

Contract No.: 282-98-0021
MPR Reference No.: 8860-500

2002 Health Care Survey of DoD Beneficiaries:

Child Technical Manual

**Publication Date:
December 2002**

Final

Submitted to:

TRICARE Management Activity
5111 Leesburg Pike, Suite 810
Falls Church, VA 22041
(703) 681-4263

Task Order Officer:

Lt. Col. Michael Hartzell, DVM MPH

Submitted by:

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

Project Director:

Eric Schone, Ph.D.

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

Contents

Chapter	Page
1	Introduction 1
	A. Overview of the HCSDB 2
	1. Sample Design 2
	2. 2002 Child HCSDB 2
	3. Survey Response 3
	4. Database Development 3
	5. Report 3
	B. Organization of this Manual 4
2	Survey of Children 5
	A. Survey Operations Activities 5
	B. Address Update Activities Prior to and During Survey Administration 5
	C. Letter Processing Procedures 8
	D. Survey Administration Timeline 8
	E. Processing and Classification of Incoming Surveys 10
3	Database 15
	A. Database Design 15
	1. Data Sources 15
	2. Variable Naming Conventions 24
	3. Missing Value Conventions 24
	B. Cleaning and Editing 26
	1. Scan Review 26
	2. Additional NRC Editing and Coding 26
	3. Duplicate or Multiple Surveys 27
	4. Removal of Sensitive or Confidential Information 27
	5. Initial Frequencies 27
	6. Data Cleaning and Recoding of Variables 27
	7. Quality Assurance 28
	C. Record Selection 28
	D. Constructed Variables 31
	1. Demographic Variables 31
	2. TRICARE Prime Enrollment and Insurance Coverage 31
	3. Access to Care 32
	4. Utilization 34
	E. Weighting Procedures 31
	1. Constructing the Sampling Weight 34
	2. Adjustment for Total Nonresponse 35
	3. Poststratification 35
	4. Calculation of Jackknife Replicates 37

4	Analysis.....	39
	A. Response Rates	39
	1. Definition of Response Rates	39
	2. Reporting	40
	B. Variance Estimation.....	42
	1. Taylor Series Linearization.....	42
	2. Jackknife Replication.....	43
	C. Significance Tests.....	44
	D. Demographic Adjustments.....	44
	E. Dependent and Independent Variables	44
	F. Reports.....	45
	1. 2002 Child TRICARE Consumer Report	46
	References	47

Appendices

Appendix	Page
A	Annotated Questionnaires..... A-1
B	Survey Fielding Materials B-1
C	Data Processing Architecture C-1
D	Plan for Data Quality - Coding Scheme and Coding Tables D-1
E	SAS code for Child TRICARE Consumer Reports..... E-1
	E-1 Create Variables for Child TRICARE Consumer Reports..... E-3
	E-2 Calculate CAHPS Adjusted Scores E-13
	E-3 Convert CAHPS Scores Into Web Layout..... E-25
	E-4 Calculate CAHPS Benchmark Data for 2002 Child HCSDB E-32
	E-5 Calculate PCM Composite Score E-60
	E-6 Convert PCM Composite Scores Into Web Layout E-66
	E-7 Generate Web Layout for 2002 Child TRICARE Consumer Reports E-68
	E-8 Merge Final CAHPS and PCM Variables for Child TRICARE Consumer Reports..... E-71
	E-9 Calculate Significance Test for CAHPS Scores..... E-75
	E-10 Calculate Scores and Significance Test for CAHPS Conus Scores E-78
	E-11 Calculate Trends E-94
F	Web Specifications for Child TRICARE Consumer Reports F-1
G	SAS Code for Database Construction..... G-1
	G-1 Combine Item Response Data From NRC With the MPR Sampling and DEERS Variables..... G-3
	G-2 Implement Coding Scheme and Coding Tables G-7
	G-3 Create Status Flag for Record Selection G-25
	G-4 Constructed Variables for Analysis G-28
	G-5 Merge Constructed Variables Onto Data File G-32
	G-6 Response Rate Calculations G-38
	G-7 Development of Weights G-45
	G-8 Post Stratification Adjustments..... G-53
	G-9 Calculate Replicated Weights G-58
	G-10 Final Merge..... G-65
H	SUDAAN Code for Variance Estimation H-1

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

Tables

Table		Page
2.1	Frequency of Address Source by Beneficiary Category.....	7
2.2	Frequency of Address Sources for Returned Surveys.....	8
2.3	Mailing Timeline.....	10
2.4	Frequency (N) and Percent Distribution of Final Disposition of Survey Sample by Beneficiary Group.....	13
2.5	Returned Surveys by Survey Type.....	14
3.1	Variables in the 2002 Child HCSDB Data File.....	17
3.2	Naming Conventions for 2002 Child HCSDB Variables.....	25
3.3	Coding of Missing Data and “Not Applicable” Responses.....	26
3.4	FLAG_FIN Variable.....	29
3.5	TRICARE Standards for Access.....	33
4.1	Response Rates Overall, by Enrollment Group, by Age Group, and Super Region.....	41

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

Chapter

1

Introduction

The 2002 Child 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 parents' opinions concerning their child's experience in the military health system (MHS). The Child HCSDB is closely modeled to the Consumer Assessment of Health Plans Survey (CAHPS) 2.0H survey instrument so that findings for children in the MHS can be compared to the results of CAHPS surveys of privately insured children in the private sector. The Child HCSDB is intended to answer the following questions:

- How *satisfied* are sponsors of children in the MHS with their child's health care and their health plan?
- Does *access* for children at military and civilian facilities meet TRICARE standards?
- What aspects of MHS care contribute most to beneficiary satisfaction with their child's health care experiences? With which aspects are beneficiaries least satisfied?
- What are the demographic characteristics of children in the MHS and their sponsors?
- How do children in the MHS compare with children in the private sector on issues related to satisfaction and access to care?

The HCSDB is a 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). The DoD Defense Manpower Data Center (DMDC) prepared the sampling frame, which consists of selected variables for each MHS beneficiary in the Defense Enrollment Eligibility Reporting System (DEERS) database in February 2002. 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). The frame 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.

Mathematica Policy Research, Inc. (MPR, Washington, D.C.) prepared the sample of 35,000 child beneficiaries (Clusen and Friedman, 2002). National Research Corporation (NRC) fielded the survey between June and August 2002. MPR analyzed the survey data, reported on the results, and prepared this document, the "2002 Health Care Survey of DoD Beneficiaries: Child Technical Manual" under task order 14, under Contract Number 282-98-0021.

This manual is designed as a reference tool to be used by analysts 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 report. The manual 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

This section represents an overview of the methodology used in the survey. From the sample, 11,401 parents or sponsors of MHS beneficiaries younger than 18 years of age completed and returned a 2002 Child HCSDB questionnaire between July 2002 and August 2002.

1. Sample Design

The 2002 child sample design is based on three sample stratifications—enrollment status, geographic area, and age group. Enrollment type is defined by enrollment in TRICARE Prime with a military primary care manager (PCM), enrollment in TRICARE Prime with a civilian PCM, and not enrolled in TRICARE Prime. The effect of this stratification is to allocate a greater proportion of the sample to those enrolled in Prime and a smaller proportion to those not enrolled in Prime.

Geographic area refers to the beneficiary's regional assignment. The beneficiary's regional assignment is determined by the MTF that bears the financial responsibility for the beneficiary's health care. Only beneficiaries in the continental United States were included in the sample. Regions are combined into three "super regions". Regions are organized to reflect the relative maturity of TRICARE Prime in each region. The areas are referred to as *new regions*, where Prime is most recently implemented (regions 1, 2, and 5); *mature regions*, where Prime was first implemented (regions 6, 9-12, and 16); and *other regions* (regions 3, 4, 7, and 8).

Beneficiaries were assigned to one of three age groups: younger than 6 years old, between 6 and 12, and between 13 and 17 years old. Sampling procedures ensured that only one child per household was surveyed.

2. 2002 Child HCSDB

The HCSDB is an annual health care survey that was first fielded in 1995 for active duty military personnel, retirees, and their adult family members. In 1996 and 1997, the survey was expanded to include topics related to health care of children. In those years, the survey consisted of two separate questionnaires: Form A for adults and Form C for children's topics. The 1998 HCSDB did not include a child survey. In 2000, fielding of the child survey was resumed. The child survey assesses parents' satisfaction with their child's access to health care, TRICARE Prime, communication and customer service related to pediatric care. Note that prior to 2002, the title of the survey referred to the survey reference period. For example, the survey fielded in 2000 described children's experiences beginning in 1999 and was known as the 1999 Child HCSDB. Beginning in 2002, the survey title refers to the year the survey was fielded.

The 1999, 2000, and 2002 Child HCSDB was closely modeled on CAHPS 2.0H survey instruments so that findings for children in the MHS could be compared with the results of CAHPS surveys of privately insured children in the civilian sector. Most of the survey questions are identical to the CAHPS questions. CAHPS is a survey program sponsored by the Agency for Health Care Research and Quality (AHRQ), U.S. Department of Health and Human Services, and the Picker Institute. The program is designed to monitor the satisfaction and access of civilian health care plan beneficiaries. A few of the questions are "CAHPS-like" but are modified slightly to better fit the MHS context; some questions are unique to issues related to TRICARE.

The Child HCSDB covers the following topics:

- **Health Plan.** This section collects data on TRICARE Prime enrollment and the use of supplemental insurance and/or other private insurance by the child in the past 12 months.
- **Your Child's Personal Doctor or Nurse.** In this section, respondents are asked about their relationship with their child's personal doctor or nurse. They are asked to rate their child's

personal doctor or nurse on a scale of 0 to 10 where 0 is the worst and 10 is the best. There are additional questions on problems receiving care from a TRICARE primary care manager.

- **Getting Health Care from a Specialist.** This section collects information about the child's need for and access to care from specialists. Respondents rate the specialist that their child sees most frequently on a scale from 0 to 10 where 0 is the worst and 10 is the best.
- **Calling Doctors' Offices.** In this section, parents are asked about access to care and how frequently they obtain information by telephone.
- **Your Child's Health Care in the Last 12 Months.** This section collects information on where children of DoD beneficiaries received most of their care in the past 12 months. These are questions on both military and civilian care. This section also contains questions about general and specific care at the facility the child used the most. These questions cover topics such as availability of providers and their staff, convenience, and courtesy and respect shown by providers and their staff. These questions are similar in content and format to questions in CAHPS.
- **Your Child's Health Plan.** This section is designed to measure beneficiaries' satisfaction with their child's primary health plan. Respondents are asked to rate their child's health plan on a scale of 0 to 10, where 0 is the worst and 10 is the best. Additionally, respondents are asked questions on problems with claims processing for their child, finding and understanding written materials from their child's health plan, customer service, processing paperwork, and resolving complaints.
- **Your Child's Health.** This section collects information about the child's overall health. Questions regarding the child's health, any other condition that is limiting, use of medication, use of special therapies, treatment or counseling are included in this section. Additional questions about the child's use of medical, mental health, or educational services or the need for more services are also included in this section. These questions are designed to identify children with special healthcare needs.
- **About Your Child and You.** This section collects demographic information about the child, including age, gender, and race. Respondents also report their age, gender, education level, and relationship to the child.

3. Survey Response

The survey was fielded by mail. Out of the initial sample of 35,000, sponsors of 33,984 children were surveyed. NRC sent out 32,919 surveys during Wave 1 on July 10, 2002. The final mailing took place on August 14, 2002. Of these questionnaires, 11,401 were completed and returned by September 9, 2002, for a response rate of 32.4 percent.

4. Database Development

MPR edited the data, selected the records for inclusion in the final database, and constructed variables to be used in the reports. To ensure that the survey data was representative of the DEERS population, MPR developed weights to take account of the initial sampling and the sampled individuals who chose not to respond to the survey.

5. Report

This year's results are presented in electronic HTML format on TMA's website at <http://www.TRICARE.USD.MIL>. In the 2002 Child TRICARE Consumer Report, results are presented by enrollment group, age, and region. Results from this year's survey are compared to the civilian population using data from the national CAHPS Benchmarking Database (NCBD). Programming specifications used to create the Consumer Report using the 2002 Child HCSDB data are included as Appendix E.

B. ORGANIZATION OF THIS MANUAL

Chapter 2 presents the procedures used in fielding the survey. Chapter 3 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 4 describes how the database was analyzed. The description includes rules for developing response rates, 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
- Appendix B: Materials sent to the respondents during the fielding of the survey
- Appendix C: Data Processing Architecture
- Appendix D: Plan for Data Quality – Coding Scheme
- Appendix E: SAS Code for Child TRICARE Consumer Report
- Appendix F: Web Specifications for Child TRICARE Consumer Report
- Appendix G: SAS Code for Database Construction
- Appendix H: The SUDAAN code for calculating variance of estimates

Chapter
2

Survey of Children

This chapter presents information on the survey administration cycle for the Quarter 3, 2002 Child Health Care Survey of DoD Beneficiaries (HCSDB), with specific details on the survey mailing cycle and the number of surveys received.

A. SURVEY OPERATIONS ACTIVITIES

The operational support for mailing the survey involved four mailings to beneficiaries between June 10, 2002 and August 15, 2002. Targeted mailings and remailings have been integrated into the mailing administration in order to increase response rates. The mailings are as follows: notification letter, first survey mailing, reminder/thank you postcard, and second survey mailing. The notification letter was a short letter of explanation encouraging beneficiaries to participate. The first and second surveys were mailed with a cover letter of explanation. The reminder/thank you postcard was mailed between the first and second surveys reminding beneficiaries to complete the survey and thanking those beneficiaries who had completed the survey. All mailing pieces were addressed to the parent or guardian of the beneficiary. Examples of these are available in the Appendix B. All mailings have been completed. The field period closed on September 9, 2002.

B. ADDRESS UPDATE ACTIVITIES PRIOR TO AND DURING SURVEY ADMINISTRATION

The sample file was received from Mathematica Policy Research (MPR) on May 10, 2002. The file contained 35,000 records of DoD beneficiaries and 65 variables constructed from the Defense Enrollment Eligibility Reporting System (DEERS). The file was sent to an NCOA vendor for address updating on May 13, 2002. National Research Corporation (NRC) sent a copy of all sample records to an outside vendor to receive address hygiene services and to be interfaced with the National Change of Address (NCOA) database to obtain updated address information. The NCOA vendor returned the updated address file and this information, along with the sample file from MPR, were loaded into NRC's proprietary software system known as Qualysis. Qualysis is NRC's "quality process" software and business discipline that standardizes and automates the entire survey process from data quality checks to the scanning of returned surveys.

The Configuration Manager module in Qualysis contains the layout for all mail items (e.g., the survey, cover letters, thank you/reminder postcards), mail methodology, and cover letter personalization. For the notification letter-mailing step, the address provided by the NCOA vendor was utilized when available. Records that were not updated by the NCOA vendor were mailed to one of the three DEERS addresses: residential address, sponsor address, and unit address. When possible, the residential address was given preference over the sponsor address and likewise the sponsor address was given preference over the unit address. When all records had been assigned an address for the notification letter-mailing step, Qualysis began generating the personalized letters. The notification letter was mailed on June 7, 2002.

The updating of addresses is a continuous process throughout the survey administration cycle. During survey administration, address updates are obtained from multiple sources:

- Self-report by beneficiaries (via telephone, voice mail, or fax).
- Address correction information from the United States Postal Service (USPS).
- Out of date forwarding address information from the USPS.
- Mail items returned by the USPS as non-deliverable.

Updated address information was added to Qualysis through the use of the DoD Beneficiary Update System (DoDBUS), an interface created by NRC developers to allow new address information to be entered into Qualysis and to track changes when using the DEERS supplied addresses.

Address information received directly from the beneficiary was considered the most accurate and was the first address used whenever possible. Beneficiaries were provided with toll free telephone and toll free fax phone numbers and voice mail option to use in order to update their addresses. Collect calls were also available if a beneficiary could not access the toll free telephone number. The telephone and fax numbers were printed on the notification letter, the reminder/thank you card, and the cover letter that accompanied the first survey.

The United States Postal Service also provided address update information in the form of Address Correction Services. This service is accessed by the use of the "Address Service Requested" indicia on the notification letter and the outer envelopes of the first and second surveys. Many post offices returned updated address information on diskettes, which are loaded, into Qualysis. Post offices that did not have access to this technology returned copies of the mail piece with the old and new addresses provided. This information was entered into Qualysis through the DoDBUS.

The DoDBUS also provided the interface to enter non-deliverable mail pieces and mark the address used for that mail step as invalid. If other addresses were available, the DoDBUS operator would choose the next available address for the next mail step. When all addresses had been exhausted, the record was marked as a final non-deliverable and no further mailings were attempted. Second surveys that were returned as non-deliverable were also marked as final non-deliverables as it was the final mail step in this methodology.

Based on data from the final returns data set, a total of 927 beneficiaries did not have sufficient address information and were not included in any of the mail steps. The remaining beneficiaries were mailed the notification letter. Prior to mailing the first survey, NRC removed any beneficiaries who were marked as final non-deliverable or any beneficiary who contacted NRC and refused to participate or was found to be ineligible. First surveys were mailed on July 7, 2002. The reminder/thank you card was mailed on July 17, 2002. The reminder card was sent to all beneficiaries who received the first survey, with the exception of those beneficiaries whose first survey was returned and their record marked as final non-deliverable. Second surveys were mailed on August 14, 2002. Second surveys were mailed to all beneficiaries who did not return a first survey and whose records had not been marked as final non-deliverable.

Table 2.1 summarizes address sources by each of the four beneficiary categories. This table shows the source of the last address used in sending a mailing piece to a beneficiary. Table 1 shows that DEERS supplied addresses were used 85% of the time.

TABLE 2.1
 FREQUENCY OF ADDRESS SOURCE BY BENEFICIARY CATEGORY
 (N = 35,000)

	Active Duty	Active Duty Dependents	Retirees and Family Members < 65	Retirees and Family Members > 65	Total
No valid address (disqualified after NCOA)	0 0.00%	3 0.01%	16 0.05%	0 0.00%	19 0.05%
Bad Address (disqualified by postal cleaning software)	63 0.18%	590 1.69%	255 0.73%	0 0.00%	908 2.59%
Phone call/Voice mail	0 0.00%	59 0.17%	20 0.06%	0 0.00%	79 0.23%
ACR	0 0.00%	332 0.95%	99 0.28%	0 0.00%	431 1.23%
Fax	0 0.00%	21 0.06%	16 0.05%	0 0.00%	37 0.11%
NCOA	0 0.00%	2,456 7.02%	1,209 3.45%	0 0.00%	3,665 10.47%
DEERS Unit	2 0.01%	0 0.00%	0 0.00%	0 0.00%	2 0.01%
DEERS Residential	0 0.00%	17,899 51.14%	8,975 25.64%	0 0.00%	26,874 76.78%
DEERS Sponsor	0 0.00%	2,008 5.74%	974 2.78%	0 0.00%	2,982 8.52%
ODF	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Electronic ACR	0 0.00%	2 0.01%	1 0.01%	0 0.00%	3 0.01%
Total	65 0.19%	23,370 66.77%	11,565 33.04%	0 0.00%	35,000 100.00%

Table 2.2 summarizes the address sources for returned surveys included in Quarter 3 of the 2002 Child HCSDb data file. The data shows that 84% of the returned surveys were mailed to the residential beneficiary address supplied by DEERS.

TABLE 2.2
 FREQUENCY OF ADDRESS SOURCES FOR RETURNED SURVEYS
 (N = 11,459)

Address Type	Frequency (n)	Percent of Returns
DEERS Residential	9,620	84.00%
DEERS Sponsor	413	3.60%
DEERS Unit	0	0.00%
Phone/Voice Mail	50	0.40%
NCOA	1,275	11.10%
Fax	16	0.10%
ACR & ODF	85	0.70%
Electronic ACR	0	0.00%
Total	11,459	100.00%

Note: If beneficiaries returned more than one completed survey, both surveys were included in the numbers in Table 2.2.

C. LETTER PROCESSING PROCEDURES

A vital component to effective management and monitoring of the data collection process is the Survey Control System (SCS). The SCS ensures that data are accurate, integrated, and available during all phases of the survey administration. NRC’s unique identifier known as a “lithocode” links all records in the SCS to the original sample file. The lithocode is a unique identification number assigned by Qualysis at the time that letters or surveys are generated. A new lithocode number is created for each mail step. These lithocodes are stored for each beneficiary in a table in the SCS. This allows NRC staff to determine whether a returned survey is a first or second survey and identify instances where a beneficiary may return both the first and second survey. The lithocode also allows the surveys to be monitored without use of a beneficiary’s social security number or other information that could identify the beneficiary. Lithocodes are used to identify the beneficiary when returned surveys are scanned, whenever beneficiaries are removed from future mailings due to refusal/ineligibility or no valid address, and when addresses are updated or changed in DoDBUS.

D. SURVEY ADMINISTRATION TIMELINE

The HCSDb mailing process was designed so that each beneficiary with a usable address could receive up to four documents: a notification letter, a first survey, a reminder/thank you card, and a second survey. If a beneficiary returned a first survey, a second survey was not sent. If a beneficiary identified themselves as refusing to participate or as ineligible, they were removed from future mail steps as well. Beneficiaries who were marked as “final non deliverable” were also removed from future mail steps.

A total of 34,073 notification letters were mailed on June 10, 2002. Immediately following this mailing, NRC staff began entering address changes and updating records to indicate beneficiaries

who identified themselves as refusing to participate or as ineligible to participate. There were 1,114 records marked as “final non deliverable” and 40 records marked as refused/ineligible prior to mailing the first survey. The survey is a 12-page booklet accompanied by a cover letter of explanation and a postage-paid return envelope. A total of 32,919 first surveys were mailed to beneficiaries on July 10, 2002.

The reminder/thank you card was sent to 32,617 beneficiaries on July 17, 2002. The number of reminder/thank you cards was reduced by 302 due to “final non deliverables” received prior to mailing.

The second survey was mailed to 23,930 beneficiaries on August 14, 2002. This number was reduced by 1,306 records marked as “final non deliverables”, 84 records marked as refused/ineligible, and 7,297 records marked due to beneficiaries who returned the first survey. Prior to the mailing of the first survey, 20 questionnaires were completed by NRC staff and scanned into the SCS. A data set file was created and copies of the questionnaires were sent to the analysis contractor to determine if the file was readable and scanned correctly.

Table 2.3 summarizes the HCSDB mailings. Data includes the date of each mail step, the quantity mailed in each step, and the number of records that were removed prior to the next mail step.

TABLE 2.3
MAILING TIMELINE

Mail Step	Action	Records Removed	Sample
	Total Sample Size		35,000
	Subtract no address	19	
	Subtract bad address	908	
	Total: beneficiaries not receiving a pre note		927
Notification Letter	Mailed on 06/10/02		34,073
	Subtract PND	1,114	
	Subtract ineligible/refused	40	
	Total Subtracted		1,154
First Survey	Mailed on 07/13/01		32,919
	Subtract PND	302	
	Total Subtracted		302
Reminder/Thank You Postcard	Mailed on 07/20/01		32,617
	Subtract PND	1,306	
	Subtract ineligible/refused	84	
	Subtract 1st Surveys received	7,297	
	Total Subtracted		8,687
Second Survey	Mailed on 08/14/02		23,930

E. PROCESSING AND CLASSIFICATION OF INCOMING SURVEYS

Returned surveys were visually checked for any written comments prior to scanning. Refusal or ineligibility comments were entered into Qualysis using the DoDBUS. Any other comments were referred to the Account Director to be forwarded to the DoD Task Manager.

Each morning, NRC staff open non-deliverables and update address changes or "final non deliverable" status for each record. Surveys are scanned using software called FAQSS. The Scanner Interface module of Qualysis receives the information from FAQSS and identifies the beneficiary and their responses to the survey questions.

Surveys must be imported from the Qualysis directory into the FAQSS System by running a "create text definitions files" from the scanner interface application. During the import process, the surveys are run through three passes. In the first pass, the lithocode is read. Any unread lithocodes are manually entered. The system then creates a lithocode list. From the complete

lithocode list, Qualysis exports the text definition files to match the lithocodes. Lastly, FAQSS separates the files into batches and moves them into the processing queue.

The next step in scanning is batch processing. This template is used by the processor to find response areas and to read the responses as valid or spurious. If the system is not 99 percent certain of a response, it is sent to a data editing workstation.

Any questionable marks as detected by the processor are brought up at the data editing station for review by an editor. The editor decides if the mark is a valid response and enters the appropriate system instructions. If the editor is unable to determine the response, a "non-response" instruction is entered. From scanner interface, a transfer results application is applied which moves the scanning files into the Qualysis database and logs the transaction. A final check is then performed to ensure that all surveys have been entered in the Qualysis database.

Throughout the administration of HCSDB, all records are marked with a final disposition code known as FLAG_FIN. Some records (such as no valid addresses) can be marked prior to the first mail step. Other records cannot be marked until all mail steps have been completed. The FLAG_FIN variables and their descriptions are:

FLAG	COMMENT
FLAG_FIN=1	Returned survey – survey was completed and returned.
FLAG_FIN=2	Returned ineligible – survey was returned with at least one question marked and information that the beneficiary was ineligible. The information indicating ineligibility may have come by phone, fax, or the survey itself.
FLAG_FIN=3	Returned blank – temporarily ill or incapacitated. Survey was returned blank along with information that the beneficiary was temporarily ill or incapacitated. These sample members were eligible.
FLAG_FIN=4	Returned blank – deceased. Survey was returned blank along with information that the beneficiary was deceased. These sample members were ineligible.
FLAG_FIN=5	Returned blank – incarcerated or permanently incapacitated. Survey was returned blank along with information that the beneficiary was incarcerated or permanently hospitalized. These sample members were ineligible.
FLAG_FIN=6	Returned blank – left military or divorced after 01/31/02, retired. Survey was returned blank along with information that the beneficiary left the military after 01/31/02, divorced after 01/31/02, or retired. These sample members were eligible.
FLAG_FIN=7	Returned blank – not eligible on 01/31/02. Survey was returned blank along with information that the beneficiary was not eligible for Military Health System Plan on 01/31/02. These sample members were ineligible.
FLAG_FIN=8	Returned blank – other eligible. Survey was returned blank along with a reason given by the sample member. These sample members were eligible.
FLAG_FIN=9	Returned blank – no reason. Survey was returned blank without an explanation. These sample members were eligible.

FLAG_FIN=10	No return – temporarily ill or incapacitated. Survey was not returned and beneficiary was temporarily ill or incapacitated. These sample members were eligible.
FLAG_FIN=11	No return – active refuser. Survey was not returned and beneficiary refused to take part in the survey. These sample members were eligible.
FLAG_FIN=12	No return – deceased. Survey was not returned and beneficiary deceased. These sample members were ineligible.
FLAG_FIN=13	No return – incarcerated or permanently incapacitated. Survey was not returned, beneficiary was incarcerated or permanently hospitalized. These sample members were ineligible.
FLAG_FIN=14	No return – left military or divorced after 01/31/02, retired. Survey was not returned, beneficiary left service after 01/31/02, divorced after 01/31/02, or retired. These sample members were eligible.
FLAG_FIN=15	No return – not eligible on 01/31/02. Survey was not returned, beneficiary was not eligible for Military Health System Plan on 01/31/02. These sample members were ineligible.
FLAG_FIN=16	No return – other eligible. Survey was not returned, beneficiary gave other reason for not completing the survey. These sample members were eligible.
FLAG_FIN=17	No return – no reason. Survey was not returned, beneficiary gave no reason.
FLAG_FIN=18	PND – no address remaining. All addresses were attempted, mailing was returned PND.
FLAG_FIN=19	PND – address remaining at the close of field. At the close of field, the last address used was found invalid, next available was not attempted.
FLAG_FIN=20	Original Non-Locatable – no address at start of mailing. Substantially incomplete or blank address field before the survey was administered, no mailings attempted.
FLAG_FIN=21	Beneficiary provides written documentation declining to participate but doesn't specify a reason.
FLAG_FIN=22	Beneficiary indicates they are hospitalized but without providing any way to determine whether incapacity is temporary or permanent. Therefore, eligibility determination cannot be made.
FLAG_FIN=23	Returned blank – deployed. Survey was returned blank along with information that the beneficiary was deployed.
FLAG_FIN=24	No return – deployed. Survey was not returned, beneficiary was deployed.

Table 2.4 documents the final disposition of the survey sample by each beneficiary group. The ENBGSMPL variable was used to create the beneficiary groups. The ENBGSMPL variable has values 1-10. The value of 1 is = Active Duty*; values of 2, 3, & 4 = Active Duty Dependents, values of 5, 6, & 7 = Retired and Family Members < 65; and values of 8, 9, & 10 = Retired and Family Members > 65.

[*Please note that the active duty beneficiaries are 17 years of age and appear to be active duty or in the guard/reserves.]

TABLE 2.4

FREQUENCY (N) AND PERCENT DISTRIBUTION OF FINAL DISPOSITION
OF SURVEY SAMPLE BY BENEFICIARY GROUP

Final Survey Disposition	Active Duty	Active Duty Dependents	Retirees and Family Members < 65	Retirees and Family Members > 65	Total
Returned non blank survey	12 0.03%	6,875 19.64%	4,514 12.90%	0 0.00%	11,401 32.57%
Returned - ineligible	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Blank - temp ill or incapacitated	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Blank - deceased	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Blank - incarcerated or perm incapacitated	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Blank - left military or divorced after 01/31/02	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Blank - not eligible for MHS on 01/31/02	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Blank - other eligible	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Blank - no reason	1 0.00%	38 0.11%	17 0.05%	0 0.00%	56 0.16%
No return - temp ill or incapacitated	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
No return - active refuser	0 0.00%	18 0.05%	8 0.02%	0 0.00%	26 0.07%
No return - deceased	0 0.00%	4 0.01%	5 0.01%	0 0.00%	9 0.03%
No return - incarcerated or perm incapacitated	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
No return - left military or divorced after 01/31/02	0 0.00%	1 0.00%	1 0.00%	0 0.00%	2 0.01%
No return - not eligible on 01/31/02	1 0.00%	21 0.06%	17 0.05%	0 0.00%	39 0.11%
No return - other eligible	0 0.00%	9 0.03%	8 0.02%	0 0.00%	17 0.05%
No return - no reason given	16 0.02%	13,186 37.67%	5,841 16.69%	0 0.00%	19,043 54.41%
PND - no address remaining	2 0.01%	849 2.43%	402 1.15%	0 0.00%	1,253 3.58%
PND - address remaining	0 0.00%	1,785 5.10%	441 1.26%	0 0.00%	2,226 6.36%
Original Non-Locatable - no address at start	33 0.09%	583 1.67%	311 0.89%	0 0.00%	927 2.65%
Beneficiary writes and refuses participation	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Hospitalized - unknown if temp or perm incapacitated	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
No return - deployed	0 0.00%	1 0.00%	0 0.00%	0 0.00%	1 0.00%
Total	65 0.19%	23,370 66.77%	11,565 33.04%	0 0.00%	35,000 100.00%

Note: This table does not include duplicate surveys.

The data in Table 2.5 display the number of first and second surveys returned.

TABLE 2.5
RETURNED SURVEYS BY SURVEY TYPE

Survey Indicator	First Survey	Second Survey	Total
Returned non-blank survey	8,950 78.10%	2,451 21.39%	11,401 99.49%
Returned non-blank duplicate survey	0 0.00%	58 0.51%	58 0.51%
Total	8,950 78.10%	2,509 21.90%	11,459 100.00%

Note: This table includes duplicate surveys.

Chapter

3

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 2002 Child HCSDB consists of variables from various sources. When NRC delivered the file to MPR after fielding the sample, the following types of variables were present:

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

MPR added 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 updated and cleaned the questionnaire responses using the Coding Scheme tables found in Appendix D. This year the final file does not include both the original and recoded responses, but only the cleaned 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 3.1 lists all variables in the database by source and briefly describes each variable. For specific information on variable location within the database, refer to the “2002 Health Care Survey of DoD Beneficiaries: Child Codebook and User’s Guide.”

1. Data Sources

a. DEERS

DMDC 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 NRC are cleaned and recoded as necessary to ensure that responses are consistent throughout the questionnaire. The Coding Scheme tables found in Appendix D are the basis for insuring data quality.

d. Survey Fielding Variables

In the process of fielding the survey, NRC 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 D) 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 child report cards. 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 3.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 3.E.

TABLE 3.1

VARIABLES IN THE 2002 CHILD HCSDb DATA FILE

Name	Content/Topic
SAMPLING VARIABLES	
MPRID	Unique MPR identifier
MPCSMPL	Sampling rank
SVCSMPL	Sampling service
SEXSMPL	Sampling sex
AGESMPL	Sampling age
BGCSMPL	Sampling beneficiary group
REGSMPL	Sampling region
ENBGSMPL	Enrollment by beneficiary category
STRATUM	Sampling stratum
FNSTATUS	Final Status
KEYCOUNT	Number of key questions answered
POSTSTR	Post-Stratification Identifier
DEERS VARIABLES	
MRTLSTAT	Marital status
RACEETHN	Race/Ethnicity
DAGEQY	Age as of February 28, 2002
FIELDAGE	Field age
PCM	Primary care manager, civilian or military
LEGDDSCD	DEERS Dependent Code
PNLCATCD	Personnel Category Code (Duty Status)
MBRRELCD	Member Relationship Code
DBENCAT	Beneficiary Category
DMEDELG	Medical Privilege Code
DSPONSV	Derived Sponsor Branch of Service
MEDTYPE	Medicare Type
PATCAT	Aggregate Beneficiary Category
ENLSMPL	Enrollment sampling group
ENRID	Enrollment DMISID
ULOCDMIS	Unit DMISID
DCATCH	Catchment area
QUESTIONNAIRE RESPONSES	
C02001	Are you an adult responsible for the child listed on the envelope?
C02002	Which health plan did you use for all or most of your child's health care in the last 12 months?

Name	Content/Topic
C02003	In the last 12 months, how many months in a row was your child enrolled in this health plan?
C02004A	Which of the following health care plans is your child currently covered by? TRICARE Prime
C02004B	Which of the following health care plans is your child currently covered by? TRICARE Extra/Standard (CHAMPUS)
C02004C	Which of the following health care plans is your child currently covered by? Federal Employees Health Benefit Program (FEHBP)
C02004D	Which of the following health care plans is your child currently covered by? Medicaid
C02004E	Which of the following health care plans is your child currently covered by? A civilian HMO (such as Kaiser)
C02004F	Which of the following health care plans is your child currently covered by? Other civilian insurance (such as Blue Cross)
C02004G	Which of the following health care plans is your child currently covered by? Uniform Services Family Health Plan (USFHP)
C02004H	Which of the following health care plans is your child currently covered by? Not sure
C02004I	Which of the following health care plans is your child currently covered by? My child did not use any health plan in the last 12 months
C02005	Do you have one person you think of as your child's personal doctor or nurse?
C02006	With the choices your child's health plan gave you, how much of a problem, if any, was it to get a personal doctor or nurse for your child you are happy with?
C02007	In the last 12 months, when your child went to his or her personal doctor or nurse's office or clinic, how often did the doctor or nurse talk with you about how your child is feeling, growing, or behaving?
C02008	How would you rate your child's personal doctor or nurse now?
C02009	Does your child have a TRICARE primary care manager?
C02010	Do you know the name of your child's TRICARE primary care manager?
C02011	In the last 12 months, how much of a problem was it for your child to see his or her TRICARE primary care manager?
C02012	Does your child's TRICARE primary care manager work in a military treatment facility or in a civilian treatment facility?
C02013	In the last 12 months, did you or a doctor think your child needed to see a specialist?
C02014	In the last 12 months, how much of a problem, if any, was it to get a referral to a specialist that your child needed to see?
C02015	In the last 12 months, did your child see a specialist?
C02016	How would you rate your child's specialist?
C02017	In the last 12 months, was the specialist your child saw most often the same doctor as your child's personal doctor?
C02018	In the last 12 months, did you call a doctor's office or clinic during regular office hours to get help or advice for your child?
C02019	In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed for your child?
C02020	In the last 12 months, did you make any appointments for your child with a doctor or other health provider for regular or routine health care?

Name	Content/Topic
C02021	In the last 12 months, how often did your child get an appointment for regular or routine health care as soon as you wanted?
C02022	In the last 12 months, how many days did your child usually have to wait between making an appointment for regular or routine care and actually see a provider?
C02023	In the last 12 months, did your child have an illness or injury that needed care right away from a doctor's office, clinic, or emergency room?
C02024	In the last 12 months, when your child needed care right away for an illness or injury, how often did your child get care as soon as you wanted?
C02025	In the last 12 months, how long did your child usually have to wait between trying to get care and actually seeing a provider for an illness or injury?
C02026	In the last 12 months, did your child need an appointment for well-patient care, such as a physical exam or check-up?
C02027	In the last 12 months, when your child needed an appointment for well-patient care, how often did your child get an appointment as soon as you wanted?
C02028	In the last 12 months, when your child needed an appointment for well-patient care, how long did your child have to wait between trying to get care and actually seeing a provider?
C02029	In the last 12 months, how many times did your child go to an emergency room?
C02030	In the last 12 months (not counting times your child went to an emergency room) how many times did your child go to a doctor's office or clinic?
C02031	In the last 12 months, how much of a problem, if any, was it to get care for your child that you or a doctor believed necessary?
C02032	In the last 12 months, how much of a problem, if any, were delays in your child's health care while you waited for approval from your child's health plan?
C02033	In the last 12 months, how often did your child wait in the doctor's office or clinic more than 15 minutes past the appointment time to see the person your child went to see?
C02034	In the last 12 months, how often did office staff at your child's doctor's office or clinic treat you and your child with courtesy and respect?
C02035	In the last 12 months, how often were office staff at your child's doctor's office or clinic as helpful as you thought they should be?
C02036	In the last 12 months, how often did your child's doctors or other health providers listen carefully to you?
C02037	In the last 12 months, how often did your child's doctors or other health providers explain things in a way you could understand?
C02038	In the last 12 months, how often did your child's doctors or other health providers show respect for what you had to say?
C02039	Is your child old enough to talk with doctors about his or her health care?
C02040	In the last 12 months, how often did doctors or other health providers explain things in a way your child could understand?
C02041	In the last 12 months, how often did doctors or other health providers spend enough time with your child?
C02042	How would you rate all your child's health care?
C02043	In the last 12 months, what type of facility did your child go to most often for health care?

Name	Content/Topic
C02044	In the last 12 months, did you or anyone else send in any claims for your child to your child's health plan?
C02045	In the last 12 months, how often did your child's health plan handle your child's claims in a reasonable time?
C02046	In the last 12 months, how often did your child's health plan handle your child's claims correctly?
C02047	In the last 12 months, before your child went for care, how often did your child's health plan make it clear how much you would have to pay?
C02048	In the last 12 months, did you look for any information in written materials from your child's health plan?
C02049	In the last 12 months, how much of a problem, if any, was it to find or understand information in the written materials?
C02050	In the last 12 months, did you call the health plan's customer service to get information or help for your child?
C02051	In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your child's health plan's customer service?
C02052	In the last 12 months, have you called or written your child's health plan with a complaint or problem?
C02053	How long did it take for your child's health plan to resolve your complaints?
C02054	Was your complaint or problem settled to your satisfaction?
C02055	In the last 12 months, did you have any experiences with paperwork for your child's health plan?
C02056	In the last 12 months, how much of a problem, if any, did you have with paperwork for your child's health plan?
C02057	How would you rate your child's health plan now?
C02058	To what extent do you agree or disagree that TRICARE Prime makes it hard to get the health care services my child needs?
C02059	To what extent do you agree or disagree that TRICARE Prime makes it hard for my child to see the health care provider I prefer?
C02060	To what extent do you agree or disagree that TRICARE Prime's health benefits do not meet my child's needs?
C02061	To what extent do you agree or disagree that TRICARE Prime provides high quality health care?
C02062	In general, how would you rate your child's overall health now?
C02063	Does your child currently need or use medicine prescribed by a doctor (other than vitamins)?
C02064	Is this because of a medical, behavioral, or other health condition?
C02065	Is this because of ANY health condition that has lasted or is expected to last for at least 12 months?
C02066	Does your child need or use more medical, mental health, or educational services than is usual for most children the same age?
C02067	Is this because of a medical, behavioral, or other health condition?
C02068	Is this because of a health condition that has lasted or is expected to last for at least 12 months?
C02069	Is your child limited or prevented in any way in his or her ability to do the things most children of the same age can do?

Name	Content/Topic
C02070	Is this because of a medical, behavioral, or other health condition?
C02071	Is this because of a health condition that has lasted or is expected to last for at least 12 months?
C02072	Does your child need to get special therapy, such as physical, occupational, or speech therapy?
C02073	Is this because of a medical, behavioral, or other health condition?
C02074	Is this because of a health condition that has lasted or is expected to last for at least 12 months?
C02075	Does your child have any kind of emotional, developmental, or behavioral problem for which he or she needs or gets treatment or counseling?
C02076	Is this because of a health condition that has lasted or is expected to last at least 12 months?
C02077	When was the last time your child had a routine preventive care appointment, such as a physical examination or a well baby/child check-up?
C02078	What is your child's age right now?
C02079	Is your child male or female?
C02080	Is your child of Hispanic or Latino origin or descent?
C02081A	What is your child's race - White?
C02081B	What is your child's race - Black or African American?
C02081C	What is your child's race - Asian?
C02081D	What is your child's race - Native Hawaiian or other Pacific Islander?
C02081E	What is your child's race - American Indian or Alaska Native?
C02082	What is your age now?
C02083	Are you male or female?
C02084	What is the highest grade or level of school that you have completed?
C02085	How are you related to the child?
NRC SURVEY FIELDING VARIABLES	
FLAG_FIN	Final disposition
DUPFLAG	Multiple response indicator
CODING SCHEME FLAGS AND COUNTS	
N2	Coding Scheme flag for Note 2
N3	Coding Scheme flag for Note 3
N4	Coding Scheme flag for Note 4
N5	Coding Scheme flag for Note 5
N6	Coding Scheme flag for Note 6
N7	Coding Scheme flag for Note 7
N8	Coding Scheme flag for Note 8
N9	Coding Scheme flag for Note 9
N10	Coding Scheme flag for Note 10
N11	Coding Scheme flag for Note 11
N12	Coding Scheme flag for Note 12

Name	Content/Topic
N13	Coding Scheme flag for Note 13
N14	Coding Scheme flag for Note 14
N15	Coding Scheme flag for Note 15
N16	Coding Scheme flag for Note 16
N17	Coding Scheme flag for Note 17
N18	Coding Scheme flag for Note 18
N19	Coding Scheme flag for Note 19
N20	Coding Scheme flag for Note 20
MISS_1	Count of skip pattern violations
MISS_4	Count of incomplete grid errors
MISS_5	Count of scalable response of "don't know" or "not sure"
MISS_6	Count of not applicable/valid skips
MISS_7	Count of out-of-range errors
MISS_8	Count of multiple response errors
MISS_9	Count of no response (invalid skip)
MISS_TOT	Total number of missing responses

CONSTRUCTED VARIABLES

CONUS	CONUS/OCONUS Indicator
XENRLLMT	Beneficiary's enrollment status in TRICARE Prime
XENR_PCM	TRICARE Enrollment by PCM type
XINS_COV	Insurance Coverage
XBNFGRP	Constructed beneficiary group
KMILWAT1	Waited less than 4 weeks for well-patient visit at military facility (coded in binary form 1 / 2)
KCIVWAT1	Waited less than 4 weeks for well-patient visit at civilian facility (coded in binary form 1 / 2)
KMILOFFC	Waited less than 30 minutes at military facility (coded in binary form 1 / 2)
KCIVOFFC	Waited less than 30 minutes at civilian facility (coded in binary form 1 / 2)
KBGPRB1	Big problem getting referrals to a specialist (coded in binary form 1 / 2)
KBGPRB2	Big problem getting necessary care (coded in binary form 1 / 2)
KMILOP	Outpatient visits to military facility
KCIVOP	Outpatient visits to civilian facility
KCIVINS	Beneficiary covered by civilian insurance
SUPREG	CONUS regions grouped into 3 super regions

WEIGHTS

BWT	Base-sample weight
POP	DEERS population by CELLNAME for weights
WRWT	Final survey weight

Name	Content/Topic
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

Name	Content/Topic
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

2. Variable Naming Conventions

To preserve continuity with survey data from previous years, MPR followed the same variable naming conventions used for the 1999 and 2000 Child survey data. Variable naming conventions for the 2002 Child HCSDB are shown in Table 3.2. The public use files for the child survey will contain only recoded variables.

