND N8MARK=0 THEN DO;
  H06025=1;
  N8=2;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF H06025 IN (2,3,4,5,6,7) AND (N8NMISS=0 OR N8MARK>0) THEN DO;
  DO OVER NOTE8;
    IF NOTE8=.N THEN NOTE8=.;
  END;
  N8=3;
END;
ELSE IF H06025=. AND N8NMISS=0 THEN N8=4;
ELSE IF H06025 IN (.) AND N8MARK>0 THEN DO;
  N8=5;
  DO OVER NOTE8;
    IF NOTE8=.N THEN NOTE8=.;
  END;
END;

DROP N8NMISS N8MARK;

```

```

/** Note 9 -- You or doctor believed you needed care, tests or treatment:
    H06026, H06027 **/

```

```

IF H06026 IN (.N, .C) THEN N9=1;
ELSE IF H06026=1 AND H06027 IN (1,2,3,..) THEN N9=2;
ELSE IF H06026 IN (1,..) AND H06027=.N THEN DO;
  H06026=2;
  H06027=.C;
  N9=3;
END;
ELSE IF H06026 IN (2,..) AND H06027 IN (1,2,3) THEN DO;
  H06026=1;
  N9=4;
END;
ELSE IF H06026=2 AND H06027 IN (.,.N) THEN DO;
  IF H06027=. THEN H06027=.N;
  ELSE H06027=.C;
  N9=5;
END;
ELSE IF H06026=. AND H06027=. THEN N9=6;

```

```

/** Note 10 -- Needed approval from healthplan for care, tests or treatment:
    H06028, H06029 **/

```

```

IF H06028 IN (.N, .C) THEN N10=1;
ELSE IF H06028=1 AND H06029 IN (1,2,3,..) THEN N10=2;
ELSE IF H06028 IN (1,..) AND H06029=.N THEN DO;
  H06028=2;

```

```

        H06029=.C;
        N10=3;
    END;
    ELSE IF H06028 IN (2,.) AND H06029 IN (1,2,3) THEN DO;
        H06028=1;
        N10=4;
    END;
    ELSE IF H06028=2 AND H06029 IN (.,.N) THEN DO;
        IF H06029=. THEN H06029=.N;
        ELSE H06029=.C;
        N10=5;
    END;
    ELSE IF H06028=. AND H06029=. THEN N10=6;

/** Note 10AA -- S06B02-S06B04: overall mental health **/

ARRAY NOTE10AA S06B03 S06B04;
N10AANMISS=0;
N10AAMARK=0;
DO OVER NOTE10AA;
    IF NOTE10AA NE . THEN N10AANMISS+1;          /* check for all missing */
    IF NOTE10AA NOT IN (.) THEN N10AAMARK+1;      /* not missing */
END;

IF S06B02=1 AND (N10AANMISS=0 OR N10AAMARK>0) THEN N10AA=1;
ELSE IF S06B02 IN (2,.) AND N10AAMARK>0 THEN DO;
    S06B02=1;
    N10AA=2;
END;
ELSE IF S06B02=2 AND N10AANMISS=0 THEN DO;
    N10AA=3;
    DO OVER NOTE10AA;
        IF NOTE10AA=. THEN NOTE10AA=.N;
        ELSE NOTE10AA=.C;
    END;
END;
ELSE IF S06B02=. AND N10AANMISS=0 THEN N10AA=4;

DROP N10AAMARK N10AANMISS;

/** Note 10A -- S06V01, S06V02 S06V05-S06V18G: health care received from TRICARE civilian network
**/

ARRAY NOTE10A1 S06V02 S06V05-S06V10 S06V13 S06V15-S06V17;
ARRAY NOTE10A2 S06V11A--S06V12G S06V14A--S06V14H S06V18A--S06V18G;
N10AMARK=0;
N10ANMISS=0;

DO OVER NOTE10A1;
    IF NOTE10A1 NE . THEN N10ANMISS+1;
    IF NOTE10A1 NOT IN (.,.) THEN N10AMARK+1;
END;

DO OVER NOTE10A2;
    IF NOTE10A2 NOT IN (.,2) THEN N10ANMISS+1;
    IF NOTE10A2 NOT IN (.,.,2) THEN N10AMARK+1;
END;

IF S06V01 IN (1,2,3,4) AND (N10ANMISS=0 OR N10AMARK>0) THEN N10A=1;
ELSE IF S06V01 IN (1,2,3,.) AND N10ANMISS>0 AND N10AMARK=0 THEN DO;
    N10A=2;
    S06V01=.N;
    DO OVER NOTE10A1;
        IF NOTE10A1=. THEN NOTE10A1=.N;
        ELSE NOTE10A1=.C;
    END;
    DO OVER NOTE10A2;
        IF NOTE10A2 IN (.,2) THEN NOTE10A2=.N;
        ELSE NOTE10A2=.C;
    END;
END;
END;

```

```

ELSE IF S06V01=4 AND N10ANMISS>0 AND N10AMARK=0 THEN DO;
  N10A=3;
END;
ELSE IF S06V01=.N
THEN DO;
  N10A=4;
  DO OVER NOTE10A1;
    IF NOTE10A1=. THEN NOTE10A1=.N;
    ELSE NOTE10A1=.C;
  END;
  DO OVER NOTE10A2;
    IF NOTE10A2 IN (.,2) THEN NOTE10A2=.N;
    ELSE NOTE10A2=.C;
  END;
END;
ELSE IF S06V01=. THEN N10A=5;

DROP N10ANMISS N10AMARK;

/** Note 10B -- S06V06, S06V11A-S06V11H: Problems finding a doctor
from civilian network **/

ARRAY NOTE10B S06V11A--S06V11H;

N10BNMISS=0;

DO OVER NOTE10B;
  IF NOTE10B NOT IN (.,2) THEN N10BNMISS+1;
END;

IF S06V06 IN (.N, .C) AND S06V11A IN (.N, .C) AND
S06V11B IN (.N, .C) AND S06V11C IN (.N, .C) AND
S06V11D IN (.N, .C) AND S06V11E IN (.N, .C) AND
S06V11F IN (.N, .C) AND S06V11G IN (.N, .C) AND
S06V11H IN (.N, .C)
THEN N10B=1;
ELSE IF S06V06 IN (3,.N) THEN DO;
  N10B=2;
  DO OVER NOTE10B;
    IF NOTE10B IN (.,2) THEN NOTE10B=.N;
    ELSE NOTE10B=.C;
  END;
END;
ELSE IF S06V06 IN (1,2) THEN DO;
  N10B=3;
END;
ELSE IF S06V06=. AND N10BNMISS > 0 THEN DO;
  N10B=4;
END;
ELSE IF S06V06=. THEN DO;
  N10B=5;
  DO OVER NOTE10B;
    IF NOTE10B NE . THEN NOTE10B=.;
  END;
END;

DROP N10BNMISS;

/** Note 10C -- S06V07, S06V12A-S06V12G: Problems finding a specialist
from civilian network **/

ARRAY NOTE10C S06V12A--S06V12G;

N10CNMISS=0;

DO OVER NOTE10C;
  IF NOTE10C NOT IN (.,2) THEN N10CNMISS+1;
END;

```

```

IF S06V07 IN (.N, .C) AND S06V12A IN (.N, .C) AND
S06V12B IN (.N, .C) AND S06V12C IN (.N, .C) AND
S06V12D IN (.N, .C) AND S06V12E IN (.N, .C) AND
S06V12F IN (.N, .C) AND S06V12G IN (.N, .C)
THEN N10C=1;
ELSE IF S06V07 IN (3,.N) THEN DO;
  N10C=2;
  DO OVER NOTE10C;
    IF NOTE10C IN (.,2) THEN NOTE10C=.N;
    ELSE NOTE10C=.C;
  END;
END;
ELSE IF S06V07 IN (1,2) THEN DO;
  N10C=3;
END;
ELSE IF S06V07=. AND N10CNMISS > 0 THEN DO;
  N10C=4;
END;
ELSE IF S06V07=. THEN DO;
  N10C=5;
  DO OVER NOTE10C;
    IF NOTE10C NE . THEN NOTE10C=.;
  END;
END;

DROP N10CNMISS;

/** Note 10D -- S06V08 S06V09-S06V10, S06V13-S06V18G
: health care received from civilian providers
that are not a part of TRICARE
civilian network **/

ARRAY NOTE10DA S06V09 S06V10 S06V13 S06V15-S06V17 ;
ARRAY NOTE10DB S06V14A--S06V14H S06V18A--S06V18G ;

IF S06V08 IN (.C, .N) THEN N10D=1;
ELSE IF S06V08 IN (1,., .D) THEN N10D=2;
ELSE IF S06V08=2
THEN DO;
  N10D=3;
  DO OVER NOTE10DA;
    IF NOTE10DA=. THEN NOTE10DA=.N;
    ELSE NOTE10DA=.C;
  END;
  DO OVER NOTE10DB;
    IF NOTE10DB IN (.,2) THEN NOTE10DB=.N;
    ELSE NOTE10DB=.C;
  END;
END;

/** Note 10E -- S06V13, S06V14A-S06V14H: Problems finding a personal Dr
who accepts TRICARE **/

ARRAY NOTE10E S06V14A--S06V14H;

N10ENMISS=0;

DO OVER NOTE10E;
  IF NOTE10E NOT IN (.,2) THEN N10ENMISS+1;
END;

IF S06V13 IN (.N, .C) AND S06V14A IN (.N, .C) AND
S06V14B IN (.N, .C) AND S06V14C IN (.N, .C) AND
S06V14D IN (.N, .C) AND S06V14E IN (.N, .C) AND
S06V14F IN (.N, .C) AND S06V14G IN (.N, .C) AND
S06V14H IN (.N, .C)
THEN N10E=1;
ELSE IF S06V13 IN (3,.N) THEN DO;
  N10E=2;

```

```

DO OVER NOTE10E;
  IF NOTE10E IN (.,2) THEN NOTE10E=.N;
  ELSE NOTE10E=.C;
END;
END;
ELSE IF S06V13 IN (1,2) THEN DO;
  N10E=3;
END;
ELSE IF S06V13=. AND N10ENMISS > 0 THEN DO;
  N10E=4;
END;
ELSE IF S06V13=. THEN DO;
  N10E=5;
  DO OVER NOTE10E;
    IF NOTE10E NE . THEN NOTE10E=.;
  END;
END;

DROP N10ENMISS;

/** Note 10F -- S06V15, S06V16, S06V17, S06V18A-S06V18G
                : Problems making an appointment
                with a civilian specialist
                who is not part of TRICARE's network **/

ARRAY NOTE10FA S06V16 S06V17;
ARRAY NOTE10FB S06V18A--S06V18G;

N10FNMISS=0;

DO OVER NOTE10FA;
  IF NOTE10FA NOT IN (.) THEN N10FNMISS+1;
END;

DO OVER NOTE10FB;
  IF NOTE10FB NOT IN (.,2) THEN N10FNMISS+1;
END;

IF S06V15 IN (.N, .C)
THEN N10F=1;
ELSE IF S06V15 IN (1) THEN DO;
  N10F=3;
END;
ELSE IF S06V15 IN (2, .D) THEN DO;
  N10F=2;
  DO OVER NOTE10FA;
    IF NOTE10FA IN (.) THEN NOTE10FA=.N;
    ELSE NOTE10FA=.C;
  END;
  DO OVER NOTE10FB;
    IF NOTE10FB IN (.,2) THEN NOTE10FB=.N;
    ELSE NOTE10FB=.C;
  END;
END;
ELSE IF S06V15=. AND N10FNMISS > 0 THEN DO;
  N10F=4;
  S06V15=1;
END;
ELSE IF S06V15=. THEN DO;
  N10F=5;
  DO OVER NOTE10FA;
    IF NOTE10FA NE . THEN NOTE10FA=.;
  END;
  DO OVER NOTE10FB;
    IF NOTE10FB NE . THEN NOTE10FB=.;
  END;
END;

DROP N10FNMISS;

```

```
/** Note 10G -- S06V17, S06V18A-S06V18G: Non-network civilian specialist **/
```

```
ARRAY NOTE10G S06V18A--S06V18G;
```

```
N10GNMISS=0;
```

```
DO OVER NOTE10G;
```

```
IF NOTE10G NOT IN (.,2) THEN N10GNMISS+1;
```

```
END;
```

```
IF S06V17 IN (.N, .C) AND S06V18A IN (.N, .C) AND  
S06V18B IN (.N, .C) AND S06V18C IN (.N, .C) AND  
S06V18D IN (.N, .C) AND S06V18E IN (.N, .C) AND  
S06V18F IN (.N, .C) AND S06V18G IN (.N, .C)
```

```
THEN N10G=1;
```

```
ELSE IF S06V17 IN (3) THEN DO;
```

```
  N10G=2;
```

```
  DO OVER NOTE10G;
```

```
    IF NOTE10G IN (.,2) THEN NOTE10G=.N;
```

```
    ELSE NOTE10G=.C;
```

```
  END;
```

```
END;
```

```
ELSE IF S06V17 IN (1,2) THEN DO;
```

```
  N10G=3;
```

```
END;
```

```
ELSE IF S06V17=. AND N10GNMISS > 0 THEN DO;
```

```
  N10G=4;
```

```
END;
```

```
ELSE IF S06V17=. THEN DO;
```

```
  N10G=5;
```

```
  DO OVER NOTE10G;
```

```
    IF NOTE10G NE . THEN NOTE10G=.;
```

```
  END;
```

```
END;
```

```
DROP N10GNMISS;
```

```
/** Note 13 -- H06039, H06040-H06041: claims to health plan **/
```

```
ARRAY NOTE13 H06040-H06041;
```

```
N13MARK=0;
```

```
N13NMISS=0;
```

```
N13NDK=0;
```

```
DO OVER NOTE13;
```

```
IF NOTE13 NE . THEN N13NMISS+1;
```

```
IF NOTE13 NOT IN (.N,.) THEN N13MARK+1;
```

```
IF NOTE13 NOT IN (.,.D) THEN N13NDK+1;
```

```
END;
```

```
IF H06039=1 AND
```

```
(N13NMISS=0 OR (N13MARK>0 AND N13NDK>0) OR (N13NMISS>0 AND N13NDK=0))
```

```
THEN DO;
```

```
  N13=1;
```

```
  DO OVER NOTE13;
```

```
    IF NOTE13=.N THEN NOTE13=.;
```

```
  END;
```

```
END;
```

```
ELSE IF H06039 IN (1,..D) AND N13NMISS>0 AND N13MARK=0 THEN DO;
```

```
  N13=2;
```

```
  H06039=2;
```

```
  DO OVER NOTE13;
```

```
    IF NOTE13=. THEN NOTE13=.N;
```

```
    ELSE NOTE13=.C;
```

```
  END;
```

```
END;
```

```
ELSE IF H06039 IN (2,..D) AND
```

```
((N13MARK>0 AND N13NDK>0) OR (N13NMISS>0 AND N13NDK=0))
```

```
THEN DO;
```

```
  H06039=1;
```

```

N13=3;
DO OVER NOTE13;
  IF NOTE13=.N THEN NOTE13=.;
END;
END;
ELSE IF H06039 IN (2) AND (N13NMISS=0 OR (N13NMISS>0 AND N13MARK=0)) THEN DO;
N13=4;
DO OVER NOTE13;
  IF NOTE13=. THEN NOTE13=.N;
  ELSE NOTE13=.C;
END;
END;
ELSE IF H06039 IN (.D) AND N13NMISS=0 THEN DO;
N13=5;
DO OVER NOTE13;
  NOTE13=.N;
END;
END;
ELSE IF H06039 IN (.) AND N13NMISS=0 THEN N13=6;

DROP N13NMISS N13MARK N13NDK;

/** NOTE14 -- H06042, H06043: **/

IF H06042=1 AND H06043 IN (1,2,3,.) THEN N14=1;
ELSE IF H06042 IN (1,.) AND H06043=.N THEN DO;
  H06042=2;
  H06043=.C;
  N14=2;
END;
ELSE IF H06042 IN (2,.) AND H06043 IN (1,2,3) THEN DO; /* JMA per Daisy's suggestion 3/20/03
*/
  H06042=1;
  N14=3;
END;
ELSE IF H06042=2 AND H06043 IN (.N,.) THEN DO;
  IF H06043=. THEN H06043=.N;
  ELSE H06043=.C;
  N14=4;
END;
ELSE IF H06042=. AND H06043=. THEN N14=5;

/** NOTE15 -- H06044, H06045: health plan's customer service **/

IF H06044=1 AND H06045 IN (1,2,3,.) THEN N15=1;
ELSE IF H06044 IN (1,.) AND H06045=.N THEN DO;
  H06044=2;
  H06045=.C;
  N15=2;
END;
ELSE IF H06044 IN (2,.) AND H06045 IN (1,2,3) THEN DO;
  H06044=1;
  N15=3;
END;
ELSE IF H06044=2 AND H06045 IN (.N,.) THEN DO;
  IF H06045=. THEN H06045=.N;
  ELSE H06045=.C;
  N15=4;
END;
ELSE IF H06044=. AND H06045=. THEN N15=5;

/** NOTE16 -- H06046, H06047: paperwork **/

IF H06046=1 AND H06047 IN (1,2,3,.) THEN N16=1;
ELSE IF H06046 IN (1,.) AND H06047=.N THEN DO;
  H06046=2;
  H06047=.C;
  N16=2;

```

```

END;
ELSE IF H06046 IN (2,.) AND H06047 IN (1,2,3) THEN DO;
  H06046=1;
  N16=3;
END;
ELSE IF H06046=2 AND H06047 IN (.N,.) THEN DO;
  IF H06047=. THEN H06047=.N;
  ELSE H06047=.C;
  N16=4;
END;
ELSE IF H06046=. AND H06047=. THEN N16=5;

/** Note 17 -- smoking: H06052, H06053-H06057 **/

ARRAY NOTE17 H06055 H06056 H06057;

IF H06052=1 and H06053 IN (3,4) THEN DO; /* still smoke */
  IF H06054 NE . THEN H06054=.C;
  ELSE H06054=.N;
  N17=1;
END;
ELSE IF H06052=1 AND H06053=2 THEN DO; /* quit */
  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */
  IF H06054 IN (2,.D) THEN DO; /* > 1 year ago */
    DO OVER NOTE17;
      IF NOTE17=. THEN NOTE17=.N;
      ELSE NOTE17=.C;
    END;
    N17=2;
  END;
  ELSE IF H06054 IN (3,.) THEN N17=3; /* < 1 year ago */
END;
ELSE IF H06052=1 AND H06053 IN (.D,.) THEN DO; /* don't know */
  IF H06054=2 THEN DO; /* > 1 year ago */

  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
  H06053=2;
  N17=4;
END;
ELSE IF H06054=3 THEN DO; /* < 1 year ago */
  H06053=2;
  N17=5;
END;
ELSE IF H06053 IN (.D) AND H06054 IN (.D,.) THEN DO;
  N17=6;
  IF H06054=. THEN H06054=.N;
  ELSE H06054=.C;
  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
END;
ELSE IF H06053 IN (.) AND H06054 IN (.D) THEN DO;
  N17=7;
  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
END;
ELSE IF H06053 IN (.) AND H06054 IN (.) THEN DO;
  N17=8;
END;

```



```

END;
ELSE IF H06052 IN (2,.D,.) AND H06053 IN (3,4) THEN DO;
  H06052=1;

  IF H06054 NE . THEN H06054=.C;
  ELSE H06054=.N;

  N17=9;
END;
ELSE IF H06052 IN (2,.D) AND H06053 IN (2,.D, .) THEN DO; /*never smoke*/
  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

  IF H06053 NE . THEN H06053 =.C;
  ELSE H06053=.N;

  IF H06054 NE . THEN H06054 =.C;
  ELSE H06054=.N;

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;

  N17=10;
END;
ELSE IF H06052 IN ( .) THEN DO;
  IF (H06053 IN (2) AND
    H06054 IN (.) AND
    (H06055 IN (2,3,4,5) OR H06056 IN (2,3,4,5) OR H06057 IN (2,3,4,5)))
  THEN DO;
    /* JMA March 25 2004,
    Updated because H06056 and H06057 have been added to the
    skip pattern */

    H06052=1;
    H06054=3;
    N17=11;
  END;
ELSE IF H06053 IN (2,.) THEN DO; /*MRE/blank*/
  IF H06054 IN (2, .D) THEN DO;
    /* JMA March 25 2004,
    Updated because H06056 and H06057 have been added to the
    skip pattern */

    DO OVER NOTE17;
      IF NOTE17=. THEN NOTE17=.N;
      ELSE NOTE17=.C;
    END;
    N17=12;
  END;
ELSE IF H06054 IN (3,.) THEN DO;
  IF (H06055 IN (2,3,4,5) OR H06056 IN (2,3,4,5) OR H06057 IN (2,3,4,5))
  THEN DO;
    H06052=1;
    N17=13;
  END;
  ELSE N17=14;
END;
END;
ELSE IF H06053=.D THEN DO; /*MRE/blank*/
  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

  IF H06054 NE . THEN H06054 =.C;
  ELSE H06054=.N;

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;

```

```

        N17=15;
    END;
END;

/** Note 18 - gender H06058, SEX, H06059--H06065,
        XSEXA */

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

ARRAY fmaleval H06059 H06060 H06061 H06063 H06064 H06065
        ;

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 H06058=. THEN DO;
    IF (SEX='F' AND FMALE) THEN DO;
        N18a=1;
        XSEXA=2;
    END;
    ELSE IF (SEX='F' AND FMALE=0) THEN DO;
        N18a=2;
        XSEXA=2;
    END;
    ELSE IF (SEX='M' AND FMALE) THEN DO;
        N18a=3;
        XSEXA=1;
    END;
    ELSE IF (SEX='M' AND FMALE=0) THEN DO;
        N18a=4;
        XSEXA=1;
    END;
    ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
        N18a=5;
        XSEXA=2;
    END;
    ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
        N18a=6;
        XSEXA=.;
    END;
    ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
        N18a=7;
        XSEXA=.;
    END;
END;
ELSE IF (H06058=1) THEN DO;
    IF FMALE=0 THEN DO;
        N18a=8;
        XSEXA=1;
    END;
    ELSE IF FMALE THEN DO;
        IF SEX='F' THEN DO;
            N18a=9;
            XSEXA=2;
        END;
        ELSE DO;
            N18a=10;
            XSEXA=1;
        END;
    END;
END;
ELSE IF (H06058=2) THEN DO;

```

```

IF FMALE THEN DO;
  N18a=11;
  XSEXA=2;
END;
ELSE IF FMALE=0 THEN DO;
  IF SEX='M' THEN DO;
    N18a=12;
    XSEXA=1;
  END;
  ELSE DO;
    N18a=13;
    XSEXA=2;
  END;
END;
END;

/* Note 18b - gender vs mammogram/paps/pregnancy */
/* REDEFINE FMALE TO LOOK ONLY AT MAMMOGRAM, PAP SMEAR ENTRIES and PREGNANCY */

ARRAY NOTE18b H06059 H06060 H06061 H06063 H06064 H06065
      ;

cntfemale=0;
DO OVER NOTE18b;          /* mammogram/pap smear/PREGNANT*/
  IF NOTE18b NE . THEN cntfemale=cntfemale+1;
END;

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

IF XSEXA=1 THEN DO;      /* male */
  IF FMALE=0 THEN DO;
    N18b=1;
    DO OVER NOTE18b;
      NOTE18b=.N;
    END;
  END; /* valid skip */
  ELSE IF FMALE=1 THEN DO;
    N18b=2;
    DO OVER NOTE18b;
      IF NOTE18b=. THEN NOTE18b = .N;
      ELSE NOTE18b=.C;
    END;
  END; /* inconsistent response */
END;
ELSE IF XSEXA=2 THEN N18b=3; /* female */
ELSE IF XSEXA=. THEN DO; /* missing sex */
  N18b=4;
  DO OVER NOTE18b;
    NOTE18b=.;
  END;
END;

DROP FMALE CNTFEMALE;

/* Note 19 - breast exam for female 40 or over */

IF XSEXA=1 THEN DO; /* male */
  IF (H06060=.C OR H06060=.N) AND (H06061=.C OR H06061=.N)
  THEN N19 = 1;
END;
ELSE IF XSEXA=2 THEN DO;
  IF H06060=2 THEN N19=2;          /* female 40 or over */
  ELSE IF H06060=1 THEN DO; /* female < 40 */
    IF H06061 NE . THEN H06061=.C;
    ELSE H06061=.N;
    N19=3;
  END;
  ELSE IF H06060=. THEN DO;

```

```

IF H06061 NE . THEN DO;
  H06060=2;
  N19=4;
END;
ELSE IF H06061=. THEN DO;
  IF AGE<40 THEN DO;
    H06060 = 1;
    H06061=.N;
    N19=5;
  END;
  ELSE IF AGE >= 40 THEN DO;
    H06060=1;
    H06061=.N;
    N19=6;
  END;
  ELSE IF AGE=. THEN N19=7;
END;
END;
END;
ELSE IF XSEXA=. THEN N19=8;

```

/* Note 20 - gender vs Pregnancy */

```

IF XSEXA=1 THEN N20=1;          /* male */
ELSE IF XSEXA=2 THEN DO;      /* female */
  IF H06063=1 THEN DO;        /* pregnant */
    IF H06064=1 THEN DO;
      N20=2;
      IF H06065=. THEN H06065 = .N;
      ELSE H06065=.C;
    END;
    ELSE IF H06064=2 AND H06065 IN (2) THEN DO;
      N20=3;
      H06065=. ;
    END;
    ELSE IF H06064=2 AND H06065 IN (4,3,1,..) THEN DO;
      N20=4;
    END;
    ELSE IF H06064 IN (3,..) THEN N20=5;
  END;
  ELSE IF H06063=2 THEN DO;
    IF H06064=. THEN H06064 = .N;
    ELSE H06064=.C;
    N20=6;
  END;
  ELSE IF H06063=3 THEN DO;
    N20=7;
    IF H06064=. THEN H06064 = .N;
    ELSE H06064=.C;
    IF H06065=. THEN H06065=.N;
    ELSE H06065=.C;
  END;
  ELSE IF H06063 IN (..) THEN DO;
    IF H06064=1 THEN DO;
      N20=8;
      H06063=1;
      IF H06065=. THEN H06065 = .N;
      ELSE H06065=.C;
    END;
    ELSE IF H06064=2 AND H06065 IN (2) THEN DO;
      N20=9;
      H06063=1;
      H06065=. ;
    END;
    ELSE IF H06064=2 AND H06065 IN (4,3,1) THEN DO;
      H06063=1;
      N20=10;
    END;
  ELSE IF H06064=3 THEN DO;
    H06063=1;
  END;

```

```

        N20=11;
    END;
    ELSE IF H06064=. THEN DO;
        N20=12;
    END;
END;
END;
ELSE IF XSEXA=. AND H06063 IN (.) THEN N20=13;

DROP AGE SEX;

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 FORMAT;
    VALUE GRID
        0='0'
        1-9999='>=1' ;
    VALUE $GRIDB
        1-5 = '1-5' ;
    VALUE $AGE
        018-039='<40'
        040-120='>=40' ;
    VALUE SCALE
        0-10='0-10' ;
    VALUE MARK
        1-6='Marked' ;
    VALUE MARKB
        2-7='Marked' ;

    VALUE MARKC
        1='1'
        2-HIGH='>1' ;

RUN;

proc contents data=out.cschm06q;
run;

```

**F.2.F Q3FY2006\PROGRAMS\CODINGScheme\CSCHM06Q.FMT - INCLUDE FILE FOR CODING SCHEME FOR QUARTER 3
FY2006.**

/* Formats for original answers to survey questions,
after variables have been recoded */

```

FORMAT H06001    H06001_O YN.
        H06003    H06003_O MEDA.
        H06004    H06004_O MEDB.
        H06005    H06005_O MEDSUPP.
        H06006    H06006_O HPLAN1_.
        H06007    H06007_O HPTIME.

H06008 H06008_O  H06010 H06010_O  H06012 H06012_O
H06014 H06014_O  H06016 H06016_O  H06018 H06018_O
H06021 H06021_O  H06026 H06026_O  H06028 H06028_O
        YN.

H06009    H06009_O RATE1_.
H06011    H06011_O PROB1_.
H06013    H06013_O PROB2_.
H06015    H06015_O RATE2_.
H06017    H06017_O OFTEN1_.
H06019    H06019_O OFTEN2_.
H06020    H06020_O TIME1_.
H06022    H06022_O OFTEN3_.
H06023    H06023_O TIME2_.
H06024    H06024_O OFTEN4_.
H06025    H06025_O OFTEN4_.

H06027    H06027_O PROB3_.
H06029    H06029_O PROB3a.

H06030-H06036  H06030_O--H06036_O OFTEN5_.

H06037    H06037_O RATE3_.

H06038    H06038_O PLACE.

H06039    H06039_O YNDNK.

H06040--H06041 H06040_O--H06041_O OFTEN6_.

H06042 H06042_O  H06044 H06044_O
H06046 H06046_O  H06060 H06060_O
H06067 H06067_O
        YN.

H06043    H06043_O PROB8_.
H06045    H06045_O PROB9_.
H06047    H06047_O PROB10_.
H06048    H06048_O RATE4_.

H06049    H06049_O TIME5_.
H06050    H06050_O YNBP_.
H06051    H06051_O TIME7_.
H06052    H06052_O YNDNK.
H06053    H06053_O TIME8_.
H06054    H06054_O TIME9_.
H06055    H06055_O OFTEN7_.
H06056    H06056_O OFTEN7_.
H06057    H06057_O OFTEN7_.
H06058    H06058_O SEX.
H06059    H06059_O TIME11_.
H06061    H06061_O TIME12_.
H06063    H06063_O YNPREG.
H06064    H06064_O PREG1_.
H06065    H06065_O PREG2_.
H06066    H06066_O HEALTH.

H06068F H06068FO
H06068I H06068IO

```

H06069 H06069_O
TIME14_.

SREDA SREDA_O EDUC.
H06070 H06070_O HISP.
SRAGE SRAGE_O AGEGRP.

S06B01 S06B01_O MNTHLTH.
S06B02 S06B02_O YN.
S06B03 S06B03_O PROB1_.
S06B04 S06B04_O RATE4_.

S06V01 S06V01_O HLTHCARE.
S06V02 S06V02_O PROB4_.
S06V05 S06V05_O YNnet.
S06V06 S06V06_O PROB6_.
S06V07 S06V07_O PROB7_.
S06V08 S06V08_O YNdnk.
S06V09 S06V09_O YNtri.
S06V10 S06V10_O PROB1_.
S06V13 S06V13_O PROB16_.
S06V15 S06V15_O YNdnk.
S06V16 S06V16_O nncspl.
S06V17 S06V17_O PROB1_.

MISS_1 MISS_4-MISS_9 MISS_TOT 4.
e1 e2 e3 e4 e5 e6 e7 e8 e9 e10 e11 e12 e13 e14 e15 e16 e17
e18 e19
\$e_.;

LABEL H06001_O='Are you the person listed on envelope'
H06001 ='Are you the person listed on envelope'
H06002AO='Health plan(s) covered: TRICARE Prime'
H06002A ='Health plan(s) covered: TRICARE Prime'
H06002CO='Health plan(s) covered: TRICARE Ext/Stnd'
H06002C ='Health plan(s) covered: TRICARE Ext/Stnd'
H06002NO='Health plan(s) covered: TRICARE Plus'
H06002N ='Health plan(s) covered: TRICARE Plus'
H06002OO='Health plan(s) covered: TRICARE For Life'
H06002O ='Health plan(s) covered: TRICARE For Life'
H06002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
H06002P ='Health plan(s) covered: TRICARE Supplmntl Ins'
H06002FO='Health plan(s) covered: MEDICARE'
H06002F ='Health plan(s) covered: MEDICARE'
H06002GO='Health plan(s) covered: FEHBP'
H06002G ='Health plan(s) covered: FEHBP'
H06002HO='Health plan(s) covered: Medicaid'
H06002H ='Health plan(s) covered: Medicaid'
H06002IO='Health plan(s) covered: Civilian HMO'
H06002I ='Health plan(s) covered: Civilian HMO'
H06002JO='Health plan(s) covered: Other civilian'
H06002J ='Health plan(s) covered: Other civilian'
H06002KO='Health plan(s) covered: USFHP'
H06002K ='Health plan(s) covered: USFHP'
H06002MO='Health plan(s) covered: Veterans'
H06002M ='Health plan(s) covered: Veterans'
H06002LO='Health plan(s) covered: Not sure'
H06002L ='Health plan(s) covered: Not sure'
H06003 ='Currently Covered Medicare Part A'
H06003_O='Currently Covered Medicare Part A'
H06004 ='Currently Covered Medicare Part B'
H06004_O='Currently Covered Medicare Part B'
H06005 ='Currently Covered Medicare Supplemental'
H06005_O='Currently Covered Medicare Supplemental'
H06006_O='Which health plan did you use most'
H06006 ='Which health plan did you use most'
H06007_O='Yrs in a row with health plan'
H06007 ='Yrs in a row with health plan'
H06008_O='Have one person think of as personal Dr'
H06008 ='Have one person think of as personal Dr'
H06009_O='Rating of your personal Dr or nurs'

H06009 = 'Rating of your personal Dr or nurs'
H06010_O= 'Same prs Dr/nurs before joined hlth pln'
H06010 = 'Same prs Dr/nurs before joined hlth pln'
H06011_O= 'Health plan: prblm to get Dr happy with'
H06011 = 'Health plan: prblm to get Dr happy with'
H06012_O= 'In lst yr:you/Dr think you need spclst'
H06012 = 'In lst yr:you/Dr think you need spclst'
H06013_O= 'In lst yr:how much prblm see spclst'
H06013 = 'In lst yr:how much prblm see spclst'
H06014_O= 'In lst yr:did you see a specialist'
H06014 = 'In lst yr:did you see a specialist'
H06015_O= 'Rating of specialist seen in lst yr'
H06015 = 'Rating of specialist seen in lst yr'
H06016_O= 'In lst yr:call Dr for help/advice'
H06016 = 'In lst yr:call Dr for help/advice'
H06017_O= 'In lst yr:when call how often get hlp nd'
H06017 = 'In lst yr:when call how often get hlp nd'
H06018_O= 'In lst yr:ill/injry/cond care right away'
H06018 = 'In lst yr:ill/injry/cond care right away'
H06019_O= 'In lst yr:get urgnt care as soon as wntd'
H06019 = 'In lst yr:get urgnt care as soon as wntd'
H06020_O= 'In lst yr:wait btwn try get care,see prv'
H06020 = 'In lst yr:wait btwn try get care,see prv'
H06021_O= 'In lst yr:make appts non-urgnt hlth care'
H06021 = 'In lst yr:make appts non-urgnt hlth care'
H06022_O= 'In lst yr:non-urg hlth cre appt whn wntd'
H06022 = 'In lst yr:non-urg hlth cre appt whn wntd'
H06023_O= 'In lst yr:days btwn appt & see prvder'
H06023 = 'In lst yr:days btwn appt & see prvder'
H06024_O= 'In lst yr:goto emrgncy rm for own care'
H06024 = 'In lst yr:goto emrgncy rm for own care'
H06025_O= 'In lst yr:goto Dr office/clinic for care'
H06025 = 'In lst yr:goto Dr office/clinic for care'
H06026_O= 'In lst yr:think need care/tests/trtmnt'
H06026 = 'In lst yr:think need care/tests/trtmnt'
H06027_O= 'In lst yr:prblm to get care thght ncssry'
H06027 = 'In lst yr:prblm to get care thght ncssry'
H06028_O= 'In lst yr:need apprvl care/tests/trtmnt'
H06028 = 'In lst yr:need apprvl care/tests/trtmnt'
H06029_O= 'In lst yr:prblm w/delays wait for apprv'
H06029 = 'In lst yr:prblm w/delays wait for apprv'
H06030_O= 'In lst yr:wait within 15 min appt see Dr'
H06030 = 'In lst yr:wait within 15 min appt see Dr'
H06031_O= 'In lst yr:how oftn treat w/crtsy/respct'
H06031 = 'In lst yr:how oftn treat w/crtsy/respct'
H06032_O= 'In lst yr:how oftn staff helpful'
H06032 = 'In lst yr:how oftn staff helpful'
H06033_O= 'In lst yr:how oftn Drs listen to you'
H06033 = 'In lst yr:how oftn Drs listen to you'
H06034_O= 'In lst yr:how oftn Drs explain things'
H06034 = 'In lst yr:how oftn Drs explain things'
H06035_O= 'In lst yr:how oftn Drs show respect'
H06035 = 'In lst yr:how oftn Drs show respect'
H06036_O= 'In lst yr:how oftn Drs spend enough time'
H06036 = 'In lst yr:how oftn Drs spend enough time'
H06037_O= 'Rating of all health care in lst yr'
H06037 = 'Rating of all health care in lst yr'
H06038_O= 'In lst yr:fclty use most for Health care'
H06038 = 'In lst yr:fclty use most for Health care'
H06039_O= 'In lst yr:send in any claims'
H06039 = 'In lst yr:send in any claims'
H06040_O= 'In lst yr:hlth pln handle in rsnble time'
H06040 = 'In lst yr:hlth pln handle in rsnble time'
H06041_O= 'In lst yr:how oftn handle correctly'
H06041 = 'In lst yr:how oftn handle correctly'
H06042_O= 'In lst yr:info in written materials'
H06042 = 'In lst yr:info in written materials'
H06043_O= 'In lst yr:prblm to find/undrstnd mtrls'
H06043 = 'In lst yr:prblm to find/undrstnd mtrls'
H06044_O= 'In lst yr:hlth plan customer srvc help'
H06044 = 'In lst yr:hlth plan customer srvc help'
H06045_O= 'In lst yr:prblm get help from cstmr srvc'
H06045 = 'In lst yr:prblm get help from cstmr srvc'

H06046_O='In lst yr:fill out paperwork'
H06046 = 'In lst yr:fill out paperwork'
H06047_O='In lst yr:prblms with paperwork'
H06047 = 'In lst yr:prblms with paperwork'
H06048 = 'Rating of all experience with hlth plan'
H06048_O='Rating of all experience with hlth plan'
H06049_O='Blood pressure: when lst reading'
H06049 = 'Blood pressure: when lst reading'
H06050_O='Blood pressure: know if too high or not'
H06050 = 'Blood pressure: know if too high or not'
H06051_O='When did you lst have a flu shot'
H06051 = 'When did you lst have a flu shot'
H06052 = 'Smoked at least 100 cigarettes in life'
H06052_O='Smoked at least 100 cigarettes in life'
H06053 = 'Smoke everyday, some days or not at all'
H06053_O='Smoke everyday, some days or not at all'
H06054_O='How long since you quit smoking'
H06054 = 'How long since you quit smoking'
H06055_O='Lst yr: # visits advised to quit smoking'
H06055 = 'Lst yr: # visits advised to quit smoking'
H06056 = '# visits recom medic assist quit smoking'
H06056_O='# visits recom medic assist quit smoking'
H06057 = '# vist discu meth/strag asst quit smokng'
H06057_O='# vist discu meth/strag asst quit smokng'
H06058_O='Are you male or female'
H06058 = 'Are you male or female'
H06059_O='Lst have a Pap smear test'
H06059 = 'Lst have a Pap smear test'
H06060_O='Are you under age 40'
H06060 = 'Are you under age 40'
H06061_O='Lst time: breasts checked mammography'
H06061 = 'Lst time: breasts checked mammography'
H06063_O='Been pregnant in lst yr or pregnant now'
H06063 = 'Been pregnant in lst yr or pregnant now'
H06064_O='In what trimester is your pregnancy'
H06064 = 'In what trimester is your pregnancy'
H06065_O='Trimester first received prenatal care'
H06065 = 'Trimester first received prenatal care'
H06066_O='In gnrl, how would you rate ovrall hlth'
H06066 = 'In gnrl, how would you rate ovrall hlth'
H06067_O='Impairment/Hlth prblm limit activities'
H06067 = 'Impairment/Hlth prblm limit activities'

H06068FO='Height without shoes (feet)'
H06068F = 'Height without shoes (feet)'
H06068IO='Height without shoes (inches)'
H06068I = 'Height without shoes (inches)'
H06069_O='Weight without shoes'
H06069 = 'Weight without shoes'

SREDA_O = 'Highest grade completed'
SREDA = 'Highest grade completed'
H06070_O='Are you Spanish/Hispanic/Latino'
H06070 = 'Are you Spanish/Hispanic/Latino'
H06070AO='Not Spanish/Hispanic/Latino'
H06070A = 'Not Spanish/Hispanic/Latino'
H06070BO='Mexican, Mexican American, Chicano'
H06070B = 'Mexican, Mexican American, Chicano'
H06070CO='Puerto Rican'
H06070C = 'Puerto Rican'
H06070DO='Cuban'
H06070D = 'Cuban'
H06070EO='Other Spanish, Hispanic, or Latino'
H06070E = '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'

S06B01_O = 'Self rate of overall mental/emotional health'
S06B01 = 'Self rate of overall mental/emotional health'
S06B02_O = 'Lst yr: Needed treatmnt/cnslng-prsnl prob'
S06B02 = 'Lst yr: Needed treatmnt/cnslng-prsnl prob'
S06B03_O = 'Lst yr: Prblm gttng needed treatmnt/cnslng'
S06B03 = 'Lst yr: Prblm gttng needed treatmnt/cnslng'
S06B04_O = 'Lst yr: Rate of treatmnt/cnslng received'
S06B04 = 'Lst yr: Rate of treatmnt/cnslng received'

S06V01 = 'In lst yr:hlthcr frm TRICARE cvln ntwrk'
S06V01_O = 'In lst yr:hlthcr frm TRICARE cvln ntwrk'
S06V02 = 'In lst yr:prblm get wanted care frm TCN'
S06V02_O = 'In lst yr:prblm get wanted care frm TCN'
S06V05 = 'In lst yr:Learn wntd Physician left TCN'
S06V05_O = 'In lst yr:Learn wntd Physician left TCN'
S06V06 = 'In lst yr:prblm fndng cnvniient TCN dr'
S06V06_O = 'In lst yr:prblm fndng cnvniient TCN dr'
S06V07 = 'In lst yr:prblm fndng spclst in cvln ntwrk'
S06V07_O = 'In lst yr:prblm fndng spclst in cvln ntwrk'
S06V08 = 'In lst yr:made appt with dr not in TCN'
S06V08_O = 'In lst yr:made appt with dr not in TCN'
S06V09 = 'In lst yr:dr not seeing old/new TRICARE ptnts'
S06V09_O = 'In lst yr:dr not seeing old/new TRICARE ptnts'
S06V10 = 'In lst yr:prblm finding dr acctng TRICARE'
S06V10_O = 'In lst yr:prblm finding dr acctng TRICARE'

S06V11A = 'Prblm fndng civ ntwrk prsnl Dr:Travel dist'
S06V11AO = 'Prblm fndng civ ntwrk prsnl Dr:Travel dist'
S06V11B = 'Prblm fndng civ ntwrk prsnl Dr:Communicating /w Dr'
S06V11BO = 'Prblm fndng civ ntwrk prsnl Dr:Communicating /w Dr'
S06V11C = 'Prblm fndng civ ntwrk prsnl Dr:No new patients'
S06V11CO = 'Prblm fndng civ ntwrk prsnl Dr:No new patients'
S06V11D = 'Prblm fndng civ ntwrk prsnl Dr:Speciality unavailable'
S06V11DO = 'Prblm fndng civ ntwrk prsnl Dr:Speciality unavailable'
S06V11E = 'Prblm fndng civ ntwrk prsnl Dr:Don't like Drs"
S06V11EO = 'Prblm fndng civ ntwrk prsnl Dr:Don't like Drs"
S06V11F = 'Prblm fndng civ ntwrk prsnl Dr:Appt wait too long'
S06V11FO = 'Prblm fndng civ ntwrk prsnl Dr:Appt wait too long'
S06V11G = 'Prblm fndng civ ntwrk prsnl Dr:Dr info unavailable'
S06V11GO = 'Prblm fndng civ ntwrk prsnl Dr:Dr info unavailable'
S06V11H = 'Prblm fndng civ ntwrk prsnl Dr:Other'
S06V11HO = 'Prblm fndng civ ntwrk prsnl Dr:Other'

S06V12A = 'Prblm fndng civ ntwrk spclst:Travel dist'
S06V12AO = 'Prblm fndng civ ntwrk spclst:Travel dist'
S06V12B = 'Prblm fndng civ ntwrk spclst:Communicating /w Dr'
S06V12BO = 'Prblm fndng civ ntwrk spclst:Communicating /w Dr'
S06V12C = 'Prblm fndng civ ntwrk spclst:No new patients'
S06V12CO = 'Prblm fndng civ ntwrk spclst:No new patients'
S06V12D = 'Prblm fndng civ ntwrk spclst:Don't like Drs"
S06V12DO = 'Prblm fndng civ ntwrk spclst:Don't like Drs"
S06V12E = 'Prblm fndng civ ntwrk spclst:Appt wait too long'
S06V12EO = 'Prblm fndng civ ntwrk spclst:Appt wait too long'
S06V12F = 'Prblm fndng civ ntwrk spclst:Dr info unavailable'
S06V12FO = 'Prblm fndng civ ntwrk spclst:Dr info unavailable'
S06V12G = 'Prblm fndng civ ntwrk spclst:Other'
S06V12GO = 'Prblm fndng civ ntwrk spclst:Other'

S06V13 = 'Prblm fndng civ prsnl dr/nrs accepts TRICARE'
S06V13_O = 'Prblm fndng civ prsnl dr/nrs accepts TRICARE'

S06V14A = 'Prblm fndng prsnl dr accepts TRICARE:Travel dist'
S06V14AO = 'Prblm fndng prsnl dr accepts TRICARE:Travel dist'
S06V14B = 'Prblm fndng prsnl dr accepts TRICARE:Communicating /w Dr'
S06V14BO = 'Prblm fndng prsnl dr accepts TRICARE:Communicating /w Dr'
S06V14C = 'Prblm fndng prsnl dr accepts TRICARE:Not accept TRICARE fees'
S06V14CO = 'Prblm fndng prsnl dr accepts TRICARE:Not accept TRICARE fees'
S06V14D = 'Prblm fndng prsnl dr accepts TRICARE:Speciality unavailable'
S06V14DO = 'Prblm fndng prsnl dr accepts TRICARE:Speciality unavailable'

S06V14E = "Prblm fndng prsnl dr accepts TRICARE:Don't like Drs"
S06V14EO= "Prblm fndng prsnl dr accepts TRICARE:Don't like Drs"
S06V14F = 'Prblm fndng prsnl dr accepts TRICARE:Appt wait too long'
S06V14FO= 'Prblm fndng prsnl dr accepts TRICARE:Appt wait too long'
S06V14G = 'Prblm fndng prsnl dr accepts TRICARE:Dr info unavailable'
S06V14GO= 'Prblm fndng prsnl dr accepts TRICARE:Dr info unavailable'
S06V14H = 'Prblm fndng prsnl dr accepts TRICARE:Other'
S06V14HO= 'Prblm fndng prsnl dr accepts TRICARE:Other'

S06V15 = 'Made appt /w NON-TRICARE civ spclst'
S06V15_O= 'Made appt /w NON-TRICARE civ spclst'
S06V16 = 'Speciality of non-network civ spclst'
S06V16_O= 'Speciality of non-network civ spclst'
S06V17 = 'Prblm making appt /w nn civ spclst'
S06V17_O= 'Prblm making appt /w nn civ spclst'

S06V18A = 'Prblm fndng nn civ spclst:Travel dist'
S06V18AO= 'Prblm fndng nn civ spclst:Travel dist'
S06V18B = 'Prblm fndng nn civ spclst:Communicating /w Dr'
S06V18BO= 'Prblm fndng nn civ spclst:Communicating /w Dr'
S06V18C = 'Prblm fndng nn civ spclst:Not accept TRICARE fees'
S06V18CO= 'Prblm fndng nn civ spclst:Not accept TRICARE fees'
S06V18D = "Prblm fndng nn civ spclst:Don't like Drs"
S06V18DO= "Prblm fndng nn civ spclst:Don't like Drs"
S06V18E = 'Prblm fndng nn civ spclst:Appt wait too long'
S06V18EO= 'Prblm fndng nn civ spclst:Appt wait too long'
S06V18F = 'Prblm fndng nn civ spclst:Dr info unavailable'
S06V18FO= 'Prblm fndng nn civ spclst:Dr info unavailable'
S06V18G = 'Prblm fndng nn civ spclst:Other'
S06V18GO= 'Prblm fndng nn civ spclst:Other'

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"
N9 = "Coding Scheme Note 9"
N10= "Coding Scheme Note 10"
N10AA= "Coding Scheme Note 10AA"
N10A= "Coding Scheme Note 10A"
N10B= "Coding Scheme Note 10B"
N10C= "Coding Scheme Note 10C"
N10D= "Coding Scheme Note 10D"
N10E= "Coding Scheme Note 10E"
N10F= "Coding Scheme Note 10F"
N10G= "Coding Scheme Note 10G"
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"
N18A= "Coding Scheme Note 18A"
N18B= "Coding Scheme Note 18B"
N19 = "Coding Scheme Note 19"
N20 = "Coding Scheme Note 20"

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.G Q4FY2006\PROGRAMS\CODINGScheme\CSCHM06Q.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES FOR QUARTER 4 FY2006.

```
*****;
* Program: Cschm06q.sas
* Written: 06/04/2001
* Author: C. Rankin
*
* Input: MERGESYN.SD2 - Merged MPR Sampling, DEERS, and Synovate Response Data
* Output: CSCHM06Q.SD2 - 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
*           5/27/2003 - Updated Variable names for Q2 2003
*           12/05/2003 - Updated Variable names for Q4 2003
*           3/25/2004 - Updated Variable names for Q1 2004
*           6/3/2004 - Updated Variable names for Q2 2004
*           8/23/2004 - Updated Variable names for Q3 2004
*           1/13/2005 - Updated Variable names for Q4 2004
*           4/13/2005 - Updated Variable names for Q1 2005
*           7/20/2005 - Updated Variable names for Q2 2005
*           10/14/2005 - Updated Variable names for Q3 2005
*           12/22/2005 - Updated Variable names for Q4 2005
*           3/20/2006 - Updated Variable names for Q2 FY 2006
* Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
*         Response Data, check for consistency in responses and skip
*         patterns
* Include
* files: Cschm06q.fmt
*****;
```

```
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
```

```
LIBNAME LIBRARY v612 "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN v612 "..\..\DATA\AFINAL";
LIBNAME OUT v612 "..\..\DATA\AFINAL";
```

```
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM06Q;
%LET PERIOD=July, 2005 to June, 2006;
```

```
/* Variable names in survey -- become recoded variables */
```

```
%Let varlist1 =
```

- | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| H06001 | H06002A | H06002C | H06002F | H06002G | H06002H | H06002I | H06002J | H06002K |
| H06002L | H06002M | H06002N | H06002O | H06002P | H06002Q | H06003 | H06004 | H06005 |
| H06006 | H06007 | H06008 | H06009 | H06010 | H06011 | H06012 | H06013 | H06014 |
| H06015 | H06016 | H06017 | H06018 | H06019 | H06020 | H06021 | H06022 | H06023 |
| H06024 | H06025 | H06026 | H06027 | H06028 | H06029 | H06030 | H06031 | H06032 |
| H06033 | H06034 | H06035 | H06036 | H06037 | H06038 | | | |
| | | | | | | | | |
| S06Y01 | S06Y17 | S06Y22 | S06Y23 | S06Y24 | S06Y31 | S06Y33 | S06Y35 | |
| S06Y06A | S06Y06B | S06Y06C | S06Y06D | S06Y06E | S06Y06F | S06Y06G | S06Y06H | S06Y06I |
| S06Y06J | S06Y06K | S06Y06L | S06Y06M | S06Y06N | S06Y06O | S06Y06P | S06Y06Q | S06Y06R |
| S06Y18A | S06Y18B | S06Y18C | S06Y18D | S06Y19A | S06Y19B | S06Y19C | S06Y19D | S06Y19E |
| S06Y19F | S06Y19I | S06Y19J | | | | | | |
| S06Y26A | S06Y26B | S06Y26C | S06Y26D | S06Y27A | S06Y27B | S06Y27C | S06Y27D | |
| S06Y28A | S06Y28B | S06Y28C | S06Y29A | S06Y29B | S06Y29C | S06Y30A | S06Y30B | S06Y30C |
| S06Y30D | S06Y30E | S06Y30F | S06Y30G | S06Y30H | S06Y30I | S06Y30J | S06Y30K | S06Y30L |
| S06Y32A | S06Y32B | S06Y32C | | | | | | |
| S06Y34A | S06Y34B | S06Y34C | S06Y34D | S06Y34E | S06Y34F | S06Y34G | S06Y34H | S06Y34I |
| S06Y34J | S06Y34K | S06Y34L | S06Y34M | S06Y34N | S06Y34O | S06Y34P | S06Y34Q | S06Y34R |
| S06Y36A | S06Y36B | S06Y36C | S06Y36D | S06Y36E | S06Y36F | S06Y36G | S06Y36H | S06Y36I |

S06Y37A S06Y37B S06Y37C S06Y37D S06Y37E S06Y37F S06Y37G S06Y37H S06Y37I S06Y37J
S06Y37K S06Y37L S06Y37M S06Y37N

H06039 H06040 H06041 H06042 H06043 H06044 H06045 H06046 H06047
H06048 H06049 H06050
H06051 H06052 H06053 H06054 H06055 H06056 H06057 H06058 H06059
H06060 H06061 H06063 H06064 H06065 H06066 H06067

H06068F H06068I H06069

H06070 H06070A H06070B H06070C H06070D H06070E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE SREDA
;

/* _O variables are the original values from the survey response */

%Let varlist2 =

H06001_O H06002AO H06002CO H06002FO H06002GO H06002HO H06002IO H06002JO H06002KO
H06002LO H06002MO H06002NO H06002OO H06002PO H06002QO H06003_O H06004_O H06005_O
H06006_O H06007_O H06008_O H06009_O H06010_O H06011_O H06012_O H06013_O H06014_O
H06015_O H06016_O H06017_O H06018_O H06019_O H06020_O H06021_O H06022_O H06023_O
H06024_O H06025_O H06026_O H06027_O H06028_O H06029_O H06030_O H06031_O H06032_O
H06033_O H06034_O H06035_O H06036_O H06037_O H06038_O

S06Y01_O S06Y17_O S06Y22_O S06Y23_O S06Y24_O S06Y31_O S06Y33_O S06Y35_O
S06Y06AO S06Y06BO S06Y06CO S06Y06DO S06Y06EO S06Y06FO S06Y06GO S06Y06HO S06Y06IO
S06Y06JO S06Y18AO S06Y18BO S06Y18CO S06Y18DO S06Y19AO S06Y19BO S06Y19CO S06Y19DO
S06Y19EO S06Y19FO S06Y19IO S06Y19JO S06Y26AO S06Y26BO S06Y26CO S06Y26DO S06Y27AO
S06Y27BO S06Y27CO S06Y27DO S06Y28AO S06Y28BO S06Y28CO S06Y29AO S06Y29BO S06Y29CO
S06Y30AO S06Y30BO S06Y30CO S06Y30DO S06Y32AO S06Y32BO S06Y32CO S06Y34AO S06Y34BO
S06Y34CO S06Y34DO S06Y34EO S06Y34FO S06Y34GO S06Y34HO S06Y34IO S06Y34JO S06Y36AO
S06Y36BO S06Y36CO S06Y36DO S06Y36EO S06Y36FO S06Y36GO S06Y36HO S06Y36IO S06Y37AO
S06Y37BO S06Y37CO S06Y37DO S06Y37EO S06Y37FO S06Y37GO S06Y37HO S06Y37IO S06Y37JO
S06Y37KO S06Y37LO S06Y37MO S06Y37NO

H06039_O H06040_O H06041_O H06042_O H06043_O H06044_O H06045_O H06046_O H06047_O
H06048_O H06049_O H06050_O
H06051_O H06052_O H06053_O H06054_O H06055_O H06056_O H06057_O H06058_O H06059_O
H06060_O H06061_O H06063_O H06064_O H06065_O H06066_O H06067_O

H06068FO H06068IO H06069_O

H06070_O H06070AO H06070BO H06070CO H06070DO H06070EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O SREDA_O
;

TITLE "DoD 2006 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";

DATA MERGESYN;

SET IN.MERGESYN(RENAME=(H06H69 = H06069CH
H06H68F = H06068F
H06H68FN= H06068FN
H06H68I = H06068I
H06H68IN= H06068IN
H06H69N = H06069N
));

*****;
* 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 H06068F LT 1      THEN H06068F=H06068FN;
IF H06068I IN (-9,..) THEN H06068I=H06068IN;

H06069= COMPRESS(H06069CH,' ')*1;

DROP H06069CH;

IF H06069=0  AND H06069N=-9      THEN H06069 =H06069N;
IF H06069<100 AND H06069N NE -9  THEN H06069 =H06069N;

*** Correct odd height and weights Per Eric Schone;

IF H06068F < 2 OR
   H06068F > 8
THEN H06068F= -7;

IF 0 <= H06069 < 40 OR
   H06069 > 500
THEN H06069= -7;

/* JMA
****Multiple responses were given to this question so H06070 is being created
****from the multiple responses.;
*/

IF H06070B=1 THEN H06070=2;
ELSE IF H06070E=1 THEN H06070=5;
ELSE IF H06070C=1 THEN H06070=3;
ELSE IF H06070D=1 THEN H06070=4;
ELSE IF H06070A=1 THEN H06070=1;

/** JMA 19th Sep 2006 create
    S06Y26A S06Y26B S06Y26C S06Y26D
    from
    S06Y26A1-S06Y26A5, S06Y26B1-S06Y26B5
    S06Y26C1-S06Y26C5, S06Y26D1-S06Y26D5
**/

ARRAY NOTE26AD1 S06Y26A1 S06Y26B1 S06Y26C1 S06Y26D1;
ARRAY NOTE26AD2 S06Y26A2 S06Y26B2 S06Y26C2 S06Y26D2;
ARRAY NOTE26AD3 S06Y26A3 S06Y26B3 S06Y26C3 S06Y26D3;
ARRAY NOTE26AD4 S06Y26A4 S06Y26B4 S06Y26C4 S06Y26D4;
ARRAY NOTE26AD5 S06Y26A5 S06Y26B5 S06Y26C5 S06Y26D5;

ARRAY S06Y26 S06Y26A S06Y26B S06Y26C S06Y26D;

DO OVER NOTE26AD1;
  IF NOTE26AD3 EQ 1 THEN DO;
    S06Y26=3;
  END;
  ELSE IF NOTE26AD1=1 AND NOTE26AD2=1 THEN DO;
    S06Y26=3;
  END;
  ELSE IF NOTE26AD1=1 THEN DO;
    S06Y26=1;
  END;
  ELSE IF NOTE26AD2=1 THEN DO;
    S06Y26=2;
  END;
  ELSE IF NOTE26AD4=1 THEN DO;
    S06Y26=4;
  END;
  ELSE IF NOTE26AD5=1 THEN DO;
    S06Y26=-5;
  END;

```

```

END;
END;

/** JMA 19th Sep 2006
create
  S06Y27A S06Y27B S06Y27C S06Y27D
from
  S06Y27A1-S06Y27A5, S06Y27B1-S06Y27B5
  S06Y27C1-S06Y27C5, S06Y27D1-S06Y27D5
**/

ARRAY NOTE27AD1 S06Y27A1 S06Y27B1 S06Y27C1 S06Y27D1;
ARRAY NOTE27AD2 S06Y27A2 S06Y27B2 S06Y27C2 S06Y27D2;
ARRAY NOTE27AD3 S06Y27A3 S06Y27B3 S06Y27C3 S06Y27D3;
ARRAY NOTE27AD4 S06Y27A4 S06Y27B4 S06Y27C4 S06Y27D4;
ARRAY NOTE27AD5 S06Y27A5 S06Y27B5 S06Y27C5 S06Y27D5;

ARRAY S06Y27 S06Y27A S06Y27B S06Y27C S06Y27D;

DO OVER NOTE27AD1;
  IF NOTE27AD3 EQ 1 THEN DO;
    S06Y27=3;
  END;
  ELSE IF NOTE27AD1=1 AND NOTE27AD2=1 THEN DO;
    S06Y27=3;
  END;
  ELSE IF NOTE27AD1=1 THEN DO;
    S06Y27=1;
  END;
  ELSE IF NOTE27AD2=1 THEN DO;
    S06Y27=2;
  END;
  ELSE IF NOTE27AD4=1 THEN DO;
    S06Y27=4;
  END;
  ELSE IF NOTE27AD5=1 THEN DO;
    S06Y27=-6;
  END;
END;

RUN;

DATA OUT.CSCHM06Q;

  LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
  INFORMAT &VARLIST2. 4.;
  %INCLUDE "CSCHM06Q.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 2006 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(*)
H06002A H06002C H06002F H06002G H06002H H06002I H06002J H06002K
H06002L H06002M H06002N H06002O H06002P H06002Q

S06Y06A S06Y06B S06Y06C S06Y06D S06Y06E S06Y06F S06Y06G S06Y06H
S06Y06I S06Y06J S06Y18A S06Y18B S06Y18C S06Y18D S06Y19A S06Y19B
S06Y19C S06Y19D S06Y19E S06Y19F S06Y19I S06Y19J S06Y34A S06Y34B
S06Y34C S06Y34D S06Y34E S06Y34F S06Y34G S06Y34H S06Y34I S06Y34J
S06Y36A S06Y36B S06Y36C S06Y36D S06Y36E S06Y36F S06Y36G S06Y36H
S06Y36I S06Y37A S06Y37B S06Y37C S06Y37D S06Y37E S06Y37F S06Y37G
S06Y37H S06Y37I S06Y37J S06Y37K S06Y37L S06Y37M S06Y37N

H06070A H06070B H06070C H06070D H06070E

SRRACEA SRRACEB SRRACEC SRRACED SRRACEE

;

ARRAY INFORMAT(*)
H06002AO H06002CO H06002FO H06002GO H06002HO H06002IO H06002JO
H06002KO H06002LO H06002MO H06002NO H06002OO H06002PO H06002QO

S06Y06AO S06Y06BO S06Y06CO S06Y06DO S06Y06EO S06Y06FO S06Y06GO S06Y06HO
S06Y06IO S06Y06JO S06Y18AO S06Y18BO S06Y18CO S06Y18DO S06Y19AO S06Y19BO
S06Y19CO S06Y19DO S06Y19EO S06Y19FO S06Y19IO S06Y19JO S06Y34AO S06Y34BO
S06Y34CO S06Y34DO S06Y34EO S06Y34FO S06Y34GO S06Y34HO S06Y34IO S06Y34JO
S06Y36AO S06Y36BO S06Y36CO S06Y36DO S06Y36EO S06Y36FO S06Y36GO S06Y36HO
S06Y36IO S06Y37AO S06Y37BO S06Y37CO S06Y37DO S06Y37EO S06Y37FO S06Y37GO
S06Y37HO S06Y37IO S06Y37JO S06Y37KO S06Y37LO S06Y37MO S06Y37NO

H06070AO H06070BO H06070CO H06070DO H06070EO

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
H06002A H06002C H06002F H06002G H06002H H06002I H06002J H06002K
H06002L H06002M H06002N H06002O H06002P H06002Q

S06Y06A S06Y06B S06Y06C S06Y06D S06Y06E S06Y06F S06Y06G S06Y06H

S06Y06I S06Y06J S06Y18A S06Y18B S06Y18C S06Y18D S06Y19A S06Y19B
S06Y19C S06Y19D S06Y19E S06Y19F S06Y19I S06Y19J S06Y34A S06Y34B
S06Y34C S06Y34D S06Y34E S06Y34F S06Y34G S06Y34H S06Y34I S06Y34J
S06Y36A S06Y36B S06Y36C S06Y36D S06Y36E S06Y36F S06Y36G S06Y36H
S06Y36I S06Y37A S06Y37B S06Y37C S06Y37D S06Y37E S06Y37F S06Y37G
S06Y37H S06Y37I S06Y37J S06Y37K S06Y37L S06Y37M S06Y37N

H06070A H06070B H06070C H06070D H06070E

SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
MARKED.;

*****;

/* skip coding scheme for all surveys not returned */

IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;

/** Note 1 -- H06006, H06007 health plan usage */

IF H06006 > 0 OR H06006 =.D THEN N1=1;
ELSE IF H06006=.N THEN DO;
IF H06007 NOT=. THEN DO;
N1=2;
H06007=.C;
END;
ELSE DO;
N1=3;
H06007=.N;
END;
END;
ELSE IF H06006=. THEN N1=4;

/** Note 2 -- H06008 H06009 H06010 H06011: Personal doctor or nurse */

IF H06008 IN (1,.) AND H06009 = .N THEN DO;
H06008 = 2;
H06009 =.C;
IF H06010=. THEN H06010=.N;
ELSE H06010=.C;
N2=1;
END;
ELSE IF H06008 IN (1) AND H06009 NE .N THEN DO;
IF H06010 IN (1) AND H06011 IN (1,2,3) THEN DO;
H06011=.C;
N2=2;
END;
ELSE IF H06010 IN (.) AND H06011 IN (1,2,3) THEN DO;
H06010=2;
N2=3;
END;
ELSE IF H06010 IN (1) AND H06011 IN (.) THEN DO;
H06011=.N;
N2=4;
END;
ELSE IF H06010 IN (2) THEN DO;
N2=5;
END;
ELSE IF H06010 IN (.) AND H06011 IN (.) THEN DO;
N2=6;
END;
END;
ELSE IF H06008 IN (2,.) THEN DO;
IF H06009 NOT IN (.N, .) AND H06010 IN (1) AND H06011 IN (1,2,3)
THEN DO;
H06008=1;
H06011=.C;
N2=7;
END;
ELSE IF H06009 NOT IN (.N, .) AND H06010 IN (.) AND H06011 IN (1,2,3)

```

THEN DO;
  H06008=1;
  N2=8;
END;
ELSE IF H06009 NOT IN (.N, .) AND H06010 IN (.) AND H06011 IN (.)
THEN DO;
  H06008=1;
  N2=9;
END;
ELSE IF H06008=2 AND H06009 IN (.) AND H06010 IN (1) AND H06011 IN (1,2,3)
THEN DO;
  H06009=.N;
  H06010=.C;
  N2=10;
END;
ELSE IF H06008 = 2 AND H06009 IN (.N)
THEN DO;
  H06009=.C;
  IF H06010=. THEN H06010=.N;
  ELSE H06010=.C;
  N2=11;
END;
ELSE IF H06010 IN (1)
THEN DO;
  H06008=1;
  IF H06011=. THEN H06011=.N;
  ELSE H06011=.C;
  N2=12;
END;
ELSE IF H06010 IN (2)
THEN DO;
  H06008=1;
  N2=13;
END;
ELSE IF H06008=2 AND H06009 In (.) AND H06010= . THEN DO;
  H06009=.N;
  H06010=.N;
  N2=14;
END;
ELSE IF H06008=. AND H06009=. AND H06010=. THEN DO;
  N2=15;
END;
END;

```

/** Note 3 -- H06012, H06013: needed to see a specialist in last 12 months **/

```

IF H06012=1 AND H06013 IN (1,2,3,.) THEN N3=1;
ELSE IF H06012 IN (1,.) AND H06013=.N THEN DO;
  H06012=2;
  H06013=.C;
  N3=2;
END;
ELSE IF H06012 IN (2,.) AND H06013 IN (1,2,3) THEN DO;
  H06012=1;
  N3=3;
END;
ELSE IF H06012=2 AND H06013 IN (.,.N) THEN DO;
  IF H06013=. THEN H06013=.N;
  ELSE H06013=.C;
  N3=4;
END;
ELSE IF H06012=. AND H06013=. THEN N3=5;

```

/** Note 4 -- H06014, H06015: saw a specialist in last 12 months **/

```

IF H06014=1 AND H06015 IN (0,1,2,3,4,5,6,7,8,9,10,.) THEN N4=1;
ELSE IF H06014 IN (1,.) AND H06015=.N THEN DO;
  H06014=2;
  H06015=.C;

```

```

N4=2;
END;
ELSE IF H06014 IN (2,.) AND H06015 IN (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
  H06014=1;
  N4=3;
END;
ELSE IF H06014=2 AND H06015 IN (.,.N) THEN DO;
  IF H06015=. THEN H06015=.N;
  ELSE H06015=.C;
  N4=4;
END;
ELSE IF H06014=. AND H06015=. THEN N4=5;

```

```

/** Note 5 -- called a doctor's office: H06016, H06017 **/

```

```

IF H06016=1 AND H06017 IN (1,2,3,4,.) THEN N5=1;
ELSE IF H06016 IN (1,.) AND H06017=.N THEN DO;
  H06016=2;
  H06017=.C;
  N5=2;
END;
ELSE IF H06016 IN (2,.) AND H06017 IN (1,2,3,4) THEN DO;
  H06016=1;
  N5=3;
END;
ELSE IF H06016=2 AND H06017 IN (.,.N) THEN DO;
  IF H06017=. THEN H06017=.N;
  ELSE H06017=.C;
  N5=4;
END;
ELSE IF H06016=. AND H06017=. THEN N5=5;

```

```

/** Note 6 -- H06018,H06019,H06020: illness or injury **/

```

```

ARRAY NOTE6 H06019 H06020;
N6MARK=0;
N6NMISS=0;
N6NN=0;

DO OVER NOTE6;
  IF NOTE6 NE . THEN N6NMISS+1;
  IF NOTE6 NOT IN (.N,.) THEN N6MARK+1;
  IF NOTE6 EQ .N THEN N6NN+1;
END;

IF H06018=1 AND N6NMISS=0 THEN DO;
  N6=1;
END;
ELSE IF H06018 IN (1,.) AND N6NMISS>0 AND N6MARK=0 THEN DO;
  H06018=2;
  N6=2;
  DO OVER NOTE6;
    IF NOTE6=. THEN NOTE6=.N;
    ELSE NOTE6=.C;
  END;
END;
ELSE IF H06018=1 AND N6MARK=1 AND N6NN=1 THEN DO;
  DO OVER NOTE6;
    IF NOTE6=.N THEN NOTE6=.;
  END;
  N6=3;
END;
ELSE IF H06018=1 AND N6MARK>0 THEN DO;
  N6=4;
END;
ELSE IF H06018=2 AND N6MARK=1 AND N6NN=1 THEN DO;
  H06019=.C;
  H06020=.C;

```

```

        N6=5;
    END;
ELSE IF H06018 IN (2,.) AND N6MARK>0 THEN DO;
    H06018=1;
    N6=6;
    DO OVER NOTE6;
        IF NOTE6=.N THEN NOTE6=.;
    END;
END;
ELSE IF H06018=2 AND (N6NMISS=0 OR (N6NMISS>0 AND N6MARK=0)) THEN DO;
    N6=7;
    DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
END;
ELSE IF H06018=. AND N6MARK=1 AND N6NN=1 THEN DO;
    H06018=2;
    H06019=.C;
    H06020=.C;
    N6=8;
END;
ELSE IF H06018=. AND N6NMISS=0 THEN N6=9;

DROP N6NMISS N6MARK N6NN;

/** Note 7 -- H06021,H06022,H06023: regular or routine healthcare **/

ARRAY NOTE7 H06022 H06023;
N7MARK=0;
N7NMISS=0;
N7NN=0;

DO OVER NOTE7;
    IF NOTE7 NE . THEN N7NMISS+1;
    IF NOTE7 NOT IN (.N,.) THEN N7MARK+1;
    IF NOTE7 EQ .N THEN N7NN+1;
END;

IF H06021=1 AND N7NMISS=0 THEN DO;
    N7=1;
END;
ELSE IF H06021 IN (1,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
    H06021=2;
    N7=2;
    DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
        ELSE NOTE7=.C;
    END;
END;
ELSE IF H06021=1 AND N7MARK=1 AND N7NN=1 THEN DO;
    DO OVER NOTE7;
        IF NOTE7=.N THEN NOTE7=.;
    END;
    N7=3;
END;
ELSE IF H06021=1 AND N7MARK>0 THEN DO;
    N7=4;
END;
ELSE IF H06021=2 AND N7MARK=1 AND N7NN=1 THEN DO;
    H06022=.C;
    H06023=.C;
    N7=5;
END;
ELSE IF H06021 IN (2,.) AND N7MARK>0 THEN DO;
    H06021=1;
    N7=6;
    DO OVER NOTE7;
        IF NOTE7=.N THEN NOTE7=.;
    END;
END;

```

```

ELSE IF H06021=2 AND (N7NMISS=0 OR (N7NMISS>0 AND N7MARK=0)) THEN DO;
  N7=7;
  DO OVER NOTE7;
    IF NOTE7=. THEN NOTE7=.N;
    ELSE NOTE7=.C;
  END;
END;
ELSE IF H06021=. AND N7MARK=1 AND N7NN=1 THEN DO;
  H06021=2;
  H06022=.C;
  H06023=.C;
  N7=8;
END;
ELSE IF H06021=. AND N7NMISS=0 THEN N7=9;

DROP N7NMISS N7MARK N7NN;

/** Note 8 -- H06025, H06026-H06037: doctor's office or clinic **/

ARRAY NOTE8 H06026-H06037;

N8MARK=0;
N8NMISS=0;

DO OVER NOTE8;
  IF NOTE8 NE . THEN N8NMISS+1;
  IF NOTE8 NOT IN (., .N) THEN N8MARK+1;
END;

IF H06025=1 THEN DO;
  N8=1;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF H06025 IN (2,3,4,5,6,7,..) AND N8NMISS>0 AND N8MARK=0 THEN DO;
  H06025=1;
  N8=2;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF H06025 IN (2,3,4,5,6,7) AND (N8NMISS=0 OR N8MARK>0) THEN DO;
  DO OVER NOTE8;
    IF NOTE8=.N THEN NOTE8=.;
  END;
  N8=3;
END;
ELSE IF H06025=. AND N8NMISS=0 THEN N8=4;
ELSE IF H06025 IN (.) AND N8MARK>0 THEN DO;
  N8=5;
  DO OVER NOTE8;
    IF NOTE8=.N THEN NOTE8=.;
  END;
END;

DROP N8NMISS N8MARK;

/** Note 9 -- You or doctor believed you needed care, tests or treatment:
H06026, H06027 **/

IF H06026 IN (.N, .C) THEN N9=1;
ELSE IF H06026=1 AND H06027 IN (1,2,3,..) THEN N9=2;
ELSE IF H06026 IN (1,..) AND H06027=.N THEN DO;

```

```

        H06026=2;
        H06027=.C;
        N9=3;
    END;
    ELSE IF H06026 IN (2,.) AND H06027 IN (1,2,3) THEN DO;
        H06026=1;
        N9=4;
    END;
    ELSE IF H06026=2 AND H06027 IN (.,.N) THEN DO;
        IF H06027=. THEN H06027=.N;
        ELSE H06027=.C;
        N9=5;
    END;
    ELSE IF H06026=. AND H06027=. THEN N9=6;

/** Note 10 -- Needed approval from healthplan for care, tests or treatment:
        H06028, H06029 **/

    IF H06028 IN (.,.C) THEN N10=1;
    ELSE IF H06028=1 AND H06029 IN (1,2,3,.) THEN N10=2;
    ELSE IF H06028 IN (1,.) AND H06029=.N THEN DO;
        H06028=2;
        H06029=.C;
        N10=3;
    END;
    ELSE IF H06028 IN (2,.) AND H06029 IN (1,2,3) THEN DO;
        H06028=1;
        N10=4;
    END;
    ELSE IF H06028=2 AND H06029 IN (.,.N) THEN DO;
        IF H06029=. THEN H06029=.N;
        ELSE H06029=.C;
        N10=5;
    END;
    ELSE IF H06028=. AND H06029=. THEN N10=6;

/** Note 10H -- S06Y01, S06Y26A-S06Y26D S06Y27A-S06Y27D
                S06Y28A-S06Y28C S06Y29A-S06Y29C
                S06Y30A-S06Y30D S06Y06A-S06Y06J
                S06Y19A-S06Y19J S06Y17
                S06Y18A-S06Y18D S06Y31
                S06Y32A-S06Y32C S06Y33
                S06Y34A-S06Y34J S06Y36A-S06Y36I
                S06Y37A-S06Y37N S06Y35 S06Y22 S06Y23 S06Y24
: prescription medicine **/

    ARRAY NOTE10H1 S06Y17 S06Y31 S06Y33 S06Y35 S06Y22 S06Y23 S06Y24
                S06Y26A--S06Y26D S06Y27A--S06Y27D
                S06Y28A--S06Y28C S06Y29A--S06Y29C
                S06Y30A--S06Y30D S06Y32A--S06Y32C ;

    ARRAY NOTE10H2 S06Y06A--S06Y06J
                S06Y19A--S06Y19F S06Y19I--S06Y19J S06Y18A--S06Y18D
                S06Y34A--S06Y34J S06Y36A--S06Y36I S06Y37A--S06Y37N;

    N10HMARK=0;
    N10HNMISS=0;

    DO OVER NOTE10H1;
        IF NOTE10H1 NE . THEN N10HNMISS+1;
        IF NOTE10H1 NOT IN (.,.N,.D) THEN N10HMARK+1;
    END;

    DO OVER NOTE10H2;
        IF NOTE10H2 NOT IN (.,2) THEN N10HNMISS+1;
        IF NOTE10H2 NOT IN (.,.N,2) THEN N10HMARK+1;
    END;

    IF S06Y01=2 THEN DO;

```

```

N10H=1;
DO OVER NOTE10H1;
  IF NOTE10H1=. THEN NOTE10H1=.N;
  ELSE NOTE10H1=.C;
END;
DO OVER NOTE10H2;
  IF NOTE10H2 IN (.,2) THEN NOTE10H2=.N;
  ELSE NOTE10H2=.C;
END;
END;
ELSE IF S06Y01 IN (1,.) AND N10HNMISS>0 AND N10HMARK=0 THEN DO;
  S06Y01=2;
  N10H=2;
  DO OVER NOTE10H1;
    IF NOTE10H1=. THEN NOTE10H1=.N;
    ELSE NOTE10H1=.C;
  END;
  DO OVER NOTE10H2;
    IF NOTE10H2 IN (.,2) THEN NOTE10H2=.N;
    ELSE NOTE10H2=.C;
  END;
END;
ELSE IF S06Y01 IN (1) AND (N10HNMISS=0 OR N10HMARK>0) THEN DO;
/*
  DO OVER NOTE10H1;
    IF NOTE10H1=.N THEN NOTE10H1=.;
  END;
  DO OVER NOTE10H2;
    IF NOTE10H2=.N THEN NOTE10H2=.;
  END;
*/
  N10H=3;
  END;
  ELSE IF S06Y01=. AND N10HNMISS > 0 THEN DO;
    N10H=4;
    *S06Y01=1;
  END;
  ELSE IF S06Y01=. THEN DO;
    N10H=5;
    DO OVER NOTE10H1;
      IF NOTE10H1 NE . THEN NOTE10H1=.;
    END;
    DO OVER NOTE10H2;
      IF NOTE10H2 NE . THEN NOTE10H2=.;
    END;
  END;
END;

DROP N10HNMISS N10HMARK;

/** Note 10I -- S06Y17, S06Y18A-S06Y18D
      : Filed claims for prescription filed at non-network
      : pharmacy
**/

ARRAY NOTE10I S06Y18A--S06Y18D
      ;

N10INMISS=0;

DO OVER NOTE10I;
  IF NOTE10I NOT IN (.,2) THEN N10INMISS+1;
END;

IF S06Y17 In (.N, .C) AND S06Y18A In (.N, .C) AND
  S06Y18B In (.N, .C) AND S06Y18C In (.N, .C) AND
  S06Y18D In (.N, .C)
THEN N10I=1;
ELSE IF S06Y17=2 THEN DO;
  N10I=2;
  DO OVER NOTE10I;

```

```

        IF NOTE10I IN (.,2) THEN NOTE10I=.N;
        ELSE NOTE10I=.C;
    END;
END;
ELSE IF S06Y17 IN (1) THEN DO;
    N10I=3;
END;
ELSE IF S06Y17=. AND N10INMISS > 0 THEN DO;
    N10I=4;
    S06Y17=1;
END;
ELSE IF S06Y17=. THEN DO;
    N10I=5;
    DO OVER NOTE10I;
        IF NOTE10I NE . THEN NOTE10I=.;
    END;
END;

DROP N10INMISS;

/** Note 10J -- S06Y31, S06Y32A-S06Y32C
                : Used netwrk civilian pharmacy
**/

ARRAY NOTE10J S06Y32A--S06Y32C ;

N10JNMISS=0;

DO OVER NOTE10J;
    IF NOTE10J NE (.) THEN N10JNMISS+1;
END;

IF S06Y31 In (.N, .C) AND S06Y32A In (.N, .C) AND
    S06Y32B In (.N, .C) AND S06Y32C In (.N, .C)
THEN N10J=1;
ELSE IF S06Y26C IN (1,2,3) THEN DO;
    S06Y31=1;
    N10J=2;
END;
ELSE IF S06Y31=2 THEN DO;
    /**Nov 9, 2006*****/
    IF S06Y26C=. THEN DO;
        S06Y26C=4;
        S06Y27C=.N;
        S06Y29B=.N;
        S06Y30C=.N;
        N10J=3;
    END;
    ELSE DO;
        N10J=4;
        DO OVER NOTE10J;
            IF NOTE10J=. THEN NOTE10J=.N;
            ELSE NOTE10J=.C;
        END;
    END;
END;
ELSE IF S06Y31 IN (1) THEN DO;
    N10J=5;
END;
ELSE IF S06Y31=. THEN N10J=6;

DROP N10JNMISS;

/** Note 10K -- S06Y33, S06Y34A-S06Y34J
                : Filled prescriptions at a civilian pharmacy
**/

ARRAY NOTE10K S06Y34A--S06Y34J

```



```

;

N10KMARK=0;
N10KNMISS=0;

DO OVER NOTE10K;
  IF NOTE10K NOT IN (., 2) THEN N10KNMISS+1;
  IF NOTE10K NOT IN (., .N, 2) THEN N10KMARK+1;
END;

IF S06Y33 In (.N, .C)
THEN N10K=1;
ELSE IF S06Y33=2 THEN DO;
  N10K=2;
  DO OVER NOTE10K;
    IF NOTE10K IN (.,2) THEN NOTE10K=.N;
    ELSE NOTE10K=.C;
  END;
END;
ELSE IF S06Y33 IN (1) THEN DO;
  N10K=3;
END;
ELSE IF S06Y33=. THEN N10K=4;

DROP N10KNMISS N10KMARK;

/** Note 10L -- S06Y35, S06Y37A-S06Y37N
                : Used TRICARE mail order pharmacy
**/
ARRAY NOTE10L S06Y37A--S06Y37N;
ARRAY NOTE10L1 S06Y22-S06Y24;

N10LMARK=0;
N10LNMISS=0;

DO OVER NOTE10L;
  IF NOTE10L NOT IN (., 2) THEN N10LNMISS+1;
  IF NOTE10L NOT IN (., .N, 2) THEN N10LMARK+1;
END;

IF S06Y35 In (.N, .C)
THEN N10L=1;
ELSE IF S06Y26B IN (1,2,3) THEN DO;
  S06Y35=1;
  N10L=2;
  DO OVER NOTE10L;
    IF NOTE10L IN (.,2) THEN NOTE10L=.N;
    ELSE NOTE10L=.C;
  END;
  DO OVER NOTE10L1;
    IF NOTE10L1 IN (.N) THEN NOTE10L1=.;
  END;
END;
ELSE IF S06Y35=2 THEN DO;
  /**Nov 9, 2006**!!!!!!!!!!!!!!!!!!!!***/
  IF S06Y26B=. THEN DO;
    S06Y26B=4;
    S06Y27B=.N;
    S06Y30B=.N;
    N10L=3;

    DO OVER NOTE10L1;
      IF NOTE10L1 IN (.) THEN NOTE10L1=.N;
      ELSE NOTE10L1=.C;
    END;
  END;
ELSE DO;
  N10L=4;

```

```

DO OVER NOTE10L1;
  IF NOTE10L1 IN (.) THEN NOTE10L1=.N;
  ELSE NOTE10L1=.C;
END;
END;
END;
ELSE IF S06Y35=1 THEN DO;
  N10L=5;
  DO OVER NOTE10L;
    IF NOTE10L IN (.,2) THEN NOTE10L=.N;
    ELSE NOTE10L=.C;
  END;
  DO OVER NOTE10L1;
    IF NOTE10L1 IN (.N) THEN NOTE10L1=.;
  END;
END;
ELSE IF S06Y35=. THEN DO;
  N10L=6;
  DO OVER NOTE10L1;
    IF NOTE10L1 IN (.N) THEN NOTE10L1=.;
  END;
END;

DROP N10LNMISS N10LMARK;

/** Note 10M -- S06Y23, S06Y24
      : Used Express Scripts website
**/

IF S06Y23 In (.N, .C) AND S06Y24 In (.N, .C)
THEN N10M=1;
ELSE IF S06Y23=1 AND S06Y24 IN (1,2,3,..) THEN N10M=2;
ELSE IF S06Y23 IN (1,..) AND S06Y24=.N THEN DO;
  S06Y23=2;
  S06Y24=.C;
  N10M=3;
END;
ELSE IF S06Y23 IN (2,..) AND S06Y24 IN (1,2,3) THEN DO;
  S06Y23=1;
  N10M=4;
END;
ELSE IF S06Y23=2 AND S06Y24 IN (.,.N) THEN DO;
  IF S06Y24=. THEN S06Y24=.N;
  ELSE S06Y24=.C;
  N10M=5;
END;
ELSE IF S06Y23=. AND S06Y24=. THEN N10M=6;

/** Note 13 -- H06039, H06040-H06041: claims to health plan **/

ARRAY NOTE13 H06040-H06041;
N13MARK=0;
N13NMISS=0;
N13NDK=0;

DO OVER NOTE13;
  IF NOTE13 NE . THEN N13NMISS+1;
  IF NOTE13 NOT IN (.N,..) THEN N13MARK+1;
  IF NOTE13 NOT IN (.,.D) THEN N13NDK+1;
END;

IF H06039=1 AND
(N13NMISS=0 OR (N13MARK>0 and N13NDK>0) or (N13NMISS>0 AND N13NDK=0))
THEN DO;
  N13=1;
  DO OVER NOTE13;
    IF NOTE13=.N THEN NOTE13=.;
  END;
END;
ELSE IF H06039 IN (1,..,D) AND N13NMISS>0 AND N13MARK=0 THEN DO;

```

```

N13=2;
H06039=2;
DO OVER NOTE13;
  IF NOTE13=. THEN NOTE13=.N;
  ELSE NOTE13=.C;
END;
END;
ELSE IF H06039 IN (2,..D) AND
  ((N13MARK>0 AND N13NDK>0) OR (N13NMISS>0 AND N13NDK=0))
  THEN DO;
  H06039=1;
  N13=3;
  DO OVER NOTE13;
    IF NOTE13=.N THEN NOTE13=.;
  END;
END;
ELSE IF H06039 IN (2) AND (N13NMISS=0 OR (N13NMISS>0 AND N13MARK=0)) THEN DO;
  N13=4;
  DO OVER NOTE13;
    IF NOTE13=. THEN NOTE13=.N;
    ELSE NOTE13=.C;
  END;
END;
ELSE IF H06039 IN (.D) AND N13NMISS=0 THEN DO;
  N13=5;
  DO OVER NOTE13;
    NOTE13=.N;
  END;
END;
ELSE IF H06039 IN (.) AND N13NMISS=0 THEN N13=6;

DROP N13NMISS N13MARK N13NDK;

/** NOTE14 -- H06042, H06043: **/

IF H06042=1 AND H06043 IN (1,2,3,..) THEN N14=1;
ELSE IF H06042 IN (1,..) AND H06043=.N THEN DO;
  H06042=2;
  H06043=.C;
  N14=2;
END;
ELSE IF H06042 IN (2,..) AND H06043 IN (1,2,3) THEN DO; /* JMA per Daisy's suggestion 3/20/03
*/
  H06042=1;
  N14=3;
END;
ELSE IF H06042=2 AND H06043 IN (.N,..) THEN DO;
  IF H06043=. THEN H06043=.N;
  ELSE H06043=.C;
  N14=4;
END;
ELSE IF H06042=. AND H06043=. THEN N14=5;

/** NOTE15 -- H06044, H06045: health plan's customer service **/

IF H06044=1 AND H06045 IN (1,2,3,..) THEN N15=1;
ELSE IF H06044 IN (1,..) AND H06045=.N THEN DO;
  H06044=2;
  H06045=.C;
  N15=2;
END;
ELSE IF H06044 IN (2,..) AND H06045 IN (1,2,3) THEN DO;
  H06044=1;
  N15=3;
END;
ELSE IF H06044=2 AND H06045 IN (.N,..) THEN DO;
  IF H06045=. THEN H06045=.N;
  ELSE H06045=.C;
  N15=4;

```

```

END;
ELSE IF H06044=. AND H06045=. THEN N15=5;

/** NOTE16 -- H06046, H06047: paperwork **/

IF H06046=1 AND H06047 IN (1,2,3,.) THEN N16=1;
ELSE IF H06046 IN (1,.) AND H06047=.N THEN DO;
  H06046=2;
  H06047=.C;
  N16=2;
END;
ELSE IF H06046 IN (2,.) AND H06047 IN (1,2,3) THEN DO;
  H06046=1;
  N16=3;
END;
ELSE IF H06046=2 AND H06047 IN (.N,.) THEN DO;
  IF H06047=. THEN H06047=.N;
  ELSE H06047=.C;
  N16=4;
END;
ELSE IF H06046=. AND H06047=. THEN N16=5;

/** Note 17 -- smoking: H06052, H06053-H06057 **/

ARRAY NOTE17 H06055 H06056 H06057;

IF H06052=1 AND H06053 IN (3,4) THEN DO; /* still smoke */
  IF H06054 NE . THEN H06054=.C;
  ELSE H06054=.N;

  IF H06055 EQ .N THEN DO; /* jma Sep 19 2006 */
    H06056 = .N;
    H06057 = .N;
  END;
  N17=1;
END;
ELSE IF H06052=1 AND H06053=2 THEN DO; /* quit */
  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */
  IF H06054 IN (2,.D) THEN DO; /* > 1 year ago */
    DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
  N17=2;
END;
ELSE IF H06054 IN (3,.) THEN DO; /* < 1 year ago */
  IF H06055 EQ .N THEN DO; /* jma Sep 19 2006 */
    H06056 = .N;
    H06057 = .N;
  END;
  N17=3;
END;
END;
ELSE IF H06052=1 AND H06053 IN (.D,.) THEN DO; /* don't know */
  IF H06054=2 THEN DO; /* > 1 year ago */

  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

  DO OVER NOTE17;
  IF NOTE17=. THEN NOTE17=.N;
  ELSE NOTE17=.C;
  END;
  H06053=2;
  N17=4;

```

```

END;
ELSE IF H06054=3 THEN DO;          /* < 1 year ago */
  H06053=2;

  IF H06055 EQ .N THEN DO;        /* jma Sep 19 2006 */
    H06056 = .N;
    H06057 = .N;
  END;

  N17=5;
END;
ELSE IF H06053 IN (.D) AND H06054 IN (.D,.) THEN DO;
  N17=6;
  IF H06054=. THEN H06054=.N;
  ELSE H06054=.C;
  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
END;
ELSE IF H06053 IN (.) AND H06054 IN (.D) THEN DO;
  N17=7;
  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
END;
ELSE IF H06053 IN (.) AND H06054 IN (.) THEN DO;
  N17=8;

  IF H06055 EQ .N THEN DO;        /* jma Sep 19 2006 */
    H06056 = .N;
    H06057 = .N;
  END;
END;
ELSE IF H06052 IN (2,.D,.) AND H06053 IN (3,4) THEN DO;
  H06052=1;

  IF H06054 NE . THEN H06054=.C;
  ELSE H06054=.N;

  IF H06055 EQ .N THEN DO;        /* jma Sep 19 2006 */
    H06056 = .N;
    H06057 = .N;
  END;

  N17=9;
END;
ELSE IF H06052 IN (2,.D) AND H06053 IN (2,.D, .) THEN DO; /*never smoke*/
  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

  IF H06053 NE . THEN H06053 =.C;
  ELSE H06053=.N;

  IF H06054 NE . THEN H06054 =.C;
  ELSE H06054=.N;

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;

  N17=10;
END;
ELSE IF H06052 IN ( .) THEN DO;
  IF (H06053 IN (2) AND
    H06054 IN (.) AND
    (H06055 IN (2,3,4,5) OR H06056 IN (2,3,4,5) OR H06057 IN (2,3,4,5)))
  THEN DO;
    /* JMA March 25 2004,

```

```

Updated because H06056 and H06057 have been added to the
skip pattern */

H06052=1;
H06054=3;
N17=11;
END;
ELSE IF H06053 IN (2,.) THEN DO; /*MRE/blank*/
  IF H06054 IN (2, .D) THEN DO;
    /* JMA March 25 2004,
    Updated because H06056 and H06057 have been added to the
    skip pattern */

    DO OVER NOTE17;
      IF NOTE17=. THEN NOTE17=.N;
      ELSE NOTE17=.C;
    END;
    N17=12;
  END;
ELSE IF H06054 IN (3,.) THEN DO;
  IF (H06055 IN (2,3,4,5) OR H06056 IN (2,3,4,5) OR H06057 IN (2,3,4,5))
  THEN DO;
    H06052=1;
    N17=13;
  END;
  ELSE DO;

    IF H06055 EQ .N THEN DO;                /* jma Sep 19 2006 */
      H06056 = .N;
      H06057 = .N;
    END;

    N17=14;
  END;
END;
ELSE IF H06053=.D THEN DO; /*MRE/blank*/
  /* JMA March 25 2004,
  Updated because H06056 and H06057 have been added to the
  skip pattern */

  IF H06054 NE . THEN H06054 =.C;
  ELSE H06054=.N;

  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;

  N17=15;
END;
END;

/** Note 18 - gender H06058, SEX, H06059--H06065,
XSEXA */

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

ARRAY fmaleval H06059 H06060 H06061 H06063 H06064 H06065
;

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 H06058=. THEN DO;
  IF (SEX='F' AND FMALE) THEN DO;
    N18a=1;
    XSEXA=2;
  END;
  ELSE IF (SEX='F' AND FMALE=0) THEN DO;
    N18a=2;
    XSEXA=2;
  END;
  ELSE IF (SEX='M' AND FMALE) THEN DO;
    N18a=3;
    XSEXA=1;
  END;
  ELSE IF (SEX='M' AND FMALE=0) THEN DO;
    N18a=4;
    XSEXA=1;
  END;
  ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
    N18a=5;
    XSEXA=2;
  END;
  ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
    N18a=6;
    XSEXA=.;
  END;
  ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
    N18a=7;
    XSEXA=.;
  END;
END;

```

```

ELSE IF (H06058=1) THEN DO;
  IF FMALE=0 THEN DO;
    N18a=8;
    XSEXA=1;
  END;
  ELSE IF FMALE THEN DO;
    IF SEX='F' THEN DO;
      N18a=9;
      XSEXA=2;
    END;
    ELSE DO;
      N18a=10;
      XSEXA=1;
    END;
  END;
END;

```

```

ELSE IF (H06058=2) THEN DO;
  IF FMALE THEN DO;
    N18a=11;
    XSEXA=2;
  END;
  ELSE IF FMALE=0 THEN DO;
    IF SEX='M' THEN DO;
      N18a=12;
      XSEXA=1;
    END;
    ELSE DO;
      N18a=13;
      XSEXA=2;
    END;
  END;
END;
END;

```

/* Note 18b - gender vs mammogram/paps/pregnancy */
/* REDEFINE FMALE TO LOOK ONLY AT MAMMOGRAM, PAP SMEAR ENTRIES and PREGNANCY */

```

ARRAY NOTE18b H06059 H06060 H06061 H06063 H06064 H06065
;
```

```

cntfemale=0;
DO OVER NOTE18b; /* mammogram/pap smear/PREGNANT*/
```

```

    IF NOTE18b NE . THEN cntfemale=cntfemale+1;
END;

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

IF XSEXA=1 THEN DO; /* male */
  IF FMALE=0 THEN DO;
    N18b=1;
    DO OVER NOTE18b;
    NOTE18b=.N;
  END;
END; /* valid skip */
ELSE IF FMALE=1 THEN DO;
  N18b=2;
  DO OVER NOTE18b;
  IF NOTE18b=. THEN NOTE18b = .N;
  ELSE NOTE18b=.C;
END;
END; /* inconsistent response */
END;
ELSE IF XSEXA=2 THEN N18b=3; /* female */
ELSE IF XSEXA=. THEN DO; /* missing sex */
  N18b=4;
  DO OVER NOTE18b;
  NOTE18b=.;
END;
END;

```

```

DROP FMALE CNTFMALE;

```

```

/* Note 19 - breast exam for female 40 or over */

```

```

IF XSEXA=1 THEN DO; /* male */
  IF (H06060=.C OR H06060=.N) AND (H06061=.C OR H06061=.N)
  THEN N19 = 1;
END;
ELSE IF XSEXA=2 THEN DO;
  IF H06060=2 THEN N19=2; /* female 40 or over */
  ELSE IF H06060=1 THEN DO; /* female < 40 */
    IF H06061 NE . THEN H06061=.C;
    ELSE H06061=.N;
    N19=3;
  END;
  ELSE IF H06060=. THEN DO;
    IF H06061 NE . THEN DO;
      H06060=2;
      N19=4;
    END;
    ELSE IF H06061=. THEN DO;
      IF AGE<40 THEN DO;
        H06060 = 1;
        H06061=.N;
        N19=5;
      END;
      ELSE IF AGE >= 40 THEN DO;
        H06060=1;
        H06061=.N;
        N19=6;
      END;
      ELSE IF AGE=. THEN N19=7;
    END;
  END;
END;
ELSE IF XSEXA=. THEN N19=8;

```

```

/* Note 20 - gender vs Pregnancy */

```



```

IF XSEX=1 THEN N20=1;          /* male */
ELSE IF XSEX=2 THEN DO;      /* female */
  IF H06063=1 THEN DO;      /* pregnant */
    IF H06064=1 THEN DO;
      N20=2;
      IF H06065=. THEN H06065 = .N;
      ELSE H06065=.C;
    END;
    ELSE IF H06064=2 AND H06065 IN (2) THEN DO;
      N20=3;
      H06065=. ;
    END;
    ELSE IF H06064=2 AND H06065 IN (4,3,1,.) THEN DO;
      N20=4;
    END;
    ELSE IF H06064 IN (3,.) THEN N20=5;
  END;
  ELSE IF H06063=2 THEN DO;
    IF H06064=. THEN H06064 = .N;
    ELSE H06064=.C;
    N20=6;
  END;
  ELSE IF H06063=3 THEN DO;
    N20=7;
    IF H06064=. THEN H06064 = .N;
    ELSE H06064=.C;
    IF H06065=. THEN H06065=.N;
    ELSE H06065=.C;
  END;
  ELSE IF H06063 IN (.) THEN DO;
    IF H06064=1 THEN DO;
      N20=8;
      H06063=1;
      IF H06065=. THEN H06065 = .N;
      ELSE H06065=.C;
    END;
    ELSE IF H06064=2 AND H06065 IN (2) THEN DO;
      N20=9;
      H06063=1;
      H06065=. ;
    END;
    ELSE IF H06064=2 AND H06065 IN (4,3,1) THEN DO;
      H06063=1;
      N20=10;
    END;
    ELSE IF H06064=3 THEN DO;
      H06063=1;
      N20=11;
    END;
    ELSE IF H06064=. THEN DO;
      N20=12;
    END;
  END;
END;
END;
ELSE IF XSEX=. AND H06063 IN (.) THEN N20=13;

DROP AGE SEX;

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 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 FORMAT;
  VALUE GRID
    0='0'
    1-9999='>=1' ;
  VALUE $GRIDB
    1-5 = '1-5' ;
  VALUE $AGE
    018-039='<40'
    040-120='>=40' ;
  VALUE SCALE
    0-10='0-10' ;
  VALUE MARK
    1-6='Marked' ;
  VALUE MARKB
    2-7='Marked' ;

  VALUE MARKC
    1='1'
    2-HIGH='>1' ;

```

```

RUN;

```

```

proc contents data=out.cschm06q;
run;

```

**F.2.H Q4FY2006\PROGRAMS\CODINGScheme\CSCHM06Q.FMT - INCLUDE FILE FOR CODING SCHEME FOR QUARTER 4
FY2006.**

/* Formats for original answers to survey questions,
after variables have been recoded */

```

FORMAT H06001    H06001_O YN.
        H06003    H06003_O MEDA.
        H06004    H06004_O MEDB.
        H06005    H06005_O MEDSUPP.
        H06006    H06006_O HPLAN1_.
        H06007    H06007_O HPTIME.

H06008 H06008_O  H06010 H06010_O  H06012 H06012_O
H06014 H06014_O  H06016 H06016_O  H06018 H06018_O
H06021 H06021_O  H06026 H06026_O  H06028 H06028_O
        YN.

H06009    H06009_O RATE1_.
H06011    H06011_O PROB1_.
H06013    H06013_O PROB2_.
H06015    H06015_O RATE2_.
H06017    H06017_O OFTEN1_.
H06019    H06019_O OFTEN2_.
H06020    H06020_O TIME1_.
H06022    H06022_O OFTEN3_.
H06023    H06023_O TIME2_.
H06024    H06024_O OFTEN4_.
H06025    H06025_O OFTEN4_.

H06027    H06027_O PROB3_.
H06029    H06029_O PROB3a.

H06030-H06036  H06030_O--H06036_O OFTEN5_.

H06037    H06037_O RATE3_.

H06038    H06038_O PLACE.

H06039    H06039_O YNDNK.

H06040--H06041 H06040_O--H06041_O OFTEN6_.

H06042 H06042_O  H06044 H06044_O
H06046 H06046_O  H06060 H06060_O
H06067 H06067_O
        YN.

H06043    H06043_O PROB8_.
H06045    H06045_O PROB9_.
H06047    H06047_O PROB10_.
H06048    H06048_O RATE4_.

H06049    H06049_O TIME5_.
H06050    H06050_O YNBP_.
H06051    H06051_O TIME7_.
H06052    H06052_O YNDNK.
H06053    H06053_O TIME8_.
H06054    H06054_O TIME9_.
H06055    H06055_O OFTEN7_.
H06056    H06056_O OFTEN7_.
H06057    H06057_O OFTEN7_.
H06058    H06058_O SEX.
H06059    H06059_O TIME11_.
H06061    H06061_O TIME12_.
H06063    H06063_O YNPREG.
H06064    H06064_O PREG1_.
H06065    H06065_O PREG2_.
H06066    H06066_O HEALTH.

H06068F H06068FO
H06068I H06068IO

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H06069 H06069_O
 TIME14_.

 SREDA SREDA_O EDUC.
 H06070 H06070_O HISP.
 SRAGE SRAGE_O AGEGRP.

 S06Y01 S06Y01_O
 S06Y17 S06Y17_O
 S06Y31 S06Y31_O
 S06Y33 S06Y33_O
 S06Y35 S06Y35_O
 S06Y23 S06Y23_O
 YN.

 S06Y26A S06Y26B S06Y26C S06Y26D
 S06Y26AO S06Y26BO S06Y26CO S06Y26DO
 PRSCR1_.
 S06Y27A S06Y27B S06Y27C S06Y27D
 S06Y27AO S06Y27BO S06Y27CO S06Y27DO
 PRSCR2_.
 S06Y28A S06Y28B S06Y28C
 S06Y28AO S06Y28BO S06Y28CO
 PRSCR3_.
 S06Y29A S06Y29B S06Y29C
 S06Y29AO S06Y29BO S06Y29CO
 PRSCR4_.
 S06Y30A S06Y30B S06Y30C S06Y30D
 S06Y30AO S06Y30BO S06Y30CO S06Y30DO
 S06Y32A S06Y32B S06Y32C
 S06Y32AO S06Y32BO S06Y32CO
 PRSCR5_.

 S06Y22 S06Y22_O PRSCR6_.
 S06Y24 S06Y24_O PRSCR7_.
 MISS_1 MISS_4-MISS_9 MISS_TOT 4.
 e1 e2 e3 e4 e5 e6 e7 e8 e9 e10 e11 e12 e13 e14 e15 e16 e17
 e18 e19 e20 e21 e22 e23
 \$e_.;

LABEL H06001_O='Are you the person listed on envelope'
 H06001 ='Are you the person listed on envelope'
 H06002AO='Health plan(s) covered: TRICARE Prime'
 H06002A ='Health plan(s) covered: TRICARE Prime'
 H06002CO='Health plan(s) covered: TRICARE Ext/Std'
 H06002C ='Health plan(s) covered: TRICARE Ext/Std'
 H06002NO='Health plan(s) covered: TRICARE Plus'
 H06002N ='Health plan(s) covered: TRICARE Plus'
 H06002OO='Health plan(s) covered: TRICARE For Life'
 H06002O ='Health plan(s) covered: TRICARE For Life'
 H06002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
 H06002P ='Health plan(s) covered: TRICARE Supplmntl Ins'
 H06002QO='Health plan(s) covered: TRICARE Reserve Select'
 H06002Q ='Health plan(s) covered: TRICARE Reserve Select'
 H06002FO='Health plan(s) covered: MEDICARE'
 H06002F ='Health plan(s) covered: MEDICARE'
 H06002GO='Health plan(s) covered: FEHBP'
 H06002G ='Health plan(s) covered: FEHBP'
 H06002HO='Health plan(s) covered: Medicaid'
 H06002H ='Health plan(s) covered: Medicaid'
 H06002IO='Health plan(s) covered: Civilian HMO'
 H06002I ='Health plan(s) covered: Civilian HMO'
 H06002JO='Health plan(s) covered: Other civilian'
 H06002J ='Health plan(s) covered: Other civilian'
 H06002KO='Health plan(s) covered: USFHP'
 H06002K ='Health plan(s) covered: USFHP'
 H06002MO='Health plan(s) covered: Veterans'
 H06002M ='Health plan(s) covered: Veterans'
 H06002LO='Health plan(s) covered: Not sure'
 H06002L ='Health plan(s) covered: Not sure'
 H06003 ='Currently Covered Medicare Part A'

H06003_O='Currently Covered Medicare Part A'
H06004 = 'Currently Covered Medicare Part B'
H06004_O='Currently Covered Medicare Part B'
H06005 = 'Currently Covered Medicare Supplemental'
H06005_O='Currently Covered Medicare Supplemental'
H06006_O='Which health plan did you use most'
H06006 = 'Which health plan did you use most'
H06007_O='Yrs in a row with health plan'
H06007 = 'Yrs in a row with health plan'
H06008_O='Have one person think of as personal Dr'
H06008 = 'Have one person think of as personal Dr'
H06009_O='Rating of your personal Dr or nurs'
H06009 = 'Rating of your personal Dr or nurs'
H06010_O='Same prs Dr/nurs before joined hlth pln'
H06010 = 'Same prs Dr/nurs before joined hlth pln'
H06011_O='Health plan: prblm to get Dr happy with'
H06011 = 'Health plan: prblm to get Dr happy with'
H06012_O='In lst yr:you/Dr think you need spclst'
H06012 = 'In lst yr:you/Dr think you need spclst'
H06013_O='In lst yr:how much prblm see spclst'
H06013 = 'In lst yr:how much prblm see spclst'
H06014_O='In lst yr:did you see a specialist'
H06014 = 'In lst yr:did you see a specialist'
H06015_O='Rating of specialist seen in lst yr'
H06015 = 'Rating of specialist seen in lst yr'
H06016_O='In lst yr:call Dr for help/advice'
H06016 = 'In lst yr:call Dr for help/advice'
H06017_O='In lst yr:when call how often get hlp nd'
H06017 = 'In lst yr:when call how often get hlp nd'
H06018_O='In lst yr:ill/injry/cond care right away'
H06018 = 'In lst yr:ill/injry/cond care right away'
H06019_O='In lst yr:get urgnt care as soon as wntd'
H06019 = 'In lst yr:get urgnt care as soon as wntd'
H06020_O='In lst yr:wait btwn try get care,see prv'
H06020 = 'In lst yr:wait btwn try get care,see prv'
H06021_O='In lst yr:make appts non-urgnt hlth care'
H06021 = 'In lst yr:make appts non-urgnt hlth care'
H06022_O='In lst yr:non-urg hlth cre appt whn wntd'
H06022 = 'In lst yr:non-urg hlth cre appt whn wntd'
H06023_O='In lst yr:days btwn appt & see prvder'
H06023 = 'In lst yr:days btwn appt & see prvder'
H06024_O='In lst yr:goto emrgncy rm for own care'
H06024 = 'In lst yr:goto emrgncy rm for own care'
H06025_O='In lst yr:goto Dr office/clinic for care'
H06025 = 'In lst yr:goto Dr office/clinic for care'
H06026_O='In lst yr:think need care/tests/trtmnt'
H06026 = 'In lst yr:think need care/tests/trtmnt'
H06027_O='In lst yr:prblm to get care thght ncssry'
H06027 = 'In lst yr:prblm to get care thght ncssry'
H06028_O='In lst yr:need apprvl care/tests/trtmnt'
H06028 = 'In lst yr:need apprvl care/tests/trtmnt'
H06029_O='In lst yr:prblm w/delays wait for apprv'
H06029 = 'In lst yr:prblm w/delays wait for apprv'
H06030_O='In lst yr:wait within 15 min appt see Dr'
H06030 = 'In lst yr:wait within 15 min appt see Dr'
H06031_O='In lst yr:how oftn treat w/crtsy/respct'
H06031 = 'In lst yr:how oftn treat w/crtsy/respct'
H06032_O='In lst yr:how oftn staff helpful'
H06032 = 'In lst yr:how oftn staff helpful'
H06033_O='In lst yr:how oftn Drs listen to you'
H06033 = 'In lst yr:how oftn Drs listen to you'
H06034_O='In lst yr:how oftn Drs explain things'
H06034 = 'In lst yr:how oftn Drs explain things'
H06035_O='In lst yr:how oftn Drs show respect'
H06035 = 'In lst yr:how oftn Drs show respect'
H06036_O='In lst yr:how oftn Drs spend enough time'
H06036 = 'In lst yr:how oftn Drs spend enough time'
H06037_O='Rating of all health care in lst yr'
H06037 = 'Rating of all health care in lst yr'
H06038_O='In lst yr:fclty use most for Health care'
H06038 = 'In lst yr:fclty use most for Health care'
H06039_O='In lst yr:send in any claims'
H06039 = 'In lst yr:send in any claims'

H06040_O='In lst yr:hlth pln handle in rsnble time'
H06040 = 'In lst yr:hlth pln handle in rsnble time'
H06041_O='In lst yr:how oftn handle correctly'
H06041 = 'In lst yr:how oftn handle correctly'
H06042_O='In lst yr:info in written materials'
H06042 = 'In lst yr:info in written materials'
H06043_O='In lst yr:prblm to find/undrstnd mtrls'
H06043 = 'In lst yr:prblm to find/undrstnd mtrls'
H06044_O='In lst yr:hlth plan customer srvc help'
H06044 = 'In lst yr:hlth plan customer srvc help'
H06045_O='In lst yr:prblm get help from cstmr srvc'
H06045 = 'In lst yr:prblm get help from cstmr srvc'
H06046_O='In lst yr:fill out paperwork'
H06046 = 'In lst yr:fill out paperwork'
H06047_O='In lst yr:prblms with paperwork'
H06047 = 'In lst yr:prblms with paperwork'
H06048 = 'Rating of all experience with hlth plan'
H06048_O='Rating of all experience with hlth plan'
H06049_O='Blood pressure: when lst reading'
H06049 = 'Blood pressure: when lst reading'
H06050_O='Blood pressure: know if too high or not'
H06050 = 'Blood pressure: know if too high or not'
H06051_O='When did you lst have a flu shot'
H06051 = 'When did you lst have a flu shot'
H06052 = 'Smoked at least 100 cigarettes in life'
H06052_O='Smoked at least 100 cigarettes in life'
H06053 = 'Smoke everyday, some days or not at all'
H06053_O='Smoke everyday, some days or not at all'
H06054_O='How long since you quit smoking'
H06054 = 'How long since you quit smoking'
H06055_O='Lst yr: # visits advised to quit smoking'
H06055 = 'Lst yr: # visits advised to quit smoking'
H06056 = '# visits recom medic assist quit smoking'
H06056_O='# visits recom medic assist quit smoking'
H06057 = '# vist discu meth/strag asst quit smokng'
H06057_O='# vist discu meth/strag asst quit smokng'
H06058_O='Are you male or female'
H06058 = 'Are you male or female'
H06059_O='Lst have a Pap smear test'
H06059 = 'Lst have a Pap smear test'
H06060_O='Are you under age 40'
H06060 = 'Are you under age 40'
H06061_O='Lst time: breasts checked mammography'
H06061 = 'Lst time: breasts checked mammography'
H06063_O='Been pregnant in lst yr or pregnant now'
H06063 = 'Been pregnant in lst yr or pregnant now'
H06064_O='In what trimester is your pregnancy'
H06064 = 'In what trimester is your pregnancy'
H06065_O='Trimester first received prenatal care'
H06065 = 'Trimester first received prenatal care'
H06066_O='In gnrl, how would you rate ovrall hlth'
H06066 = 'In gnrl, how would you rate ovrall hlth'
H06067_O='Impairment/Hlth prblm limit activities'
H06067 = 'Impairment/Hlth prblm limit activities'

H06068FO='Height without shoes (feet)'
H06068F = 'Height without shoes (feet)'
H06068IO='Height without shoes (inches)'
H06068I = 'Height without shoes (inches)'
H06069_O='Weight without shoes'
H06069 = 'Weight without shoes'

SREDA_O = 'Highest grade completed'
SREDA = 'Highest grade completed'
H06070_O='Are you Spanish/Hispanic/Latino'
H06070 = 'Are you Spanish/Hispanic/Latino'
H06070AO='Not Spanish/Hispanic/Latino'
H06070A = 'Not Spanish/Hispanic/Latino'
H06070BO='Mexican, Mexican American, Chicano'
H06070B = 'Mexican, Mexican American, Chicano'
H06070CO='Puerto Rican'
H06070C = 'Puerto Rican'
H06070DO='Cuban'

H06070D = 'Cuban'
 H06070EO= 'Other Spanish, Hispanic, or Latino'
 H06070E = '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_0 = 'What is your age now'
 SRAGE = 'What is your age now'

S06Y01_0= 'In lst 90 days:have flld TRICARE prscrptn'
 S06Y01 = 'In lst 90 days:have flld TRICARE prscrptn'
 S06Y06AO= 'prscrptn flld, MTF:medical appointment'
 S06Y06A = 'prscrptn flld, MTF:medical appointment'
 S06Y06BO= 'prscrptn flld, MTF:visit MTF, othr reasn'
 S06Y06B = 'prscrptn flld, MTF:visit MTF, othr reasn'
 S06Y06CO= 'prscrptn flld, MTF:conveniently located'
 S06Y06C = 'prscrptn flld, MTF:conveniently located'
 S06Y06DO= 'prscrptn flld, MTF:prscrptn drugs free'
 S06Y06D = 'prscrptn flld, MTF:prscrptn drugs free'
 S06Y06EO= 'prscrptn flld, MTF:like service'
 S06Y06E = 'prscrptn flld, MTF:like service'
 S06Y06FO= 'prscrptn flld, MTF:doctor recommended'
 S06Y06F = 'prscrptn flld, MTF:doctor recommended'
 S06Y06GO= 'prscrptn flld, MTF:better info/instrctns'
 S06Y06G = 'prscrptn flld, MTF:better info/instrctns'
 S06Y06HO= 'prscrptn flld, MTF:trust fill correctly'
 S06Y06H = 'prscrptn flld, MTF:trust fill correctly'
 S06Y06IO= 'prscrptn flld, MTF:other reason'
 S06Y06I = 'prscrptn flld, MTF:other reason'
 S06Y06JO= 'prscrptn flld, MTF:haven't used MTF phrmcy"
 S06Y06J = 'prscrptn flld, MTF:haven't used MTF phrmcy"
 S06Y17_0= 'In lst 90 dys:filed claims, NNC prscrptn'
 S06Y17 = 'In lst 90 dys:filed claims, NNC prscrptn'
 S06Y18AO= 'claim problems, NNC:none'
 S06Y18A = 'claim problems, NNC:none'
 S06Y18BO= 'claim problems, NNC:instrctn difficult'
 S06Y18B = 'claim problems, NNC:instrctn difficult'
 S06Y18CO= 'claim problems, NNC:dfcult obtaining form'
 S06Y18C = 'claim problems, NNC:dfcult obtaining form'
 S06Y18DO= 'claim problems, NNC:>20 days to process'
 S06Y18D = 'claim problems, NNC:>20 days to process'
 S06Y19AO= 'prscrptn flld, NNC:other hlth insurance'
 S06Y19A = 'prscrptn flld, NNC:other hlth insurance'
 S06Y19BO= 'prscrptn flld, NNC:traveling'
 S06Y19B = 'prscrptn flld, NNC:traveling'
 S06Y19CO= 'prscrptn flld, NNC:not conveniently located'
 S06Y19C = 'prscrptn flld, NNC:not conveniently located'
 S06Y19DO= 'prscrptn flld, NNC:in network?'
 S06Y19D = 'prscrptn flld, NNC:in network?'
 S06Y19EO= 'prscrptn flld, NNC:prefer non-network phrmcy'
 S06Y19E = 'prscrptn flld, NNC:prefer non-network phrmcy'
 S06Y19FO= 'prscrptn flld, NNC:difference unknown'
 S06Y19F = 'prscrptn flld, NNC:difference unknown'
 S06Y19IO= 'prscrptn flld, NNC:other reason'
 S06Y19I = 'prscrptn flld, NNC:other reason'
 S06Y19JO= 'prscrptn flld, NNC:haven't used NNC phrmcy"
 S06Y19J = 'prscrptn flld, NNC:haven't used NNC phrmcy"
 S06Y22_0= 'In lst 90 dys:TMO flld prscrp within 14dys'
 S06Y22 = 'In lst 90 dys:TMO flld prscrp within 14dys'
 S06Y23_0= 'In lst 90 dys:refills, Express Scripts web'
 S06Y23 = 'In lst 90 dys:refills, Express Scripts web'
 S06Y24_0= 'In lst 90 dys:prblm refil, Express Scripts'
 S06Y24 = 'In lst 90 dys:prblm refil, Express Scripts'