3. Missing Value Conventions

The 2002 conventions for missing variables are the same as the 2002 Adult HCSDB conventions. All missing value conventions used in the 2002 HCSDB are shown in Table 3.3

TABLE 3.2

NAMING CONVENTIONS FOR 2002 CHILD HCSDB VARIABLES
(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
C= Health Beneficiaries (17 and Younger, child questionnaire)	02	001 to 085	A to I are used to label responses associated with a multiple response question

(CONSTRUCTED VARIABLES)

1 st Characters: Variable Group	Additional Characters: Additional Information
N=Coding scheme notes	Number referring to Note, e.g., N2
X=Constructed independent variable	Descriptive text, e.g., XENRLLMT
K=Constructed dependent variables	Descriptive text, e.g., KMILOP (total number of outpatient visits to military facility)

TABLE 3.3
CODING OF MISSING DATA AND "NOT APPLICABLE" RESPONSES

ASCII or Raw Source Data	Edited and Cleaned SAS Data	Description
Numeric	Numeric	
-9	.	No response
-8	.A	Multiple response error
-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. 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
- Checks for multiple responses to any question that should have one response
- 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

NRC 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 NRC Editing and Coding

- In preparing the database for MPR, NRC used variable names and response values provided by MPR in the annotated questionnaire (see Appendix A). NRC 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 '.'. Also, as part of the scanning procedure, NRC entered the SAS missing value of '.A' for any question with multiple responses where a single response was required.

3. Duplicate or Multiple Surveys

At this stage, NRC 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 3.C.

4. Removal of Sensitive or Confidential Information

The file that MPR received from NRC contained sensitive information such as social security number (SSN). Any confidential information was removed from the file. Each beneficiary had already been given a generic ID (MPRID) substitute during sample selection, 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 for both versions of the child questionnaire is found in the 2002 Child Coding Scheme. It contains detailed instructions for all editing procedures used to correct data inconsistencies and errors. The Coding Scheme tables are found in Appendix D. 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 program implementing the Coding Scheme is found in Appendix G-2.

a. 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 will be 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. 2002 Child Coding Scheme (see Appendix D) 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.

b. Missing Values

NRC initially encoded any question with missing responses 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 multiple responses, incomplete grids, and questions that should not have been answered is shown in Table 3.3.

Occasionally, missing questionnaire responses can be inferred by examining other responses. For example, if a respondent fails to answer Question 20 regarding appointments made by sponsors for their child for regular or routine care, but answers Questions 21 about how often their child got an appointment for regular or routine care as soon as they wanted, we can reason that they did make an appointment in the past 12 months. Using this technique, we successfully recoded some missing questionnaire responses to legitimate responses.

c. Multiple Response Errors

If a respondent gives more than one answer to a question that should have only one answer, the response to that question was generally coded with a SAS missing value of ‘.A’. For certain questions, however, we used the greater or greatest value as the response. For example, if there was more than one response to the question about the highest education level obtained, we would deduce that the higher (or highest) level is the accurate response.

Using an approach similar to that used for missing values, we examined other questionnaire responses in an attempt to infer what the respondent intended for those questions with multiple marks. For example, if there are multiple responses to Question 18 “In the last 12 months, did you call a doctor’s office or clinic during regular office hours to get help or advice for your child?” and the response to Question 19 indicates that the respondent usually got help or advice they needed for their child, we assume that the response to Question 18 should have been yes.

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 D) 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 weighting adjustments and constructed variables.

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 NRC for each sampled beneficiary. This information is contained in the FLAG_FIN variable and is described in Table 3.4.

TABLE 3.4
FLAG_FIN VARIABLE

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 1/31/02, or retired	Eligible
7	Returned blank	Information sent that beneficiary was not eligible on 1/31/02	Ineligible
8	Returned blank	Blank form accompanied by reason for not participating	Eligible
9	Returned blank	No reason given	----
10	No return	Temporarily ill or incapacitated. Information came in by phone	Eligible
11	No return	Active refuser. Information came in by phone	Eligible
12	No return	Deceased. Information came in by phone	Ineligible
13	No return	Incarcerated or permanently incapacitated. Information came in by phone	Ineligible
14	No return	Left military or divorced after 1/31/02, or retired. Information came in by phone	Eligible
15	No return	Not eligible on 1/31/02. Information came in by phone	Ineligible
16	No return	Other eligible. Information came in by phone	Eligible
17	No return	No reason	---
18	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	Survey was returned blank along with information that the beneficiary was deployed.	Eligible
24	No return- deployed	Survey was not returned, beneficiary was deployed	Eligible

Using the above variables in Table 3.4, 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 on June 1, 2002, that is, not deceased, not incarcerated, and not permanently hospitalized (FLAG_FIN = 3, 6, 8, 10, 11, 14, 16, 21)
- **Group 3:** Ineligible Beneficiaries who were ineligible because of death, institutionalization, divorce, or no longer being in the MHS as of June 1, 2002 (FLAG_FIN = 2, 4, 5, 7, 12, 13, 15)
- **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 adapted from the complete questionnaire rule for the CAHPS 2.0. The key questions are: 2, 3, 5, 9, 13, 18, 20, 23, 26, 29, 30, 43, 44, 48, 50, 52, 55, 57, 58, 74, 78, 79, 80, 81, 82, 83, 84. If fourteen or more of these key items are completed, then the questionnaire can be counted as complete.

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
- 30 for Group 3
- 41 for G4-1
- 42 for G4-2

There were 226 duplicate questionnaires in the data set NRC 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 = 3, i.e., ineligible), then we regarded the questionnaire as being ineligible.

Only beneficiaries with FNSTATUS = 11 were retained. All other records were dropped.

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 3.1 there is a list of all constructed variables for 2002. 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 G.

1. Demographic Variables

a. Super region (SUPREG)

This variable groups the CONUS regions into 3 super regions: new, mature and other regions. Regions are grouped to reflect relative maturity of TRICARE Prime in each region.

New region contains regions 1, 2, and 5. Mature region consists of regions 6, 9, 10, 11, 12, and 16. Other region is comprised of the remainder of the CONUS regions.

```
*****
* Assign SUPREG
*****
IF REGSMPL IN (1,2,5) THEN SUPREG = 1;
ELSE IF REGSMPL IN (6,9,10,11,12,16) THEN SUPREG = 2;
ELSE IF REGSMPL IN (3,4,7,8) THEN SUPREG=3;
```

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 the enrollment type (ENBGSMPL), based on DEERS data, indicates that they were enrolled at the time of data collection. The two categories for TRICARE Prime enrollment are as follows:

1 = Enrollees
 2 = Not enrolled in TRICARE Prime
 . = Unknown

```
/* XENRLLMT--ENROLLMENT STATUS */
IF ENBGSMPL IN (1,2,3,5,6) THEN XENRLLMT = 1; /* Enrolled */
ELSE IF ENBGSMPL IN (4,7) THEN XENRLLMT = 2; /* Not Enrolled */
```

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

This variable determines if a child has a civilian or a military primary care manager (PCM).

1 = Enrolled with a military PCM
 2 = Enrolled with a civilian PCM
 3 = Not enrolled

```
/* XENR_PCM--ENROLLMENT BY PCM TYPE */
IF ENBGSMPL IN (1,3,6) THEN XENR_PCM=1; /* 1=Enrolled - mil PCM */
```

```
ELSE IF ENBGSMPL IN (2,5) THEN XENR_PCM=2; /* 2=Enrolled - civ PCM */
ELSE IF ENBGSMPL IN (4,7) THEN XENR_PCM=3; /* 3=Not Enrolled */
```

c. Most-Used Health Plan (XINS_COV)

The respondent's most-used health plan comes directly from Question 2. The three categories for this variable are as follows:

1 = TRICARE Prime
 2 = TRICARE Standard/Extra (CHAMPUS)
 3 = Other civilian health insurance or civilian HMO
 . = Unknown

```
/* XINS_COV--INSURANCE COVERAGE */
IF C02002 = 1 THEN XINS_COV = 1; /* Prime */
ELSE IF C02002 = 3 THEN XINS_COV = 2; /* Standard/Extra */
ELSE IF C02002 IN (5,6,7,8,9) THEN XINS_COV = 3; /* Other Insurance */
```

d. Types of Coverage (KCVINS)

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

- Is the respondent covered by Civilian insurance (KCVINS)

This variable has the following values:

1 = Yes
 2 = No
 . = Unknown

```
/* KCVINS--IS BENEFICIARY COVERED BY CIVILIAN INSURANCE */
IF (C02004C=1 OR C02004E=1 OR C02004F=1) THEN KCVINS=1; /* YES */
ELSE KCVINS=2;
```

e. Beneficiary group (XBNFGRP)

This variable is equal to the sampling variable BGCSMPL and has the following values:

1 = Active duty
 2 = Family of active duty
 3 = Family of retirees or survivors
 . = Unknown

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

3. Access to Care (KMILWAT1, KCIWAT1, KMILOFFC, KCIVOFFC, KBGPRB1, KBGPRB2)

Many of the survey questions on access relate directly to a TRICARE performance standard. The questions in the Section "Your Child's Healthcare in the Last 12 Months" of the questionnaire refer to all healthcare received in the last 12 months. For these questions, we constructed binary variables, separately for respondents who used military and civilian facilities the most, indicating whether the TRICARE standard was met. Table 3.5 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 information

TABLE 3.5
TRICARE STANDARDS FOR ACCESS

Access Measure	TRICARE Standard	Variable Name	Relevant Question
Wait for a Well Visit	Less than 4 weeks	KMILWATI, KCIWWATI	28
Waiting Room Wait	Within 15 minutes	KMILOFFC, KCIVOFFC	33

```

/* KMILWAT1--WAIT LESS THAN 4 WEEKS FOR WELL PATIENT VISIT AT MILFACILITIES
   KCIWWAT1--WAIT LESS THAN 4 WEEKS FOR WELL PATIENT VISIT AT CIV FACILITIES*/
IF C02043 = 1 THEN DO;
    /* Military */
    IF C02028 IN (1, 2, 3) THEN KMILWAT1 = 1; /* Yes */
    ELSE IF C02028 = 4 THEN KMILWAT1 = 2; /* No */
END;
ELSE IF C02043 = 2 THEN DO;
    /* Civilian */
    IF C02028 IN (1, 2, 3) THEN KCIWWAT1 = 1; /* Yes */
    ELSE IF C02028 = 4 THEN KCIWWAT1 = 2; /* No */
END;

```

```

/* KMILOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT MILITARY FACILITES 0
   KCIVOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT CIVILIAN FACILITES */
IF C02043 = 1 THEN DO;
    /* Military */
    IF C02033 IN (3,4) THEN KMILOFFC = 1; /* Yes */
    ELSE IF C02033 IN (1,2) THEN KMILOFFC = 2; /* No */
END;
ELSE IF C02043 = 2 THEN DO;
    /* Civilian */
    IF C02033 IN (3,4) THEN KCIVOFFC = 1; /* Yes */
    ELSE IF C02033 IN (1,2) THEN KCIVOFFC = 2; /* No */
END;

```

Question 14 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 C02014 =1 THEN KBGPRB1 =1; /* YES */
ELSE IF C02014 IN (2,3) THEN KBGPRB1 =2; /* NO */

```

Similarly, variable KBGPRB2 was constructed. Question 31 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 C02031 =1 THEN KBGPRB2 =1; /* YES */
ELSE IF C02031 IN (2,3) THEN KBGPRB2 =2; /* NO */
```

4. Utilization

a. Outpatient Utilization (KMILOP, KCIVOP)

Question 30 contains the total number of outpatient visits. This is renamed to KMILOP or KCIVOP depending on the answer to Question 43. The new variables have the following values:

- 1 = no visits
- 2 = 1 visit
- 3 = 2 visits
- 4 = 3 visits
- 5 = 4 visits
- 6 = 5 to 9 visits
- 7 = 10 or more visits

```
/* KMILOP--OUTPATIENT VISITS TO MILITARY FACILITY
KCIVOP--OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF C02043 = 1 THEN KMILOP=C02030;
ELSE IF (C02043=. AND C02030=.) THEN KMILOP=.;
ELSE KMILOP = 1 ;
IF C02043 = 2 THEN KCIVOP=C02030;
ELSE IF (C02043=. AND C02030=.) THEN KCIVOP=.;
ELSE KCIVOP = 1 ;
```

E. WEIGHTING PROCEDURES

Estimates based on the 2002 HCSDDB must account for the survey’s complex sample design and for the potential biasing effects due to nonresponse. As a part of sample selection, MPR constructed sampling weights (BWT) that reflect the differential selection probabilities used to sample beneficiaries across strata. Nonresponse can also lead to distortions of the respondent sample with respect to the total population of DoD health care beneficiaries. Adjustments were made to these sampling weights, BWT, to compensate for such distortions, using a weighting class method. These adjusted weights were also adjusted through the poststratification procedure to form the analysis weights, which we included in the final deliverable database. We also generated replicate weights for the final database so that users have the option of obtaining variance estimates with a replication method as well as the Taylor series method. This section presents these weighting procedures for the 2002 Child HCSDDB.

1. Constructing the Sampling Weight

The sampling weight was constructed on the basis of the sample design. In the 2002 Child HCSDDB, stratified sampling was used to select the samples that would receive the questionnaire. Sampling for the Child survey was independently executed within strata defined by combinations of the three domains: enrollment status groups; age 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 2002 child sample design, see the *2002 Health Care Survey of DoD Beneficiaries: HCSDB Child Sample Report*. Our first step in weighting was to construct sampling weights that reflect these unequal sampling rates. These sampling weights can be viewed as the number of population elements that each sampled beneficiary represents. The sampling weight was defined as the inverse of the beneficiary's selection probability or:

$$(1) \quad W_s(h, i) = \frac{N(h)}{n(h)}$$

where:

$W_s(h, i)$ is the sampling weight for the i -th sampled beneficiary within the h -th stratum,
 $N(h)$ is the total number of beneficiaries in the h -th stratum, and
 $n(h)$ is the number of sampled beneficiaries from stratum h .

The sum of the sampling weights over selections from the h -th stratum equals the total population size of the h -th stratum 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). To reduce this bias, we developed procedures to deal with the problems caused by nonresponse. Two types of nonresponse were associated with the 2002 Child HCSDB:

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

With high item response rates observed in previous Adult HCSDB surveys, statistical imputation was not used to compensate for item nonresponse in the 2002 Child HCSDB. To account for total nonresponse, we implemented a weighting class adjustment followed by a poststratification adjustment.

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 class.

The 2002 Child HCSDB weighting classes were defined on the basis of the stratification variables: TRICARE Prime enrollment status, age group, and geographic area. To avoid excessive variance inflation, we required that each weighting class have at least 20 eligible respondents and that the adjustment factor not exceed 4.

Nonresponse adjustment factors for the 2002 Child 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 — completed 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 = 30)
- $d=4$ Eligibility unknown — no questionnaire or eligibility data (FNSTATUS = 41 or 42)

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:

$$(2) \quad A_{wc1}(c,d) = \frac{\sum_{i \in S(c)} W_s(c,i)}{\sum_{i \in S(c)} I_1(i)W_s(c,i) + \sum_{i \in S(c)} I_2(i)W_s(c,i) + \sum_{i \in S(c)} I_3W_s(c,i)} \text{ for } d = 1, 2, 3$$

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 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:

$$(3) \quad W_{wc1}(c,d,i) = A_{wc1}(c,d) W_s(c,i)$$

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 the loss of completed 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:

$$(4) \quad A_{wc2}(c,1) = \frac{\sum_{i \in S(c)} I_1(i)W_{wc1}(c,i) + \sum_{i \in S(c)} I_2(i)W_{wc1}(c,i)}{\sum_{i \in S(c)} I_1(i)W_{wc1}(c,i)}$$

By definition, all $d=3$ 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:

$$(5) \quad W_{wc2}(c,d,i) = A_{wc2}(c,d) W_{wc1}(c,d,i)$$

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

3. Poststratification

To minimize selecting more than one child per household, we assigned all children from a household to the same sampling stratum. Therefore, we needed to compensate for the resulting discrepancy in population totals by using poststratification for the 2002 HCSDB. Poststratification adjustments forced the adjusted weight totals to the DEERS population totals for the specified population groups that formed the *poststrata*. We used DEERS data as of February 28th, 2002 as poststratification values for certain variables. Like stratum variables, poststratum variables are also a combination of three key domain variables: enrollment group, age group, and geographic area (super regions). Construction of age and super region groups is the same as in sampling strata variables except for the reference date.

After creating the cross-classification of the three poststrata variables, enrollment group, age group, and super regions, an additional usual poststratification adjustment was implemented. To illustrate the use of poststratification, let g index poststrata, where $g = 1, 2, \dots, G$. The poststratification adjustment factor for the g -th poststrata was defined as:

$$(6) \quad A_{ps}(g) = \frac{N(g)}{\sum_{h,i \in S(g)} W_{wc2}(h,i)}$$

where:

$N(g)$ is the total number of beneficiaries in the DEERS frame associated with the g -th poststratum, and

$S(g)$ is the set of sample records that are found in the g -th poststratum.

The poststratified adjusted weight for the i -th sample record from the h -th design stratum and the g -th poststratum was then calculated as:

$$(7) \quad W_{ps}(g,h,i) = A_{ps}(g) W_{wc2}(h,i)$$

When summed over members of poststratum g , the poststratified weights now total $N(g)$. This poststratified weight is the final analysis weight used for all reporting and analysis.

4. Calculation of Jackknife Replicates

We constructed the 60 jackknife replicates as follows. First, the entire file of sampled beneficiaries was sorted according to stratification variables. Next, 60 mutually exclusive and exhaustive systematic sub-samples of the full sample was identified in the sorted file.⁵ A jackknife replicate was then obtained by dropping one subsample from the full sample. By dropping each subsample in turn, the same number of different jackknife replicates as subsamples was defined. The entire weighting process as applied to the full sample was then applied separately to each of the jackknife replicates to produce a set of replicate weights for each record. A series of jackknife replicate

⁵With 60 replicates, further statistical analyses such as confidence intervals and hypothesis tests can be based on approximate normal distribution. Inferences with finite replicate number k are based on the student t distribution with $k-1$ degrees of freedom. Thus, with 60 replicates, normal approximation can be used in constructing confidence intervals or hypothesis testing.

weights (WRWT01-WRWT60) was then attached to each beneficiary record in the final database. Given jackknife replicate weights, WesVarPC[®] (Brick et al. 1996) can be used to construct jackknife replication variance estimates.

Analysis

This chapter explains how the Child HCSDb variables were processed during the analysis phase of the project. It covers the procedure for calculating response rates, the method for estimating the variance of the statistics, significance tests, demographic adjustment, development of the dependent and independent variables for the analysis, and report production.

This year's results are being presented in an electronic format.

A. RESPONSE RATES

In this section, we present the procedures for response rate calculation along with a brief analysis of response rates for domains of interest. Response rates for the 2002 Child HCSDb were calculated in the same way as they were calculated for the 2002 Adult HCSDb. 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 2002 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 3.C, all sampled beneficiaries were completely classified into these four main (six detailed) groups: Group 1 (G1-1 and G1-2), Group 2, Group 3, 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: ineligible
- 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 size¹ (\hat{N}_i for Group i , where $i=1,2,3,4$) for the four main response categories.

¹The 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, G4-1, and G4-2, where we denote the unweighted counts by $n_{1,1}$, $n_{1,2}$, $n_{4,1}$, and $n_{4,2}$, and the weighted counts by $\hat{N}_{1,1}$, $\hat{N}_{1,2}$, $\hat{N}_{4,1}$, 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)

$$l = \left(\frac{n_1 + n_2}{n_1 + n_2 + n_3} \right) n_{4,1} \quad \text{and} \quad l_w = \left(\frac{\hat{N}_1 + \hat{N}_2}{\hat{N}_1 + \hat{N}_2 + \hat{N}_3} \right) \hat{N}_{4,1}$$

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)

$$LR = \frac{n_1 + n_2 + l}{n_1 + n_2 + n_4 \left(\frac{n_1 + n_2}{n_1 + n_2 + n_3} \right)} \quad \text{and} \quad LR_w = \frac{\hat{N}_1 + \hat{N}_2 + l}{\hat{N}_1 + \hat{N}_2 + \hat{N}_4 \left(\frac{\hat{N}_1 + \hat{N}_2}{\hat{N}_1 + \hat{N}_2 + \hat{N}_3} \right)}$$

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 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 that we 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 are often interested in getting unweighted measures. All tables include unweighted and weighted values under columns headed “Unweighted” and “Weighted”, respectively. In the following, we focus on discussing unweighted response rates for

domains of interest. Table 4.1 includes response rates for the 2002 Child HCSDb as a whole, by enrollment status by age groups, and by super regions.

- Overall: The overall unweighted response rate for the 2002 Child HCSDb was about 32 percent (which is found in Table 4.1 in the row of “Overall” under the column of “RR” in “Unweighted”).
- Enrollment status: Sponsors of nonenrollees had an unweighted response rate of 30 percent, which is less than the rate for children enrolled in Prime (35 percent).
- Age group: Unweighted response rates according to age groups are: Sponsors of children younger than 6 years old - 30 percent; between 6 and 12 years old - 32 percent; between 13 and 17 years old - 35 percent
- Geographic area: Unweighted response rates according to region are: New regions – 34 percent; mature regions – 31 percent; and other regions – 33 percent.

TABLE 4.1

UNWEIGHTED AND WEIGHTED RESPONSE RATES OVERALL, BY ENROLLMENT GROUP, BY AGE GROUP, AND SUPER REGION

		RR (unweighted) (%)	RR _w (weighted) (%)
Overall		32.4	33.1
Enrollment Group	<i>Enrolled</i>	34.9	34.7
	<i>Not enrolled</i>	29.7	30.3
Age Group	<i>Younger than 6 years old</i>	30.3	31.5
	<i>Between 6 and 12 years old</i>	31.8	32.7
	<i>Between 13 and 17 years old</i>	35.2	35.3
Super Region	<i>New Regions (regions 1, 2, 5)</i>	33.9	34.3
	<i>Mature regions (regions 6, 9-12 and 16)</i>	30.6	31.6
	<i>Other regions (regions 3, 4, 7, 8)</i>	32.7	33.3

B. VARIANCE ESTIMATION

To calculate the standard errors (the squared roots of variances) of estimates for the 2002 HCSDb analyses, we used SUDAAN™ (Shah et al. 1996) and the Taylor series linearization method. For analysts who prefer a replication method, 60 replicate weights for jackknife replication are provided in the public use file. Here we describe variance estimation methods for the Taylor series linearization method and the jackknife replication method.

1. Taylor Series Linearization

MPR uses Taylor series linearization to produce standard errors for the estimates from the 2002 HCSDb for adults and children. For most sample designs, including the 2002 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 the 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 sampling design and includes variables recording stratum and the analysis weight for each record. MPR uses SAS to make camera-ready tables for numerical results from SUDAAN. There is no restriction to the number of strata in SUDAAN, so stratification effects can be incorporated in calculating standard errors.

Some of the reported estimates are composite scale scores that are linear functions of individual estimates. The sampling variance for these scale estimates can be directly obtained from the usual design-based variance estimation formula by incorporating the covariance terms among individual items within the scale.

(5)

$$\text{Let } \bar{y} = \frac{\sum_{h=1}^L \sum_{i=1}^{n_h} W_{hi} Y_{hi}}{\sum_h \sum_i W_{hi}}$$

denote an estimator of a composite scale where individual composite measure for beneficiary (h, i) consists of r items is thus denoted as:

(6)

$$Y_{hi} = \sum_{j=1}^r X_{hi,j} / r .$$

Then, a customary variance estimator of \bar{y} is the sum of the item variances and covariances among item estimates:

(7)

$$v(\bar{y}) = \frac{1}{r^2} \left\{ \sum_{j=1}^r v_j + \sum_{j \neq j'} \text{cov}(\bar{x}_j, \bar{x}_{j'}) \right\},$$

where v_j is a variance estimator of \bar{x}_j .

All of the variance components can be obtained from the usual survey specific software such as SUDAAN and WesVarPC, which are described above.

2. Jackknife Replication

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.

a. Calculation of Jackknife Replicates

A series of jackknife replicate weights are calculated and attached to each beneficiary record in the database. In jackknife replication, a prescribed number of replicates are generated by deleting selected cases from the full sample. Given jackknife replicate weights, WesVarPC[®] (Brick et al. 1996) can be used to produce variance estimates. WesVarPC allows jackknife variance estimation for two primary sampling units per stratum up to 100 strata, or up to 256 replicates without stratification. The 2002 HCSDB for children involves 27 strata. To use WesVarPC, we must modify the actual design to create appropriate replicates. The two options for doing this are to (1) form fewer than 256 replicates by ignoring stratification or (2) form replicates by assigning each unit to one of two pseudo primary sampling units (PSUs) within each of the 27 strata. For either option, the entire weighting process as described in the previous sections must be applied for each jackknife replicate.

To be consistent with the adult survey, we use option 1 to construct the jackknife replicates as follows. First, the entire file of sampled beneficiaries is sorted in sample selection order in which stratification variables are only used in the sorting process. Next, 60 mutually exclusive and exhaustive systematic subsamples¹ 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, the series of jackknife replicate weights (WRWT01 – WRWT60) is attached to the final data in order to construct jackknife replication variance estimates.

b. Software for Jackknife Replication

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 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 mean,

¹With 60 replicates, further statistical analyses such as confidence intervals and hypothesis tests can be based on an approximate normal distribution. Inferences with finite replicate numbers k are based on the student t distribution with $k-1$ degrees of freedom. Thus, with 60 replicates, normal approximation can be used in constructing confidence intervals or hypothesis testing.

proportion, 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 the child TRICARE Consumer Report statistical testing is done to show whether values in the report cards are statistically different from external benchmarks.

The null hypothesis for this significance test is that a mean value is essentially equal to the benchmark, and the alternative is that a mean value is different from the benchmark. 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 mature regions while μ_2 might represent the benchmark.

With large sample sizes, the estimator $\overline{y_1} - \overline{y_2}$ 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:

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

With $\alpha = 0.05$, the null hypothesis should be rejected if $|T| > 1.96$. The denominator of T, the standard error of $\overline{y_1} - \overline{y_2}$, can be calculated as the square root of the variance estimator $\sigma_{y_1-y_2}^2$:

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

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. With an external benchmark, the covariance can be assumed to be zero.

D. DEMOGRAPHIC ADJUSTMENTS

All scores in the report card are adjusted for children's and parent's characteristics affecting their scores.

The purpose of risk-adjustment is to make comparisons of outcomes, either internally or to external benchmarks, that control for characteristics of the respondent beyond the health care provider's

control. Based on previous work with CAHPS, it appears that ratings are affected by characteristics of children and their parents. Besides controlling for these factors, the methodology used:

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

A different model for each beneficiary group, l , is used for this adjustment:

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

where Y is a dependent variable, β_q 's are parameters to be estimated, A_q 's are parents' age dummy variables ($A_q = 1$ if the parent 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, $A_7 =$ age 75 and over) and P_l is the child's health status. The subscripts j and k refer to the region and beneficiary, respectively.

Given 3 super regions, the specification we use is:

$$\varepsilon_{jkl} = \delta_{0l} + \delta_{1l}R_{1j} + \delta_{2l}R_{2j} + w_{jkl},$$

where R_j 's are regional dummy variables ($R_j = 1$ if the beneficiary is in super region j and 0 otherwise).

The adjusted mean of the dependent variable Y for region j can be obtained as:

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

where $\hat{\beta}_q$'s are estimated model parameters, \hat{A}_q 's are weighted proportions of age group q among the MHS parent population, and \hat{P} is the weighted MHS mean health status. For beneficiary group l , the adjusted regional value is:

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

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

E. REPORTS

This section discusses the main purpose of the Child Consumer Reports. For further statistical and web specifications for the Child Consumer Reports, please refer to Appendices E and F.

1. 2002 Child TRICARE Consumer Report

a. Purpose

The purpose of the report is to provide Lead Agents and MTF commanders with a comprehensive description of TRICARE beneficiaries' satisfaction with their child's care relative to civilian benchmarks. The report provides an easy-to-understand snapshot of various aspects of the quality of care in the MHS. Users can easily "drill down" to follow the performance of providers among different enrollment and beneficiary groups.

b. Consumer Report Production

1) Programming Specifications

Data for the report are arranged in a SAS dataset and consist of summary records indexed by region, age group, and enrollment group. Benchmark records with no geographic reference are also included in the file. A summary record contains: mean composite scores, p-values for tests of difference from the relevant benchmark, a categorical variable describing the existence and direction of significant differences. Other records contain mean scores for individual elements of the composite. Benchmark records contain national mean values for a comparable population. Programs used to produce the report cards are in Appendix E.

2) Web Specifications

The SAS dataset serves as the basis for the electronic report. For the 2002 HCSDB, a single file contains all super regions and CONUS values. Current values are compared with values from past years. Specifications for the web design of the child consumer reports are in Appendix F.

REFERENCES

- Brick, J.M., P. Broene, P. James, and J. Severynse. *A User's Guide to WesVarPC*. Version 2.0. Rockville, MD: Westat, Inc., 1996.
- Brick, J.M. and G. Kalton. "Handling Missing Data in Survey Research." *Statistical Methods in Medical Research* 1996; 5: 215-238.
- CASRO. "On the Definition of Response Rates." A Special Report of the CASRO Task Force on Completion Rates, Lester R. Frankel, Chairman, and published by the Council of American Survey Research Organizations, June, 1982.
- Clusen, N.A., Friedman, E., 2002 "2002 Health Care Survey of DoD Beneficiaries: Child Sample Design." Mathematica Policy Research, Inc.: Washington, DC: 2000.
- Cochran, W.G., *Sampling Techniques*. Third Edition. New York: John Wiley & Sons, 1977.
- Lessler, J.T., and W.D. Kalsbeek, *Nonsampling Errors in Surveys*. New York: John Wiley & Sons, 1992.
- Shah, B.V., B.G. Barnwell, and G.S. Biele. SUDAAN User's Manual. Release 7.0 Research Triangle Park, NC: Research Triangle Institute, 1996.
- U.S. Department of Health and Human Services. *CAHPS 2.0 Survey and Reporting Kit*. Rockville, MD 1999.
- Wolter, Kirk M. *Introduction of Variance Estimation*. New York: Springer-Verlag. 1985.
- Woodruff, R.S. "A Simple Method for Approximating the Variance of a Complicated Estimate." *Journal of the American Statistical Association*, 1971.

APPENDIX A

ANNOTATED QUESTIONNAIRE

Health Care Survey of DoD Beneficiaries

Child Questionnaire



SURVEY INSTRUCTIONS

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

- Yes **Go to Question 1**
 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 Survey Processing Center
PO Box 82660
Lincoln, NE 68501-9462

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, Public Law 102-484, E.O. 9397.

Purpose: This survey helps health policy makers gauge beneficiary satisfaction with the current military healthcare 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 STARTS HERE—————

Please answer the questions for the child whose name appears on the envelope. Please do not answer for any other children.

1. Are you an adult responsible for the child listed on the envelope?

- Yes **Go to Question 2** No **Please give this questionnaire to a person responsible for that child.**

2. Which health plan did you use for all or most of your child's healthcare in the last 12 months? MARK ONLY ONE.

- TRICARE Prime
 TRICARE Extra/Standard (CHAMPUS)
 Federal Employees Health Benefit Program (FEHBP)
 Medicaid
 A civilian HMO (such as Kaiser)
 Other civilian health insurance (such as Blue Cross)
 Uniform Services Family Health Plan (USFHP)
 Not sure
 My child did not use any health plan in the last 12 months.

For the remainder of this questionnaire, the term health plan refers to the plan you marked in Question 2.

3. In the last 12 months, how many months in a row was your child enrolled in this health plan?

- Less than 2 months 7-12 months
 2-6 months Not enrolled in a health plan in the last 12 months.



0DCRJC2%
22430568



4. By which of the following health plans is your child currently covered? **MARK ALL THAT APPLY.**

- TRICARE Prime
- TRICARE Extra/Standard (CHAMPUS)
- Federal Employees Health Benefit Program (FEHBP)
- Medicaid
- A civilian HMO (such as Kaiser)
- Other civilian insurance (such as Blue Cross)
- Uniform Services Family Health Plan (USFHP)
- Not sure
- My child did not use any health plan in the last 12 months

_____YOUR CHILD'S PERSONAL DOCTOR OR NURSE_____

The next questions ask you about your child's healthcare. Do not include care your child got when he or she stayed overnight in a hospital. Do not include the times your child went for dental care visits.

5. A **personal doctor or nurse** is the health provider who knows your child 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 child's personal doctor or nurse? If your child has more than one personal doctor or nurse, choose the person your child sees most often.

- Yes No **Go to Question 9**

6. With the choices your child's health plan gave you, how much of a problem, if any, was it to get a personal doctor or nurse for your child you are happy with?

- A big problem Not a problem
 A small problem My child does not have a personal doctor or nurse. **Go to Question 9**

7. In the last 12 months, when your child went to his or her personal doctor or nurse's office or clinic, how often did the doctor or nurse talk with you about how your child is feeling, growing, or behaving?

- Never Usually My child doesn't have a personal doctor or nurse. **Go to Question 9**
 Sometimes Always

8. We want to know your rating of your child's personal doctor or nurse. If your child has more than one personal doctor or nurse, choose the person your child sees most often.

Use **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. How would you rate your child's personal doctor or nurse now?

- 0 Worst personal doctor or nurse possible
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 Best personal doctor or nurse possible
- My child doesn't have a personal doctor or nurse.

9. For members of TRICARE Prime, the primary point of contact regarding your child's health is called a primary care manager or PCM. This may be the same person as your child's personal doctor or nurse. Does your child have a TRICARE primary care manager?

- Yes **Go to Question 10** I don't know. **Go to Question 13**
 No **Go to Question 13** My child is not enrolled in TRICARE Prime. **Go to Question 13**

10. Do you know the name of your child's TRICARE Prime primary care manager?

- Yes No

11. In the last 12 months, how much of a problem was it for your child to see his or her TRICARE primary care manager?

- A big problem Not a problem
 A small problem My child doesn't have a TRICARE primary care manager. **Go to Question 13**

12. Is your child's TRICARE Prime primary care manager (PCM) based in a military or civilian facility?

- A primary care manager based at a military facility Not sure
 A primary care manager based at a civilian facility Not a member of TRICARE Prime.

—————GETTING HEALTHCARE FROM A SPECIALIST—————

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

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

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

- Yes No **Go to Question 18**

14. In the last 12 months, how much of a problem, if any, was it to get a referral to a specialist that your child needed to see?

- A big problem Not a problem
 A small problem My child did not see a specialist in the last 12 months.

15. In the last 12 months, did your child see a specialist?

- Yes No **Go to Question 18**



0DCRJC41
22430568



16. We want to know your rating of the specialist your child saw most often in the last 12 months, including a personal doctor if he or she was a specialist.

Use any number from 0 to 10 where 0 is the worst specialist possible and 10 is the best specialist possible. How would you rate your child's specialist?

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

17. In the last 12 months, was the specialist your child saw most often the same doctor as your child's personal doctor?

- Yes
- No
- My child doesn't have a personal doctor or didn't see a specialist in the last 12 months.

—————CALLING DOCTORS' OFFICES—————

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

- Yes
- No **Go to Question 20**

19. In the last 12 months, when you called during regular office hours, how often did you get the help you needed for your child?

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

—————YOUR CHILD'S HEALTHCARE IN THE LAST 12 MONTHS—————

A health provider could be a general doctor, a specialist doctor, a nurse practitioner, a physician assistant, a nurse, or anyone else your child would see for healthcare.

20. In the last 12 months, did you make any appointments for your child with a doctor or other health provider for regular or routine healthcare?

- Yes
- No **Go to Question 23**

21. In the last 12 months, how often did your child get an appointment for regular or routine healthcare as soon as you wanted?

- Never
- Sometimes
- Usually
- Always
- My child didn't need an appointment for regular or routine care in the last 12 months.

22. In the last 12 months, how many days did your child usually have to wait between making an appointment for regular or routine care and actually seeing a provider?
- Same day 8-14 days
 1 day 15-30 days
 2-3 days 31 days or longer
 4-7 days My child didn't need an appointment for regular or routine care in the last 12 months.
23. In the last 12 months, did your child have an illness or injury that needed care right away from a doctor's office, clinic, or emergency room?
- Yes No Go to Question 26
24. In the last 12 months, when your child needed care right away for an illness or injury, how often did your child get care as soon as you wanted?
- Never Always
 Sometimes My child didn't need care right away for an illness or injury in the last 12 months.
 Usually
25. In the last 12 months, how long did your child usually have to wait between trying to get care and actually seeing a provider for an illness or injury?
- Same day 8-14 days
 1 day 15 days or longer
 2-3 days My child didn't need to get care right away for an illness or injury in the last 12 months.
 4-7 days
26. In the last 12 months, did your child need an appointment for well-patient care, such as a physical exam or check-up?
- Yes No Go to Question 29
27. In the last 12 months, when your child needed an appointment for well-patient care, how often did your child get an appointment as soon as you wanted?
- Never Usually My child didn't need an appointment for well-patient care in the past 12 months.
 Sometimes Always
28. In the last 12 months, when your child needed an appointment for well-patient care, how long did your child have to wait between trying to get care and actually seeing a provider?
- Within 7 days More than 28 days
 8-14 days My child didn't need an appointment for well-patient care in the last 12 months.
 15-28 days
29. In the last 12 months, how many times did your child go to an emergency room?
- None 1 2-3 4-6 More than 6
30. In the last 12 months (not counting times your child went to an emergency room), how many times did your child go to a doctor's office or clinic?
- None Go to Question 43 1 2 3 4 5-9 10 or more



0DCRJC63
22430568



31. In the last 12 months, how much of a problem, if any, was it to get care for your child that you or a doctor believed necessary?

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

32. In the last 12 months, how much of a problem, if any, were delays in your child's healthcare while you waited for approval from your child's health plan?

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

33. In the last 12 months, how often did your child wait in the doctor's office or clinic more than 15 minutes past the appointment time to see the person your child went to see?

- Never Usually I don't know
 Sometimes Always My child had no visits in the last 12 months.

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

- Never Usually I don't know
 Sometimes Always My child had no visits in the last 12 months.

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

- Never Usually I don't know
 Sometimes Always My child had no visits in the last 12 months.

36. In the last 12 months, how often did your child's doctor or other health providers listen carefully to you?

- Never Usually I don't know
 Sometimes Always My child had no visits in the last 12 months.

37. In the last 12 months, how often did your child's doctor or other health providers explain things in a way you could understand?

- Never Usually I don't know
 Sometimes Always My child had no visits in the last 12 months.

38. In the last 12 months, how often did your child's doctor or other health providers show respect for what you had to say?

- Never Usually I don't know
 Sometimes Always My child had no visits in the last 12 months.

39. Is your child old enough to talk with doctors about his or her healthcare?

- Yes No Go to Question 41

40. In the last 12 months, how often did doctors or other health providers explain things in a way your child could understand?

- Never Always
 Sometimes I don't know
 Usually My child had no visits in the last 12 months or my child is not old enough to talk with doctors.

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

- Never Usually I don't know
 Sometimes Always My child had no visits in the last 12 months.

42. We want to know your rating of all your child's healthcare in the last 12 months from all doctors and other health providers.

Use any number from 0 to 10 where 0 is the worst healthcare possible and 10 is the best healthcare possible. How would you rate your child's healthcare?

- 0 Worst health care possible
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10 Best health care possible
 My child had no visits last 12 months.

43. In the last 12 months, what type of facility did your child go to most often for healthcare? Select the facility your child used most often.

Please mark only one answer

- A military facility - This includes: Military clinic, Military hospital, PRIMUS clinic, NAVCARE clinic
 A civilian facility - This includes: Civilian doctor's office, Civilian clinic, Hospital, Civilian TRICARE contractor
 Uniformed Services Family Plan Facility (USFHP)
 My child went to none of the listed types of facility in the last 12 months.

—————YOUR CHILD'S HEALTH PLAN—————

The next questions ask about your experience with your child's health plan. Your child's health plan is the one he or she used most in the last 12 months.

44. Claims are sent to a health plan for payment. You may send in your child's claims yourself, or doctors, hospitals, or others may do this for your child.

In the last 12 months, did you or anyone send in any claims for your child to your child's health plan?

- Yes No Go to Question 48 I don't know Go to Question 48

45. In the last 12 months, how often did your child's health plan handle your child's claims in a reasonable time?

- Never Usually I don't know.
 Sometimes Always No claims were sent to my child's health plan in the last 12 months.

46. In the last 12 months, how often did your child's health plan handle your child's claims correctly?

- Never Usually I don't know.
 Sometimes Always No claims were sent to my child's health plan in the last 12 months.