S06Y26AO= 'In lst 90 dys:filled MTF prscrptn'

S06Y26A = 'In lst 90 dys:filled MTF prscrptn'
 S06Y26BO= 'In lst 90 dys:filled TMOP prscrptn'
 S06Y26B = 'In lst 90 dys:filled TMOP prscrptn'
 S06Y26CO= 'In lst 90 dys:filled Network civ prscrptn'
 S06Y26C = 'In lst 90 dys:filled Network civ prscrptn'
 S06Y26DO= 'In lst 90 dys:filled Non-Network civ prscrptn'
 S06Y26D = 'In lst 90 dys:filled Non-Network civ prscrptn'

S06Y27AO= 'In lst 90 dys:info got at MTF phrmcy'
 S06Y27A = 'In lst 90 dys:info got at MTF phrmcy'
 S06Y27BO= 'In lst 90 dys:info got at TMOP phrmcy'
 S06Y27B = 'In lst 90 dys:info got at TMOP phrmcy'
 S06Y27CO= 'In lst 90 dys:info got at NC phrmcy'
 S06Y27C = 'In lst 90 dys:info got at NC phrmcy'
 S06Y27DO= 'In lst 90 dys:info got at NNC phrmcy'
 S06Y27D = 'In lst 90 dys:info got at NNC phrmcy'

S06Y28AO= 'Distance traveled, home to MTF phrmcy'
 S06Y28A = 'Distance traveled, home to MTF phrmcy'
 S06Y28BO= 'Distance traveled, home to NC phrmcy'
 S06Y28B = 'Distance traveled, home to NC phrmcy'
 S06Y28CO= 'Distance traveled, home to NNC phrmcy'
 S06Y28C = 'Distance traveled, home to NNC phrmcy'

S06Y29AO= 'In lst 90 dys:wait >30 min for MTF prscrptn'
 S06Y29A = 'In lst 90 dys:wait >30 min MTF prscrptn'
 S06Y29BO= 'In lst 90 dys:wait >30 min NC prscrptn'
 S06Y29B = 'In lst 90 dys:wait >30 min NC prscrptn'
 S06Y29CO= 'In lst 90 dys:wait >30 min NNC prscrptn'
 S06Y29C = 'In lst 90 dys:wait >30 min NNC prscrptn'

S06Y30AO= 'Rate MTF pharmacy used in last 90 days'
 S06Y30A = 'Rate MTF pharmacy used in last 90 days'
 S06Y30BO= 'Rate TMOP pharmacy used in last 90 days'
 S06Y30B = 'Rate TMOP pharmacy used in last 90 days'
 S06Y30CO= 'Rate NC pharmacy used in last 90 days'
 S06Y30C = 'Rate NC pharmacy used in last 90 days'
 S06Y30DO= 'Rate NNC pharmacy used in last 90 days'
 S06Y30D = 'Rate NNC pharmacy used in last 90 days'

S06Y31_O= 'In lst 90 days: Used NC pharmacy'
 S06Y31 = 'In lst 90 days: Used NC pharmacy'

S06Y32AO= 'Rate NC pharmacy claims handling'
 S06Y32A = 'Rate NC pharmacy claims handling'
 S06Y32BO= 'Rate NC pharmacy Customer Service Phn line'
 S06Y32B = 'Rate NC pharmacy Customer Service Phn line'
 S06Y32CO= 'Rate NC pharmacy info from Pharmacist'
 S06Y32C = 'Rate NC pharmacy info from Pharmacist'

S06Y33_O= 'Lst 90 days:flld prscrptn for >90 day med'
 S06Y33 = 'Lst 90 days:flld prscrptn for >90 day med'

S06Y34AO= 'Flld LT civ prscrp:mail ordr phrmcy procss unknwn'
 S06Y34A = 'Flld LT civ prscrp:mail ordr phrmcy procss unknwn'
 S06Y34BO= 'Flld LT civ prscrp:uncmfrtbl gtng drugs by mail'
 S06Y34B = 'Flld LT civ prscrp:uncmfrtbl gtng drugs by mail'
 S06Y34CO= 'Flld LT civ prscrp:civ phrmcy convenient'
 S06Y34C = 'Flld LT civ prscrp:civ phrmcy convenient'
 S06Y34DO= 'Flld LT civ prscrp:med unavlbl-mail ordr phrmcy'
 S06Y34D = 'Flld LT civ prscrp:med unavlbl-mail ordr phrmcy'
 S06Y34EO= 'Flld LT civ prscrp:like civ phrmcy service'
 S06Y34E = 'Flld LT civ prscrp:like civ phrmcy service'
 S06Y34FO= 'Flld LT civ prscrp:civ phrmcy info better'
 S06Y34F = 'Flld LT civ prscrp:civ phrmcy info better'
 S06Y34GO= 'Flld LT civ prscrp:med unavlbl-MTF phrmcy'
 S06Y34G = 'Flld LT civ prscrp:med unavlbl-MTF phrmcy'
 S06Y34HO= 'Flld LT civ prscrp:civ prscrptn flld correctly'
 S06Y34H = 'Flld LT civ prscrp:civ prscrptn flld correctly'
 S06Y34IO= 'Flld LT civ prscrp:No MTF phrmcy near'
 S06Y34I = 'Flld LT civ prscrp:No MTF phrmcy near'
 S06Y34JO= 'Flld LT civ prscrp:Other reasons'
 S06Y34J = 'Flld LT civ prscrp:Other reasons'

S06Y35_O='Lst 90 days:used TRICARE mail order phrmcy'
 S06Y35 = 'Lst 90 days:used TRICARE mail order phrmcy'

 S06Y36AO='TMOP info from:TRICARE website'
 S06Y36A = 'TMOP info from:TRICARE website'
 S06Y36BO='TMOP info from:Internet not TRICARE website'
 S06Y36B = 'TMOP info from:Internet not TRICARE website'
 S06Y36CO='TMOP info from:Mailings'
 S06Y36C = 'TMOP info from:Mailings'
 S06Y36DO='TMOP info from:MTF pharmacy'
 S06Y36D = 'TMOP info from:MTF pharmacy'
 S06Y36EO='TMOP info from:Military publications/periodicals'
 S06Y36E = 'TMOP info from:Military publications/periodicals'
 S06Y36FO='TMOP info from:Friend/Friends'
 S06Y36F = 'TMOP info from:Friend/Friends'
 S06Y36GO='TMOP info from:Another source'
 S06Y36G = 'TMOP info from:Another source'
 S06Y36HO='TMOP info from:None in last 12 months'
 S06Y36H = 'TMOP info from:None in last 12 months'
 S06Y36IO='TMOP info from:Nothing known about TMOP'
 S06Y36I = 'TMOP info from:Nothing known about TMOP'

 S06Y37AO="Did not use TMOP:didn't know I could"
 S06Y37A = "Did not use TMOP:didn't know I could"
 S06Y37BO="Did not use TMOP:didn't know how"
 S06Y37B = "Did not use TMOP:didn't know how"
 S06Y37CO='Did not use TMOP:costs too much'
 S06Y37C = 'Did not use TMOP:costs too much'
 S06Y37DO='Did not use TMOP:uncmfrtbl gtng drugs by mail'
 S06Y37D = 'Did not use TMOP:uncmfrtbl gtng drugs by mail'
 S06Y37EO='Did not use TMOP:med unavlbl-mail ordr phrmcy'
 S06Y37E = 'Did not use TMOP:med unavlbl-mail ordr phrmcy'
 S06Y37FO='Did not use TMOP:difficult to use'
 S06Y37F = 'Did not use TMOP:difficult to use'
 S06Y37GO='Did not use TMOP:civ phrmcy convenient'
 S06Y37G = 'Did not use TMOP:civ phrmcy convenient'
 S06Y37HO='Did not use TMOP:civ prscrptn flld correctly'
 S06Y37H = 'Did not use TMOP:civ prscrptn flld correctly'
 S06Y37IO='Did not use TMOP:civ phrmcy info better'
 S06Y37I = 'Did not use TMOP:civ phrmcy info better'
 S06Y37JO='Did not use TMOP:MTF pharmacy convenient'
 S06Y37J = 'Did not use TMOP:MTF pharmacy convenient'
 S06Y37KO='Did not use TMOP:MTF prscrptn flld correctly'
 S06Y37K = 'Did not use TMOP:MTF prscrptn flld correctly'
 S06Y37LO='Did not use TMOP:MTF pharmacy info better'
 S06Y37L = 'Did not use TMOP:MTF pharmacy info better'
 S06Y37MO='Did not use TMOP:Need prscrptn flld immediately'
 S06Y37M = 'Did not use TMOP:Need prscrptn flld immediately'
 S06Y37NO='Did not use TMOP:Other reasons'
 S06Y37N = 'Did not use TMOP:Other reasons'

 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"
 N9 = "Coding Scheme Note 9"
 N10= "Coding Scheme Note 10"
 N10H= "Coding Scheme Note 10H"
 N10I= "Coding Scheme Note 10I"
 N10J= "Coding Scheme Note 10J"
 N10K= "Coding Scheme Note 10K"
 N10L= "Coding Scheme Note 10L"
 N10M= "Coding Scheme Note 10M"
 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"

N18A= "Coding Scheme Note 18A"
N18B= "Coding Scheme Note 18B"
N19 = "Coding Scheme Note 19"
N20 = "Coding Scheme Note 20"

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.3 Q4FY2006\PROGRAMS\WEIGHTING\SELECTQ.SAS - CREATE RECORD SELECTION FLAG FOR RECORD SELECTION.

```

*****
*
* PROGRAM:   SELECTQ.SAS
* TASK:     QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* 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 ineligibles (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.
*           4) 03/16/2006 BY JACQUELINE AGUFA, Updated for the 2006 survey.
*
* INPUTS:   1) CSCHM06Q.SD2 - 2006 Quarterly DOD Health Survey Data
*
* OUTPUTS:  1) SELECTQ.SD2 - 2006 Quarterly DOD Health Survey Data w/FNSTATUS
*
*****
*
LIBNAME IN      V612 "..\..\DATA\AFINAL";
LIBNAME OUT     V612 "..\..\DATA\AFINAL";
LIBNAME LIBRARY V612 "..\..\DATA\AFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

PROC SORT DATA=IN.CSCHM06Q OUT=TEMPA1; BY MPRID; RUN;

DATA TEMPA2 OUT.DUPSA;
  SET TEMPAL;
  BY MPRID;
  /*****
  /** KEY VARIABLES (Total=27)
  *****/
  /*****
  ARRAY KEYVAR H06006 H06008 H06009 H06010 H06011 H06012
                H06014 H06015 H06016 H06017 H06018 H06019 H06021 H06024
                H06025 H06027 H06030 H06037 H06038 H06042 H06044 H06046
                H06048 H06066 SREDA H06070
                ;

  ARRAY RACE(5) SRRACEA SRRACEB SRRACEC SRRACED SRRACEE;

  FLAGRACE = 0; DROP FLAGRACE;
  DO I = 1 TO DIM(RACE);
    IF RACE(I) EQ 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 13 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;
END;

IF DUPFLAG = 'YES' THEN OUTPUT OUT.DUPSA;
ELSE OUTPUT TEMPA2;

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 TEMPA2 DEDUPED;
LABEL FNSTATUS = "Final Status"
      DUPFLAG = "Multiple Response Indicator"
      STRATUM = "Sampling STRATUM"
      KEYCOUNT = "# Key Questions Answered (Out of 27)"
;
RUN;

TITLE1 "Quarterly DOD Health Survey FNSTATUS assignment (6077-300)";
TITLE2 "Program Name: SELECTQ.SAS By Keith Rathbun";
TITLE3 "Program Output: SELECTQ.SD2";

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 Q4FY2006\PROGRAMS\CONSTRUCT\CONVARQ.SAS - CONSTRUCT VARIABLES FOR ANALYSIS.

```

*****
* 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
*
* PURPOSE: TO CREATE INDEPENDENT VARIABLES: XENRLLMT, XENR_PCM, XINS_COV,
*
* XBNFGRP
*
* TO CREATE DEPENDENT VARIABLES: KDIENRNL, 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, KBRSTCR, HP_SMOKH, HP_CESS, HP_OBESE
*
* TO CREATE OUTCATCH, RECODE LEGDDSCD
* INPUT: .....\DATA\AFINAL\SELECTQ.SD2
* OUTPUT: .....\DATA\AFINAL\CONVARQ.SD2
*
* INCLUDES: 1) CONSVAR0.SAS - Construct XREGION, XTNEXREG and CONUS based on CACSMPL.
*****;

LIBNAME IN V612 '.....\DATA\AFINAL';
LIBNAME LIBRARY V612 '.....\DATA\AFINAL\FMTLIB';

OPTIONS PS=78 LS=256 ERRORS=2 NOCENTER ;

TITLE1 'FY 2006 Quarter 3 Health Care Survey of DoD Beneficiaries Study - Adult Form A';
TITLE2 'CREATE CONSTRUCTED & OUTCOME MEASURE VARIABLES';

DATA IN.CONVARQ(KEEP=XENRLLMT XENR_PCM XINS_COV /*XQENROLL*/
                XREGION XTNEXREG CONUS
                ENBGSMPL XBNFGRP XOCONUS
                /*KDIENRNL*/ KMILOFFC KCIVOFFC KBGPRB1 KBGPRB2
                KMILOPQY KCIVOPQY HP_PRNTL HP_MAMOG HP_MAM50 HP_PAP HP_BP HP_FLU
                /*HP_PROS*/
                MPRID KCIVINS /*HP_GP HP_CHOL HP_BRST*/ HP_SMOKE /*KPRSCPTN KBRSTCR */
                OUTCATCH LEGDDSCD HP_SMOKH /*HP_CESS*/ HP_CESH /*HP_NORM*/ HP_OBESE
                XBMI XBMICAT)
    CONVARQ;
SET IN.SELECTQ(RENAME=(CACSMPL=XCACSMPL)); *LLU 2/9/05;

*****
* Construct XREGION, XTNEXREG and CONUS.
*****;

/*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.
      CONUS    3.
      XBMI     8.
      XBMICAT  3.
      XOCONUS  3.;

LABEL
XENRLLMT = "Enrollment in TRICARE Prime"
XENR_PCM = "Enrollment by PCM type"
XINS_COV = "Insurance Coverage"
/*XQENROLL = "Enrllmnt accordng to questionre rspnse"*/
XBNFGRP = "Constructed Beneficiary Group"
/*KDISENRL = "Intention to disenroll " */
KMILOFFC = "Office wait of more than 15 min-Mil"
KCIVOFFC = "Office wait of more than 15 min-Civ"
KBGPRB1 = "Big problem getting referrals to spclst"
KBGPRB2 = "Big problem getting necessary care"
KMILOPQY = "Outpat. visits-use Military fcilty most"
KCIVOPQY = "Outpat. visits-use Civilian fcilty most"
HP_PRNTL = "Prgrt 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"
KCIIVINS = "Beneficiary coverd by civilian insurance"
/* KBRSTCR = "Women 40>= ever had mammogram" */
/*KPRSCPTN = "6 or > civ prscrptns filled by mil phmcy"*/
/*HP_PROS = "Men 50>=, prostrate exam in lst 12 mnths"*/
/*HP_GP = "General physical exam in last 12 mnths"*/
/*HP_CHOL = "Cholesterol screening in last 5 yrs"*/
/*HP_BRST = "Women >=40, breast exam in last 12 mnths"*/
OUTCATCH = "Out of catchment area indicator"
HP_SMOKH = "Smoker under HEDIS definition"
/*HP_CESS = "Had smoking cessation counseling"*/
HP_CESH = "Had smoking cessation counseling - HEDIS"
XREGION = "XREGION - Region"
XTNEXREG = "TNEX Region"
CONUS = "CONUS - CONUS/OCONUS Indicator"
XBMI = "Body Mass Index"
XBMICAT = "Body Mass Index Category"
/* HP_NORM = "1=(normal BMI), 2=(abnormal BMI)" */
HP_OBESE = "Obese/Morbidly obese"
XOCONUS = "Overseas Europe/Pacific/Latin Indicator"
;

FORMAT
XENRLLMT ENROLL.
XENR_PCM PCM.
XINS_COV INSURE.
/*XQENROLL PCM.*/
XBNFGRP XBGC_S.
/*KDISENRL HAYNN.*/
KMILOFFC HAYNN.
KCIVOFFC HAYNN.
KBGPRB1 HAYNN.
KBGPRB2 HAYNN.
KMILOPQY HAGRID.
KCIVOPQY HAGRID.
/*KPRSCPTN HAYNN.*/
HP_PRNTL PRNTL.
HP_MAMOG HAYNN.

```

```

    HP_MAM50      HAYNN.
/*   HP_NORM      HAYNN. */
    HP_OBESE     HAYNN.
    HP_PAP       HAYNN.
    HP_BP        HAYNN2_.
    HP_FLU       HAYNN.
/*   HP_PROS     HAYNN.*/
/*   HP_GP       HAYNN.*/
/*   HP_CHOL     HAYNN.*/
    HP_SMOKE     HAYNN.
/*   HP_BRST    HAYNN.*/
    KCIVINS     HAYNN2_.
/*   KBRSTCR    HAYNN. */
    OUTCATCH    OCATCH.
    LEGDDSCD    $DDSFMT.
    HP_SMOKH    SMOKE.
/*   HP_CESS    SMOKE. */
    HP_CESH     SMOKE.
    ENBGSMPL    $ENBGS.
    XREGION     CREG.
    XTNEXREG    TNEX.
    CONUS       CONUSMHS.
    XBMICAT     XBMICAT.
    XOCONUS     XOCONUS.
;

/* CREATE INDEPENDENT VARIABLES */

/* XENRLLMT--ENROLLMENT STATUS */
IF ENBGSMPL ^= "b" THEN DO;
IF 18 <= 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) 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;

/* XENR_PCM--ENROLLMENT BY PCM TYPE */
IF 18 <= 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) 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 18 <= INPUT(FIELDAGE,8.) < 65 AND H06006 IN (1) THEN XINS_COV = 2; /* Prime <65-Non-active Duty */
ELSE IF H06006 = 3 THEN XINS_COV = 3; /* Standard/Extra */
ELSE IF H06006 = 11 THEN XINS_COV = 7; /* Plus and Medicare */
ELSE IF H06006 = 4 THEN XINS_COV = 4; /* Medicare*/
ELSE IF H06006 IN (5,6, 7, 8, 9) THEN XINS_COV = 5; /* Other civilian health insurance*/
ELSE IF H06006 = 10 THEN XINS_COV = 8; /* Veterans Administration (VA) */
ELSE IF (INPUT(FIELDAGE,8.)>= 65 AND XENRLLMT = 5 and H06006 = 1) THEN XINS_COV = 6; /* Prime, >= 65 */
ELSE IF H06003=1 AND H06004=1 AND H06006 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;
ELSE IF INPUT(ENBGSMPL,8.) IN (2, 3, 4) THEN XBNFGRP = 2;
ELSE IF INPUT(ENBGSMPL,8.) IN (5, 6, 7) THEN XBNFGRP = 3;
ELSE IF INPUT(ENBGSMPL,8.) IN (8, 9, 10) THEN XBNFGRP = 4;
END;

/* CREATE DEPENDENT VARIABLES */

/* KDISENRL--INTENTION TO DISNEROLL */
/*IF H06049 IN (4, 5) THEN KDISENRL = 1; */ /* Yes */
/* ELSE IF H06049 IN (1, 2, 3, .D) THEN KDISENRL = 2;*/ /* No */

/* KMILOFFC--OFFICE WAIT OF MORE THAN 15 MINUTES AT MILITARY FACILITES
KCIVOFFC--OFFICE WAIT OF MORE THAN 15 MINUTES AT CIVILIAN FACILITES */
IF H06038 = 1 THEN DO; /* Military */
IF H06030 IN (1,2) THEN KMILOFFC = 1; /* Yes */
ELSE IF H06030 IN (3,4) THEN KMILOFFC = 2; /* No */
END;
ELSE IF H06038 IN (2, 3, 4) THEN DO; /* Civilian */
IF H06030 IN (1,2) THEN KCIVOFFC = 1; /* Yes */
ELSE IF H06030 IN (3,4) THEN KCIVOFFC = 2; /* No */
END;

/* KBGPRB1--BIG PROBLEM GETTING REFERRALS TO SPECIALISTS */
IF H06013 = 1 THEN KBGPRB1 = 1; /* YES */
ELSE IF H06013 IN (2,3) THEN KBGPRB1 = 2; /* NO */

/* KBGPRB2--BIG PROBLEM GETTING NECESSARY CARE */
IF H06027 = 1 THEN KBGPRB2 = 1; /* YES */
ELSE IF H06027 IN (2,3) THEN KBGPRB2 = 2; /* NO */

/* KMILOPQY--OUTPATIENT VISITS TO MILITARY FACILITY
KCIVOPQY--OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF H06038 = 1 THEN DO;
KMILOPQY=H06025;
KCIVOPQY=1;
END;
ELSE IF H06038 IN (2, 3, 4) THEN DO;
KCIVOPQY=H06025;
KMILOPQY=1;
END;
ELSE IF H06038 = 5 THEN DO;
KMILOPQY=1;
KCIVOPQY=1;
END;

/* KPRSCPTN--6 OR MORE CIVILIAN PRESCRIPTIONS FILLED BY MILITARY PHARMACY */
/* H04037 NOT IN Q3 2003 QUESTIONNAIRE */
/*IF H04037 IN (3,4,5) THEN KPRSCPTN = 1;*/ /* YES */
/* ELSE IF H04037 IN (1,2) THEN KPRSCPTN = 2; */ /* NO */

/* HP_PRNTL--IF PREGNANT LAST YEAR, RECEIVED PRENATAL CARE IN 1ST TRIMESTER */
IF H06063 IN (1,2) THEN DO; /* Pregnant in last 12 months */
*/
IF H06065 = 4 THEN HP_PRNTL = 1; /* Yes */
ELSE IF (H06064 = 1 AND H06065 = 1) THEN HP_PRNTL = .; /* <3 months pregnant now */
ELSE IF H06065 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 H06061 IN (5, 4) THEN HP_MAMOG = 1; /* Yes */
ELSE IF H06061 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 H06061 IN (5, 4) THEN HP_MAM50 = 1;          /* Yes */
        ELSE IF H06061 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 H06059 IN (4, 5) THEN HP_PAP = 1;          /* Yes */
    ELSE IF H06059 IN (1, 2, 3) THEN HP_PAP = 2;  /* No */
END;

/* HP_BP--HAD BLOOD PRESSURE SCREENING IN LAST 2 YEARS AND KNOW RESULT */
IF H06049 IN (2,3) AND H06050 IN (1,2) THEN HP_BP = 1; /* Yes */
    ELSE IF H06049 = 1 THEN HP_BP = 2;          /* No */
    ELSE IF H06049 < 0 OR H06050 < 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 H06051 = 4 THEN HP_FLU = 1;          /* Yes */
    ELSE IF H06051 IN (1, 2, 3) THEN HP_FLU = 2; /* No */
END;

/* HP_PROS--FOR MEN AGE 50 AND OVER, HAD PROSTRATE EXAM W/IN PAST 12 MONTHS */
/* NOT IN Q1 2005*/
IF XSEXA = 1 AND INPUT(FIELDAGE,8.) >= 50 THEN DO;
    IF H04067 = 5 THEN HP_PROS = 1;          * Yes;
    ELSE IF H04067 IN (1, 2, 3, 4) THEN HP_PROS = 2; * No;
END; */

/* HP_GP--EXCEPT WHEN SICK OR PREGNANT, GENERAL PHYSICAL EXAM W/IN PAST 12 MONTHS */
/* REMOVED Q2 2003 BECAUSE H04054 NOT ON QUESTIONNAIRE */
/*IF H04054 = 5 THEN HP_GP = 1;*/          /* Yes */
/* ELSE IF H04054 IN (1, 2, 3, 4) THEN HP_GP = 2;*/ /* No */

/* HP_CHOL--HAD CHOLESTEROL SCREENING IN PAST 5 YEARS */
/* NOT IN Q1 2005*/
/*IF H04058 IN (3, 4, 5) THEN HP_CHOL = 1;          *Yes;
    ELSE IF H04058 IN (1, 2) THEN HP_CHOL = 2;          *No;
*/

/* HP_SMOKE--ADVISED TO QUIT SMOKING IN PAST 12 MONTHS */
IF H06055 IN (2, 3, 4, 5) THEN HP_SMOKE = 1; /* Yes */
    ELSE IF H06055 = 1 THEN HP_SMOKE = 2; /* No */

/* HP_BRST--BREAST EXAM IN PAST 12 MONTHS */
/* NOT IN Q1 2005*/
/*IF XSEXA=2 AND INPUT(FIELDAGE,8.) >= 40 THEN DO;
    IF H04071 = 5 THEN HP_BRST = 1;          *Yes;
    ELSE IF H04071 IN (1, 2, 3, 4) THEN HP_BRST = 2; *No;
END;*/

/* KCIVINS--IS BENEFICIARY COVERED BY PRIVATE CIVILIAN INSURANCE */
IF H06002G=1 OR H06002I=1 OR H06002J=1 THEN KCIVINS=1; /* YES */ /*NJ_Q2*/
    ELSE KCIVINS=2; /* NO */

/* KBRSTCR--WOMEN 40>=, EVER HAD MAMMOGRAM & EVER HAD BREAST EXAM */
/*BREAST EXAM IS NOT IN Q1 2005*/
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 40 THEN DO;
    IF (H06061 IN (5, 4, 3, 2) /*AND H04071 IN (5, 4, 3, 2)*/) THEN KBRSTCR = 1; /* Yes */
    ELSE IF (H06061 = 1 /*OR H04071=1*/) THEN KBRSTCR = 2; /* No */
END;

/* 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. */
IF H06052 IN (1,2) THEN DO;
    IF H06052=1 AND (H06053=3 OR H06053=4 OR (H06053=2 AND H06054=3)) THEN HP_SMOKH=1; /* Yes */
    ELSE IF H06052=2 OR H06053 > 0 THEN HP_SMOKH=2; /* No */
END;
/* Mar 8th 2005, JMA Replace HP_CESS with HP_CESH */
/*

```

```

IF HP_SMOKH=1 AND H06025>1 AND H06055>0 THEN DO;
  IF H06055>1 THEN HP_CESS=1;          * Yes *;
  ELSE HP_CESS=2;                      * No  *;
END;
*/

if hp_smokh=1 & h06055>0 then do;
  if h06055>1 then hp_cesh=1; /* Yes */
  else hp_cesh=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 */

*****
* Collapse/Recode the DEERS dependent suffix for each possible range of values
*****
IF "01" LE LEGDDSCD LE "19" THEN LEGDDSCD = "01"; * 01-19 = 'Dependent Child';
ELSE IF "30" LE LEGDDSCD LE "39" THEN LEGDDSCD = "30"; * 30-39 = 'Spouse of Sponsor';
ELSE IF "40" LE LEGDDSCD LE "44" THEN LEGDDSCD = "40"; * 40-44 = 'Mother of Sponsor';
ELSE IF "45" LE LEGDDSCD LE "49" THEN LEGDDSCD = "45"; * 45-49 = 'Father of Sponsor';
ELSE IF "50" LE LEGDDSCD LE "54" THEN LEGDDSCD = "50"; * 50-54 = 'Mother in law of Sponsor';
ELSE IF "55" LE LEGDDSCD LE "59" THEN LEGDDSCD = "55"; * 55-59 = 'Father in law of Sponsor';
ELSE IF "60" LE LEGDDSCD LE "69" THEN LEGDDSCD = "60"; * 60-69 = 'Chidren where # > 19';

*****
* 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 H06068F IN (.A,.O,.I,.B) THEN TSRHGTF=.; ELSE TSRHGTF=H06068F;
IF H06068I IN (.A,.O,.I,.B) THEN TSRHGTI=.; ELSE TSRHGTI=H06068I;
IF H06069 IN (.A,.O,.I,.B) THEN TSRWGT=.; ELSE TSRWGT=H06069;

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;

IF XSEXA = 2 THEN DO;
  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;
END;
ELSE DO;
  IF XBMI = . THEN XBMICAT=.;
  ELSE IF XBMI < 19.5 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;
END;

/*ADD HP_NORM VARIABLE. LLU 5/6/2005*/

/*
IF XBMICAT=. THEN HP_NORM=.;

```

```

ELSE IF XBMICAT=2 THEN HP_NORM=1;      *NORMAL BMI;
ELSE HP_NORM=2;                        *ABNORMAL BMI;
*/

/*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;

RUN;

DATA CONVARQ2;
  SET CONVARQ;
  WHERE FNSTATUS=11;
RUN;

/* CHECK RECONSTRUCTED 2006 VARIABLES */
PROC FREQ DATA=CONVARQ2;
  TABLES XENRLLMT XENR_PCM XINS_COV /*XQENROLL*/ XREGION XTNEXREG
  XBMICAT ENBGSMP L XBNFGRP
  /* KDISENRL*/ KMILOFFC KCIVOFFC KBGPRB1 KBGPRB2
  KMILOPQY KCIVOPQY HP_PRNTL HP_MAMOG HP_MAM50 HP_PAP HP_BP HP_FLU KBRSTCR
  /*HP_PROS*HP_GP HP_CHOL*/ HP_SMOKE /*HP_BRST*/ KCIVINS /*KPRSCPTN*/ OUTCATCH LEGDDSCD
  HP_SMOKH /*HP_CESS*/ HP_CESH XBMI HP_OBESE XOCONUS
  / MISSING LIST;
  TITLE3 'ONE WAY FREQUENCIES ON 2006 RECONSTRUCTED VARIABLES';
RUN;

/* CROSSTABS TO CHECK RECONSTRUCTION OF 2006 VARIABLES */
/* COLLAPSE AGE FOR CROSSTABS */
PROC FORMAT;
  VALUE $AGE
    "018" -< "065" = "LESS THAN 65"
    "065" -< "120" = "65 OR OLDER"
    "0"          = "Out of range err"
    " "          = "Missing/unknown" ;

RUN;

PROC FREQ DATA=CONVARQ2;
  TABLES FIELDAGE*ENBGSMP L*XENRLLMT
  FIELDAGE*ENBGSMP L*XENR_PCM
  FIELDAGE*XENRLLMT*H06006*H06003*H06004*XINS_COV
  XTNEXREG*XREGION*CACSMP L
  XREGION*CONUS
  FIELDAGE*ENBGSMP L*XBNFGRP
  /* H06049*KDISENRL*/
  H06038*H06030*KMILOFFC*KCIVOFFC
  H06013*KBGPRB1
  H06027*KBGPRB2
  H06038*H06025*KMILOPQY
  H06038*H06025*KCIVOPQY
  /*H04037*KPRSCPTN*/
  H06063*H06064*H06065*HP_PRNTL
  XSEXA*H06059*HP_PAP
  H06049*H06050*HP_BP
  FIELDAGE*H06051*HP_FLU
  /*H04054*HP_GP*/
  /*H04058*HP_CHOL*/
  H06055*HP_SMOKE
  H06002I*H06002J*H06002G*KCIVINS
  OUTCATCH*CACSMP L
  H06052*H06053*H06054*HP_SMOKH
  /*HP_SMOKH*H06025*H06055*HP_CESS*/
  HP_SMOKH*H06055*HP_CESH
  H06068F*H06068I*H06069*XBMI
  XBMICAT*HP_OBESE
  XREGION*XOCONUS*CONUS
  / MISSING LIST;
  FORMAT XSEXA HASEX. FIELDAGE $AGE.

```

```

                XBMICAT XBMICAT.
                ;
TITLE3 'CROSSTABS ON NEW VARIABLES';
RUN;

PROC FREQ DATA=CONVARQ2;
  tables XTNEXREG*XREGION*CACSMPL
  / MISSING LIST;
run;

/* COLLAPSE FOR MAMMOGRAPHY, BREAST CANCER, AND PROSTRATE XTABS*/
PROC FORMAT;
  VALUE $AGE2_
    "018" - "049" = "LESS THAN 50"
    "050" -< "120" = "50 OR OLDER"
    "0"      = "Out of range err"
    " "     = "Missing/unknown" ;

  VALUE $AGE3_
    "018" - "039" = "LESS THAN 40"
    "040" -< "120" = "40 OR OLDER"
    "0"      = "Out of range err"
    " "     = "Missing/unknown" ;
RUN ;

PROC FREQ DATA=CONVARQ2;
  TABLES XSEX*A*FIELDAGE*H06061*HP_MAM50
  /* XSEX*A*FIELDAGE*H06067*HP_PROS */
  /MISSING LIST;
  FORMAT FIELDAGE $AGE2_. XSEX* HASEX.;
RUN;

PROC FREQ DATA=CONVARQ2;
  TABLES XSEX*A*FIELDAGE*H06061*HP_MAMOG
  /*XSEX*A*FIELDAGE*H06063*H04071*KBRSTCR*/
  /*FIELDAGE*XSEX*A*H06071*HP_BRST*/
  /MISSING LIST;
  FORMAT FIELDAGE $AGE3_. XSEX* HASEX.;
RUN;

PROC CONTENTS DATA=IN.CONVARQ;
RUN;

```

F.4.B Q4FY2006\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
*
* 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 ) 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 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;
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.
*****;
IF      XREGION IN (1,2,3,4,5,6,7,8,9,10,11,12,16) THEN CONUS=1;
ELSE IF XREGION IN (13,14,15)                THEN CONUS=0;
ELSE IF XREGION = .                          THEN CONUS=. ;

*****
* 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;

*****
* 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;

```

F.5.A Q4FY2006\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
*
* 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.SD2
* INPUT: ..\..\DATA\AFINAL\CONVARQ.SD2
* INPUT: ..\..\DATA\AFINAL\CONVARSF.SD2
* OUTPUT: ..\..\DATA\AFINAL\MERGEQ.SD2
* INCLUDE: SERVAFF.SAS
* TO MERGE ON VARIABLE SERVAFF
*****
* ;
LIBNAME IN1 V612 '..\..\DATA\AFINAL';
LIBNAME OUT V612 '..\..\DATA\AFINAL';
LIBNAME LIBRARY V612 '..\..\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 =
```

```
H06001_O  
H06002AO  
H06002CO  
H06002FO  
H06002GO  
H06002HO  
H06002IO  
H06002JO  
H06002KO  
H06002LO  
H06002MO  
H06002NO  
H06002OO  
H06002PO  
H06002QO  
H06003_O  
H06004_O  
H06005_O  
H06006_O  
H06007_O  
H06008_O  
H06009_O  
H06010_O  
H06011_O  
H06012_O  
H06013_O  
H06014_O  
H06015_O  
H06016_O  
H06017_O  
H06018_O  
H06019_O  
H06020_O  
H06021_O  
H06022_O  
H06023_O  
H06024_O  
H06025_O  
H06026_O  
H06027_O  
H06028_O  
H06029_O  
H06030_O  
H06031_O  
H06032_O  
H06033_O  
H06034_O  
H06035_O  
H06036_O  
H06037_O  
H06038_O  
H06039_O  
H06040_O  
H06041_O  
H06042_O  
H06043_O
```

H06044_O
H06045_O
H06046_O
H06047_O
H06048_O
H06049_O
H06050_O
H06051_O
H06052_O
H06053_O
H06054_O
H06055_O
H06056_O
H06057_O
H06058_O
H06059_O
H06060_O
H06061_O
H06063_O
H06064_O
H06065_O
H06066_O
H06067_O
H06068FO
H06068IO
H06069_O

H06068FN
H06068IN
H06069N

H06070_O
H06070AO
H06070BO
H06070CO
H06070DO
H06070EO

S06Y26A1
S06Y26A2
S06Y26A3
S06Y26A4
S06Y26A5
S06Y26B1
S06Y26B2
S06Y26B3
S06Y26B4
S06Y26B5
S06Y26C1
S06Y26C2
S06Y26C3
S06Y26C4
S06Y26C5
S06Y26D1
S06Y26D2
S06Y26D3
S06Y26D4
S06Y26D5
S06Y27A1
S06Y27A2
S06Y27A3
S06Y27A4
S06Y27A5
S06Y27B1
S06Y27B2
S06Y27B3
S06Y27B4
S06Y27B5
S06Y27C1
S06Y27C2
S06Y27C3
S06Y27C4

S06Y27C5
S06Y27D1
S06Y27D2
S06Y27D3
S06Y27D4
S06Y27D5

S06Y01_O
S06Y17_O
S06Y22_O
S06Y23_O
S06Y24_O
S06Y31_O
S06Y33_O
S06Y35_O
S06Y06AO
S06Y06BO
S06Y06CO
S06Y06DO
S06Y06EO
S06Y06FO
S06Y06GO
S06Y06HO
S06Y06IO
S06Y06JO
S06Y18AO
S06Y18BO
S06Y18CO
S06Y18DO
S06Y19AO
S06Y19BO
S06Y19CO
S06Y19DO
S06Y19EO
S06Y19FO
S06Y19IO
S06Y19JO
S06Y26AO
S06Y26BO
S06Y26CO
S06Y26DO
S06Y27AO
S06Y27BO
S06Y27CO
S06Y27DO
S06Y28AO
S06Y28BO
S06Y28CO
S06Y29AO
S06Y29BO
S06Y29CO
S06Y30AO
S06Y30BO
S06Y30CO
S06Y30DO
S06Y32AO
S06Y32BO
S06Y32CO
S06Y34AO
S06Y34BO
S06Y34CO
S06Y34DO
S06Y34EO
S06Y34FO
S06Y34GO
S06Y34HO
S06Y34IO
S06Y34JO
S06Y36AO
S06Y36BO
S06Y36CO
S06Y36DO
S06Y36EO

S06Y36FO
S06Y36GO
S06Y36HO
S06Y36IO
S06Y37AO
S06Y37BO
S06Y37CO
S06Y37DO
S06Y37EO
S06Y37FO
S06Y37GO
S06Y37HO
S06Y37IO
S06Y37JO
S06Y37KO
S06Y37LO
S06Y37MO
S06Y37NO

SREDA_O
SRRACEAO
SRRACEBO
SRRACECO
SRRACEDO
SRRACEEO
SRAGE_O

PRRECFLG

E1-E23
);

```
MERGE SELECTQ(in=hcsdb rename=(flag_fin=dummy CACSMPL=XCACSMPL))
  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;
```

```
/*CHANGE CACSMPL TO BE NUMERIC*/
CACSMPL = INPUT(XCACSMPL,8.);    /*LLU 2/9/05*/
DROP XCACSMPL;
```

FORMAT

```
SERVAFF  $SERVAFF.
ENBGSMP  $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.

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"
;

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 */
LEGDDSCD   $ 2         /* DEERS variable */
DAGEQY     $ 3         /* DEERS variable */
FIELDAGE   $ 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	*/
PNLCATCD	\$ 1	/* DEERS variable	*/

H06001	4	/* questionnaire	*/
H06002A	4	/* questionnaire	*/
H06002C	4	/* questionnaire	*/
H06002F	4	/* questionnaire	*/
H06002G	4	/* questionnaire	*/
H06002H	4	/* questionnaire	*/
H06002I	4	/* questionnaire	*/
H06002J	4	/* questionnaire	*/
H06002K	4	/* questionnaire	*/
H06002L	4	/* questionnaire	*/
H06002M	4	/* questionnaire	*/
H06002N	4	/* questionnaire	*/
H06002O	4	/* questionnaire	*/
H06002P	4	/* questionnaire	*/
H06002Q	4	/* questionnaire	*/
H06003	4	/* questionnaire	*/
H06004	4	/* questionnaire	*/
H06005	4	/* questionnaire	*/
H06006	4	/* questionnaire	*/
H06007	4	/* questionnaire	*/
H06008	4	/* questionnaire	*/
H06009	4	/* questionnaire	*/
H06010	4	/* questionnaire	*/
H06011	4	/* questionnaire	*/
H06012	4	/* questionnaire	*/
H06013	4	/* questionnaire	*/
H06014	4	/* questionnaire	*/
H06015	4	/* questionnaire	*/
H06016	4	/* questionnaire	*/
H06017	4	/* questionnaire	*/
H06018	4	/* questionnaire	*/
H06019	4	/* questionnaire	*/
H06020	4	/* questionnaire	*/
H06021	4	/* questionnaire	*/
H06022	4	/* questionnaire	*/
H06023	4	/* questionnaire	*/
H06024	4	/* questionnaire	*/
H06025	4	/* questionnaire	*/
H06026	4	/* questionnaire	*/
H06027	4	/* questionnaire	*/
H06028	4	/* questionnaire	*/
H06029	4	/* questionnaire	*/
H06030	4	/* questionnaire	*/
H06031	4	/* questionnaire	*/
H06032	4	/* questionnaire	*/
H06033	4	/* questionnaire	*/
H06034	4	/* questionnaire	*/
H06035	4	/* questionnaire	*/
H06036	4	/* questionnaire	*/
H06037	4	/* questionnaire	*/
H06038	4	/* questionnaire	*/
H06039	4	/* questionnaire	*/
H06040	4	/* questionnaire	*/
H06041	4	/* questionnaire	*/
H06042	4	/* questionnaire	*/
H06043	4	/* questionnaire	*/
H06044	4	/* questionnaire	*/
H06045	4	/* questionnaire	*/
H06046	4	/* questionnaire	*/
H06047	4	/* questionnaire	*/
H06048	4	/* questionnaire	*/
H06049	4	/* questionnaire	*/

H06050	4	/* questionnaire	*/
H06051	4	/* questionnaire	*/
H06052	4	/* questionnaire	*/
H06053	4	/* questionnaire	*/
H06054	4	/* questionnaire	*/
H06055	4	/* questionnaire	*/
H06056	4	/* questionnaire	*/
H06057	4	/* questionnaire	*/
H06058	4	/* questionnaire	*/
H06059	4	/* questionnaire	*/
H06060	4	/* questionnaire	*/
H06061	4	/* questionnaire	*/
H06063	4	/* questionnaire	*/
H06064	4	/* questionnaire	*/
H06065	4	/* questionnaire	*/
H06066	4	/* questionnaire	*/
H06067	4	/* questionnaire	*/
H06068F	4	/* questionnaire	*/
H06068I	4	/* questionnaire	*/
H06069	4	/* questionnaire	*/
H06070	4	/* questionnaire	*/
H06070A	4	/* questionnaire	*/
H06070B	4	/* questionnaire	*/
H06070C	4	/* questionnaire	*/
H06070D	4	/* questionnaire	*/
H06070E	4	/* questionnaire	*/
SREDA	4	/* questionnaire	*/
SRRACEA	4	/* questionnaire	*/
SRRACEB	4	/* questionnaire	*/
SRRACEC	4	/* questionnaire	*/
SRRACED	4	/* questionnaire	*/
SRRACEE	4	/* questionnaire	*/
SRAGE	4	/* questionnaire	*/
S06Y01	4	/* supplemental	*/
S06Y06A	4	/* supplemental	*/
S06Y06B	4	/* supplemental	*/
S06Y06C	4	/* supplemental	*/
S06Y06D	4	/* supplemental	*/
S06Y06E	4	/* supplemental	*/
S06Y06F	4	/* supplemental	*/
S06Y06G	4	/* supplemental	*/
S06Y06H	4	/* supplemental	*/
S06Y06I	4	/* supplemental	*/
S06Y06J	4	/* supplemental	*/
S06Y17	4	/* supplemental	*/
S06Y18A	4	/* supplemental	*/
S06Y18B	4	/* supplemental	*/
S06Y18C	4	/* supplemental	*/
S06Y18D	4	/* supplemental	*/
S06Y19A	4	/* supplemental	*/
S06Y19B	4	/* supplemental	*/
S06Y19C	4	/* supplemental	*/
S06Y19D	4	/* supplemental	*/
S06Y19E	4	/* supplemental	*/
S06Y19F	4	/* supplemental	*/
S06Y19I	4	/* supplemental	*/
S06Y19J	4	/* supplemental	*/
S06Y22	4	/* supplemental	*/
S06Y23	4	/* supplemental	*/
S06Y24	4	/* supplemental	*/
S06Y26A	4	/* supplemental	*/
S06Y26B	4	/* supplemental	*/
S06Y26C	4	/* supplemental	*/
S06Y26D	4	/* supplemental	*/
S06Y27A	4	/* supplemental	*/
S06Y27B	4	/* supplemental	*/
S06Y27C	4	/* supplemental	*/
S06Y27D	4	/* supplemental	*/
S06Y28A	4	/* supplemental	*/

/*FOR Q4 FY2006, JMA 09/02/06*/

S06Y28B	4	/* supplemental	*/
S06Y28C	4	/* supplemental	*/
S06Y29A	4	/* supplemental	*/
S06Y29B	4	/* supplemental	*/
S06Y29C	4	/* supplemental	*/
S06Y30A	4	/* supplemental	*/
S06Y30B	4	/* supplemental	*/
S06Y30C	4	/* supplemental	*/
S06Y30D	4	/* supplemental	*/
S06Y31	4	/* supplemental	*/
S06Y32A	4	/* supplemental	*/
S06Y32B	4	/* supplemental	*/
S06Y32C	4	/* supplemental	*/
S06Y33	4	/* supplemental	*/
S06Y34A	4	/* supplemental	*/
S06Y34B	4	/* supplemental	*/
S06Y34C	4	/* supplemental	*/
S06Y34D	4	/* supplemental	*/
S06Y34E	4	/* supplemental	*/
S06Y34F	4	/* supplemental	*/
S06Y34G	4	/* supplemental	*/
S06Y34H	4	/* supplemental	*/
S06Y34I	4	/* supplemental	*/
S06Y34J	4	/* supplemental	*/
S06Y35	4	/* supplemental	*/
S06Y36A	4	/* supplemental	*/
S06Y36B	4	/* supplemental	*/
S06Y36C	4	/* supplemental	*/
S06Y36D	4	/* supplemental	*/
S06Y36E	4	/* supplemental	*/
S06Y36F	4	/* supplemental	*/
S06Y36G	4	/* supplemental	*/
S06Y36H	4	/* supplemental	*/
S06Y36I	4	/* supplemental	*/
S06Y37A	4	/* supplemental	*/
S06Y37B	4	/* supplemental	*/
S06Y37C	4	/* supplemental	*/
S06Y37D	4	/* supplemental	*/
S06Y37E	4	/* supplemental	*/
S06Y37F	4	/* supplemental	*/
S06Y37G	4	/* supplemental	*/
S06Y37H	4	/* supplemental	*/
S06Y37I	4	/* supplemental	*/
S06Y37J	4	/* supplemental	*/
S06Y37K	4	/* supplemental	*/
S06Y37L	4	/* supplemental	*/
S06Y37M	4	/* supplemental	*/
S06Y37N	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	*/
N9	8	/* CS flag variable	*/
N10	8	/* CS flag variable	*/
N10H	8	/* CS flag variable	*/
N10I	8	/* CS flag variable	*/
N10J	8	/* CS flag variable	*/
N10K	8	/* CS flag variable	*/
N10L	8	/* CS flag variable	*/

N10M	8	/* CS flag variable	*/
N13	8	/* CS flag variable	*/
N14	8	/* CS flag variable	*/
N15	8	/* CS flag variable	*/
N16	8	/* CS flag variable	*/
N17	8	/* CS flag variable	*/
N18A	8	/* CS flag variable	*/
N18B	8	/* CS flag variable	*/
N19	8	/* CS flag variable	*/
N20	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	*/
XREGION	3	/* constructed	*/
XTNEXREG	3	/* constructed	*/
CONUS	3	/* constructed	*/
XOCONUS	3	/* constructed	*/
OUTCATCH	8	/* constructed	*/
XSEXA	8	/* constructed	*/
XBMI	8	/* constructed	*/
XBMICAT	3	/* constructed	*/
XBNFGRP	8	/* constructed	*/
XSERVAFF	3	/* constructed	*/
/* KDISENRL	8 */	/* constructed	*/
KMILOFFC	8	/* constructed	*/
KCIVOFFC	8	/* constructed	*/
KBGPRB1	8	/* constructed	*/
KBGPRB2	8	/* constructed	*/
KMILOPQY	8	/* constructed	*/
KCIVOPQY	8	/* constructed	*/
KCIVINS	8	/* constructed	*/
/* KPRSCPTN	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_NORM	8 */	/* constructed	*/
HP_OBESE	8	/* constructed	*/
HP_SMOKE	8	/* constructed	*/
HP_SMOKH	8	/* constructed	*/
/* HP_CESS	8 */	/* constructed	*/
HP_CESH	8	/* constructed	*/
/* SF8PF	8 */	/* constructed	*/
/* SF8RP	8 */	/* constructed	*/
/* SF8BP	8 */	/* constructed	*/
/* SF8GH	8 */	/* constructed	*/
/* SF8VT	8 */	/* constructed	*/
/* SF8SF	8 */	/* constructed	*/
/* SF8RE	8 */	/* constructed	*/
/* SF8MH	8 */	/* constructed	*/
/* PCS_8	8 */	/* constructed	*/
/* MCS_8	8 */	/* constructed	*/
/* KMID_H	8 */	/* constructed	*/
/* KMID_MH	8 */	/* constructed	*/

;

```
SET MERGEQ;  
  
RUN;  
  
PROC CONTENTS DATA=OUT.MERGEQ POSITION;  
  title "HCSDB for Q4 FY 2006, ordered by variable type";  
RUN;  
  
PROC FREQ DATA=OUT.MERGEQ;  
TABLE PCM ACV CACSMPL /MISSPRINT;  
RUN;
```

F.5.B Q4FY2006\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.SD2
/* ... \DATA\AFINAL\SAMPLA02.SD2
/* OUTPUT: ... \DATA\AFINAL\SERVAFF.SD2
*****/

LIBNAME DATA V612 '..\..\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 DATA.SAMPLA02(Rename=(PCM=oPCM));
LENGTH DMIS_ID $9;
DMIS_ID=ENRID;
IF DMIS_ID=' ' THEN DO;
    IF ULOCDMIS NE ' ' THEN DMIS_ID=ULOCDMIS;
    ELSE DMIS_ID=DCATCH;
END;

/*****
llu 10/287/05. Reconstruct PCM since it is wrong in the Q3
2005 sample
*****/

LENGTH PCM $3.;

IF ACV in ('Z', ' ') THEN PCM = ' ';
ELSE IF ('6900' < DMIS_ID <= '6919' OR
'7900' < DMIS_ID <= '7919' OR
'8000' < DMIS_ID < '8090' OR
'0190' <= DMIS_ID <= '0199')
THEN PCM='CIV';
ELSE PCM='MTF';

*****
* 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;

```

```

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=DATA.TMA(KEEP=DMIS_ID FACILITY) OUT=TMA; /*LLU 5/11/05*/
  BY DMIS_ID;
RUN;

DATA DATA.SERVAFF;
  MERGE SAMPLA02(IN=IN1)
        TMA(RENAME=(FACILITY=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=DATA.SERVAFF(OBS=200);
RUN;

PROC CONTENTS DATA=DATA.SERVAFF; RUN;

* check missing MSM;
proc freq DATA=DATA.SERVAFF;
TABLES PCM*ENRID*DCATCH*DMIS_ID/LIST MISSPRINT;
RUN;

```

F.6 Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\SMPLA1A2.SAS - CONSTRUCT THE CATEGORICAL VARIABLES TO BE USED IN THE ANSWERTREE AND THE MODELING – RUN QUARTERLY.

```

*****
*** Program: F:\Q1FY2006t\Programs\Weighting\NewWeights\smplA1A2.sas
*** Purpose: Construct the variables to be used in the model
***
*** Inputs:  extract.sd2: Q1FY2006t extract file
***          selectq.sd2: Q1FY2006t sample file with the response variables
***
*** Outputs: smplA1A2.sas7bdat
***           smplA1.sas7bdat: Dataset to be used to calculate the unknown eligibility factor A1
***           smplA2.sas7bdat: Dataset to be used to calculate the nonresponse adjustment A2
***           conusA1.sas7bdat, oconusA1.sas7bdat, conusA2.sas7bdat, oconusA2.sas7bdat
***
*** Written: Haixia Xu 5/10/2006
*****;

options ls=132 ps=79 nocenter formdlim='~';

libname in   v6 'F:\Q4_2005\Data\afinal'; /* extract.sd2 */
libname in_t v6 'F:\Q1FY2006t\Data\afinal'; /* selectq.sd2 */
libname out  v8 'F:\Q1FY2006t\Data\afinal';

title1 'Program: smplA1A2.SAS';
title2 'Purpose: Construct the variables';

*****
Merge the selectq with extract to get the variable PGCD
*****;
options compress=no;

data extract;
set in.extract(keep=MPRID PGCD);
run;

data selectq;
set in_t.selectq(keep=BWT CACSMPL D_HEALTH dageqy ENBGSMPL FNSTATUS MPCSMPL
                 MPRID PATCAT PCM PNLATCD PNSEXCD SERVAFF SEXSMPL STRATUM SVCSMPL WEB TNEXREG)
;
format _all_;

SELECT (enbgsmpl);
  WHEN ('01') EBG_COM = '01';
  WHEN ('02') EBG_COM = '02';
  WHEN ('03') EBG_COM = '02';
  WHEN ('04') EBG_COM = '03';
  WHEN ('05') EBG_COM = '04';
  WHEN ('06') EBG_COM = '04';
  WHEN ('07') EBG_COM = '05';
  WHEN ('08') EBG_COM = '06';
  WHEN ('09') EBG_COM = '06';
  WHEN ('10') EBG_COM = '06';
END;
run;

title3 'Check the construction of ebg_com';
proc freq data=selectq;
tables ebg_com*enbgsmpl/missing list;
run;

proc sort data=extract;
by MPRID;
run;

proc sort data=selectq;
by MPRID;
run;

data smpl only1 only2 problem;
merge extract(in=A) selectq(in=B);
by MPRID;

```

```

if A and B then output smpl;
else if A and NOT B then output only1;
else if B and NOT A then output only2;
else output problem;
run;

*****
Construct the new variables
*****;
title3 "Check to see if each CACSMPL is in only one region";
proc freq data=smpl;
tables CACSMPL*d_health/missing list;
run;

data smpl;
set smpl;

***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';

***PATCAT***;
***Define PATCAT this way so it won't be associated with the age ***;
length PATC_grp $7;
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;

***PCM***;
length PCM_grp $3;
if PCM = ' ' then PCM_grp='NON';
else if PCM in ('CIV', 'MTF') then PCM_grp = 'ENR';

***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') 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') 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***;
/*
*Put coastal guard with other unknown together since these 2 groups are too small;
length SVC_grp $16;
if SVCSMPL = 1 then SVC_grp='Army';
else if SVCSMPL = 2 then SVC_grp='Navy';
else if SVCSMPL = 3 then SVC_grp='Marine';
else if SVCSMPL = 4 then SVC_grp='Air Force';
else if SVCSMPL in (5,6) then SVC_grp='CstGrd/Otr/Unkwn';
*/
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 cacsmp1 0047(d_health=15->18), 0078(d_health=18->19):
All the cases in the same cacsmp1 should be in the same TNEX region, which is the region of the
cacsmp1;
if CACSMPL = '0047' then TNEX_grp='S';
else if CACSMPL = '0078' then TNEX_grp='W';

***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 cacsmp1 in ('9901', '9902', '9903', '9904') then in_catch='0';
else in_catch = '1';

label in_catch='In-catchment area indicator';
run;

title3 'Checking the coding above';
proc freq data=smp1;
tables AGE_grp5 AGE_grp5*AGE*dageqy
      PATC_grp PATC_grp*PATCAT*ENBGSMPL
      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*cacsmp1/missing list;
run;

title3 'Freq of fnstatus in smp1';
proc freq data=smp1;
tables fnstatus conus*fnstatus/missing list;
run;

*****
Output the data sets
*****;
options compress=yes;

```

```

data OUT.smplA1A2 OUT.smplA1 OUT.smplA2 OUT.conusA1 OUT.oconusA1 OUT.conusA2 OUT.oconusA2;
set smpl(drop=DAGEQY PNSEXCD MPCSMPL PGCD );

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 50,000 beneficiaries';
proc freq data=OUT.smplA1A2;
tables conus*fnstatus/ missing list;
run;

title3 'Freq of fnstatus*eligkwn for 50,000 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.A Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\ANSWERTREE\CONUS_A1_LEVEL3_AGEGRP5.ATS - ANSWERTREE - CONUS A1.

```
Document Version 1.1
Begin Project
Open Data_Source "GET
  FILE='F:\Q1FY2006t\Programs\Weighting\NewWeights\AnswerTree\conusA1.sav'.
" "conus_A1_level3_ageGRP5"

Begin Tree "conus_A1_level3_ageGRP5"
Method Chaid
Nominal Variable "ELIGKWN"
Nominal Variable "AGE_grp5"
Nominal Variable "PATC_grp"
Nominal Variable "PCM_grp"
Nominal Variable "PNLC_grp"
Nominal Variable "RANK_grp"
Nominal Variable "SEX_grp"
Nominal Variable "SVC_grp"
Nominal Variable "TNEX_grp"
Nominal Variable "IN_CATCH"
Target "ELIGKWN"
Predictors "AGE_grp5" "PATC_grp" "PCM_grp" "PNLC_grp"
  "RANK_grp" "SEX_grp" "SVC_grp" "TNEX_grp" "IN_CATCH"
Maximum Competitors 5
Maximum Categories 25
Minimum Impurity_Change 0.0001
Minimum_Cases Parent 100
Minimum_Cases Child 50
Minimum_Percent Parent 0
Minimum_Percent Child 0
Maximum Depth 3
Alpha Split 0.050000000000000003
Alpha Merge 0.050000000000000003
Alpha Merge_Split 0.025000000000000001
Allow Splitting_Of_Merged 0
Use Bonferroni_Adjustment 1
Convergence Epsilon 0.001
Convergence Maximum_Iterations 100
Chi_Square Pearson

Format Gain Cumulative Statistics 1 Target Category 1 Sort Descending
Define Revenues CVPair(0 ,0 ) CVPair(1 ,1 )
Define Expenses CVPair(0 ,0 ) CVPair(1 ,0 )

Create Root_Node
Grow tree

'Format the rules that you want to export
Format Rules Decision_Rules For_Assigning_Values
'Export the output as HTML files
ExportHTML Tree "conus_A1_level3_ageGRP5_tree.htm"
'ExportHTML Gain "conus_A1_level3_ageGRP5_gain.htm"
ExportHTML Summary "conus_A1_level3_ageGRP5_summmary.htm"
'ExportHTML Risk "conus_A1_level3_ageGRP5_risk.htm"
ExportHTML Rules "conus_A1_level3_ageGRP5_rule.htm"
'Export Model "conus_A1_level3_ageGRP5_model.xml"

End Tree

End Project
```

F.7.B Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\ANSWERTREE\OCONUS_A1_LEVEL3_AGEGRP5.ATS - ANSWERTREE - OCONUS A1.

```
Document Version 1.1
Begin Project
Open Data_Source "GET
  FILE='F:\Q1FY2006t\Programs\Weighting\NewWeights\AnswerTree\oconusA1.sav'.
" "oconus_A1_level3_ageGRP5"

Begin Tree "oconus_A1_level3_ageGRP5"
Method Chaid
Nominal Variable "ELIGKWN"
Nominal Variable "AGE_grp5"
Nominal Variable "PATC_grp"
Nominal Variable "PCM_grp"
Nominal Variable "PNLC_grp"
Nominal Variable "RANK_grp"
Nominal Variable "SEX_grp"
Nominal Variable "SVC_grp"
Nominal Variable "IN_CATCH"
Target "ELIGKWN"
Predictors "AGE_grp5" "PATC_grp" "PCM_grp" "PNLC_grp"
  "RANK_grp" "SEX_grp" "SVC_grp" "IN_CATCH"
Maximum Competitors 5
Maximum Categories 25
Minimum Impurity_Change 0.0001
Minimum_Cases Parent 100
Minimum_Cases Child 50
Minimum_Percent Parent 0
Minimum_Percent Child 0
Maximum Depth 3
Alpha Split 0.0500000000000000003
Alpha Merge 0.0500000000000000003
Alpha Merge_Split 0.0250000000000000001
Allow Splitting_Of_Merged 0
Use Bonferroni_Adjustment 1
Convergence Epsilon 0.001
Convergence Maximum_Iterations 100
Chi_Square Pearson

Format Gain Cumulative Statistics 1 Target Category 1 Sort Descending
Define Revenues CVPair(0 ,0 ) CVPair(1 ,1 )
Define Expenses CVPair(0 ,0 ) CVPair(1 ,0 )

Create Root_Node
Grow tree

'Format the rules that you want to export
  Format Rules Decision_Rules For_Assigning_Values
'Export the output as HTML files
  ExportHTML Tree "oconus_A1_level3_ageGRP5_tree.htm"
'ExportHTML Gain "oconus_A1_level3_ageGRP5_gain.htm"
  ExportHTML Summary "oconus_A1_level3_ageGRP5_summary.htm"
'ExportHTML Risk "oconus_A1_level3_ageGRP5_risk.htm"
  ExportHTML Rules "oconus_A1_level3_ageGRP5_rule.htm"
'Export Model "oconus_A1_level3_ageGRP5_model.xml"

End Tree

End Project
```

F.7.C Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\ANSWERTREE\CONUS_A2_LEVEL3_AGEGRP5.ATS - ANSWERTREE - CONUS A2.

```
Document Version 1.1
Begin Project
Open Data_Source "GET
  FILE='F:\Q1FY2006t\Programs\Weighting\NewWeights\AnswerTree\conusA2.sav'.
" "conus_A2_level3_ageGRP5"

Begin Tree "conus_A2_level3_ageGRP5"
Method Chaid
Nominal Variable "complete"
Nominal Variable "AGE_grp5"
Nominal Variable "PATC_grp"
Nominal Variable "PCM_grp"
Nominal Variable "PNLC_grp"
Nominal Variable "RANK_grp"
Nominal Variable "SEX_grp"
Nominal Variable "SVC_grp"
Nominal Variable "TNEX_grp"
Nominal Variable "IN_CATCH"
Target "complete"
Predictors "AGE_grp5" "PATC_grp" "PCM_grp" "PNLC_grp"
  "RANK_grp" "SEX_grp" "SVC_grp" "TNEX_grp" "IN_CATCH"
Maximum Competitors 5
Maximum Categories 25
Minimum Impurity_Change 0.0001
Minimum_Cases Parent 100
Minimum_Cases Child 50
Minimum_Percent Parent 0
Minimum_Percent Child 0
Maximum Depth 3
Alpha Split 0.050000000000000003
Alpha Merge 0.050000000000000003
Alpha Merge_Split 0.025000000000000001
Allow Splitting_Of_Merged 0
Use Bonferroni_Adjustment 1
Convergence Epsilon 0.001
Convergence Maximum_Iterations 100
Chi_Square Pearson

Format Gain Cumulative Statistics 1 Target Category 1 Sort Descending
Define Revenues CVPair(0 ,0 ) CVPair(1 ,1 )
Define Expenses CVPair(0 ,0 ) CVPair(1 ,0 )

Create Root_Node
Grow tree

'Format the rules that you want to export
Format Rules Decision_Rules For_Assigning_Values
'Export the output as HTML files
ExportHTML Tree "conus_A2_level3_ageGRP5_tree.htm"
'ExportHTML Gain "conus_A2_level3_ageGRP5_gain.htm"
ExportHTML Summary "conus_A2_level3_ageGRP5_summmary.htm"
'ExportHTML Risk "conus_A2_level3_ageGRP5_risk.htm"
ExportHTML Rules "conus_A2_level3_ageGRP5_rule.htm"
'Export Model "conus_A2_level3_ageGRP5_model.xml"

End Tree

End Project
```

F.7.D Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\ANSWERTREE\OCONUS_A2_LEVEL3_AGEGRP5.ATS - ANSWERTREE - OCONUS A2.

```
Document Version 1.1
Begin Project
Open Data_Source "GET
  FILE='F:\Q1FY2006t\Programs\Weighting\NewWeights\AnswerTree\oconusA2.sav'.
" "oconus_A2_level3_ageGRP5"

Begin Tree "oconus_A2_level3_ageGRP5"
Method Chaid
Nominal Variable "complete"
Nominal Variable "AGE_grp5"
Nominal Variable "PATC_grp"
Nominal Variable "PCM_grp"
Nominal Variable "PNLC_grp"
Nominal Variable "RANK_grp"
Nominal Variable "SEX_grp"
Nominal Variable "SVC_grp"
Nominal Variable "IN_CATCH"
Target "complete"
Predictors "AGE_grp5" "PATC_grp" "PCM_grp" "PNLC_grp"
  "RANK_grp" "SEX_grp" "SVC_grp" "IN_CATCH"
Maximum Competitors 5
Maximum Categories 25
Minimum Impurity_Change 0.0001
Minimum_Cases Parent 100
Minimum_Cases Child 50
Minimum_Percent Parent 0
Minimum_Percent Child 0
Maximum Depth 3
Alpha Split 0.0500000000000000003
Alpha Merge 0.0500000000000000003
Alpha Merge_Split 0.0250000000000000001
Allow Splitting_Of_Merged 0
Use Bonferroni_Adjustment 1
Convergence Epsilon 0.001
Convergence Maximum_Iterations 100
Chi_Square Pearson

Format Gain Cumulative Statistics 1 Target Category 1 Sort Descending
Define Revenues CVPair(0 ,0 ) CVPair(1 ,1 )
Define Expenses CVPair(0 ,0 ) CVPair(1 ,0 )

Create Root_Node
Grow tree

'Format the rules that you want to export
  Format Rules Decision_Rules For_Assigning_Values
'Export the output as HTML files
  ExportHTML Tree "oconus_A2_level3_ageGRP5_tree.htm"
'ExportHTML Gain "oconus_A2_level3_ageGRP5_gain.htm"
  ExportHTML Summary "oconus_A2_level3_ageGRP5_summary.htm"
'ExportHTML Risk "oconus_A2_level3_ageGRP5_risk.htm"
  ExportHTML Rules "oconus_A2_level3_ageGRP5_rule.htm"
'Export Model "oconus_A2_level3_ageGRP5_model.xml"

End Tree

End Project
```

F.8 Q1FY2006T\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.

```

*****
*** Program: F:\Q1FY2006t\Programs\Weighting\NewWeights\logmdA1.sas
*** Purpose: Use the SUDAAN model to predict the response propensity score for the unknown
eligibility adjustment step
*** Inputs: conusA1.sas7bdat, oconusA1.sas7bdat, smp1A1A2.sas7bdat
*** Outputs: logmdA1.sas7bdat
***
*** Written: Haixia Xu 05/10/2006
*****
;

options ls=132 ps=79 compress=yes nocenter formdlim='~';

libname in v8 'F:\Q1FY2006t\Data\afinal'; /* conusA1.sas7bdat, oconusA1.sas7bdat */
libname out v8 'F:\Q1FY2006t\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'
                2 = '2-DEPACT'
                3 = '3-NADD';
value FMT_PCM 1 = '1-Nonenrollee'
               2 = '2-Enrollee';
value FMT_PNLC 1 = '1-Other'
               2 = '2-Grd/Resv';
value FMT_RANK 1 = '1-E1234'
                2 = '2-E56789101112'
                3 = '3-W1230123'
                4 = '4-W45045678910';
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';
run;

title1 'Program: logmdA1.sas';
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.smp1A1(obs=50);
tables MPRID stratum/missing list;
run;

title3 'Freq of CACSMPL';
proc freq data=in.smp1A1;
tables CACSMPL /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' then PATC_num=1;
else if PATC_grp= 'DEPACT' then PATC_num=2;
else if PATC_grp = 'NADD' then PATC_num=3;

if PCM_grp='NON' then PCM_num=1;
else if PCM_grp='ENR' then PCM_num=2;

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;
run;

title3 'Freq of MPRID_nm*mprid strat_nm*stratum';
proc freq data=logmdA1(obs=100);
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
/missing list;
run;

data conus oconus;
set logmdA1;
if conus='1' then output conus;
else if conus='0' then output oconus;
run;

*=====
Start the modeling for conus.
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 q1FY2006t answer tree for conus A1.
=====;

```

```

/*The interactions below are determined based on the q1FY2006t conus A1 tree*/
title3 'Check the zero cell count for CONUS before modeling';
proc freq data=conus;
tables
AGE_grp5*PATC_grp*SEX_grp*eligkwn
AGE_grp5*RANK_grp*SEX_grp*eligkwn
AGE_grp5*RANK_grp*PNLC_grp*eligkwn
AGE_grp5*PATC_grp*RANK_grp*eligkwn
AGE_grp5*PATC_grp*PCM_grp*eligkwn

AGE_grp5*PATC_grp*eligkwn
AGE_grp5*SEX_grp*eligkwn
PATC_grp*SEX_grp*eligkwn
AGE_grp5*RANK_grp*eligkwn
RANK_grp*SEX_grp*eligkwn
AGE_grp5*PNLC_grp*eligkwn
RANK_grp*PNLC_grp*eligkwn
PATC_grp*RANK_grp*eligkwn
AGE_grp5*PCM_grp*eligkwn
PATC_grp*PCM_grp*eligkwn
/missing list;
run;

*****
After checking the freqs above for the cells with zero count, we decided to do the following:
1. Move some cases into a different group to avoid the zero cell count
2. Use NADD as reference group for PATC_grp
*****;
data conus;
set conus;
age_grp5_old=age_grp5;
age_num5_old=age_num5;
pnlc_grp_old=pnlc_grp;
pnlc_num_old=pnlc_num;

if AGE_grp5='5' and PATC_grp='ACTDTY' and SEX_grp='1' then do;
  AGE_grp5='4';
  AGE_num5=4;
  flag1=1;
end;
else if AGE_grp5='5' and RANK_grp='W45045678910' and PNLC_grp='Grd/Resv' then do;
  PNLC_grp='Other';
  PNLC_num=1;
  flag2=1;
end;
else if AGE_grp5='5' and PATC_grp='ACTDTY' and RANK_grp='W45045678910' then do;
  AGE_grp5='4';
  AGE_num5=4;
  flag3=1;
end;
else if AGE_grp5='5' and PATC_grp='ACTDTY' and PCM_grp='ENR' then do;
  AGE_grp5='4';
  AGE_num5=4;
  flag4=1;
end;
run;

title3 'Check the regrouping';
proc freq data=conus;
tables
AGE_grp5*PATC_grp*SEX_grp*AGE_grp5_old*flag1
AGE_grp5*RANK_grp*PNLC_grp*PNLC_grp_old*flag2
AGE_grp5*PATC_grp*RANK_grp*AGE_grp5_old*flag3
AGE_grp5*PATC_grp*PCM_grp*AGE_grp5_old*flag4

age_num5_old*age_num5*flag1
PNLC_num_old*PNLC_num*flag2 /missing list;
run;

title3 'Check the zero cell count again';
proc freq data=conus;
tables

```

```

AGE_grp5*PATC_grp*SEX_grp*eligkwn
AGE_grp5*RANK_grp*SEX_grp*eligkwn
AGE_grp5*RANK_grp*PNLC_grp*eligkwn
AGE_grp5*PATC_grp*RANK_grp*eligkwn
AGE_grp5*PATC_grp*PCM_grp*eligkwn

AGE_grp5*PATC_grp*eligkwn
AGE_grp5*SEX_grp*eligkwn
PATC_grp*SEX_grp*eligkwn
AGE_grp5*RANK_grp*eligkwn
RANK_grp*SEX_grp*eligkwn
AGE_grp5*PNLC_grp*eligkwn
RANK_grp*PNLC_grp*eligkwn
PATC_grp*RANK_grp*eligkwn
AGE_grp5*PCM_grp*eligkwn
PATC_grp*PCM_grp*eligkwn
/missing list;
run;

data conus;
set conus(drop=age_grp5_old pnlc_grp_old flag1-flag4);
run;

%macro modelselect_conus(method= );
title3 "SAS Logistic for CONUS - &method.";
proc logistic data=conus descending;
CLASS
TNEC_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') /param=ref descending;
MODEL eligkwn =
TNEC_grp
AGE_grp5
PATC_grp
PCM_grp
PNLC_grp
RANK_grp
SEX_grp
SVC_grp
IN_CATCH

AGE_grp5*RANK_grp
AGE_grp5*PATC_grp
PATC_grp*RANK_grp
AGE_grp5*PNLC_grp
RANK_grp*PNLC_grp
AGE_grp5*SEX_grp
RANK_grp*SEX_grp
PATC_grp*SEX_grp
AGE_grp5*PCM_grp
PATC_grp*PCM_grp

AGE_grp5*PATC_grp*SEX_grp
AGE_grp5*RANK_grp*SEX_grp
AGE_grp5*RANK_grp*PNLC_grp
AGE_grp5*PATC_grp*RANK_grp
AGE_grp5*PATC_grp*PCM_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
*****;

```



```
proc sort data=conus;
by STRAT_nm;
run;
/*
```

Summary of Stepwise Selection

Wald	Effect	Number	Score	Chi-
Step	Entered	Removed	DF	In
Square	Pr > ChiSq			Chi-Square
1	AGE_grp5 <.0001		4	1
2	RANK_grp <.0001		3	2
3	PATC_grp <.0001		2	3
4	PCM_grp <.0001		1	4
5	AGE_grp5*PATC_grp <.0001		7	5
6	PATC_grp*RANK_grp <.0001		6	6
7	SVC_grp <.0001		2	7
8	in_catch <.0001		1	8
9	AGE_grp5*RANK_grp 0.0006		12	9
10	SEX_grp 0.0164		1	10
11	PATC_grp*SEX_grp <.0001		2	11
12	AGE_grp5*SEX_grp <.0001		4	12
13	RANK_grp*SEX_grp 0.0068		3	13
14	AGE_gr*RANK_g*SEX_gr 0.0177		12	14
15	AGE_gr*PATC_g*RANK_g 0.1247		20	15
16	TNEX_grp 0.1380		2	16

```
*/
title3 "The final model from SAS stepwise";
proc rlogist data=conus design=STRWR filetype=SAS;
NEST STRAT_nm;
weight bwt;
SUBGROUP TNEX_num AGE_num5 PATC_num PCM_num RANK_num SEX_num SVC_num INCAT_num;
LEVELS 3 5 3 2 4 2 3 2;
REFLEVEL TNEX_num=1 AGE_num5=1 PATC_num=3 PCM_num=1 RANK_num=1 SEX_num=1 SVC_num=1 INCAT_num=1;
MODEL eligkwn =
TNEX_num
AGE_num5
PATC_num
PCM_num
RANK_num
SEX_num
SVC_num
INCAT_num

AGE_num5*RANK_num
AGE_num5*PATC_num
PATC_num*RANK_num
AGE_num5*SEX_num
RANK_num*SEX_num
PATC_num*SEX_num
AGE_num5*RANK_num*SEX_num
AGE_num5*PATC_num*RANK_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.;
run;

/*The model below is the best one among all that I have tried*/
title3 "The final model from SAS stepwise - exclude AGE*PATCAT*RANK";
proc rlogist data=conus design=STRWR filetype=SAS;
NEST STRAT_nm;
weight bwt;
SUBGROUP TNEX_num AGE_num5 PATC_num PCM_num RANK_num SEX_num SVC_num INCAT_num;
LEVELS 3 5 3 2 4 2 3 2;
REFLEVEL TNEX_num=1 AGE_num5=1 PATC_num=3 PCM_num=1 RANK_num=1 SEX_num=1 SVC_num=1 INCAT_num=1;
MODEL eligkwn =
TNEX_num
AGE_num5
PATC_num
PCM_num
RANK_num
SEX_num
SVC_num
INCAT_num

AGE_num5*RANK_num
AGE_num5*PATC_num
PATC_num*RANK_num
AGE_num5*SEX_num
RANK_num*SEX_num
PATC_num*SEX_num
AGE_num5*RANK_num*SEX_num
/*AGE_num5*PATC_num*RANK_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.;
run;

*=====
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 q1FY2006t tree for Oconus A1
=====;

/*The interactions below are determined based on the q1FY2006t oconus A1 tree*/
title3 'Check the zero cell count for OCONUS before modeling';
proc freq data=oconus;
tables
AGE_grp5*RANK_grp*PCM_grp*eligkwn
AGE_grp5*RANK_grp*in_catch*eligkwn
AGE_grp5*SEX_grp*SVC_grp*eligkwn

AGE_grp5*RANK_grp*eligkwn
RANK_grp*PCM_grp*eligkwn
AGE_grp5*PCM_grp*eligkwn
AGE_grp5*in_catch*eligkwn
RANK_grp*in_catch*eligkwn
AGE_grp5*SEX_grp*eligkwn
AGE_grp5*SVC_grp*eligkwn
SEX_grp*SVC_grp*eligkwn
/missing list;

```

```

run;

/* Put the cases with the zell cell count to other groups*/

data oconus;
set oconus;
PCM_grp_old=PCM_grp;
in_catch_old=in_catch;
PCM_num_old=PCM_num;
incat_num_old=incat_num;
if AGE_grp5='1' and RANK_grp='W1230123' and PCM_grp='NON' then do;
  PCM_grp='ENR';
  PCM_num=2;
  flag1=1;
end;
if AGE_grp5='5' and RANK_grp='W1230123' and PCM_grp='ENR' then do;
  PCM_grp='NON';
  PCM_num=1;
  flag2=1;
end;
if AGE_grp5='1' and RANK_grp='W1230123' and in_catch='0' then do;
  in_catch='1';
  INCAT_num=2;
  flag3=1;
end;
run;

title3 'Check the regrouping';
proc freq data=oconus;
tables
AGE_grp5*RANK_grp*PCM_grp*PCM_grp_old*flag1*flag2
AGE_grp5*RANK_grp*in_catch*in_catch_old*flag3
PCM_num_old*PCM_num*flag1*flag2
INCAT_num_old*INCAT_num*flag3
/missing list;
run;

title3 'Check to see if we still have zero cell counts probelms ';
proc freq data=oconus;
tables
AGE_grp5*RANK_grp*PCM_grp*eligkwn
AGE_grp5*RANK_grp*in_catch*eligkwn
AGE_grp5*SEX_grp*SVC_grp*eligkwn

AGE_grp5*RANK_grp*eligkwn
RANK_grp*PCM_grp*eligkwn
AGE_grp5*PCM_grp*eligkwn
AGE_grp5*in_catch*eligkwn
RANK_grp*in_catch*eligkwn
AGE_grp5*SEX_grp*eligkwn
AGE_grp5*SVC_grp*eligkwn
SEX_grp*SVC_grp*eligkwn
/missing list;
run;

data oconus;
set oconus(drop=pcm_grp_old pcm_num_old in_catch_old incat_num_old flag1-flag3 );
run;

/*The interactions below are determined based on the q12006t oconus A1 tree*/
%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') /param=ref descending;

```

```

MODEL eligkwn =
AGE_grp5
PATC_grp
PCM_grp
PNLC_grp
RANK_grp
SEX_grp
SVC_grp
IN_CATCH

AGE_grp5*RANK_grp
RANK_grp*PCM_grp
AGE_grp5*PCM_grp
AGE_grp5*in_catch
RANK_grp*in_catch
AGE_grp5*SEX_grp
AGE_grp5*SVC_grp
SEX_grp*SVC_grp

AGE_grp5*RANK_grp*PCM_grp
AGE_grp5*RANK_grp*in_catch
AGE_grp5*SEX_grp*SVC_grp
/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);

title3 "SUDAAN Logistic for OCONUS";
title4 "Use the final model from SAS stepwise above";
proc sort data=oconus;
by STRAT_nm;
run;
/*

```

Summary of Stepwise Selection

Wald Square	Step	Effect		DF	Number		Score	
		Entered Pr > ChiSq	Removed		In	Chi-Square	Chi-	
.	1	AGE_grp5 <.0001		4	1	710.6553		
.	2	RANK_grp <.0001		3	2	67.8905		
.	3	PCM_grp 0.0001		1	3	14.4585		
.	4	PATC_grp <.0001		2	4	34.4361		
.	5	AGE_grp5*PCM_grp 0.0022		4	5	16.7162		
.	6	AGE_grp5*RANK_grp 0.0345		12	6	22.2816		
.	7	SEX_grp 0.0530		1	7	3.7454		
.	8	AGE_grp5*SEX_grp <.0001		4	8	24.2184		

```

*/
proc rlogist data=oconus design=STRWR filetype=SAS;
NEST STRAT_nm;
weight bwt;
SUBGROUP AGE_num5 PATC_num PCM_num RANK_num SEX_num ;
LEVELS 5 3 2 4 2 ;
REFLEVEL AGE_num5=1 PATC_num=3 PCM_num=1 RANK_num=1 SEX_num=1 ;
MODEL eligkwn =
AGE_num5
PATC_num
PCM_num
RANK_num
SEX_num

```

```

AGE_num5*RANK_num
AGE_num5*PCM_num
AGE_num5*SEX_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_PATC.;
rformat PCM_num FMT_PCM.;
rformat SEX_num FMT_SEX.;
rformat SVC_num FMT_SVC.;
run;

*=====
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;

***** The End *****;

```

F.9 Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\ADJWT1.SAS - FORM THE WEIGHTING CLASSES FROM THE PROPENSITY SCORES THEN CALCULATE THE UNKNOWN ELIGIBILITY ADJUSTED WEIGHT – RUN QUARTERLY.

```

*****
*** Program: F:\Q1FY2006t\Programs\Weighting\NewWeights\adjwt1.sas
*** 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
***
*** Written: Haixia Xu 05/16/2006
*****
;

options ls=132 ps=79 compress=yes nocenter FORMCHAR='|-----' formdlim='~';

%include "C:\MyFiles\macros\design_effects_unequal_weights.sas";

libname in   v8 'F:\Q1FY2006t\Data\afinal'; /* logmdA1.sas7bdat */
libname in_f v6 'F:\Q4_2005\Data\afinal'; /* framea.sd2 */
libname out  v8 'F:\Q1FY2006t\Data\afinal'; /* adjwt1.sas7bdat */

title1 'Program: adjwt1.sas';
title2 'Purpose: Calculate the unknown eligibility adjusted weight';

title3 'Contents of logmdA1';
proc contents data=in.logmdA1;
run;

***Calculate the deciles within conus region;
%macro univ_conus(inputdata=, step=, region=, var=, cellvar=, outputdata=);

title3 "Univariate of &var. for conus=&region.";
proc univariate data=&inputdata.;
var &var.;
where conus="&region.";
output out=out pctlpts =10 20 30 40 50 60 70 80 90 pctlpre=cutoff;
run;

title3 "Decile 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;

%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 univariate data=&inputdata.;
var &var.;
where conus="&region.";
output out=out pctlpts =20 40 60 80 pctlpre=cutoff;
run;

title3 "Decile 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;

%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;
data merged;
set Alconus Aloconus;
run;

*****
* Start to calculate the adjusted weight using the weighting class method
*****;

%MACRO PROCESS(DOMAIN1, INPT);

  *** Initial Information. ***;

  title3 'FRAMEA.SD2 Count';

  proc freq data=in_f.framea;
  table enbgsmpl ebg_com / 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. cacsmp1 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;

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;

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';

proc freq data=adj_one;
table &domain1.*fnstatus*adj1/ list missing;
run;

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;

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;

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;

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 Adjwt 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 "Propensity Score Weighting Method - Individual Level Adjwt";
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";
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";
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.10 Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\ADJWT2.SAS - FORM THE WEIGHTING CLASSES BASED ON THE ANSWER TREES THEN CALCULATE THE NONRESPONSE ADJUSTED WEIGHT – RUN QUARTERLY.

```

*****
*** Program: F:\Q1FY2006t\Programs\Weighting\NewWegihts\adjwt2.sas
*** Purpose: Calculate the final adjusted weight
*** Inputs:  smplA2.sas7bdat, adjwt1.sas7bdat
*** Outputs: adjwt2.sas7bdat
***
*** Written: Haixia Xu 05/16/2006
*****
;

options ls=132 ps=79 compress=yes nocenter FORMCHAR='|+-----+' formdlm='~';

libname in   v8 'F:\Q1FY2006t\Data\afinal'; /* smplA2.sas7bdat, adjwt1.sas7bdat */
libname out  v8 'F:\Q1FY2006t\Data\afinal'; /* adjwt2.sas7bdat */

title1 'Program: adjwt2.sas';
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(for q2fy,2006, there is 98.8% complete), we decided
not to do the modeling,
and instead to create the weight cells based on the A2 tree for q2fy,2006.
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;
if conus='1' then do;
  if PATC_grp in ('DEPACT', 'NADD') and AGE_grp5 in ('2','3','4','5') and PCM_grp = 'ENR'
    then Pcell_A2='2101';
  else if PATC_grp in ('DEPACT', 'NADD') and AGE_grp5 in ('2','3','4','5') and PCM_grp = 'NON'
    then Pcell_A2='2102';
  else if PATC_grp in ('DEPACT', 'NADD') and AGE_grp5='1' and SEX_grp = '2' then Pcell_A2='2103';
  else if PATC_grp in ('DEPACT', 'NADD') and AGE_grp5='1' and SEX_grp = '1' then Pcell_A2='2104';
  else if PATC_grp = 'ACTDTY' and SVC_grp='Army' and AGE_grp5 in ('3','4') then Pcell_A2='2105';
  else if PATC_grp = 'ACTDTY' and SVC_grp='Army' and AGE_grp5 in ('1','2') then Pcell_A2='2106';
  else if PATC_grp = 'ACTDTY' and SVC_grp in ('Air Force', 'N/M/C/O/U') and SEX_grp='2'
    then Pcell_A2='2107';
  else if PATC_grp = 'ACTDTY' and SVC_grp in ('Air Force', 'N/M/C/O/U') and SEX_grp='1'
    then Pcell_A2='2108';
  else Pcell_A2='9999'; /*problem*/
end;
else if conus='0' then do;
  if RANK_grp in ('E56789101112','W1230123','W45045678910') then Pcell_A2='2001';
  else if RANK_grp='E1234' then Pcell_A2='2002';

```

```

else Pcell_A2='9999'; /*problem*/
end;
run;

title3 'Check the construction of weighting classes';
proc freq data=merged;
tables conus*Pcell_A2/missing list;
run;

proc freq data=merged;
where conus='1';
tables conus*pcell_a2*patc_grp*age_grp5*pcm_grp
       conus*pcell_a2*patc_grp*age_grp5*sex_grp
       conus*pcell_a2*patc_grp*svc_grp*age_grp5
       conus*pcell_a2*patc_grp*svc_grp*sex_grp/missing list;
run;

proc freq data=merged;
where conus='0';
tables conus*pcell_a2*rank_grp/missing list;
run;

* Calculate nonresponse adjusted weight based on user-specified domains.
*****;
%MACRO PROCESS(DOMAIN2, INPT);

title3 "Freq of fnstatus in &inpt.";
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';

proc print data=cellsa2;
var &domain2. numercnt denomcnt numer denom a2;

```

```

sum numer denom numercnt denomcnt;
run;

proc print data=cellsa2;
where ( a2 > 7 ) or ( denomcnt < 15 );
var &domain2. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

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';

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;

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;

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 "Contents of adjwt2";
proc contents data=out.adjwt2;
run;

***** The End *****;

```

F.11 Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\ADJWTP.SAS - ASSIGN THE FINAL ADJUSTED WEIGHT FOR EVERYBODY IN THE SAMPLE FILE – RUN QUARTERLY.

```

*****
*** Program: F:\Q1FY2006t\Programs\Weighting\NewWeights\adjwtp.sas
*** Purpose: assign the final adjusted weight for everybody in the sample
*** Inputs: adjwt1.sas7bdat adjwt2.sas7bdat, selectq.sas7bdat, framea.sd2
*** Outputs: adjwtp.sas7bdat
***
*** Written: Haixia Xu 05/16/2006
*****
;

options ls=132 ps=79 compress=yes nocenter FORMCHAR='|+-----+' formdlm='~';

%include "C:\MyFiles\macros\design_effects_unequal_weights.sas";

libname in v8 'F:\Q1FY2006t\Data\afinal'; /* adjwt1.sas7bdat, adjwt2.sas7bdat*/
libname inv6 v6 'F:\Q1FY2006t\Data\afinal'; /* selectq.sd2 */
libname in_f v6 'F:\Q4_2005\Data\afinal'; /* framea.sd2 */
libname out v8 'F:\Q1FY2006t\Data\afinal'; /* adjwtp.sas7bdat */

title1 'Program: adjwtp.sas';
title2 'Purpose: Calculate the final adjusted weight';

*****
* Sort the original data selectq.sd2
*****;

data selectq;
set inv6.selectq
(keep=BWT CACSMPL D_HEALTH dageqy ENBGSMPL FNSTATUS MPCSMPL
MPRID PATCAT PCM PNLATCD PNSEXCD SERVAFF SEXSMPL STRATUM SVCSMPL WEB TNEXREG);
format _all_;

SELECT (enbgsmpl);
    WHEN ('01') EBG_COM = '01';
    WHEN ('02') EBG_COM = '02';
    WHEN ('03') EBG_COM = '02';
    WHEN ('04') EBG_COM = '03';
    WHEN ('05') EBG_COM = '04';
    WHEN ('06') EBG_COM = '04';
    WHEN ('07') EBG_COM = '05';
    WHEN ('08') EBG_COM = '06';
    WHEN ('09') EBG_COM = '06';
    WHEN ('10') EBG_COM = '06';
END;

PROC SORT DATA=selectq;
BY MPRID;
RUN;

*****
* Sort the ADJWTP1, ADJWTP2, 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) out=smplA1A2;
BY MPRID;
RUN;

*****
* Append final weight variable (adjwt)
*****;
DATA out.adjwtp;
MERGE selectq adjwt1 adjwt2 smplA1A2;

```

```

    BY MPRID;
*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;
format _all_;
run;

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;

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 = cacsmp1 stratum pcell_a1 pcell_a2 fnstatus bwt adj1 adj2 adjwt);
by pcell_a1 pcell_a2 fnstatus;
prodadjs = adj1 * adj2;
retain cellcnt sumadjwt;
if first.fnstatus then
do;
cellcnt = 1;
sumadjwt = adjwt;
end;
else
do;
cellcnt = cellcnt +1;
sumadjwt = sumadjwt + adjwt;
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 adjwt cellcnt sumadjwt;
sum cellcnt sumadjwt;
run;

proc freq data=sub_chk noprint;
tables prodadjs/missing list out=prodadjs;
run;

proc univariate data=prodadjs normal ;
var prodadjs;
run;

title3 "Individual Level Adjwtp";
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;
prodadjs=a1*a2;
run;

proc print data=sorted (obs=200);
var stratum pcell_a1 pcell_a2 BWT fnstatus a1 adj1 adjwt1 a2 adj2 adjwt prodadjs;
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.12.A Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\POSTWT.SAS - POSTSTRATIFY THE WEIGHTS – RUN QUARTERLY.

```

*****
*** Project: 2006 Health Care Survey of DoD Beneficiaries - Adult
*** Purpose: Do the poststratification
***
*** Program: F:\Q1FY2006t\Programs\weighting\NewWeights\postwt.sas
***
*** Inputs:  framea.sd2: the frame file
***          adjwtp.sas7bdat - weighted survey data
***
*** Outputs: postwt.sas7bdat: final weight data after poststratification
***          framea_postwt.sas7bdat: the frame file with the post cell in.
***
*** Written: 1) Haixia Xu on 05/16/2006
*** Note:    1)Do the poststratification to force weighted counts to population counts in certain
domain.
***
*****;

*** Set up options. ***;
options ls=132 ps=79 compress=no nocenter mprint mlogic symbolgen;

*** Set up the input and output paths. ***;
libname in  v8 "F:\Q1FY2006t\Data\AFinal"; /* adjwtp.sas7bdat */
libname inv6 v6 "F:\Q4_2005\Data\AFinal"; /* extract.sd2, framea.sd2 */
libname out  v8 "F:\Q1FY2006t\Data\AFinal"; /* postwt.sas7bdat */

%include 'F:\Q1FY2006t\Programs\Weighting\NewWeights\calpoststr.sas';
%include "F:\Q1FY2006t\Programs\Weighting\NewWeights\design_effects_unequal_weights.sas";

proc sort data=inv6.extract(keep=mprid pcm patcat) out=extract;
by mprid;
run;

proc sort data=inv6.framea out=temp;
by mprid;
run;

data framea;
merge extract(in=A) temp(in=B);
by MPRID;
if a and b;
run;

*****
*** Define the postcell
*****;

title1 'Program: postwt.sas';
title2 "Purpose: Poststratify: for MTF - TNEX|CACSMPL||PCM, for others - TNEX||'9999' ||PCM";
title3 'Freq of cacsmpl*d_health in the frame';
proc freq data=framea;
tables cacsmpl*d_health/missing list;
run;

data out.framea_postwt;
set framea;

length TNEX_grp $1;
if d_health in ('00', '13', '14', '15') then TNEX_grp='O';
else if d_health in ('17', '01', '02', '05') then TNEX_grp='N';
else if d_health in ('18', '03', '04', '06') then TNEX_grp='S';
else if d_health in ('19', '07', '08', '09', '10', '11', '12') then TNEX_grp='W';

*Correct the TNEX regions for cacsmpl 0047(d_health=15->18), 0078(d_health=18->19):
All the cases in the same cacsmpl should be in the same TNEX region, which is the region of the
cacsmpl;
if CACSMPL = '0047' then TNEX_grp='S';
else if CACSMPL = '0078' then TNEX_grp='W';

```

```

length TNEX_grp_temp $1;
if TNEX_grp='N' then TNEX_grp_temp='1';
else if TNEX_grp='S' then TNEX_grp_temp='2';
else if TNEX_grp='W' then TNEX_grp_temp='3';
else if TNEX_grp='O' then TNEX_grp_temp='4';

length postcell $7;
if PCM=' ' then postcell=TNEX_grp_temp||'9999'||'01';
else if PCM='CIV' then postcell=TNEX_grp_temp||'9999'||'02';
else if PCM='MTF' then postcell=TNEX_grp_temp||cacsmp1||'03';
else postcell='9999999'; /*probelm*/

/*****adding collapsements specific to Q1FY2006t bc large ps and small cell sizes*****/

if postcell='1990103' then postcell='1999902';
if postcell='2990203' then postcell='2999902';

run;

*** Reset up options. ***;
options ls=132 ps=79 compress=no nocenter;* mprint mlogic symbolgen;

title3 'Check the construction of postcell for the whole frame';
proc freq data=out.framea_postwt;
table
TNEX_grp*d_health
TNEX_grp_temp*TNEX_grp
postcell*PCM*TNEX_grp_temp*cacsmp1/missing list;
run;

***Sample***;
proc sort data=out.framea_postwt(drop=TNEX_grp_temp) out=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.;
diff = wtcnt - popcnt;
reldiff=diff/popcnt;
if A and B;

```

```

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=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=ebg_com, 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=cacsmpl, 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  EBG_COM = 'Enrollee/Beneficiary Group Prime Combine'
       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, cacsmpl, postwt, deff_overall, deff_cac );
%design_effects_unequal_weights ( postwt_fnl, enbgsmpl, postwt, deff_overall, deff_enb );
%design_effects_unequal_weights ( postwt_fnl, ebg_com, postwt, deff_overall, deff_ebgcom );
%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 Catchment Area ***;
title3 "Design Effects for cacsmpl";
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 EBG_COM Groups ***;
title3 'Design Effects for EBG_COM ';
proc print data= deff_ebgcom;
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 *****;
```

F.12.B Q1FY2006T\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 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 &preadjw. &psratio. &postwt.;
run;

title3 "Univariate of final weight";
proc univariate data=&outdata.;

```



```
var &postwt.;  
where fnstatus=11;  
run;  
%mend calpoststr;
```

F.13 Q1FY2006T\PROGRAMS\WEIGHTING\NEWWEIGHTS\REPWTP.SAS - PRODUCE THE REPLICATE WEIGHTS – RUN QUARTERLY.

```

*****
* PROGRAM:  \Q1FY2006t\Programs\Weighting\NewWeights\repwtp.SAS
* TASK:    2006 DOD QUARTERLY HEALTH CARE SURVEY
* PURPOSE: CALCULATE REPLICATE WEIGHTS FOR DOD SURVEY USING THE NEW WEIGHTING METHOD.
* WRITTEN: 12/30/1999 BY Keith Ranthbun
* Modified By Haixia Xu on 05/16/2006
*
* INPUTS:  postwt.sas7bdat - Final Weights file
*          framea_postwt.sas7bdat - The q1 frame file with the postcell defined
*
* OUTPUTS: repwtp.sas7bdat - Replicate Weights File
*
*****
* ;
LIBNAME IN  v8 "F:\Q1FY2006t\Data\Afinal"; /* postwt.sas7bdat, framea_postwt.sas7bdat */
LIBNAME OUT v8 "F:\Q1FY2006t\Data\Afinal"; /* repwtp.sas7bdat */

OPTIONS PS=79 LS=132 errors=10 COMPRESS=no NOCENTER formdlim='~' /*mlogic mprint symbolgen*/;

%MACRO PROCESS(DOMAIN1,DOMAIN2,DOMAIN3,reprs);

*****
* calculate the population counts to be used in the poststratification
*****;

proc freq data=in.framea_postwt 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,&reprs.) = 0 THEN SUBSET = 1;
  ELSE SUBSET + 1;

  RETAIN SUBSET;
  BBWT = BWT * (&reprs. / (&reprs. - 1));
RUN;

*****
*****
* Generate JackKnife/replicated weights adjwt01-adjwt60
*****
*****;
%DO I = 1 %TO &reprs.;

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. )
MPRIDSAL (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 MPRIDSAL;
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=cells2;

```

```

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;
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.repwtpr ;
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 "2005 DoD Quarterly Health Survey Final/Replicated Weights";
title2 "Checks for the Replicate Weights";
TITLE3 "Program Name: repwtp.SAS";

*****
Check the structure of the data set OUT.repwtp;
*****;

proc sort data=OUT.repwtp out=sorted;
by stratum mprid;
run;

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. cacsmpl;
RUN;

title4 "Check the replicate weights -- for all 50,000 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 cacempl);
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.14 WEIGHTING\COMB2006.SAS - COMBINE QUARTERLY DATASETS INTO ONE ANNUAL FILE - ANNUAL.

```

*****
*
* PROGRAM: COMB2006.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_1.SD2 - Q1-Q4 DOD HCS Analysis files
*           Where yy = Year (06)
*           q = Quarter Number (1-4)
*
* OUTPUT: 1) COMB2006.SD2 - 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 V612 "..\..\..\Q1FY2006T\DATA\AFINAL";
LIBNAME INQ2 V612 "..\..\..\Q2FY2006T\DATA\AFINAL";
LIBNAME INQ3 V612 "..\..\..\Q3FY2006T\DATA\AFINAL";
LIBNAME INQ4 V612 "..\..\..\Q4FY2006T\DATA\AFINAL";
LIBNAME OUT V612 "..\..\DATA";
LIBNAME LIBRARY V612 "..\..\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.HCS061_1 OUT=Q1(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;

PROC CONTENTS DATA=INQ2.HCS062_1 OUT=Q2(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;

PROC CONTENTS DATA=INQ3.HCS063_1 OUT=Q3(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;

PROC CONTENTS DATA=INQ4.HCS064_1 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: COMB2006.SAS By Keith Rathbun";
TITLE3 "Program Inputs: HCSyyq_1.SD2 - Q1-Q4 DOD HCS Sample and Analysis files";
TITLE4 "Program Output: COMB2006.SD2 - 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 COMB2006(DROP= XCATCH /* Xcatch will be recreated based on annual counts */);
  SET INQ1.HCS061_1
      INQ2.HCS062_1
      INQ3.HCS063_1
      INQ4.HCS064_1;
  BY MPRID;
  *DROP E1-E17; *Don't need eligibility indicators on final analysis file;
  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=COMB2006 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.COMB2006
  HCS061_1x(KEEP=MPRID XCATCH) HCS062_1x(KEEP=MPRID XCATCH)
  HCS063_1x(KEEP=MPRID XCATCH) HCS064_1x(KEEP=MPRID XCATCH) ;

  MERGE TEMP1(IN=IN1 DROP=ENRID) TMPXCTCH(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2 THEN DO;
    OUTPUT OUT.COMB2006;
    IF QUARTER="Q1FY2006" THEN OUTPUT HCS061_1x;
    IF QUARTER="Q2FY2006" THEN OUTPUT HCS062_1x;
    IF QUARTER="Q3FY2006" THEN OUTPUT HCS063_1x;
    IF QUARTER="Q4FY2006" THEN OUTPUT HCS064_1x;
  END;
RUN;

DATA INQ1.HCS061_1(DROP=ENRID);
  UPDATE INQ1.HCS061_1 HCS061_1x;
  BY MPRID;
RUN;

DATA INQ2.HCS062_1(DROP=ENRID);
  UPDATE INQ2.HCS062_1 HCS062_1x;
  BY MPRID;
RUN;

DATA INQ3.HCS063_1(DROP=ENRID);
  UPDATE INQ3.HCS063_1 HCS063_1x;
  BY MPRID;
RUN;

DATA INQ4.HCS064_1(DROP=ENRID);
  UPDATE INQ4.HCS064_1 HCS064_1x;
  BY MPRID;
RUN;

PROC CONTENTS; RUN;

```

F.15 WEIGHTING\ADDWGTS.SAS - MERGE THE FINAL WEIGHTS WITH THE FINAL QUESTIONNAIRE/SAMPLE FILE - ANNUAL.

```

*****
*
* PROGRAM:  ADDWGTS.SAS
* TASK:    2005 DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* 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: Updated 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.
*
* INPUTS:  1) CREPWT.SD2 - Final/Replicated Weights file - FORM A
*            2) COMB2005.SD2 - 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
*
* NOTES:   1) This program combines all of the quarterly input datasets
*            including trickles with the annual weights file.
*
*****;
LIBNAME OUT      V612 "..\..\DATA";
LIBNAME LIBRARY V612 "..\..\Data\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER NOFMterr;

%LET DSNI_1 = CREPWT;
%LET DSNI_2 = COMB2006;
%LET DSNO   = HCS06A_1;

*****
* Merge the final weights file with the final Questionnaire/Sample file
*****;
PROC SORT DATA=OUT.&DSNI_1 OUT=&DSNI_1; BY MPRID; RUN;
PROC SORT DATA=OUT.&DSNI_2 OUT=&DSNI_2; BY MPRID; RUN;

DATA &DSNO;
  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..SD2 AND &DSNI_2..SD2";

FORMAT CACSMPL CAC.  WEB WEB.
/*TRICKDUP $trckdup. */
N1  N2  N3  N4  N5  N6  N7  N8
N9  N10 N10AA N10A N10B N10C N10D N10E
N10F N10G N10H N10I N10J N10K N10L N10M
N13  N14  N15  N16  N16A N16B
N16C N16D N16E N16F N16G N16H N17  N18A
N18B N19  N20
notes.

XBMI xbmi.;

```

RUN;

DATA OUT.&DSNO ;

* Reorder file for documentation purposes.

*****;

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	*/
/* 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	/* DEERS variable	*/
MRTLSTAT	\$ 1	/* DEERS variable	*/
RACEETHN	\$ 1	/* DEERS variable	*/
PNSEXCD	\$ 1	/* DEERS variable	*/
LEGDDSCD	\$ 2	/* DEERS variable	*/
DAGEQY	\$ 3	/* DEERS variable	*/
FIELDAGE	\$ 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	*/
PNLCATCD	\$ 1	/* DEERS variable	*/

H06001	4	/* Questionnaire variable	*/
H06002A	4	/* Questionnaire variable	*/
H06002C	4	/* Questionnaire variable	*/
H06002F	4	/* Questionnaire variable	*/
H06002G	4	/* Questionnaire variable	*/
H06002H	4	/* Questionnaire variable	*/
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H06002K	4	/* Questionnaire variable	*/
H06002L	4	/* Questionnaire variable	*/
H06002M	4	/* Questionnaire variable	*/
H06002N	4	/* Questionnaire variable	*/
H06002O	4	/* Questionnaire variable	*/
H06002P	4	/* Questionnaire variable	*/
H06002Q	4	/* Questionnaire variable	*/
H06003	4	/* Questionnaire variable	*/
H06004	4	/* Questionnaire variable	*/
H06005	4	/* Questionnaire variable	*/
H06006	4	/* Questionnaire variable	*/
H06007	4	/* Questionnaire variable	*/
H06008	4	/* Questionnaire variable	*/
H06009	4	/* Questionnaire variable	*/
H06010	4	/* Questionnaire variable	*/
H06011	4	/* Questionnaire variable	*/

S06G18	4	/* Q1 Supplement	*/
S06G19	4	/* Q1 Supplement	*/
S06G20	4	/* Q1 Supplement	*/
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S06G26	4	/* Q1 Supplement	*/
S06G27	4	/* Q1 Supplement	*/
S06G28	4	/* Q1 Supplement	*/
S06G29A	4	/* Q1 Supplement	*/
S06G29B	4	/* Q1 Supplement	*/
S06G29C	4	/* Q1 Supplement	*/
S06G29D	4	/* Q1 Supplement	*/
S06G29E	4	/* Q1 Supplement	*/
S06G29F	4	/* Q1 Supplement	*/
S06G29G	4	/* Q1 Supplement	*/
S06G29H	4	/* Q1 Supplement	*/
S06G29I	4	/* Q1 Supplement	*/
S06G29J	4	/* Q1 Supplement	*/
S06G29K	4	/* Q1 Supplement	*/
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S06Q02	4	/* Q2 Supplement	*/
S06Q03	4	/* Q2 Supplement	*/
S06Q04	4	/* Q2 Supplement	*/
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S06Q06	4	/* Q2 Supplement	*/
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S06V06	4	/* Q2 Supplement	*/
S06V07	4	/* Q2 Supplement	*/
S06V08	4	/* Q2 Supplement	*/
S06V09	4	/* Q2 Supplement	*/
S06V10	4	/* Q2 Supplement	*/
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S06V11B	4	/* Q2 Supplement	*/
S06V11C	4	/* Q2 Supplement	*/
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S06V12E	4	/* Q2 Supplement	*/
S06V12F	4	/* Q2 Supplement	*/
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S06V14C	4	/* Q2 Supplement	*/
S06V14D	4	/* Q2 Supplement	*/
S06V14E	4	/* Q2 Supplement	*/
S06V14F	4	/* Q2 Supplement	*/
S06V14G	4	/* Q2 Supplement	*/
S06V14H	4	/* Q2 Supplement	*/

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S06V16	4	/* Q2 Supplement	*/
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S06V18A	4	/* Q2 Supplement	*/
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S06Y06A	4	/* Q4 Supplement	*/
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S06Y19D	4	/* Q4 Supplement	*/
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S06Y28B	4	/* Q4 Supplement	*/
S06Y28C	4	/* Q4 Supplement	*/
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S06Y29B	4	/* Q4 Supplement	*/
S06Y29C	4	/* Q4 Supplement	*/
S06Y30A	4	/* Q4 Supplement	*/
S06Y30B	4	/* Q4 Supplement	*/
S06Y30C	4	/* Q4 Supplement	*/
S06Y30D	4	/* Q4 Supplement	*/
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S06Y32A	4	/* Q4 Supplement	*/
S06Y32B	4	/* Q4 Supplement	*/
S06Y32C	4	/* Q4 Supplement	*/
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S06Y34C	4	/* Q4 Supplement	*/
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S06Y34G	4	/* Q4 Supplement	*/

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S06Y37L	4	/* Q4 Supplement	*/
S06Y37M	4	/* Q4 Supplement	*/
S06Y37N	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	*/
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N16E	8	/* CS flag variable	*/
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N16G	8	/* CS flag variable	*/

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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	*/
XSERVAFF	3	/* constructed	*/
XTNEXREG	3	/* constructed	*/
XBMI	8	/* constructed	*/
XBMICAT	3	/* constructed	*/
XENRLMT	8	/* constructed	*/
XENR_PCM	8	/* constructed	*/
XINS_COV	8	/* constructed	*/
XREGION	3	/* constructed	*/
XCATCH	8	/* constructed	*/
CONUS	3	/* constructed	*/
XOCONUS	3	/* constructed	*/
OUTCATCH	8	/* constructed	*/
XSEXA	8	/* constructed	*/
XBNFGRP	8	/* constructed	*/
/*KDISENRL	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_CESS	8 */	/* constructed	*/
HP_CESH	8	/* constructed	*/
/* HP_NORM	8 */	/* constructed	*/
HP_OBESE	8	/* constructed	*/
/* ADJ_CELL	\$7 */	/* constructed	*/
/* POSTC_O	\$3 */	/* constructed	*/
POSTCELL	\$7	/* constructed	*/
BWT	8	/* weights	*/
FWRWT	8	/* weights	*/
FWRWT1	8	/* weights	*/
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FWRWT5	8	/* weights	*/
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FWRWT60	8	/* weights	*/
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CFWT2	8	/* weights	*/
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CFWT9	8	/* weights	*/
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CFWT11	8	/* weights	*/
CFWT12	8	/* weights	*/
CFWT13	8	/* weights	*/
CFWT14	8	/* weights	*/
CFWT15	8	/* weights	*/
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CFWT18	8	/* weights	*/
CFWT19	8	/* weights	*/
CFWT20	8	/* weights	*/
CFWT21	8	/* weights	*/

CFWT22	8	/* weights	*/
CFWT23	8	/* weights	*/
CFWT24	8	/* weights	*/
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CFWT28	8	/* weights	*/
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CFWT33	8	/* weights	*/
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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	*/
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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;  
  
LABEL XCATCH = "XCATCH - Catchment Area (Reporting) ";  
FORMAT XCATCH CACR.;  
BY MPRID;  
RUN;  
  
TITLE1 "2006 DOD Quarterly Health Care Survey (6077-300)";  
*TITLE2 "Program Name: ADDWGTS.SAS By Keith Rathbun";  
TITLE3 "Program Inputs: &DSNI_1..SD2 -- &DSNI_2..SD2";  
TITLE4 "Program Outputs: &DSNO..SD2";  
  
PROC CONTENTS POSITION; RUN;
```

F.16 WEIGHTING\FIX2003XCATCH.SAS - FIX CATCHMENT REPORTING VARIABLE (XCATCH) FOR 2003 - ANNUAL.

```

*****
*
* PROGRAM: Fix2003XCATCH.SAS
* PURPOSE: Fix catchment reporting variable (XCATCH) for 2003
* WRITTEN January 10, 2006 BY Keith Rathbun
* TASK: 2006 DoD Database Development (6244-300)
*
* INPUTS: 1) HCSyyq_v.SD2 - 2003 DoD Quarterly Adult HCSDB datasets
*          2) FRAMEA.SD2 - 2003 Quarterly Sample Frames
*          3) SAMPLA02.SD2 - 2003 DoD Quarterly Samples
*          4) HCS03A_1.SD2 - 2003 Combined Annual HCSDB dataset
*
* OUTPUTS: 1) XCATCY03.SD2 - 2003 combined corrected Annual HCSDB dataset
*            (output in the 2006 data area)
*
* NOTES: 1) XCATCH did not get properly reconstructed on the 2003 annual
*          dataset
*
*****;
OPTIONS NOFMterr NOCENTER LS=132 PS=80 COMPRESS=YES;
LIBNAME OUT V612 "..\..\DATA";
LIBNAME IN2003 V612 "..\..\2003\DATA";

%MACRO GETRESP(LOC1=, LOC2=, DSNI=, DSNO=);

    LIBNAME IN V612 "..\..\&LOC1.\DATA\AFINAL";
    PROC SORT DATA=IN.&DSNI.(KEEP=MPRID PCM DCATCH SERVAFF XREGION) OUT=TEMP1;
        BY MPRID;
    RUN;

    LIBNAME IN V612 "..\..\&LOC2.\DATA\AFINAL";
    PROC SORT DATA=IN.SAMPLA02(KEEP=MPRID ENRID) OUT=TEMP2;
        BY MPRID;
    RUN;

    DATA &DSNO;
        MERGE TEMP1(IN=IN1) TEMP2(IN=IN2);
        BY MPRID;
        IF IN1 AND IN2;
    RUN;

%MEND GETRESP;

%GETRESP(LOC1=Q1_2003T, LOC2=Q1_2003, DSNI=HCS031_1, DSNO=HCS031_R);
%GETRESP(LOC1=Q2_2003T, LOC2=Q2_2003, DSNI=HCS032_1, DSNO=HCS032_R);
%GETRESP(LOC1=Q3_2003T, LOC2=Q3_2003, DSNI=HCS033_1, DSNO=HCS033_R);
%GETRESP(LOC1=Q4_2003, LOC2=Q4_2003, DSNI=HCS034_1, DSNO=HCS034_R);

%MACRO GETFRAME(LOC=);

    LIBNAME IN V612 "..\..\&LOC.\DATA\AFINAL";
    PROC SORT DATA=IN.FRAMEA(KEEP=MPRID D_FAC D_PAR D_HEALTH) OUT=&LOC.;
        BY MPRID;
    RUN;

%MEND GETFRAME;

%GETFRAME(LOC=Q1_2003);
%GETFRAME(LOC=Q2_2003);
%GETFRAME(LOC=Q3_2003);
%GETFRAME(LOC=Q4_2003);

DATA Q1;
    MERGE Q1_2003(IN=IN1) HCS031_R(IN=IN2);
    BY MPRID;
    IF IN1 AND IN2;
RUN;

DATA Q2;
    MERGE Q2_2003(IN=IN1) HCS032_R(IN=IN2);

```



```

BY MPRID;
IF IN1 AND IN2;
RUN;

DATA Q3;
MERGE Q3_2003(IN=IN1) HCS033_R(IN=IN2);
BY MPRID;
IF IN1 AND IN2;
RUN;

DATA Q4;
MERGE Q4_2003(IN=IN1) HCS034_R(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;

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=IN2003.HCS03A_1(DROP=XCATCH) OUT=HCS03A_1;
BY MPRID;
RUN;

DATA OUT.XCATCY03;
MERGE HCS03A_1(IN=IN1) TMPXCTCH(IN=IN2);
BY MPRID;
KEEP MPRID XCATCH QUARTER;
RUN;

TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: Fix2003XCATCH.SAS By Keith Rathbun";
TITLE3 "Program Inputs: 2003 HCSDB sample and analysis files";
TITLE4 "Program Output: XCATCY03.SD2 - CY 2003 Combined XCATCH dataset";

PROC FREQ;
TABLES XCATCH /MISSING LIST;
RUN;

```

F.17 WEIGHTING\FIX2004XCATCH.SAS - FIX CATCHMENT REPORTING VARIABLE (XCATCH) FOR 2004 - ANNUAL.

```

*****
*
* PROGRAM: Fix2004XCATCH.SAS
* PURPOSE: Fix catchment reporting variable (XCATCH) for 2004
* WRITTEN January 25, 2006 BY Keith Rathbun
* TASK: 2006 DoD Database Development (6244-300)
*
* INPUTS: 1) HCS04A_1.SD2 - 2004 Combined Annual HCSDB dataset
*
* OUTPUTS: 1) XCATCY04.SD2 - 2004 combined corrected Annual HCSDB dataset
*           (output in the 2006 data area)
*
* NOTES: 1) XCATCH did not get properly reconstructed on the 2004 annual
*          dataset
*
*****;
OPTIONS NOFMterr NOCENTER LS=132 PS=80 COMPRESS=YES;
LIBNAME OUT V612 "..\..\DATA";
LIBNAME IN2004 V612 "..\..\2004\DATA";

PROC SORT DATA=IN2004.HCS04A_1
          (KEEP=MPRID PCM ENRID DCATCH D_HEALTH D_FAC D_PAR SERVAFF XREGION)
          OUT=TEMP1;
  BY MPRID;
RUN;

DATA TEMP1;
  SET TEMP1;

  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;

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=IN2004.HCS04A_1(DROP=XCATCH) OUT=HCS04A_1;
  BY MPRID;
RUN;

DATA OUT.XCATCY04;
  MERGE HCS04A_1(IN=IN1) TMPXCTCH(IN=IN2);
  BY MPRID;
  KEEP MPRID XCATCH QUARTER;
RUN;

TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: Fix2004XCATCH.SAS By Keith Rathbun";
TITLE3 "Program Inputs: 2004 HCSDB sample and analysis files";
TITLE4 "Program Output: XCATCY04.SD2 - CY 2003 Combined XCATCH dataset";

PROC FREQ;

```

```
TABLES XCATCH /MISSING LIST;  
RUN;
```

F.18 WEIGHTING\FIX2005XCATCH.SAS - FIX CATCHMENT REPORTING VARIABLE (XCATCH) FOR 2005 - ANNUAL.

```

*****
*
* PROGRAM: Fix2005XCATCH.SAS
* PURPOSE: Fix catchment reporting variable (XCATCH) for 2005
* WRITTEN  October 16, 2006 BY Keith Rathbun
* TASK:    2006 DoD Database Development (6244-300)
*
* INPUTS:  1) COMB2005.SD2 - 2005 Combined Annual HCSDB dataset
*
* OUTPUTS: 1) XCATCY05.SD2 - 2005 combined corrected Annual HCSDB dataset
*           (output in the 2006 data area)
*
* NOTES:   1) XCATCH did not get properly reconstructed on the 2005 annual
*           dataset
*
*****;
OPTIONS NOFMterr NOCENTER LS=132 PS=80 COMPRESS=YES;
LIBNAME OUT V612 "..\..\DATA";
LIBNAME IN2005 V612 "..\..\2005\DATA";

PROC SORT DATA=IN2005.COMB2005
      (KEEP=MPRID ENRID PCM DCATCH D_HEALTH D_FAC D_PAR SERVAFF XREGION)
      OUT=TEMP1;
      BY MPRID;
RUN;

DATA TEMP1;
  SET TEMP1;

  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;

  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=IN2005.HCS05A_1(DROP=XCATCH) OUT=HCS05A_1;
      BY MPRID;
RUN;

DATA OUT.XCATCY05;
  MERGE HCS05A_1(IN=IN1) TMPXCTCH(IN=IN2);
  BY MPRID;
  KEEP MPRID XCATCH QUARTER;
RUN;

TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: Fix2005XCATCH.SAS By Keith Rathbun";
TITLE3 "Program Inputs: 2005 HCSDB sample and analysis files";
TITLE4 "Program Output: XCATCY05.SD2 - CY 2005 Combined XCATCH dataset";

PROC FREQ;

```

```
TABLES XCATCH /MISSING LIST;  
RUN;
```

F.19 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.SD2 - Temporary SAS dataset
*            2) TMA_REV.SD2 - TMA-provided catchment definitions
*
* OUTPUT:    1) TEMP.SD2 - 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=Q4FY2006;

LIBNAME TMA V612 "..\..\..\&smplqtr\DATA\AFINAL";
DATA TEMP(KEEP=MPRID GEOCELL PCM ENRID XTNEXXREG XSERVAFF XOCONUS);
  SET TEMP1;
  BY MPRID;
  if pcm = 'MTF' then do;
    %INCLUDE "..\..\..\&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 geocell=dcatch;
RUN;

PROC SORT DATA=TEMP; BY GEOCELL; RUN;

PROC SORT DATA=TMA.TMA_REV OUT=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 "..\..\..\&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;
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)";
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.20 WEIGHTING\CREATEFY04_05.SAS - CREATE FY2004 AND FY2005 DATABASES WITH ALL OF THE NECESSARY REPORTING VARIABLES. - ANNUAL.