0DCRJC52
22430568



47. In the last 12 months, before your child went for care, how often did your child's health plan make it clear how much you would have to pay?
- Never Usually I don't know.
 Sometimes Always No claims were sent to my child's health plan in the last 12 months.
48. In the last 12 months, did you look for any information in written materials from your child's health plan?
- Yes No **Go to Question 50**
49. In the last 12 months, how much of a problem, if any, was it to find or understand information in the written materials?
- A big problem Not a problem
 A small problem I didn't look for information from my child's health plan in the last 12 months.
50. In the last 12 months, did you call the health plan's customer service to get information or help for your child?
- Yes No **Go to Question 52**
51. In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your child's health plan's customer service?
- A big problem Not a problem
 A small problem I didn't call my child's health plan's customer service in the last 12 months.
52. In the last 12 months, have you called or written your child's health plan with a complaint or problem?
- Yes No **Go to Question 55**
53. How long did it take for your child's health plan to resolve your complaint?
- Same day 4 or more weeks
 1 week I am still waiting for it to be settled. **Go to Question 55**
 2 weeks I haven't called or written with a complaint in the last 12 months. **Go to Question 55**
 3 weeks
54. Was your complaint or problem settled to your satisfaction?
- Yes I am still waiting for it to be settled.
 No I haven't called or written with a complaint in the last 12 months.
55. Paperwork means things like having your child's records changed, processing forms, or other paperwork related to getting care for your child.
- In the last 12 months, did you have any experiences with paperwork with your child's health plan?
- Yes No **Go to Question 57**
56. In the last 12 months, how much of a problem, if any, did you have with paperwork for your child's health plan?
- A big problem
 A small problem
 Not a problem
 I didn't have any experience with paperwork for my child's health plan in the last 12 months.

57. We want to know your rating of all your experience with your child's health plan.

Use any number from 0 to 10 where 0 is the worst health plan possible, and 10 is the best health plan possible. How would you rate your child's health plan now?

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

Please indicate the extent to which you agree or disagree with the following statements about TRICARE Prime:

- 58. TRICARE Prime makes it hard to get the health care services my child needs.
 Strongly Agree Agree Neither Agree nor Disagree Disagree Strongly Disagree
- 59. TRICARE Prime makes it hard for my child to see the health care provider I prefer.
 Strongly Agree Agree Neither Agree nor Disagree Disagree Strongly Disagree
- 60. TRICARE Prime's health benefits do not meet my child's needs.
 Strongly Agree Agree Neither Agree nor Disagree Disagree Strongly Disagree
- 61. TRICARE Prime provides high quality health care.
 Strongly Agree Agree Neither Agree nor Disagree Disagree Strongly Disagree

-----YOUR CHILD'S HEALTH-----

62. In general, how would you rate your child's overall health now?

- Excellent Very Good Good Fair Poor

A health condition could be physical, mental, or behavioral. Health conditions can affect a child's development, daily function, or need for services. Keep this in mind as you answer the following questions.

63. Does your child currently need or use medicine prescribed by a doctor (other than vitamins)?

- Yes No Go to Question 66

64. Is this because of a medical, behavioral, or other health condition?

- Yes No Go to Question 66



0DCRJC30
22430568



65. Is this because of a health condition that has lasted or is expected to last for at least 12 months?

Yes No

66. Does your child need or use more medical, mental health, or educational services than is usual for most children the same age?

Yes No Go to Question 69

67. Is this because of a medical, behavioral, or other health condition?

Yes No Go to Question 69

68. Is this because of a health condition that has lasted or is expected to last for at least 12 months?

Yes No

69. Is your child limited or prevented in any way in his or her ability to do the things most children of the same age can do?

Yes No Go to Question 72

70. Is this because of a medical, behavioral, or other health condition?

Yes No Go to Question 72

71. Is this because of a health condition that has lasted or is expected to last for at least 12 months?

Yes No

72. Does your child need to get special therapy, such as physical, occupational, or speech therapy?

Yes No Go to Question 75

73. Is this because of a medical, behavioral, or other health condition?

Yes No Go to Question 75

74. Is this because of a health condition that has lasted or is expected to last for at least 12 months?

Yes No

75. Does your child have any kind of emotional, developmental, or behavioral problem for which he or she needs or gets treatment or counseling?

Yes No Go to Question 77

76. Is this because of a health condition that has lasted or is expected to last for at least 12 months?

Yes No

77. When was the last time your child had a routine preventive care appointment, such as a physical examination or a well baby/child check-up?

- Less than 12 months ago 5 or more years ago
 1 -2 years ago Never had a physical examination or check-up.
 More than 2 but less than 5 years ago

—————ABOUT YOUR CHILD AND YOU—————

Information in this section will be used to study how different kinds of people view our healthcare system. This information will not be used to identify you.

78. What is your child's age right now?

- Less than 1 year 1-2 years 3-5 years 6-8 years 9-12 years 13-17 years

79. Is your child male or female?

- Male Female

80. Is your child of Hispanic or Latino origin or descent?

- Hispanic or Latino Not Hispanic or Latino

81. What is your child's race? PLEASE MARK ONE OR MORE.

- White Native Hawaiian or other Pacific Islander
 Black or African American American Indian or Alaska Native
 Asian

82. What is your age now?

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

83. Are you male or female?

- Male Female

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

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

85. How are you related to the child?

- Mother or father Aunt or uncle Legal guardian
 Grandparent Older brother or sister Other

THANK YOU

Please return the completed survey in the postage-paid envelope.



0DCRJC1+
22430568



APPENDIX B

CHILD SURVEY FIELDING MATERIALS

Sample Notification Letter



TRICARE
MANAGEMENT
ACTIVITY

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
HEALTH AFFAIRS
SKYLINE FIVE, SUITE 810, 5111 LEESBURG PIKE
FALLS CHURCH, VIRGINIA 22041-3206



June 10, 2002

#BWNHDJZ

** 0060421-A12345 **

|||||

TO THE PARENT OR GUARDIAN OF
JONATHON WILKENSONS I
1245 Q ST STE 400
LINCOLN, NE 68508-1430

Dear Parent/Guardian:

We need your help! The Department of Defense is very interested in what you think about your child's healthcare. In a few weeks, you will get the **2002 Health Care Survey of DoD Beneficiaries Child Questionnaire** that asks about your child's health care. By answering the survey questions, you will provide important information to help us improve the healthcare services for our entire military community. Your feedback will make a difference.

You are among only a few military beneficiaries who are being sent this survey, I hope you will take the time to fill it out and send it back in the enclosed envelope. Your responses are important to us even if your child does not receive his or her healthcare through the military healthcare system. Of course, what you have to say is private.

If your address above is incorrect, please telephone the Survey Operations Center at 1-800-866-1821 (within the U.S.) or call collect at 1-402-475-5003 (outside the U.S.) between the hours of 9:00 AM and 7:00 PM EST to give your correct address. You also can send this letter via facsimile with your correct address to 1-800-733-5751. All calls to these numbers are toll free.

Thank you in advance for your help!

Sincerely,

Thomas F. Carrato
Executive Director

Sample First Survey Cover Letter



TRICARE
MANAGEMENT
ACTIVITY

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
HEALTH AFFAIRS
SKYLINE FIVE, SUITE 810, 5111 LEESBURG PIKE
FALLS CHURCH, VIRGINIA 22041-3206



July 10, 2002

#BWNHDJZ

** 0107077-A12345 **

|||||
TO THE PARENT OR GUARDIAN OF
JONATHON WILKENSONS I
1245 Q ST STE 400
LINCOLN, NE 68508-1430

Dear Parent/Guardian:

We need your help! I am very interested in your opinions about your child's healthcare. Enclosed is the **2002 Health Care Survey of DoD Beneficiaries Child Questionnaire**. This is your opportunity to tell the Department of Defense how well your child's health care needs are being met. Your answers will provide important information to help us improve the healthcare services for our entire military community. Your feedback will make a difference.

You are among only a few military beneficiaries who are being sent this survey. To get accurate results, we need to get survey responses from you and others who were selected to complete this voluntary survey. Your responses are important to us even if your child does not receive his or her healthcare through the military healthcare system. Of course, what you have to say is private.

We hope you will take this chance to tell us about your child's healthcare. Please return the completed survey in the enclosed postage-paid envelope within the next 7 days. If your address above is incorrect, please telephone the Survey Operations Center at 1-800-866-1821 (within the U.S.) or call collect at 1-402-475-5003 (outside the U.S.) between the hours of 9:00 AM and 7:00 PM EST to give your correct address. You also can send this letter via facsimile with your correct address to 1-800-733-5751. All calls to these numbers are toll free.

Thank you in advance for your help!

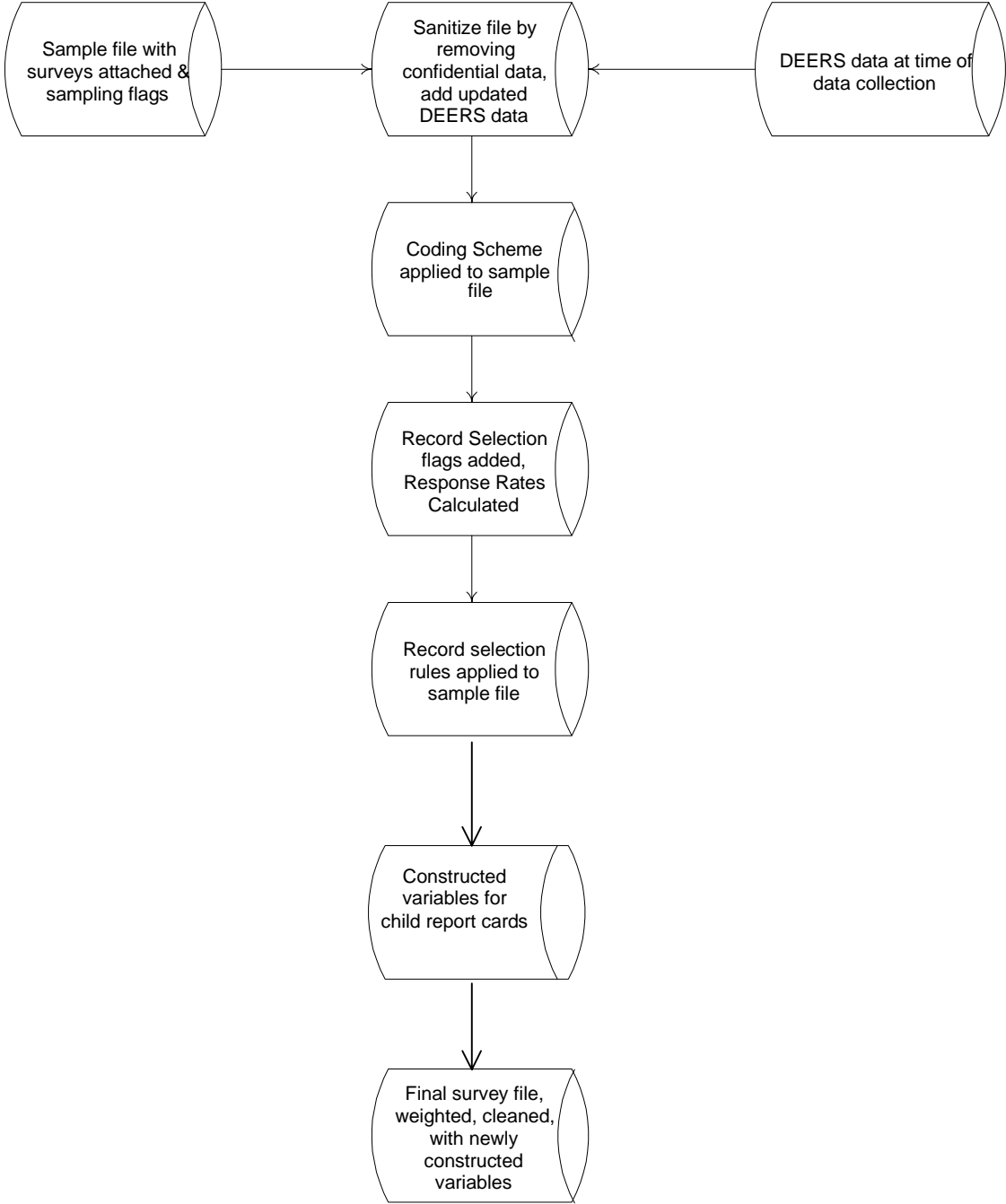
Sincerely,

Thomas F. Carrato
Executive Director

APPENDIX C

DATA PROCESSING ARCHITECTURE

**DATA
PROCESSING
ARCHITECTURE**



APPENDIX D

CHILD CODING SCHEME AND CODING TABLES

2002 HEALTH CARE SURVEY OF DOD BENEFICIARIES
CHILD QUESTIONNAIRE
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 not have been answered. It should have been skipped

Missing values ‘.’, multiple responses ‘.A’, and incomplete grids ‘.I’ are encoded prior to implementation of the Coding Scheme Notes (see below).

**Coding Table for Note 2:
C02005, C02006 – C02008**

N2	C02005 is:	C02006 – C02008 are:	C02005 is coded as:	C02006 – C02008 are coded as:	*
1	1: yes	At least one is “marked” or “all are blank”	Stands as original Value	Stand as original Value	
2	1: yes, missing, or multiple response	“Blank or NA”	2: No	.N, valid skip if missing; .C, question should be skipped if marked	B
3	2: no, missing, or multiple response	At least one is “marked”	1: yes	Stand as original value	B
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 -6	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2: no	.N, valid skip	B

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

Definition of “all are blank” in Coding Table for Note 2:

All responses to questions C02005 through C02008 are missing.

Definition of “blank or NA” in Coding Table for Note 2:

Responses to C02006 through C02008 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of “marked” in Coding Table for Note 2:

Any pattern of marks outside the definitions “all are blank,” and “blank or NA.”

**Coding Table for Note 3:
C02009 – C02012**

N3	C02009 is:	C02010 – C02012 are :	C02009 is coded as:	C02010 – C02012 Are:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value	
2	1: yes, missing, or multiple response	At least one is “marked”	1: yes	Stand as original value	B
3	1: yes, missing, or multiple response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
4	2: no, -5: I don’t know, or -6: not enrolled in Tricare Prime	“All are blank”	Stands as original value	.N, valid skip	F
5	2: no, -5: I don’t know, or -6: not enrolled in Tricare Prime	At least one is “marked”	1: yes	Stand as original value	B
6	2: no, -5: I don’t know, -6: not enrolled in Tricare Prime	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
7	Multiple response	“All are blank”	-5: I don’t know	.N, valid skip if missing; .C, question should be skipped if marked	B F
8	Missing response	“All are blank”	Stands as original value	Stand as original value	

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

Definition of “all are blank” in Coding Table for Note 3:

All responses to questions C02010 through C02012 are missing.

Definition of “blank or NA” in Coding Table for Note 3:

Responses to questions C02010 and C02012 are missing, the response to question C02011 is –6, “My child doesn’t have a TRICARE primary care manager.”

Definition of “marked” in Coding Table for Note 3:

Any pattern of marks outside of “all are blank” and “blank or NA.”

**Coding Table for Note 4:
C02013 – C02017**

N4	C02013 is:	C02014 -C02017 are:	C02013 is coded as:	C02014-C02017 are coded as:	*
1	1: yes	“At least one is “marked” or “all are blank,”	Stands as original value	Stand as original value	
2	1: yes, missing, or multiple response	“Blank or no usage or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no, missing, or multiple response	At least one is “marked”	1: yes	Stand as original value	F
4	2: no	“Blank or no usage or NA” or “all are blank”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2: no	.N, valid skip	B F

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

Definition of “all are blank” in Coding Table for Note 4:

All responses to questions C02014 through C02017 are missing.

Definition of “Blank or no usage or NA” in Coding Table for Note 4:

All of the following are true: C02015 is either ‘2’ or missing, C02014, C02016, C02017 are either not applicable or missing.

Definition of “marked” in Coding Table for Note 4:

Any pattern of marks outside of “all are blank,” and “Blank or NA.”

**Coding Table for Note 5:
C02018, C02019**

N5	C02018 is:	C02019 is :	C02018 is coded as:	C02019 is coded as:	*
1	1: yes	1-4: how often, missing, or multiple response	Stands as original value	Stands as original value	
2	1: yes, missing, or multiple response	-6: no calls	2: no	.C, question should be skipped	B F
3	2: no, missing or multiple response	1-4: how often or multiple response	1: yes	Stands as original value	B
4	2: no	-6: no calls, or missing response	Stands as original value	.N, valid skip	F
5	Missing response	Missing response	Stands as original value	Stands as original value	
6	Multiple response	Missing response	2: no	.N, valid skip	B

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

**Coding Table for Note 6:
C02020 – C02022**

N6	C02020 is:	C02021 & C02022 are:	C02020 is coded as:	C02021 & C02022 are coded as:	*
1	1: yes	“All are blank” or at least one is “marked”	Stands as original value	Stand as original value	
2	1: yes, missing, or multiple response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no, missing or multiple response	At least one is “marked”	1: yes	Stand as original value	B
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	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2: no	.N, valid skip	B

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

Definition of “all are blank” in Coding Table for Note 6:
Responses to question C02021 and C02022 are both missing.

Definition of “blank or NA” in Coding Table for Note 6:
Responses to questions C02021 and C02022 are either both not applicable (–6), or a combination of not applicable (–6) and missing.

Definition of “marked” in Coding Table for Note 6:
Any pattern of marks outside “all are blank” or “blank or NA.”

**Coding Table for Note 7:
C02023 – C02025**

N7	C02023 is:	C02024 & C02025 are:	C02023 is coded as:	C02024 & C02025 are coded as:	*
1	1: yes	“All are blank” or at least one is “marked”	Stands as original value	Stand as original value	
2	1: yes, missing, or multiple response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no, missing or multiple response	At least one is “marked”	1: yes	Stand as original value	B
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	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2: no	.N, valid skip	B

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

Definition of “all are blank” in Coding Table for Note 7:
Responses to question C02024 and C02025 are both missing.

Definition of “blank or NA” in Coding Table for Note 7:
Responses to questions C02024 and C02025 are either both not applicable (-6), or a combination of not applicable (-6) and missing.

Definition of “marked” in Coding Table for Note 7:
Any pattern of marks outside “all are blank” or “blank or NA.”

**Coding Table for Note 8:
C02026 – C02028**

N8	C02026 is:	C02027 & C02028 are:	C02026 is coded as:	C02027 & C02028 are coded as:	*
1	1: yes	“All are blank” or at least one is “marked”	Stands as original value	Stand as original value	
2	1: yes, missing, or multiple response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no, missing or multiple response	At least one is “marked”	1: yes	Stand as original value	B
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	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2: no	.N, valid skip	B

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

Definition of “all are blank” in Coding Table for Note 8:
Responses to question C02027 and C02028 are both missing.

Definition of “blank or NA” in Coding Table for Note 8:
Responses to questions C02027 and C02028 are either both not applicable (-6), or a combination of not applicable (-6) and missing.

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

**Coding Table for Note 9:
C02030, C02031 -- C02042**

N9	C02030 is:	C02031 – C02042 are:	C02030 is coded as:	C02031 -- C02042 are coded as:	*
1	1: none	“Blank or No Usage or NA” or “all are blank”	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
2	1, missing or multiple response	At least one is “marked”	Stands as original value	Stands as original value	
3	>=2	At least one is “marked” or “all are blank”	Stands as original value	Stand as original value	
4	>=2, missing, or multiple response	“Blank or No Usage or NA”	1: none	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	1: none	.N, valid skip	B

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

Definition of “all are blank” in Coding Table for Note 9:

All responses to questions C02031 through C02042 are missing.

Definition of “blank or no usage or NA” in Coding Table for Note 9:

All of the following are true: C02031 – C02038, C02040 – C02042 are either not applicable (-6), or a combination of not applicable (-6) and missing, and C02039 is any value or missing.

Definition of “marked” in Coding Table for Note 9:

Any pattern of marks outside the definitions “all are blank” and “blank or no usage or NA.”

**Coding Table for Note 10:
C02039, C02040**

N10	C02039 is:	C02040 is:	C02039 is coded as:	C02040 is coded as:	*
1	.N, valid skip or .C, question should not have been answered	.N, valid skip or .C, question should not have been answered	Stands as original value	Stands as original value	
2	1: yes	Missing	Stands as original value	Stands as original value	
3	1: yes	-6: not applicable	.C, question should be skipped	.C, question should be skipped	B F
4	1: yes, missing, or multiple response	Any mark but -6: not applicable	1: yes	Stands as original value	B
5	Missing or multiple response	-6: not applicable	2: no	.C, question should be skipped	B F
6	2: no	Any mark but -6: not applicable	1: yes	Stands as original value	B
7	2: no	Missing or -6: not applicable	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing	Missing	Stands as original value	Stands as original value	
9	Multiple response	Missing	2: no	.N, valid skip	B

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

**Coding Table for Note 11:
C02044, C02045 -- C02047**

N11	C02044 Is:	C02045 -- C02047 are:	C02044 is coded as:	C02045 – C02047 are coded as:	*
1	1: yes	At least one is “marked” or “all are blank”	Stands as original value	Stand as original value	
2	1: yes, -6: don’t know, missing, or multiple response	“All are NA” or “Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no, -6: don’t know, missing, or multiple response	At least one is “marked”	1: yes	Stand as original value	B
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	2: no	“All are NA”	Stands as original value	.C, question should be skipped	F
6	Missing response	“All are blank”	Stands as original value	Stands as original value	
7	Multiple response	“All are blank”	2: no	.N, valid skip	B F
8	-6: Don’t know	“All are blank”	Stands as original value	.N, valid skip	F

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

Definition of “all are blank” in Coding Table for Note 11:

All responses to questions C02045 through C02047 are missing.

Definition of “all are NA” in Coding Table for Note 11:

All responses to questions C02045 through C02047 are “No claims were sent to the health plan in the past 12 months”, i.e. not applicable (-6).

Definition of “blank or NA” in Coding Table for Note 11:

Responses to C02045 through C02047 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of “marked” in Coding Table for Note 11:

Any pattern of marks outside the definitions “all are blank”, “all are NA”, and “blank or NA”

**Coding Table for Note 12:
C02048, C02049**

N12	C02048 is:	C02049 is:	C02048 is coded as:	C02049 is coded as:	*
1	1: yes	1-3: categorize problem, missing, or multiple response	Stands as original value	Stands as original value	
2	1: yes, missing, or multiple response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no, missing, or multiple response	1-3: categorize problem, or multiple response	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	
6	Multiple response	Missing response	2: no	.N, valid skip	B

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

**Coding Table for Note 13:
C02050, C02051**

N13	C02050 is:	C02051 is :	C02050 is coded as:	C02051 is coded as:	*
1	1: yes	1-3: categorize problem, missing, or multiple response	Stands as original value	Stands as original value	
2	1: yes, missing, or multiple response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no, missing, or multiple response	1-3: categorize problem, or multiple response	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	
6	Multiple response	Missing response	2: no	.N, valid skip	B

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

**Coding Table for Note 14:
C02052 – C02054**

N14	C02052 is:	C02053 & C02054 are:	C02052 is coded as:	C02053 & C02054 are coded as:	*
1	1: yes	“All are blank” or at least one is “marked”	Stands as original value	Stand as original value	
2	1: yes, missing, or multiple response	“Blank or NA”	2: no	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no, missing or multiple response	At least one is “marked”	1: yes	Stand as original value	B
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	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2: no	.N, valid skip	B

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

Definition of “all are blank” in Coding Table for Note 14:
Responses to question C02053 and C02054 are both missing.

Definition of “blank or NA” in Coding Table for Note 14:
Responses to questions C02053 and C02054 are either both not applicable (-6), or a combination of not applicable (-6) and missing.

Definition of “marked” in Coding Table for Note 14:
Any pattern of marks outside “all are blank” or “blank or NA.”

**Coding Table for Note 15:
C02055, C02056**

N15	C02055 is:	C02056 is :	C02055 is coded as:	C02056 is coded as:	*
1	1: yes	1-3: categorize problem, missing, or multiple response	Stands as original value	Stands as original value	
2	1: yes, missing, or multiple response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no, missing, or multiple response	1-3: categorize problem, or multiple response	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	
6	Multiple response	Missing response	2: no	.N, valid skip	B

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

**Coding Table for Note 16:
C02063, C02064 & C02065**

N16	C02063 is:	C02064 & C02065 Are:	C02063 is coded as:	C02064 & C02065 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value	
2	1: yes, missing or multiple response	At least one is “marked” or “blank or no”	1:yes	Stand as original value	B
3	2: no	At least one is “marked”	1: yes	Stand as original value	F
4	2: no	“All are blank” or “blank or no”	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2:no	.N, valid skip if missing .C, question should be skipped if marked	B F

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

Definition of “all are blank” in Coding Table for Note 16:
Responses to question C02064 and C02065 are both missing.

Definition of “blank or no” in Coding Table for Note 16:
Responses to questions C02064 and C02065 are either both no (2), or a combination of no (2) and missing.

Definition of “marked” in Coding Table for Note 16:
Any pattern of marks outside “all are blank” or “blank or NA.”

**Coding Table for Note 17:
C02066, C02067 & C02068**

N17	C02066 is:	C02067 & C02068 are:	C02066 is coded as:	C02067 & C02068 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value	
2	1: yes, missing or multiple response	At least one is “marked” or “blank or no”	1:yes	Stand as original value	B
3	2: no	At least one is “marked”	1: yes	Stand as original value	F
4	2: no	“All are blank” or “blank or no”	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2:no	.N, valid skip if missing .C, question should be skipped if marked	B F

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

Definition of “all are blank” in Coding Table for Note 17:
Responses to question C02067 and C02068 are both missing.

Definition of “blank or no” in Coding Table for Note 17:
Responses to questions C02067 and C02068 are either both no (2), or a combination of no (2) and missing.

Definition of “marked” in Coding Table for Note 17:
Any pattern of marks outside “all are blank” or “blank or NA.”

**Coding Table for Note 18:
C02069, C02070 & C02071**

N18	C02069 is:	C02070 & C02071 are :	C02069 is coded as:	C02070 & C02071 are coded as:	*
1	1: yes	“All are blank”	Stands as original value	Stand as original value	
2	1: yes, missing or multiple response	At least one is “marked” or “blank or no”	1:yes	Stand as original value	B
3	2: no	At least one is “marked”	1: yes	Stand as original value	F
4	2: no	“All are blank” or “blank or no”	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2:no	.N, valid skip if missing .C, question should be skipped if marked	B F

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

Definition of “all are blank” in Coding Table for Note 18:
Responses to question C02070 and C02071 are both missing.

Definition of “blank or no” in Coding Table for Note 18:
Responses to questions C02070 and C02071 are either both no (2), or a combination of no (2) and missing.

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

**Coding Table for Note 19:
C02072, C02073 & C02074**

N19	C02072 is:	C02073 & C02074 are :	C02072 is coded as:	C02073 & C02074 are coded as:	*
1	1: yes	“All are blank” or “blank or no”	Stands as original value	Stand as original value	
2	1: yes, missing or multiple response	At least one is “marked” or “blank or no”	1:yes	Stand as original value	B
3	2: no	At least one is “marked”	1: yes	Stand as original value	F
4	2: no	“All are blank” or “blank or no”	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	Missing response	“All are blank”	Stands as original value	Stand as original value	
6	Multiple response	“All are blank”	2:no	.N, valid skip if missing	B F

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

Definition of “all are blank” in Coding Table for Note 19:
Responses to question C02073 and C02074 are both missing.

Definition of “blank or no” in Coding Table for Note 19:
Responses to questions C02073 and C02074 are either both no (2), or a combination of no (2) and missing.

Definition of “marked” in Coding Table for Note 19:
Any pattern of marks outside “all are blank” or “blank or NA.”

**Coding Table for Note 20:
C02075, C02076**

N20	C02075 is:	C02076 is :	C02075 is coded as:	C02076 is coded as:	*
1	1: yes	Marked , missing, or multiple response	Stands as original value	Stands as original value	F
2	2: no	Missing response	Stands as original value	.N, valid skip	
3	2: no, missing or multiple response	1: yes, 2: no, or multiple response	1: yes	Stands as original value	B
4	Missing	Missing	Stands as original value	Stands as original value	
5	Multiple response	Missing	2: no	.N, valid skip	B

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

APPENDIX E

SAS CODE FOR CHILD CONSUMER REPORTS

1. CREATE VARIABLES FOR CHILD TRICARE CONSUMER REPORTS

```
*****
*
* PROJECT: DoD - Annual Child Report Cards
* PROGRAM: STEP1C.SAS
* PURPOSE: Create Dummy and Recode Variables used in Child Report Card
*          Create a Female dummy variable
*          Create an Education dummy variable
*          Create 3 super region dummy variables.
*          Create 3 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 = 1 AND C02003=4 THEN GROUP1 = 1;
*          IF XENR_PCM = 1 AND C02003=4 THEN GROUP2 = 1;
*          IF XENR_PCM = 2 AND C02003=4 THEN GROUP3 = 1;
*          IF XINS_COV IN (2,3) THEN GROUP4 = 1;
*          IF AGEUND6 = 1 THEN GROUP5 = 1;
*          IF AGE0612 = 1 THEN GROUP6 = 1;
*          IF AGE1317 = 1 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 for 3rd quarter
*           2000 child report cards.
*           3) october 2002 By Mike Scott, Updated for 3rd quarter
*           2002 child report cards.
*
* INPUTS: 1) HCS02C_1.SD2 - DoD Q3 2002 HCS Database
*
* OUTPUTS: 1) GROUP1-8.SD2 - DoD Q3 2002 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
*
*****;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMterr NOOVP COMPRESS=YES;
LIBNAME OUT "DATA";
LIBNAME IN1 "..\..\..\DATA\CFINAL";

TITLE1 'Program Saved as: STEP1C.SAS';

DATA ENTIRE;
  SET IN1.HCS02C_1(KEEP=
    MPRID
    DAGEQY
    FIELDAGE
    REGSMPL
```

```

SUPREG
CONUS
ENBGSMPL
C02084 /* Parent Education Level */
C02079 /* Childs Sex Reported by Parent */
SEXSMPL /* Childs Sex from DEERS file */
XBNFGRP
STRATUM
POSTSTR
XINS_COV
XENR_PCM
WRWT
/* Getting Needed Care */
C02006
C02014
C02031
C02032
/* Getting Care Quickly */
C02019
C02021
C02024
C02033
/* How Well Doctors Communicate */
C02036
C02037
C02038
C02040
C02041
/* Courteous and Helpful Office Staff */
C02034
C02035
/* Customer Service */
C02049
C02051
C02056
/* Claims Processing */
C02045
C02046
/*******/
C02042 /* Health Care Rating */
C02057 /* Health Plan Rating */
C02008 /* Personal Doctor Rating */
C02016 /* Specialist Rating */
C02003 /* How Long in Health Plan */
C02062 /* Health Status */
C02082 /* Parents Age */
/*******/
);
FORMAT _ALL_;
IF SUPREG = . THEN DELETE;
*****
* For now (8-24-2001) the plan is NOT to limit the subset to TRICARE;
* IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;
*****;
/* Note: use tmp_cell in step2c.sas */
LENGTH TMP_CELL 8;
TMP_CELL = POSTSTR;
RUN;

```

```

*****
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
* subsets. Create the region dummies.
*****;
DATA ENTIRE;
  SET ENTIRE;
  LENGTH DEFAULT = 4;
  *****
  * Create child AGE dummies using MPR-calculated child AGE at
  * start of fielding period.
  *****;
  IF FIELDAGE NE " " THEN DO;
    AGEUND6 = 0;
    AGE0612 = 0;
    AGE1317 = 0;

    IF      (FIELDAGE < 6)          THEN AGEUND6 = 1;
    ELSE IF (6 <= FIELDAGE <= 12) THEN AGE0612 = 1;
    ELSE IF (13 <= FIELDAGE <= 17) THEN AGE1317 = 1;
  END;

  *****
  * Create parent AGE dummies using item response. These dummy variables
  * will be used to adjust the scores based on the parents age.
  *****;
  IF 1 <= C02082 <= 8 THEN DO;
    AGEUND18 = 0; AGE1824 = 0; AGE2534 = 0; AGE3544 = 0;
    AGE4554 = 0; AGE5564 = 0; AGE6574 = 0; AGE75UP = 0;
    IF      C02082 = 1 THEN AGEUND18 = 1;
    ELSE IF C02082 = 2 THEN AGE1824 = 1;
    ELSE IF C02082 = 3 THEN AGE2534 = 1;
    ELSE IF C02082 = 4 THEN AGE3544 = 1;
    ELSE IF C02082 = 5 THEN AGE4554 = 1;
    ELSE IF C02082 = 6 THEN AGE5564 = 1;
    ELSE IF C02082 = 7 THEN AGE6574 = 1;
    ELSE IF C02082 = 8 THEN AGE75UP = 1;
  END;

  *****
  * Create the FEMALE dummy variable based on childs sex reported by parent.
  *****;
  IF C02079 = 2 OR SEXSMPL = 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 = 1 AND C02003=4) THEN GROUP1 = 1;
IF (XENR_PCM = 1 AND C02003=4) THEN GROUP2 = 1;
IF (XENR_PCM = 2 AND C02003=4) THEN GROUP3 = 1;
IF XINS_COV IN (2,3) THEN GROUP4 = 1;
IF AGEUND6 = 1 THEN GROUP5 = 1;
IF AGE0612 = 1 THEN GROUP6 = 1;
IF AGE1317 = 1 THEN GROUP7 = 1;
    if C02033 =4 then C02033=1;
else if C02033=3 then C02033=2;
else if C02033=2 then C02033=3;
else if C02033=1 then C02033=4;

*-----;
* 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      C02045 = 1 THEN R02045 = 1;
ELSE IF C02045 = 2 THEN R02045 = 1;
ELSE IF C02045 = 3 THEN R02045 = 2;
ELSE IF C02045 = 4 THEN R02045 = 3;
ELSE IF C02045 < 0 THEN R02045 = .;

IF      C02046 = 1 THEN R02046 = 1;
ELSE IF C02046 = 2 THEN R02046 = 1;
ELSE IF C02046 = 3 THEN R02046 = 2;
ELSE IF C02046 = 4 THEN R02046 = 3;
ELSE IF C02046 < 0 THEN R02046 = .;

IF      C02019 = 1 THEN R02019 = 1;
ELSE IF C02019 = 2 THEN R02019 = 1;
ELSE IF C02019 = 3 THEN R02019 = 2;
ELSE IF C02019 = 4 THEN R02019 = 3;
ELSE IF C02019 < 0 THEN R02019 = .;

IF      C02021 = 1 THEN R02021 = 1;
ELSE IF C02021 = 2 THEN R02021 = 1;
ELSE IF C02021 = 3 THEN R02021 = 2;
ELSE IF C02021 = 4 THEN R02021 = 3;
ELSE IF C02021 < 0 THEN R02021 = .;

IF      C02024 = 1 THEN R02024 = 1;
ELSE IF C02024 = 2 THEN R02024 = 1;
ELSE IF C02024 = 3 THEN R02024 = 2;
ELSE IF C02024 = 4 THEN R02024 = 3;
ELSE IF C02024 < 0 THEN R02024 = .;

IF      C02033 = 1 THEN R02033 = 1;
ELSE IF C02033 = 2 THEN R02033 = 1;
ELSE IF C02033 = 3 THEN R02033 = 2;
ELSE IF C02033 = 4 THEN R02033 = 3;
ELSE IF C02033 < 0 THEN R02033 = .;

IF      C02036 = 1 THEN R02036 = 1;
ELSE IF C02036 = 2 THEN R02036 = 1;
ELSE IF C02036 = 3 THEN R02036 = 2;

```

```
ELSE IF C02036 = 4 THEN R02036 = 3;
ELSE IF C02036 < 0 THEN R02036 = .;
```

```
IF C02037 = 1 THEN R02037 = 1;
ELSE IF C02037 = 2 THEN R02037 = 1;
ELSE IF C02037 = 3 THEN R02037 = 2;
ELSE IF C02037 = 4 THEN R02037 = 3;
ELSE IF C02037 < 0 THEN R02037 = .;
```

```
IF C02038 = 1 THEN R02038 = 1;
ELSE IF C02038 = 2 THEN R02038 = 1;
ELSE IF C02038 = 3 THEN R02038 = 2;
ELSE IF C02038 = 4 THEN R02038 = 3;
ELSE IF C02038 < 0 THEN R02038 = .;
```

```
IF C02040 = 1 THEN R02040 = 1;
ELSE IF C02040 = 2 THEN R02040 = 1;
ELSE IF C02040 = 3 THEN R02040 = 2;
ELSE IF C02040 = 4 THEN R02040 = 3;
ELSE IF C02040 < 0 THEN R02040 = .;
```

```
IF C02041 = 1 THEN R02041 = 1;
ELSE IF C02041 = 2 THEN R02041 = 1;
ELSE IF C02041 = 3 THEN R02041 = 2;
ELSE IF C02041 = 4 THEN R02041 = 3;
ELSE IF C02041 < 0 THEN R02041 = .;
```

```
IF C02034 = 1 THEN R02034 = 1;
ELSE IF C02034 = 2 THEN R02034 = 1;
ELSE IF C02034 = 3 THEN R02034 = 2;
ELSE IF C02034 = 4 THEN R02034 = 3;
ELSE IF C02034 < 0 THEN R02034 = .;
```

```
IF C02035 = 1 THEN R02035 = 1;
ELSE IF C02035 = 2 THEN R02035 = 1;
ELSE IF C02035 = 3 THEN R02035 = 2;
ELSE IF C02035 = 4 THEN R02035 = 3;
ELSE IF C02035 < 0 THEN R02035 = .;
```

```
*-----;
* Recode how long in health plan and childs health status
*-----;
```

```
R02003 = C02003; IF R02003 < 0 THEN R02003 = .;
R02062 = C02062; IF R02062 < 0 THEN R02062 = .;
```

```
*-----;
* Recode B/S/N variables to one missing condition ".";
*-----;
```

```
R02006 = C02006; IF R02006 < 0 THEN R02006 = .;
R02014 = C02014; IF R02014 < 0 THEN R02014 = .;
R02031 = C02031; IF R02031 < 0 THEN R02031 = .;
R02032 = C02032; IF R02032 < 0 THEN R02032 = .;
R02049 = C02049; IF R02049 < 0 THEN R02049 = .;
R02051 = C02051; IF R02051 < 0 THEN R02051 = .;
R02056 = C02056; IF R02056 < 0 THEN R02056 = .;
```

```
*-----;
* Recode the CAHPS rating variables.
```



```

*-----;
R02042 = C02042; IF R02042 < 0 THEN R02042 = .; *Health Care;
R02008 = C02008; IF R02008 < 0 THEN R02008 = .; *Personal Doctor;
R02057 = C02057; IF R02057 < 0 THEN R02057 = .; *Health Plan;
R02016 = C02016; IF R02016 < 0 THEN R02016 = .; *Specialty Care;

*****
* Create super region dummies.
*****;
IF SUPREG NE . THEN DO;
  ARRAY REGDUMS (3) REG01 REG02 REG03;
  DO I = 1 TO DIM(REGDUMS);
    REGDUMS(I)=0;
  END;

  IF SUPREG = 1 THEN REG01 = 1;
  ELSE IF SUPREG = 2 THEN REG02 = 1;
  ELSE IF SUPREG = 3 THEN REG03 = 1;
END;
RUN;

*****
* Recode item responses to proportional values using CONVERT.SAS.
*****;
%INCLUDE "J:\8687\PROGRAMS\REPORTCARDS\CONVERT.SAS";

%CONT1(DSN=ENTIRE, NUM=7, Y=R02006 R02014 R02031 R02032
      R02049 R02051 R02056);

%CONT2(DSN=ENTIRE, NUM=4, Y=R02042 R02057 R02008 R02016);

%CONT3(DSN=ENTIRE, NUM=13, Y=R02019 R02021 R02024 R02033
      R02036 R02037 R02038 R02040
      R02041 R02034 R02035 R02045 R02046);

*****
* 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 key information.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print some of the key information';
  VAR MPRID
      DAGEQY
      FIELDAGE
      REGSMPL
      SUPREG
      CONUS

```

```

ENBGSMPL
C02084 /* Parent Education Level */
C02079 /* Childs Sex Reported by Parent */
SEXSMPL /* Childs Sex from DEERS file */
STRATUM
POSTSTR
XINS_COV
XENR_PCM
WRWT
;
RUN;

*****
* Print AGE and SEX dummy variables.
*****;
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE, SEX and GROUP dummies';
  VAR DAGEQY /* Childs Age Group */
      FIELDAGE /* Childs Age at start of fielding period */
      AGEUND6
      AGE0612
      AGE1317

      C02082 /* Parents Age Group used for adjustment purposes */
      AGEUND18
      AGE1824
      AGE2534
      AGE3544
      AGE4554
      AGE5564
      AGE6574
      AGE75UP

      C02079
      FEMALE
      SEXSMPL

  ENBGSMPL
  XINS_COV
  XENR_PCM
  XBNFGRP
  GROUP1
  GROUP2
  GROUP3
  GROUP4
  GROUP5
  GROUP6
  GROUP7
;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded REGION variables';
  VAR REGSMPL
      SUPREG
      REG01
      REG02
      REG03

```

```

;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of Childs Age Group variables';
  TABLES FIELDAGE*(AGEUND6 AGE0612 AGE1317)
  /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of Parents Age Group variables used for adjustment purposes';
  TABLES
  C02082*(AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574 AGE75UP)
  /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Getting Needed Care';
  TABLES C02006*R02006
          C02014*R02014
          C02031*R02031
          C02032*R02032
  /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Getting Care Quickly';
  TABLES C02019*R02019
          C02021*R02021
          C02024*R02024
          C02033*R02033
  /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: How Well Doctors Communicate';
  TABLES C02036*R02036
          C02037*R02037
          C02038*R02038
          C02040*R02040
          C02041*R02041
  /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Courteous and Helpful Office
Staff';
  TABLES C02034*R02034
          C02035*R02035
  /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Customer Service';
  TABLES C02049*R02049
          C02051*R02051
          C02056*R02056
  /MISSING LIST;

```

```

RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Claims Processing';
  TABLES C02045*R02045
          C02046*R02046
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: Ratings';
  TABLES C02042*R02042
          C02057*R02057
          C02008*R02008
          C02016*R02016
          /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
  TITLE2 'FREQ of recoded question variables: How long in health plan and
health status';
  TABLES C02003*R02003
          C02062*R02062
          /MISSING LIST;
RUN;

*****
* Create the 7 subgroups for processing by STEP2C.SAS.
*****;

DATA OUT.GROUP1
      OUT.GROUP2
      OUT.GROUP3
      OUT.GROUP4
      OUT.GROUP5
      OUT.GROUP6
      OUT.GROUP7
      OUT.GROUP8;

  SET ENTIRE;

  DROP C02006
        C02014
        C02031
        C02032
        C02019
        C02021
        C02024
        C02033
        C02036
        C02037
        C02038
        C02040
        C02041
        C02034
        C02035
        C02049
        C02051
        C02056