```

*****
*
* PROGRAM: CreateFY04_05.SAS
* PURPOSE: Create FY2004 and FY2005 databases with all of the necessary
*          reporting variables.
* WRITTEN: October 25, 2006 By Keith Rathbun
* TASK:    2006 DoD Database Development (6244-300)
*
* INPUTS:  1) HCSyyA_1.SD2 - Combined Annual CY 2003-2005 HCSDB datasets
*          (Where yy = 03-05)
*
* OUTPUTS: 1) HCSFYyyA.SD2 - FY 2004-2005 HCSDB datasets with XCATCH
*          (Where yy = 04-05)
*
* NOTES:   1) Reconstruct XCATCH for FY2004 and FY2005. Also, keep all of
*          the necessary beneficiary report variables.
*          2) Fix2003XCATCH.SAS, Fix2004XCATCH.SAS, and Fix2005XCATCH.SAS
*          must be run prior to running this program. These programs
*          generate XCATCY03.SD2, XCATCY04.SD2 and XCATCY05.SD2.
*
*****;
OPTIONS NOFMterr NOCENTER LS=132 PS=80 COMPRESS=YES;
LIBNAME OUT V612 "..\..\DATA";
LIBNAME IN2003 V612 "..\..\2003\DATA";
LIBNAME IN2004 V612 "..\..\2004\DATA";
LIBNAME IN2005 V612 "..\..\2005\DATA";

*****
* Rename 2003 beneficiary report variables to be consistent with 2006 names.
*****;
%MACRO RENAME3TO6();
  RENAME H03072 = H06066; *Health Status;
  RENAME H03007 = H06007; *How Long in Health Plan;
  RENAME H03009 = H06011; *Problems Getting Personal Doctor/Nurse;
  RENAME H03013 = H06013; *Problems Getting Referral to Specialist;
  RENAME H03027 = H06027; *Problems Getting Necessary Care;
  RENAME H03028 = H06029; *Delays in Care while Awaiting Approval;
  RENAME H03018 = H06017; *Advice over Telephone;
  RENAME H03020 = H06022; *Wait for Routine Visit;
  RENAME H03023 = H06019; *Wait for Urgent Care;
  RENAME H03029 = H06030; *Wait More than 15 Minutes Past Appointment;
  RENAME H03032 = H06033; *Listens Carefully;
  RENAME H03033 = H06034; *Explains so You can Understand;
  RENAME H03034 = H06035; *Shows Respect;
  RENAME H03035 = H06036; *Spends Time with You;
  RENAME H03030 = H06031; *Courteous and Respectful;
  RENAME H03031 = H06032; *Helpful;
  RENAME H03044 = H06043; *Problem Finding/Understanding Written Material;
  RENAME H03046 = H06045; *Problem Getting Help from Customer Service;
  RENAME H03051 = H06047; *Problem with Paperwork;
  RENAME H03040 = H06040; *Claims Handled in a Reasonable Time;
  RENAME H03041 = H06041; *Claims Handled Correctly;
  RENAME H03036 = H06037; *Health Care;
  RENAME H03052 = H06048; *Health Plan;
  RENAME H03011 = H06009; *Primary Care Manager;
  RENAME H03015 = H06015; *Specialty Care;
  RENAME H03062 = H06055;
%MEND;

*****
* Rename 2004 beneficiary report variables to be consistent with 2006 names.
*****;
%MACRO RENAME4TO6();
  RENAME H04075 = H06066; *Health Status;
  RENAME H04007 = H06007; *How Long in Health Plan;
  RENAME H04029 = H06028; *Need Approval form Health Plan?;
  RENAME H04011 = H06011; *Problems Getting Personal Doctor/Nurse;
  RENAME H04013 = H06013; *Problems Getting Referral to Specialist;
  RENAME H04028 = H06027; *Problems Getting Necessary Care;

```

```

RENAME H04030 = H06029; *Delays in Care while Awaiting Approval;
RENAME H04018 = H06017; *Advice over Telephone;
RENAME H04023 = H06022; *Wait for Routine Visit;
RENAME H04020 = H06019; *Wait for Urgent Care;
RENAME H04031 = H06030; *Wait More than 15 Minutes Past Appointment;
RENAME H04034 = H06033; *Listens Carefully;
RENAME H04035 = H06034; *Explains so You can Understand;
RENAME H04036 = H06035; *Shows Respect;
RENAME H04037 = H06036; *Spends Time with You;
RENAME H04032 = H06031; *Courteous and Respectful;
RENAME H04033 = H06032; *Helpful;
RENAME H04045 = H06043; *Problem Finding/Understanding Written Material;
RENAME H04047 = H06045; *Problem Getting Help from Customer Service;
RENAME H04053 = H06047; *Problem with Paperwork;
RENAME H04041 = H06040; *Claims Handled in a Reasonable Time;
RENAME H04042 = H06041; *Claims Handled Correctly;
RENAME H04038 = H06037; *Health Care;
RENAME H04054 = H06048; *Health Plan;
RENAME H04009 = H06009; *Primary Care Manager;
RENAME H04015 = H06015; *Specialty Care;
RENAME H04063 = H06055;

%MEND;

*****
* Rename 2005 beneficiary report variables to be consistent with 2006 names.
*****
%MACRO RENAME5TO6();
  RENAME H05066 = H06066; *Health Status;
  RENAME H05007 = H06007; *How Long in Health Plan;
  RENAME H05028 = H06028; *Need Approval form Health Plan?;
  RENAME H05011 = H06011; *Problems Getting Personal Doctor/Nurse;
  RENAME H05013 = H06013; *Problems Getting Referral to Specialist;
  RENAME H05027 = H06027; *Problems Getting Necessary Care;
  RENAME H05029 = H06029; *Delays in Care while Awaiting Approval;
  RENAME H05017 = H06017; *Advice over Telephone;
  RENAME H05022 = H06022; *Wait for Routine Visit;
  RENAME H05019 = H06019; *Wait for Urgent Care;
  RENAME H05030 = H06030; *Wait More than 15 Minutes Past Appointment;
  RENAME H05033 = H06033; *Listens Carefully;
  RENAME H05034 = H06034; *Explains so You can Understand;
  RENAME H05035 = H06035; *Shows Respect;
  RENAME H05036 = H06036; *Spends Time with You;
  RENAME H05031 = H06031; *Courteous and Respectful;
  RENAME H05032 = H06032; *Helpful;
  RENAME H05043 = H06043; *Problem Finding/Understanding Written Material;
  RENAME H05045 = H06045; *Problem Getting Help from Customer Service;
  RENAME H05047 = H06047; *Problem with Paperwork;
  RENAME H05040 = H06040; *Claims Handled in a Reasonable Time;
  RENAME H05041 = H06041; *Claims Handled Correctly;
  RENAME H05037 = H06037; *Health Care;
  RENAME H05048 = H06048; *Health Plan;
  RENAME H05009 = H06009; *Primary Care Manager;
  RENAME H05015 = H06015; *Specialty Care;
  RENAME H05055 = H06055;

%MEND;

*****
* Get beneficiary report variables.
*****
%MACRO GETRVAR();
  %DO YR = 3 %TO 5;
    DATA CAT&YR._Q1TOQ3 CAT&YR._Q4;
      SET OUT.XCATCY0&YR;
      IF SUBSTR(QUARTER,1,2) = "Q4" THEN OUTPUT CAT&YR._Q4;
      ELSE OUTPUT CAT&YR._Q1TOQ3;
    RUN;
    DATA TEMP&YR._Q1TOQ3(KEEP=MPRID STRATUM FWRWT DAGEQY FIELDAGE
      XTNEXREG SERVAFF CONUS ENBGSMPL SREDA XSEXA XBNFGRP
      ADJ_CELL XINS_COV XENR_PCM XREGION XBMICAT QUARTER
      HP_BP HP_MAMOG HP_PAP HP_PRNTL HP_SMOKH mpcsmpl
      H06066 H06007 H06028
      H06011 H06013 H06027 H06029 H06017 H06022 H06019 H06030
      H06033 H06034 H06035 H06036 H06031 H06032 H06043 H06045

```

```

H06047 H06040 H06041 H06037 H06048 H06009 H06015 H06055)
TEMP&YR._Q4(KEEP=MPRID STRATUM FWRWT DAGEQY FIELDAGE
XTNEXREG SERVAFV CONUS ENBGSMP1 SREDA XSEXV XBNFGRP
ADJ_CELL XINS_COV XENR_PCM XREGION XBMICAT QUARTER
HP_BP HP_MAMOG HP_PAP HP_PRNTL HP_SMOKH mpcsmpl
H06066 H06007 H06028
H06011 H06013 H06027 H06029 H06017 H06022 H06019 H06030
H06033 H06034 H06035 H06036 H06031 H06032 H06043 H06045
H06047 H06040 H06041 H06037 H06048 H06009 H06015 H06055);
SET IN200&YR..HCS0&YR.A_1;
FORMAT _ALL_;
IF SUBSTR(QUARTER,1,2) = "Q4" THEN DO;
  %IF &YR = 3 %THEN %DO;
    %RENAME3TO6;
  %END;
  %ELSE %IF &YR = 4 %THEN %DO;
    %RENAME4TO6;
  %END;
  %ELSE %IF &YR = 5 %THEN %DO;
    %RENAME5TO6;
  %END;
  OUTPUT TEMP&YR._Q4;
END;
ELSE OUTPUT TEMP&YR._Q1TOQ3;
RUN;
PROC SORT DATA=CAT&YR._Q1TOQ3; BY MPRID; RUN;
PROC SORT DATA=CAT&YR._Q4; BY MPRID; RUN;
PROC SORT DATA=TEMP&YR._Q1TOQ3; BY MPRID; RUN;
PROC SORT DATA=TEMP&YR._Q4; BY MPRID; RUN;
DATA TEMP&YR._Q1TOQ3;
  MERGE TEMP&YR._Q1TOQ3 CAT&YR._Q1TOQ3;
  BY MPRID;
RUN;
DATA TEMP&YR._Q4;
  MERGE TEMP&YR._Q4 CAT&YR._Q4;
  BY MPRID;
RUN;
%END;
%MEND GETRVAR;

%GETRVAR;

*****
* Construct FY2004 file (Q4CY2003-Q3CY2004).
*****;
DATA OUT.HCSFY04A;
  SET TEMP3_Q4 TEMP4_Q1TOQ3(RENAME=(ADJ_CELL=X));
  BY MPRID;
  DROP X;
  LENGTH ADJ_CELL 8; *Change adjusted cell to numeric for consistency;
  ADJ_CELL = X;
  LABEL ADJ_CELL = "Final Adjusted Cell";
  *****
  * 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;
  *****
  * Create XOCONUS for Europe, Pacific and Latin America
  *****;
  IF XREGION = 13 THEN XOCONUS = 1;
  ELSE IF XREGION = 14 THEN XOCONUS = 2;
  ELSE IF XREGION = 15 THEN XOCONUS = 3;
RUN;

*****
* Construct FY2005 file (Q4CY2004-Q3CY2005).
*****;
DATA OUT.HCSFY05A;
  SET TEMP4_Q4 TEMP5_Q1TOQ3;
  BY MPRID;

```

```

*****
* Create XOCONUS for Europe, Pacific and Latin America
*****;
IF      XREGION = 13 THEN XOCONUS = 1;
ELSE IF XREGION = 14 THEN XOCONUS = 2;
ELSE IF XREGION = 15 THEN XOCONUS = 3;
RUN;

TITLE1 "PROGRAM: CreateFY04_05.SAS - Create FY2004 and FY2005 databases with reporting variables.";
TITLE2 "WRITTEN: October 25, 2006 By Keith Rathbun";
TITLE3 "TASK:      2006 DoD Database Development (6244-300)";

TITLE4 "HCSFY04A dataset";
PROC CONTENTS DATA=OUT.HCSFY04A; RUN;

PROC FREQ DATA=OUT.HCSFY04A;
  TABLES QUARTER*XTNEXREG*XREGION*CONUS /MISSING LIST;
RUN;

TITLE4 "HCSFY05A dataset";
PROC CONTENTS DATA=OUT.HCSFY05A; RUN;

PROC FREQ DATA=OUT.HCSFY05A;
  TABLES QUARTER*XTNEXREG*XREGION*CONUS /MISSING LIST;
RUN;

```

F.21 WEIGHTING\CREPWT.SAS - CALCULATE COMBINED REPLICATE WEIGHTS - ANNUAL.

```

*****
* PROGRAM: DOD\2006\Programs\Weighting\CREPWT.SAS
* TASK: 2006 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
*
* INPUTS: REPWTP.sas7bdat - Quarterly new weights
*
* OUTPUTS: crepwt.sd2 - Combined annual replicates for new weights
*
*****
*;
LIBNAME IN1 v8 "..\..\..\Q1FY2006t\data\afinal";
LIBNAME IN2 v8 "..\..\..\Q2FY2006t\data\afinal";
LIBNAME IN3 v8 "..\..\..\Q3FY2006t\data\afinal";
LIBNAME IN4 v8 "..\..\..\Q4FY2006\data\afinal";
LIBNAME OUTv6 v6 "..\..\..\2006\Data"; /* crepwt.sd2 */

%include "..\..\..\Q2_2005t\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;
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 cfwt cfwt1-cfwt240;
output out=sums sum(cfwt cfwt1-cfwt240) = cfwt cfwt1-cfwt240;
RUN;

proc transpose data=sums out=t_sums;
VAR cfwt cfwt1-cfwt240;
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 outv6.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=outv6.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=);
proc sort data=in&qrt..repwtp(keep=mprid) out=repwt;
by mprid;
run;

proc sort data=in&qrt..framea_postwt
(keep=mprid cacsmp1 enbgsmpl ebg_com tnexreg tnex_grp servaff) out=frame&qrt.;
by mprid;
run;

data merged&qrt.;
merge repwt(in=A) frame&qrt.(in=B);
by mprid;
if a and b;
if tnex_grp in ('N', 'S', 'W') then conus=1;
else if tnex_grp = 'O' then conus=0;
run;

title3 "Check the construction of conus for quarter &qrt.";
proc freq data=merged&qrt.;
tables conus*tnex_grp/missing list;
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=outv6.crepwt(keep=mprid fnstatus bwt fwrwt cfw) 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, cacsmdl, cfw, deff_overall, deff_cac );
%design_effects_unequal_weights ( postwt_fnl, enbgsmpl, cfw, deff_overall, deff_enb );
%design_effects_unequal_weights ( postwt_fnl, ebg_com, cfw, deff_overall, deff_ebgcom );
%design_effects_unequal_weights ( postwt_fnl, tnexreg, cfw, deff_overall, deff_tnexreg );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp, cfw, deff_overall, deff_tnexgrp );
%design_effects_unequal_weights ( postwt_fnl, conus, cfw, deff_overall, deff_conus );
%design_effects_unequal_weights ( postwt_fnl, servaff, cfw, deff_overall, deff_servaff );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp servaff, cfw, deff_overall,
deff_TNEXservaff );

title3 'Design Effects Overall';
proc print data = deff_overall;
run;

*** For Catchment Area ***;
title3 "Design Effects for cacsmdl";
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 EBG_COM Groups ***;
title3 'Design Effects for EBG_COM ';
proc print data= deff_ebgcom;
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.22.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 V612 "..\..\DATA\FMTLIB";

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 DSN3 = XOCONUS;
%LET DSN4 = CONUS;
%LET DSN5 = SEXSMPL;
%LET DSN6 = EBG_COM;
%LET DSN7 = CACSMPL;
%LET DSN8 = PATCAT;
%LET DSN9 = SERVAF;
%LET DSN10 = SVCSMPL;
%LET DSN11 = XTNEXREG;
%LET DSN12 = PATCATSVCSMPL;
%LET DSN13 = PATCATSEXSMPL;
%LET DSN14 = XTNEXREGCACSMPL;

*****
* Assign Q1-Q4 and annual spreadsheet file names and year.
*****;
%LET FILE1 = ..\..\Q1FY2006t\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE2 = ..\..\Q2FY2006t\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE3 = ..\..\Q3FY2006t\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE4 = ..\..\Q4FY2006\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE5 = RESPONSE_RATES.XLS;
%LET YEAR = 2006;

*****
* 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;
  %ELSE %IF &NUMDOM = 2 %THEN %DO; * Read 4 columns in sheet;
    FILENAME INDATA DDE "excel|&DSN!r5c1:r9999c4";
  %END;
%END;

```

```

%END;
%ELSE %IF &NUMDOM = 3 %THEN %DO; * Read 5 columns in sheet;
  FILENAME INDATA DDE "excel|&DSN!r5c1:r999c5";
%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=2);
    %READXLS(DSN=&DSN12, NUMDOM=2);
    %READXLS(DSN=&DSN13, NUMDOM=2);

    *****
    * 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=2);
%MERGEIT(DSN=&DSN12, NUMDOM=2);
%MERGEIT(DSN=&DSN13, NUMDOM=2);

*****
* 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;
  %END;
%MEND WRITEXLS;

```

```

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);
%WRITEXLS(DSN=&DSN4, NUMDOM=1);
%WRITEXLS(DSN=&DSN5, NUMDOM=1);
%WRITEXLS(DSN=&DSN6, NUMDOM=1);
%WRITEXLS(DSN=&DSN7, NUMDOM=1);
%WRITEXLS(DSN=&DSN8, NUMDOM=1);
%WRITEXLS(DSN=&DSN9, NUMDOM=1);

```

```
%WRITEMLS(DSN=&DSN10, NUMDOM=1);
%WRITEMLS(DSN=&DSN11, NUMDOM=2);
%WRITEMLS(DSN=&DSN12, NUMDOM=2);
%WRITEMLS(DSN=&DSN13, NUMDOM=2);

*****
* Quit spreadsheet application.
*****;
FILENAME CMDS DDE "EXCEL|SYSTEM";
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[QUIT]';
RUN;
```

F.22.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
*
* 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;
LIBNAME Q1t V612 "..\..\Q1FY2006t\DATA\AFINAL"; * Q1 mergeq with late response;
LIBNAME Q2t V612 "..\..\Q2FY2006t\DATA\AFINAL"; * Q2 mergeq with late response;
LIBNAME Q3t V612 "..\..\Q3FY2006t\DATA\AFINAL"; * Q3 mergeq with late response;
LIBNAME Q4 V612 "..\..\Q4FY2006\DATA\AFINAL"; * Q4 mergeq;

LIBNAME LIBRARY V612 "..\..\DATA\FMTLIB";

TITLE1 "Program: TABLE02.SAS";
TITLE2 "Purpose: Compute response rates by DOMAIN";

%LET OFILES = ..\..\DATA\Response_Rate\;
%LET QUARTER = 2006 Combined Annual;

PROC FORMAT;
VALUE $EBGFMT
    "01" ='Active duty'
    "02" ='Active duty family, enrollee'
    "03" ='Active duty family, non-enrollee'
    "04" ='Retired, <65, enrollee'
    "05" ='Retired, <65, non-enrollee'
    "06" ='Retired, 65+';
VALUE TNEX
    . = 'Missing Data'
    1 = 'North'
    2 = 'South'
    3 = 'West'
    4 = 'Overseas' ;
RUN;

*****

```



```

* Create ebg_com
*****;

%macro create_ebg(qrt=);

DATA MERGEQ&qrt.;
SET Q&qrt..MERGEQ;
  SELECT (enbgsmpl);
    WHEN ('01') EBG_COM = '01';
    WHEN ('02') EBG_COM = '02';
    WHEN ('03') EBG_COM = '02';
    WHEN ('04') EBG_COM = '03';
    WHEN ('05') EBG_COM = '04';
    WHEN ('06') EBG_COM = '04';
    WHEN ('07') EBG_COM = '05';
    WHEN ('08') EBG_COM = '06';
    WHEN ('09') EBG_COM = '06';
    WHEN ('10') EBG_COM = '06';
  END;
  FORMAT EBG_COM $EBGFMT.;
RUN;

title3 "Check q&qrt.";
PROC FREQ DATA=MERGEQ&qrt.;
  TABLES EBG_COM*ENBGSMPL/MISSING LIST;
RUN;
%mend;

%create_ebg(qrt=1t);
%create_ebg(qrt=2t);
%create_ebg(qrt=3t);
%create_ebg(qrt=4);

/*Combine 4 quarters*/
DATA MERGERR;
  SET MERGEQ1t MERGEQ2t MERGEQ3t MERGEQ4 ;
  IF FNSTATUS = 30 THEN FNSTATUS = 31; *Added to conform with Q3 update to FNSTATUS;
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;

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 "&OFILES.TABLE02&FORM..OUT" RECFM=V LRECL=9999;

```

```

PUT; PUT; PUT;
PUT @001 "TABLE 2: OVERALL RESPONSE RATES SUMMARY";
PUT @001 "11-17-2004, TASK: 6077-300";
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 "&OFILES.&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 "&OFILES.&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=xoconus, INPT=mergeRR, FORM="FORM A");
%PROCESS1(DOMAIN1=conus, INPT=mergeRR, FORM="FORM A");
%PROCESS1(DOMAIN1=sexsmpl, INPT=mergeRR, FORM="FORM A");
%PROCESS1(DOMAIN1=ebg_com, 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");

*****
* PROCESS TRIPLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****;
*%PROCESS3(DOMAIN1=xxxxxxx, DOMAIN2=xxxxxxx, DOMAIN3=xxxxxxx, 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";
    END;
  END;

```

```

        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;
%MEND CREATXLS;

%CREATXLS(DSN=TABLE02A, NUMDOM=0);
*%CREATXLS(DSN=XREGION, NUMDOM=1);
%CREATXLS(DSN=XOCONUS, NUMDOM=1);
%CREATXLS(DSN=CONUS, NUMDOM=1);
%CREATXLS(DSN=SEXSMPL, NUMDOM=1);
%CREATXLS(DSN=EBG_COM, 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);

*****
* Quit spreadsheet application.
*****;
FILENAME CMDS DDE "EXCEL|SYSTEM";
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[QUIT]';
RUN;
```

F.22.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 "11-17-2004, TASK: 6077-300";
  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.22.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 SPECIFICATION FOR
2006 TRICARE BENEFICIARY REPORTS – QUARTERS I-IV**

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G.1.A Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\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 H06007>=2) THEN GROUP1 = 1
*     IF (XENR_PCM IN (1,2,6) AND H06007>=2) THEN GROUP2 = 1
*     IF (XENR_PCM = 3,7 AND H06007>=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.
*
*

```

```

* INPUTS:  1) HCSyqq_1 - DoD Quarterly HCS Database
*
* OUTPUTS: 1) GROUP1-8.SD2 - 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.
*

```

```

*****;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr NOOVP COMPRESS=YES;
LIBNAME OUT V612 "DATA";
LIBNAME IN1 V612 "..\..\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.HCS064_1(KEEP=
    MPRID
    FIELDAGE /*MJS 01/26/04*/
    XTNEXREG
    SERVAFF /*KRR 04/09/04*/

```

```

CONUS
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.
H06028
/* Getting Needed Care */
H06011
H06013
H06027
H06029
/* Getting Care Quickly */
H06017
H06022
H06019
H06030
/* How Well Doctors Communicate */
H06033
H06034
H06035
H06036
/* Courteous and Helpful Office Staff */
H06031
H06032
/* Customer Service */
H06043
H06045
H06047
/* Claims Processing */
H06040
H06041 /*****/
H06066 /* Health Status */
H06037 /* Health Care Rating */
H06048 /* Health Plan Rating */
H06009 /* Personal Doctor Rating */
H06015 /* Specialist Rating */
H06007 /* 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) THEN DELETE;
/* 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;

* IF H02047=2 THEN H02048=1;
*****
* 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 (XINS_COV IN (1,2,6) AND H06007>=2) THEN GROUP1 = 1;
IF (XENR_PCM IN (1,2,6) AND H06007>=2) THEN GROUP2 = 1;
IF (XENR_PCM IN (3,7) AND H06007>=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;

*****
* 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 H06028 = 2 THEN H06029=3; /* ES 4/28/04 - Change in scoring method*/

IF H06017 = 1 THEN R06017 = 1;
ELSE IF H06017 = 2 THEN R06017 = 1;
ELSE IF H06017 = 3 THEN R06017 = 2;
ELSE IF H06017 = 4 THEN R06017 = 3;
ELSE IF H06017 < 0 THEN R06017 = .;

IF H06022 = 1 THEN R06022 = 1;
ELSE IF H06022 = 2 THEN R06022 = 1;
ELSE IF H06022 = 3 THEN R06022 = 2;
ELSE IF H06022 = 4 THEN R06022 = 3;
ELSE IF H06022 < 0 THEN R06022 = .;

IF H06019 = 1 THEN R06019 = 1;
ELSE IF H06019 = 2 THEN R06019 = 1;
ELSE IF H06019 = 3 THEN R06019 = 2;
ELSE IF H06019 = 4 THEN R06019 = 3;
ELSE IF H06019 < 0 THEN R06019 = .;

IF H06030 = 1 THEN R06030 = 1;
ELSE IF H06030 = 2 THEN R06030 = 1;
ELSE IF H06030 = 3 THEN R06030 = 2;
ELSE IF H06030 = 4 THEN R06030 = 3;
ELSE IF H06030 < 0 THEN R06030 = .;

IF H06031 = 1 THEN R06031 = 1;
ELSE IF H06031 = 2 THEN R06031 = 1;
ELSE IF H06031 = 3 THEN R06031 = 2;
ELSE IF H06031 = 4 THEN R06031 = 3;
ELSE IF H06031 < 0 THEN R06031 = .;

IF H06032 = 1 THEN R06032 = 1;
ELSE IF H06032 = 2 THEN R06032 = 1;
ELSE IF H06032 = 3 THEN R06032 = 2;
ELSE IF H06032 = 4 THEN R06032 = 3;
ELSE IF H06032 < 0 THEN R06032 = .;

IF H06033 = 1 THEN R06033 = 1;
ELSE IF H06033 = 2 THEN R06033 = 1;
ELSE IF H06033 = 3 THEN R06033 = 2;
ELSE IF H06033 = 4 THEN R06033 = 3;
ELSE IF H06033 < 0 THEN R06033 = .;

IF H06034 = 1 THEN R06034 = 1;
ELSE IF H06034 = 2 THEN R06034 = 1;
ELSE IF H06034 = 3 THEN R06034 = 2;
ELSE IF H06034 = 4 THEN R06034 = 3;
ELSE IF H06034 < 0 THEN R06034 = .;

IF H06035 = 1 THEN R06035 = 1;
ELSE IF H06035 = 2 THEN R06035 = 1;
ELSE IF H06035 = 3 THEN R06035 = 2;
ELSE IF H06035 = 4 THEN R06035 = 3;
ELSE IF H06035 < 0 THEN R06035 = .;

```

```

IF H06036 = 1      THEN R06036 = 1;
ELSE IF H06036 = 2 THEN R06036 = 1;
ELSE IF H06036 = 3 THEN R06036 = 2;
ELSE IF H06036 = 4 THEN R06036 = 3;
ELSE IF H06036 < 0 THEN R06036 = .;

```

```

IF H06040 = 1      THEN R06040 = 1;
ELSE IF H06040 = 2 THEN R06040 = 1;
ELSE IF H06040 = 3 THEN R06040 = 2;
ELSE IF H06040 = 4 THEN R06040 = 3;
ELSE IF H06040 < 0 THEN R06040 = .;

```

```

IF H06041 = 1      THEN R06041 = 1;
ELSE IF H06041 = 2 THEN R06041 = 1;
ELSE IF H06041 = 3 THEN R06041 = 2;
ELSE IF H06041 = 4 THEN R06041 = 3;
ELSE IF H06041 < 0 THEN R06041 = .;

```

```

*****

```

```

* Recode variables to one missing condition ".".
* This also renames all the "H0xxxx" to "R0xxxx".

```

```

*****;

```

```

R06011 = H06011;  IF R06011 < 0 THEN R06011 = .;
R06009 = H06009;  IF R06009 < 0 THEN R06009 = .;
R06013 = H06013;  IF R06013 < 0 THEN R06013 = .;
R06015 = H06015;  IF R06015 < 0 THEN R06015 = .;
R06027 = H06027;  IF R06027 < 0 THEN R06027 = .;
R06029 = H06029;  IF R06029 < 0 THEN R06029 = .;
R06037 = H06037;  IF R06037 < 0 THEN R06037 = .;
R06043 = H06043;  IF R06043 < 0 THEN R06043 = .;
R06045 = H06045;  IF R06045 < 0 THEN R06045 = .;
R06047 = H06047;  IF R06047 < 0 THEN R06047 = .;
R06048 = H06048;  IF R06048 < 0 THEN R06048 = .;
R06066 = H06066;  IF R06066 < 0 THEN R06066 = .;

```

```

*****

```

```

* 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";

%CONT1(DSN=ENTIRE, NUM=7, Y=R06011 R06013 R06027 R06029
      R06043 R06045 R06047);
%CONT2(DSN=ENTIRE, NUM=4, Y=R06037 R06048 R06009 R06015);
%CONT3(DSN=ENTIRE, NUM=12, Y=R06017 R06022 R06019 R06030
      R06033 R06034 R06035 R06036
      R06031 R06032 R06040 R06041);

*****
* 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
      CONUS
      ENBGSMPL
      XSEXA
      STRATUM /*KRR 04/03/2006 Changed from ADJ_CELL*/
      XINS_COV
      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
XENR_PCM
XBNFGRP
GROUP1
GROUP2
GROUP3
GROUP4
GROUP5
GROUP6
GROUP7
;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded question variables';
  VAR H06011 R06011 /*MJS 03/24/04 Changed 2003 to 2004 variable names*/
      H06009 R06009
      H06013 R06013
      H06015 R06015
      H06017 R06017
      H06022 R06022
      H06019 R06019
      H06027 R06027
      H06029 R06029
      H06030 R06030
      H06031 R06031
      H06032 R06032
      H06033 R06033
      H06034 R06034
  ;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded question variables';
  VAR H06035 R06035
      H06036 R06036
      H06037 R06037
      H06040 R06040
      H06041 R06041
      H06043 R06043
      H06045 R06045
      H06047 R06047
      H06048 R06048
      H06066 R06066
  ;
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
    H06011
    H06009
    H06013
    H06015
    H06017
    H06022
    H06019
    H06027
    H06029
    H06030
    H06031
    H06032
    H06033
    H06034
    H06035
    H06036
    H06037
    H06040
    H06041
    H06043
    H06045
    H06047
    H06048
    H06066
  ;
  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 Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\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 Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\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
*
* Subgroup Definitions:
*
* -----
* Seven Subgroups          Definitions
* -----
* 1. Prime enrollees      XINS_COV IN (1,2,6) AND H04007>=2
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H04007>=2
* 3. Enrollees w/civ PCM  XENR_PCM = 3          AND H04007>=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 and dependents XBNFGRP IN (3,4)
*
* 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 XTNEXREG instead of XREGION
* and to update for Q3 2004 data.
* 6) 01/25/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
* XTNEXREG 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.
*
*****;
OPTIONS NOCENTER LS=132 PS=79 SOURCE NOOVP COMPRESS=YES mprint mlogic;
LIBNAME IN1 V612 "DATA";
LIBNAME IN2 V612 "..\..\..\DATA\AFINAL";
LIBNAME OUT V612 "DATA";
LIBNAME OUT2 V612 "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 = 23;

*****
* 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    = R06066;
%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 = R06011;
%LET DEPVAR2 = R06013;
%LET DEPVAR3 = R06027;
%LET DEPVAR4 = R06029;

*****
* GETTING NEEDED CARE QUICKLY.
*****;
%LET DEPVAR5 = R06017;
%LET DEPVAR6 = R06022;
%LET DEPVAR7 = R06019;
%LET DEPVAR8 = R06030;

*****
* HOW WELL DOCTORS COMMUNICATE.
*****;
%LET DEPVAR9 = R06033;
%LET DEPVAR10 = R06034;
%LET DEPVAR11 = R06035;
%LET DEPVAR12 = R06036;

*****
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%LET DEPVAR13 = R06031;
%LET DEPVAR14 = R06032;

*****
* CUSTOMER SERVICE.
*****;
%LET DEPVAR15 = R06043;
%LET DEPVAR16 = R06045;
%LET DEPVAR17 = R06047;

*****
* CLAIMS PROCESSING.
*****;
%LET DEPVAR18 = R06040;
%LET DEPVAR19 = R06041;

*****
* RATING ALL HEALTH CARE: 0 - 10.
*****;
%LET DEPVAR20 = R06037;

*****
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%LET DEPVAR21 = R06048;

*****
* RATING OF PERSONAL DR: 0 - 10.
*****;
%LET DEPVAR22 = R06009;

*****
* SPECIALITY CARE: 0 - 10.
*****;
%LET DEPVAR23 = R06015;

%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 'REGSRREG.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";
    END;

```

```

    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 AGECONT(1) + 1;
IF AGE2534 = 1 THEN AGECONT(2) + 1;
IF AGE3544 = 1 THEN AGECONT(3) + 1;
IF AGE4554 = 1 THEN AGECONT(4) + 1;
IF AGE5564 = 1 THEN AGECONT(5) + 1;
IF AGE6574 = 1 THEN AGECONT(6) + 1;
IF AGE75UP = 1 THEN AGECONT(7) + 1;

* count records in each XSERVREG group;
* we will only use XSERVREGs with more than 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) " " AGECONT(1)=;
    PUT AGENAM(2) " " AGECONT(2)=;
    PUT AGENAM(3) " " AGECONT(3)=;
    PUT AGENAM(4) " " AGECONT(4)=;
    PUT AGENAM(5) " " AGECONT(5)=;
    PUT AGENAM(6) " " AGECONT(6)=;
    PUT AGENAM(7) " " AGECONT(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 AGECONT(I) > 1 THEN DO;
        CNT2 + 1;
        AGENAMX(CNT2) = AGENAM(I);
    END;
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; /*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;
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 ;

%MEND ;

%MAINLOOP ( &MIN_VAR , &MAX_VAR , &MIN_GRP , &MAX_GRP ) ;
```

G.1.D Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\REGRSREG.INC - INCLUDE FILE1 IN STEP2Q.SAS.

```
MODEL R06015 =  
R06066  
AGE1824  
AGE2534  
AGE3544  
AGE4554  
REG02  
REG03  
REG04  
REG05  
REG06  
REG07  
REG08  
REG09  
REG10  
REG11  
REG12  
REG13  
REG14  
REG15  
REG16  
REG17  
REG18  
REG19  
REG20  
REG22  
REG24  
;
```

G.1.E Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\RISKARRY.INC - INCLUDE FILE2 IN STEP2Q.SAS.

```
ARRAY COEFFS(*) $8  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R06066  
;
```

G.1.F Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\RISKMEAN.INC - INCLUDE FILE3 IN STEP2Q.SAS.

```
ARRAY MEANS(*) $8  
    MEAN01  
    MEAN02  
    MEAN03  
    MEAN04  
    MEAN05  
    MEAN06  
    ;
```

G.1.G Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\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  
  REG22  
  REG24  
;
```

G.1.H Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\RISKVARS.INC - INCLUDE FILE5 IN STEP2Q.SAS.

```
VAR  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R06066  
;
```

G.1.I Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\MEANFILE.INC - INCLUDE FILE6 IN STEP2Q.SAS.

```
OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN =  
    MEAN01  
    MEAN02  
    MEAN03  
    MEAN04  
    MEAN05  
    MEAN06  
    ;
```

G.1.J Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\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.
*
*****;
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=YES NOFMterr;
libname in v612 "data";
libname in2 v612 "data\adulthatfiles";
libname out v612 "data";
LIBNAME LIBRARY    "..\..\..\DATA\AFINAL\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 mpid;
%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 mpid;
%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 mpid;
%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 mpid;
%end;
/* Merge residual files and estimate correlations */
data infile;
merge &n; by mpid;
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 _name_="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=R06011,var2=R06013,var3=R06027,var4=R06029,qcount=4);
%COMPOSIT (type=R,compos=2,var1=R06017,var2=R06022,var3=R06019,var4=R06030,qcount=4);
%COMPOSIT (type=R,compos=3,var1=R06033,var2=R06034,var3=R06035,var4=R06036,qcount=4);
%COMPOSIT (type=R,compos=4,var1=R06031,var2=R06032,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R06043,var2=R06045,var3=R06047,qcount=3);
%COMPOSIT (type=R,compos=6,var1=R06040,var2=R06041,qcount=2);

```

G.1.K Q4FY2006\PROGRAMS\REPORTCARDS\CAHPS_ADULTQ4FY2006\FILES.INC - INCLUDE FILE IN COMPOSIT.SAS.

```
SET  
  IN.R_R06040  
  IN.R_R06041  
;
```

G.2.A Q4FY2006\PROGRAMS\LOADWEB\CAHPS_ADULTQ4FY2006\LOADCAHQ.SAS - CONVERT CAHPS SCORES INTO WEB LAYOUT - RUN QUARTERLY.

```

*****
*
* PROGRAM:   LOADCAHQ.SAS
* TASK:     Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* 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.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN v612 "..\..\REPORTCARDS\CAHPS_ADULTQ4FY2006\DATA";
LIBNAME OUT v612 "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 = "2006 Q3";

*****
* 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:
*
*
* _____
* Adjusted Score      Definitions
* Group Number
* _____
* 1. Prime enrollees      XINS_COV IN (1,2,6) AND H06007>=2
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H06007>=2
* 3. Enrollees w/civ PCM  XENR_PCM = 3          AND H06007>=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 and dependents XBNFGRP IN (3,4)
*
*****
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("R06037","R06048","R06009","R06015") 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,SERVREG.);

*****
* 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,MAJGRPF.);
SCORE = ADJ6;
SEMEAN = SEMEAN6;
N_OBS = &PREFIX.CNT6;
N_WGT = &PREFIX.WGT6;
OUTPUT;

*****
* 7 = Retirees and Dependents
*****;

```

```

MAJGRP = PUT(7,MAJGRPF.);
SCORE = ADJ7;
SEMEAN = SEMEAN7;
N_OBS = &PREFIX.CNT7;
N_WGT = &PREFIX.WGT7;
OUTPUT;

*****
* 8 = All Beneficiaries          ALL Beneficiaries
*****;
MAJGRP = PUT(8,MAJGRPF.);
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_R06011,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06013,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06027,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06029,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R06017,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06022,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06019,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06030,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R06033,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06034,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06035,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06036,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R06031,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06032,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 5.

```



```

* CUSTOMER SERVICE.
*****;
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R06043,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06045,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06047,TYPE=INDIVIDUAL);

*****
* COMPOSITE # 6.
* CLAIMS PROCESSING.
*****;
%PROCESS(QUESTION=RCOMPOS6,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R06040,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R06041,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(QUESTION=R_R06037,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(QUESTION=R_R06048,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(QUESTION=R_R06009,TYPE=INDIVIDUAL);

*****
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
*****;
%PROCESS(QUESTION=R_R06015,TYPE=INDIVIDUAL);

*****
*****
* STACK up all of the files into one final output dataset.
*****;
DATA OUT.LOADCAHQ;
  SET R_R06011
      R_R06013
      R_R06027
      R_R06029
      R_R06017
      R_R06022
      R_R06019
      R_R06030
      R_R06033
      R_R06034
      R_R06035
      R_R06036
      R_R06031
      R_R06032
      R_R06043
      R_R06045
      R_R06047
      R_R06040
      R_R06041
      R_R06037
      R_R06048
      R_R06009
      R_R06015
      RCOMPOS1
      RCOMPOS2
      RCOMPOS3
      RCOMPOS4
      RCOMPOS5

```

```
RCOMPOS6
;
IF SCORE = . THEN DELETE;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: LOADCAHQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHQ.SD2 - Combined CAHPS Scores Database in WEB layout";

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;
```

G.2.B Q4FY2006\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 (8860-410)
* 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.
*
* 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 = "CONUS 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 = "CONUS ARMY"
 26 = "CONUS AIR FORCE"
 27 = "CONUS NAVY"
 28 = "CONUS 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" "
"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"
/*****
/* Admin. Year Defn. */
/* 2001 2002 2003 2004 2005 2006 */
/*****
"R0007 ", "R0209 ", "R0309 ", "R04011", "R05011", "R06011" = "Problems Getting Personal
Doctor/Nurse
"R0014 ", "R02016 ", "R03013 ", "R04013", "R05013", "R06013" = "Problems Getting Referral
to Specialist
"R0028 ", "R02030 ", "R03027 ", "R04028", "R05027", "R06027" = "Problems Getting Necessary
Care
"R0029 ", "R02031 ", "R03028 ", "R04030", "R05029", "R06029" = "Delays in Care while
Awaiting Approval
"R0019 ", "R02021 ", "R03018 ", "R04018", "R05017", "R06017" = "Advice over Telephone
"
"R0021 ", "R02023 ", "R03020 ", "R04023", "R05022", "R06022" = "Wait for Routine Visit
"
"R0024 ", "R02026 ", "R03023 ", "R04020", "R05019", "R06019" = "Wait for Urgent Care
"
"R0030 ", "R02032 ", "R03029 ", "R04031", "R05030", "R06030" = "Wait More than 15 Minutes
Past Appointment
"R0033 ", "R02035 ", "R03032 ", "R04034", "R05033", "R06033" = "Listens Carefully
"
"R0034 ", "R02036 ", "R03033 ", "R04035", "R05034", "R06034" = "Explains so You can
Understand
"R0035 ", "R02037 ", "R03034 ", "R04036", "R05035", "R06035" = "Shows Respect
"
"R0036 ", "R02038 ", "R03035 ", "R04037", "R05036", "R06036" = "Spends Time with You
"
"R0031 ", "R02033 ", "R03030 ", "R04032", "R05031", "R06031" = "Courteous and Respectful
"
"R0032 ", "R02034 ", "R03031 ", "R04033", "R05032", "R06032" = "Helpful
"
"R0048 ", "R02048 ", "R03044 ", "R04045", "R05043", "R06043" = "Problem
Finding/Understanding Written Material"
"R0050 ", "R02050 ", "R03046 ", "R04047", "R05045", "R06045" = "Problem Getting Help from
Customer Service
"R0055 ", "R02055 ", "R03051 ", "R04053", "R05047", "R06047" = "Problem with Paperwork
"
"R0044 ", "R02044 ", "R03040 ", "R04041", "R05040", "R06040" = "Claims Handled in a
Reasonable Time
"R0045 ", "R02045 ", "R03041 ", "R04042", "R05041", "R06041" = "Claims Handled Correctly
"
"R0037 ", "R02039 ", "R03036 ", "R04038", "R05037", "R06037" = "Health Care
"
"R0056 ", "R02056 ", "R03052 ", "R04054", "R05048", "R06048" = "Health Plan
"
"R0009 ", "R02011 ", "R03011 ", "R04009", "R05009", "R06009" = "Primary Care Manager
"
"R0016 ", "R02018 ", "R03015 ", "R04015", "R05015", "R06015" = "Specialty Care
"
"PHYSIC " = "Physical "
"MENTAL " = "Mental "
;
VALUE $BENEF
"RCOMPOS1", "CCOMPOS1", "R00007", "R00014", "R00028", "R00029",
"R02009", "R02016", "R02030", "R02031",
"R03009", "R03013", "R03027", "R03028",
"R04011", "R04013", "R04028", "R04030",
"R05011", "R05013", "R05027", "R05029",
"R06011", "R06013", "R06027", "R06029"
= "Getting Needed Care "
"RCOMPOS2", "CCOMPOS2", "R00019", "R00021", "R00024", "R00030",

```

```

        "R02021", "R02023", "R02026", "R02032",
        "R03018", "R03020", "R03023", "R03029",
        "R04018", "R04023", "R04020", "R04031",
        "R05017", "R05022", "R05019", "R05030",
        "R06017", "R06022", "R06019", "R06030"
= "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"
= "How Well Doctors Communicate "

"RCOMPOS4", "CCOMPOS4", "R00031", "R00032",
        "R02033", "R02034",
        "R03030", "R03031",
        "R04032", "R04033",
        "R05031", "R05032",
        "R06031", "R06032"
= "Courteous and Helpful Office Staff "

"RCOMPOS5", "CCOMPOS5", "R00048", "R00050", "R00055",
        "R02048", "R02050", "R02055",
        "R03044", "R03046", "R03051",
        "R04045", "R04047", "R04053",
        "R05043", "R05045", "R05047",
        "R06043", "R06045", "R06047"
= "Customer Service "

"RCOMPOS6", "CCOMPOS6", "R00044", "R00045",
        "R02044", "R02045",
        "R03040", "R03041",
        "R04041", "R04042",
        "R05040", "R05041",
        "R06040", "R06041"
= "Claims Processing "
"RCOMPOS11", "COMPOS11", "MENTAL", "PHYS"
= "Health Status "
/*****/
/* Admin. Year Defn. */
/* 2001      2002      2003      2004      2005      2006      */
/*****/
"R00037", "R02039", "R03036", "R04038", "R05037", "R06037" = "Health Care
"
"R00056", "R02056", "R03052", "R04054", "R05048", "R06048" = "Health Plan
"
"R00009", "R02011", "R03011", "R04009", "R05009", "R06009" = "Primary Care Manager
"
"R00016", "R02018", "R03015", "R04015", "R05015", "R06015" = "Specialty Care
"
;
VALUE BEN
/* 0 = 'Total' deleted no longer calculating total 04/2005 RSG ***/
1 = 'Getting Needed Care'
2 = 'Getting Care Quickly'
3 = 'Courteous and Helpful Office Staff'
4 = 'How Well Doctors Communicate'
5 = 'Customer Service'
6 = 'Claims Processing'
7 = 'Health Plan'
8 = 'Health Care'
9 = 'Primary Care Manager'
10 = 'Specialty Care'
11 = 'Preventive Care'
12 = 'Healthy Behavior';

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 = "Problems Getting Personal Doctor/Nurse"
2 = "Problems Getting Referral to Specialist"
3 = "Problems Getting Necessary Care"
4 = "Delays in Care while Awaiting Approval"
5 = "Composite";

VALUE GETCAREQ
1 = "Advice over Telephone"
2 = "Wait for Routine Visit"
3 = "Wait for Urgent Care"
4 = "Wait More than 15 Minutes Past Appointment"
5 = "Composite";

VALUE CRTSHELP
1 = "Courteous and Respectful"
2 = "Helpful"
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 = "Problem Finding/Understanding Written Material"
2 = "Problem Getting Help from Customer Service"
3 = "Problem with Paperwork"
4 = "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 Q2FY2006\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) AC2005DB.SD2 - 2005 Adult CAHPS Questions
*
* OUTPUT:   1) BENCHA01.SD2 - 2005 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.
*
* NOTES:
*
* 1) This program will generate the input for BENCHA02.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN V612 "..\..\2005AdultChildNCBD\AC";
LIBNAME OUT V612 "data";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHA01;
  SET IN.AC2005DB (RENAME=(BIRTHYY=YOB));
  FORMAT _ALL_;
  *****
  * Getting Needed Care
  *****;
  H06028 = AC25_05;
  H06011 = AC07_05;
  H06013 = AC09_05;
  H06027 = AC24_05;
  H06029 = AC26_05;
  *****
  * Getting Care Quickly
  *****;
  H06017 = AC14_05;
  H06022 = AC19_05;
  H06019 = AC16_05;
  H06030 = AC27_05;
  *****
  * How Well Doctors Communicate
  *****;
  H06033 = AC30_05;
  H06034 = AC31_05;
  H06035 = AC32_05;
  H06036 = AC33_05;
  *****
  * Courteous and Helpful Office Staff
  *****;
  H06031 = AC28_05;
  H06032 = AC29_05;
  *****
  * Customer Service

```



```

*****;
H06043 = AC40_05;
H06045 = AC42_05;
H06047 = AC48_05;
*****
* Claims Processing
*****;
H06040 = AC36_05;
H06041 = AC37_05;
*****
* Health Care Rating
*****;
H06037 = AC34_05;
*****
* Health Plan Rating
*****;
H06048 = AC49_05;
*****
* Personal Doctor Rating
*****;
H06009 = AC05_05;
*****
* Specialist Rating
*****;
H06015 = AC11_05;
*****
* Health Status
*****;
H06066 = AC50_05;
h06008 = AC04_05;
AGEGROUP = AGE; *NEED TO USE USE THIS DIRECTLY (already grouped);
XSEXA = GENDER;
SREDHIGH = AC60_05;
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;
product=planid; /*MJS 05/06/03 was plnid now planid*/

LABEL H06011 = "AC07_05 - CAHPS variable"
H06013 = "AC09_05 - CAHPS variable"
H06027 = "AC24_05 - CAHPS variable"
H06028 = "AC25_05 - CAHPS variable"
H06029 = "AC26_05 - CAHPS variable"
H06017 = "AC14_05 - CAHPS variable"
H06022 = "AC19_05 - CAHPS variable"
H06019 = "AC16_05 - CAHPS variable"
H06030 = "AC27_05 - CAHPS variable"
H06033 = "AC30_05 - CAHPS variable"
H06034 = "AC31_05 - CAHPS variable"
H06035 = "AC32_05 - CAHPS variable"
H06036 = "AC33_05 - CAHPS variable"
H06031 = "AC28_05 - CAHPS variable"
H06032 = "AC29_05 - CAHPS variable"
H06043 = "AC40_05 - CAHPS variable"
H06045 = "AC42_05 - CAHPS variable"
H06047 = "AC48_05 - CAHPS variable"
H06040 = "AC36_05 - CAHPS variable"
H06041 = "AC37_05 - CAHPS variable"
H06037 = "AC34_05 - CAHPS variable"
H06048 = "AC49_05 - CAHPS variable"
H06009 = "AC05_05 - CAHPS variable"
H06015 = "AC11_05 - CAHPS variable"
H06066 = "AC50_05 - CAHPS variable"
AGEGROUP = "AGE - CAHPS variable"
XSEXA = "GENDER - CAHPS variable"
SREDHIGH = "AC60_05 - CAHPS variable"
;
KEEP H06011
H06013
H06027

```

```
H06028
H06029
H06017
H06022
H06019
H06030
H06033
H06034
H06035
H06036
H06031
H06032
H06043
H06045
H06047
H06040
H06041
H06037
H06048
H06009
H06015
H06066
H06008
AGEGROUP
XSEX
SREDHIGH
MODEL
PRODUCT
AC03_05
DISP
YOB
;
RUN;

TITLE1 "Extract Adult CAHPS Questions (DoD)";
TITLE2 "Program Name: BENCHA01.SAS By Keith Rathbun";
TITLE3 "Program Input: AC2005DB.sd2";
TITLE4 "Program Output: BENCHA01.sd2";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES _ALL_ /MISSING LIST;
RUN;
```

G.3.B Q2FY2006\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.
*
* 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;
  nproduct=product+0;
  *****
  * 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 H06028 = 2      THEN H06029=3;      /* ES 4/28/04 Change in scoring logic */

  IF H06022 = 1      THEN R06022 = 1;    /* MJS 03/23/04 Changed 2003 to 2004 variables names */
  ELSE IF H06022 = 2 THEN R06022 = 1;
  ELSE IF H06022 = 3 THEN R06022 = 2;
  ELSE IF H06022 = 4 THEN R06022 = 3;
  ELSE IF H06022 < 0 THEN R06022 = .;

  IF H06017 = 1      THEN R06017 = 1;
  ELSE IF H06017 = 2 THEN R06017 = 1;
  ELSE IF H06017 = 3 THEN R06017 = 2;
  ELSE IF H06017 = 4 THEN R06017 = 3;
  ELSE IF H06017 < 0 THEN R06017 = .;

  IF H06019 = 1      THEN R06019 = 1;
  ELSE IF H06019 = 2 THEN R06019 = 1;
  ELSE IF H06019 = 3 THEN R06019 = 2;
  ELSE IF H06019 = 4 THEN R06019 = 3;
  ELSE IF H06019 < 0 THEN R06019 = .;
```

```
IF H06030 = 1 THEN R06030 = 1;
ELSE IF H06030 = 2 THEN R06030 = 1;
ELSE IF H06030 = 3 THEN R06030 = 2;
ELSE IF H06030 = 4 THEN R06030 = 3;
ELSE IF H06030 < 0 THEN R06030 = .;
```

```
IF H06031 = 1 THEN R06031 = 1;
ELSE IF H06031 = 2 THEN R06031 = 1;
ELSE IF H06031 = 3 THEN R06031 = 2;
ELSE IF H06031 = 4 THEN R06031 = 3;
ELSE IF H06031 < 0 THEN R06031 = .;
```

```
IF H06032 = 1 THEN R06032 = 1;
ELSE IF H06032 = 2 THEN R06032 = 1;
ELSE IF H06032 = 3 THEN R06032 = 2;
ELSE IF H06032 = 4 THEN R06032 = 3;
ELSE IF H06032 < 0 THEN R06032 = .;
```

```
IF H06033 = 1 THEN R06033 = 1;
ELSE IF H06033 = 2 THEN R06033 = 1;
ELSE IF H06033 = 3 THEN R06033 = 2;
ELSE IF H06033 = 4 THEN R06033 = 3;
ELSE IF H06033 < 0 THEN R06033 = .;
```

```
IF H06034 = 1 THEN R06034 = 1;
ELSE IF H06034 = 2 THEN R06034 = 1;
ELSE IF H06034 = 3 THEN R06034 = 2;
ELSE IF H06034 = 4 THEN R06034 = 3;
ELSE IF H06034 < 0 THEN R06034 = .;
```

```
IF H06035 = 1 THEN R06035 = 1;
ELSE IF H06035 = 2 THEN R06035 = 1;
ELSE IF H06035 = 3 THEN R06035 = 2;
ELSE IF H06035 = 4 THEN R06035 = 3;
ELSE IF H06035 < 0 THEN R06035 = .;
```

```
IF H06036 = 1 THEN R06036 = 1;
ELSE IF H06036 = 2 THEN R06036 = 1;
ELSE IF H06036 = 3 THEN R06036 = 2;
ELSE IF H06036 = 4 THEN R06036 = 3;
ELSE IF H06036 < 0 THEN R06036 = .;
```

```
IF H06040 = 1 THEN R06040 = 1;
ELSE IF H06040 = 2 THEN R06040 = 1;
ELSE IF H06040 = 3 THEN R06040 = 2;
ELSE IF H06040 = 4 THEN R06040 = 3;
ELSE IF H06040 < 0 THEN R06040 = .;
```

```
IF H06041 = 1 THEN R06041 = 1;
ELSE IF H06041 = 2 THEN R06041 = 1;
ELSE IF H06041 = 3 THEN R06041 = 2;
ELSE IF H06041 = 4 THEN R06041 = 3;
ELSE IF H06041 < 0 THEN R06041 = .;
```

```
IF H06066 = 1 THEN R06066 = 5;
ELSE IF H06066 = 2 THEN R06066 = 4;
ELSE IF H06066 = 3 THEN R06066 = 3;
ELSE IF H06066 = 4 THEN R06066 = 2;
ELSE IF H06066 = 5 THEN R06066 = 1;
ELSE IF H06066>5|H06066<1 THEN R06066 = .;
```

```
*****
* Recode variables to one missing condition "."
* This also makes all the "H000xx" to "R000xx".
*****;
```

```
R06011 = H06011; IF R06011 < 0 THEN R06011 = .;
R06009 = H06009; IF R06009 < 0|R06009>10 THEN R06009 = .;
R06013 = H06013; IF R06013 < 0 THEN R06013 = .;
R06015 = H06015; IF R06015 < 0|R06015>10 THEN R06015 = .;
R06027 = H06027; IF R06027 < 0 THEN R06027 = .;
R06029 = H06029; IF R06029 < 0 THEN R06029 = .;
R06037 = H06037; IF R06037 < 0|R06037>10 THEN R06037 = .;
```

```

R06043 = H06043; IF R06043 < 0 THEN R06043 = .;
R06045 = H06045; IF R06045 < 0 THEN R06045 = .;
R06047 = H06047; IF R06047 < 0 THEN R06047 = .;
R06048 = H06048; IF R06048 < 0 | R06048 > 10 THEN R06048 = .;

LABEL R06011 = "AC07_05 - Recoded CAHPS variable"
R06009 = "AC05_05 - Recoded CAHPS variable"
R06013 = "AC09_05 - Recoded CAHPS variable"
R06015 = "AC11_05 - Recoded CAHPS variable"
R06017 = "AC14_05 - Recoded CAHPS variable"
R06022 = "AC19_05 - Recoded CAHPS variable"
R06019 = "AC16_05 - Recoded CAHPS variable"
R06027 = "AC24_05 - Recoded CAHPS variable"
R06029 = "AC26_05 - Recoded CAHPS variable"
R06030 = "AC27_05 - Recoded CAHPS variable"
R06031 = "AC28_05 - Recoded CAHPS variable"
R06032 = "AC29_05 - Recoded CAHPS variable"
R06033 = "AC30_05 - Recoded CAHPS variable"
R06034 = "AC31_05 - Recoded CAHPS variable"
R06035 = "AC32_05 - Recoded CAHPS variable"
R06036 = "AC33_05 - Recoded CAHPS variable"
R06037 = "AC34_05 - Recoded CAHPS variable"
R06043 = "AC40_05 - Recoded CAHPS variable"
R06045 = "AC42_05 - Recoded CAHPS variable"
R06047 = "AC48_05 - Recoded CAHPS variable"
R06048 = "AC49_05 - Recoded CAHPS variable"
R06066 = "AC50_05 - Recoded CAHPS variable"
R06040 = "AC36_05 - Recoded CAHPS variable"
R06041 = "AC37_05 - Recoded CAHPS variable"

nPRODUCT = "Product ID - CAHPS variable";
;
drop product;
RUN;

TITLE1 "Recode Adult CAHPS Questions (6244-410)";
TITLE2 "Program Name: BENCHA02.SAS By Keith Rathbun";
TITLE3 "Program Input: BENCHA01.SD2";
TITLE4 "Program Output: BENCHA02.SD2";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES AGEGROUP
XSEXA
SREDHIGH
MODEL
R06011 * H06011
R06009 * H06009
R06013 * H06013
R06015 * H06015
R06017 * H06017
R06022 * H06022
R06019 * H06019
R06027 * H06027
R06029 * H06029
R06030 * H06030
R06031 * H06031
R06032 * H06032
R06033 * H06033
R06034 * H06034
R06035 * H06035
R06036 * H06036
R06037 * H06037
R06043 * H06043
R06045 * H06045
R06047 * H06047
R06048 * H06048
R06066 * H06066
R06040 * H06040
R06041 * H06041
/MISSING LIST;
RUN;

```

G.3.C Q4FY2006\PROGRAMS\BENCHMARK\BENCHA03.SAS - CALCULATE CAHPS BENCHMARK DATA FOR HCSDB – RUN QUARTERLY.

```

*****
*
* PROGRAM:   BENCHA03.SAS
* TASK:     2006 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.
*
* NOTES:
*
* 1) Run this program after BENCHA01.SAS and BENCHA02.SAS.
* 2) This program will generate the input for BENCHA04.SAS.
*
*****
* Assign data libraries
*****;
libname in V612 '..\..\Q2FY2006\Programs\Benchmark\Data'; /*Use BENCHA02.SD2 from Q1*/
libname in2 V612 '..\ReportCards\CAHPS_AdultQ4FY2006\Data';
libname out V612 'Data';
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";

%let wgt=fwrwt;

OPTIONS MLOGIC MPRINT NOCENTER 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;
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_AdultQ4FY2006\CONVERT.SAS";

%CONT1(DSN=SETUP, NUM=7, Y=R06011 R06013 R06027 R06029
R06043 R06045 R06047);
%CONT2(DSN=SETUP, NUM=4, Y=R06037 R06048 R06009 R06015);
%CONT3(DSN=SETUP, NUM=12, Y=R06017 R06022 R06019 R06030
R06033 R06034 R06035 R06036
R06031 R06032 R06040 R06041);

/* GETTING NEEDED CARE */
%adjust(r06011,age1824 age2534 age3544 age4554 r06066);
%adjust(r06013,age1824 age2534 age3544 age4554 r06066);
%adjust(r06027,age1824 age2534 age3544 age4554 r06066);

```

```

%adjust(r06029,age1824 age2534 age3544 age4554 r06066);
%comp(1,r06011,r06013,r06027,r06029);

/* GETTING NEEDED CARE QUICKLY */
%adjust(r06017,age1824 age2534 age3544 age4554 r06066);
%adjust(r06022,age1824 age2534 age3544 age4554 r06066);
%adjust(r06019,age1824 age2534 age3544 age4554 r06066);
%adjust(r06030,age1824 age2534 age3544 age4554 r06066);
%comp(2,r06017,r06022,r06019,r06030);

/* HOW WELL DOCTORS COMMUNICATE */
%adjust(r06033,age1824 age2534 age3544 age4554 r06066);
%adjust(r06034,age1824 age2534 age3544 age4554 r06066);
%adjust(r06035,age1824 age2534 age3544 age4554 r06066);
%adjust(r06036,age1824 age2534 age3544 age4554 r06066);
%comp(3,r06033,r06034,r06035,r06036);

/* COURTEOUS AND HELPFUL OFFICE STAFF */
%adjust(r06031,age1824 age2534 age3544 age4554 r06066);
%adjust(r06032,age1824 age2534 age3544 age4554 r06066);
%comp(4,r06031,r06032);

/* CUSTOMER SERVICE */
%adjust(r06043,age1824 age2534 age3544 age4554 r06066);
%adjust(r06045,age1824 age2534 age3544 age4554 r06066);
%adjust(r06047,age1824 age2534 age3544 age4554 r06066);
%comp(5,r06043,r06045,r06047);

/* CLAIMS PROCESSING */
%adjust(r06040,age1824 age2534 age3544 age4554 r06066);
%adjust(r06041,age1824 age2534 age3544 age4554 r06066);
%comp(6,r06040,r06041);

/* RATING ALL HEALTH CARE: 0 - 10 */
%adjust(r06037,age1824 age2534 age3544 age4554 r06066);
%comp(7,r06037);

/* RATING OF HEALTH PLAN: 0 - 10 */
%adjust(r06048,age1824 age2534 age3544 age4554 r06066);
%comp(8,r06048);

/* RATING OF PERSONAL DR: 0 - 10 */
%adjust(r06009,age1824 age2534 age3544 age4554 r06066);
%comp(9,r06009);

/* SPECIALTY CARE */
%adjust(r06015,age1824 age2534 age3544 age4554 r06066);
%comp(10,r06015);

```

G.3.D Q4FY2006\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 (6244-410)
* 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.
*
* 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.SD2) will be run through the
*   MAKEHTML.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN V612 "DATA";
LIBNAME IN2 V612 "qpredtest";
LIBNAME OUT V612 "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
*
*
* -----
* Adjusted Score          Definitions
* Group Number
* -----
* 1. Prime enrollees      XINS_COV IN (1,2,6) AND H06007_R>=7
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H06007_R>=7
* 3. Enrollees w/civ PCM  XENR_PCM = 3          AND H06007_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 = "2006 Q3";

*****;
* Convert benchmark scores datasets into WEB layout.
*****;
%IF &CNUM<7 %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 = "Courteous and Helpful Office Staff";
ELSE IF &CNUM = 5 THEN BENEFIT = "Customer Service";
ELSE IF &CNUM = 6 THEN BENEFIT = "Claims Processing";
ELSE IF &CNUM = 7 THEN BENEFIT = "Health Care";
ELSE IF &CNUM = 8 THEN BENEFIT = "Health Plan";
ELSE IF &CNUM = 9 THEN BENEFIT = "Primary Care Manager";
ELSE IF &CNUM = 10 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<7 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>6 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;

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=4, VARS=r06011_&I R06013_&I R06027_&I R06029_&I,
        SE=s_r06011 S_R06013 S_R06027 S_R06029);
*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=&I, NVAR=4, VARS=R06017_&I R06022_&I R06019_&I R06030_&I,
        SE=S_R06017 S_R06022 S_R06019 S_R06030);
*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=&I, NVAR=4, VARS=R06033_&I R06034_&I R06035_&I R06036_&I,
        SE=S_R06033 S_R06034 S_R06035 S_R06036);
*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=&I, NVAR=2, VARS=R06031_&I R06032_&I, SE=S_R06031 S_R06032);
*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=&I, NVAR=3, VARS=R06043_&I R06045_&I R06047_&I,
        SE=S_R06043 S_R06045 S_R06047);
*****
* COMPOSITE # 6.
* CLAIMS PROCESSING.
*****;
%PROCESS(CNUM=6, GNUM=&I, NVAR=2, VARS=R06040_&I R06041_&I, SE=S_R06040 S_R06041);
*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R06037_&I, SE=S_R06037);
*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R06048_&I, SE=S_R06048);
*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R06009_&I, SE=S_R06009);
*****
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
*****;
%PROCESS(CNUM=10, GNUM=&I, NVAR=1, VARS=R06015_&I, SE=S_R06015);
%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
    COMP10_1 COMP10_2 COMP10_3 COMP10_4 COMP10_5 COMP10_6 COMP10_7 COMP10_8
  ;
  IF SCORE = . THEN DELETE;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: BENCHA04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHA04.SD2 - Combined Benchmark Scores Database in WEB layout";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES TIMEPD BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;

Proc print;

```


G.4.A Q4FY2006\PROGRAMS\REPORTCARDS\MPR_ADULTQ4FY2006\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
*
* Purpose: Calculate MPR Preventive Care Composites
* Input: HCSyyyq_1.SD2
* Output: RFINAL.SD2
* CFINAL.SD2
* MFINAL.SD2
* SFINAL.SD2
*
* 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;

```

```

LIBNAME IN v612 "..\..\..\DATA\AFINAL";
LIBNAME INNORM v612 "..\..\..\2005\DATA";

```

```

LIBNAME OUT v612 ".";
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=HCS064_1;

%LET YRDATA=HCS064_1;

/***** 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";   ****MJS 07/23/03 Removed ..\PROGRAMS\;

*****;
* Beneficiary group note
*   Eight groups          Definitions
* _____;
* 1. Prime enrollees      XINS_COV IN (1,2,6) AND H06007>=2
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H06007>=2
* 3. Enrollees w/civ PCM  XENR_PCM IN (3,7) AND H06007>=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
*****;

/**** 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 ENBGSMPL &NORMWGT
ADJ_CELL H05022 H05019 H05030 H05007 SERVVAFF 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 */

```

```

*****
* 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 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/unknown;

```

```

IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/

```

```

IF XTNEXREG = . THEN DELETE;

```

```

IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;

```

```

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 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;

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 CONUS XSERVAFF CACSMPL &WGT TMP_CELL
  PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
  DENV1-DENV&COMPNUM XTNEXREG XSERVREG FIELDAGE);
  /* 11/15/2006 JSO Added FIELDAGE in the keep statement */

  SET IN.&INDATA(KEEP=XINS_COV HP_BP XTNEXREG HP_MAMOG HP_PAP HP_PRNTL /*RSG 04/2005 DELETE
HP_CHOL*/
  XREGION SERVAFF XENR_PCM XBNFGRP ENBGSMPL &WGT CACSMPL
  STRATUM H06022 H06019 H06030 H06007 D_HEALTH FIELDAGE);
  /* 11/15/2006 JSO Added FIELDAGE 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 XTNEXREG = . THEN DELETE;

IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;

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=H06022; /* access var 1 */
PRVVAR6=H06019; /* access var 2 */
PRVVAR7=H06030; /* 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;

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 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;

*****
* Assign indicator of CONUS based on XTNEEXREG. CONUS stands for
* Contential United States it but includes both Alaska and Hawaii.
*****;
IF XTNEEXREG IN (1,2,3) THEN CONUS=1; /*RSG 01/2005 OVERALL CONUS*/

ELSE IF XTNEEXREG = 4 THEN CONUS=2;

* Prime enrollees *;

IF (XINS_COV IN (1,2,6) AND H06007>=2) THEN DO;
    BGROUP=1;
    OUTPUT;
END;

* Enrollees with military PCMs *;

IF (XENR_PCM IN (1,2,6) AND H06007>=2) THEN DO;
    BGROUP=2;
    OUTPUT;
END;

* Enrollees with civilian PCMs *;

IF (XENR_PCM IN (3,7) AND H06007>=2) THEN DO;
    BGROUP=3;
    OUTPUT;
END;

```

```

* Nonenrollees *;

IF XINS_COV IN (3) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
  BGROUP=4;
  OUTPUT;
END;

* Active duty      *;

IF XBNFGRP = 1 THEN DO;
  BGROUP=5;
  OUTPUT;
END;

* Active duty dependents *;

IF XBNFGRP = 2 THEN DO;
  BGROUP=6;
  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       ****
*****;

%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)=CONUS %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 CONUS 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)=CONUS %THEN %DO;
    IF CONUS 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 CONUS %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)=CONUS %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)=CONUS %THEN %DO;
    CONUS=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 (CONUS);
%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)=CONUS %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)=CONUS %THEN %DO;

```



```

        WHERE BGROUP=&I AND CONUS = 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(CONUS);
%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)=CONUS %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 CONUS = 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)=svcwgt(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(CONUS);
%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 (CONUS)      *****
*****;

PROC FORMAT; /*RSG 02/2005 - hardcoded in prog to have caps vs format in loadcahq.inc*/
  VALUE REGIONF
    0 = "CONUS 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=CONUS %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="CONUS MHS";
  REGCAT="CONUS MHS";
%END;
%ELSE %IF &PREF=R %THEN %DO;
  REGION=PUT(XSERVREG, SERVREGO.);
  REGCAT=PUT(XSERVREG, SERVREGO.);
%END;

```

```

%ELSE %IF &PREF=M %THEN %DO;                               /** RSG 1/2005 Add codes for service grouping
**/
    REGION=PUT(XSERVAFF,XSERVAFF.);
    REGCAT=PUT(XSERVAFF,XSERVAFF.);
%END;

**** 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.);
        cpobs&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.);
    cpobs&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 significant **;

    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(CONUS);
%GETSIG(XTNEXREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVAFF);

```

G.4.B Q4FY2006\PROGRAMS\REPORTCARDS\MPR_ADULTQ4FY2006\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.
*
* Inputs: 1) HCS05A_1.SD2 - Annual 2005 Survey data
*          2) HCS062_1.SD2 - Q2 fy 2006 Survey data
*          3) AC2005DB.sas7bdat - 2005 CAHPS Benchmark Data
*
* Output: 1) SMOKE.SD2
*
*****;

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr
        MPRINT MLOGIC;
LIBNAME BENCH V612 "..\..\..\2005AdultChildNCBD\AC";
LIBNAME INDAT v612 "..\..\..\Data\afinal";
LIBNAME INNORM v612 "..\..\..\2005\Data";
LIBNAME OUT V612 ".";

%LET DSN=HCS064_1;
%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, 2006;
%LET WGT = FWRWT;
%LET NORMWGT = CFWT;
%LET CATCHNUM=9999; /*RSG 02/2005 number of catchment areas **/

DATA BENCHA01;
    SET BENCH.AC2005DB (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 ac52_05=1 & (ac53_05 in (1,2) |(ac53_05=3 & ac54_05=1)) & ac55_05>=0 & ac55_05<=4; /*02/2006
RSG - REMOVED REQUIREMENT FOR ADDITIONAL VISIT (ACC22 FIELD)*/
cessbnch=0;

```

```

if ac55_05>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 XTNEXREG XSERVREG XSERVAFF
                SM_RATE SM_CESS SM_RTDN SM_CSDN BMI_DN BMI
                TOTCON GROUP XSEX &WGT. age_n MPCSMPL);
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) THEN DELETE;

* prime enrollees;
IF XINS_COV IN (1,2,6) AND H05007>=2 THEN DO;
  GROUP=1;
  OUTPUT;
END;

* enrollees with military pcms;
IF XENR_PCM IN (1,2,6) AND H05007>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;

* enrollees with civilian pcms;
IF XENR_PCM = 3 AND H05007>=2 THEN DO;
  GROUP=3;
  OUTPUT;
END;

* nonenrollees;
IF XINS_COV IN (3) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
  GROUP=4;
  OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 THEN DO;
  GROUP=5;
  OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 THEN DO;

```

```

GROUP=6;
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);
SET INDAT.&DSN.;
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;

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) THEN DELETE;

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 & h06055>0 then do;      /*RSG 02/2006 NEW SMOKING CESSATION FORMULA AS PER ERIC SCHONE
*/
  if h06055>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 XINS_COV IN (1,2,6) AND H06007>=2 THEN DO;
  GROUP=1;
  OUTPUT;
END;

* enrollees with military pcms;
IF XENR_PCM IN (1,2,6) AND H06007>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;

* enrollees with civilian pcms;
IF XENR_PCM = 3 AND H06007>=2 THEN DO;
  GROUP=3;
  OUTPUT;
END;

* nonenrollees;
IF XINS_COV IN (3) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
  GROUP=4;
  OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 THEN DO;
  GROUP=5;
  OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 THEN DO;
  GROUP=6;
  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*MPCSMP;

```

```

        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 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& &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/semear);
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 Behavior";
%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 = "CONUS 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 Behavior";
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, &CNSLGOAL, &BMIGOAL))/3) THEN SIG = 1;
        ELSE IF SCORE < ((SUM(&NSMKGOAL, &CNSLGOAL, &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 Q4FY2006\PROGRAMS\REPORTCARDS\MPR_ADULTQ4FY2006\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
*           2) 07-15-2002 By Mike Scott, Changed PERIOD to = "April, 2001
*           3) 03-21-2003 By Mike Scott, Changed PERIOD to = "January, 2001
*           4) 04-30-2003 By Mike Scott, Changed CMPNUM1 from 4 to 5, and
*           5) 06-23-2003 By Mike Scott, Changed setting BENTYPE from &PERIOD
*           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 XTNEXREG with XSERVREG
*          13) 12/2005 By Regina Gramss, Updated for Q4 2005.
*          14) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
*          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.
*
* Input: 1) RFINAL.SD2
*        2) CFINAL.SD2
*        3) MFINAL.SD2
*        4) SFINAL.SD2
*        5) SMOKE.SD2
*
* Output: loadmprq.sd2
*
* Note: ***CHECK COMPNUM AND CMPNUM1 ASSIGNMENTS AND UPPER LIMIT OF DO LOOPS***
*
*****;

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2;

LIBNAME INLIB V612 ".";
LIBNAME OUT V612 ".";
LIBNAME LIBRARY "..\..\Data\afinal\fmtlib";

%LET CMPNUM1=4; /** number of questions in first composite **/ /*RSG 04/2005 Changed 5 to 4*/

%LET PERIOD = July, 2006;
%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 = '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 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. CP1SE ;
    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 Q4FY2006\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 Behavior 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.
*
* 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, 2005;
%LET PERIOD2 = January, 2006;
%LET PERIOD3 = April, 2006;
%LET PERIOD4 = July, 2006;
%LET PERIOD5 = Trend;    ***MJS 06/18/03 Added line;

%INCLUDE "LOADCAHQ.INC";    ***MJS 07/07/03 Added;

LIBNAME OUT V612 ".";
LIBNAME IN V612 "..\..\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.HCS064_1;
  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;

  IF XTNEXREG = . THEN DELETE;

RUN;

proc freq;
table xservreg*cacsmpl/ noprint out=temp;
run;

data temp2;
length cafmt $26;
set temp end=last;
by xservreg;
caf=0;
where cacsmpl 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(cacsmpl,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 = 'CONUS 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','CONUS','North','South','West
','NORTH','SOUTH','WEST') OR
   REGCAT IN ('ARMY','AIR FORCE','NAVY','OTHER') THEN REGION=REGCAT;

DO K=1 TO 12;       ** 12 Benefits **;  /*** 12-13 MAB ***/

BENEFIT=PUT(K,BEN.);

IF K=1 THEN DO;
  DO L=1 TO 5;      ***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 5;      ***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 3;      ***MJS 06/18/03 Added L loop and BENTYPE PUT;
    BENTYPE=PUT(L,CRTSHELP.);  ***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 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=5 THEN DO;
  DO L=1 TO 4;      ***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=6 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;

```



```
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 Q4FY2006\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
*          - BENCHQA04.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.
*
* 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
*   - BENCHQA01-04.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
*****;
LIBNAME IN1 v612 ".";
LIBNAME IN2 v612 "CAHPS_ADULTQ4FY2006\Data";
LIBNAME IN3 v612 "..\ReportCards\MPR_AdultQ4FY2006";
LIBNAME IN4 v612 "..\Benchmark\Data";
LIBNAME OUT v612 ".";
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 = 'CONUS MHS';
REGCAT = 'CONUS 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 (6244-410)"; /*MJS 03/24/04 Updated
project number*/
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.SD2 - Merged Final Scores Database for input to MAKEHTML.SAS";

TITLE5 "MERGFINQ.SD2 Data source counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES SOURCE FLAG SVCAHPQ SVMPRQ SVBENQ
        SVCAHPQ*SVMPRQ*SVBENQ
        /MISSING LIST;
RUN;

TITLE5 "MERGFINQ.SD2 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.SD2 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.SD2)";
PROC PRINT DATA=MISSING;
VAR MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD; ***MJS 07/23/03 Added TIMEPD;
RUN;

```

G.6 Q4FY2006\PROGRAMS\LOADWEB\CONUS_Q.SAS - GENERATE CAHPS CONUS SCORES AND PERFORM SIGNIFICANCE TESTS - 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 functionality.
*
* 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.
*
* INPUTS: 1) MERGFINQ.SD2 - Scores Database in WEB Layout
* 2) FAKEQ.SD2 - Scores Database WEB Layout
* 3) CONUS_Q.SD2 - Previous Quarters Combined CAHPS/MPR Scores Database in WEB layout
*
* OUTPUT: 1) TOTAL_Q.SD2 - Combined CAHPS/MPR Scores Database in WEB layout
* 2) LT30Q.SD2 - Records with <= 30 observations
* 3) CONUS_Q.SD2 - 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_NOCHOL.SAS - Calculate preventative measure scores for group1-8
* - SMOKING_BMI.SAS - Calculate healthy behavior scores for group1-8
* - LOADMPRQ_NEW.SAS - Combined preventative and healthy behavior scores
* - MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases
*
*****
* Assign data libraries and options
*****;
LIBNAME IN1 V612 ".";
LIBNAME OUT V612 ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT MLOGIC;

```

```

*****;
* Define GLOBAL parameters for last CONUSQ.SD2, rolling quarters, and
* input dataset name.
*
* IMPORTANT: Update these GLOBALS each quarter prior to rerunning program.
*****;
%LET LSTCONUS = ..\..\..\Q3FY2006t\Programs\Loadweb;

%LET PERIOD1 = October, 2005;
%LET PERIOD2 = January, 2006;
%LET PERIOD3 = April, 2006;
%LET PERIOD4 = July, 2006;
%LET DSN      = MERGFING;

*****;
* 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","CONUS") AND
              SUBSTR(REGCAT,1,5) NOT IN("Bench","CONUS") 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","CONUS") AND
              SUBSTR(REGCAT,1,5) NOT IN("Bench","CONUS") 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 = "CONUS";
    FLAG = "CONUS";
    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)) ||

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```

                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
*****
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 = "CONUS";
      FLAG = "CONUS";
      IF TOTCON=1 THEN REGION = "CONUS 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=Advice over Telephone ,MAJGRP=Active Duty,
TYPE=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 and Respectful ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);

```

```

%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Active Duty Dependents - Individual
*****;
%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Active Duty Dependents,
TYPE=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 and Respectful ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Enrollees with Civilian PCM - Individual
*****;
%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Enrollees with Civilian PCM,
TYPE=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 and Respectful                 ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval   ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand          ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful                                  ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully                        ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork                  ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care         ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse  ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care                     ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Enrollees with Civilian
PCM, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit                   ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);

```

* Create CONUS for Enrollees with Military PCM - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone                   ,MAJGRP=Enrollees with Military PCM,
TYPE=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 and Respectful                ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand         ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful                                  ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully                       ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork                  ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care         ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care                     ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);

```



```

%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Enrollees with Military
PCM, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);

```

```

* Create CONUS for Non-enrolled Beneficiaries - Individual
*****;
%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=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 and Respectful ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);

```

```

* Create CONUS for Prime Enrollees - Individual
*****;
%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Prime Enrollees,
TYPE=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 and Respectful ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);

```

```

%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);

```

* Create CONUS for Retirees and Dependents - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Retirees and Dependents,
TYPE=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 and Respectful ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);

```

* Create CONUS for All Beneficiaries - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=All Beneficiaries,
TYPE=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 and Respectful ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);

```

```

%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,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 Courteous and Helpful Office Staff - Quarterly
*****;

```

```

%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);

```

```

* 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);
%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);
%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);
%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);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Specialty Care);
```

```

%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 bentye ascore);
set benchmrk;
where upcase(majgrp)='ALL BENEFICIARIES';
rename score=ascore;
run;
proc sort; by benefit bentye;
proc sort data=benchmrk; by benefit bentye;
data benchmrk;
merge benchmrk abnchmrk; by benefit bentye;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 = "CONUS_Q";
FLAG = "CONUS_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);

```

```

IF timepd IN ("&PERIOD1",&PERIOD2",&PERIOD3") AND
(REGION = REGCAT) AND

```

```

        BENEFIT IN ("Getting Needed Care",
                   "Getting Care Quickly",
                   "How Well Doctors Communicate",
                   "Courteous and Helpful Office Staff",
                   "Customer Service",
                   "Claims Processing",
                   "Health Care",
                   "Health Plan",
                   "Primary Care Manager",
                   "Specialty Care",
                   "Preventive Care",
                   "Healthy Behavior") & 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 bentye="&period1";
    if timepd="&period2" then period=2;    ***MJS 07/08/03 Changed from bentye="&period2";
    if timepd="&period3" then period=3;    ***MJS 07/08/03 Changed from bentye="&period3";
    if timepd="&period4" then period=4;    ***MJS 07/08/03 Changed from bentye="&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.bentype 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 bentype trend serr);
merge trend avg; by majgrp region regcat benefit bentype;
if majgrp="Benchmark"|region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentype 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.bentype 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 bentype;RUN;
proc sort data=btrend; by majgrp benefit bentype;
data trend3(rename=(trend=score));
merge trend2 btrend(rename=(trend=btrend serr=bserr));
by majgrp benefit bentype;
  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*/
  IF MAJGRP="Enrollees with Civilian PCM" THEN DELETE;      ***MJS 05/14/03 Removed Civilian PCM;

  /* 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 (6244-410)"; /*MJS 03/23/04 Updated
project number*/
TITLE2 "Program Name: CONUS_Q.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFINQ.SD2 - Scores Database in WEB Layout";
TITLE4 "Program Outputs: TOTAL_Q.SD2 - CONUS 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 Q4FY2006\PROGRAMS\LOADWEB\MAKEHTMQ.SAS - GENERATE HTML AND XLS FILES FOR TRICARE BENEFICIARY REPORTS - QUARTERLY.

```

*-----;
* Programmer: Mark A. Brinkley ;
* Title: MAKEHTMQ.SAS ;
* Client: 6077-410 ;
* Date: 06-01-2001 ;
* ;
* Purpose: This program is designed to create ;
* report cards for the 2000 DOD project ;
* ;
* ;
* Input files: TOTAL_QR.SD2 ;
* Output files: HTML\ ;
* 1269*3 F*.HTM Files (Frame version) ;
* 1269 P*.HTM Files (Printer friendly - no frames) ;
* P*.XLS Files (Excel files) ;
* ----- ;
* ;
* ;
* ;
* ;
* IF YOU MODIFY THIS PROGRAM THEN PLEASE INITIAL AND DOCUMENT ;
* YOUR CHANGES. THOSE FAILING TO DO THIS WILL BE SEVERELY ;
* BEATEN. ;
* ;
* ;
* ;
* ;
* Modifications: ;
* 11-01-2000 - JSykes added pieces to create Excel Spreadsheets ;
* 07-01-2001 - MAB modified for qtr 2 ;
* 10-25-2001 - C.Rankin moved link to printer friendly version ;
* from frame, created macro variable to include ;
* third row of subbenefit heading ;
* 11-01-2001 - D.Beahm changed splitpercent to splitpixel and adjusted ;
* the pixel size of the top frame to prevent scrolling ;
* she also added a <BR> before the printer icon to make ;
* sure it appears on it's own line ;
* 12-21-2001 - D.Beahm changed column widths for frame page a so that ;
* the column headers would line up with the data in frame ;
* page b. Also revised Excel code so benchmarks for the ;
* majorgrp are shaded dark red instead of blue ;
* 04-18-2002 - Quarterly report cards will now show a rolling 4 ;
* quarters of data for the trend. DKB updated the period ;
* BENTYPE references to account for this, this will need ;
* to be done each quarter. Also revised footnote ;
* to indicate that this is the 2002 Survey of Health Care ;
* Beneficiaries. This reflects a change from previous ;
* years, the survey year now refers to the processing ;
* year instead of the year for which data was collected. ;
* Also changed image reference from QTR to COL, these ;
* new names for the qtr images reflects the column they ;
* are in instead of the quarter they represent ;
* 06-19-2002 - Mark Brinkley ;
* Updated for Q2_2002 ;
* Changed macro var PERIOD to CURRENTPERIOD ;
* Added macro vars PERIOD1-PERIOD3 ;
* 07-29-2002 - Daniele Beahm ;
* Added links to trend pages. Clicking on the fielding ;
* Period now takes you to the component page for that ;
* period and clicking on the Trend column header now ;
* takes you to the Trend section of the help file ;
* 02-04-2003 - Mike Scott ;
* Changed "Primary Care Manager" to "Personal Doctor" ;
* 02-10-2003 - Mike Scott ;
* Inserted LENGTH HREF $ 250 statements before ;
* href = "string" statements so that href wouldn't be ;
* set by default ;

```

```

* 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 ;
* 05-10-2005 - Regina Gramss - deleted chol testing under Prevention ;
*           and added BMI for Healthy Behavior (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 ;
*
* NOTE: Update only SRFYR1, SRFYR2, PERIOD1/2/3, and CURRENTPERIOD. ;
*=====;

%LET SRFYR1 = 2005; *** Previous year; /*MJS 03/24/04 Added macro variables*/
%LET SRFYR2 = 2006; *** Current year;

/**** Added macro variables for previous periods (MAB 6-19-2002) ****/
%LET PERIOD1 = October, 2005;
%LET PERIOD2 = January, 2006;
%LET PERIOD3 = April, 2006;

/**** Change name of macro variable from PERIOD (MAB 6-19-2002) ****/
%LET CURRENTPERIOD = July, 2006; /** Current Period of these reports **/
%LET QTRS=4; /** Qtr of these reports **/
%LET QTRNO=2; /**LLU 5/15/06. ne 1 indicates the data is from cuerrent year and proceeding year,
1 is from current year only*/

OPTIONS NOXWAIT; /* 2000/11: added noxwait*/

%LET HTMLSP=%NRSTR(&nbsp;); /**DANIELE CHANGED %STR(&nbsp;) TO %NRSTR(&nbsp;NBS)*/
%LET QUOTE=%STR("");
%LET OUTDIR=HTML; /** Directory to put HTML files **/ /*MJS 01/28/04 Set to HTML*/
/*%LET OUTDIR=L:\Q4_2005\PROGRAMS\LOADWEB\TEST;*/
%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();

%IF &QTRNO NE 1 %THEN %DO;

    PUT "<tr>";
    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 C
    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 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %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>";
    PUT " <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";

```

```

        PUT "</td></tr>";
%END;
%ELSE %DO;
    PUT "<tr>";
    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 m
    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 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %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>";
        PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
%END;

/* RSG - 02/2005 - Commented out following sections - bottom notes should be the same for all
pages now:

%if &seppage. ne 2 %then %do;
    %if &var3. =7 %then %do;    ***MJS 4/23/03 Changed 8 to 7;
        PUT "<tr>";
        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 C
        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>";
        PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
        PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";

        PUT "</td></tr>";
    %end;

        %else %if &var3. =8 %then %do;    ***MJS 4/23/03 Changed 9 to 8;
            PUT "<tr>";
            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 C
            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>";
            PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
            PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";

            PUT "</td></tr>";
        %end;

        %else %if &var3. =9 %then %do;    ***MJS 4/23/03 Changed 10 to 9;
            PUT "<tr>";
            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 C

```

```

        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>";
        PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
        PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";

        PUT "</td></tr>";
    %end;

    %else %if &var3. =10 %then %do;    ***MJS 4/23/03 Changed 11 to 10;
        PUT "<tr>";
        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 C
        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>";
        PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
        PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";

        PUT "</td></tr>";
    %end;

    %else %do;
        PUT "<tr>";
        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 m
        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>";
        PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
        PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
    %end;
%end;
%else %if (&var3.=5 and (&var4.=3 or &var4.=0) and &seppage.=2) or
(&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
(&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
    PUT "<tr>";
    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 C
    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>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>* Indicates Quarterly rate of
change adjusted to remove shift in score due to change in wording of question</font><br>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
    PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
    PUT "</td></tr>";
%end;

%else %do;

```



```

        PUT "<tr>";
        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 C
        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>";
        PUT "      <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
        PUT "      <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
        PUT "    </td></tr>";
%end;
*/

```

```
%MEND 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 V612 '.' ACCESS=READONLY;
*LIBNAME SRC1 V612 'L:\Q4_2005\Programs\LoadWeb' 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_Q;

```

```
IF BENEFIT="Total" THEN DELETE; /**** MAB testing 2/11/2005 ****/
```

```

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";
label*/
/* RSG 09/20/2005 Changed

```

```

/**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 = "Standard/Extra Users" THEN LINEUP=4;
ELSE IF MAJGRP = "Active Duty" THEN LINEUP=5;
ELSE IF MAJGRP = "Active Duty Dependents" THEN LINEUP=6;
ELSE IF MAJGRP = "Retirees and Dependents" THEN LINEUP=7;
ELSE IF MAJGRP = "All Users" THEN LINEUP=8;

```

```

IF REGION = "Benchmark" THEN LINEUP2=1;
ELSE IF UPCASE(REGION) = 'CONUS MHS' THEN LINEUP2=2;
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,sepage,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(Standard/Extra Users);    ***MJS 05/04/03 Removed Civilian PCM;
%if &var1.=4 %then %let major=%STR(Active Duty);            ***(var1.=3), and changed 4-8 to 3-7;
%if &var1.=5 %then %let major=%STR(Active Duty Dependents);
%if &var1.=6 %then %let major=%STR(Retirees and Dependents);
%if &var1.=7 %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,1,5)="CONUS" 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;
TEMPLATE=COMPRESS("Templates\Template&var3..xls");
%end;
%else %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
    TEMPLATE=COMPRESS("Templates\Template_trend2.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;          /*MJS 07/30/03 Added else do - was %else %let headvar=BENTYPE;*/
    %if &seppage.=2 or &var3=7 or &var3=8 or &var3=9 or &var3=10 %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)="CONUS MHS";
    %let sub_regs=%STR(CONUS 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 BENYTYPE="Composite" and TIMEPD="&currentperiod.";    ***MJS 07/03/03 Changed from IF
BENYTYPE="&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(5+&qtrs.);
  %end;
  %else %if &var3.=2 %then %do;    ***MJS 4/23/03 Changed 3 to 2;
    IF BENEFIT="Getting Care Quickly";
    %let columns=%EVAL(5+&qtrs.);
  %end;
  %else %if &var3.=3 %then %do;    ***MJS 4/23/03 Changed 4 to 3;
    IF BENEFIT="Courteous and Helpful Office Staff";
    %let columns=%EVAL(3+&qtrs.);
  %end;
  %else %if &var3.=4 %then %do;    ***MJS 4/23/03 Changed 5 to 4;
    IF BENEFIT="How Well Doctors Communicate";
    %let columns=%EVAL(5+&qtrs.);
  %end;
  %else %if &var3.=5 %then %do;    ***MJS 4/23/03 Changed 6 to 5;
    IF BENEFIT="Customer Service";
    %let columns=%EVAL(4+&qtrs.);
  %end;
  %else %if &var3.=6 %then %do;    ***MJS 4/23/03 Changed 7 to 6;
    IF BENEFIT="Claims Processing";
    %let columns=%EVAL(3+&qtrs.);
  %end;
  %else %if &var3.=7 %then %do;    ***MJS 4/23/03 Changed 8 to 7;
    IF BENEFIT="Health Plan";
    %let columns=%EVAL(2+&qtrs.);    ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
  %end;
  %else %if &var3.=8 %then %do;    ***MJS 4/23/03 Changed 9 to 8;
    IF BENEFIT="Health Care";
    %let columns=%EVAL(2+&qtrs.);    ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
  %end;
  %else %if &var3.=9 %then %do;    ***MJS 4/23/03 Changed 10 to 9;
    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.=10 %then %do;    ***MJS 4/23/03 Changed 11 to 10;
    IF BENEFIT="Specialty Care";
    %let columns=%EVAL(2+&qtrs.);    ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
  %end;
  %else %if &var3.=11 %then %do;    ***MJS 4/23/03 Changed 12 to 11;
    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.=12 %then %do;    /** MAB Added 2/11/2005 */
    IF BENEFIT="Healthy Behavior";
    %let columns=%EVAL(4+&qtrs.);
  %end;

  /** Set macro variable */
  %if &var3.=0 %then %do;
    %let sub_ben=%STR(&currentperiod. Composite Scores);
    %let columns=13;
  %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 BENEFIT="Courteous and Helpful Office Staff" AND
    BENTYPE="Composite" THEN WIDTH3=70;  ****DKB ADDED TREND 4/30/2002****;
  ****MJS 07/03/03 Changed from BENTYPE IN any period and Est. Quarterly Rate of Change;
  %if &prefix.=p %then %do;
    WIDTH3=.;
  %end;

  %else %if &var3.=0 %then %do;
    WIDTH_COL1=.;
    WIDTH3=40;
  %end;

  /**** Added 5-7-2001 mab ****/

RUN;

/***** Put out Header rows of table *****/
/**** Put out Header rows of table *****/
/***** 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.7-0-0-0.htm");  ****MJS 05/06/03 Changed 8-0-0 to 7-0-0;
  %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;

/**** U U FRAMES SECTION U U ****/
%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.=3 OR &var3.=6 OR &var3.=12 %then %do;    ***MJS 4/23/03 Changed 4&7 to 3&6;
***RSG 02/2005 Added var3=12;
    %let splitpixel=181;
%end;
%else %if &var3.=4 %then %do;    ***MJS 4/23/03 Changed 5 to 4;
    %let splitpixel=196;
%end;
%else %if &var3.=5 %then %do;    ***MJS 4/23/03 Changed 6 to 5;
    %let splitpixel=221;
%end;
%else %if &var3.=7 OR &var3.=8 OR &var3.=9 OR &var3.=10 %then %do;
    %let splitpixel=158;    ***MJS 4/23/03 Changed 8/9/10/11 to 7/8/9/10;
%end;
%else %if &var3.=11 %then %do;    ***MJS 4/23/03 Changed 12 to 11;
    %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 ****/

```



```

/****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='Total Score'
BORDER=0></td>";
  PUT "<td width=80 colspan=2><IMG SRC='&imgdir.\ea.gif'ALT='Ease of Access'
BORDER=0></td>";
  PUT "<td width=185 colspan=4><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=2><IMG SRC='&imgdir.\healthy.gif' ALT='Healthy Behavior'
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=4><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>Behavior</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>";
  /**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='7%'><font face='&fontface.'>&htmlsp.</font></td>";
%end;

/** MAB 2/11/2005 ***/
bennum=1; /** index to all 12 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 */
/*-----*/

```



```

        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="" 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.=7 OR &var3.=8 OR &var3.=9 OR &var3.=10 %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 ***/
                /** UÛ FRAMES SECTION UÛ ***/
                %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) ***/
        /*** UÛ FRAMES SECTION UÛ ***/
        %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>";

```



```

DATA HTML2;
  SET HTML;
  IF TIMEPD="&currentperiod.";
RUN;

/**** Remove qtrs from column counts ****/
%let columns=%EVAL(&columns.-&qtrs.);

/**** Do sub-benefit page without any qtrly info ****/
DATA _NULL_;
  SET HTML2 END=EOF;

/**** 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 4/30/2002***;
****MJS 07/03/03 Changed from BENTYPE IN any period and Est.

Quarterly Rate of Change;

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 +(-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_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= &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) **/
  /** ÔÔ FRAMES SECTION ÔÔ **/
  %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;

  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 "%mpres('&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;
  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;
  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 ***/

```



```

                IF BENTYPE = "Shows Respect";
            %end;
            %else %if &var4. = 4 %then %do;
                IF BENTYPE = "Spends Time With You";
            %end;
        %end;
    %else %if &var3. = 5 %then %do;
        %if &var4. = 1 %then %do;
            IF BENTYPE = "Problem Finding/Understanding Written Material";
        %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Problem Getting Help From Customer Service";
        %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Problem With Paperwork";
        %end;
    %end;
    %else %if &var3. = 6 %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. = 11 %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. = 12 %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 +(-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.";

        /** 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_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 **/
        /** ÔÔ FRAMES SECTION ÔÔ **/
        /**PUT "<td></td>"**/

        /** 4th Row start (column 1) **/
        /** ÔÔ FRAMES SECTION ÔÔ **/
        %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*/

*****;

/** 4th Row (columns 2+) ***/
/** If quarter column then HREF link is different ****/
/** ÔÔ FRAMES SECTION ÔÔ ***/

*LENGTH HREF $250;

%if &prefix=f %then %do;
%if &var3.=12 and &seppage.=2 and (&var4. = 0 or &var4. = 3) %then %do;
    IF TIMEPD = "April, 2003 to March, 2004" THEN DO;
        IMAGE=COMPRESS("&imgdir.\col"||_N_||"_R.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;
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*/

%if &var3.=12 and &seppage.=2 and (&var4. = 0 or &var4. = 3) %then %do;
    IF TIMEPD = "April, 2003 to March, 2004" 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>";
    /*** 2-2 MAB removed scale row ***/
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.=7 OR &var3.=8 OR &var3.=9 OR &var3.=10 %then %do;
                                     ***MJS 4/23/03 Changed 8/9/10/11 to 7/8/9/10;
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 = "Problems Getting Personal Doctor/Nurse";
      %end;
      %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Problems Getting To See Specialist";   ***MJS 5/7/04 Changed
label;
      %end;
      %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Problems Getting Necessary Care";
      %end;
      %else %if &var4. = 4 %then %do;
        IF BENTYPE = "Delays In Care While Awaiting Approval";
      %end;
    %end;
    %else %if &var3. = 2 %then %do;
      %if &var4. = 1 %then %do;
        IF BENTYPE = "Advice Over Telephone";
      %end;
      %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Wait For Routine Visit";
      %end;
      %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Wait For Urgent Care";
      %end;
      %else %if &var4. = 4 %then %do;
        IF BENTYPE = "Wait In Doctor's Office";   ***MJS 5/7/04 Changed label;
      %end;
    %end;
    %else %if &var3. = 3 %then %do;
      %if &var4. = 1 %then %do;
        IF BENTYPE = "Courteous And Respectful";
      %end;
      %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Helpful";

```

```

%end;
%end;
%else %if &var3. = 4 %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. = 5 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Problem Finding/Understanding Written Material";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Problem Getting Help From Customer Service";
    %end;
    %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Problem With Paperwork";
    %end;
%end;
%else %if &var3. = 6 %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. = 11 %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;
    %else %if &var4. = 5 %then %do;
        IF BENTYPE = "Cholesterol Testing";
    %end;
%end;
%else %if &var3. = 12 %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="Standard/Extra Users" THEN MAJNUM=3; ***MJS 05/04/03 Removed Civilian PCM;
IF MAJGRP="Active Duty" THEN MAJNUM=4; ***(MAJNUM=3), and changed 4-8 to 3-7;
IF MAJGRP="Active Duty Dependents" THEN MAJNUM=5;
IF MAJGRP="Retirees and Dependents" THEN MAJNUM=6;
IF MAJGRP="All Users" THEN MAJNUM=7;

/**** 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,1,5)="CONUS" 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 12; ***RSG 02/2005 Changed 11 to 12 for 12 Benefits;
%if &i.^=7 AND &i.^=8 AND &i.^=9 AND &i.^=10 %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"); /**** 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 ****/
/**** UU FRAMES SECTION UU ****/
%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;
        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 '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;
    %if &var3.=0 %then %do;
      FILE XLSDATA;
      PUT; PUT;
      PUT "Source: &SRFYR2 Health Care Survey of DOD Beneficiaries";  ***MJS 03/24/04 Changed
hard-coded year to macro variable;
      PUT "Indicates score significantly exceeds benchmark";
      PUT "Indicates score significantly falls short of benchmark";
      PUT "NA Indicates not applicable";
      PUT "**** Indicates suppressed due to small sample size";
    %end;
    %else %if (&var3.=5 and (&var4.=3 or &var4.=0) and &seppage.=2) or
      (&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
      (&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
      FILE XLSDATA;
      PUT; PUT;
      PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and &SRFYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
      PUT "Indicates score significantly exceeds benchmark";
      PUT "Indicates score significantly falls short of benchmark";
      PUT "NA Indicates not applicable";
      PUT "**** Indicates suppressed due to small sample size";
    %end;
    %else %if &var3.ne 0 %then %do;
      FILE XLSDATA;
      PUT; PUT;
      PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and &SRFYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
      PUT "Indicates score significantly exceeds benchmark";
      PUT "Indicates score significantly falls short of benchmark";

```

```

        PUT "NA Indicates not applicable";
        %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
            PUT "** Indicates scores were not available that quarter";
        %end;
        PUT "*** Indicates suppressed due to small sample size";
    %end;
%end;

/*-----*/
/* 2000/11: end xls code */
/*-----*/

END;
RUN;
%end;

/* All Regions */
%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 12; ***RSG 02/2005 changed 11 to 12 since we now have 12 benefits;
                    %if &i.^=7 AND &i.^=8 AND &i.^=9 AND &i.^=10 %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;

                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 ***/
/** ÔÔ FRAMES SECTION ÔÔ ***/
%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="CONUS MHS" then do;
    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="CONUS MHS" then do;
    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;
%end;

```

```

        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,1,5) = "CONUS" 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;
            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;
    %if &var3.=0 %then %do;
        FILE XLSDATA;
        PUT; PUT;
        PUT "Source: &SRFYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04 Changed
hard-coded year to macro variable;
        PUT "Indicates score significantly exceeds benchmark";
        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates not applicable";
        PUT "**** Indicates suppressed due to small sample size";
    %end;
    %else %if (&var3.=5 and (&var4.=3 or &var4.=0) and &seppage.=2) or
        (&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
        (&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
        FILE XLSDATA;
        PUT; PUT;
        PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and &SRFYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
        PUT "Indicates score significantly exceeds benchmark";
        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates not applicable";
        PUT "**** Indicates suppressed due to small sample size";
    %end;
    %else %if &var3.ne 0 %then %do;
        FILE XLSDATA;
        PUT; PUT;

```

```

        PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and &SRFYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
        PUT "Indicates score significantly exceeds benchmark";
        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates not applicable";
        %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
            PUT "** Indicates scores were not available that quarter";
        %end;
        PUT "*** Indicates suppressed due to small sample size";
    %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 /*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,1,5) = "CONUS" 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,1,5) = "CONUS") 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 */
        /*-----*/
    END;

```

```

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 '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;
  %if &var3.=0 %then %do;
  FILE XLSDATA;
  PUT; PUT;
  PUT "Source: &SRFYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04 Changed
hard-coded year to macro variable;
  PUT "Indicates score significantly exceeds benchmark";
  PUT "Indicates score significantly falls short of benchmark";
  PUT "NA Indicates not applicable";
  PUT "*** Indicates suppressed due to small sample size";
  %end;
  %else %if (&var3.=5 and (&var4.=3 or &var4.=0) and &seppage.=2) or
  (&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
  (&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
  FILE XLSDATA;
  PUT; PUT;
  PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and &SRFYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
  PUT "Indicates score significantly exceeds benchmark";
  PUT "Indicates score significantly falls short of benchmark";
  PUT "NA Indicates not applicable";
  PUT "*** Indicates suppressed due to small sample size";
  %end;
  %else %if &var3.ne 0 %then %do;
  FILE XLSDATA;
  PUT; PUT;
  PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and &SRFYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
  PUT "Indicates score significantly exceeds benchmark";
  PUT "Indicates score significantly falls short of benchmark";
  PUT "NA Indicates not applicable";
  %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
  PUT "** Indicates scores were not available that quarter";
  %end;
  PUT "*** Indicates suppressed due to small sample size";
  %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.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");    ***MJS 05/04/03 Removed Civilian
PCM;
majgrp4=COMPRESS("&prefix.4-&var2.-&var3.-&var4.&q..htm");    *(majgrp3), and changed 4-8 to
3-7;
majgrp5=COMPRESS("&prefix.5-&var2.-&var3.-&var4.&q..htm");
majgrp6=COMPRESS("&prefix.6-&var2.-&var3.-&var4.&q..htm");
majgrp7=COMPRESS("&prefix.7-&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.^=3 and &var1.^=5 and &var1.^=6 and &var2.^=0 %then %do;    ***MJS 05/04/03 Removed
Civilian PCM (&var1.^=3), changed 4,6,7 to 3,5,6,;
        ***and changed MAJGRP 5&8 below to 4&7;
        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="" MAJGRP4 +(-1) "" &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP7 +(-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'>Standard/Extra
Users</font></a>&htmlsp.&htmlsp.";    ***MJS 05/04/03 Removed Civilian PCM;
        PUT "<a href="" MAJGRP4 +(-1) "" &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";    *(MAJGRP5), and changed 4-8 to 3-7;
        PUT "<br>";
        PUT "<a href="" MAJGRP5 +(-1) "" &target.><font face='&fontface.' size='2'>Active Duty
Dependents</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP6 +(-1) "" &target.><font face='&fontface.' size='2'>Retirees and
Dependents</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP7 +(-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;
    HREFFP=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..htm");
    PUT "    <BR><font face='Arial,Helvetica,Swiss,Geneva' size='1'><a href=' " HREFFP "
&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;
        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 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;

```

```

/**** Increment Row and Column pointers ****/
/*    COLUMN=COLUMN+1;
IF &var3.in (0,7,8,9,10) and COLUMN>&columns. THEN DO;    ***MJS 4/23/03 Changed 8/9/10/11 to
7/8/9/10;
    ROW=ROW+1;
    COLUMN=2;
END;
ELSE IF COLUMN>&columns.+1 THEN DO;
    ROW=ROW+1;
    COLUMN=2;
END;
*** RSG/MAB - 10/13/03 - changes for new template format */

```

```

COLUMN=COLUMN+1;
IF COLUMN>&columns. THEN DO;
    ROW=ROW+1;
    COLUMN=2;
END;

```



```

/**** Create 7 HTML pages (7 Majgrps / All Regions / All Benefits)****/
%MACRO DOALL1();
    %MKHTML(1,0,0,0,0);
    %MKHTML(2,0,0,0,0);
    %MKHTML(4,0,0,0,0);
    %MKHTML(7,0,0,0,0);
    %MKHTML(3,0,0,0,0);    ***MJS 05/04/03 Removed Civilian PCM (Majgrp 3), and changed 4-8
to 3-7;
    %MKHTML(5,0,0,0,0);
    %MKHTML(6,0,0,0,0);
%MEND DOALL1;

/**** Create 322 HTML pages (7 Majgrps / All Regions / 12 Benefits)****/
%MACRO DOALL2();
    %DO J=1 %TO 7;
        %DO K=1 %TO 12;    * 12 Sub-benefits ;    /**** MAB Changed to 12
2/11/2005 ****/
            %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.^=7 AND &k.^=8 AND &k.^=9 AND &k.^=10 %then %do;
                %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 11 %THEN %DO L= 0 %TO 4;
            ***RSG 08/07/03 There are different number of
                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. = 3 OR &K. = 6 %THEN %DO L = 0 %TO 2;
                %MKHTML(&J.,0,&K.,2,&L.);
            %END;
            %ELSE %IF &K. = 5 OR &K.=12 %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 12;
            %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 OR &K. = 11 %THEN %DO L = 0 %TO 4;    ***RSG
08/07/03 Counter "L" for different number;
                %MKHTML(0,&J.,&K.,2,&L.);
            *number of sub-benefit trend pages for each benefit;
            %END;
            %ELSE %IF &K. = 3 OR &K. = 6 %THEN %DO L = 0 %TO 2;
                %MKHTML(0,&J.,&K.,2,&L.);
            %END;
            %ELSE %IF &K. = 5 OR &K.=12 %THEN %DO L = 0 %TO 3;
                %MKHTML(0,&J.,&K.,2,&L.);
            %END;
        %END;
    %END;
%MEND DOALL4;

```

```

        %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.8.A REPORTCARDS\CAHPS_ADULT2006\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 H06007>=2) THEN GROUP1 = 1
*     IF (XENR_PCM IN (1,2,6) AND H06007>=2) THEN GROUP2 = 1
*     IF (XENR_PCM = 3,7 AND H06007>=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) November 3, 2006 by Keith Rathbun, added in annual code.
*
*

```

```

* INPUTS:  1) HCSyyq_1 - DoD Quarterly HCS Database
*
* OUTPUTS: 1) GROUP1-8.SD2 - 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.
*

```

```

*****;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr NOOVP COMPRESS=YES;
LIBNAME OUT V612 "DATA";
LIBNAME IN1 V612 "..\..\Data";
LIBNAME LIBRARY "..\..\Data\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.HCS06A_1(KEEP=
    MPRID
    FIELDAGE /*MJS 01/26/04*/
    XTNEXREG

```



```

SERVAFF      /*KRR 04/09/04*/
XCATCH      /*KRR 10/27/06*/
QUARTER     /*KRR 10/27/06*/
CONUS
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.
H06028
/* Getting Needed Care */
H06011
H06013
H06027
H06029
/* Getting Care Quickly */
H06017
H06022
H06019
H06030
/* How Well Doctors Communicate */
H06033
H06034
H06035
H06036
/* Courteous and Helpful Office Staff */
H06031
H06032
/* Customer Service */
H06043
H06045
H06047
/* Claims Processing */
H06040
H06041 /*******/
H06066 /* Health Status */
H06037 /* Health Care Rating */
H06048 /* Health Plan Rating */
H06009 /* Personal Doctor Rating */
H06015 /* Specialist Rating */
H06007 /* 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; *KRR added 11/07/2006;
IF XTNEXREG = . THEN DELETE;
IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;

/* 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;
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;
    AGE1824=0;
    AGE2534=0;
    AGE3544=0;
    AGE4554=0;
    AGE5564=0;
    AGE6574=0;
    AGE75UP=0;
    IF ( '018' <= FIELDAGE <= '024' ) THEN AGE1824=1;
    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 (XINS_COV IN (1,2,6) AND H06007>=2) THEN GROUP1 = 1;
IF (XENR_PCM IN (1,2,6) AND H06007>=2) THEN GROUP2 = 1;
IF (XENR_PCM IN (3,7) AND H06007>=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;

*****
* 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 QUARTER NE "Q4_2003" THEN DO; /* KRR 10/27/06 - NA for 2003 */
  IF H06028 = 2 THEN H06029 = 3; /* ES 4/28/04 - Change in scoring method*/
END;

IF H06017 = 1 THEN R06017 = 1;
ELSE IF H06017 = 2 THEN R06017 = 1;
ELSE IF H06017 = 3 THEN R06017 = 2;
ELSE IF H06017 = 4 THEN R06017 = 3;
ELSE IF H06017 < 0 THEN R06017 = .;

IF H06022 = 1 THEN R06022 = 1;
ELSE IF H06022 = 2 THEN R06022 = 1;
ELSE IF H06022 = 3 THEN R06022 = 2;
```

```

ELSE IF H06022 = 4 THEN R06022 = 3;
ELSE IF H06022 < 0 THEN R06022 = .;

IF H06019 = 1 THEN R06019 = 1;
ELSE IF H06019 = 2 THEN R06019 = 1;
ELSE IF H06019 = 3 THEN R06019 = 2;
ELSE IF H06019 = 4 THEN R06019 = 3;
ELSE IF H06019 < 0 THEN R06019 = .;

IF QUARTER = "Q4_2003" THEN DO;
/* KRR 11/06/06 - Reverse code 15 min. wait? for Q4CY2003 */
IF H06030 = 1 THEN R06030 = 4;
ELSE IF H06030 = 2 THEN R06030 = 3;
ELSE IF H06030 = 3 THEN R06030 = 2;
ELSE IF H06030 = 4 THEN R06030 = 1;
ELSE IF H06030 < 0 THEN R06030 = .;

IF R06030 IN (1,2) THEN R06030 = 1;
ELSE IF R06030 = 3 THEN R06030 = 2;
ELSE IF R06030 = 4 THEN R06030 = 3;
END;
ELSE DO;
IF H06030 = 1 THEN R06030 = 1;
ELSE IF H06030 = 2 THEN R06030 = 1;
ELSE IF H06030 = 3 THEN R06030 = 2;
ELSE IF H06030 = 4 THEN R06030 = 3;
ELSE IF H06030 < 0 THEN R06030 = .;
END;

IF H06031 = 1 THEN R06031 = 1;
ELSE IF H06031 = 2 THEN R06031 = 1;
ELSE IF H06031 = 3 THEN R06031 = 2;
ELSE IF H06031 = 4 THEN R06031 = 3;
ELSE IF H06031 < 0 THEN R06031 = .;

IF H06032 = 1 THEN R06032 = 1;
ELSE IF H06032 = 2 THEN R06032 = 1;
ELSE IF H06032 = 3 THEN R06032 = 2;
ELSE IF H06032 = 4 THEN R06032 = 3;
ELSE IF H06032 < 0 THEN R06032 = .;

IF H06033 = 1 THEN R06033 = 1;
ELSE IF H06033 = 2 THEN R06033 = 1;
ELSE IF H06033 = 3 THEN R06033 = 2;
ELSE IF H06033 = 4 THEN R06033 = 3;
ELSE IF H06033 < 0 THEN R06033 = .;

IF H06034 = 1 THEN R06034 = 1;
ELSE IF H06034 = 2 THEN R06034 = 1;
ELSE IF H06034 = 3 THEN R06034 = 2;
ELSE IF H06034 = 4 THEN R06034 = 3;
ELSE IF H06034 < 0 THEN R06034 = .;

IF H06035 = 1 THEN R06035 = 1;
ELSE IF H06035 = 2 THEN R06035 = 1;
ELSE IF H06035 = 3 THEN R06035 = 2;
ELSE IF H06035 = 4 THEN R06035 = 3;
ELSE IF H06035 < 0 THEN R06035 = .;

IF H06036 = 1 THEN R06036 = 1;
ELSE IF H06036 = 2 THEN R06036 = 1;
ELSE IF H06036 = 3 THEN R06036 = 2;
ELSE IF H06036 = 4 THEN R06036 = 3;
ELSE IF H06036 < 0 THEN R06036 = .;

IF H06040 = 1 THEN R06040 = 1;
ELSE IF H06040 = 2 THEN R06040 = 1;
ELSE IF H06040 = 3 THEN R06040 = 2;
ELSE IF H06040 = 4 THEN R06040 = 3;
ELSE IF H06040 < 0 THEN R06040 = .;

IF H06041 = 1 THEN R06041 = 1;
ELSE IF H06041 = 2 THEN R06041 = 1;

```

```

ELSE IF H06041 = 3 THEN R06041 = 2;
ELSE IF H06041 = 4 THEN R06041 = 3;
ELSE IF H06041 < 0 THEN R06041 = .;

*****
* Recode variables to one missing condition ".".
* This also renames all the "H0xxxx" to "R0xxxx".
*****;
R06011 = H06011; IF R06011 < 0 THEN R06011 = .;
R06009 = H06009; IF R06009 < 0 THEN R06009 = .;
R06013 = H06013; IF R06013 < 0 THEN R06013 = .;
R06015 = H06015; IF R06015 < 0 THEN R06015 = .;
R06027 = H06027; IF R06027 < 0 THEN R06027 = .;
R06029 = H06029; IF R06029 < 0 THEN R06029 = .;
R06037 = H06037; IF R06037 < 0 THEN R06037 = .;
R06043 = H06043; IF R06043 < 0 THEN R06043 = .;
R06045 = H06045; IF R06045 < 0 THEN R06045 = .;
R06047 = H06047; IF R06047 < 0 THEN R06047 = .;
R06048 = H06048; IF R06048 < 0 THEN R06048 = .;
R06066 = H06066; IF R06066 < 0 THEN R06066 = .;

*****
* 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";

%CONT1(DSN=ENTIRE, NUM=7, Y=R06011 R06013 R06027 R06029
      R06043 R06045 R06047);
%CONT2(DSN=ENTIRE, NUM=4, Y=R06037 R06048 R06009 R06015);
%CONT3(DSN=ENTIRE, NUM=12, Y=R06017 R06022 R06019 R06030
      R06033 R06034 R06035 R06036
      R06031 R06032 R06040 R06041);

*****
* 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
      CONUS
      ENBGSMPPL
      XSEXA
      STRATUM /*KRR 04/03/2006 Changed from ADJ_CELL*/
      XINS_COV
      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

      ENBGSMPPL
      XINS_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 H06011 R06011 /*MJS 03/24/04 Changed 2003 to 2004 variable names*/
      H06009 R06009
      H06013 R06013
      H06015 R06015
      H06017 R06017
      H06022 R06022
      H06019 R06019
      H06027 R06027
      H06029 R06029
      H06030 R06030
      H06031 R06031
      H06032 R06032
      H06033 R06033
      H06034 R06034
  ;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded question variables';
  VAR H06035 R06035
      H06036 R06036
      H06037 R06037
      H06040 R06040
      H06041 R06041
      H06043 R06043
      H06045 R06045
      H06047 R06047
      H06048 R06048
      H06066 R06066
  ;
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
      H06011
      H06009
      H06013
      H06015
      H06017
      H06022
      H06019
      H06027
      H06029
      H06030
      H06031
      H06032
      H06033
      H06034
      H06035
      H06036
      H06037
      H06040
      H06041
      H06043
      H06045
      H06047
      H06048
      H06066
  ;
  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.8.B REPORTCARDS\CAHPS_ADULT2006\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.8.C REPORTCARDS\CAHPS_ADULT2006\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.
/*
/* SUBGROUPS
/*
/* -----
/*     Seven subgroups           Definitions           Reg or Catch   Macro
/* -----
/* 1. Prime enrollees           XINS_COV IN(1,2,6) AND H06007>=4   Catchment     SCORE1
/* 2. Enrollees w/mil PCM       XENR_PCM IN(1,2,6) AND H06007>=4   Catchment     SCORE1
/* 3. Enrollees w/civ PCM       XENR_PCM = 3           AND H06007>=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 V612 "DATA";
LIBNAME OUT V612 "DATA";
LIBNAME OUT2 V612 "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 = 23;

* 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 = R06066;
%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 = R06011;
%LET DEPVAR2 = R06013;
%LET DEPVAR3 = R06027;
%LET DEPVAR4 = R06029;

*****
* GETTING NEEDED CARE QUICKLY.
*****;
%LET DEPVAR5 = R06017;
%LET DEPVAR6 = R06022;
%LET DEPVAR7 = R06019;
%LET DEPVAR8 = R06030;

*****
* HOW WELL DOCTORS COMMUNICATE.
*****;
%LET DEPVAR9  = R06033;
%LET DEPVAR10 = R06034;
%LET DEPVAR11 = R06035;
%LET DEPVAR12 = R06036;

*****
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%LET DEPVAR13 = R06031;
%LET DEPVAR14 = R06032;

*****
* CUSTOMER SERVICE.
*****;
%LET DEPVAR15 = R06043;
%LET DEPVAR16 = R06045;
%LET DEPVAR17 = R06047;

*****
* CLAIMS PROCESSING.
*****;
%LET DEPVAR18 = R06040;
%LET DEPVAR19 = R06041;

*****
* RATING ALL HEALTH CARE: 0 - 10.
*****;
%LET DEPVAR20 = R06037;

*****
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%LET DEPVAR21 = R06048;

*****
* RATING OF PERSONAL DR: 0 - 10.
*****;

```

```

%LET DEPVAR22 = R06009;

*****
* SPECIALITY CARE: 0 - 10.
*****;
%LET DEPVAR23 = R06015;

proc freq data=inl.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 SKELREG;
  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 'REGSRREG.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;
    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 NEWADJST;
  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 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 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 " ";
%END;

```

```

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;
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 inconvient, 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 'REGRSREG.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 AGECONT(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;          *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;
    IF CATCNT(I) > 0 THEN DO;
        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;
    IF REGCNT(I) > 0 THEN DO;
        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;
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.8.D REPORTCARDS\CAHPS_ADULT2006\REGRSREG.INC - INCLUDE FILE1 IN STEP2.SAS.

```
MODEL R06015 =  
R06066  
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  
REG24  
;
```

G.8.E REPORTCARDS\CAHPS_ADULT2006\RISKARRY.INC - INCLUDE FILE2 IN STEP2.SAS.

```
ARRAY COEFFS(*) $8  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R06066  
;
```

G.8.F REPORTCARDS\CAHPS_ADULT2006\RISKMEAN.INC - INCLUDE FILE3 IN STEP2.SAS.

```
ARRAY MEANS(*) $8  
    MEAN01  
    MEAN02  
    MEAN03  
    MEAN04  
    MEAN05  
    MEAN06  
    ;
```

G.8.G REPORTCARDS\CAHPS_ADULT2006\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  
  REG24  
;
```

G.8.H REPORTCARDS\CAHPS_ADULT2006\RISKVARS.INC - INCLUDE FILE5 IN STEP2.SAS.