```

```
C02045
C02046
C02042
C02057
C02008
C02016
C02003
C02062
;
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;
```

2. CALCULATE CAHPS ADJUSTED SCORES

```

/*****
/* Project: DoD - 2002 Child Report Cards
/* Program: STEP2C.SAS
/* Purpose: 2002 Child Report Card
/* Requires program STEP1C.SAS to have been run
/*
/* Modified: 1) August 2001 By Keith Rathbun, Updated for Q3 2000
/*           Child Report Cards.
/*           2) October 2002 By Mike Scott, Updated for Q3 2002
/*           Child Report Cards. Changed INTERCEP to INTERCEPT.
/*           Added V612 to LIBNAME statements.
/*
/* Programming specifications for Child report card
/* The Child 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
/*
/* SUBGROUPS
/*
/* -----
/*     Seven subgroups           Definitions
/* -----
/* 1. Prime enrollees           XINS_COV IN(1,2,6) AND C02003=4
/* 2. Enrollees w/mil PCM       XENR_PCM IN(2,6)   AND C02003=4
/* 3. Enrollees w/civ PCM       XENR_PCM = 3      AND C02003=4
/* 4. Nonenrollees             XINS_COV IN(3,4,5)
/* 5. Active duty               AGEUND6=1
/* 6. Active duty dependents    AGE0612=1
/* 7. Retirees and dependents   AGE1317=1
/*
/* PREV PGM: STEP1C.SAS
/*****/
OPTIONS NOCENTER LS=132 PS=78 SOURCE NOOVP COMPRESS=YES;
*OPTIONS NOCENTER LS=132 PS=78 SOURCE NOOVP MPRINT MLOGIC SYMBOLGEN STIMER;
LIBNAME IN1 V612 "DATA";
LIBNAME IN2 V612 "..\..\..\DATA\CFINAL";
LIBNAME OUT V612 "DATA";
LIBNAME OUT2 V612 "DATA\CHILDHATFILES";

*-----;
*-      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 = 24;
```

```

* set the number of subgroups to process;
%LET MIN_GRP = 1;
%LET MAX_GRP = 8;

* I expect these to remain the same for;
* a particular dependent variable run;
%LET WGT      = WRWT;
%LET IND_VAR1 = R02062;
%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 = Under Age 6;
%LET TITL6 = Age 6-12;
%LET TITL7 = Age 13-17;
%LET TITL8 = All major groups;

%* GETTING NEEDED CARE;
%LET DEPVAR1 = R02006;
%LET DEPVAR2 = R02014;
%LET DEPVAR3 = R02031;
%LET DEPVAR4 = R02032;

%* GETTING CARE QUICKLY;
%LET DEPVAR5 = R02019;
%LET DEPVAR6 = R02021;
%LET DEPVAR7 = R02024;
%LET DEPVAR8 = R02033;

%* HOW WELL DOCTORS COMMUNICATE;
%LET DEPVAR9  = R02036;
%LET DEPVAR10 = R02037;
%LET DEPVAR11 = R02038;
%LET DEPVAR12 = R02040;
%LET DEPVAR13 = R02041;

%* COURTEOUS AND HELPFUL OFFICE STAFF;
%LET DEPVAR14 = R02034;
%LET DEPVAR15 = R02035;

%* CUSTOMER SERVICE;
%LET DEPVAR16 = R02049;
%LET DEPVAR17 = R02051;
%LET DEPVAR18 = R02056;

%* CLAIMS PROCESSING;
%LET DEPVAR19 = R02045;
%LET DEPVAR20 = R02046;

%* RATING ALL HEALTH CARE: 0 - 10;
%LET DEPVAR21 = R02042;

```

```

%* RATING OF HEALTH PLAN: 0 - 10;
%LET DEPVAR22 = R02057;

%* RATING OF PERSONAL DR: 0 - 10;
%LET DEPVAR23 = R02008;

%* RATING OF SPECIALIST: 0 - 10;
%LET DEPVAR24 = R02016;

%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 = IN2.SKELREG;

* run regression using the region level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
    TITLE2 "Regression Model for GROUP&igrp for regions";
    TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    WEIGHT &WGT;
    %INCLUDE 'REGSREG.INC';
    OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP_CELL
        PRED&IGRP RESID&IGRP SUPREG &&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 SUPREG &&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=SUPREG NEWADJUST);
    SET ADJUST;
    %INCLUDE 'REGARRAY.INC';
    LENGTH NAME $8;
    DO I=1 TO DIM(REGRHS);
        CALL VNAME(REGRHS(I),NAME);
        SUPREG=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 SUPREG;
    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=SUPREG REGCNT&IGRP REGWGT&IGRP);
    BY SUPREG;
    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 SUPREG;
    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 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 SUPREG)
        REGFILE1(KEEP = ADJ&IGRP SUPREG);
    BY SUPREG;
    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 SUPREG;
    DEPENDNT = "&&DEPVAR&IVAR";
    IF INS;
RUN;

PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
    TITLE2 "Print of SUPER REGION 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(8) 8 aCNT1 - aCNT8;
    RETAIN AGEcnt 0;
    RETAIN CNT 0;
    ARRAY AGENAM(8) $8 AGENAM1 - AGENAM8;
    ARRAY AGENAMX(8) $8 AGENAMX1 - AGENAMX8;

```

```

RETAIN AGENAM;
RETAIN AGENAMX;
ARRAY REGCNT(3) 8 REGCNT01 - REGCNT3;
RETAIN CATCNT 0;
RETAIN REGCNT 0;

* create a name array for the parent age dummies;
IF _N_ = 1 THEN DO;
  AGENAM(1) = "AGEUND18";
  AGENAM(2) = "AGE1824";
  AGENAM(3) = "AGE2534";
  AGENAM(4) = "AGE3544";
  AGENAM(5) = "AGE4554";
  AGENAM(6) = "AGE5564";
  AGENAM(7) = "AGE6574";
  AGENAM(8) = "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 AGEUND18 = 1 THEN AGECNT(1) + 1;
IF AGE1824 = 1 THEN AGECNT(2) + 1;
IF AGE2534 = 1 THEN AGECNT(3) + 1;
IF AGE3544 = 1 THEN AGECNT(4) + 1;
IF AGE4554 = 1 THEN AGECNT(5) + 1;
IF AGE5564 = 1 THEN AGECNT(6) + 1;
IF AGE6574 = 1 THEN AGECNT(7) + 1;
IF AGE75UP = 1 THEN AGECNT(8) + 1;

* count records in each SUPREG group;
* we will only use SUPER 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 SUPREG >= 1 AND SUPREG <= 3 THEN DO;
  REGCNT(SUPREG) = REGCNT(SUPREG) + 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) " " AGECONT(4)=;
PUT AGENAM(5) " " AGECONT(5)=;
PUT AGENAM(6) " " AGECONT(6)=;
PUT AGENAM(7) " " AGECONT(7)=;
PUT AGENAM(8) " " AGECONT(8)=;
PUT " ";

DO I = 1 TO 3;
  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 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 8;
  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;
DO I = 1 TO 3;  * 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 3;
    IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
        PUT @16 'REG' I Z2.;
    END;
END;
PUT @11 ' ';
RUN;

* Create the means of the adjuster variables;
* They will be used to replace missing adjuster variables;
* calculate weighted means;
PROC MEANS DATA=GROUP&IGRP;
    WEIGHT &WGT;
    %INCLUDE 'RISKVARS.INC';
    %INCLUDE 'MEANFILE.INC';
RUN;

%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=MEANFILE;
        TITLE2 "Print of MEANFILE for Risk Adjuster variables";
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
    RUN;
%END;

DATA GROUP&IGRP;
    SET GROUP&IGRP;
    IF _N_ = 1 THEN SET MEANFILE;
    %INCLUDE 'RISKARRY.INC';

```

```

%INCLUDE 'RISKMEAN.INC';
DO I = 1 TO DIM(COEFFS);
  IF COEFFS(I) = . THEN DO;
    COEFFS(I) = MEANS(I);
  END;
END;
RUN;

%MEND MAKE_INC;

%MACRO R_SUDAAN(INFILE);
*****;
* use this macro to create standard err (variances);
* FOR: REGIONS ;
*****;
%PUT *****;
%PUT STARTING MACRO R_SUDAAN (SUPER REGIONS);
%PUT *****;

DATA &INFILE;
  SET &INFILE;
  IF SUPREG > 0;
RUN;

* Sort data by STRATUM;
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 (SUPER REGION)';
    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 SUPREG;
  SUBGROUP SUPREG;
  LEVELS 3;
  OUTPUT SEMEAN
    / TABLECELL=DEFAULT
    FILENAME=RS&DEP;
RUN;

DATA R&IGRP&&DEPVAR&IVAR;
  SET RS&DEP;
  KEEP SUPREG 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;

%*****;
%*  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);

*****
*
```

3. CONVERT CAHPS SCORES INTO WEB LAYOUT

```
*****
*
* PROGRAM:   LOADCAHC.SAS
* TASK:     2002 DOD HEALTH CARE SURVEY REPORT CARDS (8860-410)
* PURPOSE:  Convert the CAHPS Scores Database into the WEB layout
*
* WRITTEN:  07/14/2000 BY KEITH RATHBUN
*
* MODIFIED:
*
* 1) 08/24/2001 BY KEITH RATHBUN to support the Q3 2000 child report cards.
* 2) 10/30/2002 BY MIKE SCOTT to support the Q3 2002 child report cards.
*
* INPUTS:   1) CAHPS Individual and Composite data sets with adjusted scores
*
* OUTPUT:   1) LOADCAHC.SD2 - Combined CAHPS Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHC.INC - Format definitions for CAHPS Individual
*             and composite data sets
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1C.SAS - Recode questions and generate group files
*   - STEP2C.SAS - Calculate individual adjusted scores for group 1-7
*   - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*
* 2) The output file (LOADCAHC.SD2) will be run through the
*   MAKEHTMC.SAS program to generate the WEB pages.
*
* 3) This program is a modified version of LOADCAHP.SAS adapted to meet
*   the requirements of the child report card.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN      V612 "..\..\REPORTCARDS\CAHPS_CHILDQ32002\DATA";
LIBNAME OUT     V612 "DATA";
LIBNAME LIBRARY V612 "..\..\..\DATA\CFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\LOADCAHC.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 = "2002";

*****
* 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 = 1 AND C02003 = 4
* 2. Enrollees w/mil PCM  XENR_PCM = 1 AND C02003 = 4
* 3. Enrollees w/civ PCM  XENR_PCM = 2 AND C02003 = 4
* 4. Nonenrollees         XINS_COV IN (2,3)
* 5. Under Age 6          AGEUND6 = 1
* 6. 6-12 Years           AGE0612 = 1
* 7. 13-17 Years          AGE1317 = 1
* 8. All beneficiaries    ALL Beneficiaries
*
*****;
DATA &QUESTION;
    SET IN.&QUESTION;

    LENGTH MAJGRP $42;
    LENGTH ROWCAT $30;
    LENGTH BENTYPE $75;
    LENGTH BENEFIT $50;

*****
* For now, Initialize Significance test to zero.
*****;
SIG = 0;

```

```

*****
* Assign benefit and benefit type
*****;
IF "&TYPE" = "INDIVIDUAL" THEN DO;
  IF DEPENDNT IN("R02042","R02008","R02057","R02016") THEN
    BENTYPE = PUT(&YEAR,$BENTYPF.);
  ELSE
    BENTYPE = PUT(DEPENDNT,$BENTYPF.);
  BENEFIT = PUT(DEPENDNT,$BENEF.);
END;
ELSE IF "&TYPE" = "COMPOSITE" THEN DO;
  BENTYPE = PUT(&YEAR,$BENTYPF.);
  BENEFIT = PUT(DEPENDNT,$BENEF.);
END;
ELSE PUT "ERROR: Invalid TYPE = &TYPE";

*****
* Assign Super-Region to Major Group
*****;
MAJGRP = PUT(SUPREG,MAJGRPF.);

*****
* Output score records for the eight row categories
*****;
%DO I = 1 %TO 8;
  ROWCAT = PUT(&I,ROWCATF.);
  SCORE = ADJ&I;
  SEMEAN = SEMEAN&I;
  N_OBS = &PREFIX.CNT&I;
  N_WGT = &PREFIX.WGT&I;
  OUTPUT;
%END;

KEEP MAJGRP
      ROWCAT
      BENTYPE
      BENEFIT
      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_R02006,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02014,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02031,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02032,TYPE=INDIVIDUAL,REGCAT=Region);

*****

```

```

* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R02019,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02021,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02024,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02033,TYPE=INDIVIDUAL,REGCAT=Region);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R02036,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02037,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02038,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02040,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02041,TYPE=INDIVIDUAL,REGCAT=Region);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R02034,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02035,TYPE=INDIVIDUAL,REGCAT=Region);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R02049,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02051,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02056,TYPE=INDIVIDUAL,REGCAT=Region);

*****
* COMPOSITE # 6.
* CLAIMS PROCESSING.
*****;
%PROCESS(QUESTION=RCOMPOS6,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R02045,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R02046,TYPE=INDIVIDUAL,REGCAT=Region);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(QUESTION=R_R02042,TYPE=INDIVIDUAL,REGCAT=Region);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(QUESTION=R_R02057,TYPE=INDIVIDUAL,REGCAT=Region)

*****

```

```

* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(QUESTION=R_R02008,TYPE=INDIVIDUAL,REGCAT=Region);

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALIST: 0 - 10.
*****;
%PROCESS(QUESTION=R_R02016,TYPE=INDIVIDUAL,REGCAT=Region);

*****
*****
* STACK up all of the files into one final output dataset.
*****;
DATA OUT.LOADCAHC;
  SET R_R02006
      R_R02008
      R_R02014
      R_R02016
      R_R02031
      R_R02032
      R_R02019
      R_R02021
      R_R02024
      R_R02033
      R_R02036
      R_R02037
      R_R02038
      R_R02040
      R_R02041
      R_R02042
      R_R02045
      R_R02046
      R_R02034
      R_R02035
      R_R02049
      R_R02051
      R_R02056
      R_R02057
      RCOMPOS1
      RCOMPOS2
      RCOMPOS3
      RCOMPOS4
      RCOMPOS5
      RCOMPOS6
  ;
  IF SCORE = . THEN DELETE;
RUN;

TITLE1 "2002 DOD Health Survey Scores/Report Cards (8860-410)";
TITLE2 "Program Name: LOADCAHC.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted
scores";
TITLE4 "Program Outputs: LOADCAHC.SD2 - Combined CAHPS Scores Database in WEB
layout";

```

```

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP ROWCAT
      /MISSING LIST;
RUN;

```

```

*****

```

```

* PROGRAM:  LOADCAHC.INC
* TASK:     2000 DOD HEALTH CARE SURVEY REPORT CARDS (8860-410)
* PURPOSE:  Format definitions for converting the CAHPS Scores Database
*           into the WEB layout
*
* WRITTEN:  07/14/2000 BY KEITH RATHBUN
*
* MODIFIED:
*
* 1) 08/24/2001 BY KEITH RATHBUN to support the Q3 2000 child report cards.
* 2) 11/15/2002 BY KEITH RATHBUN, Added parameters for 2002 survey. Also
*    added BENTYPF = 2001-2005.
*
* INPUTS:   No direct input
*
* OUTPUT:   No direct output
*

```

```

*****
;
*****

```

```

* FORMAT Definitions
*****;

```

```

PROC FORMAT;
  VALUE MAJGRPF
    0 = "All Children"
    1 = "Children in New Regions (1, 2, & 5)"
    2 = "Children in Mature Regions (6, 9-12, & 16)"
    3 = "Children in Other Regions (3, 4, & 7/8)"
  ;
  VALUE ROWCATF
    1 = "Prime Enrollees"           /* XINS_COV = 1 AND C02003 = 4 */
    2 = "Enrollees with Military PCM" /* XENR_PCM = 1 AND C02003 = 4 */
    3 = "Enrollees with Civilian PCM" /* XENR_PCM = 2 AND C02003 = 4 */
    4 = "Non-enrolled Beneficiaries" /* XINS_COV IN (2,3)           */
    5 = "Under Age 6"               /* AGEUND6 = 1                 */
    6 = "6-12 Years"                /* AGE0612 = 1                 */
    7 = "13-17 Years"               /* AGE1317 = 1                 */
    8 = "CONUS MHS"                 /* ALL Beneficiaries           */
  ;
  VALUE $BENTYPF
    "2000" = "2000"
    "2001" = "2001"
    "2002" = "2002"
    "2003" = "2003"
    "2004" = "2004"
    "2005" = "2005"
  /*****/
  /* Admin. Year Defn. */
  /* 2001      2002 */
  /*****/

```

```

"R00006 ", "R02006" = "Problems Getting Personal Doctor/Nurse"
"R00014 ", "R02014" = "Problems Getting Referral to Specialist"
"R00031 ", "R02031" = "Problems Getting Necessary Care"
"R00032 ", "R02032" = "Delays in Care While Awaiting Approval"
"R00019 ", "R02019" = "Advice over Telephone"
"R00021 ", "R02021" = "Wait for Routine Visit"
"R00024 ", "R02024" = "Wait for Urgent Care"
"R00033 ", "R02033" = "Wait More Than 15 Minutes Past Appointment"
"R00036 ", "R02036" = "Listens Carefully"
"R00037 ", "R02037" = "Explains so you can Understand"
"R00038 ", "R02038" = "Shows Respect"
"R00040 ", "R02040" = "Explains so your child can Understand"
"R00041 ", "R02041" = "Spends Time with your child"
"R00034 ", "R02034" = "Courteous and Respectful"
"R00035 ", "R02035" = "Helpful"
"R00049 ", "R02049" = "Problem Finding/Understanding Written Material"
"R00051 ", "R02051" = "Problem Getting Help from Customer Service"
"R00056 ", "R02056" = "Problem with Paperwork"
"R00045 ", "R02045" = "Claims Handled in a Reasonable Time"
"R00046 ", "R02046" = "Claims Handled Correctly"
"R00042 ", "R02042" = "Health Care"
"R00057 ", "R02057" = "Health Plan"
"R00008 ", "R02008" = "Personal Doctor or Nurse"
"R00016 ", "R02016" = "Speciality Care"
;
VALUE $BENEF
"RCOMPOS1", "R00006", "R00014", "R00031", "R00032",
"R02006", "R02014", "R02031", "R02032"
= "Getting Needed Care"
"RCOMPOS2", "R00019", "R00021", "R00024", "R00033",
"R02019", "R02021", "R02024", "R02033"
= "Getting Care Quickly"
"RCOMPOS3", "R00036", "R00037", "R00038", "R00040", "R00041",
"R02036", "R02037", "R02038", "R02040", "R02041"
= "How Well Doctors Communicate"
"RCOMPOS4", "R00034", "R00035",
"R02034", "R02035"
= "Courteous and Helpful Office Staff"
"RCOMPOS5", "R00049", "R00051", "R00056",
"R02049", "R02051", "R02056"
= "Customer Service"
"RCOMPOS6", "R00045", "R00046",
"R02045", "R02046"
= "Claims Processing"
/*****/
/* Admin. Year Defn. */
/* 2001 2002 */
/*****/
"R00042", "R02042" = "Health Care"
"R00057", "R02057" = "Health Plan"
"R00008", "R02008" = "Personal Doctor or Nurse"
"R00016", "R02016" = "Speciality Care"
;
RUN;

```


4. CALCULATE CAHPS BENCHMARK DATA FOR 2002 CHILD HCSDB

```
*****
*
* PROGRAM:  BENCHC01.SAS
* TASK:    2002 DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE: Extract 1999 Child CAHPS Questions
*
* WRITTEN: 07/14/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 09/05/2001 BY KEITH RATHBUN, Updated variable names to
*            accommodate the 2000 Q3 Child DOD survey.  Removed unnecessary
*            references to C99D65.
*            2) 10/05/2001 BY KEITH RATHBUN, Added specialty care (C00016).
*            3) 10/31/2002 BY MIKE SCOTT, Updated variable names to
*            accommodate the 2002 Q3 Child DOD survey.
*
* INPUTS:  1) CHILD.SD2 - 1999 Child CAHPS Questions
*
* OUTPUT:  1) BENCHC01.SD2 - 1999 Child CAHPS Questions Renamed to be
*            consistent with the 2000 Q3 Child DOD Survey.
*
* NOTES:
*
* 1) This program will generate the input for BENCHC02.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN      "..\..\..\..\8687\data1999\child_99_cahps_benchmark";
LIBNAME OUT     ".";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHC01;
  SET IN.CHILD;
  FORMAT _ALL_;
  IF CC37 = . THEN CC38 = .;
  C02006 = CC06;
  C02014 = CC11;
  C02016 = CC13;
  C02031 = CC23;
  C02032 = CC24;
  C02019 = CC16;
  C02021 = CC18;
  C02024 = CC20;
  C02033 = CC25;
  C02036 = CC28;
  C02037 = CC29;
  C02038 = CC30;
  C02040 = CC32;
  C02041 = CC33;
  C02034 = CC26;
  C02035 = CC27;
  C02049 = CC36;
  C02051 = CC38;
  C02056 = CC40;
  C02042 = CC34;
  C02008 = CC09;
```

```

C02057 = CC41;
AGEGROUP = CC47; * Parents age grouping;
ZAGE = CAGE; * Childs Age;
XSEXA = CC44; * Childs Sex;
SREDHIGH = CC49; * Parents Education Level;
C02062 = CC42; * Childs health status;

LABEL C02006 = "CC06 - CAHPS variable"
      C02014 = "CC11 - CAHPS variable"
      C02016 = "CC13 - CAHPS variable"
      C02031 = "CC23 - CAHPS variable"
      C02032 = "CC24 - CAHPS variable"
      C02019 = "CC16 - CAHPS variable"
      C02021 = "CC18 - CAHPS variable"
      C02024 = "CC20 - CAHPS variable"
      C02033 = "CC25 - CAHPS variable"
      C02036 = "CC28 - CAHPS variable"
      C02037 = "CC29 - CAHPS variable"
      C02038 = "CC30 - CAHPS variable"
      C02040 = "CC32 - CAHPS variable"
      C02041 = "CC33 - CAHPS variable"
      C02034 = "CC26 - CAHPS variable"
      C02035 = "CC27 - CAHPS variable"
      C02049 = "CC36 - CAHPS variable"
      C02051 = "CC38 - CAHPS variable"
      C02056 = "CC40 - CAHPS variable"
      C02042 = "CC34 - CAHPS variable"
      C02008 = "CC09 - CAHPS variable"
      C02057 = "CC41 - CAHPS variable"
      AGEGROUP = "CC47 - CAHPS variable" /* Parents Age Grouping */
      ZAGE = "CC43 - CAHPS variable" /* Childs Age Variable */
      XSEXA = "CC44 - CAHPS variable" /* Childs Sex */
      SREDHIGH = "CC49 - CAHPS variable" /* Parent Education Level */
      C02062 = "CC42 - CAHPS variable" /* Childs Health Status */
;
KEEP C02006
     C02016
     C02014
     C02031
     C02032
     C02019
     C02021
     C02024
     C02033
     C02036
     C02037
     C02038
     C02040
     C02041
     C02034
     C02035
     C02049
     C02051
     C02056
     C02042
     C02008
     C02057
     AGEGROUP

```

```
ZAGE
XSEXA
SREDHIGH
C02062
PRODUCT
MODEL
;
RUN;

TITLE1 "Extract 1999 Child CAHPS Questions (8860-410)";
TITLE2 "Program Name: BENCHC01.SAS By Keith Rathbun";
TITLE3 "Program Input: CHILD.SD2";
TITLE4 "Program Output: BENCHC01.SD2";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES _ALL_ /MISSING LIST;
RUN;
```

```

*****
*
* PROGRAM:  BENCHC02.SAS
* TASK:    2002 DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE: Recode 1999 Child CAHPS Questions
*
* WRITTEN: 07/17/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 09/05/2001 BY KEITH RATHBUN, Updated variable names to
*            accommodate the 2000 Q3 Child DOD Survey.
*            2) 10/05/2001 BY KEITH RATHBUN, Added specialty care (C00016).
*            3) 11/29/2001 BY KEITH RATHBUN, Removed reverse ordering
*            of C00033.
*            4) 10/31/2002 BY MIKE SCOTT, Updated variable names to
*            accommodate the 2002 Q3 Child DOD Survey.
*
* INPUT:   1) BENCHC01.SD2 - 1999 Child CAHPS Questions Renamed to be
*            consistent with the 2000 Q3 Child DOD Survey.
*
* OUTPUT:  1) BENCHC02.SD2 - Recoded 1999 Child CAHPS Questions Renamed
*            to be consistent with the 2000 Q3 Child DOD Survey.
*
* NOTES:
*
* 1) Run this program after BENCHC01.SAS.
* 2) This program will generate the input for BENCHC03.SAS.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN      ".";
LIBNAME OUT     ".";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHC02;
  SET IN.BENCHC01;

*****
* 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 c02033 =4 then c02033=1;
else if c02033=3 then c02033=2;
else if c02033=2 then c02033=3;
else if c02033=1 then c02033=4;

IF C02019 = 1      THEN R02019 = 1;
ELSE IF C02019 = 2 THEN R02019 = 1;
ELSE IF C02019 = 3 THEN R02019 = 2;
ELSE IF C02019 = 4 THEN R02019 = 3;
ELSE IF C02019 < 0 THEN R02019 = .;

IF C02021 = 1      THEN R02021 = 1;
ELSE IF C02021 = 2 THEN R02021 = 1;
ELSE IF C02021 = 3 THEN R02021 = 2;

```

```

ELSE IF C02021 = 4 THEN R02021 = 3;
ELSE IF C02021 < 0 THEN R02021 = .;

IF C02024 = 1      THEN R02024 = 1;
ELSE IF C02024 = 2 THEN R02024 = 1;
ELSE IF C02024 = 3 THEN R02024 = 2;
ELSE IF C02024 = 4 THEN R02024 = 3;
ELSE IF C02024 < 0 THEN R02024 = .;

IF C02033 = 1      THEN R02033 = 1;
ELSE IF C02033 = 2 THEN R02033 = 1;
ELSE IF C02033 = 3 THEN R02033 = 2;
ELSE IF C02033 = 4 THEN R02033 = 3;
ELSE IF C02033 < 0 THEN R02033 = .;

IF C02036 = 1      THEN R02036 = 1;
ELSE IF C02036 = 2 THEN R02036 = 1;
ELSE IF C02036 = 3 THEN R02036 = 2;
ELSE IF C02036 = 4 THEN R02036 = 3;
ELSE IF C02036 < 0 THEN R02036 = .;

IF C02037 = 1      THEN R02037 = 1;
ELSE IF C02037 = 2 THEN R02037 = 1;
ELSE IF C02037 = 3 THEN R02037 = 2;
ELSE IF C02037 = 4 THEN R02037 = 3;
ELSE IF C02037 < 0 THEN R02037 = .;

IF C02038 = 1      THEN R02038 = 1;
ELSE IF C02038 = 2 THEN R02038 = 1;
ELSE IF C02038 = 3 THEN R02038 = 2;
ELSE IF C02038 = 4 THEN R02038 = 3;
ELSE IF C02038 < 0 THEN R02038 = .;

IF C02040 = 1      THEN R02040 = 1;
ELSE IF C02040 = 2 THEN R02040 = 1;
ELSE IF C02040 = 3 THEN R02040 = 2;
ELSE IF C02040 = 4 THEN R02040 = 3;
ELSE IF C02040 < 0 THEN R02040 = .;

IF C02041 = 1      THEN R02041 = 1;
ELSE IF C02041 = 2 THEN R02041 = 1;
ELSE IF C02041 = 3 THEN R02041 = 2;
ELSE IF C02041 = 4 THEN R02041 = 3;
ELSE IF C02041 < 0 THEN R02041 = .;

IF C02034 = 1      THEN R02034 = 1;
ELSE IF C02034 = 2 THEN R02034 = 1;
ELSE IF C02034 = 3 THEN R02034 = 2;
ELSE IF C02034 = 4 THEN R02034 = 3;
ELSE IF C02034 < 0 THEN R02034 = .;

IF C02035 = 1      THEN R02035 = 1;
ELSE IF C02035 = 2 THEN R02035 = 1;
ELSE IF C02035 = 3 THEN R02035 = 2;
ELSE IF C02035 = 4 THEN R02035 = 3;
ELSE IF C02035 < 0 THEN R02035 = .;

IF C02062 = 1      THEN R02062 = 5;

```

```

ELSE IF C02062 = 2 THEN R02062 = 4;
ELSE IF C02062 = 3 THEN R02062 = 3;
ELSE IF C02062 = 4 THEN R02062 = 2;
ELSE IF C02062 = 5 THEN R02062 = 1;
ELSE IF C02062 > 5 | C02062 < 1 THEN R02062 = .;

*****
* Recode variables to one missing condition "."
* This also renames all the "C02xxx" to 'R02xxx'.
*****;
R02006 = C02006; IF R02006 < 0 THEN R02006 = .;
R02014 = C02014; IF R02014 < 0 THEN R02014 = .;
R02031 = C02031; IF R02031 < 0 THEN R02031 = .;
R02032 = C02032; IF R02032 < 0 THEN R02032 = .;
R02049 = C02049; IF R02049 < 0 THEN R02049 = .;
R02051 = C02051; IF R02051 < 0 THEN R02051 = .;
R02056 = C02056; IF R02056 < 0 THEN R02056 = .;
R02042 = C02042; IF R02042 < 0 THEN R02042 = .;
R02057 = C02057; IF R02057 < 0 THEN R02057 = .;
R02008 = C02008; IF R02008 < 0 THEN R02008 = .;
R02016 = C02016; IF R02016 < 0 THEN R02016 = .;

LABEL R02006 = "CC06 - Recoded CAHPS variable"
      R02014 = "CC11 - Recoded CAHPS variable"
      R02016 = "CC13 - Recoded CAHPS variable"
      R02031 = "CC23 - Recoded CAHPS variable"
      R02032 = "CC24 - Recoded CAHPS variable"
      R02019 = "CC16 - Recoded CAHPS variable"
      R02021 = "CC18 - Recoded CAHPS variable"
      R02024 = "CC20 - Recoded CAHPS variable"
      R02033 = "CC25 - Recoded CAHPS variable"
      R02036 = "CC28 - Recoded CAHPS variable"
      R02037 = "CC29 - Recoded CAHPS variable"
      R02038 = "CC30 - Recoded CAHPS variable"
      R02040 = "CC32 - Recoded CAHPS variable"
      R02041 = "CC33 - Recoded CAHPS variable"
      R02034 = "CC26 - Recoded CAHPS variable"
      R02035 = "CC27 - Recoded CAHPS variable"
      R02049 = "CC36 - Recoded CAHPS variable"
      R02051 = "CC38 - Recoded CAHPS variable"
      R02056 = "CC40 - Recoded CAHPS variable"
      R02042 = "CC34 - Recoded CAHPS variable"
      R02008 = "CC09 - Recoded CAHPS variable"
      R02057 = "CC41 - Recoded CAHPS variable"
      R02062 = "CC42 - Recoded CAHPS variable"
      PRODUCT = "Product ID - CAHPS variable";
;
RUN;

TITLE1 "Recode 1999 Child CAHPS Questions (8860-410)";
TITLE2 "Program Name: BENCHC02.SAS By Keith Rathbun";
TITLE3 "Program Input: BENCHC01.SD2";
TITLE4 "Program Output: BENCHC02.SD2";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES AGEGROUP

```

```
ZAGE
XSEX
SREDHIGH
C02006 * R02006
C02014 * R02014
C02031 * R02031
C02032 * R02032
C02019 * R02019
C02021 * R02021
C02024 * R02024
C02033 * R02033
C02036 * R02036
C02037 * R02037
C02038 * R02038
C02040 * R02040
C02041 * R02041
C02034 * R02034
C02035 * R02035
C02049 * R02049
C02051 * R02051
C02056 * R02056
C02042 * R02042
C02057 * R02057
C02008 * R02008
C02016 * R02016
C02062 * R02062
/MISSING LIST;
RUN;
```

```

*****
*
* PROGRAM:  BENCHC03.SAS
* TASK:    2002 DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE: Recode 1999 Child CAHPS Questions
*
* WRITTEN:  June 2000 BY ERIC SCHONE
*
* MODIFIED: 1) June 2000 BY KEITH RATHBUN - Output permanent datasets with
*          scores and standard errors and process the rest of the
*          composites and ratings.
*          2) July 2000 BY KEITH RATHBUN - Update macro calls for child
*          survey. Update to accommodate a 5th dependent variable.
*          3) September 2001 BY KEITH RATHBUN - Update macro calls for 2000
*          Q3 Child survey. Let wgt = wrwt. Update libnames. Added
*          specialty care.
*          4) October 2002 BY MIKE SCOTT, Updated variable names to
*          accommodate the 2002 Q3 Child DOD survey. Changed INTERCEP
*          to INTERCEPT.
*
* INPUT:   1) BENCHC02.SD2 - 1999 Child CAHPS Questions Renamed to be
*          consistent with the 2000 Q3 Child DOD Survey.
*
* OUTPUTS: 1) Benchmark Composite Scores Data Sets
*
* INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional values
*          for consistency with TOPS.
*
* NOTES:
*
* 1) Run this program after BENCHC02.SAS.
* 2) This program will generate the input for BENCHC04.SAS.
*
*****
* Assign data libraries and options
*****;
libname in  '.';
libname in2 '..\reportcards\cahps_childq32002\data';
libname out 'datachild';

%let wgt = wrwt;

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(rename=( _freq_ =denom)) count2;
  set count;
  if _type_=0 then output count;
  else output count2;
run;

data count(keep=pweight product);
  if _n_=1 then set count;
  set count2;
  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;
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=5 %to 5;
  %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,e);
  %if &a~= %then %do;
    %let n=r_&a;
    %let m=s_&a;
    %do i=5 %to 5;
      %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=5 %to 5;
      %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;
    %let n=%str(&n r_&c);
    %let m=%str(&m s_&c);
    %do i=5 %to 5;
      %let p&i=%str(&p&i &c._&i);
    %end;
    %let grpnum=3;
    proc sort data=r_&c;
      by mpid;
    run;
  %end;

  %if &d~= %then %do;
    %let n=%str(&n r_&d);
    %let m=%str(&m s_&d);
    %do i=5 %to 5;
      %let p&i=%str(&p&i &d._&i);
    %end;
    %let grpnum=4;
    proc sort data=r_&d;
      by mpid;
    run;
  %end;

  %if &e~= %then %do;
    %let n=%str(&n r_&e);
    %let m=%str(&m s_&e);
    %do i=5 %to 5;
      %let p&i=%str(&p&i &e._&i);

```

```

        %end;
        %let grpnum=5;
        proc sort data=r_&e;
            by mpid;
        run;
    %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;
        %if &e~= %then %do;
            set s_&e;
        %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;
    end;
run;

data sefin&compno;
    set final end=last;
    tv+sde;
    if last then do;
        sde=(tv**.5)/&grpnum;
    end;
end;

```

```

output;
end;

%do i=5 %to 5;
  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
        sfin&compno;
run;

%end;

%mend comp;
/* create composites */
proc sort data=in.benchc02 out=setup;
  by product;
run;

data setup;
  set setup; by product;
  mpid=_n_;
  IF (ZAGE NE . AND ZAGE NE 255) THEN DO;
    AGEUND6 = 0;
    AGE0612 = 0;
    AGE1317 = 0;

    IF      (ZAGE < 6)           THEN AGEUND6 = 1;
    ELSE IF (6  <= ZAGE <= 12) THEN AGE0612 = 1;
    ELSE IF (13 <= ZAGE <= 17) THEN AGE1317 = 1;
  END;
if agegroup ne . then do;
  ageund18=0; age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;

  if agegroup=0 then ageund18 = 1;
  else 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 ageund6=1;
run;

%INCLUDE "J:\8687\PROGRAMS\REPORTCARDS\CONVERT.SAS";

%CONT1(DSN=SETUP, NUM=7, Y=R02006 R02014 R02031 R02032
      R02049 R02051 R02056);

%CONT2(DSN=SETUP, NUM=4, Y=R02042 R02057 R02008 R02016);

%CONT3(DSN=SETUP, NUM=11, Y=R02019 R02021 R02024 R02033
      R02036 R02037 R02038 R02040
      R02041 R02034 R02035);

/* GETTING NEEDED CARE */
%ADJUST(R02006,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02014,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02031,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02032,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(1,R02006,R02014,R02031,R02032);

/* GETTING NEEDED CARE QUICKLY */
%ADJUST(R02019,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02021,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02024,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02033,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(2,R02019,R02021,R02024,R02033);

/* HOW WELL DOCTORS COMMUNICATE */
%ADJUST(R02036,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02037,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02038,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02040,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02041,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(3,R02036,R02037,R02038,R02040,R02041);

/* COURTEOUS AND HELPFUL OFFICE STAFF */
%ADJUST(R02034,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02035,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(4,R02034,R02035);

```

```

/* CUSTOMER SERVICE */
%ADJUST(R02049,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02051,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02056,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(5,R02049,R02051,R02056);

/* RATING ALL HEALTH CARE: 0 - 10 */
%ADJUST(R02042,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(6,R02042);

/* RATING OF HEALTH PLAN: 0 - 10 */
%ADJUST(R02057,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(7,R02057);

/* RATING OF PERSONAL DR: 0 - 10 */
%ADJUST(R02008,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(8,R02008);

/* RATING OF SPECIALTY CARE: 0 - 10 */
%ADJUST(R02016,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(9,R02016);

```

```

*****
*
* PROGRAM:  BENCHC03.SAS
* TASK:    2002 DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE: Recode 1999 Child CAHPS Questions
*
* WRITTEN:  June 2000 BY ERIC SCHONE
*
* MODIFIED: 1) June 2000 BY KEITH RATHBUN - Output permanent datasets with
*          scores and standard errors and process the rest of the
*          composites and ratings.
*          2) July 2000 BY KEITH RATHBUN - Update macro calls for child
*          survey. Update to accommodate a 5th dependent variable.
*          3) September 2001 BY KEITH RATHBUN - Update macro calls for 2000
*          Q3 Child survey. Let wgt = wrwt. Update libnames. Added
*          specialty care.
*          4) October 2002 BY MIKE SCOTT, Updated variable names to
*          accommodate the 2002 Q3 Child DOD survey. Changed INTERCEP
*          to INTERCEPT.
*
* INPUT:   1) BENCHC02.SD2 - 1999 Child CAHPS Questions Renamed to be
*          consistent with the 2002 Q3 Child DOD Survey.
*
* OUTPUTS: 1) Benchmark Composite Scores Data Sets
*
* INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional values
*          for consistency with TOPS.
*
* NOTES:
*
* 1) Run this program after BENCHC02.SAS.
* 2) This program will generate the input for BENCHC04.SAS.
*
*****
* Assign data libraries and options
*****;
libname in  '.';
libname in2 '..\reportcards\cahps_childq32002\data';
libname out 'datachild';

%let wgt=wrwt;

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(rename=( _freq_ =denom)) count2;
set count;
if _type_=0 then output count;
else output count2;
run;

data count(keep=pweight product);
if _n_=1 then set count;
set count2;
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;
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=6 %to 6;
  %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,e);
  %if &a~= %then %do;
    %let n=r_&a;
    %let m=s_&a;
    %do i=6 %to 6;
      %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=6 %to 6;
      %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;
    %let n=%str(&n r_&c);
    %let m=%str(&m s_&c);
    %do i=6 %to 6;
      %let p&i=%str(&p&i &c._&i);
    %end;
    %let grpnum=3;
    proc sort data=r_&c;
      by mpid;
    run;
  %end;

  %if &d~= %then %do;
    %let n=%str(&n r_&d);
    %let m=%str(&m s_&d);
    %do i=6 %to 6;
      %let p&i=%str(&p&i &d._&i);
    %end;
    %let grpnum=4;
    proc sort data=r_&d;
      by mpid;
    run;
  %end;

  %if &e~= %then %do;
    %let n=%str(&n r_&e);
    %let m=%str(&m s_&e);
    %do i=6 %to 6;
      %let p&i=%str(&p&i &e._&i);

```

```

        %end;
        %let grpnum=5;
        proc sort data=r_&e;
            by mpid;
        run;
    %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;
        %if &e~= %then %do;
            set s_&e;
        %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;
    end;
run;

data sefin&compno;
    set final end=last;
    tv+sde;
    if last then do;
        sde=(tv**.5)/&grpnum;
    end;
end;

```

```

output;
end;

%do i=6 %to 6;
  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
        sfin&compno;
run;

%end;

%mend comp;
/* create composites */
proc sort data=in.benchc02 out=setup;
  by product;
run;

data setup;
  set setup; by product;
  mpid=_n_;
  IF (ZAGE NE . AND ZAGE NE 255) THEN DO;
    AGEUND6 = 0;
    AGE0612 = 0;
    AGE1317 = 0;

    IF      (ZAGE < 6)           THEN AGEUND6 = 1;
    ELSE IF (6  <= ZAGE <= 12) THEN AGE0612 = 1;
    ELSE IF (13 <= ZAGE <= 17) THEN AGE1317 = 1;
  END;
if agegroup ne . then do;
  ageund18=0; age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;

  if agegroup=0 then ageund18 = 1;
  else 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 age0612=1;
run;
%INCLUDE "J:\8687\PROGRAMS\REPORTCARDS\CONVERT.SAS";

%CONT1(DSN=SETUP, NUM=7, Y=R02006 R02014 R02031 R02032
      R02049 R02051 R02056);

%CONT2(DSN=SETUP, NUM=4, Y=R02042 R02057 R02008 R02016);

%CONT3(DSN=SETUP, NUM=11, Y=R02019 R02021 R02024 R02033
      R02036 R02037 R02038 R02040
      R02041 R02034 R02035);

/* GETTING NEEDED CARE */
%ADJUST(R02006,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02014,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02031,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02032,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(1,R02006,R02014,R02031,R02032);

/* GETTING NEEDED CARE QUICKLY */
%ADJUST(R02019,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02021,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02024,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02033,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(2,R02019,R02021,R02024,R02033);

/* HOW WELL DOCTORS COMMUNICATE */
%ADJUST(R02036,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02037,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02038,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02040,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02041,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(3,R02036,R02037,R02038,R02040,R02041);

/* COURTEOUS AND HELPFUL OFFICE STAFF */
%ADJUST(R02034,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02035,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(4,R02034,R02035);

/* CUSTOMER SERVICE */

```

```

%ADJUST(R02049,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02051,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%ADJUST(R02056,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(5,R02049,R02051,R02056);

/* RATING ALL HEALTH CARE: 0 - 10 */
%ADJUST(R02042,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(6,R02042);

/* RATING OF HEALTH PLAN: 0 - 10 */
%ADJUST(R02057,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(7,R02057);

/* RATING OF PERSONAL DR: 0 - 10 */
%ADJUST(R02008,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(8,R02008);

/* RATING OF SPECIALTY CARE: 0 - 10 */
%ADJUST(R02016,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574
R02062);
%COMP(9,R02016);

```

```

*****
*
* PROGRAM:  BENCHC04.SAS
* TASK:    2002 DOD HEALTH CARE SURVEY ANALYSIS (8860-410)
* PURPOSE: Convert the Benchmark Scores Database into the WEB layout
*
* WRITTEN: 07/17/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) September 2001 BY KEITH RATHBUN - Update macro calls for 2000
*           Q3 Child survey. Updated libnames and file references.
*           2) 10/05/2001 BY KEITH RATHBUN, Added specialty care (C00016).
*           3) 10/31/2002 BY MIKE SCOTT, Updated variable names to
*              accommodate the 2002 Q3 Child DOD survey.
*
* INPUTS:  1) Benchmark data sets with adjusted scores
*           (COMPn_i.SD2 where n = composite number and i = group number)
*
* OUTPUT:  1) BENCHC04.SD2 - Combined Benchmark Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHC.INC - Format definitions for CAHPS Individual
*             and composite data sets
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*    - BENCHC01.SAS - Extract Benchmark variables
*    - BENCHC02.SAS - Recode Benchmark variables
*    - BENCHC03.SAS - Construct Scores and SEMEAN datasets
*
* 2) The output file (BENCHC04.SD2) will be run through the
*    MAKEHTML.SAS program to generate the WEB pages.
*
* 3) The child-based CAHPS composite measures are based on children 12
*    years old or younger. Therefore, we will only produce benchmarks
*    for groups 5 (Under Age 6) and 6 (6-12 Years).
*
*****
* Assign data libraries and options
*****;
LIBNAME IN      V612 "DATACHILD";
LIBNAME OUT    V612 "DATACHILD";
LIBNAME LIBRARY V612 "..\..\DATA\CFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* Load Format definitions for CAHPS Individual and composite data sets.
*****;
%INCLUDE "..\LOADWEB\LOADCAHC.INC";

*****
*****
* Process Macro Input Parameters:
*
* 1) CNUM = Composite or rating variable number (1-8)
* 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 = 1 AND C02003=4
- * 2. Enrollees w/mil PCM XENR_PCM = 1 AND C02003=4
- * 3. Enrollees w/civ PCM XENR_PCM = 2 AND C02003=4
- * 4. Nonenrollees XINS_COV IN (2,3)
- * 5. Under Age 6 AGEUND6 = 1
- * 6. 6-12 Years AGE0612 = 1
- * 7. 13-17 Years AGE1317 = 1
- * 8. All beneficiaries All beneficiaries

*

*****;

%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);

* Assign value for BENTYPE composite year

*****;

%LET YEAR = "2002";

* Convert benchmark scores datasets into WEB layout.

*****;

DATA COMP&CNUM._&GNUM;

 SET IN.COMP&CNUM._&GNUM;

 LENGTH MAJGRP \$42;

 LENGTH ROWCAT \$30;

 LENGTH BENTYPE \$75;

 LENGTH BENEFIT \$50;

* For now, assign SIG = 0

*****;

SIG = 0;

* Assign Row Category

*****;

IF &GNUM = 5 THEN ROWCAT = "Under Age 6-Benchmark";

ELSE IF &GNUM = 6 THEN ROWCAT = "6-12 Years-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 = "Health Care";

ELSE IF &CNUM = 7 THEN BENEFIT = "Health Plan";

ELSE IF &CNUM = 8 THEN BENEFIT = "Personal Doctor or Nurse";

ELSE IF &CNUM = 9 THEN BENEFIT = "Speciality Care";

```

BENTYPE = PUT(&YEAR,$BENTYPF.);

*****
* Assign composite score and SEMEAN
*****;
SCORE = TOTADJ;
SEMEAN = SDE;

*****
* Assign major groups and output composite score records
*****;
DO I = 0 TO 3; DROP I;
  MAJGRP = PUT(I,MAJGRPF.);
  OUTPUT;
END;

*****
* Now, output the individual score records
*****;
IF &NVAR GT 1 THEN DO;
  ARRAY ITEMS &VARS;
  ARRAY SE &SE;
  LENGTH NAME $8;
  DO I = 1 TO DIM(ITEMS); DROP I;
    CALL VNAME(ITEMS(I),NAME);
    NAME = SUBSTR(NAME,1,6);
    SCORE = ITEMS(I);
    SEMEAN = SE(I);
    BENTYPE = PUT(NAME,$BENTYPF.);
    DO J = 0 TO 3; DROP J;
      MAJGRP = PUT(J,MAJGRPF.);
      OUTPUT;
    END;
  END;
END;

KEEP MAJGRP
ROWCAT
BENTYPE
BENEFIT
SEMEAN
SCORE
SIG
;
RUN;

%MEND;

*****
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
*****;
%PROCESS(CNUM=1, GNUM=5, NVAR=4, VARS=R02006_5 R02014_5 R02031_5 R02032_5,
          SE=S_R02006 S_R02014 S_R02031 S_R02032);
%PROCESS(CNUM=1, GNUM=6, NVAR=4, VARS=R02006_6 R02014_6 R02031_6 R02032_6,
          SE=S_R02006 S_R02014 S_R02031 S_R02032);
*****

```

```

* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*****;
%PROCESS(CNUM=2, GNUM=5, NVAR=4, VARS=R02019_5 R02021_5 R02024_5 R02033_5,
          SE=S_R02019 S_R02021 S_R02024 S_R02033);
%PROCESS(CNUM=2, GNUM=6, NVAR=4, VARS=R02019_6 R02021_6 R02024_6 R02033_6,
          SE=S_R02019 S_R02021 S_R02024 S_R02033);

*****
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*****;
%PROCESS(CNUM=3, GNUM=5, NVAR=5, VARS=R02036_5 R02037_5 R02038_5 R02040_5
R02041_5,
          SE=S_R02036 S_R02037 S_R02038 S_R02040
S_R02041);
%PROCESS(CNUM=3, GNUM=6, NVAR=5, VARS=R02036_6 R02037_6 R02038_6 R02040_6
R02041_6,
          SE=S_R02036 S_R02037 S_R02038 S_R02040
S_R02041);

*****
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*****;
%PROCESS(CNUM=4, GNUM=5, NVAR=2, VARS=R02034_5 R02035_5, SE=S_R02034 S_R02035);
%PROCESS(CNUM=4, GNUM=6, NVAR=2, VARS=R02034_6 R02035_6, SE=S_R02034 S_R02035);

*****
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*****;
%PROCESS(CNUM=5, GNUM=5, NVAR=3, VARS=R02049_5 R02051_5 R02056_5,
          SE=S_R02049 S_R02051 S_R02056);
%PROCESS(CNUM=5, GNUM=6, NVAR=3, VARS=R02049_6 R02051_6 R02056_6,
          SE=S_R02049 S_R02051 S_R02056);

*****
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*****;
%PROCESS(CNUM=6, GNUM=5, NVAR=1, VARS=R02042_5, SE=S_R02042);
%PROCESS(CNUM=6, GNUM=6, NVAR=1, VARS=R02042_6, SE=S_R02042);

*****
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
*****;
%PROCESS(CNUM=7, GNUM=5, NVAR=1, VARS=R02057_5, SE=S_R02057);
%PROCESS(CNUM=7, GNUM=6, NVAR=1, VARS=R02057_6, SE=S_R02057);

*****
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****;
%PROCESS(CNUM=8, GNUM=5, NVAR=1, VARS=R02008_5, SE=S_R02008);
%PROCESS(CNUM=8, GNUM=6, NVAR=1, VARS=R02008_6, SE=S_R02008);

```

```

*****
* INDIVIDUAL # 4.
* RATING OF SPECIALITY CARE: 0 - 10.
*****;
%PROCESS(CNUM=9, GNUM=5, NVAR=1, VARS=R02016_5, SE=S_R02016);
%PROCESS(CNUM=9, GNUM=6, NVAR=1, VARS=R02016_6, SE=S_R02016);

*****
*****
* STACK up all of the files into one final output dataset.
*****
*****;
DATA OUT.BENCHC04;
  SET COMP1_5  COMP1_6
      COMP2_5  COMP2_6
      COMP3_5  COMP3_6
      COMP4_5  COMP4_6
      COMP5_5  COMP5_6
      COMP6_5  COMP6_6
      COMP7_5  COMP7_6
      COMP8_5  COMP8_6
      COMP9_5  COMP9_6
  ;
  IF SCORE = . THEN DELETE;
RUN;

TITLE1 "2002 DOD Health Survey Scores/Report Cards (8860-410)";
TITLE2 "Program Name: BENCHC04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with
adjusted scores";
TITLE4 "Program Outputs: BENCHC04.SD2 - Combined Benchmark Scores Database in
WEB layout";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP ROWCAT
  /MISSING LIST;
RUN;

```

5. CALCULATE PCM COMPOSITE SCORE

```

*****
* Project: DoD Reporting and Analysis 8860-410
* Program: MPRCOMPC.SAS
* Author: Chris Rankin
* Date: 7/17/2000
* Modified: 1) 10/09/2001 Modified for 2000
*           2nd composite questions from 1999 dropped from
*           questionnaire for 2000
*           2) 10/31/2002 by Mike Scott: Updated for Q3 2002
*           child report cards.
*
* Purpose: Calculate MPR Preventive Care Composites
*          CHILD VERSION
* Input:   HCS02C_1.SD2
* Output:  RCMPSUM.SD2
*          MCMPSUM.SD2
* Include
* Files:   LOADCAHP.INC
*          CACRTP.INC
* Note:    Next program is Loadmprc.sas
*****;

OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 MLOGIC MPRINT COMPRESS=YES;

LIBNAME IN    "..\..\..\DATA\CFINAL";
LIBNAME OUT   ".";
LIBNAME LIBRARY "..\..\..\DATA\CFINAL\FMTLIB";

%LET WGT=WRWT;
%LET DEBUG=Y;          /** Set to Y for Debug print of datasets **/
%LET YR=02 ;          /** used to name variables **/
%LET INDATA=HCS02C_1;

**%LET YRDATA=HCS00;

/***** The following parameters are used in the Variance *****/
/***** calcuation macro for region and catchment area *****/

%LET GRPNUM=8;        /** number of groups **/
%LET COMPNUM=3;       /** nunper of variables **/
%LET CMPNUM1=3;       /** number of variables in first compostie **/
%LET CMPNUM2=0;       /** number of variables in second composite **/

%LET COMPCNT=1;       /** number of composites **/

%INCLUDE "..\..\LOADWEB\LOADCAHC.INC";

/**** Note: output all data to a single dataset for macro **/
/**** call **/
/**** Note: for child data, all responses are in CONUS **/

*****
*
* Beneficiary Groups:
*
* _____
* Adjusted Score          Definitions

```

```

*      Group Number
*
* 1. Prime enrollees          XINS_COV = 1 AND C02003=4
* 2. Enrollees w/mil PCM     XENR_PCM = 1 AND C02003=4
* 3. Enrollees w/civ PCM     XENR_PCM = 2 AND C02003=4
* 4. Nonenrollees           XINS_COV IN (2,3)
* 5. Under Age 6             AGEUND6 = 1
* 6. 6-12 Years              AGE0612 = 1
* 7. 13-17 Years            AGE1317 = 1
* 8. All beneficiaries       All beneficiaries
*
*****;

DATA HCSDB(KEEP=BGROUP SUPREG  &WGT MPRVAR1-MPRVAR&COMPNUM
          NUM&YR.V1-NUM&YR.V&COMPNUM. DEN&YR.V1-DEN&YR.V&COMPNUM.);

SET IN.&INDATA(RENAME=(STRATUM=XSTRATUM FIELDAGE=ZAGE));

/**** note:  for PCM composite, the numerator and denominator are not *****/
/**** the same question(s) *****/

MPRVAR1=C02009;    ** had a PCM ;
MPRVAR2=C02010;    ** know the name of PCM ;
MPRVAR3=C02011;    ** how much of a problem -- PCM ;

/**** set up numerator and denominator for proportions *****/

ARRAY MPRVAR(*) MPRVAR1-MPRVAR&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=1 THEN DO;
    DENOM(I)=1;
    IF C02009=1 THEN NUMER(I)=1;
    ELSE NUMER(I)=0;
  END;
  ELSE IF I IN (2,3) THEN DO;
    IF C02009=1 THEN DENOM(I)=1;
    IF I=2 THEN DO;
      IF MPRVAR(I) = 1 THEN NUMER(I) = 1;
      ELSE NUMER(I)=0;
    END;
    ELSE IF I=3 THEN DO;
      IF MPRVAR(I)=3 THEN NUMER(I)=1;
      ELSE NUMER(I)=0;
    END;
  END;
END;

DROP I;
*****;
* taken from cahps, step 1 program ;

IF (ZAGE NE " ") THEN DO;
  AGEUND6 = 0;
  AGE0612 = 0;
  AGE1317 = 0;

```

```

        IF      (ZAGE < "006")          THEN AGEUND6 = 1;
        ELSE IF ("006" <= ZAGE <= "012") THEN AGE0612 = 1;
        ELSE IF ("013" <= ZAGE <= "017") THEN AGE1317 = 1;
END;

* create the beneficiary group/enrollment group subsets;
* groups 1-3 modified 10/09/2000          ;

IF (XINS_COV = 1 AND C02003=4) THEN DO;
    BGROUP = 1; OUTPUT;
END;

IF (XENR_PCM = 1 AND C02003=4) THEN DO;
    BGROUP = 2; OUTPUT;
END;

IF (XENR_PCM = 2 AND C02003=4) THEN DO;
    BGROUP = 3; OUTPUT;
END;

IF XINS_COV IN (2,3) THEN DO;
    BGROUP = 4; OUTPUT;
END;

IF AGEUND6 = 1 & (XINS_COV = 1 AND C02003=4) THEN DO;
    BGROUP = 5; OUTPUT;
END;

IF AGE0612 = 1 & (XINS_COV = 1 AND C02003=4) THEN DO;
    BGROUP = 6; OUTPUT;
END;

IF AGE1317 = 1 & (XINS_COV = 1 AND C02003=4) THEN DO;
    BGROUP = 7; OUTPUT;
END;

if (XINS_COV = 1 AND C02003=4) then do;
    BGROUP=8;
    OUTPUT; end;

RUN;

*****;
**** Next, check catchment areas for requisite number of observations *;
**** for the macro calls (exclude ENBGSMPL w/ <2 obs)          *;
**** also, keep list of region/catchment area combinations      *;
*****;

** Note:  this section of code removed, 10/04/2001 C. Rankin ;

**PROC FREQ NOPRINT DATA=&YRDATA;
**  TABLE BGROUP*SUPREG*CACSMPL/MISSING LIST
**  OUT=OBSCNT(DROP=PERCENT);
**RUN;

**PROC SORT DATA=&YRDATA;
**BY BGROUP SUPREG CACSMPL;
**RUN;

```

```

**DATA HCSDB /*FAILED*/; /** Note: include all catchment areas **/
**MERGE &YRDATA(IN=IN_ALL) OBSCNT(IN=IN_OBS);
**BY BGROUP SUPREG CACSMPL;

**IF COUNT < 2 THEN PUT "Less than 2 obs: SUPREG=" SUPREG "CACSMPL=" CACSMPL;
** OUTPUT FAILED;
**END;
**ELSE DO;
**OUTPUT HCSDB;
**END;
**RUN;

**DATA OBSCNT;
** SET OBSCNT;
** RENAME BGROUP=GROUP;
**RUN;

**PROC SORT NODUPKEY DATA=OBSCNT;
** BY GROUP CACSMPL;
**RUN;

*****;
*** Note: for child MPR Composites, no significance tests are performed ***;
*** so standard errors are not calculated ***;
*** A_Sudaan, Getcor, and Getsig macros are not needed(see adult program ***;
*****;

*****;
**** Macro to derive composites for each ***;
**** beneficiary group, level ***;
**** output one dataset for each group ***;
*****;

%MACRO GETPROP(BYVAR);

%LET COMP1 = %EVAL(&CMPNUM1+1);
%LET COMP2 = %EVAL(&CMPNUM1+&CMPNUM2);

%IF %UPCASE(&BYVAR)=SUPREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=CONUS %THEN %LET PREF=M;

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=HCSDB;
CLASS BGROUP &BYVAR;
VAR DEN&YR.V1-DEN&YR.V&COMPNUM;
OUTPUT OUT=&PREF.DGFR(DROP=_TYPE_ _FREQ_)
SUM= OBS&YR.V1-OBS&YR.V&COMPNUM;

```



```

RUN;

DATA ALLCAT;
  MERGE &PREF.CMPSUM(RENAME=( _FREQ_=N_OBS&YR.))
        &PREF.DGFR;
  BY BGROUP &BYVAR;
RUN;

PROC MEANS NWAY NOPRINT DATA=ALLCAT; /** summarize for all children **/
  CLASS BGROUP;
  VAR OBS&YR.V1-OBS&YR.V&COMPNUM
      NUM&YR.V1-NUM&YR.V&COMPNUM
      DEN&YR.V1-DEN&YR.V&COMPNUM;
  OUTPUT OUT=ALLCHILD(DROP=_TYPE_ _FREQ_)
  SUM= ;
RUN;

DATA OUT.MPRCOMPC;
  SET ALLCAT
      ALLCHILD;

  IF SUPREG = . THEN SUPREG = 0; /** all children dataset **/;

  MAJGRP=PUT(SUPREG, MAJGRPF.);

  /**** set up group variable **/

  RENAME BGROUP=GROUP;

  /**** set up proportions, and composites **/

  ARRAY PROPORT PRP&YR.V1-PRP&YR.V&COMPNUM;
  ARRAY NUMER   NUM&YR.V1-NUM&YR.V&COMPNUM;
  ARRAY DENOM   DEN&YR.V1-DEN&YR.V&COMPNUM;

  DO J=1 TO DIM(PROPORT);
    PROPORT(J) = NUMER(J)/DENOM(J);
  END;
  DROP J;

  /**** 2 composites **/

  %DO Q=1 %TO &COMPCNT;
    %IF &Q=1 %THEN %DO;
      CP&YR.NUM&Q.=SUM(OF NUM&YR.V1-NUM&YR.V&COMPNUM1);
      CP&YR.DEN&Q.=SUM(OF DEN&YR.V1-DEN&YR.V&COMPNUM1);
      CP&YR.OBS&Q.=SUM(OF OBS&YR.V1-OBS&YR.V&COMPNUM1);
    %END;
    %ELSE %IF &Q=2 %THEN %DO;
      CP&YR.NUM&Q.=SUM(OF NUM&YR.V&COMP1.-NUM&YR.V&COMP2);
      CP&YR.DEN&Q.=SUM(OF DEN&YR.V&COMP1.-DEN&YR.V&COMP2);
      CP&YR.OBS&Q.=SUM(OF OBS&YR.V&COMP1.-OBS&YR.V&COMP2);
    %END;
    COMP&YR.&Q.=CP&YR.NUM&Q./CP&YR.DEN&Q.;
  %END;

```

```
/** Note: don't need weights for benchmarks **/  
  
%IF &DEBUG=Y AND &PREF=R %THEN %DO;  
  
    PROC PRINT DATA=OUT.MPRCOMPC; /* print out final dataset */  
    RUN; /* for region to check */  
%END;  
  
%MEND GETPROP;  
  
%GETPROP(SUPREG);  
  
ENDSAS;
```

6. CONVERT PCM COMPOSITE SCORES INTO WEB LAYOUT

```

/*****
/* Project: DoD Reporting and Analysis 8860-410 *
/* Program: LOADMPR.SAS *
/* Author: Chris Rankin *
/* Date: 08/01/2000 *
/* Modified: 1) 10/31/2002 by Mike Scott: Updated for Q3 2002 *
/* child report cards. *
/* Purpose: Load MPR composites for child data *
/* *
/* Input: RFINAL.SD2 *
/* MFINAL.SD2 *
/* Output: Loadmprc.sd2 *
/*****/

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2;

LIBNAME INLIB V612 ".";
LIBNAME OUT V612 ".";
LIBNAME LIBRARY V612 "..\..\..\DATA\CFINAL\FMTLIB";
LIBNAME IN2 V612 "..\..\LOADWEB";

%LET COMPNUM=3; /*** number of questions in all composites ***/
%LET COMPCNT=1; /*** number of composites ***/

%LET YR=02;
%LET YEAR=2002;

%INCLUDE "..\..\LOADWEB\LOADCAHC.INC";

PROC FORMAT;
VALUE BENF
1-4, 7 = 'Primary Care Manager';

RUN;

DATA OUT.LOADMPCR(KEEP=MAJGRP ROWCAT BENEFIT BENTYPE SCORE N_OBS N_WGT);
LENGTH MAJGRP $42;
LENGTH ROWCAT $30;
LENGTH BENTYPE $75;
LENGTH BENEFIT $50;

SET INLIB.MPRCOMPC;

ARRAY PROPORT{*} PRP&YR.V1-PRP&YR.V&COMPNUM. COMP&YR.1;
ARRAY NOBS{*} OBS&YR.V1-OBS&YR.V&COMPNUM. CP&YR.OBS1;
ARRAY NWGT{*} DEN&YR.V1-DEN&YR.V&COMPNUM. CP&YR.DEN1;

DO I=1 TO 4;
SCORE=PROPORT{I}*100;
** SIG=SIGNIF{I};
N_OBS=NOBS{I};
N_WGT=NWGT{I};
ROWCAT=PUT(GROUP,ROWCATF.);
BENEFIT=PUT(I,BENF.);

```

```
IF I=1 THEN DO;
  BENTYPE="Had a TRICARE PCM";
  OUTPUT;
END;
ELSE IF I=2 THEN DO;
  BENTYPE="Parent Knows Child's PCM's Name";
  OUTPUT;
END;
ELSE IF I=3 THEN DO;
  BENTYPE= "Had a 'Big Problem' Getting to See PCM";
  OUTPUT;
END;

ELSE IF I=4 THEN DO;
  BENTYPE= "&YEAR";
  OUTPUT;
END;
END;
RUN;
```

```
PROC PRINT DATA=OUT.LOADMPCRC;
RUN;
```

7. GENERATE WEB LAYOUT FOR 2002 CHILD TRICARE CONSUMER REPORTS

```
*****
*
* PROJECT: 8860 - 2002 Annual Child Survey
* PROGRAM: FAKEC.SAS
* PURPOSE: Generate Fake Data for Report Cards
* AUTHOR: Natalie Justh
*
* MODIFIED: 1) 10/5/2001 By Keith Rathbun to accommodate 2000 version
* of the child report card layout file. Added YEAR
* parameter for ease of maintenance. Deleted Attitudes
* Toward TRICARE Prime and added Speciality Care and
* Claims Processing. Removed unnecessary code used to
* assign SCORE and SIG values.
*
* 2) 10/18/2001 By Chris Rankin to change the order that
* the data appear in the report cards.
*
* 3) 11/1/2002 By Mike Scott and Keith Rathbun to
* accommodate the 2002 version of the child report card
* layout file.
*****;
```

```
LIBNAME OUT V612 '.';
OPTIONS COMPRESS=YES;
```

```
PROC FORMAT;
```

```
VALUE ROWMAT
 1 = 'CONUS MHS'
 2 = 'Under Age 6'
 3 = 'Under Age 6-Benchmark'
 4 = '6-12 Years'
 5 = '6-12 Years-Benchmark'
 6 = '13-17 Years'
 7 = 'Prime Enrollees'
 8 = 'Enrollees with Military PCM'
 9 = 'Enrollees with Civilian PCM'
10 = 'Non-enrolled Beneficiaries ';
```

```
VALUE BEN
 1 = 'Getting Needed Care'
 2 = 'Getting Care Quickly'
 3 = 'How Well Doctors Communicate'
 4 = 'Claims Processing'
 5 = 'Courteous and Helpful Office Staff'
 6 = 'Customer Service'
 7 = 'Personal Doctor or Nurse'
 8 = 'Health Care'
 9 = 'Speciality Care'
10 = 'Health Plan'
11 = 'Primary Care Manager'
```

```
;
```

```
VALUE MAJOR
 1 = 'All Children'
 2 = 'Children in New Regions (1, 2, & 5)'
```

```

3 = 'Children in Mature Regions (6, 9-12, & 16)'
4 = 'Children in Other Regions (3, 4, & 7/8)';

RUN;

%LET YEAR = 2002;

DATA OUT.FAKEC;

KEEP MAJGRP ROWCAT BENEFIT BENTYPE SCORE SIG;

LENGTH MAJGRP $ 42
        ROWCAT $ 30
        BENTYPE $ 75;

DO I=1 TO 4;          ** 4 Major groups **;

    MAJGRP=PUT(I,MAJOR.);

    DO J=1 TO 10;     ** Age/Enrollment **;

        ROWCAT=PUT(J,ROWMAT.);

        DO K=1 TO 11; ** 11 Benefits **;

            BENEFIT=PUT(K,BEN.);

            IF K=1 THEN DO;
                BENTYPE="Problems Getting Personal Doctor/Nurse"; OUTPUT;
                BENTYPE="Problems Getting Referral to Specialist"; OUTPUT;
                BENTYPE="Problems Getting Necessary Care"; OUTPUT;
                BENTYPE="Delays in Care While Awaiting Approval"; OUTPUT;
                BENTYPE="&YEAR"; OUTPUT;
                BENTYPE=COMPRESS(%EVAL(&YEAR-1)); OUTPUT;
                BENTYPE=COMPRESS(%EVAL(&YEAR-2)); OUTPUT;
                BENTYPE="Trend"; OUTPUT;
            END;
            ELSE IF K=2 THEN DO;
                BENTYPE="Advice over Telephone"; OUTPUT;
                BENTYPE="Wait for Urgent Care"; OUTPUT;
                BENTYPE="Wait for Routine Visit"; OUTPUT;
                BENTYPE="Wait More Than 15 Minutes Past Appointment"; OUTPUT;
                BENTYPE="&YEAR"; OUTPUT;
                BENTYPE=COMPRESS(%EVAL(&YEAR-1)); OUTPUT;
                BENTYPE=COMPRESS(%EVAL(&YEAR-2)); OUTPUT;
                BENTYPE="Trend"; OUTPUT;
            END;
            ELSE IF K=3 THEN DO;
                BENTYPE="Listens Carefully"; OUTPUT;
                BENTYPE="Explains so you can Understand"; OUTPUT;
                BENTYPE="Explains so your child can Understand"; OUTPUT;
                BENTYPE="Shows Respect"; OUTPUT;
                BENTYPE="Spends Time with your child"; OUTPUT;
                BENTYPE="&YEAR"; OUTPUT;
                BENTYPE=COMPRESS(%EVAL(&YEAR-1)); OUTPUT;
                BENTYPE=COMPRESS(%EVAL(&YEAR-2)); OUTPUT;
            END;
        END;
    END;
END;

```

```

        BENTYPE="Trend"; OUTPUT;
    END;
ELSE IF K=4 THEN DO;
    BENTYPE="Claims Handled in a Reasonable Time"; OUTPUT;
    BENTYPE="Claims Handled Correctly"; OUTPUT;
    BENTYPE="&YEAR"; OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-1)); OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-2)); OUTPUT;
    BENTYPE="Trend"; OUTPUT;
END;
ELSE IF K=5 THEN DO;
    BENTYPE="Courteous and Respectful"; OUTPUT;
    BENTYPE="Helpful"; OUTPUT;
    BENTYPE="&YEAR"; OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-1)); OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-2)); OUTPUT;
    BENTYPE="Trend"; OUTPUT;
END;
ELSE IF K=6 THEN DO;
    BENTYPE="Problem Getting Help from Customer Service"; OUTPUT;
    BENTYPE="Problem Finding/Understanding Written Material"; OUTPUT;
    BENTYPE="Problem with Paperwork"; OUTPUT;
    BENTYPE="&YEAR"; OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-1)); OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-2)); OUTPUT;
    BENTYPE="Trend"; OUTPUT;
END;
ELSE IF K=11 THEN DO;
    BENTYPE="Had a TRICARE PCM"; OUTPUT;
    BENTYPE="Parent Knows Child's PCM's Name"; OUTPUT;
    BENTYPE="Had a 'Big Problem' Getting to See PCM"; OUTPUT;
    BENTYPE="&YEAR"; OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-1)); OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-2)); OUTPUT;
    BENTYPE="Trend"; OUTPUT;
END;
ELSE IF K IN (7,8,9,10) THEN DO;
    BENTYPE="&YEAR"; OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-1)); OUTPUT;
    BENTYPE=COMPRESS(%EVAL(&YEAR-2)); OUTPUT;
    BENTYPE="Trend"; OUTPUT;
END;
END;
END;
END;
SCORE = .;
SIG = .;
RUN;

PROC FREQ;
    TABLES MAJGRP ROWCAT BENTYPE BENEFIT SIG;
RUN;

```

8. MERGE FINAL CAHPS AND PCM VARIABLES FOR CHILD TRICARE CONSUMER REPORTS

```
*****
*
* PROGRAM:  MERGFINC.SAS
* TASK:    2002 DOD HEALTH CARE SURVEY REPORT CARDS (8860-410)
* PURPOSE: Merge the final CAHPS and MPR Scores Databases
*          into the WEB layout preserving the order of the FAKEC.SD2.
*
* WRITTEN: 06/07/2000 BY KEITH RATHBUN
*
* INPUTS:  1) MPR and CAHPS Individual and Composite data sets with adjusted
*          scores, and benchmark data for 2000 DoD HCS.
*          - LOADMPRC.SD2 - MPR Scores Database
*          - LOADCAHC.SD2 - CAHPS Scores Database
*          - BENCHC04.SD2 - 1999 CAHPS Benchmark Database
*          - FAKEC.SD2   - WEB Layout in Column order
*
* OUTPUT:  1) MERGFINC.SD2 - Combined Scores Database in WEB layout
*
* MODIFIED: 1) 07/24/2000 By Keith Rathbun - Adapted from MERGFINL.SAS to
*          reflect the requirements of the Child Report Card.
*          2) 08/24/2001 By Keith Rathbun - Updated for Q3 2000 Child
*          Report Cards.
*          3) 10/31/2002 By Mike Scott and Keith Rathbun - Updated for
*          Q3 2002 Child Report Cards.  Recoded BENTYPE, and deleted
*          recoding for ROWCAT.
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*   - STEP1C.SAS      - Recode questions and generate CAHPS group files
*   - STEP2C.SAS      - Calculate CAHPS individual adjusted scores for groups 1-
8
*   - COMPOSIT.SAS    - Calculate composite adjusted scores for group 1-8
*   - MPRCOMPC.SAS    - Calculate MPR individual and composite scores
*   - LOADMPRC.SAS    - Load MPR individual and composite scores into WEB layout
*   - BENCHC01-04.SAS - Convert 1999 Benchmark Scores into WEB layout
*   - LOADCAHC.SAS    - Convert 2000 CAHPS Scores Database into WEB layout
*
* 2) The output file (MERGFINC.SD2) will be run through the
*   MAKEHTMC.SAS program to generate the WEB pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN00 V612 "..\..\..\Q3_2000\PROGRAMS\LOADWEB";
LIBNAME IN1  V612 ".";
LIBNAME IN2  V612 "CAHPS_CHILDQ32002\DATA";
LIBNAME IN3  V612 "..\REPORTCARDS\MPR_CHILDQ32002";
LIBNAME IN4  V612 "..\BENCHMARK\DATACHILD";
LIBNAME OUT  V612 ".";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* Extract the pre-existing composites from last years file.
*****;
DATA COMP00;
```



```

SET IN00.CONUS_C;
IF BENTYPE = "2000" THEN BENTYPE = "2001";
IF BENTYPE = "1999" THEN BENTYPE = "2000";
IF BENTYPE IN ("2000","2001") AND
    BENEFIT NOT IN("Attitudes Toward TRICARE Prime ",
                  "Waiting times");
    * "Getting Care Quickly");
    IF BENTYPE = "2000" AND
        BENEFIT IN ("Speciality Care") then do;
if rowcat ="Under Age 6" & majgrp ^= "Children in New Regions (1, 2, & 5)" then
sig=0;
if rowcat="6-12 Years" & ^(majgrp in ("All Children","Children in Other Regions
(3, 4, & 7/8)"))
then sig=0; end;
RUN;

*****
* Construct ORDERing variable from WEB layout
*****;
DATA ORDER;
    SET IN1.FAKEC;
    ORDER = _N_;
    LENGTH KEY $200;
    KEY = UPCASE(TRIM(BENEFIT)) ||
          UPCASE(TRIM(BENTYPE)) ||
          UPCASE(TRIM(MAJGRP)) ||
          UPCASE(TRIM(ROWCAT));
    KEEP KEY ORDER;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;

*****
* Merge the Scores Databases
*****;
DATA MERGFINC;
    SET IN2.LOADCAHC(IN=INCAHP02)
        IN3.LOADMPRC(IN=INMPR02)
        IN4.BENCHC04(IN=INBEN00)
        COMP00(IN=INCOMP00);
    SVCAHP02 = INCAHP02;
    SVMPR02 = INMPR02 ;
    SVBEN00 = INBEN00 ;
    SVCMP00 = INCOMP00;
    LENGTH KEY $200;
    KEY = UPCASE(TRIM(BENEFIT)) ||
          UPCASE(TRIM(BENTYPE)) ||
          UPCASE(TRIM(MAJGRP)) ||
          UPCASE(TRIM(ROWCAT));
    IF SCORE = . THEN DELETE;
RUN;

PROC SORT DATA=MERGFINC; BY KEY; RUN;

*****
* Append ORDERing variable to the merged Scores database file
*****;
DATA MERGFINC OUT.MISSING;

```

```

MERGE MERGFINC(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 SVCAHP02 = 1 THEN SOURCE = "CAHPS 2002 ";
IF SVMPR02 = 1 THEN SOURCE = "MPR 2002 ";
IF SVBEN00 = 1 THEN SOURCE = "BENCHMARK 2000";
IF SVCMP00 = 1 THEN SOURCE = "2000 and 2001 COMPOSITES";

*IF FLAG = "IN SCORES DB ONLY" THEN DELETE;

IF IN1 AND NOT IN2 THEN OUTPUT OUT.MISSING; *Missing from layout;
IF IN1 THEN OUTPUT MERGFINC;
RUN;

*****
* Reorder file according to WEB layout
*****;
PROC SORT DATA=MERGFINC OUT=OUT.MERGFINC; BY ORDER; RUN;

DATA FAKEC;
SET IN1.FAKEC;
ORDER = _N_;
RUN;

DATA LAYONLY;
MERGE FAKEC(IN=IN1) OUT.MERGFINC(IN=IN2 KEEP=ORDER);
BY ORDER;
IF IN1 AND NOT IN2;
RUN;

TITLE1 "2002 DOD Health Survey Scores/Report Cards (8860-410)";
TITLE2 "Program Name: MERGFINC.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB
Layout";
TITLE4 "Program Outputs: MERGFINC.SD2 - Merged Final Scores Database for input
to MAKEHTMC.SAS";

TITLE5 "MERGFINC.SD2 Data source counts";
PROC FREQ DATA=OUT.MERGFINC;
TABLES SOURCE FLAG SVCAHP02 SVMPR02 SVBEN00 SVCMP00
SVCAHP02*SVMPR02*SVBEN00*SVCMP00
/MISSING LIST;
RUN;

TITLE5 "MERGFINC.SD2 Data attribute counts";
PROC FREQ DATA=OUT.MERGFINC;
TABLES BENEFIT BENTYPE MAJGRP ROWCAT
/MISSING LIST;
RUN;

TITLE5 "LAYONLY.SD2 Data attribute counts";
PROC FREQ DATA=LAYONLY;

```

```
TABLES BENEFIT BENTYPE MAJGRP ROWCAT  
/MISSING LIST;  
RUN;
```

```
TITLE5 "No matching record found in LAYOUT file (FAKEC.SD2)";  
PROC FREQ DATA=OUT.MISSING;  
TABLES MAJGRP ROWCAT BENTYPE BENEFIT  
MAJGRP*ROWCAT*BENTYPE*BENEFIT  
/MISSING LIST;  
RUN;
```

```
TITLE5 "No matching record found in LAYOUT file (FAKEC.SD2)";  
PROC PRINT DATA=OUT.MISSING;  
VAR MAJGRP ROWCAT BENTYPE BENEFIT;  
RUN;
```

9. CALCULATE SIGNIFICANCE TEST FOR CAHPS SCORES

```
*****
*
* PROGRAM:   SIGNIF_C.SAS
* TASK:     2002 DOD HEALTH CARE SURVEY REPORTING (8860-410)
* PURPOSE:  Perform significance tests for CAHPS scores
*
* WRITTEN:  07/27/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 09/14/2001 BY KEITH RATHBUN, Minor changes to accommodate
*            the Q3 2000 child survey.
*            3) 11/01/2002 BY MIKE SCOTT, Updated to accommodate the
*            Q3 2002 child survey.
*
* INPUTS:   1) MERGFINC.SD2 - MPR and CAHPS Scores Database in WEB layout
*            2) FAKEC.SD2 - Scores Database WEB Layout
*
* OUTPUT:   1) SIGNIF_C.SD2 - Combined Scores Database in WEB layout
*
* NOTES:
*
* 1) This is the 2nd to last program to be run in the scores DB series. All
*    report card records must be merged (MERGFINC.SAS) prior to the
*    significance tests.
*
* 2) The output file (SIGNIF_C.SD2) will be run through the
*    CONUS_C.SAS program to generate the CONUS scores.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN1  V612  ".";
LIBNAME OUT  V612  ".";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER ERRORS=1;

*****
* Append 2002 BENCHMARK records to perform significance tests
*****;
DATA BENCH1(KEEP=T MAJGRP ROWCAT BENEFIT BENTYPE BSCORE BSEMEAN);
  SET IN1.MERGFINC;
  WHERE ROWCAT IN("6-12 Years-Benchmark","Under Age 6-Benchmark")
         AND SVMPR02 = 0 and svcmp00 = 0
         AND BENEFIT NE "Claims Processing";
  LENGTH T $10;
  IF ROWCAT = "6-12 Years-Benchmark" THEN T = "6-12";
  ELSE T = "UNDER 6";
  RENAME SCORE = BSCORE;
  RENAME SEMEAN = BSEMEAN;
RUN;
PROC SORT DATA=BENCH1; BY T MAJGRP BENEFIT BENTYPE; RUN;

DATA BENCH2(KEEP=N_WGT N_OBS T MAJGRP BENEFIT BENTYPE SCORE SEMEAN ORDER);
  SET IN1.MERGFINC;
  WHERE ROWCAT IN("6-12 Years","Under Age 6")
         AND SVMPR02 = 0 and svcmp00 = 0
         AND BENEFIT NE "Claims Processing";
  LENGTH T $10;
```

```

        IF ROWCAT = "6-12 Years" THEN T = "6-12";
        ELSE T = "UNDER 6";
RUN;
PROC SORT DATA=BENCH2; BY T MAJGRP BENEFIT BENTYPE; RUN;

*****
* Extract scores to perform significance tests
*****;
DATA BENCHMRK(KEEP=ORDER SIG);
    MERGE BENCH1(IN=IN1) BENCH2(IN=IN2);
    BY T MAJGRP BENEFIT BENTYPE;
    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 IN1 AND IN2;
RUN;
PROC SORT DATA=BENCHMRK; BY ORDER; RUN;

*****
* Extract MPR records
*****;
/*
DATA MPR;
    SET IN1.MERGFINC;
    BY ORDER;
    WHERE SVMPR02 = 1;
RUN;
PROC SORT DATA=MPR; BY ORDER; RUN;
*/
DATA BENCHMRK;
    MERGE IN1.MERGFINC(IN=IN1) BENCHMRK(IN=IN2);
    BY ORDER;
    IF IN2;
RUN;

*****
* Combine newly created CAHPS SIG values with MPR records
*****;
DATA ALLSCORE;
    SET BENCHMRK IN1.MERGFINC;
    BY ORDER;
RUN;

*****
* Store missing values into SIG and SCORE for FAKE.SD2 records
*****;
DATA FAKEC;
    SET IN1.FAKEC;
    SIG = .;
    SCORE = .;
    ORDER = _N_;
RUN;

DATA FAKEONLY;
    MERGE ALLSCORE(IN=IN1) FAKEC(IN=IN2);
    BY ORDER;

```

```

SOURCE = "FAKE ONLY";
FLAG   = "FAKE ONLY";
IF IN2 AND NOT IN1;
RUN;

DATA OUT.SIGNIF_C;
  SET FAKEONLY ALLSCORE;
  BY ORDER;
  IF FIRST.ORDER; *KRR added 11/14/2001;
RUN;

TITLE1 "2002 DOD Health Survey Scores/Report Cards (8860-410)";
TITLE2 "Program Name: SIGNIF_C.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS data records in WEB Layout";
TITLE4 "Program Outputs: SIGNIF_C.SD2 - Merged Final Scores Database for input
to MAKEHTMC.SAS";

TITLE5 "FREQs of SIGNIF_C.SD2";
PROC FREQ;
  TABLES SIG SOURCE FLAG MAJGRP ROWCAT BENEFIT BENTYPE
  /MISSING LIST;
RUN;

TITLE5 "FREQs of FAKEC.SD2";
PROC FREQ DATA=IN1.FAKEC;
  TABLES MAJGRP ROWCAT BENEFIT BENTYPE
  /MISSING LIST;
RUN;

```

10. CALCULATE SCORES AND SIGNIFICANCE TEST FOR CAHPS CONUS SCORES