```
VAR  
  AGE1824  
  AGE2534  
  AGE3544  
  AGE4554  
  AGE5564  
  R06066  
;
```

G.8.I REPORTCARDS\CAHPS_ADULT2006\MEANFILE.INC - INCLUDE FILE6 IN STEP2.SAS.

```
OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN =  
    MEAN01  
    MEAN02  
    MEAN03  
    MEAN04  
    MEAN05  
    MEAN06  
    ;
```

G.8.J REPORTCARDS\CAHPS_ADULT2006\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.
*****;
OPTIONS NOCENTER NOFMterr LS=132 PS=78 SOURCE SOURCE2 NOOVP COMPRESS=YES;
libname in v612 "data";
libname in2 v612 "data\adulthatfiles";
libname out v612 "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 fwrwt;
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 _name_="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;
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=R06011,var2=R06013,var3=R06027,var4=R06029,qcount=4);
%COMPOSIT (type=R,compos=2,var1=R06017,var2=R06022,var3=R06019,var4=R06030,qcount=4);
%COMPOSIT (type=R,compos=3,var1=R06033,var2=R06034,var3=R06035,var4=R06036,qcount=4);
%COMPOSIT (type=R,compos=4,var1=R06031,var2=R06032,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R06043,var2=R06045,var3=R06047,qcount=3);
%COMPOSIT (type=R,compos=6,var1=R06040,var2=R06041,qcount=2);

%COMPOSIT (type=C,compos=1,var1=R06011,var2=R06013,var3=R06027,var4=R06029,qcount=4);
%COMPOSIT (type=C,compos=2,var1=R06017,var2=R06022,var3=R06019,var4=R06030,qcount=4);
%COMPOSIT (type=C,compos=3,var1=R06033,var2=R06034,var3=R06035,var4=R06036,qcount=4);
%COMPOSIT (type=C,compos=4,var1=R06031,var2=R06032,qcount=2);
%COMPOSIT (type=C,compos=5,var1=R06043,var2=R06045,var3=R06047,qcount=3);
%COMPOSIT (type=C,compos=6,var1=R06040,var2=R06041,qcount=2);

```

G.8.K REPORTCARDS\CAHPS_ADULT2006\FILES.INC - INCLUDE FILE IN COMPOSIT.SAS.

```
SET  
  IN.C_R06040  
  IN.C_R06041  
;
```

G.9.A LOADWEB\LOADCAHP.SAS - CONVERT CAHPS SCORES INTO WEB LAYOUT - ANNUAL.

```

*****
*
* PROGRAM:  LOADCAHP.SAS
* TASK:    2006 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.
*
* INPUTS:  1) CAHPS Individual and Composite data sets with adjusted scores
*
* OUTPUT:  1) LOADCAHP.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:
*   - 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.SD2) will be run through the
*   MAKEHTML.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN  V612 "..\REPORTCARDS\CAHPS_ADULT2006\DATA";
LIBNAME OUT V612 ".";
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 = 2006;

*****
* 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 H06007>=2
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H06007>=2
* 3. Enrollees w/civ PCM  XENR_PCM = 3 AND H06007>=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 $5; /*RSG 02/2005*/
  *****;
  * Assign Region;
  *****;
  %IF &REGCAT = Region %THEN %DO;
    REGION = PUT(XSERVREG,SERVREGF.);
  %END;
  %ELSE %IF &REGCAT = Catchment %THEN %DO;
    REGION = PUT(XSERVIND,SERVREGO.);
  %END;
  *****;
  * Assign benefit and benefit type;
  *****;
  IF "&TYPE" = "INDIVIDUAL" THEN DO;
    IF DEPENDNT IN("R06037","R06048","R06009","R06015") THEN
      BENTYPE = "Composite";
    ELSE
      BENTYPE = PUT(DEPENDNT,$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.);
SCORE = ADJ1;
SEMEAN = SEMEAN1;
N_OBS = &PREFIX.CNT1;
N_WGT = &PREFIX.WGT1;
OUTPUT;
*****;
* 2 = Enrollees with military PCM ;
*****;
MAJGRP = PUT(2,MAJGRP.);
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.);
  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.);
  SCORE = ADJ4;
  SEMEAN = SEMEAN4;
  N_OBS = &PREFIX.CNT4;
  N_WGT = &PREFIX.WGT4;
  OUTPUT;
%END;
*****;
* 5 = Active duty;
*****;
MAJGRP = PUT(5,MAJGRP.);
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.);
  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,MAJGRPF.);
        SCORE = ADJ7;
        SEMEAN = SEMEAN7;
        N_OBS = &PREFIX.CNT7;
        N_WGT = &PREFIX.WGT7;
        OUTPUT;
    %END;
    *****;
    * 8 = All Beneficiaries ;
    *****;
    MAJGRP = PUT(8,MAJGRPF.);
    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=RCOMPOS1,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R06011,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06013,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06027,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06029,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS1,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R06011,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06013,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06027,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06029,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* COMPOSITE # 2.;
* GETTING CARE QUICKLY VARIABLES.;
*****;
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R06017,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06019,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06022,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06030,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS2,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R06017,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06019,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06022,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06030,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* COMPOSITE # 3.;
* HOW WELL DOCTORS COMMUNICATE.;
*****;
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R06033,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06034,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06035,TYPE=INDIVIDUAL,REGCAT=Region);

```



```

%PROCESS(QUESTION=R_R06036,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS3,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R06033,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06034,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06035,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06036,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* COMPOSITE # 4.;
* COURTEOUS AND HELPFUL OFFICE STAFF.;
*****;
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R06031,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06032,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS4,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R06031,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06032,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* COMPOSITE # 5.;
* CUSTOMER SERVICE.;
*****;
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE, REGCAT=Region );
%PROCESS(QUESTION=R_R06043,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06045,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06047,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS5,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R06043,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06045,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06047,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* COMPOSITE # 6.;
* CLAIMS PROCESSING.;
*****;
%PROCESS(QUESTION=RCOMPOS6,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R06040,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R06041,TYPE=INDIVIDUAL,REGCAT=Region);

%PROCESS(QUESTION=CCOMPOS6,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R06040,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R06041,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* INDIVIDUAL # 1.;
* RATING OF ALL HEALTH CARE: 0 - 10.;
*****;
%PROCESS(QUESTION=R_R06037,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=C_R06037,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* INDIVIDUAL # 2.;
* RATING OF HEALTH PLAN: 0 - 10.;
*****;
%PROCESS(QUESTION=R_R06048,TYPE=INDIVIDUAL,REGCAT=Region)
%PROCESS(QUESTION=C_R06048,TYPE=INDIVIDUAL,REGCAT=Catchment)

*****;
* INDIVIDUAL # 3.;
* RATING OF PERSONAL DOCTOR: 0 - 10.;
*****;
%PROCESS(QUESTION=R_R06009,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=C_R06009,TYPE=INDIVIDUAL,REGCAT=Catchment);

*****;
* INDIVIDUAL # 4.;
* SPECIALTY CARE: 0 - 10.;
*****;
%PROCESS(QUESTION=R_R06015,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=C_R06015,TYPE=INDIVIDUAL,REGCAT=Catchment);

```

```

*****;
*****;
* STACK up all of the files into one final output dataset.;
*****;
*****;
DATA OUT.LOADCAHP;
  SET R_R06011 C_R06011
      R_R06013 C_R06013
      R_R06027 C_R06027
      R_R06029 C_R06029
      R_R06017 C_R06017
      R_R06019 C_R06019
      R_R06022 C_R06022
      R_R06030 C_R06030
      R_R06033 C_R06033
      R_R06034 C_R06034
      R_R06035 C_R06035
      R_R06036 C_R06036
      R_R06031 C_R06031
      R_R06032 C_R06032
      R_R06043 C_R06043
      R_R06045 C_R06045
      R_R06047 C_R06047
      R_R06040 C_R06040
      R_R06041 C_R06041
      R_R06037 C_R06037
      R_R06048 C_R06048
      R_R06009 C_R06009
      R_R06015 C_R06015
      RCOMPOS1 CCOMPOS1
      RCOMPOS2 CCOMPOS2
      RCOMPOS3 CCOMPOS3
      RCOMPOS4 CCOMPOS4
      RCOMPOS5 CCOMPOS5
      RCOMPOS6 CCOMPOS6
  ;
  IF SCORE = . THEN DELETE;
RUN;

TITLE1 "2006 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.SD2 - Combined CAHPS Scores Database in WEB layout";

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;

```

G.9.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 (8860-410)
* 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 BENTYPF = 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.
*
* 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 = "CONUS 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 = "CONUS ARMY"
26 = "CONUS AIR FORCE"
27 = "CONUS NAVY"
28 = "CONUS 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" "
"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"
/*****
/* Admin. Year Defn. */
/* 2001 2002 2003 2004 2005 2006 */
/*****
"R0007 ", "R0209 ", "R0309 ", "R04011", "R05011", "R06011" = "Problems Getting Personal
Doctor/Nurse
"R0014 ", "R02016 ", "R03013 ", "R04013", "R05013", "R06013" = "Problems Getting Referral
to Specialist
"R0028 ", "R02030 ", "R03027 ", "R04028", "R05027", "R06027" = "Problems Getting Necessary
Care
"R0029 ", "R02031 ", "R03028 ", "R04030", "R05029", "R06029" = "Delays in Care while
Awaiting Approval
"R0019 ", "R02021 ", "R03018 ", "R04018", "R05017", "R06017" = "Advice over Telephone
"
"R0021 ", "R02023 ", "R03020 ", "R04023", "R05022", "R06022" = "Wait for Routine Visit
"
"R0024 ", "R02026 ", "R03023 ", "R04020", "R05019", "R06019" = "Wait for Urgent Care
"
"R0030 ", "R02032 ", "R03029 ", "R04031", "R05030", "R06030" = "Wait More than 15 Minutes
Past Appointment
"R0033 ", "R02035 ", "R03032 ", "R04034", "R05033", "R06033" = "Listens Carefully
"
"R0034 ", "R02036 ", "R03033 ", "R04035", "R05034", "R06034" = "Explains so You can
Understand
"R0035 ", "R02037 ", "R03034 ", "R04036", "R05035", "R06035" = "Shows Respect
"
"R0036 ", "R02038 ", "R03035 ", "R04037", "R05036", "R06036" = "Spends Time with You
"
"R0031 ", "R02033 ", "R03030 ", "R04032", "R05031", "R06031" = "Courteous and Respectful
"
"R0032 ", "R02034 ", "R03031 ", "R04033", "R05032", "R06032" = "Helpful
"
"R0048 ", "R02048 ", "R03044 ", "R04045", "R05043", "R06043" = "Problem
Finding/Understanding Written Material"
"R0050 ", "R02050 ", "R03046 ", "R04047", "R05045", "R06045" = "Problem Getting Help from
Customer Service
"R0055 ", "R02055 ", "R03051 ", "R04053", "R05047", "R06047" = "Problem with Paperwork
"
"R0044 ", "R02044 ", "R03040 ", "R04041", "R05040", "R06040" = "Claims Handled in a
Reasonable Time
"R0045 ", "R02045 ", "R03041 ", "R04042", "R05041", "R06041" = "Claims Handled Correctly
"
"R0037 ", "R02039 ", "R03036 ", "R04038", "R05037", "R06037" = "Health Care
"
"R0056 ", "R02056 ", "R03052 ", "R04054", "R05048", "R06048" = "Health Plan
"
"R0009 ", "R02011 ", "R03011 ", "R04009", "R05009", "R06009" = "Primary Care Manager
"
"R0016 ", "R02018 ", "R03015 ", "R04015", "R05015", "R06015" = "Specialty Care
"
"PHYSIC " = "Physical "
"MENTAL " = "Mental "
;
VALUE $BENEF
"RCOMPOS1", "CCOMPOS1", "R00007", "R00014", "R00028", "R00029",
"R02009", "R02016", "R02030", "R02031",
"R03009", "R03013", "R03027", "R03028",
"R04011", "R04013", "R04028", "R04030",
"R05011", "R05013", "R05027", "R05029",
"R06011", "R06013", "R06027", "R06029"
= "Getting Needed Care "
"RCOMPOS2", "CCOMPOS2", "R00019", "R00021", "R00024", "R00030",

```

```

        "R02021", "R02023", "R02026", "R02032",
        "R03018", "R03020", "R03023", "R03029",
        "R04018", "R04023", "R04020", "R04031",
        "R05017", "R05022", "R05019", "R05030",
        "R06017", "R06022", "R06019", "R06030"
= "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"
= "How Well Doctors Communicate "

"RCOMPOS4", "CCOMPOS4", "R00031", "R00032",
        "R02033", "R02034",
        "R03030", "R03031",
        "R04032", "R04033",
        "R05031", "R05032",
        "R06031", "R06032"
= "Courteous and Helpful Office Staff "

"RCOMPOS5", "CCOMPOS5", "R00048", "R00050", "R00055",
        "R02048", "R02050", "R02055",
        "R03044", "R03046", "R03051",
        "R04045", "R04047", "R04053",
        "R05043", "R05045", "R05047",
        "R06043", "R06045", "R06047"
= "Customer Service "

"RCOMPOS6", "CCOMPOS6", "R00044", "R00045",
        "R02044", "R02045",
        "R03040", "R03041",
        "R04041", "R04042",
        "R05040", "R05041",
        "R06040", "R06041"
= "Claims Processing "
"RCOMPOS11", "COMPOS11", "MENTAL", "PHYS"
= "Health Status "
/*****/
/* Admin. Year Defn. */
/* 2001      2002      2003      2004      2005      2006      */
/*****/
"R00037", "R02039", "R03036", "R04038", "R05037", "R06037" = "Health Care
"
"R00056", "R02056", "R03052", "R04054", "R05048", "R06048" = "Health Plan
"
"R00009", "R02011", "R03011", "R04009", "R05009", "R06009" = "Primary Care Manager
"
"R00016", "R02018", "R03015", "R04015", "R05015", "R06015" = "Specialty Care
"
;
VALUE BEN
/* 0 = 'Total' deleted no longer calculating total 04/2005 RSG ***/
1 = 'Getting Needed Care'
2 = 'Getting Care Quickly'
3 = 'Courteous and Helpful Office Staff'
4 = 'How Well Doctors Communicate'
5 = 'Customer Service'
6 = 'Claims Processing'
7 = 'Health Plan'
8 = 'Health Care'
9 = 'Primary Care Manager'
10 = 'Specialty Care'
11 = 'Preventive Care'
12 = 'Healthy Behavior';

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 = "Problems Getting Personal Doctor/Nurse"
2 = "Problems Getting Referral to Specialist"
3 = "Problems Getting Necessary Care"
4 = "Delays in Care while Awaiting Approval"
5 = "Composite";

VALUE GETCAREQ
1 = "Advice over Telephone"
2 = "Wait for Routine Visit"
3 = "Wait for Urgent Care"
4 = "Wait More than 15 Minutes Past Appointment"
5 = "Composite";

VALUE CRTSHELP
1 = "Courteous and Respectful"
2 = "Helpful"
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 = "Problem Finding/Understanding Written Material"
2 = "Problem Getting Help from Customer Service"
3 = "Problem with Paperwork"
4 = "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.10.A BENCHMARK\BENCHA03.SAS - CALCULATE CAHPS BENCHMARK DATA FOR HCSDB - ANNUAL.

```

*****
*
* PROGRAM:  BENCHA03.SAS
* TASK:    2006 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.
*
* 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
*****;
libname in V612 '..\..\Q2FY2006\Programs\Benchmark\Data';
libname in2 V612 '..\ReportCards\CAHPS_Adult2006\Data';
libname out V612 'Data';
LIBNAME LIBRARY  "..\..\DATA\AFINAL\FMTLIB";

%let wgt=fwrwt;

OPTIONS MLOGIC MPRINT NOCENTER 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 "CONVERT.SAS";

%CONT1(DSN=SETUP, NUM=7, Y=R06011 R06013 R06027 R06029
R06043 R06045 R06047);
%CONT2(DSN=SETUP, NUM=4, Y=R06037 R06048 R06009 R06015);
%CONT3(DSN=SETUP, NUM=12, Y=R06017 R06022 R06019 R06030
R06033 R06034 R06035 R06036
R06031 R06032 R06040 R06041);

/* GETTING NEEDED CARE */
%adjust(r06011,age1824 age2534 age3544 age4554 r06066);
%adjust(r06013,age1824 age2534 age3544 age4554 r06066);
%adjust(r06027,age1824 age2534 age3544 age4554 r06066);
%adjust(r06029,age1824 age2534 age3544 age4554 r06066);

```

```

%comp(1,r06011,r06013,r06027,r06029);

/* GETTING NEEDED CARE QUICKLY */
%adjust(r06017,age1824 age2534 age3544 age4554 r06066);
%adjust(r06022,age1824 age2534 age3544 age4554 r06066);
%adjust(r06019,age1824 age2534 age3544 age4554 r06066);
%adjust(r06030,age1824 age2534 age3544 age4554 r06066);
%comp(2,r06017,r06022,r06019,r06030);

/* HOW WELL DOCTORS COMMUNICATE */
%adjust(r06033,age1824 age2534 age3544 age4554 r06066);
%adjust(r06034,age1824 age2534 age3544 age4554 r06066);
%adjust(r06035,age1824 age2534 age3544 age4554 r06066);
%adjust(r06036,age1824 age2534 age3544 age4554 r06066);
%comp(3,r06033,r06034,r06035,r06036);

/* COURTEOUS AND HELPFUL OFFICE STAFF */
%adjust(r06031,age1824 age2534 age3544 age4554 r06066);
%adjust(r06032,age1824 age2534 age3544 age4554 r06066);
%comp(4,r06031,r06032);

/* CUSTOMER SERVICE */
%adjust(r06043,age1824 age2534 age3544 age4554 r06066);
%adjust(r06045,age1824 age2534 age3544 age4554 r06066);
%adjust(r06047,age1824 age2534 age3544 age4554 r06066);
%comp(5,r06043,r06045,r06047);

/* CLAIMS PROCESSING */
%adjust(r06040,age1824 age2534 age3544 age4554 r06066);
%adjust(r06041,age1824 age2534 age3544 age4554 r06066);
%comp(6,r06040,r06041);

/* RATING ALL HEALTH CARE: 0 - 10 */
%adjust(r06037,age1824 age2534 age3544 age4554 r06066);
%comp(7,r06037);

/* RATING OF HEALTH PLAN: 0 - 10 */
%adjust(r06048,age1824 age2534 age3544 age4554 r06066);
%comp(8,r06048);

/* RATING OF PERSONAL DR: 0 - 10 */
%adjust(r06009,age1824 age2534 age3544 age4554 r06066);
%comp(9,r06009);

/* SPECIALTY CARE */
%adjust(r06015,age1824 age2534 age3544 age4554 r06066);
%comp(10,r06015);

```

G.10.B BENCHMARK\BENCHA04.SAS - CONVERT THE BENCHMARK SCORES DATABASE INTO THE WEB LAYOUT - ANNUAL.

```

*****
*
* PROGRAM:   BENCHA04.SAS
* TASK:     Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* 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.
*
* 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.SD2) will be run through the
*   MAKEHTML.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN V612 "DATA";
LIBNAME IN2 V612 "apredtest";
LIBNAME OUT V612 "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
*
*
* _____
* Adjusted Score          Definitions
* Group Number
* _____
* 1. Prime enrollees      XINS_COV IN (1,2,6) AND H06007_R>=2
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H06007_R>=2
* 3. Enrollees w/civ PCM  XENR_PCM = 3          AND H06007_R>=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
*
*****;
%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
*****;
* Assign value for BENTYPE composite year
*****;
%LET YEAR = "2006";

*****;
* Convert benchmark scores datasets into WEB layout.
*****;
%IF &CNUM<7 %THEN %DO;
  DATA INP;
    SET IN2.COMP&CNUM;
    WHERE X=&GNUM;
  RUN;
  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 = "Courteous and Helpful Office Staff";
ELSE IF &CNUM = 5 THEN BENEFIT = "Customer Service";
ELSE IF &CNUM = 6 THEN BENEFIT = "Claims Processing";
ELSE IF &CNUM = 7 THEN BENEFIT = "Health Care";
ELSE IF &CNUM = 8 THEN BENEFIT = "Health Plan";
ELSE IF &CNUM = 9 THEN BENEFIT = "Primary Care Manager";
ELSE IF &CNUM = 10 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<7 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;
END;
*****
* Now, output the individual score records
*****;
IF &NVAR GT 1|&CNUM>6 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;

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=4, VARS=r06011_&I R06013_&I R06027_&I R06029_&I,
        SE=s_r06011 S_R06013 S_R06027 S_R06029);

*****
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=&I, NVAR=4, VARS=R06017_&I R06022_&I R06019_&I R06030_&I,
        SE=S_R06017 S_R06022 S_R06019 S_R06030);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=&I, NVAR=4, VARS=R06033_&I R06034_&I R06035_&I R06036_&I,
        SE=S_R06033 S_R06034 S_R06035 S_R06036);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=&I, NVAR=2, VARS=R06031_&I R06032_&I, SE=S_R06031 S_R06032);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=&I, NVAR=3, VARS=R06043_&I R06045_&I R06047_&I,
        SE=S_R06043 S_R06045 S_R06047);

*****
* COMPOSITE # 6.
* CLAIMS PROCESSING.
*****;
%PROCESS(CNUM=6, GNUM=&I, NVAR=2, VARS=R06040_&I R06041_&I, SE=S_R06040 S_R06041);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R06037_&I, SE=S_R06037);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R06048_&I, SE=S_R06048);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R06009_&I, SE=S_R06009);

*****
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
*****;
%PROCESS(CNUM=10, GNUM=&I, NVAR=1, VARS=R06015_&I, SE=S_R06015);
%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
COMP10_1 COMP10_2 COMP10_3 COMP10_4 COMP10_5 COMP10_6 COMP10_7 COMP10_8
;
IF SCORE = . THEN DELETE;
RUN;

TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: BENCHA04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHA04.SD2 - 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.11.A REPORTCARDS\MPR_ADULT2006\PRVCOMP.SAS - CALCULATE PREVENTIVE CARE COMPOSITE SCORES - ANNUAL.

```

*****
* Project: DoD Reporting and Analysis 8860-400
* Program: PRVCOMP.SAS
* Author: Chris Rankin
* Date: 12/22/2000
*
* Modified: 1) 4/19/2001 By Keith Rathbun: Restrict population to
* xins_cov in(1,2,3,6). Use POSTSTR instead of
* adj_cell.
* 2) 10/25/01 By Daniele Beahm: Because no poststratification
* was done for q3 2000, changed POSTSTR back to ADJ_CELL
* 3) 04/09/02 modified macros the first three macros to create
* temporary datasets (instead of writing permanent datasets)
* 4) 01/29/03 By Chris Rankin: Added &YR to output variable names
* for the Trend program
* 5) 02/04/04 By Eric Schone: Updated for 2003 Annual Report. Changed
* HP_FLU to HP_CHOL. Added NORMDATA data step and IN2000 libname.
* 6) 02/05/04 By Chris Rankin: CACSMPL taken from Group8 dataset
* 7) 02/2005 By Regina Gramss: Updated for 2004 Annual Report. Changed
* codes to use XSERVREG region/service affiliation fields.
* 8) 02/2006 By Regina Gramss: Update for 2005 Report. Use 2005 data
* for normalization.
* 9) 11/3/2006 By Keith Rathbun: Updated for the overseas change
* done in the 2006 quarterly beneficiary reports.
*
* Purpose: Calculate MPR Preventive Care Composites
* Input: HCS06A_1.SD2
* Output: RFINAL.SD2
* CFINAL.SD2
* MFINAL.SD2
* SFINAL.SD2
* DFINAL.SD2
*
* Include
* Files: LOADCAHPQ.INC
* Note: Next program is Loadmprq.sas
*****
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr COMPRESS=YES;

LIBNAME IN V612 "..\..\..\DATA";
LIBNAME INNORM V612 "..\..\..\2005\DATA";
LIBNAME CACLIB V612 "..\CAHPS_Adult2006\Data";
LIBNAME OUT V612 ".";
LIBNAME LIBRARY V612 "..\..\..\DATA\FMTLIB";

%LET WGT = FWRWT;
%LET NORMWGT = CFWT;
%LET NORMDAT = HCS05A_1;
%LET DEBUG=N; /** Set to Y for Debug print of datasets **/
%LET INDATA = HCS06A_1;
%LET YRDATA=HCS06;
%LET YR = 06;

/***** 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 **/
%LET REGNUM=15; /** number of regions **/ *KRR 11/3/06: changed for 16 to 15;
%LET CATCHNUM=9999; /** number of catchment areas **/

%LET CMPNUM1=4; /** number of variables in first composite **/ /*ES 02/04/04*/
%LET CMPNUM2=3; /** number of variables in second composite **/ /*ES 02/04/04*/

%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 **/
/*TOOK OUT CHOLESTEROL 01/2006 RSG **/
%LET GOALVAR5= .90;      /** access goal                **/
%LET GOALVAR6= .90;      /** access goal                **/
%LET GOALVAR7= .98;      /** access goal                **/

%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";

*****;
* Beneficiary group note
*   Eight groups           Definitions
* -----
* 1. Prime enrollees      XINS_COV IN (1,2,6) AND H06007>=2
* 2. Enrollees w/mil PCM  XENR_PCM IN (1,2,6) AND H06007>=2
* 3. Enrollees w/civ PCM  XENR_PCM IN (3,7)   AND H06007>=2
* 4. Nonenrollees        XINS_COV IN (3)
* 5. Active duty          XBNFGRP = 1
* 6. Active duty dependents XBNFGRP = 2
* 7. Retirees             XBNFGRP IN (3,4)
* 8. All beneficiaries    ALL
*****;

*-----
* Add cacsmpl 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 ENBGSMPL &WGT FIELDAGE
  STRATUM H06022 H06019 H06030 H06007 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 */

DATA NORMDATA(KEEP=XTNEXREG XSERVREG /* KRR - CACSMPL */ &WGT
  PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
  DENV1-DENV&COMPNUM /*IN_GROUP8*/ XTNEXREG XSERVREG XSERVAFF);

  SET INNORM.&NORMDAT(KEEP=MPRID XINS_COV HP_BP
    HP_MAMOG HP_PAP HP_PRNTL /*ES 02/04/04*/
    XTNEXREG XENR_PCM XBNFGRP ENBGSMPL &NORMWGT FIELDAGE
    STRATUM H05022 H05019 H05030 H05007 XCATCH SERVAFF XREGION);

*****
* 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;

  IF XTNEXREG = . THEN DELETE;
  IF FIELDAGE >= "065" THEN DELETE; *KRR added 11/8/2006;
  IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;

  PRVVAR1=HP_PRNTL;      /** prenatal care **/
  PRVVAR2=HP_MAMOG;     /** mammography **/
  PRVVAR3=HP_PAP;       /** papsmear **/
  PRVVAR4=HP_BP;        /** blood pressure **/

```

```

/*DELETE CHOLESTEROL MEASURES - 01/2006 RSG */
PRVVAR5=H05022;          /** access var 1 **/  /*KRR 11/2006*/
PRVVAR6=H05019;          /** access var 2 **/  /*KRR 11/2006*/
PRVVAR7=H05030;          /** access var 3 **/  /*KRR 11/2006*/

/**** 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;

DATA &YRDATA(KEEP=BGROUP MHS CONUS 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); /*RSG 02/2005 Add fields used for Region breakdown*/

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;

```

```

/*IF IN_1 & NOT IN_2 THEN PUT
"&YRDATA: No Catchment Area for MPRID=" MPRID; */

*****
* 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
*****;

CELLP=1;
LENGTH TMP_CELL 8;
TMP_CELL = STRATUM; /* KRR 11/3/2006: Use STRATUM instead of ADJ_CELL */

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 = . THEN DELETE;
IF FIELDAGE >= "065" THEN DELETE; /*KRR added 11/8/2006;
IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;

PRVVAR1=HP_PRNTL; /* prenatal care */
PRVVAR2=HP_MAMOG; /* mammography */
PRVVAR3=HP_PAP; /* papsmear */
PRVVAR4=HP_BP; /* blood pressure */
/* deleted cholesterol 01/2006 RSG */
PRVVAR5=H06022; /* access var 1 */ /*KRR 11/2006*/
PRVVAR6=H06019; /* access var 2 */ /*KRR 11/2006*/
PRVVAR7=H06030; /* access var 3 */ /*KRR 11/2006*/

**** 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 &COMPNUM1 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 &COMPNUM1 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 */

/*RSG 02/2005 Add codes to define XSERVREG*/

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;

*****
* Assign indicator of CONUS based on XREGION. CONUS stands for
* Contential United States it but includes both Alaska and Hawaii.
*****;
/* RSG 02/2005 Define Conus by XTNEXREG*/

IF XTNEXREG IN (1,2,3) THEN CONUS=1;
ELSE IF XTNEXREG = 4 THEN CONUS=2;

* Prime enrollees      *;

IF (XINS_COV IN (1,2,6) AND H06007>=2) THEN DO; /*ES 02/04/04*/
    BGROUP=1;
    OUTPUT;
END;

* Enrollees with military PCMs *;

IF (XENR_PCM IN (1,2,6) AND H06007>=2) THEN DO; /*ES 02/04/04*/
    BGROUP=2;
    OUTPUT;
END;

* Enrollees with civilian PCMs *;

IF (XENR_PCM IN (3,7) AND H06007>=2) THEN DO; /*ES 02/04/04*/
    BGROUP=3;
    OUTPUT;
END;

* Nonenrollees *;

IF XINS_COV IN (3,4,5) THEN DO;
    BGROUP=4;
    OUTPUT;
END;

* Active duty      *;

IF XBNFGRP = 1 THEN DO;
    BGROUP=5;
    OUTPUT;
END;

* Active duty dependents *;

IF XBNFGRP = 2 THEN DO;
    BGROUP=6;
    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*CONUS*XSERVind*CACSMPL/MISSING LIST
  OUT=OBSCNT(DROP=PERCENT);
RUN;

PROC SORT DATA=&YRDATA; BY BGROUP MHS CONUS XSERVind CACSMPL;
RUN;

DATA HCSDB /*FAILED*/;
  MERGE &YRDATA(IN=IN_ALL) OBSCNT(IN=IN_OBS);
  BY BGROUP MHS CONUS 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 ****
**** (REGION, CACSMPL, MHS) ****
**** Note: 7/10/2000 use CONUS for MHS ****
**** Note: there are 8 variables and 8 groups ****
*****;

%MACRO A_SUDAAN(TABLEVAR);

*** set the number of levels in the proc descriptor ***;
*** 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)=CONUS %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;
%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 CONUS 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 Conus greater
than 4 which are not conus */
%END;
%IF %UPCASE(&TABLEVAR)=CONUS %THEN %DO;
IF CONUS 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 CONUS %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)=CONUS %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)=CONUS %THEN %DO;
CONUS=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 (CONUS);
%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)=CONUS %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 xservreg values to keep
to be between 1-4 **/
  %END;
  %IF %UPCASE(&BYVAR)=CONUS %THEN %DO; /* RSG 02/2005 CONUS value must be 1*/
    WHERE BGROUP=&I AND CONUS = 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(CONUS);
%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)=CONUS %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 conus values to keep to be between
1-4 **/
%END;
%ELSE %IF &PREF=C %THEN %DO;
WHERE CONUS = 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;

** 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;

** 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(CONUS);

```

```

%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                   ****;
*** Region, Catchment, MHS                     ****;
*****;
PROC FORMAT; /*RSG 02/2005 - hardcoded in prog to have caps vs format in loadcahq.inc*/
  VALUE REGIONF
    0 = "CONUS 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)=CONUS %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&COMPCNT
  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&COMPCNT
  DEN&YR.V1-DEN&YR.V&COMPNUM CP&YR.DEN1-CP&YR.DEN&COMPCNT);

  /** 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="CONUS MHS";
    REGCAT="CONUS 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;
/** RSG 1/2005 Add codes for service grouping */

/**** 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 SERRSQ{&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;
    SERRSQ{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}*nonm{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 nobs&yr.v1-nobs&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;

    /** 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(CONUS);
%GETSIG(XTNEXREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVAFF);
%GETSIG(CACSMPL);

ENDSAS;

```

G.11.B REPORTCARDS\MPR_ADULT2006\SMOKING_BMISAS - CALCULATE HEALTHY BEHAVIOR COMPOSITE SCORES - ANNUAL.

```

*****
*
* Project:    DoD Reporting and Analysis 6244-410
* 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) 11/06/2006 By Keith Rathbun, Updated for 2006 survey. Use CAHPS
*             2005 benchmark data. Added quarterly update for overseas change.
*
* Inputs:     1) 2006 Survey data: 2006\Data\HCS06A_1.SD2
*             2) 2005 CAHPS Benchmark Data: AC2005DB.SD2
*
* Output:     SMOKE.SD2
*
*****
OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr;
LIBNAME BENCH V612 "..\..\..\2005AdultChildNCBD\AC";
LIBNAME INDAT V612 "..\..\..\Data";
LIBNAME INNORM V612 "..\..\..\2005\Data";
LIBNAME OUT V612 ".";
LIBNAME LIBRARY '..\..\..\Data\fmtlib';
LIBNAME INGP '..\CAHPS_ADULT2006\DATA';

%LET DSN=HCS06A_1;
%LET DSN_NORM=HCS05A_1;
%LET REGNUM = 15; /* KRR 11/2006 Changed from 16 to 15 */
%LET CONNUM = 4;
%LET CURRENT = 2006;
%LET WGT = CFWT;
%LET NORMWGT = CFWT;
%LET CATCHNUM=9999;

DATA BENCHA01;
  SET BENCH.AC2005DB (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 ac52_05=1 & (ac53_05 in (1,2) |(ac53_05=3 & ac54_05=1)) & ac55_05>=0 & ac55_05<=4; /*11/2006
KRR Updated for 2005 variable names*/
  cessbnch=0;
  if ac55_05>0 then cessbnch=1;
RUN;

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;

DATA NORMDATA (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF XREGION
SM_RATE SM_CESS SM_RTDN SM_CSDN BMI_DN BMI
TOTCON GROUP XSEX &WGT. age_n MPCSMPL CACSMPL);
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; *KRR Updated 11/06/2006;
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 XTNEXREG = . THEN DELETE;
IF FIELDAGE >= "065" THEN DELETE; *KRR added 11/8/2006;
IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;

* prime enrollees;
IF XINS_COV IN (1,2,6) AND H05007>=2 THEN DO;
    GROUP=1;
    OUTPUT;
END;

* enrollees with military pcms;
IF XENR_PCM IN (1,2,6) AND H05007>=2 THEN DO;
    GROUP=2;
    OUTPUT;
END;

* enrollees with civilian pcms;
IF XENR_PCM = 3 AND H05007>=2 THEN DO;
    GROUP=3;
    OUTPUT;
END;

* nonenrollees;
IF XINS_COV IN (3,4,5) THEN DO;
    GROUP=4;
    OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 THEN DO;
    GROUP=5;
    OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 THEN DO;
    GROUP=6;
    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 XREGION
            CACSMPL MPCSMPL);
SET INDAT.&DSN.(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;

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; *KRR Updated 11/06/2006;
  IF XREGION = 13 THEN XSERVREG = 13;
  ELSE IF XREGION = 14 THEN XSERVREG = 14;
  ELSE IF XREGION = 15 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 */

RENAME XCATCH=CACSMPL;

IF XTNEXREG = . THEN DELETE;
IF FIELDAGE >= "065" THEN DELETE; *KRR added 11/8/2006;
IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;

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 & h06055>0 then do; /*RSG 02/2006 NEW SMOKING CESSATION FORMULA AS PER ERIC SCHONE
*/
  if h06055>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 XINS_COV IN (1,2,6) AND H06007>=2 THEN DO;
  GROUP=1;
  OUTPUT;
END;

* enrollees with military pcms;
IF XENR_PCM IN (1,2,6) AND H06007>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;

* enrollees with civilian pcms;
IF XENR_PCM = 3 AND H06007>=2 THEN DO;
  GROUP=3;
  OUTPUT;
END;

* nonenrollees;
IF XINS_COV IN (3,4,5) THEN DO;
  GROUP=4;
  OUTPUT;
END;

* active duty;
IF XBNFGRP = 1 THEN DO;
  GROUP=5;
  OUTPUT;
END;

* active duty dependents;
IF XBNFGRP = 2 THEN DO;
  GROUP=6;
  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;
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 XSEXA 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 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 */
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 A* &TABLEVAR.;
    SUBGROUP AGE_GRP XSEX A &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 */
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 Behavior";
    %IF &TYPE=RT %THEN %DO;
        BENEFIT="Non-Smoking Rate";
    %END;
    %IF &TYPE=CESS %THEN %DO;
        BENEFIT="Counselled To Quit";
    %END;
    %IF &TYPE = BM %THEN %DO;
        BENEFIT = "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 cacsmpl*xservind / list out=cacformat(drop=count percent);
run;

```

```

%MACRO MAKEDATA(PREF, TABLEVAR);
DATA &PREF._SMOKE;
SET &PREF._RT
    &PREF._CESS
    &PREF._BM
;

LENGTH MAJGRP REGION REGCAT $30.;

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.);
%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 = "CONUS 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 Behavior";
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=&CNLSGOAL;
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;

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;
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, &CNSLGOAL, &BMIGOAL))/3) THEN SIG = 1;
    ELSE IF SCORE < ((SUM(&NSMKGOAL, &CNSLGOAL, &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.11.C REPORTCARDS\MPR_ADULT2006\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 V612 ".";
LIBNAME OUT V612 ".";
LIBNAME LIBRARY V612 "..\..\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=06;
%LET YEAR=2006;
%LET EYR=04;
```

```
%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_COMP1;
N_WGT=NWGT1;
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_COMP1;
ARRAY NWGT{*} NWGT1-NWGT&CMPNUM1. NWGT1;
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.12 REPORTCARDS\MPR_ADULT2006\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 2004 to 2006.
*
* Outputs: RTREND.SD2
*           MTREND.SD2
*           CTREND.SD2
*           STREND.SD2
*           DTREND.SD2
*
* Inputs:  RFINAL.SD2
*           CFINAL.SD2
*           MFINAL.SD2
*           SFINAL.SD2
*           DFINAL.SD2
*
* Notes:   1) Next program is loadmpr.sas.
*
*****;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2;

%LET YR = 06;
%LET EYR = 04;

LIBNAME IN&YR V612 ".";
LIBNAME IN&EYR. V612 "..\..\20&EYR.\ReportCards\MPR_Adult20&EYR.";
LIBNAME OUT V612 ".";
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 H06007>=2
* 2. Enrollees w/mil PCM XENR_PCM IN (2,6) AND H06007>=2
* 3. Enrollees w/civ PCM XENR_PCM=3 AND H06007>=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&YR.{*} DEN&YR.V1-DEN&YR.V&COMPNUM CP&EYR.DEN1 CP&EYR.DEN2;
ARRAY DEN&EYR.{*} DEN&EYR.V1-DEN&EYR.V&COMPNUM CP&YR.DEN1 CP&YR.DEN2;
ARRAY NWGT{*} NWGT1-NWGT&COMPNUM NWGTC1 NWGTC2;

/** 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;
DROP I;
RUN;

%MEND TRENDS;

%TRENDS(MFINAL, MTREND);
%TRENDS(RFINAL, RTREND);

```

```
%TRENDS(CFINAL, CTREND);  
%TRENDS(SFINAL, STREND);  
%TRENDS(DFINAL, DTREND);
```

G.13.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. */
/* */
/* */
/*****/

LIBNAME OUT V612 '.';
LIBNAME IN V612 '..\ReportCards\CAHPS_Adult2006\Data'; /** Changed to group8 location for
revised cacmpl KRR 02-05-2004 ***/
LIBNAME LIBRARY V612 '..\..\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 = 2004;
%LET PERIOD2 = 2005;
%LET PERIOD3 = 2006;
%LET PERIOD4 = Trend;

DATA TEMP;
SET IN.GROUP8(KEEP=XSERVIND XSERVAFF XTNEXREG CONUS 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*cacsmpl/ noprint out=temp2;
run;

data temp3;
length cafmt $42;
set temp2 end=last; by xservind;
caf=0;
where cacsmpl ne 9999;
if first.xservind then do;
cafmt=put(xservind,servrego.);
output;
end;
cafmt=put(cacsmpl,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 = 'CONUS 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,MAJGRPF.);

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','CONUS 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 12;          ** 12 Benefits **;  /**** 12-13 MAB ****/

BENEFIT=PUT(K,BEN.);

IF K=1 THEN DO;

```

```

DO L=1 TO 5;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;
  BENTYPE=PUT(L,GETNCARE.);  ***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;
ELSE IF K=2 THEN DO;
  DO L=1 TO 5;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;
  BENTYPE=PUT(L,GETCAREQ.);  ***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;
ELSE IF K=3 THEN DO;
  DO L=1 TO 3;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;
  BENTYPE=PUT(L,CRTSHELP.);  ***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;
ELSE IF K=4 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;  ***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;
ELSE IF K=5 THEN DO;
  DO L=1 TO 4;          ***MJS 06/18/03 Added L loop and BENTYPE PUT;
  BENTYPE=PUT(L,CUSTSERV.);  ***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;
ELSE IF K=6 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;  ***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;
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;

```



```

SET FAKE2;
IF MAJGRP = "Benchmark" THEN DELETE;

IF MAJGRP = "Prime Enrollees" THEN LINEUP=1;
IF MAJGRP = "Enrollees with Military PCM" THEN LINEUP=2;
IF MAJGRP = "Enrollees with Civilian PCM" THEN LINEUP=3;
IF MAJGRP = "Standard/Extra Users" THEN LINEUP=4;
IF MAJGRP = "Active Duty" THEN LINEUP=5;
IF MAJGRP = "Active Duty Dependents" THEN LINEUP=6;
IF MAJGRP = "Retirees and Dependents" THEN LINEUP=7;
IF MAJGRP = "All Users" THEN LINEUP=8;

IF REGION = "Benchmark" THEN LINEUP1=1;
ELSE IF UPCASE(REGION) = 'CONUS 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.13.B LOADWEB\MERGFINL.SAS - MERGE THE FINAL CAHPS AND MPR SCORES DATABASES INTO THE WEB LAYOUT - ANNUAL.

```

*****
*
* PROGRAM:  MERGFINL.SAS
* TASK:     2006 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.
*
* 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 (2004,2005,2006):
*    - 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
*    - 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 V612 ".";
LIBNAME IN02 V612 ".";
LIBNAME IN03 V612 "..\2004\LOADWEB";
LIBNAME IN04 V612 "..\2005\LOADWEB";
LIBNAME IN05 V612 "..\REPORTCARDS\MPR_ADULT2006";
LIBNAME IN06 V612 "..\2004\REPORTCARDS\MPR_ADULT2004";
LIBNAME IN07 V612 "..\2005\REPORTCARDS\MPR_ADULT2005";
LIBNAME IN08 V612 "..\BENCHMARK\DATA";
LIBNAME IN09 V612 "..\2004\BENCHMARK\DATA";
LIBNAME IN10 V612 "..\2005\BENCHMARK\DATA";
LIBNAME OUT ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

%LET PERIOD4 = 2004;
%LET PERIOD5 = 2005;
%LET PERIOD6 = 2006;

*****
* 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 MERGFIL;
  SET IN02.LOADCAHP (IN=INCAHP06)
      IN03.LOADCAHP (IN=INCAHP05)
      IN04.LOADCAHP (IN=INCAHP04)
      IN05.LOADMPR (IN=INMPR06)
      IN06.LOADMPR (IN=INMPR05)
      IN07.LOADMPR (IN=INMPR04)
      IN08.BENCHA04 (IN=INBEN06)
      IN09.BENCHA04 (IN=INBEN05)
      IN10.BENCHA04 (IN=INBEN04);
  SVCAHP06 = INCAHP06;
  SVCAHP05 = INCAHP05;
  SVCAHP04 = INCAHP04;
  SVMPR06 = INMPR06 ;
  SVMPR05 = INMPR05 ;
  SVMPR04 = INMPR04 ;
  SVBEN06 = INBEN06 ;
  SVBEN05 = INBEN05 ;
  SVBEN04 = INBEN04 ;

  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=MERGFIL; BY KEY; RUN;

*****
* Append ORDERing variable to the merged Scores database file
*****;
DATA MERGFIL2 out.MISSING;
  MERGE MERGFIL(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 SVCAHP06 = 1 THEN SOURCE = "CAHPS &PERIOD6.";
  IF SVCAHP05 = 1 THEN SOURCE = "CAHPS &PERIOD5.";
  IF SVCAHP04 = 1 THEN SOURCE = "CAHPS &PERIOD4.";
  IF SVMPR06 = 1 THEN SOURCE = "MPR &PERIOD6. .";
  IF SVMPR05 = 1 THEN SOURCE = "MPR &PERIOD5. ";
  IF SVMPR04 = 1 THEN SOURCE = "MPR &PERIOD4. ";
  IF SVBEN06 = 1 THEN SOURCE = "BENCHMARK &PERIOD6.";
  IF SVBEN05 = 1 THEN SOURCE = "BENCHMARK &PERIOD5.";
  IF SVBEN04 = 1 THEN SOURCE = "BENCHMARK &PERIOD4.";

  IF IN1 AND NOT IN2 THEN OUTPUT out.MISSING; *Missing from layout;
  IF IN1 AND ORDER NE . THEN OUTPUT MERGFIL2;
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.MERGFINL(IN=IN2 KEEP=ORDER);
  BY ORDER;
  IF IN1 AND NOT IN2;
RUN;

TITLE1 "2006 DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: MERGFINL.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB Layout";
TITLE4 "Program Outputs: MERGFINL.SD2 - Merged Final Scores Database for input to MAKEHTML.SAS";

TITLE5 "MERGFINL.SD2 Data source counts";
PROC FREQ DATA=OUT.MERGFINL;
  TABLES SOURCE FLAG

  SVCAHP06 SVCAHP05 SVCAHP04
  SVMPR06 SVMPR05 SVMPR04
  SVBEN06 SVBEN05 SVBEN04

  SVCAHP06 * SVCAHP05 * SVCAHP04 *
  SVMPR06 * SVMPR05 * SVMPR04 *
  SVBEN06 * SVBEN05 * SVBEN04

/MISSING LIST;
RUN;

TITLE5 "MERGFINL.SD2 Data attribute counts";
PROC FREQ DATA=OUT.MERGFINL;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
  REGION*REGCAT
/MISSING LIST;
RUN;

TITLE5 "LAYONLY.SD2 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.SD2)";
PROC PRINT DATA=out.MISSING;
VAR MAJGRP REGION REGCAT BENTYPE BENEFIT;
RUN;

```

G.14 LOADWEB\CONUS_Q.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 funtionality.
*
* 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.
*
* 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 V612 ".";
LIBNAME OUT V612 ".";

*LIBNAME IN1 V612 "1:\2005\programs\loadweb";
*LIBNAME OUT V612 "1:\2005\programs\loadweb";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
*****
*
* 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
*****;
%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","CONUS MHS") AND

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```

        REGCAT NOT IN("Benchmark", "CONUS 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", "CONUS MHS") AND
    REGCAT NOT IN("Benchmark", "CONUS 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;
    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;

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 = "CONUS";
  FLAG = "CONUS";
  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;

```

```

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 = "CONUS";
FLAG = "CONUS";
REGION = "CONUS 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)) ||

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```

                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=Advice over Telephone,MAJGRP=Active Duty,
TYPE=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 and Respectful,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist,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 Urgent Care,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit,MAJGRP=Active Duty,
TYPE=INDIVIDUAL);

```

```

*****
* Create CONUS for Active Duty Dependents - Individual
*****;
%PROCESS(BENTYPE=Advice over Telephone,MAJGRP=Active Duty Dependents,
TYPE=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 and Respectful ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);

```

* Create CONUS for Enrollees with Civilian PCM - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Enrollees with Civilian PCM,
TYPE=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 and Respectful ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);

```

* Create CONUS for Enrollees with Military PCM - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Enrollees with Military PCM,
TYPE=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 and Respectful ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);

```

* Create CONUS for Non-enrolled Beneficiaries - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=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 and Respectful ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);

```

```

%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);

```

* Create CONUS for Prime Enrollees - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Prime Enrollees,
TYPE=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 and Respectful ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Prime Enrollees,
TYPE=INDIVIDUAL);

```

* Create CONUS for Retirees and Dependents - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=Retirees and Dependents,
TYPE=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 and Respectful ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);

```

```

%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);

```

* Create CONUS for All Beneficiaries - Individual

*****;

```

%PROCESS(BENTYPE=Advice over Telephone ,MAJGRP=All Beneficiaries,
TYPE=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 and Respectful ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Delays in Care while Awaiting Approval ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You can Understand ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Helpful ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problem with Paperwork ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Necessary Care ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist ,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 Urgent Care ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait More than 15 Minutes Past Appointment ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit ,MAJGRP=All Beneficiaries,
TYPE=INDIVIDUAL);

```



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*****
* 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 Courteous and Helpful Office Staff - Quarterly
*****;
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries , TYPE=COMPOSITE,BENEFIT=Courteous
and Helpful Office Staff);

*****
* 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);

```

```

%MEND;
%CALLIT(TIMEPD=2006);
%CALLIT(TIMEPD=2005);
%CALLIT(TIMEPD=2004);

```

```

*****
* 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 SVMPR04=0 AND SVMPR05=0 AND SVMPR06=0; /*CDR 2/08/2004*/
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.;
  %include "offset.inc";
  %include "l:\2005\programs\loadweb\offset.inc";
  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 = "CONUS_Q";
  FLAG = "CONUS_Q";
  score=score+ascore-bscore;
  IF SIN;
RUN;
PROC SORT DATA=SIGTEST1; BY KEY; 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 SVMPR04 = 1|svmpr05=1|svmpr06=1 THEN OUTPUT MPR;
IF SVMPR04 = 0 & svmpr05 = 0 & svmpr06 = 0 THEN OUTPUT CAHPS;
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;
  %include "offset.inc";
  %include "1:\2005\programs\loadweb\offset.inc";
  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;
PROC SORT DATA=SIGTEST2; 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 2006 DOD Health Survey Scores/Report Cards (6077-410)";
TITLE2 "Program Name: CONUS_Q.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFINL.SD2 - Scores Database in WEB Layout";
TITLE4 "Program Outputs: CONUS_Q.SD2 - CONUS Scores Database in WEB layout";

```

```
PROC FREQ;  
TABLES SIG FLAG SOURCE BENEFIT BENTYPE MAJGRP REGION REGCAT  
        REGION*REGCAT  
        /MISSING LIST;  
RUN;
```

G.15 LOADWEB\TREND_A.SAS - CALCULATE TRENDS FOR CAHPS SCORES - ANNUAL.

```

*****
*
* PROGRAM:   TREND_A.SAS
* TASK:     2005 DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE:  Add TREND records to Scores database.
*
* WRITTEN:  06/28/2000 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.
*
* 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  ".";

*LIBNAME IN   "L:\2005\Programs\Loadweb";
*LIBNAME OUT  "L:\2005\Programs\Loadweb";

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*/

data fakecut(keep=region regcat);
set in.conus_q;
where majgrp='Prime Enrollees' & region ne regcat
  & benefit='Health Plan' & timepd='2006';
if semean>.05|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);
  WHERE TIMEPD IN ('2004','2006');
  *****
  * 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));

  IF (SVMPR04 = 1 or SVMPR05 = 1 or SVMPR06 = 1)
    AND BENEFIT NE 'Healthy Behavior' THEN DELETE;

RUN;

DATA TEMP03;
  SET TRENDS;
  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE ;
  IF TIMEPD = "2004";
RUN;
PROC SORT DATA=TEMP03; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;

DATA TEMP05;
  SET TRENDS;
  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF TIMEPD = "2006";
RUN;
PROC SORT DATA=TEMP05; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;

DATA PAIR0305(keep=majgrp region regcat benefit bentype);
  MERGE TEMP03(IN=IN03) TEMP05(IN=IN05);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF IN03 AND IN05;
RUN;

PROC SORT DATA=TRENDS;
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
RUN;

DATA TRENDS2;
  MERGE TRENDS(IN=INTREND) PAIR0305(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 = '2004' THEN DO;
    SCORE03 = SCORE/100;
    SE03    = SEMEAN;
    N03     = N_OBS;
    W03     = N_WGT;
  END;
  RETAIN SCORE03 SE03 N03 W03;
  IF TIMEPD = '2006' THEN DO;
    SCORE05 = SCORE/100;
    SE05    = SEMEAN;

```



```

        N05      = N_OBS;
        W05      = N_WGT;
    END;
    RETAIN SCORE05 SE05 N05 W05;
    LENGTH KEY $200.;
    IF TIMEPD = '2006' 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(SE03**2+SE05**2);
        N_OBS = MIN(N03,N05);
        N_WGT = MIN(W03,W05);
        SCORE = SCORE05-SCORE03;
        DSCORE = 100*(SCORE05-SCORE03);
        if region='Benchmark' then OUTPUT bench;
        else output trends;
    END;
    DROP ORDER SCORE03 SCORE05 SE03 SE05 N03 N05;
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 "2005 DOD Health Survey Scores/Report Cards (6077-410)";
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.SD2 - Merged Final Scores Database with TRENDS for input to
SIGNIF_A.SAS";

TITLE5 "FREQs of TREND_A.SD2";
PROC FREQ;
  TABLES SOURCE FLAG MAJGRP REGION BENEFIT BENTYPE
  /MISSING LIST;
RUN;

TITLE5 "FREQs of FAKE.SD2";
PROC FREQ DATA=IN.newFAKE;
  TABLES MAJGRP REGION BENEFIT BENTYPE
  /MISSING LIST;
RUN;