```
*****
*
* PROGRAM: CONUS_C.SAS
* TASK: 2002 DOD HEALTH CARE SURVEY REPORTING (8860-410)
* PURPOSE: Generate CAHPS CONUS scores and significance tests
*
* WRITTEN: 07/27/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 09/14/2001 BY KEITH RATHBUN, Updated to accommodate the Q3 2000
* child survey: added claims processing and specialty care and
* updated parameters.
* 2) 11/04/2002 BY MIKE SCOTT, Updated to accommodate the Q3 2002
* child survey.
*
* INPUTS: 1) SIGNIF_C.SD2 - Scores Database in WEB Layout
* 2) MERGFINC.SD2 - Merged Scores Databases in WEB Layout
* 3) FAKEC.SD2 - Scores Database WEB Layout
*
* OUTPUT: 1) CONUS_C.SD2 - Combined CAHPS/MPR Scores Database in WEB layout
* 2) LT30C.SD2 - Records with <= 30 observations
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
* - STEP1C.SAS - Recode questions and generate group files
* - STEP2C.SAS - Calculate individual adjusted scores for group 1-8
* - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
* - MERGFINC.SAS - Merge the final CAHPS and MPR Scores Databases
* - SIGNIF_C.SAS - Perform significance tests for CAHPS scores
*
*****
* Assign data libraries and options
*****;
LIBNAME IN1 V612 ".";
LIBNAME OUT V612 ".";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
*****
*
* Process Macro Input Parameters:
*
* 1) BENTYPE = Benefit Type
* 2) BENEFIT = COMPOSITE Benefit Type
* 3) ROWCAT = Row Category
*
*****
*****;
* Set up empty template file for data merge purposes and set first time flag
*****;
%LET DSN = SIGNIF_C;
DATA INIT;
  SET IN1.&DSN;
  DELETE;
RUN;
%LET FLAG = 0;
```

```

%MACRO PROCESS(BENTYPE=, BENEFIT=, ROWCAT=);
DATA TEMP;
  SET IN1.&DSN END=FINISHED;
  WHERE BENTYPE = "&BENTYPE" AND
        ROWCAT = "&ROWCAT" AND
        BENEFIT = "&BENEFIT" AND
        MAJGRP NE "All Children";
RUN;

DATA TEMP;
  SET TEMP END=FINISHED;
  IF _N_ = 1 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;
  *****
  * Note: For the Child Survey only CONUS were sent surveys
  *****;
  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 FINISHED THEN GOTO FINISHED;
  RETURN;

KEEP MAJGRP ROWCAT BENTYPE BENEFIT SIG SCORE SEMEAN N_OBS N_WGT
  FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY;

FINISHED:
  SCORE = SUMSCOR1/SUMWGT1;
  SEMEAN = SQRT(SUMSE2)/SUMWGT1;
  N_OBS = N_OBS1;
  N_WGT = SUMWGT1;
  SOURCE = "CONUS";
  FLAG = "CONUS";
  MAJGRP = "All Children";
  KEY = UPCASE(TRIM(BENEFIT)) ||
        UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) ||
        UPCASE(TRIM(ROWCAT));
  OUTPUT;
RUN;

%IF &FLAG = 0 %THEN %DO;
  DATA FINAL;
    SET TEMP;
  RUN;
%END;
%ELSE %DO;
  DATA FINAL;
    SET FINAL TEMP;
  RUN;
%END;
%LET FLAG = 1;

```



```

%MEND;

*****
* Process 2002 CONUS Composites
*****
* 1) Create CONUS for Getting Needed Care
*****;

%PROCESS(BENTYPE=2002,
        ROWCAT=Under Age 6                , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=2002,
        ROWCAT=6-12 Years                  , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=2002,
        ROWCAT=13-17 Years                  , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=2002,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=2002,
        ROWCAT=Prime Enrollees             , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=2002,
        ROWCAT=CONUS MHS                   , BENEFIT=Getting Needed Care);

%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,
        ROWCAT=Under Age 6                , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,
        ROWCAT=6-12 Years                  , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,
        ROWCAT=13-17 Years                  , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,
        ROWCAT=Prime Enrollees             , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse,
        ROWCAT=CONUS MHS                   , BENEFIT=Getting Needed Care);

%PROCESS(BENTYPE=Problems Getting Referral to Specialist,
        ROWCAT=Under Age 6                , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist,
        ROWCAT=6-12 Years                  , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist,
        ROWCAT=13-17 Years                  , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist,
        ROWCAT=Prime Enrollees             , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Referral to Specialist,
        ROWCAT=CONUS MHS                   , BENEFIT=Getting Needed Care);

```

```

        ROWCAT=CONUS MHS                , BENEFIT=Getting Needed Care);

%PROCESS(BENTYPE=Problems Getting Necessary Care,
        ROWCAT=Under Age 6                , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Necessary Care,
        ROWCAT=6-12 Years                  , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Necessary Care,
        ROWCAT=13-17 Years                 , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Necessary Care,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Necessary Care,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Necessary Care,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Necessary Care,
        ROWCAT=Prime Enrollees            , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Problems Getting Necessary Care,
        ROWCAT=CONUS MHS                  , BENEFIT=Getting Needed Care);

%PROCESS(BENTYPE=Delays in Care While Awaiting Approval,
        ROWCAT=Under Age 6                , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval,
        ROWCAT=6-12 Years                  , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval,
        ROWCAT=13-17 Years                 , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval,
        ROWCAT=Prime Enrollees            , BENEFIT=Getting Needed Care);
%PROCESS(BENTYPE=Delays in Care While Awaiting Approval,
        ROWCAT=CONUS MHS                  , BENEFIT=Getting Needed Care);

*****
* 2) Create CONUS for Getting Care Quickly
*****;
%PROCESS(BENTYPE=2002,
        ROWCAT=Under Age 6                , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=2002,
        ROWCAT=6-12 Years                  , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=2002,
        ROWCAT=13-17 Years                 , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=2002,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=2002,
        ROWCAT=Prime Enrollees            , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=2002,
        ROWCAT=CONUS MHS                  , BENEFIT=Getting Care Quickly);

%PROCESS(BENTYPE=Advice over Telephone,
        ROWCAT=Under Age 6                , BENEFIT=Getting Care Quickly);

```

```

%PROCESS(BENTYPE=Advice over Telephone,
        ROWCAT=6-12 Years , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Advice over Telephone,
        ROWCAT=13-17 Years , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Advice over Telephone,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Advice over Telephone,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Advice over Telephone,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Advice over Telephone,
        ROWCAT=Prime Enrollees , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Advice over Telephone,
        ROWCAT=CONUS MHS , BENEFIT=Getting Care Quickly);

%PROCESS(BENTYPE=Wait for Urgent Care,
        ROWCAT=Under Age 6 , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Urgent Care,
        ROWCAT=6-12 Years , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Urgent Care,
        ROWCAT=13-17 Years , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Urgent Care,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Urgent Care,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Urgent Care,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Urgent Care,
        ROWCAT=Prime Enrollees , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Urgent Care,
        ROWCAT=CONUS MHS , BENEFIT=Getting Care Quickly);

%PROCESS(BENTYPE=Wait for Routine Visit,
        ROWCAT=Under Age 6 , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit,
        ROWCAT=6-12 Years , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit,
        ROWCAT=13-17 Years , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit,
        ROWCAT=Prime Enrollees , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait for Routine Visit,
        ROWCAT=CONUS MHS , BENEFIT=Getting Care Quickly);

%PROCESS(BENTYPE=Wait More Than 15 Minutes Past Appointment,
        ROWCAT=Under Age 6 , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait More Than 15 Minutes Past Appointment,
        ROWCAT=6-12 Years , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait More Than 15 Minutes Past Appointment,
        ROWCAT=13-17 Years , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait More Than 15 Minutes Past Appointment,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait More Than 15 Minutes Past Appointment,

```

```

        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait More Than 15 Minutes Past Appointment,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait More Than 15 Minutes Past Appointment,
        ROWCAT=Prime Enrollees          , BENEFIT=Getting Care Quickly);
%PROCESS(BENTYPE=Wait More Than 15 Minutes Past Appointment,
        ROWCAT=CONUS MHS                , BENEFIT=Getting Care Quickly);

```

```

*****
* 3) Create CONUS for How Well Doctors communicate
*****;

```

```

%PROCESS(BENTYPE=2002,
        ROWCAT=Under Age 6                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=2002,
        ROWCAT=6-12 Years                 , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=2002,
        ROWCAT=13-17 Years               , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Military PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=2002,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=2002,
        ROWCAT=Prime Enrollees           , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=2002,
        ROWCAT=CONUS MHS                 , BENEFIT=How Well Doctors
Communicate);

%PROCESS(BENTYPE=Listens Carefully,
        ROWCAT=Under Age 6                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Listens Carefully,
        ROWCAT=6-12 Years                 , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Listens Carefully,
        ROWCAT=13-17 Years               , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Listens Carefully,
        ROWCAT=Enrollees with Military PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Listens Carefully,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Listens Carefully,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Listens Carefully,
        ROWCAT=Prime Enrollees           , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Listens Carefully,

```

```

        ROWCAT=CONUS MHS                , BENEFIT=How Well Doctors
Communicate);

%PROCESS(BENTYPE=Explains so you can Understand,
        ROWCAT=Under Age 6                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so you can Understand,
        ROWCAT=6-12 Years                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so you can Understand,
        ROWCAT=13-17 Years                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so you can Understand,
        ROWCAT=Enrollees with Military PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so you can Understand,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so you can Understand,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so you can Understand,
        ROWCAT=Prime Enrollees            , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so you can Understand,
        ROWCAT=CONUS MHS                , BENEFIT=How Well Doctors
Communicate);

%PROCESS(BENTYPE=Explains so your child can Understand,
        ROWCAT=Under Age 6                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand,
        ROWCAT=6-12 Years                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand,
        ROWCAT=13-17 Years                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand,
        ROWCAT=Enrollees with Military PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand,
        ROWCAT=Prime Enrollees            , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Explains so your child can Understand,
        ROWCAT=CONUS MHS                , BENEFIT=How Well Doctors
Communicate);

%PROCESS(BENTYPE=Shows Respect,
        ROWCAT=Under Age 6                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Shows Respect,

```

```

        ROWCAT=6-12 Years                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Shows Respect,
        ROWCAT=13-17 Years                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Shows Respect,
        ROWCAT=Enrollees with Military PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Shows Respect,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Shows Respect,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Shows Respect,
        ROWCAT=Prime Enrollees            , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Shows Respect,
        ROWCAT=CONUS MHS                  , BENEFIT=How Well Doctors
Communicate);

%PROCESS(BENTYPE=Spends Time with your child,
        ROWCAT=Under Age 6                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Spends Time with your child,
        ROWCAT=6-12 Years                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Spends Time with your child,
        ROWCAT=13-17 Years                , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Spends Time with your child,
        ROWCAT=Enrollees with Military PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Spends Time with your child,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Spends Time with your child,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Spends Time with your child,
        ROWCAT=Prime Enrollees            , BENEFIT=How Well Doctors
Communicate);
%PROCESS(BENTYPE=Spends Time with your child,
        ROWCAT=CONUS MHS                  , BENEFIT=How Well Doctors
Communicate);

*****
* 4) Create CONUS for Courteous and Helpful Office Staff
*****;
%PROCESS(BENTYPE=2002,
        ROWCAT=Under Age 6                , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=2002,
        ROWCAT=6-12 Years                , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=2002,
        ROWCAT=13-17 Years                , BENEFIT=Courteous and Helpful
Office Staff);

```

```

%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=2002,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=2002,
        ROWCAT=Prime Enrollees , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=2002,
        ROWCAT=CONUS MHS , BENEFIT=Courteous and Helpful
Office Staff);

%PROCESS(BENTYPE=Courteous and Respectful,
        ROWCAT=Under Age 6 , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Courteous and Respectful,
        ROWCAT=6-12 Years , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Courteous and Respectful,
        ROWCAT=13-17 Years , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Courteous and Respectful,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Courteous and Respectful,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Courteous and Respectful,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Courteous and Respectful,
        ROWCAT=Prime Enrollees , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Courteous and Respectful,
        ROWCAT=CONUS MHS , BENEFIT=Courteous and Helpful
Office Staff);

%PROCESS(BENTYPE=Helpful,
        ROWCAT=Under Age 6 , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Helpful,
        ROWCAT=6-12 Years , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Helpful,
        ROWCAT=13-17 Years , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Helpful,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Helpful,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Helpful,

```

```

        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Helpful,
        ROWCAT=Prime Enrollees          , BENEFIT=Courteous and Helpful
Office Staff);
%PROCESS(BENTYPE=Helpful,
        ROWCAT=CONUS MHS                , BENEFIT=Courteous and Helpful
Office Staff);

```

```

*****
* 5) Create CONUS for Customer Service
*****;

```

```

%PROCESS(BENTYPE=2002,
        ROWCAT=Under Age 6              , BENEFIT=Customer Service);
%PROCESS(BENTYPE=2002,
        ROWCAT=6-12 Years               , BENEFIT=Customer Service);
%PROCESS(BENTYPE=2002,
        ROWCAT=13-17 Years              , BENEFIT=Customer Service);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Customer Service);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Customer Service);
%PROCESS(BENTYPE=2002,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Customer Service);
%PROCESS(BENTYPE=2002,
        ROWCAT=Prime Enrollees          , BENEFIT=Customer Service);
%PROCESS(BENTYPE=2002,
        ROWCAT=CONUS MHS                , BENEFIT=Customer Service);

%PROCESS(BENTYPE=Problem Getting Help from Customer Service,
        ROWCAT=Under Age 6              , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service,
        ROWCAT=6-12 Years               , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service,
        ROWCAT=13-17 Years              , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service,
        ROWCAT=Prime Enrollees          , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Getting Help from Customer Service,
        ROWCAT=CONUS MHS                , BENEFIT=Customer Service);

%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
        ROWCAT=Under Age 6              , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
        ROWCAT=6-12 Years               , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
        ROWCAT=13-17 Years              , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Customer Service);

```



```

%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
        ROWCAT=Prime Enrollees          , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem Finding/Understanding Written Material,
        ROWCAT=CONUS MHS                , BENEFIT=Customer Service);

%PROCESS(BENTYPE=Problem with Paperwork,
        ROWCAT=Under Age 6              , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork,
        ROWCAT=6-12 Years                , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork,
        ROWCAT=13-17 Years              , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork,
        ROWCAT=Prime Enrollees          , BENEFIT=Customer Service);
%PROCESS(BENTYPE=Problem with Paperwork,
        ROWCAT=CONUS MHS                , BENEFIT=Customer Service);

*****
* 7) Create CONUS for Claims Processing
*****;
%PROCESS(BENTYPE=2002,
        ROWCAT=Under Age 6              , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=2002,
        ROWCAT=6-12 Years                , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=2002,
        ROWCAT=13-17 Years              , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Claims Processing);
%PROCESS(BENTYPE=2002,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Claims Processing);
%PROCESS(BENTYPE=2002,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=2002,
        ROWCAT=Prime Enrollees          , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=2002,
        ROWCAT=CONUS MHS                , BENEFIT=Claims Processing);

%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,
        ROWCAT=Under Age 6              , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,
        ROWCAT=6-12 Years                , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,
        ROWCAT=13-17 Years              , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,
        ROWCAT=Enrollees with Military PCM, BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,
        ROWCAT=Enrollees with Civilian PCM, BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,
        ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,
        ROWCAT=Prime Enrollees          , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time,
        ROWCAT=CONUS MHS                , BENEFIT=Claims Processing);

```

```

%PROCESS(BENTYPE=Claims Handled Correctly,
          ROWCAT=Under Age 6                , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled Correctly,
          ROWCAT=6-12 Years                 , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled Correctly,
          ROWCAT=13-17 Years               , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled Correctly,
          ROWCAT=Enrollees with Military PCM, BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled Correctly,
          ROWCAT=Enrollees with Civilian PCM, BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled Correctly,
          ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled Correctly,
          ROWCAT=Prime Enrollees           , BENEFIT=Claims Processing);
%PROCESS(BENTYPE=Claims Handled Correctly,
          ROWCAT=CONUS MHS                 , BENEFIT=Claims Processing);

```

```

*****
* 8) Create CONUS for Health Care
*****;

```

```

%PROCESS(BENTYPE=2002,
          ROWCAT=Under Age 6                , BENEFIT=Health Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=6-12 Years                 , BENEFIT=Health Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=13-17 Years               , BENEFIT=Health Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=Enrollees with Military PCM, BENEFIT=Health Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=Enrollees with Civilian PCM, BENEFIT=Health Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Health Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=Prime Enrollees           , BENEFIT=Health Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=CONUS MHS                 , BENEFIT=Health Care);

```

```

*****
* 9) Create CONUS for Health Plan
*****;

```

```

%PROCESS(BENTYPE=2002,
          ROWCAT=Under Age 6                , BENEFIT=Health Plan);
%PROCESS(BENTYPE=2002,
          ROWCAT=6-12 Years                 , BENEFIT=Health Plan);
%PROCESS(BENTYPE=2002,
          ROWCAT=13-17 Years               , BENEFIT=Health Plan);
%PROCESS(BENTYPE=2002,
          ROWCAT=Enrollees with Military PCM, BENEFIT=Health Plan);
%PROCESS(BENTYPE=2002,
          ROWCAT=Enrollees with Civilian PCM, BENEFIT=Health Plan);
%PROCESS(BENTYPE=2002,
          ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Health Plan);
%PROCESS(BENTYPE=2002,
          ROWCAT=Prime Enrollees           , BENEFIT=Health Plan);
%PROCESS(BENTYPE=2002,
          ROWCAT=CONUS MHS                 , BENEFIT=Health Plan);

```

```

*****
* 10) Create CONUS for Personal Doctor or Nurse
*****;
%PROCESS(BENTYPE=2002,
          ROWCAT=Under Age 6           , BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=2002,
          ROWCAT=6-12 Years           , BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=2002,
          ROWCAT=13-17 Years          , BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=2002,
          ROWCAT=Enrollees with Military PCM, BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=2002,
          ROWCAT=Enrollees with Civilian PCM, BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=2002,
          ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=2002,
          ROWCAT=Prime Enrollees       , BENEFIT=Personal Doctor or Nurse);
%PROCESS(BENTYPE=2002,
          ROWCAT=CONUS MHS             , BENEFIT=Personal Doctor or Nurse);

*****
* 11) Create CONUS for Speciality Care
*****;
%PROCESS(BENTYPE=2002,
          ROWCAT=Under Age 6           , BENEFIT=Speciality Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=6-12 Years           , BENEFIT=Speciality Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=13-17 Years          , BENEFIT=Speciality Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=Enrollees with Military PCM, BENEFIT=Speciality Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=Enrollees with Civilian PCM, BENEFIT=Speciality Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=Non-enrolled Beneficiaries , BENEFIT=Speciality Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=Prime Enrollees       , BENEFIT=Speciality Care);
%PROCESS(BENTYPE=2002,
          ROWCAT=CONUS MHS             , BENEFIT=Speciality Care);

*****
* Store missing values into SIG and SCORE for FAKEC.SD2 records
*****;
DATA FAKEC;
  SET IN1.FAKEC;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  KEY = UPCASE(TRIM(BENEFIT)) ||
        UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP))  ||
        UPCASE(TRIM(ROWCAT));
RUN;

PROC SORT DATA=FAKEC; BY KEY; RUN;
PROC SORT DATA=FAKEC OUT=TEMP(KEEP=ORDER KEY); BY KEY; RUN;
PROC SORT DATA=FINAL; BY KEY; RUN;

```

```

DATA FINAL;
  MERGE FINAL(IN=IN1) TEMP(IN=IN2);
  BY KEY;
  IF IN1 AND IN2;
RUN;

*****
* Append 2002 BENCHMARK records to perform significance tests
*****;
DATA BENCH1(KEEP=T MAJGRP ROWCAT BENEFIT BENTYPE BSCORE BSEMEAN);
  SET IN1.MERGFINC;
  WHERE ROWCAT IN("6-12 Years-Benchmark","Under Age 6-Benchmark")
        AND SVMPR02 = 0;
  LENGTH T $10;
  IF ROWCAT = "6-12 Years-Benchmark" THEN T = "6-12";
  ELSE T = "UNDER 6";
  RENAME SCORE = BSCORE;
  RENAME SEMEAN = BSEMEAN;
RUN;
PROC SORT DATA=BENCH1; BY T MAJGRP BENEFIT BENTYPE; RUN;

DATA BENCH2(KEEP=ORDER KEY N_OBS N_WGT T MAJGRP BENEFIT BENTYPE SCORE SEMEAN
SOURCE FLAG);
  SET FINAL;
  LENGTH T $10;
  IF ROWCAT = "6-12 Years" THEN T = "6-12";
  ELSE T = "UNDER 6";
  IF ROWCAT IN("6-12 Years","Under Age 6") THEN OUTPUT BENCH2;
RUN;
PROC SORT DATA=BENCH2; BY T MAJGRP BENEFIT BENTYPE; RUN;

*****
* Extract scores to perform significance tests
*****;
DATA SIGTESTS(KEEP=ORDER SIG);
  MERGE BENCH1(IN=IN1) BENCH2(IN=IN2);
  BY T MAJGRP BENEFIT BENTYPE;
  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 IN1 AND IN2;
RUN;
PROC SORT DATA=SIGTESTS; BY ORDER; RUN;
PROC SORT DATA=FINAL; BY ORDER; RUN;

DATA SIGTESTS;
  MERGE FINAL(IN=IN1) SIGTESTS(IN=IN2);
  BY ORDER;
  SOURCE = "CONUS_C";
  FLAG = "CONUS_C";
  IF IN1;
  KEEP ORDER KEY MAJGRP ROWCAT BENEFIT BENTYPE N_OBS N_WGT
        FLAG SOURCE SCORE SEMEAN SIG;
RUN;
%LET DSN = SIGNIF_C;
*****

```

```

* Get records from SIGNIF_C.SD2 that are NOT FAKE ONLY
*****;
DATA &DSN;
    SET IN1.&DSN;
    IF FLAG NE "FAKE ONLY";
RUN;
PROC SORT DATA=&DSN; BY ORDER; RUN;

*****
* Combine previously created records with the new file
*****;
DATA COMBINE OUT.LT30C;
    SET &DSN SIGTESTS;
    BY ORDER;
    *****
    * Remove N_OBS < 30 OR N_WGT < 200
    *****;
    IF (N_OBS < 30 OR N_WGT < 200) AND
        (ROWCAT NOT IN("Under Age 6-Benchmark","6-12 Years-Benchmark"))
        THEN OUTPUT OUT.LT30C;
    ELSE OUTPUT COMBINE;
RUN;

PROC SORT DATA=FAKEC; BY ORDER; RUN;
DATA FAKEONLY;
    MERGE COMBINE(IN=IN1) FAKEC(IN=IN2);
    BY ORDER;
    SOURCE = "FAKE ONLY";
    FLAG   = "FAKE ONLY";
    IF IN2 AND NOT IN1;
RUN;

DATA OUT.CONUS_C;
    SET FAKEONLY COMBINE;
    BY ORDER;
    *****
    * Convert CAHPS Composites and Individual to 1-100 scale
    *****;
    IF BENEFIT NE "Primary Care Manager" AND BENTYPE NOT IN ("2000","2001") THEN
        SCORE = 100*(SCORE);
    IF BENEFIT = "Primary Care Manager" THEN DO;
        IF ROWCAT = "Non-enrolled Beneficiaries" THEN SCORE = .P;
        IF ROWCAT IN("Under Age 6-Benchmark","6-12 Years-Benchmark") THEN
            SCORE = .A;
    END;
    IF BENEFIT = "Claims Processing" THEN DO;
        SIG = 0;
        IF ROWCAT IN("Under Age 6-Benchmark","6-12 Years-Benchmark") THEN
            SCORE = .A;
    END;
RUN;

TITLE1 "2002 DOD Health Survey Scores/Report Cards (8860-410)";
TITLE2 "Program Name: CONUS_C.SAS By Keith Rathbun";
TITLE3 "Program Inputs: SIGNIF_C.SD2 - Scores Database in WEB Layout";
TITLE4 "Program Outputs: CONUS_C.SD2 - CONUS Scores Database in WEB layout";

PROC FREQ;

```

```
TABLES FLAG SOURCE SIG BENEFIT BENTYPE MAJGRP ROWCAT  
/MISSING LIST;  
RUN;
```

11. CALCULATE TRENDS

```
*****
*
* PROGRAM:   TREND_C.SAS
* TASK:     2002 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) 11/09/2001 BY KEITH RATHBUN -- Rewritten for Q3 child 2000.
*            3) 11/15/2002 BY MIKE SCOTT and Keith Rathbun -- Updated
*            for Q3 2002 Child Survey.
*
* INPUTS:   1) CONUS_C.SD2 - 2001 and 2002 Scores Databases in WEB layout
*            2) FAKEC.SD2 - Scores Database WEB Layout
*
* OUTPUT:   1) TREND_C.SD2 - Combined Scores Database in WEB layout
*
* NOTES:
*
* 1) All of the scores and load DB programs must be run prior to
*    running this program. All report card records must be merged prior
*    to the trend calculations.
*
* 2) The output file (TREND_C.SD2) will be used by the MAKEHTMC.SAS
*    program to generate the HTML Web pages.
*
*****
* Assign data libraries and options
*****;
LIBNAME IN   V612  ".";
LIBNAME OUT  V612  ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* GLOBAL MACRO VARIABLES
*****;

*** MACRO VARIABLES TO INDICATE VALUE FOR THE YEAR ***;

%LET FULLYR1 = 2000;
%LET FULLYR2 = 2002;

*** ABBREVIATED YEAR MACRO VARIABLES ***;

%LET YR1 = 00;
%LET YR2 = 02;

*****
* Extract records to calculate TRENDS. Trends have already been
* calculated for MPR scores so these records are removed from consideration.
* Also, remove benchmark records.
*****;
DATA TEMP&FULLYR1;
```

```

SET IN.CONUS_C;
WHERE BENTYPE = "&FULLYR1";
IF ROWCAT = "Enrollees with military PCM" THEN
  ROWCAT = "Enrollees with Military PCM";
IF ROWCAT = "Enrollees with civilian PCM" THEN
  ROWCAT = "Enrollees with Civilian PCM";
IF ROWCAT = "Non-enrolled beneficiaries" THEN
  ROWCAT = "Non-enrolled Beneficiaries";
*   IF ROWCAT = "6-12 Years-Benchmark" OR
      ROWCAT = "Under Age 6-Benchmark"
      THEN DELETE;
KEEP MAJGRP ROWCAT BENTYPE BENEFIT SCORE N_OBS N_WGT SEMEAN;
RUN;

PROC SORT DATA=TEMP&FULLYR1;
  BY MAJGRP ROWCAT BENEFIT BENTYPE;
RUN;

DATA TEMP&FULLYR2;
  SET IN.CONUS_C;
  WHERE BENTYPE = "&FULLYR2";
*   IF ROWCAT = "6-12 Years-Benchmark" OR
      ROWCAT = "Under Age 6-Benchmark"
      THEN DELETE;
KEEP MAJGRP ROWCAT BENTYPE BENEFIT SCORE N_OBS N_WGT SEMEAN;
RUN;

PROC SORT DATA=TEMP&FULLYR2;
  BY MAJGRP ROWCAT BENEFIT BENTYPE;
RUN;

*****
* Establish 2000 and 2002 pairs.
*****;
PROC SORT DATA=TEMP&FULLYR1
  OUT=KEY&FULLYR1(KEEP=MAJGRP ROWCAT BENEFIT) NODUPKEY;
  BY MAJGRP ROWCAT BENEFIT;
RUN;

PROC SORT DATA=TEMP&FULLYR2
  OUT=KEY&FULLYR2(KEEP=MAJGRP ROWCAT BENEFIT) NODUPKEY;
  BY MAJGRP ROWCAT BENEFIT;
RUN;

DATA PAIRS;
  MERGE KEY&FULLYR1(IN=IN1) KEY&FULLYR2(IN=IN2);
  BY MAJGRP ROWCAT BENEFIT;
  IF IN1 AND IN2;
RUN;

DATA PAIR&FULLYR1 ONLY&FULLYR1;
  MERGE PAIRS(IN=IN1) TEMP&FULLYR1(IN=IN2);
  BY MAJGRP ROWCAT BENEFIT;
  IF IN1 AND IN2 THEN OUTPUT PAIR&FULLYR1;
  ELSE OUTPUT ONLY&FULLYR1;
RUN;

DATA PAIR&FULLYR2 ONLY&FULLYR2;

```



```

MERGE PAIRS(IN=IN1) TEMP&FULLYR2(IN=IN2);
BY MAJGRP ROWCAT BENEFIT;
IF IN1 AND IN2 THEN OUTPUT PAIR&FULLYR2;
ELSE OUTPUT ONLY&FULLYR2;
RUN;

*****
* Calculate TRENDS keeping only the TREND records
*****;
DATA TREND_C;
  SET PAIR&FULLYR1 PAIR&FULLYR2;
  BY MAJGRP ROWCAT BENEFIT BENTYPE;
  IF BENTYPE = "&FULLYR1" THEN DO;
    SCORE&YR1 = SCORE;
    SE&YR1=SEMEAN;
    N&YR1=N_OBS;
    W&YR1=N_WGT;
  END;
  RETAIN SCORE&YR1 SE&YR1 N&YR1 W&YR1;
  IF BENTYPE = "&FULLYR2" THEN DO;
    SCORE&YR2 = SCORE;
    SE&YR2=SEMEAN;
    N&YR2=N_OBS;
    W&YR2=N_WGT;
  END;
  RETAIN SCORE&YR2 SE&YR2 N&YR2 W&YR2;
  IF BENTYPE = "&FULLYR2" THEN DO;
    BENTYPE = "Trend";
    KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
          UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(ROWCAT));
    FLAG = "TREND";
    SOURCE = "TREND";
    SEMEAN = SQRT(SE&YR1**2+SE&YR2**2);
    N_OBS = MIN(N&YR1,N&YR2);
    N_WGT = MIN(W&YR1,W&YR2);
    SCORE = SCORE&YR2-SCORE&YR1;
    OUTPUT;
  END;
  DROP SCORE&YR1 SCORE&YR2 SE&YR1 SE&YR2 N&YR1 W&YR1 N&YR2 W&YR2;
RUN;
proc sort data=trend_c; by majgrp benefit descending rowcat;
data trend_c(drop=temp test bscore bsemean);
set trend_c; by majgrp benefit;
retain bsemean bscore 0;
if rowcat in ('6-12 Years-Benchmark','Under Age 6-Benchmark') then do;
bsemean=semean; bscore=score;
end;
if rowcat in('6-12 Years','Under Age 6') then do;
TEMP = (SCORE-BSCORE)/(100*SQRT(BSEMEAN**2+SEMEAN**2));
TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1));
SIG = 0;
IF N_OBS >= 30 AND TEST < 0.05 & test ne . THEN SIG = 1;
IF SCORE < BSCORE THEN SIG = -SIG; end;

PROC SORT DATA=TREND_C; BY KEY; RUN;

*****
* Construct ORDERing variable from WEB layout

```

```

*****;
DATA ORDER;
  SET IN.FAKEC;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(ROWCAT));
  KEEP KEY ORDER;
RUN;
PROC SORT DATA=ORDER; BY KEY; RUN;

DATA MERGTRND;
  MERGE TREND_C(IN=IN1) ORDER(IN=IN2);
  BY KEY;
  IF IN1;
RUN;

PROC SORT DATA=MERGTRND; BY ORDER; RUN;
PROC SORT DATA=IN.CONUS_C
  OUT=CONUS_C
  (WHERE=(BENTYPE NE "Trend" /*OR
          (ROWCAT IN("6-12 Years-Benchmark", "Under Age 6-Benchmark") )*/ ));
  BY ORDER;
RUN;

DATA OUT.TREND_C;
  SET CONUS_C MERGTRND;
  BY ORDER;
  IF BENTYPE = "Trend" THEN DO;
    IF ROWCAT IN("Under Age 6-Benchmark", "6-12 Years-Benchmark") THEN DO;
      SIG = 0;
    *   SCORE = .A;
      END;
    IF BENEFIT = "Primary Care Manager" AND
      ROWCAT = "Non-enrolled Beneficiaries" THEN SCORE = .P;
  END;
RUN;

TITLE1 "&FULLYR2 DOD Health Survey Scores/Report Cards (8860-410)";
TITLE2 "Program Name: TREND_C.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS data records in WEB Layout";
TITLE4 "Program Outputs: TREND_C.SD2 - Merged Final Scores Database with TRENDS
for Input to SIGNIF_C.SAS";

TITLE5 "FREQs of TREND_C.SD2";
PROC FREQ;
  TABLES SOURCE FLAG MAJGRP ROWCAT BENEFIT BENTYPE
  /MISSING LIST;
RUN;

TITLE5 "FREQs of FAKEC.SD2";
PROC FREQ DATA=IN.FAKEC;
  TABLES MAJGRP ROWCAT BENEFIT BENTYPE
  /MISSING LIST;
RUN;

```

OPTIONS NOCENTER NODATE LS=133 PS=78;

* PROJECT: 8687-100 DoD Survey of Health Care Beneficiaries, 2000

* PROGRAM: MAKEFMTS.SAS

* DESCRIPTION: This program creates formats for variables and write
* a program EXTRAFMT.SAS
*

* MODIFIED: 1) 02-15-2001 By Keith Rathbun, Update for 2000 survey.

* Added global MACRO variables QTR and DSN. Up the
* number of weights to 62. For now, I am refraining
* from removing the many obsolete pieces of code
* in this program (mainly for historical reasons).

* 2) 04-03-2001 By Keith Rathbun, Update weight variables
* to group in percentile/quartiles.

* 3)10-19-01 By Daniele Beahm, Update to use for 2000
* child survey. The formats for the BWT variable have
* been reassigned because the weights falling within the
* 75th, 90th, and 100th percentiles were too close in value
* to provide meaningful results. Instead of breaking the

formats

* for the BWT variable into quintiles, the fomrats now reflect
* from the low-10th percentile, the >10 to 25th percentile,
* the >25 to 50th percentile and the 50th to highest

percentile.

*

*

* Step 1 - Create formats for weight variables (%let to fill in)

* Step 2 - Create range formats for utilization vars

* Step 3 - Create range formats for age variables

* Step 4 - Create range formats for ID variable

* Step 5 - Create range formats for DATE OF BIRTH

* Step 6 - Create range formats for RATE variables

* Step 7 - Create range formats for SF12 Phys & Mntl Hlth

* Step 8 - Create range formats for Batch Number (BATCH)

* Step 9 - Create range formats for Missing Value Counts

* Step 10 - Create range formats for stratum and population

* Step 11 - Create range formats for CELL

* Step 12 - Create range formats for RADRREG

* Step 13 - Create range formats for Batch Number UADRREG

* Step 14 - Create range formats for Satisfaction Scores

* Step 15 - Create range formats for CELL

* Step 16 - Create range formats for STESMPL TOTSIZE

* Step 17 - Create range formats for STRATUM

* Step 18 - Create range formats for POSTCELL

* Step 19 - Create range formats for NHFF

* Step 20 - Create range formats for SSEX

* Step 21 - Create range formats for utilization vars

* Step 22 - Create range formats for H98112

* Step 23 - Create range formats for utilization vars

* Step 24 - Create range formats for H98043, H98043_R

* Step 25 - Create range formats for SRDATE

* Step 26 - Create range formats for CONUS

* Step 27 - Create range formats for UDMIS

* Step 28 - Create range formats for GRID61 and GRID87 (1999 data)

*

* NOTE: 1) Most SASdate variables (ARVDATE, SCANDATE, SRDATE)
* are formatted using YYMON

* 2) Some formats in this programs are used previously

```

*          and may not be relevant to the 2000 Survey
*
*          CREATES AND INCLUDES:  EXTRAFMT.SAS
*
*****
* Assign global MACRO variable.
*****;

%LET DSN = HCS02c_1;

%let qtr= ..\..\..\;

*****
* Assign SAS I/O libraries and output program.
*****;
libname      in      v612 "&QTR.DATA\CFINAL";
libname      library v612 "&QTR.DATA\CFINAL\FMTLIB";
filename     src     "&QTR.PROGRAMS\CODEBOOK_CHILD\DATA\EXTRAFMT\EXTRAFMT.SAS";

/*****/
/* Step 1.                               */
/* Create formats for weight variables    */
/*****/
%LET WVARs = bwt wrwt wrwt1-wrwt60 ; /* names of wgt variables */
%LET N      = 62;                    /* number of wgt variables */

proc univariate data=IN.&DSN;
  var &WVARs ;
  output out=points min=min1-min&N
             max=max1-max&N
             mean=avg1-avg&N
             q1=q1x1-q1x&N
             median=m1-m&N
             q3=q3x1-q3x&N
             p10=p10x1-p10x&N
             p90=p90x1-p90x&N;
  title 'initial means';
run;
proc print data = points; run;

data cutpts (keep= name min max avg q1 p10 median q3 p90);
  set points;
  array vnmes (*) &WVARs;
  array mins  (*) min1-min&N ;
  array maxs  (*) max1-max&N ;
  array avgs  (*) avg1-avg&N ;
  array p10x  (*) p10x1-p10x&N;
  array q1x   (*) q1x1-q1x&N ;
  array mediax (*) m1-m&N ;
  array q3x   (*) q3x1-q3x&N ;
  array p90x  (*) p90x1-p90x&N;
  length name $8;
  do i = 1 to &N ;
    min   = mins(i);
    max   = maxs(i);

```

```

    avg      = avgs(i);
    p10     = p10x(i);
    q1      = q1x(i);
    median  = mediax(i);
    q3      = q3x(i);
    p90     = p90x(i);
    call vname(vnmes(i), name);
    output;
end;
run;
title "cutpts data set @@@@";
proc print data = cutpts;
run;

*****
* Create a format program EXTRAFMT.SAS
*****;

data _null_;
  set cutpts end=eof;
  minx     = int(min);
  p10x    = int(p10);
  q1x     = int(q1);
  medx    = int(median);
  q3x     = int(q3);
  p90x    = int(p90);
  maxx   = int(max);
  maxp10  = p10x + 1;
  max25   = q1x  + 1;
  max50   = medx + 1;
  max75   = q3x  + 1;
  maxp90  = p90x + 1;
  file src lrecl=90;
  if _n_ = 1 then do;
    put @02  "LIBNAME LIBRARY  v612
'&QTR.PROGRAMS\codebook_child\DATA\EXTRAFMT';"

    /@02  '/* *****/'
    /@02  '/* Project: DOD (8687) */'
    /@02  '/* Program: EXTRAFMT.SAS */'
    /@02  '/* Purpose: Create extra formats needed for codebook */'
    /@02  '/* Note: This program is written by MAKEFMTS.SAS */'
    /@02  '/* Modified: 4/3/2001 By Keith Rathbun, update to use */'
    /@02  '/* quartile and percentile ranges. Removed */'
    /@02  '/* min and max groupings. */'
    /@02  '/* *****/'
    /@02  'PROC FORMAT LIBRARY=LIBRARY;' ;
  end;

*****
*ADDED NEW FORMAT CODE FOR BWT BECAUSE TOP PERCENTILES TOO CLOSE TOGETHER*
*TO BE BROKEN INTO QUINTILES, ALL OTHER WEIGHT VALUES STILL FORMATTED AS *
*QUINTILES *
*****;

if name="BWT" then
  put

```

```

    @02 'VALUE ' name +(-1) 'Q (fuzz=.5) '
/@02 'LOW' @22 "- " @25 p10 @44 "= 'Minimum to 10th Percentile'"
/@02 maxp10 @22 "- " @25 q1 @44 "= '>10th to 25th Percentile'"
/@02 max25 @22 "- " @25 median @44 "= '>25th to 50th Percentile'"
/@02 max50 @22 "- " @25 "HIGH" @44 "= '>50th to 100th Percentile'"
/@02 "OTHER = 'ERROR: NOT GROUPED!!!';"

;

else
  put
    @02 'VALUE ' name +(-1) 'Q (fuzz=.5) '
/@02 'LOW' @22 "- " @25 p10 @44 "= 'Minimum to 10th Percentile'"
/@02 maxp10 @22 "- " @25 q1 @44 "= '>10th to 25th Percentile'"
/@02 max25 @22 "- " @25 median @44 "= '>25th to 50th Percentile'"
/@02 max50 @22 "- " @25 q3 @44 "= '>50th to 75th Percentile'"
/@02 max75 @22 "- " @25 p90 @44 "= '>75th to 90th Percentile'"
/@02 maxp90 @22 "- " @25 "HIGH" @44 "= '>90th to 100th Percentile'"
/@02 "OTHER = 'ERROR: NOT GROUPED!!!';"

;

RUN;

/*****
/* Step 2. */
/* Create range formats for utilization vars: */
/* #nights in hospital,# outpatient visits, */
/* # emergency room visits,# inpatient visits */
/* (mil or civ facility) */
/*****/
data _null_;
file src lrecl=90 mod;
put @02 ' VALUE UTILQ'
    @02 ' . = "No response "'
    @02 ' .A = "Mult response "'
    @02 ' .O = "Out of range "'
    @02 ' .I = "Incomplete grid "'
    @02 ' .N = "NA, valid skip "'
    @02 ' .R = "Don't know "'
    @02 ' .B = "No return "'
    @02 ' .C = "Ques should be skipped"'
    @02 ' 0 = "0"'
    @02 ' 1-19 = "1--19"'
    @02 ' 20-24 = "20--24"'
    @02 ' 25-29 = "25--29"'
    @02 ' 30-39 = "30--39"'
    @02 ' 40-49 = "40--49"'
    @02 ' 50-59 = "50--59"'
    @02 ' 60-69 = "60--69"'
    @02 ' 70-79 = "70--79"'
    @02 ' 80-89 = "80--89"'
    @02 ' 90-99 = "90--99"'
    @02 ' 100-109 = "100--109"'
    @02 ' 110-119 = "110--119"'
    @02 ' 120-129 = "120--129"'

```

```

        /@02 ' 130-139 = "130--139"'
        /@02 ' 140-149 = "140--149"'
        /@02 ' 150-159 = "150--159"'
        /@02 ' 160-169 = "160--169"'
        /@02 ' 170-179 = "170--179"'
        /@02 ' 180-189 = "180--189"'
        /@02 ' 190-199 = "190--199"'
        /@02 ' 200-high = "200 or more"'
        /@02 ' ; '
;
run;

/*****
/* Step 3.
/* Create range formats for age variables
/*****/
data _null_;
file src lrecl=90 mod;
put /@02 ' VALUE AGEQ'
    /@02 ' . = "Missing data" '
    /@02 ' .A = "Mult response "'
    /@02 ' .O = "Out of range "'
    /@02 ' .I = "Incomplete grid "'
    /@02 ' .N = "NA, valid skip "'
    /@02 ' .R = "Don't know "'
    /@02 ' .B = "No return "'
    /@02 ' .C = "Ques should be skipped"'
    /@02 ' 0 -< 1 = "Less than 1 yr" '
    /@02 ' 1- 2 = "01--02" '
    /@02 ' 3- 5 = "03--05" '
    /@02 ' 6-12 = "06--12" '
    /@02 ' 13-17 = "13--17" '
    /@02 ' 18-HIGH= "18 yrs and older" '
    /@02 ' ; '

    /@02 ' VALUE $AGEQQ'
    /@02 ' " " = "Missing data"'
    /@02 ' "000"-< "001" = "Less than 1 yr"'
    /@02 ' "001"- "002" = "001--002"'
    /@02 ' "003"- "005" = "003--005"'
    /@02 ' "006"- "012" = "006--012"'
    /@02 ' "013"- "017" = "013--017"'
    /@02 ' "018" = "18 yrs"'
    /@02 ' ; '
;
run;

/*****
/* Step 4.
/* Create range formats for ID variable
/*****/
data _null_;
file src lrecl=90 mod;
put /@02 ' VALUE IDMATA'
    /@02 " 1-99999999 = '00000001--99999999';"
    /@02 ' VALUE $IDMATAA'
    /@02 " '00000001'-'99999999' = '00000001--99999999';"

```

```

        /@02 ' VALUE IDMATB'
        /@02 " 1-9999      = '0001--9999';"
        /@02 ' VALUE IDMATC'
        /@02 " 1-9999999  = '0000001--9999999';"
    ;
run;

/*****
/* Step 5.
/* Create range formats for DATE OF BIRTH
/* NDOB (numeric data of birth)
*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 " VALUE NDOBQ"
    /@02 "      . = 'No response'"
    /@02 "  LOW -< '01JAN1900'D = '< 1900'"
    /@02 " '01JAN1900'D - '31DEC1904'D = '1900 -- 1904'"
    /@02 " '01JAN1905'D - '31DEC1909'D = '1905 -- 1909'"
    /@02 " '01JAN1910'D - '31DEC1914'D = '1910 -- 1914'"
    /@02 " '01JAN1915'D - '31DEC1919'D = '1915 -- 1919'"
    /@02 " '01JAN1920'D - '31DEC1924'D = '1920 -- 1924'"
    /@02 " '01JAN1925'D - '31DEC1929'D = '1925 -- 1929'"
    /@02 " '01JAN1930'D - '31DEC1934'D = '1930 -- 1934'"
    /@02 " '01JAN1935'D - '31DEC1939'D = '1935 -- 1939'"
    /@02 " '01JAN1940'D - '31DEC1944'D = '1940 -- 1944'"
    /@02 " '01JAN1945'D - '31DEC1949'D = '1945 -- 1949'"
    /@02 " '01JAN1950'D - '31DEC1954'D = '1950 -- 1954'"
    /@02 " '01JAN1955'D - '31DEC1959'D = '1955 -- 1959'"
    /@02 " '01JAN1960'D - '31DEC1964'D = '1960 -- 1964'"
    /@02 " '01JAN1965'D - '31DEC1969'D = '1965 -- 1969'"
    /@02 " '01JAN1970'D - '31DEC1974'D = '1970 -- 1974'"
    /@02 " '01JAN1975'D - '31DEC1979'D = '1975 -- 1979'"
    /@02 " '01JAN1980'D - '31DEC1984'D = '1980 -- 1984'"
    /@02 " '01JAN1985'D - '31DEC1989'D = '1985 -- 1989'"
    /@02 " '01JAN1990'D - '31DEC1994'D = '1990 -- 1994'"
    /@02 " '01JAN1995'D - '31DEC1999'D = '1995 -- 1999' ; "
  ;
run;

/*****
/* Step 6.
/* Create range formats for RATE variables:
/* sampling rate (SMPRATE)
*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE SRATEQ'
    /@02 "      . = '#Should not occur'"
    /@02 "  0 -< .10 = '0.0 -< .10'"
    /@02 " .10 -< .20 = '.10 -< .20'"
    /@02 " .20 -< .30 = '.20 -< .30'"
    /@02 " .30 -< .40 = '.30 -< .40'"
    /@02 " .40 -< .50 = '.40 -< .50'"
    /@02 " .50 -< .60 = '.50 -< .60'"
    /@02 " .60 -< .70 = '.60 -< .70'"
    /@02 " .70 -< .80 = '.70 -< .80'"

```



```

/@02 " .80 -< .90 = '.80 -< .90'"
/@02 " .90 - 1.00 = '.90 - 1.00' ;"
/@02 " VALUE CRATEQ"
/@02 " . = '#Should not occur'"
/@02 " 0 -< 25000 = '< 25000'"
/@02 " 25000 -< 50000 = ' 25000 -< 50000'"
/@02 " 50000 -< 75000 = ' 50000 -< 75000'"
/@02 " 75000 -< 100000 = ' 75000 -<100000'"
/@02 " 100000 -< 125000 = '100000 -<125000'"
/@02 " 125000 -< 150000 = '125000 -<150000'"
/@02 " 150000 -< 175000 = '150000 -<175000'"
/@02 " 175000 -< 200000 = '175000 -<200000'"
/@02 " 200000 -< 225000 = '200000 -<225000'"
/@02 " 225000 -< 250000 = '225000 -<250000'"
/@02 " 250000 -< 275000 = '250000 -<275000'"
/@02 " 275000 -< 300000 = '275000 -<300000'"
/@02 " 300000 -< 325000 = '300000 -<325000'"
/@02 " 325000 -< 350000 = '325000 -<350000'"
/@02 " 350000 -< 375000 = '350000 -<375000'"
/@02 " 375000 -< 400000 = '375000 -<400000'"
/@02 " 400000 -< 425000 = '400000 -<425000'"
/@02 " 425000 -< 450000 = '425000 -<450000'"
/@02 " 450000 -< 475000 = '450000 -<475000'"
/@02 " 475000 -< 500000 = '475000 -<500000' ;"
;
run;

/*****
/* Step 7. */
/* Create range formats for SF12 Phys & Mntl Hlth */
/* SF12PCS and SF12MCS */
/*****
data _null_;
file src lrecl=90 mod;
put /@02 ' VALUE SF12_PQ'
/@02 " . = 'Missing'"
/@02 " Low -< 0 = 'Negative Values'"
/@02 " 0 -< 37.05241 = 'Poor Health'"
/@02 " 37.05241 -< 50.06949 = 'Good Health'"
/@02 " 50.06949 -< 55.50097 = 'Very Good Health'"
/@02 " 55.50097 - High = 'Excellent Health' ;"
/@02 ' VALUE SF12_MQ'
/@02 " . = 'Missing'"
/@02 " Low -< 0 = 'Negative Values'"
/@02 " 0 -< 49.89278 = 'Poor Health'"
/@02 " 49.89278 -< 55.90301 = 'Good Health'"
/@02 " 55.90301 -< 58.20264 = 'Very Good Health'"
/@02 " 58.20264 - High = 'Excellent Health' ;"
;
run;

/*****
/* Step 8 */
/* Create range formats for Batch Number (BATCH) */
/*****
data _null_;

```

```

file src lrecl=90 mod;
put /@02 ' VALUE HATCHQ'
  /@02 "    101-150 = 'Batches: 101 to 150'  "
  /@02 "    151-200 = 'Batches: 151 to 200'  "
  /@02 "    201-250 = 'Batches: 201 to 250'  "
  /@02 "    251-300 = 'Batches: 251 to 300'  "
  /@02 "    301-350 = 'Batches: 301 to 350'  "
  /@02 "    351-400 = 'Batches: 351 to 400'  "
  /@02 "    401-450 = 'Batches: 401 to 450'  "
  /@02 "    451-500 = 'Batches: 451 to 500'  "
  /@02 "    501-550 = 'Batches: 501 to 550'  "
  /@02 "    551-600 = 'Batches: 551 to 600'  "
  /@02 "    601-650 = 'Batches: 601 to 650'  "
  /@02 "    651-700 = 'Batches: 651 to 700'  "
  /@02 "    701-750 = 'Batches: 701 to 750'  "
  /@02 "    751-800 = 'Batches: 751 to 800'  "
  /@02 "    801-850 = 'Batches: 801 to 850'  "
  /@02 "    851-900 = 'Batches: 851 to 900'  "
  /@02 "    901-950 = 'Batches: 901 to 950'  "
  /@02 "    951-999 = 'Batches: 951 to 999'  ;"
;
run;

/*****
/* Step 9
/* Create range formats for Missing Value Counts
/* MISS_1,MISS_4,MISS_6,MISS_7,MISS_8,MISS_9,MISS_TOT
*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE HAMISSQ'
    /@02 "          0 = ' 0 times'  "
    /@02 "          1 = ' 1 time '  "
    /@02 "          2 = ' 2 times'  "
    /@02 "          3 = ' 3 times'  "
    /@02 "          4 = ' 4 times'  "
    /@02 "          5 = ' 5 times'  "
    /@02 "          6 = ' 6 times'  "
    /@02 "          7 = ' 7 times'  "
    /@02 "          8 = ' 8 times'  "
    /@02 "          9 = ' 9 times'  "
    /@02 "         10 = '10 times'  "
    /@02 "         11 = '11 times'  "
    /@02 "         12 = '12 times'  "
    /@02 "         13 = '13 times'  "
    /@02 "         14 = '14 times'  "
    /@02 "         15 = '15 times'  "
    /@02 "         16 = '16 times'  "
    /@02 "         17 = '17 times'  "
    /@02 "         18 = '18 times'  "
    /@02 "         19 = '19 times'  "
    /@02 "         20 = '20 times'  "
    /@02 "         21 = '21 times'  "
    /@02 "         22 = '22 times'  "
    /@02 "         23 = '23 times'  "
    /@02 "         24 = '24 times'  "
    /@02 "         25 = '25 times'  "
    /@02 "         26 = '26 times'  "

```

```

/@02 "          27 = '27 times' "
/@02 "          28 = '28 times' "
/@02 "          29 = '29 times' "
/@02 "          30 = '30 times' "
/@02 "          31 = '31 times' "
/@02 "          32 = '32 times' "
/@02 "          33 = '33 times' "
/@02 "          34 = '34 times' "
/@02 "          35 = '35 times' "
/@02 "          36 = '36 times' "
/@02 "          37 = '37 times' "
/@02 "          38 = '38 times' "
/@02 "          39 = '39 times' "
/@02 "          40-HIGH = '40 or more times' ; "

;
run;

/*****
/* Step 10.
/* Create range formats for stratum and population
/* STRATUM, POPSIZE
*****/
data _null_;
file src lrecl=90 mod;
put /@02 ' VALUE POPQ (fuzz=.5)'
/@02 "          1 - 250 = ' 1--250' "
/@02 "          251 - 500 = ' 251--500' "
/@02 "          501 - 750 = ' 501--750' "
/@02 "          751 - 1000 = ' 751--1000' "
/@02 "          1001 - 2000 = ' 1001--2000' "
/@02 "          2001 - 3000 = ' 2001--3000' "
/@02 "          3001 - 4000 = ' 3001--4000' "
/@02 "          4001 - 5000 = ' 4001--5000' "
/@02 "          5001 - 6000 = ' 5001--6000' "
/@02 "          6001 - 7000 = ' 6001--7000' "
/@02 "          7001 - 8000 = ' 7001--8000' "
/@02 "          8001 - 9000 = ' 8001--9000' "
/@02 "          9001 -10000 = ' 9001--10000' "
/@02 "          10001 -15000 = '10001--15000' "
/@02 "          15001 -20000 = '15001--20000' "
/@02 "          20001 -25000 = '20001--25000' "
/@02 "          25001 -30000 = '25001--30000' "
/@02 "          30001 -40000 = '30001--40000' "
/@02 "          40001 -50000 = '40001--50000' "
/@02 "          50001 -60000 = '50001--60000' "
/@02 "          60001 -70000 = '60001--70000' "
/@02 "          70001 -80000 = '70001--80000' "
/@02 "          80001 -90000 = '80001--90000' "
/@02 "          90001-100000 = '90001--100000' ;"

;
run;

/*****
/* Step 11
/* Create range formats for CELL
*****/
data _null_;

```

```

file src lrecl=90 mod;
put /@02 ' VALUE CELLQ'
  /@02 "      0-1000 = 'DMIS Code: 0 to 1000'  "
  /@02 "     1001-2000 = 'DMIS Code: 1001 to 2000'  "
  /@02 "     2001-3000 = 'DMIS Code: 2001 to 3000'  "
  /@02 "     3001-4000 = 'DMIS Code: 3001 to 4000'  "
  /@02 "     4001-5000 = 'DMIS Code: 4001 to 5000'  "
  /@02 "     5001-6000 = 'DMIS Code: 5001-6000'  "
  /@02 "     6001-7000 = 'DMIS Code: 6001-7000'  "
  /@02 "     7001-8000 = 'DMIS Code: 7001-8000'  "
  /@02 "     8001-9000 = 'DMIS Code: 8001-9000'  "
  /@02 "     9001-10000 = 'DMIS Code: 9001-10000'  "
  /@02 "    10001-12000 = 'DMIS Code: 10001-12000'  "
  /@02 "    12001-13000 = 'DMIS Code: 12001-13000'  "
  /@02 "    13001-14000 = 'DMIS Code: 13001-14000'  "
  /@02 "    14001-15000 = 'DMIS Code: 14001-15000'  "
  /@02 "    15001-16000 = 'DMIS Code: 15001-16000'  "
  /@02 "    16001-17000 = 'DMIS Code: 16001-17000'  "
  /@02 "    18001-19000 = 'DMIS Code: 18001-19000'  "
  /@02 "    19001-20000 = 'DMIS Code: 19001-20000' ;"
;
run;
/*****/
/* Step 12 */
/* Create range formats for RADRREG */
/*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE $RREG'
    /@02 " '01' = 'Resid reg 1'  "
    /@02 " '02' = 'Resid reg 2'  "
    /@02 " '03' = 'Resid reg 3'  "
    /@02 " '04' = 'Resid reg 4'  "
    /@02 " '05' = 'Resid reg 5'  "
    /@02 " '06' = 'Resid reg 6'  "
    /@02 " '07' = 'Resid reg 7'  "
    /@02 " '08' = 'Resid reg 8'  "
    /@02 " '09' = 'Resid reg 9'  "
    /@02 " '10' = 'Resid reg 10'  "
    /@02 " '11' = 'Resid reg 11'  "
    /@02 " '12' = 'Resid reg 12'  "
    /@02 " '13' = 'Resid reg 13'  "
    /@02 " '99' = 'Resid reg 99' ;"
;
run;
/*****/
/* Step 13 */
/* Create range formats for Batch Number UADRREG */
/*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE $UREG'
    /@02 " '01' = 'Unit reg 1'  "
    /@02 " '02' = 'Unit reg 2'  "
    /@02 " '03' = 'Unit reg 3'  "
    /@02 " '04' = 'Unit reg 4'  "
    /@02 " '05' = 'Unit reg 5'  "
    /@02 " '06' = 'Unit reg 6'  "

```

```

    /@02 "      '07'      = 'Unit reg 7'  "
    /@02 "      '08'      = 'Unit reg 8'  "
    /@02 "      '09'      = 'Unit reg 9'  "
    /@02 "      '10'      = 'Unit reg 10' "
    /@02 "      '11'      = 'Unit reg 11' "
    /@02 "      '12'      = 'Unit reg 12' "
    /@02 "      '13'      = 'Unit reg 13' "
    /@02 "      '99'      = 'Unit reg 99' ;"
;
run;
/*****
/* Step 14
/* Create range formats for Satisfaction Scores
*****/
data _null_;
  file src lrecl=90 mod;
  put @02 '  VALUE HKALLQ'
    /@02 "      . = 'No Response'      "
    /@02 "      1  -< 1.5 = 'Strongly Disagree' "
    /@02 "      1.5 -< 2.5 = 'Disagree'      "
    /@02 "      2.5 -< 3.5 = 'Neither'      "
    /@02 "      3.5 -< 4.5 = 'Agree'      "
    /@02 "      4.5 - 5   = 'Strongly Agree' ;"
    /@02 '  VALUE HKTOTQ'
    /@02 "      . = 'No Response'      "
    /@02 "      1  -< 1.5 = 'Poor'      "
    /@02 "      1.5 -< 2.5 = 'Fair'      "
    /@02 "      2.5 -< 3.5 = 'Good'      "
    /@02 "      3.5 -< 4.5 = 'Very Good'  "
    /@02 "      4.5 - 5   = 'Excellent'  ;"
;
run;
/*****
/* Step 15
/* Create range formats for CELL
*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 '  VALUE CELLZ'
    /@02 "      . = 'Missing'  "
    /@02 "      0-9999 = '0--9999' ;"
;
RUN;
/*****
/* Step 16
/* Create range formats for STESMPL TOTSIZE
*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 '  VALUE FMT6X'
    /@02 "      . = 'Missing'  "
    /@02 "      0-999999 = '0--999999' ;"
;
RUN;
/*****
/* Step 17
/* Create range formats for STRATUM
*****/

```

```

data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE FMT7X'
      /@02 "          . = 'Missing'  "
      /@02 "          0-9999999 = '0--9999999'  ;"
  ;
RUN;
/*****/
/* Step 18                                     */
/* Create range formats for POSTCELL          */
/*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE $FMT5X'
      /@02 "          ' ' = 'Missing'  "
      /@02 "          '00001'-'99999' = '00001--99999'  ;"
  ;
RUN;
/*****/
/* Step 19                                     */
/* Create range formats for NHFF              */
/*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE FMT4X'
      /@02 "          . = 'Missing'  "
      /@02 "          0-9999 = '0--9999'  ;"
  ;
RUN;
/*****/
/* Step 20                                     */
/* Create range formats for SSEX              */
/*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE $SEX'
      /@02 "          ' ' = 'Blank'  "
      /@02 "          'Z' = 'Unknown'  "
      /@02 "          'M' = 'Male'    "
      /@02 "          'F' = 'Female'  ;"
  ;
run;
/*****/
/* Step 21.                                   */
/* Create range formats for utilization vars:  */
/* #nights in hospital, # outpatient visits    */
/*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE OOP'
      /@02 '          . = "No response  "'
      /@02 '          .A = "Mult response "'
      /@02 '          .I = "Incomplete grid "'
      /@02 '          .C = "Ques should be skipped "'
      /@02 '          .N = "NA, Valid skip "'
      /@02 '          0 = "0"'
      /@02 '          1-50 = "1 -- 50"'
      /@02 '          51-100 = "51--100"'

```

```

        /@02 ' 101-150 = "101--150"'
        /@02 ' 151-200 = "151--200"'
        /@02 ' 201-300 = "201--300"'
        /@02 ' 301-400 = "301--400"'
        /@02 ' 401-500 = "401--500"'
        /@02 ' 501-1000 = "501--1000"'
        /@02 ' 1001-2000 = "1001--2000"'
        /@02 ' 2001-3000 = "2001--3000"'
        /@02 ' 3001-4000 = "3001--4000"'
        /@02 ' 4001-HIGH = "Over 4000"'
        /@02 ' ; '
;
run;
/*****
/* Step 22.
/* Create range formats for H98112
/*****
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE DAYMIS'
        /@02 ' . = "No response "'
        /@02 ' .A = "Mult response "'
        /@02 ' .I = "Incomplete grid "'
        /@02 ' .C = "Should be skipped"'
        /@02 ' .N = "NA,Valid skip "'
        /@02 ' 0 = "0"'
        /@02 ' 1 = "1"'
        /@02 ' 2 = "2"'
        /@02 ' 3 = "3"'
        /@02 ' 4 = "4"'
        /@02 ' 5 = "5"'
        /@02 ' 6-10 = "6--10"'
        /@02 ' 11-15 = "11--15"'
        /@02 ' 16-30 = "16--30"'
        /@02 ' 31-60 = "31--60"'
        /@02 ' 61-90 = "61--90"'
        /@02 ' 91-HIGH = "More than 90 days"'
        /@02 ' ; '
;
run;
/*****
/* Step 23.
/* Create range formats for utilization vars:
/* # nights in hospital (mil or civ facility)
/* # outpatient visits (mil or civ facility)
/* KRATE_HC KRATE_MD KMIL_HC KRATE_HP KCIV_HC
/*****
data _null_;
  file src lrecl=90 mod;
  put /@02 ' VALUE RATEQ'
        /@02 ' . = "Missing/Unknown"'
        /@02 ' 1 = "Responses of 0 - 6"'
        /@02 ' 2 = "Responses of 7 - 8"'
        /@02 ' 3 = "Responses of 9 - 10"'
        /@02 ' ; '
;
run;

```

```

/*****/
/* Step 24. */
/* Create range formats for H98043, H98043_R */
/*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 " VALUE MONFMT"
  /@02 " .A = 'Mult response' "
  /@02 " .C = 'Should be skipped' "
  /@02 " .I = 'Incomplete grid' "
  /@02 " .N = 'NA, valid skip' "
  /@02 " .O = 'Out of range' "
  /@02 " . = 'No response' "
  /@02 " 0 = '0' "
  /@02 " 1 = '1' "
  /@02 " 2 = '2' "
  /@02 " 3 = '3' "
  /@02 " 4 = '4' "
  /@02 " 5 = '5' "
  /@02 " 6 = '6' "
  /@02 " 7 = '7' "
  /@02 " 8 = '8' "
  /@02 " 9 = '9' "
  /@02 " 10 = '10' "
  /@02 " 11 = '11' "
  /@02 " 12 = '12' "
  /@02 " 13-99 = '13--99' ; "
;
RUN;
/*****/
/* Step 25. */
/* Create range formats for SRDATE */
/*****/
data _null_;
  file src lrecl=90 mod;
  put /@02 " VALUE SRDAT"
  /@02 " .A = 'Mult response' ' "
  /@02 " .C = 'Ques should be skipped' "
  /@02 " .I = 'Incomplete grid' ' "
  /@02 " .N = 'NA, valid skip' ' "
  /@02 " .O = 'Out of range' ' "
  /@02 " .R = "Don't know" " '
  /@02 " . = 'No response' ' "
  /@02 " '01NOV1998'D - '30NOV1998'D = '1998 November' "
  /@02 " '01DEC1998'D - '31DEC1998'D = '1998 December' "
  /@02 " '01JAN1999'D - '31JAN1999'D = '1999 January' "
  /@02 " '01FEB1999'D - '28FEB1999'D = '1999 February' "
  /@02 " '01MAR1999'D - '31MAR1999'D = '1999 March' ' "
  /@02 " '01APR1999'D - '30APR1999'D = '1999 April' ' "
  /@02 " '01MAY1999'D - '31MAY1999'D = '1999 May' ' "
  /@02 " '01JUN1999'D - '30JUN1999'D = '1999 June' ' "
  /@02 " '01JUL1999'D - '31JUL1999'D = '1999 July' ' ; "
;
run;
/*****/
/* Step 26. */
/* Create range formats for CONUS */
/*****/

```



```

data _null_;
  file src lrecl=90 mod;
  put /@02 "  VALUE CONUSF"
      /@02 "      . = 'Missing          ' "
      /@02 "      0 = 'Outside United States ' "
      /@02 "      1 = 'Within United States ' ; "
;
run;

```

```

/*****
/* Step 27.
/* Create range formats for UDMIS
*****/

```

```

data _null_;
  file src lrecl=90 mod;
put /@02 "  VALUE $DMIS          "
    /@02 "      '0001' = 'FOX ACH_REDSTONE ARSENAL' "
    /@02 "      '0002' = 'NOBLE AHC-FT MCCLELLAN ' "
    /@02 "      '0003' = 'LYSTER ACH-FT RUCKER     ' "
    /@02 "      '0004' = '42ND MEDICAL GRP-MAXWELL' "
    /@02 "      '0005' = 'BASSETT ACH-FT WAINWRGT ' "
    /@02 "      '0006' = '3rd MED GRP-ELMENDORF ' "
    /@02 "      '0007' = 'BRMCL ADAK                ' "
    /@02 "      '0008' = 'BLISS ACH-FT HUACHUCA     ' "
    /@02 "      '0009' = '56th MED GRP-LUKE          ' "
    /@02 "      '0010' = '355th MED GRP-DAVIS MONT' "
    /@02 "      '0011' = '82nd MED SQUAD-WILLIAMS ' "
    /@02 "      '0012' = '97th STRAT HOSP-EAKER     ' "
    /@02 "      '0013' = '314th MED GRP-LITTLE ROCK' "
    /@02 "      '0014' = '60th MED GRP-TRAVIS       ' "
    /@02 "      '0015' = '9th MED GRP-BEALE         ' "
    /@02 "      '0016' = '77th MED GRP-MATHER      ' "
    /@02 "      '0017' = '93rd MED GRP-CASTLE     ' "
    /@02 "      '0018' = '30th MED GRP-VANDENBERG ' "
    /@02 "      '0019' = '95th MED GRP-EDWARDS    ' "
    /@02 "      '0020' = '831st MED GRP-GEORGE    ' "
    /@02 "      '0021' = '722nd MED GRP-MARCH     ' "
    /@02 "      '0022' = 'LETTERMAN AHC-PRESIDIO  ' "
    /@02 "      '0023' = 'SILAS B HAYS AHC-FT ORD  ' "
    /@02 "      '0024' = 'NH CAMP PENDLETON        ' "
    /@02 "      '0025' = 'NMCL LONG BEACH         ' "
    /@02 "      '0026' = 'NMCL PORT HUENEME       ' "
    /@02 "      '0027' = 'NH OAKLAND             ' "
    /@02 "      '0028' = 'NH LEMOORE             ' "
    /@02 "      '0029' = 'NMC SAN DIEGO          ' "
    /@02 "      '0030' = 'NH TWENTYNINE PALMS    ' "
    /@02 "      '0031' = 'FITZSIMONS TMC-DENVER  ' "
    /@02 "      '0032' = 'EVANS ACH-FT CARSON     ' "
    /@02 "      '0033' = '10th MED GROUP-USAF ACAD' "
    /@02 "      '0034' = 'USCG CLINIC NEW LONDON ' "
    /@02 "      '0035' = 'NAVAMBCARECEN GROTON   ' "
    /@02 "      '0036' = '436th MED GRP-DOVER    ' "
    /@02 "      '0037' = 'WALTER REED AMC-WASH DC' "
    /@02 "      '0038' = 'NH PENSACOLA          ' "
    /@02 "      '0039' = 'NH JACKSONVILLE      ' "
    /@02 "      '0040' = 'NH ORLANDO            ' "
    /@02 "      '0041' = 'BRMCL KEY WEST        ' "

```

```

/@02 " '0042' = '96th MED GRP-EGLIN ' "
/@02 " '0043' = '325th MED GRP-TYNDALL ' "
/@02 " '0044' = '31st MED GRP-HOMESTEAD ' "
/@02 " '0045' = '6th MED GRP-MACDILL ' "
/@02 " '0046' = '45th MED GRP-PATRICK ' "
/@02 " '0047' = 'EISENHOWER AMC-FT GORDON' "
/@02 " '0048' = 'MARTIN ACH-FT BENNING ' "
/@02 " '0049' = 'WINN ACH-FT STEWART ' "
/@02 " '0050' = '347th MED GRP-MOODY ' "
/@02 " '0051' = '78th MED GRP-ROBINS ' "
/@02 " '0052' = 'TRIPLER AMC-FT SHAFTER ' "
/@02 " '0053' = '366th MED GRP-MOUNTN HOM' "
/@02 " '0054' = 'CHANUTE TTC HOSP ' "
/@02 " '0055' = '375th MED GRP-SCOTT ' "
/@02 " '0056' = 'NH GREAT LAKES ' "
/@02 " '0057' = 'IRWIN ACH-FT RILEY ' "
/@02 " '0058' = 'MUNSON ACH-FT LEAVENWRTH' "
/@02 " '0059' = '22nd MED GRP-MCCONNELL ' "
/@02 " '0060' = 'BLANCHFLD ACH-FT CAMPBLL' "
/@02 " '0061' = 'IRELAND ACH-FT KNOX ' "
/@02 " '0062' = '2nd MED GRP-BARKSDALE ' "
/@02 " '0063' = '23rd MED GRP-ENGLAND ' "
/@02 " '0064' = 'BAYNE-JONES ACH-FT POLK ' "
/@02 " '0065' = '42nd MED GRP-LORING ' "
/@02 " '0066' = '89th MED GRP-ANDREWS ' "
/@02 " '0067' = 'NNMC BETHESDA ' "
/@02 " '0068' = 'NH PATUXENT RIVER ' "
/@02 " '0069' = 'KIMBROUGH ACH-FT MEADE ' "
/@02 " '0070' = 'VAIL TMC-FT DEVENS ' "
/@02 " '0071' = '379th MED GRP-WURTSMITH ' "
/@02 " '0072' = '410th MED GRP-K.I.SAWYER' "
/@02 " '0073' = '81st MED GRP-KEESLER ' "
/@02 " '0074' = '14th MED GRP-COLUMBUS ' "
/@02 " '0075' = 'WOOD ACH-FT LEONARD WOOD' "
/@02 " '0076' = '509th MED GRP-WHITEMAN ' "
/@02 " '0077' = '341st MED GRP-MALMSTROM ' "
/@02 " '0078' = '55th MED GRP-OFFUTT ' "
/@02 " '0079' = '99th MED GRP- OCALLAGHAN' "
/@02 " '0080' = '509th STRAT HOSP-PEASE ' "
/@02 " '0081' = 'PATTERSON ACH-FT MONMTH ' "
/@02 " '0082' = 'WALSON ACH-FT DIX ' "
/@02 " '0083' = '377th MED GRP-KIRTLAND ' "
/@02 " '0084' = '49th MED GRP-HOLLOMAN ' "
/@02 " '0085' = '27th MED GRP-CANNON ' "
/@02 " '0086' = 'KELLER ACH-WEST POINT ' "
/@02 " '0087' = '380th MED GRP-PLATTSBRGH' "
/@02 " '0088' = '416th MED GRP-GRIFFISS ' "
/@02 " '0089' = 'WOMACK AMC-FT BRAGG ' "
/@02 " '0090' = '4th MED GRP-SEY JOHNSON ' "
/@02 " '0091' = 'NH CAMP LEJEUNE ' "
/@02 " '0092' = 'NH CHERRY POINT ' "
/@02 " '0093' = '319th MED GRP-GRAND FRKS' "
/@02 " '0094' = '5th MED GRP-MINOT ' "
/@02 " '0095' = '74th MED GRP-WRGHT-PTRSN' "
/@02 " '0096' = '72nd MED GRP-TINKER ' "
/@02 " '0097' = '97th MED GRP-ALTUS ' "
/@02 " '0098' = 'REYNOLDS ACH-FT SILL ' "
/@02 " '0099' = 'NMCL PHILADELPHIA ' "

```