```

G.16 LOADWEB\MAKEHTMA.SAS - GENERATE HTML AND XLS FILES FOR TRICARE BENEFICIARY REPORTS - ANNUAL.

```

*=====;
* Programmer: Mark A. Brinkley ;
* Title: MAKEHTMA.SAS ;
* Client: 6077-410 ;
* Date: 02-28-2005 ;
* ;
* Purpose: This program is designed to create ;
* ANNUAL report cards ;
* ;
* ;
* Input files: ??????.SD2 ;
* Output files: HTML\ ;
* 3384*3 F*.HTM Files (Frame version) ;
* 3384 P*.HTM Files (Printer friendly - no frames) ;
* 3384 P*.XLS Files (Excel files) ;
* ----- ;
* 16920 TOTAL files ;
* ;
* ;
* ;
* 00!000!000!000!000!000!000!000!000!000!000!000!000!000! ;
* ;
* IF YOU MODIFY THIS PROGRAM THEN PLEASE INITIAL AND DOCUMENT ;
* YOUR CHANGES. THOSE FAILING TO DO THIS WILL BE SEVERELY ;
* BEATEN. ;
* ;
* 00!000!000!000!000!000!000!000!000!000!000!000!000!000! ;
* ;
* ;
* ;
* Modifications: ;
* 11-01-2000 - JSykes added pieces to create Excel Spreadsheets ;
* 07-01-2001 - MAB modified for qtr 2 ;
* 10-25-2001 - C.Rankin moved link to printer friendly version ;
* from frame, created macro variable to include ;
* third row of subbenefit heading ;
* 11-01-2001 - D.Beahm changed splitpercent to splitpixel and adjusted ;
* the pixel size of the top frame to prevent scrolling ;
* she also added a <BR> before the printer icon to make ;
* sure it appears on it's own line ;
* 12-21-2001 - D.Beahm changed column widths for frame page a so that ;
* the column headers would line up with the data in frame ;
* page b. Also revised Excel code so benchmarks for the ;
* majorgrp are shaded dark red instead of blue ;
* 04-18-2002 - Quarterly report cards will now show a rolling 4 ;
* quarters of data for the trend. DKB updated the period ;
* BENTYPE references to account for this, this will need ;
* to be done each quarter. Also revised footnote ;
* to indicate that this is the 2002 Survey of Health Care ;
* Beneficiaries. This reflects a change from previous ;
* years, the survey year now refers to the processing ;
* year instead of the year for which data was collected. ;
* Also changed image reference from QTR to COL, these ;
* new names for the qtr images reflects the column they ;
* are in instead of the quarter they represent ;
* 06-19-2002 - Mark Brinkley ;
* Updated for Q2_2002 ;
* Changed macro var PERIOD to CURRENTPERIOD ;
* Added macro vars PERIOD1-PERIOD3 ;
* 07-29-2002 - Daniele Beahm ;
* Added links to trend pages. Clicking on the fielding ;
* Period now takes you to the component page for that ;
* period and clicking on the Trend column header now ;
* takes you to the Trend section of the help file ;
* 02-04-2003 - Mike Scott ;
* Changed "Primary Care Manager" to "Personal Doctor" ;
* 02-10-2003 - Mike Scott ;
* Inserted LENGTH HREF $ 250 statements before ;
* href = "string" statements so that href wouldn't be ;
* set by default ;

```

```

* 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 ;
* ;
* NOTE: Update only SRCYR1, SRCYR2, PERIOD1/2/3, and CURRENTPERIOD. ;
*=====;

```

```

OPTIONS COMPRESS=YES;

```

```

%LET SRCYR1 = 2005; *** Previous year;

```

```

%LET SRCYR2 = 2006;    *** Current year;

%LET PERIOD1=2004;
%LET PERIOD2=2005;
%LET CURRENTPERIOD = 2006;
%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 OUTDIR = L:\2005\PROGRAMS\LOADWEB\TEST;*
%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();
  %if &var3. =7 or &var3. = 8 or &var3. = 9 or &var3. = 10 or
    (&sepage. = 2 and &var3. ne 12 and &var4. ne 0 and
     &var4. ne 3) %then %do;    ***MJS 4/23/03 Changed 8 to 7;
    PUT "<tr>";
    PUT "    <td colspan='&columns.'><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Source:
Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2.</font>";    ***MJS
03/24/04 C
    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>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
    PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";

    PUT "</td></tr>";
  %end;
  %else %if (&var3.=12 and (&var4.=3 or &var4.=0) and &sepage.=2) %then %do; /* 08/04/04 - RSG -
CREATE FOOTNOTE FOR TREND PAGES THAT WAS MODIFIED*/
    PUT "<tr>";
    PUT "    <td colspan='&columns.'><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Source:
Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2.</font>";    ***MJS
03/24/04 C
    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>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
    PUT "    <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
  %end;

```

```

        PUT "</td></tr>";
    %end;
    %else %do;
        PUT "<tr>";
        PUT "      <td colspan='&columns.'"><font face='Arial,Helvetica,Swiss,Geneva' size='2'>Source:
&SRCYR2 Health Care Survey of DOD Beneficiaries</font>";      ***MJS 03/24/04 Changed hard-coded year
to m
        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>";
        PUT "      <font face='Arial,Helvetica,Swiss,Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
        PUT "      <center><a href='&hrefxls.'"><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
    %end;

```

```
%MEND 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 V612 '.' 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 *****/
/***** sepage=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_A(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 ***/

```

```

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 = "Standard/Extra Users" THEN LINEUP=4;
ELSE IF MAJGRP = "Active Duty" THEN LINEUP=5;
ELSE IF MAJGRP = "Active Duty Dependents" THEN LINEUP=6;
ELSE IF MAJGRP = "Retirees and Dependents" THEN LINEUP=7;
ELSE IF MAJGRP = "All Users" THEN LINEUP=8;

IF REGION = "Benchmark" THEN LINEUP2=1;
ELSE IF UPCASE(REGION) = 'CONUS MHS' THEN LINEUP2=2;
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,sepage,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.=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(Active Duty);
%if &var1.=6 %then %let major=%STR(Active Duty Dependents);
%if &var1.=7 %then %let major=%STR(Retirees and Dependents);
%if &var1.=8 %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('Problems Getting Personal Doctor/Nurse');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Problems Getting to See Specialist');
        %end;
        %else %if &var4. = 3 %then %do;
            %LET BEN_TYPE = %STR('Problems Getting Necessary Care');
        %end;
        %else %if &var4. = 4 %then %do;
            %LET BEN_TYPE = %STR('Delays in Care while Awaiting Approval');
        %end;
    %end;
    %else %if &var3. = 2 %then %do;
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Advice over Telephone');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Wait for Routine Visit');
        %end;
        %else %if &var4. = 3 %then %do;
            %LET BEN_TYPE = %STR('Wait for Urgent Care');
        %end;
        %else %if &var4. = 4 %then %do;
            %LET BEN_TYPE = %STR('Wait in Doctor's Office');
        %end;
    %end;
    %else %if &var3. = 3 %then %do;
        %if &var4. = 1 %then %do;
            %LET BEN_TYPE = %STR('Courteous and Respectful');
        %end;
        %else %if &var4. = 2 %then %do;
            %LET BEN_TYPE = %STR('Helpful');
        %end;
    %end;
    %else %if &var3. = 4 %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;
    %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. = 5 %then %do;
    %if &var4. = 1 %then %do;
        %LET BEN_TYPE = %STR('Problem Finding/Understanding Written Material');
    %end;
    %else %if &var4. = 2 %then %do;
```



```

        %LET BEN_TYPE = %STR('Problem Getting Help from Customer Service');
    %end;
    %else %if &var4. = 3 %then %do;
        %LET BEN_TYPE = %STR('Problem with Paperwork');
    %end;
%end;
%else %if &var3. = 6 %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;
%else %if &var3. = 11 %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;
%else %if &var3. = 12 %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;
%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 &sepage.=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;
TEMPLATE=COMPRESS("Templates\Template&var3..xls");
%end;
%else %if (&var3.=12 and &var4.=0 and &seppage.=2) %then %do;
    TEMPLATE=COMPRESS("Templates\Template_trend2.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=7 or &var3=8 or &var3=9 or &var3=10 %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)="CONUS MHS" ;
    %let sub_regs=%STR(CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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);
%end;
%else %if &var2.=12 %then %do;
  IF UPCASE(REGION)="SOUTH ARMY" or REGION="Benchmark" or REGION = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 = "CONUS 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 **/
        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(5+&qtrs.);
    %end;
%else %if &var3.=2 %then %do;
    IF BENEFIT="Getting Care Quickly";
    %let columns=%EVAL(5+&qtrs.);
%end;
%else %if &var3.=3 %then %do;
    IF BENEFIT="Courteous and Helpful Office Staff";
    %let columns=%EVAL(3+&qtrs.);
%end;
%else %if &var3.=4 %then %do;
    IF BENEFIT="How Well Doctors Communicate";
    %let columns=%EVAL(5+&qtrs.);
%end;
%else %if &var3.=5 %then %do;
    IF BENEFIT="Customer Service";
    %let columns=%EVAL(4+&qtrs.);
%end;
%else %if &var3.=6 %then %do;
    IF BENEFIT="Claims Processing";
    %let columns=%EVAL(3+&qtrs.);
%end;
%else %if &var3.=7 %then %do;
    IF BENEFIT="Health Plan";
    %let columns=%EVAL(2+&qtrs.);
%end;
%else %if &var3.=8 %then %do;
    IF BENEFIT="Health Care";
    %let columns=%EVAL(2+&qtrs.);
%end;
%else %if &var3.=9 %then %do;
    IF BENEFIT="Personal Doctor";
    %let columns=%EVAL(2+&qtrs.);
%end;
%else %if &var3.=10 %then %do;
    IF BENEFIT="Specialty Care";
    %let columns=%EVAL(2+&qtrs.);

```

```

%end;
%else %if &var3.=11 %then %do;
  IF BENEFIT="Preventive Care";
  %let columns=%EVAL(5+&qtrs.);
%end;
%else %if &var3.=12 %then %do;
  IF BENEFIT="Healthy Behavior";
  %let columns=%EVAL(4+&qtrs.);
%end;

/**** Set macro variable ****/
%if &var3.=0 %then %do;
  %let sub_ben=%STR(&currentperiod. Composite Scores);
  %let columns=13;
%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 **/

  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 BENEFIT="Courteous and Helpful Office Staff" AND
    BENTYPE="Composite" THEN WIDTH3=70;

  %if &var3.=0 %then %do;
    WIDTH_COL1=.;
    WIDTH3=40;
  %end;

  %if &prefix.=p %then %do;
    WIDTH3=.;
  %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.8-0-0-0.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;

/** U U FRAMES SECTION U U */
%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.=3 OR &var3.=6 OR &var3.=12 %then %do;
        %let splitpixel=181;
    %end;
    %else %if &var3.=4 %then %do;
        %let splitpixel=196;
    %end;
    %else %if &var3.=5 %then %do;
        %let splitpixel=221;
    %end;
    %else %if &var3.=7 OR &var3.=8 OR &var3.=9 OR &var3.=10 %then %do;
        %let splitpixel=158;
    %end;
    %else %if &var3.=11 %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;

```



```

        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. &htmlsp.";
        PUT "          <a href='../html\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
        PUT "          </td>";
        PUT "</tr>";

        PUT "<tr>";
        PUT "          <td valign='center' align='center' colspan='13' 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 **/
        /** ÔÔ FRAMES SECTION ÔÔ **/

        /***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=40 colspan=1><IMG SRC='&imgdir.\dummy.gif' ALT='Total Score'
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=4><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=2><IMG SRC='&imgdir.\healthy.gif' ALT='Healthy Behavior'
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=4><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 Behavior</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>";
            %end;
            %else %do;
            PUT "<td width='7%'><font face='&fontface.'>&htmlsp.</font></td>";
            %end;

```



```

    /** 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\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. &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>";

    /*** If ratings then don't display reference period ***/
    %if &var3.=7 OR &var3.=8 OR &var3.=9 OR &var3.=10 %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 ***/
        /** UÛ FRAMES SECTION UÛ ***/
        %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;

    /*** 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;

    /*-----*/
    /* 2000/11: begin xls code */
    /*-----*/
    %if &outxls.=1 %then %do;
        FILE XLSTITLE;
        PUT "&major. &comma. &sub_regs.";
        PUT "%cpress('&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#g&var3.");
    HREF1=COMPRESS("../html\help.htm#trend");

    /*** 4th Row (columns 2+) ***/
    /*** If quarter column then HREF link is different *****/
    /*** ÔÔ FRAMES SECTION ÔÔ ***/

    %if &prefix=f %then %do;
        %if &var3. = 12 and (&var4. = 0 or &var4. = 3) and &seppage. = 2 %then %do;
            IF _N_>&subcols. AND
                _N_ = 1 OR _N_ = 4 THEN IMAGE=COMPRESS("&imgdir.\col"||_N_-&subcols.||"_r"||".gif");
            ELSE IMAGE=COMPRESS("&imgdir.\col"||_N_-&subcols.||".gif");
        %end;
    %else %do;
        IF _N_>&subcols. THEN IMAGE=COMPRESS("&imgdir.\col"||_N_-&subcols.||".gif");
        ELSE IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
    %end;

    /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE */
    IF TIMEPD NE "TREND" AND 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 PUT "<td align='center' valign='bottom'><a href="" HREF1 +(-1) "" &target.><IMG SRC=""
IMAGE "" alt="" TIMEPD "" BORDER=0></a></td>";
    %end;
    %else %do;
        /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE */

```



```

        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 ***/
        /** 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.'>";
        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**/

        /*-----*/

```



```

                IF BENTYPE = "Problems Getting Personal Doctor/Nurse";
            %end;
        %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Problems Getting to See Specialist";
        %end;
        %else %if &var4. = 3 %then %do;
            IF BENTYPE = "Problems Getting Necessary Care";
        %end;
        %else %if &var4. = 4 %then %do;
            IF BENTYPE = "Delays in Care while Awaiting Approval";
        %end;
    %end;
%else %if &var3. = 2 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Advice over Telephone";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Wait for Routine Visit";
    %end;
    %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Wait for Urgent Care";
    %end;
    %else %if &var4. = 4 %then %do;
        IF BENTYPE = "Wait in Doctor's Office";
    %end;
%end;
%else %if &var3. = 3 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Courteous and Respectful";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Helpful";
    %end;
%end;
%else %if &var3. = 4 %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. = 5 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Problem Finding/Understanding Written Material";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Problem Getting Help from Customer Service";
    %end;
    %else %if &var4. = 3 %then %do;
        IF BENTYPE = "Problem with Paperwork";
    %end;
%end;
%else %if &var3. = 6 %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. = 11 %then %do;
    %if &var4. = 1 %then %do;
        IF BENTYPE = "Mammography";
    %end;
    %else %if &var4. = 2 %then %do;
        IF BENTYPE = "Pap Smear";
    %end;
%end;

```

```

        %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. = 12 %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&uniq.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 "%cnpres('&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*/

*****;

/** 4th Row (columns 2+) ***/
/** If quarter column then HREF link is different ****/
/** ÔÔ FRAMES SECTION ÔÔ ***/

%if &prefix=f %then %do;
  %if &var3. = 12 and (&var4. = 0 or &var4. = 3) and &seppage. = 2 %then %do;
    IF _N_ = 1 OR _N_ = 4 THEN IMAGE=COMPRESS("&imgdir.\col"||_N_"|_|_r"||".gif"); *RSG
02/2006 - USE ALTERNATIVE COL HEADING FOR NOTE;
    ELSE IMAGE=COMPRESS("&imgdir.\col"||_N_"|_|".gif");
  %end;
  %else %do;
    IMAGE=COMPRESS("&imgdir.\col"||_N_"|_|".gif");
  %end;

  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=HREFf5;
  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=HREFf5;
  /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE*/

  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>";
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.=7 OR &var3.=8 OR &var3.=9 OR &var3.=10 %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="Active Duty" THEN MAJNUM=5;
  IF MAJGRP="Active Duty Dependents" THEN MAJNUM=6;
  IF MAJGRP="Retirees and Dependents" THEN MAJNUM=7;
  IF MAJGRP="All Users" THEN MAJNUM=8;

  /*** HREF link to another page ***/

```

```
  HREF=COMPRESS("../html\&prefix."||MAJNUM||"-0-&var3.-&var4.&q.htm");  /** Link is diff for CONUS
MHS region **/
```

```
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 12;
    %if &i.^=7 AND &i.^=8 AND &i.^=9 AND &i.^=10 %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 **/
/** ÔÔ FRAMES SECTION ÔÔ **/
%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;
    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;
        %if (&var3.=12 and (&var4=0 or &var4.=3) and &seppage.=2) %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries";  ***MJS 03/24/04 Changed
hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            PUT "**** Indicates suppressed due to small sample size";
        %end;
        %else %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            PUT "**** Indicates suppressed due to small sample size";
        %end;
    %end;

    /*-----*/
    /* 2000/11: end xls code */
    /*-----*/

END;
RUN;
%end;

/*ÛÛÛ All Regions ÛÛÛ*/
%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 &sepage.=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 12;    ***RSG 02/2005 changed 11 to 12 since we now have 12 benefits;
        %if &i.^=7 AND &i.^=8 AND &i.^=9 AND &i.^=10 %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 ***/
    /*** ÔÛ FRAMES SECTION ÔÛ ***/
    %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 **/

        /*** Column 1 / Row 2+ ***/
        %if &prefix=f %then %do;
            %if &var1.=3 or &var1.=4 or &var1.=6 or &var1.=7 %then %do;
                IF MOD(ROW,2)=0 THEN PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'> " REGCAT " </font></td>";
            %end;
        %end;
    %end;

```

```

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="CONUS 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;
%else %do;
  %if &var1.=3 or &var1.=4 or &var1.=6 or &var1.=7 %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="CONUS 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;
  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 @@;
  END;
END;

```

```

        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;
        %if (&var3.=12 and (&var4.=0 or &var4.=3) and &sepage.=2) %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries";    ***MJS 03/24/04 Changed
hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            PUT "*** Indicates suppressed due to small sample size";
        %end;
        %else %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
***MJS 03/24/04 Changed hard-coded year to macro variable;
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates not applicable";
            PUT "*** Indicates suppressed due to small sample size";
        %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,1,5) = "CONUS" 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 *****/
/*****
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;
/*-----*/
/* 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;
  %if (&var3.=12 and (&var4.=0 or &var4.=3) and &sepage.=2) %then %do;
    FILE XLSDATA;
    PUT; PUT;
    PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04 Changed
hard-coded year to macro variable;
    PUT "Indicates score significantly exceeds benchmark";
    PUT "Indicates score significantly falls short of benchmark";
    PUT "NA Indicates not applicable";
    PUT "**** Indicates suppressed due to small sample size";
  %end;
  %else %do;
    FILE XLSDATA;
    PUT; PUT;
    PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and &SRCYR2";
    ***MJS 03/24/04 Changed hard-coded year to macro variable;
    PUT "Indicates score significantly exceeds benchmark";
  %end;
%end;
/*-----*/

```

```

        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates not applicable";
    %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.8-0-0-0.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.";
    PUT "                /** 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");    ***MJS 05/04/03 Removed Civilian
PCM;
    majgrp4=COMPRESS("&prefix.4-&var2.-&var3.-&var4.&q..htm");    ***(majgrp3), and changed 4-8 to
3-7;
    majgrp5=COMPRESS("&prefix.5-&var2.-&var3.-&var4.&q..htm");
    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");    /**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.^=6 and &var1.^=7 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="" MAJGRP5 +(-1) "" &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
        PUT "<a href="" MAJGRP8 +(-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 "<br>";
                PUT "<a href="" MAJGRP5 +(-1) "" &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
                PUT "<a href="" MAJGRP6 +(-1) "" &target.><font face='&fontface.' size='2'>Active Duty
Dependents</font></a>&htmlsp.&htmlsp.";
                PUT "<a href="" MAJGRP7 +(-1) "" &target.><font face='&fontface.' size='2'>Retirees and
Dependents</font></a>&htmlsp.&htmlsp.";
                PUT "<a href="" MAJGRP8 +(-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;
                HREFFP=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q.htm");
                PUT "        <BR><font face='Arial,Helvetica,Swiss,Geneva' size='1'><a href="" HREFFP ""
&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,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,False,10)]'; /** BOLD &
GREEN ***/
        ELSE IF SIG=-1 THEN PUT '[FORMAT.FONT("Arial",10,False,True,False,False,3)]'; /** RED
***/
        ELSE PUT '[FORMAT.FONT("Arial",10,False,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,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,False,3)]'; /** RED ***/
    END;

RUN;
FILENAME CMDS DDE 'excel|system';
DATA _NULL_;
    FILE CMDS;
    PUT '[SAVE()]';
    PUT '[CLOSE()]';
RUN;
%end;
/*-----*/
/* 2000/12: end xls color code */
/*-----*/

```



```

%LET PREFIX=f;
%LET OUTXLS=0;
*%DOALL1;
%DOALL2;
*%DOALL4(I=1);
*%DOALL4(I=2);
*%DOALL4(I=5);
*%DOALL4(I=8);
*%DOALL5(I=1);
*%DOALL5(I=2);
*%DOALL5(I=5);
*%DOALL5(I=8);

/**** 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=5);
%DOALL4(I=8);
*%DOALL5(I=1);
*%DOALL5(I=2);
*%DOALL5(I=5);
*%DOALL5(I=8);
*/
/**** Run macro to create Excel files ONLY ****/

%LET PREFIX=p;
%LET OUTXLS=1;
*%DOALL1;
%DOALL2;
*%DOALL4(I=1);
*%DOALL4(I=2);
*%DOALL4(I=5);
*%DOALL4(I=8);
*%DOALL5(I=1);
*%DOALL5(I=2);
*%DOALL5(I=5);
*%DOALL5(I=8);

%PUT "&number_html_files. HTML files created.";

```

APPENDIX H

SAS CODE FOR TRICARE CONSUMER WATCH – QUARTERS I-IV

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H.1 CONSUMERWATCH\CONSUMERWATCH-CMACRO.INC - PRODUCE NUMBERS FOR ANNUAL CONSUMER WATCH REPORTS.

```

*****
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-C.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.
*
* INPUT   : ..\..\..\YEAR.\PROGRAMS\LOADWEB\TREND_A.SD2
* 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 */
%LET VAL = &AREA.;

x "COPY TEMPLATE.XLS &FOLDER.\&NAME.";
X "START &FOLDER.\&NAME.";

DATA _NULL_;
  X=SLEEP(3);
RUN;

*****
* FIGURE 1: Health Care Rating
*****;
TITLE2 'Figure 1: Health Care Rating';
PROC FREQ DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
        AND REGCAT in ("&VAL","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 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 ("&VAL","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 comparison, 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 ("&VAL","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 ("&VAL", "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;
END;

```

```

ELSE IF TIMEPD = "&YEAR1." 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 ("%VAL","Benchmark")
    AND BENEFIT IN ('Getting Needed Care','Getting Care Quickly')
    AND BENTYPE='Composite' & TIMEPD IN ("%YEAR2.", "%YEAR1.", "%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 comparison, LLu 4/6/2006*/
DATA CFG5;
  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 ("&VAL","Benchmark")
AND BENEFIT IN ('Courteous and Helpful Office Staff','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 ('Courteous and Helpful Office Staff','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 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 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 = 'Courteous and Helpful Office Staff' AND REGCAT NE 'Benchmark') THEN OUTPUT COL2
COL6;
  IF (BENEFIT = 'Courteous and Helpful Office Staff' AND REGCAT = 'Benchmark') THEN OUTPUT COL3;
  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=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 FIG6A;

```

```

MERGE COL2 COL6;
BY ROW;
RUN;

DATA FIG6B;
MERGE COL4 COL7;
BY ROW;
RUN;

DATA FIG6AB;
SET FIG6A FIG6B;
BY ROW;
RUN;

DATA FIG6;
MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 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 COL2;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C9:R18C9";

DATA _NULL_;
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL3;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C10:R21C10";

DATA _NULL_;
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL4;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R18C11:R18C11";

DATA _NULL_;
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL5;
RUN;

FILENAME TBL DDE "EXCEL|COMPOSITES!R23C8:R26C10";

DATA _NULL_;
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL6 '09'X '09'X 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 ("&VAL", "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 comparison, 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 = "&VAL"
    AND TIMEPD = "&YEAR"
    AND BENEFIT IN ('Preventive Care','Healthy Behavior')
    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 Behavior')
    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 = "&VAL"
    AND TIMEPD = "&YEARP1"
    AND BENEFIT IN ('Preventive Care','Healthy Behavior')
    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 = "&VAL"
    AND TIMEPD = "&YEARP2"
    AND BENEFIT IN ('Preventive Care','Healthy Behavior')
    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;

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;

```

```

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;
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 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;
*TITLE2 'TABLE 1';
*PROC PRINT;
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;

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.2.A CONSUMERWATCH\CONSUMERWATCH-CCONUS.SAS - RUN ANNUAL MTF TRICARE CONSUMER WATCH REPORTS FOR CONUS.

```
*****
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-Cconus.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: 11/21/06 BY LUCY LU.
*
*****;
OPTIONS PS=63 LS=86 NOCENTER MPRINT NOFMterr SPOOL ;

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR   = 2006;
%LET YEarp1 = 2005;
%LET YEarp2 = 2004;

%INCLUDE 'CATREP.INC';

LIBNAME LIBRARY '..\..\..\2006\Data\fmtlib';
LIBNAME INT V612 '..\..\..\2006\programs\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='CONUS 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;
    *IF REGCAT IN ('AIR FORCE','ARMY','NAVY','NORTH','OTHER',
                  'OVERSEAS','SOUTH','WEST','BENCHMARK')

    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="CONUS MHS",FOLDER=CONUSMHS);

```


H.2.B CONSUMERWATCH\CONSUMERWATCH-CNORTH.SAS - RUN ANNUAL MTF TRICARE CONSUMER WATCH REPORTS FOR NORTH REGION.

```

OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 NOCENTER SOURCE2 NOFMTERR SPOOL;
*****
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-CMACRO.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: 02/01/06 BY LUCY LU.
* UPDATED: 11/22/06 BY LUCY LU.
*
*****;
options mprint;

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR = 2006;
%LET YEARP1 = 2005;
%LET YEARP2 = 2004;

%INCLUDE 'CATREP.INC';

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT V612 '..\loadweb';
*LIBNAME IN '..';

/*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='CONUS 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="North Air Force",FOLDER=North);
%RUNBYREG(REG="North Army",FOLDER=North);
%RUNBYREG(REG="North Navy",FOLDER=North);
%RUNBYREG(REG="North Other",FOLDER=North);

```

H2.C CONSUMERWATCH\CONSUMERWATCH-COVERSEAS.SAS - RUN ANNUAL MTF TRICARE CONSUMER WATCH REPORTS FOR OVERSEAS REGION.

```

*****
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-CMACRO.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: 02/01/06 BY LUCY LU.
* UPDATED: 11/21/06 BY LUCY LU FOR 2006 CONSUMER WATCH.
*
*****;
options mlogic PS=63 LS=200 NOCENTER NOFMterr SPOOL;

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR   = 2006;
%LET YEarp1 = 2005;
%LET YEarp2 = 2004;

%INCLUDE 'CATREP.INC';

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT V612 '..\loadweb';
LIBNAME IN    '.';

/*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='CONUS 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="Overseas Europe",FOLDER=Overseas);
%RUNBYREG(REG="Overseas Latin America",FOLDER=Overseas);
%RUNBYREG(REG="Overseas Pacific",FOLDER=Overseas);

```

H.2.D CONSUMERWATCH\CONSUMERWATCH-CSOUTH.SAS - RUN ANNUAL MTF TRICARE CONSUMER WATCH REPORTS FOR SOUTH REGION.

```
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 NOCENTER NOFMterr SPOOL;
*****
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-CMACRO.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: 02/01/05 BY LUCY LU.
* UPDATED: 11/21/06 BY LUCY LU FOR 2006 CONSUMER WATCH.
*
*****;
options mprint;

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR   = 2006;
%LET YEARP1 = 2005;
%LET YEARP2 = 2004;

%INCLUDE 'CATREP.INC';

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT V612 '..\loadweb';
LIBNAME IN    '..';

/*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='CONUS 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;
  *IF REGCAT IN ('AIR FORCE','ARMY','NAVY','NORTH','OTHER',
                'OVERSEAS','SOUTH','WEST','BENCHMARK')

  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="South Air Force",FOLDER=South);
%RUNBYREG(REG="South Army",FOLDER=South);
%RUNBYREG(REG="South Navy",FOLDER=South);
%RUNBYREG(REG="South Other",FOLDER=South);

```

H.2.E CONSUMERWATCH\CONSUMERWATCH-CWEST.SAS - RUN ANNUAL MTF TRICARE CONSUMER WATCH REPORTS FOR WEST REGION.

```

OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 NOCENTER SOURCE2 NOFMterr SPOOL;
*****
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-CMACRO.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.
*****;
options mprint;

/*****/
/* TIME PERIOD MACROS */
/*****/

%LET YEAR = 2006;
%LET YEarp1 = 2005;
%LET YEarp2 = 2004;

%INCLUDE 'CATREP.INC';

LIBNAME LIBRARY '..\..\Data\fmtlib';
LIBNAME INT V612 '..\loadweb';
LIBNAME IN '.';

/*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='CONUS 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="West Air Force",FOLDER=West);
%RUNBYREG(REG="West Army",FOLDER=West);
%RUNBYREG(REG="West Navy",FOLDER=West);
%RUNBYREG(REG="West Other",FOLDER=West);

```


H.3.A Q4FY2006\PROGRAMS\CONSUMERWATCH\CONSUMERWATCH-CONUS.SAS - RUN CONUS TRICARE CONSUMER WATCH REPORTS - QUARTERLY.

```

*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-CONUS.SAS
* PURPOSE: CALL CONSUMERWATCH MACRO PROGRAM
*          TO PRODUCE EXCEL TABLE FOR CONUS DATA.
*
* 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.
*
*
* INPUT  : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\LOADWEB\CONUS_Q.SD2
*
* OUTPUT : INTO EXCEL SPREADSHEET
*
* PROGRAM TO CALL: CONSUMERWATCH-MACRO.INC
*****;

/*****/
/* UPDATE REGIONAL LIBNAMES */
/*****/

/* LIBNAMES for Regional Consumer Watch */
LIBNAME CURNTR '..\LOADWEB';

LIBNAME IN    '.';

/*****/
/* TIME PERIOD MACROS: UPDATE EACH QUARTER */
/*****/

*starting 2006, the period is changed to fiscal year, LLU 4/5/06;

%LET CURRNT   = 'July, 2006';
%let CURRNTQ  = Q4;

%LET PREV1    = 'April, 2006';
%LET PREV1Q   = Q3;

%LET PREV2    = 'January, 2006';
%LET PREV2Q   = Q2;

%LET PREV3    = 'October, 2005';
%LET PREV3Q   = Q1;

TITLE "6077-420 DOD CONSUMER WATCH &CURRNTQ FY 2006";

%INCLUDE "CONSUMERWATCH-MACRO.INC";

%RUNCW(AREA=CONUS MHS,
       FOLDER=CONUSMHS,
       CURRENT=CURNTR.TOTAL_Q);

```

H.3.B Q4FY2006\PROGRAMS\CONSUMERWATCH\CONSUMERWATCH-R.SAS - RUN REGIONAL TRICARE CONSUMER WATCH REPORTS - QUARTERLY.

```

*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-R.SAS
* PURPOSE: CALL CONSUMERWATCH MACRO PROGRAM
*          TO PRODUCE EXCEL TABLE FOR REGIONS.
*
* WRITTEN: 02/10/2005 BY LUCY LU FOR Q4 2004 DATA.
*
* UPDATE:  4/26/2005 FOR Q1 2005.
* UPDATE:  8/4/2005 FOR Q2 2005.
* UPDATE: 12/15/05 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: 08/31/2006 FOR Q3 FISCAL YEAR 2006, LUCY Lu. REGIONAL CHANGE TO
*          OVERSEAS EUROPE AND OVERSEAS PACIFIC.
*
* INPUT  : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\LOADWEB\CONUS_Q.SD2
*
* OUTPUT : INTO EXCEL SPREADSHEET
*
* PROGRAM TO CALL: CONSUMERWATCH-MACRO.INC
*****;

/*****/
/* UPDATE REGIONAL LIBNAMES */
/*****/

/* LIBNAMES for Regional Consumer Watch */
LIBNAME CURNTR '..\LOADWEB';

LIBNAME IN    '.';

/*****/
/* TIME PERIOD MACROS: UPDATE EACH QUARTER */
/*****/

*starting 2006, the period is changed to fiscal year, LLU 4/5/06;

%LET CURRNT   = 'July, 2006';
%let CURRNTQ  = Q4;

%LET PREV1    = 'April, 2006';
%LET PREV1Q   = Q3;

%LET PREV2    = 'January, 2006';
%LET PREV2Q   = Q2;

%LET PREV3    = 'October, 2005';
%LET PREV3Q   = Q1;

TITLE "6077-420 DOD CONSUMER WATCH &CURRNTQ FY 2006";

%INCLUDE "CONSUMERWATCH-MACRO.INC"/SOURCE2;

%RUNCW(AREA=NORTH,
        FOLDER=North,
        CURRENT=CURNTR.TOTAL_Q);
%RUNCW(AREA=SOUTH,
        FOLDER=South,

```

```
        CURRENT=CURNTR.TOTAL_Q);  
%RUNCW(AREA=WEST,  
        FOLDER=West,  
        CURRENT=CURNTR.TOTAL_Q);  
%RUNCW(AREA=Overseas Europe,  
        FOLDER=Europe,  
        CURRENT=CURNTR.TOTAL_Q);  
%RUNCW(AREA=Overseas Pacific,  
        FOLDER=Pacific,  
        CURRENT=CURNTR.TOTAL_Q);
```

**H.3.C Q4FY2006\PROGRAMS\CONSUMERWATCH\CONSUMERWATCH-S.SAS - RUN SERVICE AFFILIATION TRICARE
CONSUMER WATCH REPORTS - QUARTERLY.**

```
*****
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-S.SAS
* PURPOSE: CALL CONSUMERWATCH MACRO PROGRAM
*          TO PRODUCE EXCEL TABLE FOR SERVICE AFFILIATION.
*
* WRITTEN: 02/10/2005 BY LUCY LU FOR Q4 2004 DATA.
*
* UPDATE: 4/26/2005 FOR Q1 2005.
* UPDATE: 8/4/2005 FOR Q2 2005.
* UPDATE: 12/15/05 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 FOR Q3 FISCAL YEAR 2006, LUCY Lu.
*
* INPUT  : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\LOADWEB\CONUS_Q.SD2
*
* OUTPUT : INTO EXCEL SPREADSHEET
*
* PROGRAM TO CALL: CONSUMERWATCH-MACRO.INC
*****;
```

```
LIBNAME CURNTR '..\LOADWEB';
```

```
LIBNAME IN    '..';
```

```
/*
/*****
/* TIME PERIOD MACROS: UPDATE EACH QUARTER */
/*****
/
```

```
*starting 2006, the period is changed to fiscal year, LLU 4/5/06;
```

```
%LET CURRNT = 'July, 2006';
%let CURRNTQ = Q4;
```

```
%LET PREV1 = 'April, 2006';
%LET PREV1Q = Q3;
```

```
%LET PREV2 = 'January, 2006';
%LET PREV2Q = Q2;
```

```
%LET PREV3 = 'October, 2005';
%LET PREV3Q = Q1;
```

```
TITLE "6077-420 DOD CONSUMER WATCH &CURRNTQ FY 2006";
```

```
%INCLUDE "CONSUMERWATCH-MACRO.INC";
```

```
%RUNCW(AREA=NAVY,
        FOLDER=Navy,
        CURRENT=CURNTR.TOTAL_Q);
%RUNCW(AREA=AIR FORCE,
        FOLDER=AirForce,
        CURRENT=CURNTR.TOTAL_Q);
%RUNCW(AREA=ARMY,
        FOLDER=Army,
        CURRENT=CURNTR.TOTAL_Q);
```

H.4 Q4FY2006\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 XTNEXRREG.
* 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.
*
* INPUT   : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\LOADWEB\CONUS_Q.SD2
*           INTENT TO DISENROLL: DISENRL.SD2
* OUTPUT  : INTO EXCEL SPREADSHEET
*****;
```

OPTIONS PS=60 LS=120 ERRORS=2 NOCENTER NOFMTRR NOXWAIT SPOOL MPRINT;

```
%MACRO RUNCW (AREA=,           /* Region/Service/conus           */
              FOLDER=,        /* Folder containing excel template */
              CURRENT=,       /* Libname and dataset for the current quarter */
              );
```

```
/* Change parameter for each area */
%LET VAL = &AREA.;
```

```
x "COPY TEMPLATE.XLS &FOLDER.\&FOLDER..XLS";
DATA _NULL_;
  X=SLEEP(3);
RUN;
```

```
X "START &FOLDER.\&FOLDER..XLS";
DATA _NULL_;
  X=SLEEP(3);
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
*/
                QUARTER=      /* Data is processed for current quarter and each of 3 previous
quarters */
                );
DATA FIG&FIGURE&QUARTER FIGB&QUARTER(KEEP=SCORE);
    SET FIG&FIGURE&QUARTER;
    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;
    SCORE=SCORE-RSCORE;
RUN;
%MEND NEWSCORE;

%MACRO COMBDATA (FIGURE=      /* Figure number in consumer watch reports */
                );
DATA FIG&FIGURE(DROP=BSCORE);
    SET BENCH FIG&FIGURE.Q1 FIG&FIGURE.Q4 FIG&FIGURE.Q3 FIG&FIGURE.Q2;
    RETAIN BSCORE;
    IF REGION = 'Benchmark' THEN DO;
        ROW = 3;
        BSCORE=SCORE;
    END;
    ELSE IF TIMEPD = &PREV3 THEN DO;
        ROW = 4;
        SCORE=SCORE+BSCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
    END;
    ELSE IF TIMEPD = &PREV2 THEN DO;
        ROW = 5;
        SCORE=SCORE+BSCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
    END;
    ELSE IF TIMEPD = &PREV1 THEN DO;
        ROW = 6;
        SCORE=SCORE+BSCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
    END;
    ELSE IF TIMEPD = &CURRNT THEN DO;
        ROW=7;
        SCORE=SCORE+BSCORE;

```

```

END;
COL2 = SCORE / 100;
COL3 = SIG;
RUN;
PROC SORT;
  BY ROW;
RUN;
%MEND COMBDATA;

*****
* 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=&CURRNT,
  OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
  MAJGRP='Prime Enrollees',
  REGION=("&VAL", 'Benchmark'),
  REGCAT=("&VAL", 'Benchmark'),
  BENEFIT=('Health Care'),
  BENTYPE=('Composite'),
  TIMEPD=&CURRNT,
  OUTDATA=FIG1&CURRNTQ);
%GETDATA (DATASET=&CURRENT,
  MAJGRP='Prime Enrollees',
  REGION=("&VAL", 'Benchmark'),
  REGCAT=("&VAL", 'Benchmark'),
  BENEFIT=('Health Care'),
  BENTYPE=('Composite'),
  TIMEPD=&PREV1,
  OUTDATA=FIG1&PREV1Q);
%GETDATA (DATASET=&CURRENT,
  MAJGRP='Prime Enrollees',
  REGION=("&VAL", 'Benchmark'),
  REGCAT=("&VAL", 'Benchmark'),
  BENEFIT=('Health Care'),
  BENTYPE=('Composite'),
  TIMEPD=&PREV2,
  OUTDATA=FIG1&PREV2Q);
%GETDATA (DATASET=&CURRENT,
  MAJGRP='Prime Enrollees',
  REGION=("&VAL", 'Benchmark'),
  REGCAT=("&VAL", 'Benchmark'),
  BENEFIT=('Health Care'),
  BENTYPE=('Composite'),
  TIMEPD=&PREV3,
  OUTDATA=FIG1&PREV3Q);

%NEWSCORE (FIGURE=1,
  QUARTER=&CURRNTQ);
%NEWSCORE (FIGURE=1,
  QUARTER=&PREV1Q);
%NEWSCORE (FIGURE=1,
  QUARTER=&PREV2Q);
%NEWSCORE (FIGURE=1,
  QUARTER=&PREV3Q);

%COMBDATA (FIGURE=1);

*****
* DDE LINK
*****;
FILENAME TBL DDE "EXCEL|RATINGS!R18C2:R22C3";

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';
```

```
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=('Benchmark'),
          REGCAT=('Benchmark'),
          BENEFIT=('Health Plan'),
          BENTYPE=('Composite'),
          TIMEPD=&CURRNT,
          OUTDATA=BENCH);
```

```
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=("&VAL", 'Benchmark'),
          REGCAT=("&VAL", 'Benchmark'),
          BENEFIT=('Health Plan'),
          BENTYPE=('Composite'),
          TIMEPD=&CURRNT,
          OUTDATA=FIG2&CURRNTQ);
```

```
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=("&VAL", 'Benchmark'),
          REGCAT=("&VAL", 'Benchmark'),
          BENEFIT=('Health Plan'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV1,
          OUTDATA=FIG2&PREV1Q);
```

```
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=("&VAL", 'Benchmark'),
          REGCAT=("&VAL", 'Benchmark'),
          BENEFIT=('Health Plan'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV2,
          OUTDATA=FIG2&PREV2Q);
```

```
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=("&VAL", 'Benchmark'),
          REGCAT=("&VAL", 'Benchmark'),
          BENEFIT=('Health Plan'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV3,
          OUTDATA=FIG2&PREV3Q);
```

```
%NEWSCORE (FIGURE=2,
            QUARTER=&CURRNTQ);
```

```
%NEWSCORE (FIGURE=2,
            QUARTER=&PREV1Q);
```

```
%NEWSCORE (FIGURE=2,
            QUARTER=&PREV2Q);
```

```
%NEWSCORE (FIGURE=2,
            QUARTER=&PREV3Q);
```

```
%COMBDATA (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;
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=&CURRNT,
          OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Personal Doctor'),
          BENTYPE=('Composite'),
          TIMEPD=&CURRNT,
          OUTDATA=FIG3&CURRNTQ);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Personal Doctor'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV1,
          OUTDATA=FIG3&PREV1Q);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Personal Doctor'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV2,
          OUTDATA=FIG3&PREV2Q);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Personal Doctor'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV3,
          OUTDATA=FIG3&PREV3Q);

%NEWSCORE (FIGURE=3,
           QUARTER=&CURRNTQ);
%NEWSCORE (FIGURE=3,
           QUARTER=&PREV1Q);
%NEWSCORE (FIGURE=3,
           QUARTER=&PREV2Q);
%NEWSCORE (FIGURE=3,
           QUARTER=&PREV3Q);

%COMBDATA (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;
  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=&CURRNT,
          OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Specialty Care'),
          BENTYPE=('Composite'),
          TIMEPD=&CURRNT,
          OUTDATA=FIG4&CURRNTQ);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Specialty Care'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV1,
          OUTDATA=FIG4&PREV1Q);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Specialty Care'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV2,
          OUTDATA=FIG4&PREV2Q);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Specialty Care'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV3,
          OUTDATA=FIG4&PREV3Q);

```

```

%NEWSCORE (FIGURE=4,
           QUARTER=&CURRNTQ);
%NEWSCORE (FIGURE=4,
           QUARTER=&PREV1Q);
%NEWSCORE (FIGURE=4,
           QUARTER=&PREV2Q);
%NEWSCORE (FIGURE=4,
           QUARTER=&PREV3Q);

```

```

%COMBDATA (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;
  PUT COL2 '09'X COL3;
RUN;

```

```

/*no disenroll data for Q1 2005, LLu 6/2/05*/
*****
* FIGURE 4: Intent to Disenroll
*****;
/*
TITLE2 'Figure 4: Intent to Disenroll';
PROC FREQ NOPRINT DATA=IN.DISENRL;
  WHERE BENTYPE = &CURRNT

```

```

        AND FIGURE='INTENT TO DISENROLL'
        AND REGION = "&VAL";
    TABLES BENTYPE*REGION*FIGURE*COL3*COL4*ROW/ OUT=FIG4&CURRNTQ(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=IN.DISENRL;
    WHERE BENTYPE = &CURRNT
        AND FIGURE='INTENT TO DISENROLL'
        AND COL2 NE .;
    TABLES BENTYPE*REGION*FIGURE*COL2*ROW/ OUT=FIG4&CURRNTQ.C(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=IN.DISENRL;
    WHERE BENTYPE = &PREV1
        AND FIGURE='INTENT TO DISENROLL'
        AND REGION = "&VAL";
    TABLES BENTYPE*REGION*FIGURE*COL3*COL4*ROW/ OUT=FIG4&PREV1Q(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=IN.DISENRL;
    WHERE BENTYPE = &PREV1
        AND FIGURE='INTENT TO DISENROLL'
        AND COL2 NE .;
    TABLES BENTYPE*REGION*FIGURE*COL2*ROW/ OUT=FIG4&PREV1Q.C(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=IN.DISENRL;
    WHERE BENTYPE = &PREV2
        AND FIGURE='INTENT TO DISENROLL'
        AND REGION = "&VAL";
    TABLES BENTYPE*REGION*FIGURE*COL3*COL4*ROW/ OUT=FIG4&PREV2Q(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=IN.DISENRL;
    WHERE BENTYPE = &PREV2
        AND FIGURE='INTENT TO DISENROLL'
        AND COL2 NE .;
    TABLES BENTYPE*REGION*FIGURE*COL2*ROW/ OUT=FIG4&PREV2Q.C(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=IN.DISENRL;
    WHERE BENTYPE = &PREV3
        AND FIGURE='INTENT TO DISENROLL'
        AND REGION = "&VAL";
    TABLES BENTYPE*REGION*FIGURE*COL3*COL4*ROW/ OUT=FIG4&PREV3Q(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=IN.DISENRL;
    WHERE BENTYPE = &PREV3
        AND FIGURE='INTENT TO DISENROLL'
        AND COL2 NE .;
    TABLES BENTYPE*REGION*FIGURE*COL2*ROW/ OUT=FIG4&PREV3Q.C(DROP=COUNT PERCENT);
RUN;

DATA COL2(DROP=COL3 COL4)
    COL3(DROP=COL2 COL4)
    COL4(DROP=COL2 COL3);
    SET FIG4Q1 FIG4Q1C FIG4Q4 FIG4Q4C FIG4Q3 FIG4Q3C FIG4Q2 FIG4Q2C;

    IF COL2>=0 THEN OUTPUT COL2;
    IF COL3>=0 THEN OUTPUT COL3;
    IF COL4>=-1 THEN OUTPUT COL4;
RUN;

PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;

DATA FIG4;
    MERGE COL2 COL3 COL4;
    BY ROW;
RUN;

*/
*****
* DDE LINK (EXCEL file has to be open )
*****
/*
FILENAME TBL DDE "EXCEL|DISENROLL!R19C2:R22C4";

```

```

DATA _NULL_;
  SET FIG4;
  FILE TBL NOTAB LRECL=200;
  PUT COL2 '09'X COL3 '09'X COL4;
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=&CURRNT,
  OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
  MAJGRP='Prime Enrollees',
  REGION=("&VAL", 'Benchmark'),
  REGCAT=("&VAL", 'Benchmark'),
  BENEFIT=('Getting Needed Care','Getting Care Quickly'),
  BENTYPE=('Composite'),
  TIMEPD=&CURRNT,
  OUTDATA=FIG5&CURRNTQ);
%GETDATA (DATASET=&CURRENT,
  MAJGRP='Prime Enrollees',
  REGION=("&VAL", 'Benchmark'),
  REGCAT=("&VAL", 'Benchmark'),
  BENEFIT=('Getting Needed Care','Getting Care Quickly'),
  BENTYPE=('Composite'),
  TIMEPD=&PREV1,
  OUTDATA=FIG5&PREV1Q);
%GETDATA (DATASET=&CURRENT,
  MAJGRP='Prime Enrollees',
  REGION=("&VAL", 'Benchmark'),
  REGCAT=("&VAL", 'Benchmark'),
  BENEFIT=('Getting Needed Care','Getting Care Quickly'),
  BENTYPE=('Composite'),
  TIMEPD=&PREV2,
  OUTDATA=FIG5&PREV2Q);
%GETDATA (DATASET=&CURRENT,
  MAJGRP='Prime Enrollees',
  REGION=("&VAL", 'Benchmark'),
  REGCAT=("&VAL", 'Benchmark'),
  BENEFIT=('Getting Needed Care','Getting Care Quickly'),
  BENTYPE=('Composite'),
  TIMEPD=&PREV3,
  OUTDATA=FIG5&PREV3Q);

%MACRO COMPSCORE (QUARTER=, /*Data is processed for current quarter and each of 3 previous
quarters*/
  FIGNUM= /*Use macro for figures 5, 6, and 7
*/
  );
DATA FIG&FIGNUM.Q&QUARTER FIG&QUARTER(KEEP=SCORE BENEFIT SIG);
  SET FIG&FIGNUM.Q&QUARTER;
  IF REGION = 'Benchmark' THEN OUTPUT FIG&QUARTER;
  ELSE OUTPUT FIG&FIGNUM.Q&QUARTER;
RUN;
PROC SORT DATA=FIG&FIGNUM.Q&QUARTER;
  BY BENEFIT;
RUN;
PROC SORT DATA=FIG&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.Q&QUARTER;

```

```

SET FIG&FIGNUM.Q&QUARTER;

KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
RUN;

DATA FIG&FIGNUM.Q&QUARTER(DROP=RSCORE);
MERGE FIGB&QUARTER(RENAME=(SCORE=RSCORE))
      FIG&FIGNUM.Q&QUARTER;
BY BENEFIT;
SCORE=SCORE-RSCORE;
RUN;
%MEND COMPSCORE;

%COMPSCORE (QUARTER=1,
            FIGNUM=5);
%COMPSCORE (QUARTER=2,
            FIGNUM=5);
%COMPSCORE (QUARTER=3,
            FIGNUM=5);
%COMPSCORE (QUARTER=4,
            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 FIG5Q4 FIG5Q3 FIG5Q2 FIG5Q1;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
  BSCORE=SCORE;
  ROW = 18;
  SCORE1 = SCORE;
END;
ELSE IF TIMEPD = &PREV3 THEN DO;
  ROW = 18;
  SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = &PREV2 THEN DO;
  ROW = 19;
  SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = &PREV1 THEN DO;
  ROW = 20;
  SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = &CURRNT 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;
  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';
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=('Benchmark'),
          REGCAT=('Benchmark'),
          BENEFIT=('Courteous and Helpful Office Staff','How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD=&CURRNT,
          OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Courteous and Helpful Office Staff','How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD=&CURRNT,
          OUTDATA=FIG6&CURRNTQ);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Courteous and Helpful Office Staff','How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV1,
          OUTDATA=FIG6&PREV1Q);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Courteous and Helpful Office Staff','How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV2,
          OUTDATA=FIG6&PREV2Q);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Courteous and Helpful Office Staff','How Well Doctors Communicate'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV3,
          OUTDATA=FIG6&PREV3Q);

%COMPSCORE (QUARTER=1,
            FIGNUM=6);
%COMPSCORE (QUARTER=2,
            FIGNUM=6);
%COMPSCORE (QUARTER=3,
            FIGNUM=6);
%COMPSCORE (QUARTER=4,
            FIGNUM=6);

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 FIG6Q4 FIG6Q3 FIG6Q2 FIG6Q1;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
  BSCORE=SCORE;
  ROW = 18;
```

```

        SCORE1 = SCORE;
    END;
    ELSE IF TIMEPD = &PREV3 THEN DO;
        ROW = 18;
        SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = &PREV2 THEN DO;
        ROW = 19;
        SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = &PREV1 THEN DO;
        ROW = 20;
        SCORE=BSCORE+SCORE;
        IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
    END;
    ELSE IF TIMEPD = &CURRNT THEN DO;
        ROW = 21;
        SCORE=BSCORE+SCORE;
        SCORE1 = SCORE;
    END;

    IF (BENEFIT = 'Courteous and Helpful Office Staff' AND REGION NE 'Benchmark') THEN OUTPUT COL2
    COL6;
    IF (BENEFIT = 'Courteous and Helpful Office Staff' AND REGION = 'Benchmark') THEN OUTPUT COL3;
    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=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 6. LLU 10/7/04*/

DATA FIG6A;
    MERGE COL2 COL6;
    BY ROW;
RUN;

DATA FIG6B;
    MERGE COL4 COL7;
    BY ROW;
RUN;

DATA FIG6AB;
    SET FIG6A FIG6B;
    BY ROW;
RUN;

DATA FIG6;
    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!R18C8:R21C8";

DATA _NULL_;

```



```
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL2;
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C9:R18C9";
```

```
DATA _NULL_;
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL3;
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C10:R21C10";
```

```
DATA _NULL_;
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL4;
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C11:R18C11";
```

```
DATA _NULL_;
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL5;
RUN;
```

```
FILENAME TBL DDE "EXCEL|COMPOSITES!R23C8:R26C10";
```

```
DATA _NULL_;
SET FIG6;
FILE TBL NOTAB LRECL=200;
PUT COL6 '09'X '09'X 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=&CURRNT,
          OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Customer Service','Claims Processing'),
          BENTYPE=('Composite'),
          TIMEPD=&CURRNT,
          OUTDATA=FIG7&CURRNTQ);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Customer Service','Claims Processing'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV1,
          OUTDATA=FIG7&PREV1Q);
%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=(" &VAL", 'Benchmark'),
          REGCAT=(" &VAL", 'Benchmark'),
          BENEFIT=('Customer Service','Claims Processing'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV2,
          OUTDATA=FIG7&PREV2Q);
```

```

%GETDATA (DATASET=&CURRENT,
          MAJGRP='Prime Enrollees',
          REGION=("&VAL", 'Benchmark'),
          REGCAT=("&VAL", 'Benchmark'),
          BENEFIT=('Customer Service', 'Claims Processing'),
          BENTYPE=('Composite'),
          TIMEPD=&PREV3,
          OUTDATA=FIG7&PREV3Q);

%COMPSCORE (QUARTER=1,
            FIGNUM=7);
%COMPSCORE (QUARTER=2,
            FIGNUM=7);
%COMPSCORE (QUARTER=3,
            FIGNUM=7);
%COMPSCORE (QUARTER=4,
            FIGNUM=7);

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 FIG7Q4 FIG7Q3 FIG7Q2 FIG7Q1;
BY BENEFIT;
RETAIN BSCORE;
IF REGION = 'Benchmark' THEN DO;
  BSCORE=SCORE;
  ROW = 18;
  SCORE1 = SCORE;
END;
ELSE IF TIMEPD = &PREV3 THEN DO;
  ROW = 18;
  SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = &PREV2 THEN DO;
  ROW = 19;
  SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = &PREV1 THEN DO;
  ROW = 20;
  SCORE=BSCORE+SCORE;
  IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
  ELSE SCORE1=SCORE;
END;
ELSE IF TIMEPD = &CURRNT 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;
  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
* CHANGED MAJGRP TO 'Prime Enrollees' (from 'All Users') in Q2_2002
* ADD SMOKING CASSATION TO PREVENTIVE CARE TABLE
* ADD HEALTHY BEHAVIOR FOR BMI MEASUREMENT IN Q1 2005
*****;
PROC FREQ NOPRINT DATA=&CURRENT;

```

```

WHERE MAJGRP IN ('Prime Enrollees','Benchmark')
  AND REGION = "&VAL"
  AND REGCAT = "&VAL"
  AND BENEFIT IN ('Preventive Care','Healthy Behavior')
  AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                  'Percent Not Obese', 'Non-Smoking Rate','Counselled To Quit')
  AND TIMEPD = &CURRNT;
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_&CURRNTQ(DROP=COUNT
PERCENT);
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*N_OBS/ OUT=TAB2_&CURRNTQ(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = 'Prime Enrollees'
  AND REGION = "&VAL"
  AND REGCAT = "&VAL"
  AND BENEFIT IN ('Preventive Care','Healthy Behavior')
  AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                  'Percent Not Obese','Non-Smoking Rate','Counselled To Quit')
  AND TIMEPD = &PREV1;
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_&PREV1Q(DROP=COUNT
PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = 'Prime Enrollees'
  AND REGION = "&VAL"
  AND REGCAT = "&VAL"
  AND BENEFIT IN ('Preventive Care','Healthy Behavior')
  AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                  'Percent Not Obese','Non-Smoking Rate','Counselled To Quit')
  AND TIMEPD = &PREV2;
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_&PREV2Q(DROP=COUNT
PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = 'Prime Enrollees'
  AND REGION = "&VAL"
  AND REGCAT = "&VAL"
  AND BENEFIT IN ('Preventive Care','Healthy Behavior')
  AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                  'Percent Not Obese','Non-Smoking Rate','Counselled To Quit')
  AND TIMEPD = &PREV3;
TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_&PREV3Q(DROP=COUNT
PERCENT);
RUN;
DATA TAB1&CURRNTQ;
  SET TAB1_&CURRNTQ;
  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;

```

```

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&CURRNTQ;
SET TAB2_&CURRNTQ;
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&PREV1Q;
SET TAB1_&PREV1Q;
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&PREV2Q;
SET TAB1_&PREV2Q;
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&PREV3Q;
SET TAB1_&PREV3Q;
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&PREV3Q TAB1&PREV2Q TAB1&PREV1Q TAB1&CURRNTQ TAB2&CURRNTQ;
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;
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 = signif ;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
  FILE CMDS;
  DDECommand = '[Run(" | | "&macron" | | ',0)]' ;
  put DDECommand ;

RUN;

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 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.Q1
    CFIG&I.Q2
    CFIG&I.Q3
    CFIG&I.Q4
  ;
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*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 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;

```

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APPENDIX I

SAMPLE SUDAAN CODE FOR VARIANCE ESTIMATION – QUARTERS I-IV

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```

*****
* program: SUDTEST.SAS
* purpose: to demonstrate SAS callable SUDAAN procedures to get
*          SEs for survey estimates
* input: j:\dod\2006\data\Afinal\hcs06A_1.sd2
*****
*
options ps=79 ls=132;
libname in 'j:\dod\2006\data\Afinal\hcs06A_1.sd2';
libname library 'j:\dod\2006\data\Afinal\fmtlib';

***SORT FILE BY STRATUM***;
data hcs2006;
set in.hcs06A_1;
***make xregion = 7 to xregion = 8 for tables ***;
if xregion = 7 then xregion = 8;
run;

PROC SORT DATA=HCS2006(keep=xtnexreg h06014 h06015 h06049 xenrllmt
                        cfwf stratum);

BY stratum;
RUN;

*****
if you want to estimate means
*****;
title 'Output file from SUDAAN for estimating means';
title2 'Overall ratings among all beneficiaries in the past 12 months';
title3 'who saw a specialist (H06014=1) for each region (XTNEXREG)';

PROC DESCRIPT DATA=HCS2006 DESIGN=STRWR NOPRINT;
WEIGHT CFWF;          ***** sampling/FINAL SURVEY WEIGHT *****;
NEST STRATUM / missunit;
VAR H06015;          ***** VARIABLES TO BE ESTIMATED**;
SUBPOPN H06014=1;   *****specify domains to be reported;
TABLES XTNEXREG;
SUBGROUP XTNEXREG;
LEVELS 4;
OUTPUT MEAN SEMEAN deffmean/ TABLECELL=DEFAULT FILENAME=mnsdat;
***SEMEAN=standard error and deffmean=design effect**;
RUN;

proc print data=mnsdat;
run;

*****
if you want to estimate percentage
*****;
title 'Output file from SUDAAN for estimating percentages';
title2 'Those who last had a blood pressure reading less than 12 months';
title3 'ago, 1 to 2 years ago, and more than 2 years ago (H06049)';
title4 'by TRICARE enrollment (XENRLLMT) in region 3';
TITLE5 'PROC CROSSTAB';
PROC CROSSTAB DATA=HCS2006 DESIGN=STRWR NOPRINT;
WEIGHT CFWF;
NEST STRATUM / missunit;
SUBPOPN XTNEXREG=3;
SUBGROUP H06049 XENRLLMT;
LEVELS 3 5;
TABLES H06049*XENRLLMT;          /* DEP * INDEP */
OUTPUT NSUM WSUM SEWGT COLPER SECOL
/ TABLECELL=DEFAULT FILENAME=OUTDAT;
RUN;

proc print data=outdat;
run;

```