```

/@02 " '0100' = 'NAVAMBCARECEN NEWPORT ' "
/@02 " '0101' = '20th MED GRP-SHAW ' "
/@02 " '0102' = '354th MED GRP-MYRTLE BCH' "
/@02 " '0103' = 'NH CHARLESTON ' "
/@02 " '0104' = 'NH BEAUFORT ' "
/@02 " '0105' = 'MONCRIEF ACH-FT JACKSON ' "
/@02 " '0106' = '28th MED GRP-ELLSWORTH ' "
/@02 " '0107' = 'BMC NSA MEMPHIS ' "
/@02 " '0108' = 'WM BEAUMONT AMC-FT BLISS' "
/@02 " '0109' = 'BROOKE AMC-FT SAM HOUSTN' "
/@02 " '0110' = 'DARNALL ACH-FT HOOD ' "
/@02 " '0111' = '64th MED GRP-REESE ' "
/@02 " '0112' = '7th MED GRP-DYESS ' "
/@02 " '0113' = '82nd MED GRP-SHEPPARD ' "
/@02 " '0114' = '47th MED GRP-LAUGHLIN ' "
/@02 " '0115' = '67th MED GRP-BERGSTROM ' "
/@02 " '0116' = 'THOMPSN STRAT HSP-CARSWL' "
/@02 " '0117' = '59th MED WING-LACKLAND ' "
/@02 " '0118' = 'NH CORPUS CHRISTI ' "
/@02 " '0119' = '75th MED GRP-HILL ' "
/@02 " '0120' = '1st MED GRP-LANGLEY ' "
/@02 " '0121' = 'MCDONALD ACH-FT EUSTIS ' "
/@02 " '0122' = 'KENNER ACH-FT LEE ' "
/@02 " '0123' = 'DEWITT ACH-FT BELVOIR ' "
/@02 " '0124' = 'NMC PORTSMOUTH ' "
/@02 " '0125' = 'MADIGAN AMC-FT LEWIS ' "
/@02 " '0126' = 'NH BREMERTON ' "
/@02 " '0127' = 'NH OAK HARBOR ' "
/@02 " '0128' = '92nd MED GRP-FAIRCHILD ' "
/@02 " '0129' = '90th MED GRP-F.E. WARREN' "
/@02 " '0130' = 'USCG CLINIC KODIAK ' "
/@02 " '0131' = 'WEED ACH-FT IRWIN ' "
/@02 " '0149' = '0149 ' "
/@02 " '0151' = 'OASD(HEALTH AFFAIRS) ' "
/@02 " '0152' = 'ARMY, OFFICE OF SURG GEN' "
/@02 " '0153' = 'NAVY, OFFICE OF NAVL MED' "
/@02 " '0154' = 'USAF OFFICE OF SURG GEN ' "
/@02 " '0155' = 'USCG, OFF OF CHEIF, OFF ' "
/@02 " '0156' = 'DHHS, BUR PRMY HLTH CAR' "
/@02 " '0157' = 'NOAA, OFFICE OF MED DIR ' "
/@02 " '0161' = 'NTNL PERSNNL RCRDS CNTR ' "
/@02 " '0162' = 'NTNL PERSNNEL RCRDS CNTR' "
/@02 " '0164' = 'NAVAL PERSNNL RCRDS CNTR' "
/@02 " '0165' = 'NAVAL RESRVE PERSNNL CTR' "
/@02 " '0166' = 'MARINE CORPS RESERVE REC' "
/@02 " '0167' = '9TH AIR EVAC SQDRN,CLARK' "
/@02 " '0168' = 'SUBAREA JNT MEDICAL REG ' "
/@02 " '0169' = 'SUBAREA JNT MEDICAL REG ' "
/@02 " '0170' = 'SUBAREA JNT MEDICAL REG ' "
/@02 " '0171' = '0171 ' "
/@02 " '0172' = '86TH AIR EVAC SQUADRON ' "
/@02 " '0173' = '0173 ' "
/@02 " '0190' = 'WYMAN PARK USTF BALTIMOR' "
/@02 " '0191' = 'BRIGHTON MARINE USTF BOS' "
/@02 " '0192' = 'ST JOHNS USTF NASSAU BAY' "
/@02 " '0193' = 'BAYLEY SETON USTF STATEN' "
/@02 " '0194' = 'PACIFIC MED USTF SEATTLE' "
/@02 " '0195' = 'ST MARYS USTF GALVESTON ' "

```

/@02 " '0196' = 'ST JOSEPHS USTF HOUSTON ' "
 /@02 " '0197' = 'ST MARYS USTF PORT ARTHR ' "
 /@02 " '0198' = 'MARTINS POINT USTF PRTLD ' "
 /@02 " '0199' = 'LUTHERAN MED USTF CLEVEL ' "
 /@02 " '0201' = 'ANNISTON AHC-ANNISTON A ' "
 /@02 " '0202' = 'FT GREELY AHC ' "
 /@02 " '0203' = '354th MED GRP-EIELSON ' "
 /@02 " '0204' = 'TMC FT RICHARDSON ' "
 /@02 " '0205' = 'BRMAX NAVSECGRUACT ADAK ' "
 /@02 " '0206' = 'YUMA PROVING GROUND AHC ' "
 /@02 " '0207' = 'PINE BLUFF ARSENAL AHC ' "
 /@02 " '0208' = 'BRMCL MCB CAMP PENDLETON ' "
 /@02 " '0209' = 'NBMC BARSTOW ' "
 /@02 " '0210' = 'BRMCL EDSON RANGE ANNEX ' "
 /@02 " '0211' = 'BRMAX WPNSTA SEAL BEACH ' "
 /@02 " '0212' = 'BRMCL NAVWPN CHINA LAKE ' "
 /@02 " '0213' = 'NMCL LONG BEACH ' "
 /@02 " '0214' = 'BRMAX NAVFAC CORONA ' "
 /@02 " '0215' = 'BRMAX MCAS TUSTIN ' "
 /@02 " '0217' = 'BRMCL NAS POINT MUGU ' "
 /@02 " '0218' = 'AHC FT CHAFFEE ' "
 /@02 " '0219' = 'BRMCL NAS MOFFETT FIELD ' "
 /@02 " '0220' = 'BRMCL NAS ALAMEDA ' "
 /@02 " '0221' = 'BRMCL NSC OAKLAND MARE I ' "
 /@02 " '0222' = 'NBMC CONCORD ' "
 /@02 " '0223' = 'BRMCL NAVCOMMSTA STOCKTN ' "
 /@02 " '0224' = 'BRMCL NAVSECGRUACT SKAGG ' "
 /@02 " '0225' = 'BRMCL NSC OAKLAND ' "
 /@02 " '0227' = 'BRMCL NAVFAC PT SUR ' "
 /@02 " '0228' = 'NMAU NAVFAC CENTRVLL BCH ' "
 /@02 " '0230' = 'NBMC MCRD SAN DIEGO ' "
 /@02 " '0231' = 'NBMC NAS NORTH ISLAND ' "
 /@02 " '0232' = 'NBMC NAS MIRAMAR ' "
 /@02 " '0233' = 'NBMC CORONADO ' "
 /@02 " '0234' = 'BRMCL NAVSTA SAN DIEGO ' "
 /@02 " '0235' = '750th MED SQUAD-ONIZUKA ' "
 /@02 " '0236' = 'BRMCL NSC SAN DIEGO ' "
 /@02 " '0237' = 'BRMCL FLEASWTRACENPAC SD ' "
 /@02 " '0239' = 'NBMC EL CENTRO ' "
 /@02 " '0240' = 'BRMCLANX NAVOCEANSYS SD ' "
 /@02 " '0241' = 'OAKLAND AHC ' "
 /@02 " '0242' = 'SACRAMENTO ARMY DEPOT ' "
 /@02 " '0243' = 'SHARPE ARMY DEPOT AHC ' "
 /@02 " '0244' = 'SIERRA ARMY DEPOT AHC ' "
 /@02 " '0245' = 'TRACY DEFENSE DEPOT AHC ' "
 /@02 " '0246' = 'HUNTER-LIGGETT AHC ' "
 /@02 " '0247' = 'MONTEREY AHC ' "
 /@02 " '0248' = '61st MED SQD-LOS ANGELES ' "
 /@02 " '0249' = '63rd MED GRP-NORTON ' "
 /@02 " '0250' = '77th MED GRP-MCCLELLAN ' "
 /@02 " '0251' = '3415th MED SQUAD-LOWRY ' "
 /@02 " '0252' = '21st MED GRP-PETERSON ' "
 /@02 " '0253' = 'BRMCL NAVNUPWRTRAU WINDS ' "
 /@02 " '0254' = 'LEWES NRM/BC ' "
 /@02 " '0255' = 'MCNAIR AHC ' "
 /@02 " '0256' = 'PENTAGON AHC ' "
 /@02 " '0257' = 'BRMCL NAVSECSTA WASHNGTN ' "
 /@02 " '0258' = 'NMCL WASHINGTON ' "

/@02 " '0259' = 'NBMA NRL WASHINGTON ' "
 /@02 " '0260' = 'BRMCL NAS PENSACOLA ' "
 /@02 " '0261' = 'NBMC MILTON WHITING FLD ' "
 /@02 " '0262' = 'NAVAL AVIATION-PENSACOLA ' "
 /@02 " '0264' = 'BRCL NTTC CORRY ST-DUP05 ' "
 /@02 " '0265' = 'BRMCL NAVCOAST PANAMA CI ' "
 /@02 " '0266' = 'BRMCL NAS JACKSONVILLE ' "
 /@02 " '0267' = 'BRMCL NAS CECIL-JACKSNVL ' "
 /@02 " '0268' = 'NBMC SAN NICOLAS ISLAND ' "
 /@02 " '0269' = 'NBMC YUMA ' "
 /@02 " '0270' = 'BRMCL NTC ORLANDO ' "
 /@02 " '0271' = 'BRMCL NTC ANNEX ORLANDO ' "
 /@02 " '0272' = 'TUTTLE AHC-HUNTER AB ' "
 /@02 " '0273' = 'AHC FT MCPHERSON ' "
 /@02 " '0274' = 'USAHC FORT GILLEM ' "
 /@02 " '0275' = 'NBMC ALBANY ' "
 /@02 " '0276' = 'NBMC ATHENS ' "
 /@02 " '0277' = 'NBMC MARIETTA ' "
 /@02 " '0278' = 'POHAKULOA TMC ' "
 /@02 " '0279' = 'OAHU NMAU ' "
 /@02 " '0280' = 'NMCL PEARL HARBOR ' "
 /@02 " '0281' = 'BRMCL NAS BARBERS PT ' "
 /@02 " '0282' = 'KUNIA NRM/BC ' "
 /@02 " '0283' = 'BRMAX NAVMAG LUALAULEI ' "
 /@02 " '0284' = 'BRMAX NAVCAMS EASTPAC ' "
 /@02 " '0285' = 'BRMCL MCAS KANEOHE BAY ' "
 /@02 " '0286' = 'KILAUEA TMC ' "
 /@02 " '0287' = '15th MED GRP-HICKAM ' "
 /@02 " '0288' = 'USAHC GRANITE CITY SPT ' "
 /@02 " '0289' = 'SHERIDAN AHC-FT SHERIDN ' "
 /@02 " '0290' = 'ROCK ISLAND ARSENAL AHC ' "
 /@02 " '0291' = 'USAHC ROCKY MT. ARSENAL ' "
 /@02 " '0292' = 'BRMCL NAS GLENVIEW ' "
 /@02 " '0293' = '305th MED SQUAD-GRISSOM ' "
 /@02 " '0294' = 'HAWLEY AHC-FT HARRISON ' "
 /@02 " '0295' = 'LEX-BLUE GRASS ARMY DEP ' "
 /@02 " '0296' = 'BLUE GRASS DEPOT AHC ' "
 /@02 " '0297' = 'NMCL NEW ORLEANS ' "
 /@02 " '0298' = 'NBMC WINTER HARBOR ' "
 /@02 " '0299' = 'BRMCL NAS BRUNSWICK ' "
 /@02 " '0300' = 'NBMC EAST MACHIAS ' "
 /@02 " '0301' = 'NBMC INDIAN HEAD ' "
 /@02 " '0302' = 'NBMA CARDEROCK ' "
 /@02 " '0303' = 'NBMA WHITE OAK ' "
 /@02 " '0304' = 'CHELTENHAM NNM/BC ' "
 /@02 " '0305' = 'TMC11-DAHLONEGA-FT BENNG ' "
 /@02 " '0306' = 'NMCL ANNAPOLIS ' "
 /@02 " '0307' = 'RITCHIE AHC-FT RITCHIE ' "
 /@02 " '0308' = 'KIRK AHC-ABERDN PRVNG GD ' "
 /@02 " '0309' = 'AHC FT DETRICK ' "
 /@02 " '0310' = '66th MED GRP-HANSCOM ' "
 /@02 " '0311' = 'NATICK AHC ' "
 /@02 " '0312' = 'BRMCL NAS SOUTH WEYMOUTH ' "
 /@02 " '0313' = 'SELFRIEDGE AHC-SELFRIEDGE ' "
 /@02 " '0314' = 'BRMCL NAF DETROIT ' "
 /@02 " '0315' = 'DULUTH USAF/HDC ' "
 /@02 " '0316' = 'NBMC GULFPORT ' "
 /@02 " '0317' = 'NBMC MERIDIAN ' "

/@02 " '0318' = 'MISSOURI HEALTH CLINIC ' "
 /@02 " '0319' = 'NBMC FALLON ' "
 /@02 " '0320' = 'HAWTHORNE AHC ' "
 /@02 " '0321' = 'NAVAMBCARE PORTSMOUTH NH' "
 /@02 " '0322' = 'NBMC COLTS NECK EARLE-MA' "
 /@02 " '0323' = 'BRMCL NAVAIRPROP TRENTON' "
 /@02 " '0324' = 'BAYONNE AHC ' "
 /@02 " '0325' = 'PICATINNY ARSENAL AHC ' "
 /@02 " '0326' = '305th MED GRP-MCGUIRE ' "
 /@02 " '0327' = 'AHC MCAFEE-WHITE SANDS ' "
 /@02 " '0328' = 'NBMC BALLSTON SPA ' "
 /@02 " '0329' = 'AHC WATERVLIET ' "
 /@02 " '0330' = 'GUTHRIE AHC-FT DRUM ' "
 /@02 " '0331' = 'HANCOCK USAF/HDC ' "
 /@02 " '0332' = 'BRMCL OHPMU CAMP LEJEUNE' "
 /@02 " '0333' = 'BRMCL MCAS NEW RIVER ' "
 /@02 " '0334' = 'CAPE HATTERAS NRMC/BC ' "
 /@02 " '0335' = '43RD MEDICAL GROUP -POPE' "
 /@02 " '0336' = 'USAHC DCSC COLUMBUS ' "
 /@02 " '0337' = 'NMCL KINGS BAY ' "
 /@02 " '0338' = '71st MED GRP-VANCE ' "
 /@02 " '0339' = 'MCALESTER AHC-FT MCALES ' "
 /@02 " '0340' = 'MCALESTER NRMC/BC ' "
 /@02 " '0341' = 'UMATILLA ARMY DEPOT OHC ' "
 /@02 " '0342' = 'BRMCL NAVADMINU IDAHO FL' "
 /@02 " '0343' = 'BRMCL NAVFAC COOS HEAD ' "
 /@02 " '0344' = 'NBMC LEAGUE ISLAND ' "
 /@02 " '0345' = 'BRMCL NAVAIRDEV WARMNSTR' "
 /@02 " '0346' = 'BRMCL NAVPUBFORM PHILADL' "
 /@02 " '0347' = 'NBMC WILLOW GROVE ' "
 /@02 " '0348' = 'NBMC MECHANICSBURG ' "
 /@02 " '0349' = 'BRMCL NAVDAMCONTR PHILAD' "
 /@02 " '0350' = 'INDIANTOWN GAP AHC ' "
 /@02 " '0351' = 'LETTERKENNY ARMY DEPOT ' "
 /@02 " '0352' = 'DUNHAM AHC-CARLISLE BRCK' "
 /@02 " '0353' = 'TOBYHANNA ARMY DEPOT AHC' "
 /@02 " '0354' = 'BRMCL NUSC NEWPORT ' "
 /@02 " '0355' = 'BRMCL CBC DAVISVILLE ' "
 /@02 " '0356' = '437th MED GRP-CHARLESTON' "
 /@02 " '0357' = 'MDCL WPNSCEN CRANE ' "
 /@02 " '0358' = 'BRMCL MCRD PARRIS ISLAND' "
 /@02 " '0359' = 'BRMCL NAVSTA CHARLESTON ' "
 /@02 " '0360' = 'BRMCL MCAS BEAUFORT ' "
 /@02 " '0361' = 'BRMCL NAS MEMPHIS ' "
 /@02 " '0362' = 'RED RIVER ARMY DEPOT AHC' "
 /@02 " '0363' = '70TH MED SQUAD-BROOKS ' "
 /@02 " '0364' = '17th MED GRP-GOODFELLOW ' "
 /@02 " '0365' = '76th MED GRP-KELLY ' "
 /@02 " '0366' = '12th MED GRP-RANDOLPH ' "
 /@02 " '0367' = 'MDCL NAVNCF INDIANAPOLIS' "
 /@02 " '0368' = 'BRMCL NAS CHASE FLD-BEVL' "
 /@02 " '0369' = 'NBMC KINGSVILLE ' "
 /@02 " '0370' = 'NBMC FORT WORTH ' "
 /@02 " '0371' = 'DUGWAY PROVNG GROUND AHC' "
 /@02 " '0372' = 'MONROE AHC-FT MONROE ' "
 /@02 " '0373' = 'AHC DEF GEN SUP CNTR ' "
 /@02 " '0374' = 'AHC FT PICKETT ' "
 /@02 " '0375' = 'AP HILL AHC ' "

/@02 " '0376' = 'OCC NSG OFC-CHARLOTTE SVL' "

/@02 " '0377' = 'NAS NORFOLK NRM/BC' "

/@02 " '0378' = 'NBMC LITTLE CREEK' "

/@02 " '0379' = 'BRMCL NSC NORFOLK' "

/@02 " '0380' = 'NBMC NSY NORFOLK' "

/@02 " '0381' = 'NBMC YORKTOWN' "

/@02 " '0382' = 'NBMC DAM NECK' "

/@02 " '0383' = 'ATLANTIC NRM/BC' "

/@02 " '0384' = 'NBMA ARLINGTON ANNEX' "

/@02 " '0385' = 'NMCL QUANTICO' "

/@02 " '0386' = 'NBMC DAHLGREN' "

/@02 " '0387' = 'NBMC OCEANA' "

/@02 " '0388' = 'SUBACT LANFLT-NORFOLK' "

/@02 " '0389' = 'AHC DAVIDSON-FT BELVOIR' "

/@02 " '0390' = 'ANDREW RADER AHC-FT MYER' "

/@02 " '0391' = 'USAHC ARLINGTON HALL' "

/@02 " '0392' = 'CAMERON STATION AHC' "

/@02 " '0393' = 'VINT HILL FARMS STA AHC' "

/@02 " '0394' = 'YAKIMA FIRING CENTER AHC' "

/@02 " '0395' = '62nd MED GRP-MCCHORD' "

/@02 " '0396' = 'NMCL SEATTLE' "

/@02 " '0397' = 'NBMC KEYPORT' "

/@02 " '0398' = 'NBMC PUGET SOUND' "

/@02 " '0399' = 'BRMCL NAVFAC PACIFIC BCH' "

/@02 " '0400' = 'MDCL ORDSTA LOUISVILLE' "

/@02 " '0401' = 'NBMC LAKEHURST' "

/@02 " '0402' = 'BRMCL VAEXTCAR ST ALBANS' "

/@02 " '0403' = 'BRMCL NAVSTA NEW YORK' "

/@02 " '0404' = 'NBMA SUGAR GROVE' "

/@02 " '0405' = 'NBMC MAYPORT' "

/@02 " '0407' = 'NBMC NTC SAN DIEGO' "

/@02 " '0408' = 'AHC SENECA' "

/@02 " '0411' = 'NMCL SAN FRANCISCO' "

/@02 " '0413' = '11TH MED GRP-BOLLING' "

/@02 " '0414' = 'NBMA NALF SAN CLEMENTE' "

/@02 " '0415' = 'NBMC BRIDGEPORT' "

/@02 " '0416' = 'MOBILE USCG CLINIC' "

/@02 " '0417' = 'KETCHIKAN USCG CLINIC' "

/@02 " '0418' = 'USCG CLINIC ALAMEDA' "

/@02 " '0419' = 'PETALUMA USCG CLINIC' "

/@02 " '0420' = 'USCG CLINIC DIST OF COL' "

/@02 " '0421' = 'USCG CLINIC AIR ST MIAMI' "

/@02 " '0422' = 'CLEARWATER USCG CLINIC' "

/@02 " '0423' = 'NEW ORLEANS USCG CLINIC' "

/@02 " '0424' = 'USCG CLINIC BALTIMORE' "

/@02 " '0425' = 'USCG CLINIC CAPE COD' "

/@02 " '0426' = 'BOSTON USCG CLINIC' "

/@02 " '0427' = 'TRAVERSE CITY USCG CLINIC' "

/@02 " '0428' = 'CAPE MAY USCG CLINIC' "

/@02 " '0429' = 'USCG CLINIC GOVERNORS ISL' "

/@02 " '0430' = 'ELIZABETH CITY USCG CLINIC' "

/@02 " '0431' = 'ASTORIA USCG CLINIC' "

/@02 " '0432' = 'PORTSMOUTH USCG CLINIC' "

/@02 " '0433' = 'YORKTOWN USCG CLINIC' "

/@02 " '0434' = 'PORT ANGELES USCG CLINIC' "

/@02 " '0435' = 'SEATTLE USCG CLINIC' "

/@02 " '0436' = 'BRMCL NAS BELLE CHASE' "

/@02 " '0437' = 'SCHOFIELD BARRACKS AHC' "

/@02 " '0438' = 'HAMILTON AINESWORTH AHC ' "
 /@02 " '0439' = 'USAHC WATERTOWN ARSENAL ' "
 /@02 " '0440' = 'STEWART SUBPOST AHC ' "
 /@02 " '0441' = 'NEW CUMBERLAND ARMY DEPT' "
 /@02 " '0442' = 'PHILADELPHIA DPC ' "
 /@02 " '0443' = 'TOOELE ARMY DEPOT AHC ' "
 /@02 " '0444' = 'OGDEN AHC ' "
 /@02 " '0445' = 'USAF DENTAL CLN COLUMBUS' "
 /@02 " '0446' = 'KINGSLEY FIELD USAF/HDC ' "
 /@02 " '0447' = 'CRAIG USAF/HDC ' "
 /@02 " '0448' = 'KINCHELOE USAF/HDC ' "
 /@02 " '0449' = '24th MED GRP-HOWARD ' "
 /@02 " '0450' = 'NBDC NEW LONDON ' "
 /@02 " '0451' = 'BRDCL NAVAL ACADEMY ' "
 /@02 " '0452' = 'BRDCL NAS PATUXENT RIVER' "
 /@02 " '0453' = 'BRDCL NAS WHIDBEY ISLAND' "
 /@02 " '0454' = 'BRDCL NAVSTA SEATTLE ' "
 /@02 " '0455' = 'BRDCL MCAS CHERRY POINT ' "
 /@02 " '0456' = 'NDC NORFOLK ' "
 /@02 " '0457' = 'NDC CAMP PENDLETON ' "
 /@02 " '0458' = 'BRDCL LONG BEACH ' "
 /@02 " '0459' = 'BRDENCL PHILADELPHIA ' "
 /@02 " '0460' = 'BRDCL NAS MEMPHIS ' "
 /@02 " '0461' = 'NBDC PORTSMOUTH NH ' "
 /@02 " '0462' = 'NBMC CLEVELAND ' "
 /@02 " '0463' = 'NRM/BC FLT MAR FRC PAC ' "
 /@02 " '0464' = 'AHC FT STORY ' "
 /@02 " '0465' = 'BRDCL NAS SOUTH WEYMOUTH' "
 /@02 " '0466' = 'NBDC BRUNSWICK ' "
 /@02 " '0467' = 'NBDC WINTER HARBOR ' "
 /@02 " '0468' = 'BRDCL NAVSTA ADAK ' "
 /@02 " '0469' = 'BRDCL NAS LEMOORE ' "
 /@02 " '0470' = 'USADC FT SHAFTER ' "
 /@02 " '0471' = 'USADC FT MCCOY ' "
 /@02 " '0475' = 'BRDCL NAVACT LONDON ' "
 /@02 " '0476' = 'NDC PEARL HARBOR ' "
 /@02 " '0477' = 'BRDCL MCDEC QUANTICO ' "
 /@02 " '0478' = 'NBDC PORT HUENEME ' "
 /@02 " '0480' = 'WEBB AFB ' "
 /@02 " '0481' = 'TMC ABERDEEN PROVNG GRND' "
 /@02 " '0484' = 'NDC NEWPORT ' "
 /@02 " '0485' = 'NDC SAN DIEGO ' "
 /@02 " '0486' = 'NDC CHARLESTON ' "
 /@02 " '0487' = 'BDC ORLANDO ' "
 /@02 " '0488' = 'NDC SOUTHEAST ' "
 /@02 " '0489' = 'NDC NORTHWEST ' "
 /@02 " '0490' = 'NDC PENSACOLA ' "
 /@02 " '0491' = 'NDC PARRIS ISLAND ' "
 /@02 " '0492' = 'NDC CAMP LEJEUNE ' "
 /@02 " '0493' = 'BRDCL SAN FRANCISCO ' "
 /@02 " '0494' = 'NDC GREAT LAKES ' "
 /@02 " '0495' = 'NNDC BETHESDA ' "
 /@02 " '0499' = 'BRDCL MCB CAMP H M SMITH' "
 /@02 " '0500' = 'NBDC SUPSHIP PASCAGOULA ' "
 /@02 " '0501' = 'NRDC/BDC SCOTIA ' "
 /@02 " '0505' = 'BRMCL LAFAYETTE RIVER ' "
 /@02 " '0506' = 'BRCL MCFMF 2ND MARIN DIV' "
 /@02 " '0507' = 'BRCL MCFMF CAMP LEJEUNE ' "


```

/@02 " '0508' = 'NBMC NAVSTA SEWELLS      '  "
/@02 " '0509' = 'NBMC SEAL BEACH          '  "
/@02 " '0510' = 'NBMC EL TORO              '  "
/@02 " '0511' = 'BRMCL WPNSTA CHARLESTON  '  "
/@02 " '0512' = 'BRMCL NAVSHIPYD CHARLSTN'  "
/@02 " '0513' = 'BRMCL NAVTECHTRN PENSACO'  "
/@02 " '0514' = 'NMCL WASH, DUP-SEE 0703  '  "
/@02 " '0515' = 'NBMA NAVSEC WASHINGTON   '  "
/@02 " '0516' = 'BRMCL NAVSTA MARE ISLAND'  "
/@02 " '0517' = 'NBMC KEY WEST             '  "
/@02 " '0518' = 'BRMAX NCTC GREAT LAKES  '  "
/@02 " '0519' = 'NBMC CHESAPEAKE         '  "
/@02 " '0520' = 'BRMCL NALF CROWS LANDING' "
/@02 " '0521' = 'BH GULFPORT          '  "
/@02 " '0522' = 'NBMC ANDREWS AFB         '  "
/@02 " '0523' = 'BRMCL NTC GRT LAKES EX19' "
/@02 " '0524' = 'NBMA BARKING SANDS    '  "
/@02 " '0525' = 'BRMCL BANCRIPT GAKK,USNA' "
/@02 " '0526' = 'BRMCL SAN FRANCISCO    '  "
/@02 " '0527' = 'BRMAX PASCAGOULA       '  "
/@02 " '0528' = 'BRMCL NSY PEARL HARBOR  '  "
/@02 " '0529' = 'BRMCL WPNSTAX ST JULIENS' "
/@02 " '0530' = 'BRCL NSSF SAN DIEGO    '  "
/@02 " '0531' = 'TMC-3,NO 25th, SCHOFIELD' "
/@02 " '0532' = 'TMC-2, QUAD B, SCHOFIELD' "
/@02 " '0533' = 'TMC SOUTH 25TH HI       '  "
/@02 " '0534' = 'TMC-1,SCHOF 25th-SCHOFLD' "
/@02 " '0535' = '25TH INF DIV HI        '  "
/@02 " '0536' = '25TH INF DIV OFF HI     '  "
/@02 " '0537' = 'TMC-FT RICHARDSON      '  "
/@02 " '0538' = '222 AV MED CLN-FT WAINWR' "
/@02 " '0539' = '222 AV BN, FT WAINWRIGHT' "
/@02 " '0540' = '6TH ID(L)-FT WAINWRIGHT '  "
/@02 " '0541' = '10 CBT SPT HSP-DUPID0550' "
/@02 " '0542' = '42ND FLD HOSP,INDIANTOWN' "
/@02 " '0543' = '15TH CBT SPT HSP,INDIANT' "
/@02 " '0544' = 'USAHC FRNKFRD ARS PHILAD' "
/@02 " '0545' = 'OHC EDGEWOOD ARS         '  "
/@02 " '0546' = 'CEHC EDGEWOOD ARS,ABERDN'  "
/@02 " '0547' = 'TMC-1,KIMBROUGH,FT MEADE' "
/@02 " '0548' = 'TMC-2,KIMBROUGH,FT MEADE' "
/@02 " '0549' = 'TMC-3,KIMBROUGH,FT MEADE' "
/@02 " '0550' = '10 CBT SPT HOSP (TOE)    '  "
/@02 " '0551' = 'AHC NO POST-FT BELVOIR   '  "
/@02 " '0552' = 'AHC SO POST-FT BELVOIR   '  "
/@02 " '0553' = 'TMC-1, FT EUSTIS       '  "
/@02 " '0554' = 'TMC-2,MCDONALD,FT EUSTIS' "
/@02 " '0555' = 'TMC-1, KENNER, FT LEE    '  "
/@02 " '0556' = 'TMC-2, KENNER, FT LEE    '  "
/@02 " '0557' = 'OHC-FT LEE             '  "
/@02 " '0558' = 'CEHC D C SYSTEM, WASH DC' "
/@02 " '0559' = 'USAHC FORREST BLDG, WASH' "
/@02 " '0560' = 'GUTHRIE AHC-DUP OF 0330  '  "
/@02 " '0561' = 'TMC-1,PATTERSN,FT MONMOU'  "
/@02 " '0562' = 'TMC-2,PATTERSN,FT MONMOU'  "
/@02 " '0563' = 'TMC-3, FT BRAGG           '  "
/@02 " '0564' = 'TMC-9, FT BRAGG           '  "
/@02 " '0565' = 'TMC-10, FT BRAGG         '  "

```

```

/@02 " '0566' = 'TMC-11, FT BRAGG      '  "
/@02 " '0567' = 'TMC-12, FT BRAGG      '  "
/@02 " '0568' = 'TMC-13, FT BRAGG      '  "
/@02 " '0569' = 'TMC-15, FT BRAGG      '  "
/@02 " '0570' = 'USAOHC FT BRAGG      '  "
/@02 " '0571' = 'TMC-17, FT BRAGG      '  "
/@02 " '0572' = 'TMC-19,WOMACK, FT BRAGG  '  "
/@02 " '0573' = 'TMC-20, FT BRAGG      '  "
/@02 " '0574' = 'TMC-21, FT BRAGG      '  "
/@02 " '0575' = 'TMC-22, FT BRAGG      '  "
/@02 " '0576' = 'OCC HLTH NSG, SUNNY PNT  '  "
/@02 " '0577' = 'USA PHYSICAL EXAM CENTER'  "
/@02 " '0578' = 'JFK MED CENTER, FT BRAGG'  "
/@02 " '0579' = '307th MED BTN,82nd AIRBN'  "
/@02 " '0580' = '28TH CSH-FT BRAGG      '  "
/@02 " '0581' = 'TMC-1, CUTLER, FT DEVENS'  "
/@02 " '0582' = 'TMC-2, CUTLER, FT DEVENS'  "
/@02 " '0583' = 'TMC-4, CUTLER, FT DEVENS'  "
/@02 " '0584' = 'TMC-10, SPEC, FT DEVENS  '  "
/@02 " '0585' = '10 SPEC FORCS,FT CARSON  '  "
/@02 " '0586' = 'TMC-4, FT HANCOCK      '  "
/@02 " '0587' = 'TMC-2, WALSON, FT DIX      '  "
/@02 " '0588' = 'TMC-4, FT DIX              '  "
/@02 " '0589' = 'TMC-5, WALSON, FT DIX      '  "
/@02 " '0590' = 'TMC-7, FT DIX              '  "
/@02 " '0591' = 'TMC-9, FT DIX              '  "
/@02 " '0592' = 'TMC-1, IRELAND-FT KNOX  '  "
/@02 " '0593' = 'TMC-2, IRELAND-FT KNOX  '  "
/@02 " '0594' = 'TMC-3, IRELAND-FT KNOX  '  "
/@02 " '0595' = 'TMC-4, IRELAND-FT KNOX  '  "
/@02 " '0596' = 'TMC (CEN)IRELAND,FT KNOX'  "
/@02 " '0597' = 'TMC (AVN)IRELAND-FT KNOX'  "
/@02 " '0598' = 'TMC-194, IRELAND,FT KNOX'  "
/@02 " '0599' = '42nd FIELD HOSP-FT KNOX  '  "
/@02 " '0601' = 'USA HOSP AUGSBURG      '  "
/@02 " '0602' = 'USA HOSP BAD CANNSTATT  '  "
/@02 " '0603' = 'USA HOSP BERLIN        '  "
/@02 " '0604' = 'USA HOSP BREMERHAVEN   '  "
/@02 " '0605' = 'AHC FRANKFURT         '  "
/@02 " '0606' = 'HEIDELBERG MEDDAC     '  "
/@02 " '0607' = 'LANDSTUHL REGNL MED CEN  '  "
/@02 " '0608' = 'AHC NUERNBERG        '  "
/@02 " '0609' = 'WUERZBURG MEDDAC     '  "
/@02 " '0610' = 'USA MEDDAC-CAMP ZAMA   '  "
/@02 " '0611' = 'AHC VICENZA          '  "
/@02 " '0612' = '121st GEN HOSP-SEOUL  '  "
/@02 " '0613' = 'GORGAS ACH         '  "
/@02 " '0614' = 'AHC SHAPE         '  "
/@02 " '0615' = 'NH GUANTANAMO BAY   '  "
/@02 " '0616' = 'NH ROOSEVELT ROADS-CEIBA'  "
/@02 " '0617' = 'NH NAPLES            '  "
/@02 " '0618' = 'NH ROTA           '  "
/@02 " '0619' = 'NH SUBIC BAY      '  "
/@02 " '0620' = 'NH GUAM-AGANA     '  "
/@02 " '0621' = 'NH OKINAWA       '  "
/@02 " '0622' = 'NH YOKOSUKA      '  "
/@02 " '0623' = 'NH KEFLAVIK      '  "
/@02 " '0624' = 'NH SIGONELLA     '  "

```

```

/@02 " '0625' = 'BMC IWAKUNI ' "
/@02 " '0626' = '52nd MED GRP-BITBURG ' "
/@02 " '0627' = '583rd MED SQUAD-HAHN ' "
/@02 " '0628' = '7100th CSW MED-WIESBADEN' "
/@02 " '0629' = '65th MED GRP-LAJES ' "
/@02 " '0630' = '600th MED SQUAD-TORREJON' "
/@02 " '0631' = '7206th ABGHSP-HELLENIKON' "
/@02 " '0632' = '620th MED SQD-UPR HEYFRD' "
/@02 " '0633' = '48th MED GRP-LAKENHEATH ' "
/@02 " '0634' = '7276th ABG HOSP-IRAKLION' "
/@02 " '0635' = '39th MED GRP-INCIRLIK ' "
/@02 " '0636' = '13th MED CENTER-CLARK AB' "
/@02 " '0637' = '8th MED GRP-KUNSAN AB ' "
/@02 " '0638' = '51st MED GRP-OSAN AB ' "
/@02 " '0639' = '35th MED GRP-MISAWA ' "
/@02 " '0640' = '374th MED GRP-YOKOTA AB ' "
/@02 " '0641' = 'RESERVED FOR MDMIS ' "
/@02 " '0642' = 'RESERVED FOR MDMIS ' "
/@02 " '0643' = 'RESERVED FOR MDMIS ' "
/@02 " '0644' = 'RESERVED FOR MDMIS ' "
/@02 " '0645' = 'RESERVED FOR MDMIS ' "
/@02 " '0646' = 'RESERVED FOR MDMIS ' "
/@02 " '0647' = 'RESERVED FOR MDMIS ' "
/@02 " '0648' = 'RESERVED FOR MDMIS ' "
/@02 " '0651' = 'UNIDENTIFIED ARMY FAC ' "
/@02 " '0652' = 'UNIDENTIFIED NAVY FAC ' "
/@02 " '0653' = '422 ABS MED-CROUGHTON ' "
/@02 " '0654' = 'NBMA PASCAGOULA ' "
/@02 " '0655' = 'BDCL NS PASCAGOULA ' "
/@02 " '0656' = 'NHBC INGLESIDE ' "
/@02 " '0701' = 'NBMC NAVSTA SAN DIEGO ' "
/@02 " '0702' = 'NMCL NORFOLK ' "
/@02 " '0703' = 'NBMC WASHINGTON NAVY YRD' "
/@02 " '0710' = '0710-0790 RSVD-DSRT STOR' "
/@02 " '0781' = 'NORTHEAST WEST VIRGINIA ' "
/@02 " '0782' = 'WESTERN WEST VIRGINIA ' "
/@02 " '0783' = 'EASTRN MISSOURI-ST LOUIS' "
/@02 " '0784' = 'WESTERN MISSOURI ' "
/@02 " '0785' = 'ARIZONA, EXCL YUMA AREA ' "
/@02 " '0786' = 'YUMA ARIZONA AREA ' "
/@02 " '0787' = 'GEORGIA,FORMER NOBLE CAT' "
/@02 " '0799' = '470 MEDFLT-GEILENKIRCHEN' "
/@02 " '0800' = '469th MED FLT-RHEIN MAIN' "
/@02 " '0801' = '601st MED SQUAD-SEMBACH ' "
/@02 " '0802' = '36th MED GRP-ANDERSEN ' "
/@02 " '0803' = 'BDC GUAM ' "
/@02 " '0804' = '18th MED GRP-KADENA AB ' "
/@02 " '0805' = '52nd MED GRP-SPANGDAHLEM' "
/@02 " '0806' = '86th MED GRP-RAMSTEIN ' "
/@02 " '0807' = '26th TRW CLN-ZWEIBRUCKEN' "
/@02 " '0808' = '31st MED GRP-AVIANO ' "
/@02 " '1588' = 'TMC-1, FT HOOD ' "
/@02 " '1589' = 'TMC-2, FT HOOD ' "
/@02 " '1590' = 'TMC-3, FT HOOD ' "
/@02 " '1591' = 'TMC-4, FT HOOD ' "
/@02 " '1592' = 'MONROE CONSOL-FT HOOD ' "
/@02 " '1593' = 'TMC-6, FT HOOD ' "
/@02 " '1594' = 'TMC-7, FT HOOD ' "

```

```

/@02 " '1595' = 'TMC-8, FT HOOD ' "
/@02 " '1596' = 'TMC-9, FT HOOD ' "
/@02 " '1597' = 'TMC-10, FT HOOD ' "
/@02 " '1598' = 'TMC-11, FT HOOD ' "
/@02 " '1599' = 'TMC-12, FT HOOD ' "
/@02 " '1600' = 'TMC-13, FT HOOD ' "
/@02 " '1601' = 'TMC-14, FT HOOD ' "
/@02 " '1602' = 'MONROE TMC-DUPIDSEE1592 ' "
/@02 " '1603' = 'AID STA 1 CAV, FT HOOD ' "
/@02 " '1604' = 'CAREVAN 2ND ARMD,FT HOOD' "
/@02 " '1605' = 'AID STA 2ND ARMD,FT HOOD' "
/@02 " '1606' = 'AID STA 6 CAVB, FT HOOD ' "
/@02 " '1607' = '36 MEDICAL BN, FT HOOD ' "
/@02 " '1608' = '6 CAV BDE, FT HOOD ' "
/@02 " '1609' = '1ST MED GRP (TOE) ' "
/@02 " '1610' = '2ND ARMD DIV, FT HOOD ' "
/@02 " '1611' = '1st CAV DIV (TOE) ' "
/@02 " '1612' = 'TMC-1, FT BLISS ' "
/@02 " '1613' = 'TMC-3, FT BLISS ' "
/@02 " '1614' = 'TMC-2, MCGREGOR RANGE ' "
/@02 " '1615' = 'TMC-5, FT BLISS ' "
/@02 " '1616' = 'TMC-6, FT BLISS ' "
/@02 " '1617' = 'TMC MED EXAM-FT BLISS ' "
/@02 " '1618' = '3RD ARMD CAV, EL PASO ' "
/@02 " '1619' = 'TMC-1, FT POLK ' "
/@02 " '1620' = 'TMC-2, FT POLK ' "
/@02 " '1621' = 'TMC-3, FT POLK ' "
/@02 " '1622' = 'TMC-4, FT POLK ' "
/@02 " '1623' = '15th EVAC HOSP (TOE) ' "
/@02 " '1624' = 'TMC-1, FT SILL ' "
/@02 " '1625' = 'TMC-2, FT SILL ' "
/@02 " '1626' = 'TMC-3, FT SILL ' "
/@02 " '1627' = 'TMC-4, FT SILL ' "
/@02 " '1628' = 'TMC-5, REYNOLDS-FT SILL ' "
/@02 " '1629' = 'TMC CAMP ROBINSON, AR ' "
/@02 " '1630' = 'TMC-7, REYNOLDS-FT SILL ' "
/@02 " '1631' = '47TH FIELD HOSP (TOE) ' "
/@02 " '1632' = 'TMC FT WINGATE GALLUP ' "
/@02 " '1633' = 'TMC-3, FT HUACHUCA ' "
/@02 " '1634' = 'TMC-2, FT ORD ' "
/@02 " '1635' = 'TMC-3, FT ORD ' "
/@02 " '1636' = 'TMC-4, FT ORD ' "
/@02 " '1637' = 'TMC-5, FT ORD ' "
/@02 " '1638' = 'TMC-6, FT ORD ' "
/@02 " '1639' = 'TMC CON FAC, FT ORD ' "
/@02 " '1640' = 'USAHC N FT ORD ' "
/@02 " '1641' = 'TMC-8, FT CAMPBELL ' "
/@02 " '1642' = 'OCCUP HC HAYES-FT ORD ' "
/@02 " '1643' = 'USAHC FT MCARTHUR, SANPED' "
/@02 " '1644' = 'TMC-1, FT IRWIN ' "
/@02 " '1645' = 'TMC-2, FT IRWIN ' "
/@02 " '1646' = 'TMC-1, FT LEWIS ' "
/@02 " '1647' = 'TMC-2, FT LEWIS ' "
/@02 " '1648' = 'TMC-3, FT LEWIS ' "
/@02 " '1649' = 'TMC-5, FT LEWIS ' "
/@02 " '1650' = 'TMC-6, FT LEWIS ' "
/@02 " '1651' = 'TMC-9, MADIGAN-FT LEWIS ' "
/@02 " '1652' = 'TMC-12, FT LEWIS ' "

```

```

/@02 " '1653' = 'TMC-13, FT LEWIS      '  "
/@02 " '1654' = '9INF TMC                '  "
/@02 " '1655' = '9th INF DIV OFF (TOE)    '  "
/@02 " '1656' = 'BRMCL SUBASE BANGOR      '  "
/@02 " '1657' = 'BRMCL CAMP DELMAR MCB     '  "
/@02 " '1658' = 'BRDCL NAS MIRAMAR       '  "
/@02 " '1659' = 'BRMCL SAN ONOFRE MCB     '  "
/@02 " '1660' = 'BRMCL NCTC INPR GRT LAKE '  "
/@02 " '1661' = 'MDCL OMP MOLINE          '  "
/@02 " '1662' = 'BRMCL CAMP GEIGER MCB     '  "
/@02 " '1663' = 'BRMCL CAMP JOHNSON MCB  '  "
/@02 " '1664' = 'BRMCL COURTHOUSE BAY MCB '  "
/@02 " '1665' = 'BRCL AFSC NORFOLK      '  "
/@02 " '1666' = 'BRCL NAVSECGRP NORFOLK  '  "
/@02 " '1667' = 'BRMCL NSB GROTON        '  "
/@02 " '1668' = 'BRCL NSWC DET, SOLOMONS '  "
/@02 " '1669' = 'BRCL NSA PHILADELPHIA  '  "
/@02 " '1670' = 'BRMCL OCS BROWN FIELD   '  "
/@02 " '1671' = 'BRMCL THE BASIC SCHOOL  '  "
/@02 " '1672' = 'BRCL OAHU              '  "
/@02 " '1673' = 'MDCL KAUAI             '  "
/@02 " '1674' = 'BRDCL NAVMARCORES PORTLD '  "
/@02 " '1675' = 'BRDCL NAVPGSCOL MONTEREY '  "
/@02 " '1676' = 'NBDC TWENTY-NINE PALMS  '  "
/@02 " '1677' = 'NBDC BARSTOW           '  "
/@02 " '1678' = 'DUPLICATE DMISID       '  "
/@02 " '1679' = 'BRDCL ANX CAMP PENDLETON '  "
/@02 " '1680' = 'NBDC EL TORO           '  "
/@02 " '1681' = 'BRDCL MCAS H TUSTIN     '  "
/@02 " '1682' = 'BRDCL NAS POINT MUGU    '  "
/@02 " '1683' = 'BRDCL NAS ALAMEDA      '  "
/@02 " '1684' = 'BRDCL NAS MOFFETT FIELD '  "
/@02 " '1685' = 'BRDCL NAVCOMMSTA STOCKTN '  "
/@02 " '1686' = 'BRDCL NAVSTA MARE ISLAND '  "
/@02 " '1687' = 'BRDCL WPNSTA CONCORD    '  "
/@02 " '1688' = 'BRDCL FLEASWTRA SANDIEGO '  "
/@02 " '1689' = 'BRDCL NAF EL CENTRO     '  "
/@02 " '1690' = 'BRDCL MCRD SAN DIEGO    '  "
/@02 " '1692' = 'BRDCL NAS NORTH ISLAND  '  "
/@02 " '1693' = 'BRDCL NAVPHIBAS CORONADO '  "
/@02 " '1694' = 'BRDCL NSC SAN DIEGO     '  "
/@02 " '1695' = 'NBDC NTC SAN DIEGO      '  "
/@02 " '1696' = 'BRDCL NAS FALLON        '  "
/@02 " '1697' = 'NBDC MCAS YUMA         '  "
/@02 " '1698' = 'BRCL NAS ALBANY         '  "
/@02 " '1699' = 'BRDCL NAS CHASE FIELD   '  "
/@02 " '1700' = 'BRDCL NAS CORPUS CHRISTI '  "
/@02 " '1701' = 'BRDCL NAS DALLAS        '  "
/@02 " '1702' = 'BRDCL NAS KINGSVILLE    '  "
/@02 " '1703' = 'BRDCL NAS GLENVIEW      '  "
/@02 " '1704' = 'BRDCL NTC GREAT LAKES   '  "
/@02 " '1705' = 'BRDCL NAF DETROIT       '  "
/@02 " '1706' = 'BRDCL NAS WHITING FIELD '  "
/@02 " '1707' = 'BRDCL NRTC ORLANDO     '  "
/@02 " '1708' = 'NBDC CECIL FIELD        '  "
/@02 " '1709' = 'BRDCL NAVSTA MAYPORT    '  "
/@02 " '1710' = 'BRDCL NRTC INPR ORLANDO '  "
/@02 " '1711' = 'BRDCL NAS KEY WEST      '  "

```

```

/@02 " '1712' = 'BRDCL MCLB ALBANY      '  "
/@02 " '1713' = 'BRDCL NAS ATLANTA      '  "
/@02 " '1714' = 'BRDCL NAVSCSCOL ATHENS   '  "
/@02 " '1715' = 'BRDCL NAS MERIDIAN      '  "
/@02 " '1716' = 'BRDCL CBC GULFPORT      '  "
/@02 " '1717' = 'BRDCL NAVFAC BUXTON      '  "
/@02 " '1718' = 'BRDCL MCAS H NEW RIVER    '  "
/@02 " '1719' = 'BRDCL ANNEX CAMP LEJEUNE  '  "
/@02 " '1720' = 'BRDCL MCAS BEAUFORT    '  "
/@02 " '1721' = 'BRDCL WPNSTA CHARLESTON  '  "
/@02 " '1722' = 'NBDC CHESAPEAKE      '  "
/@02 " '1723' = 'NBDC DAM NECK        '  "
/@02 " '1724' = 'NBDC NAS OCEANA     '  "
/@02 " '1725' = 'NBDC LITTLE CREEK   '  "
/@02 " '1726' = 'NBDC NSY NORFOLK      '  "
/@02 " '1727' = 'NBDC NEWPORT NEWS    '  "
/@02 " '1728' = 'NBDC YORKTOWN      '  "
/@02 " '1729' = 'BRDCL AFSC NORFOLK   '  "
/@02 " '1730' = 'BRDCL HEDSUPPACT LANTFLT'  "
/@02 " '1731' = 'BRDAX NAF WASHINGTON   '  "
/@02 " '1732' = 'BRDCL NAVY YARD WASH  '  "
/@02 " '1733' = 'BDA NSS WASHINGTON DC  '  "
/@02 " '1734' = 'BRDCL NAVORD INDIAN HEAD'  "
/@02 " '1735' = 'BRDCL NAVCOMMU CUTLER  '  "
/@02 " '1736' = 'BRDCL NAVAIRENG LAKEHRST'  "
/@02 " '1737' = 'BRDENCL STATEN ISLAND  '  "
/@02 " '1738' = 'NBDC WILLOW GROVE     '  "
/@02 " '1739' = 'BRDCL NAVSWC DAHLGREN  '  "
/@02 " '1740' = 'BRDCL KAUAI          '  "
/@02 " '1741' = 'NBDC KANEOHE BAY      '  "
/@02 " '1742' = 'BRDCL NAS BARBERS POINT'  "
/@02 " '1743' = 'BRDCL NAVMAG LUALUALEI  '  "
/@02 " '1744' = 'BRDCL NCS WAHIAWA     '  "
/@02 " '1745' = 'USAF TROOP CLIN LACKLAND'  "
/@02 " '1746' = 'USAF CLINIC PENTAGON    '  "
/@02 " '1747' = '366 DENTL SQ/SGD-MT HOME'  "
/@02 " '1748' = '341 DS/SGD - MALMSTROM  '  "
/@02 " '1749' = '62 MEDICL GP/SGD-MCCHORD'  "
/@02 " '1750' = '60 DENTAL SQ/SGD-TRAVIS  '  "
/@02 " '1751' = 'USAF DENTL CLN MCCLELLAN'  "
/@02 " '1752' = '95 MEDICL GP/SGD-EDWARDS  '  "
/@02 " '1753' = '722ND STRATGC DENTL CLIN'  "
/@02 " '1754' = 'USAF DNTL CLIN MCCLELLAN'  "
/@02 " '1755' = '10 MED GP/SGD1-USAF ACAD  '  "
/@02 " '1756' = '10 MED GP/SGD2-USAF ACAD  '  "
/@02 " '1757' = 'USAF DENTAL CLINIC LOWRY  '  "
/@02 " '1758' = '22 AEROMED DEN-MCCONNELL'  "
/@02 " '1759' = '5 DENTAL SQ/SGD - MINOT  '  "
/@02 " '1760' = '28 DENT SQ/SGD-ELLSWORTH'  "
/@02 " '1761' = '49 DENTL SQ/SGD-HOLLOMAN  '  "
/@02 " '1762' = '97th STRATEGIC DENTL CLN  '  "
/@02 " '1763' = '2ND DNTL SQ/SGD-BARKSDAL  '  "
/@02 " '1764' = '97 ADOS/SGGD - ALTUS     '  "
/@02 " '1765' = '7 AEROMED SQ/SGGD-DYESS   '  "
/@02 " '1766' = '7th BOMB WING DENTAL CLN  '  "
/@02 " '1767' = '59 MED WING/SGD-LACKLAND  '  "
/@02 " '1768' = 'USAF DC LACKLAND (2)      '  "
/@02 " '1769' = 'USAF DENTAL CLINIC KELLY  '  "

```

/@02 " '1770' = '12 DENTAL SQ/CC-RANDOLPH' " "
 /@02 " '1771' = 'USAF DENTAL CLIN CHANUTE' " "
 /@02 " '1772' = '375 DENTAL SQ/SGD-SCOTT' " "
 /@02 " '1773' = '305th STRATEGC DENTL CLN' " "
 /@02 " '1774' = '42 DENTAL SQ/SGD-MAXWELL' " "
 /@02 " '1775' = '31ST MEDICAL GROUP/SGD' " "
 /@02 " '1776' = '45 DS/SGD - PATRICK' " "
 /@02 " '1777' = '81 DENTAL SQ/SGD-KEESLER' " "
 /@02 " '1778' = '4 DENTAL SQ/SGD-SEY JOHN' " "
 /@02 " '1779' = '43 MED OPS SQ/SGD-POPE' " "
 /@02 " '1780' = '20 AEROMED DEN SQ - SHAW' " "
 /@02 " '1781' = '354th MEDICAL GROUP/SGD' " "
 /@02 " '1782' = '437 DNTL SG/SGD-CHARLSTN' " "
 /@02 " '1783' = '1 DENTAL SQ/SGD-LANGLEY' " "
 /@02 " '1784' = '11 DS/SGDDV - PENTAGON' " "
 /@02 " '1785' = '436 DENTAL SQ/SGD-DOVER' " "
 /@02 " '1786' = '66 MED GP/SGD-HANSCOM' " "
 /@02 " '1787' = '89TH DNTL SQ/SGD-ANDREWS' " "
 /@02 " '1788' = '42nd STRATEGIC DENTL CLN' " "
 /@02 " '1789' = '305 DNTL SQ/SGD-MCGUIRE' " "
 /@02 " '1790' = '380th STRATGC DENTAL CLN' " "
 /@02 " '1791' = 'USAF DC HANCOCK' " "
 /@02 " '1792' = '3 MED GP/SGD-ELMENDORF' " "
 /@02 " '1793' = '354 MED GP/SGD-EIELSON' " "
 /@02 " '1794' = 'TMC(BEAUMT) FT BLISS-EXI' " "
 /@02 " '1795' = 'USA RCVG STA FT BLISS-EX' " "
 /@02 " '1796' = 'AUN FT POLK' " "
 /@02 " '1797' = 'TMC-1,FT POLK ALREADY EX' " "
 /@02 " '1798' = 'TMC-2,FT POLK ALREADY EX' " "
 /@02 " '1799' = 'TMC-3,FT POLK ALREADY EX' " "
 /@02 " '1800' = 'TMC-4,FT POLK ALREADY EX' " "
 /@02 " '1801' = 'AFEES FT HOOD' " "
 /@02 " '1802' = 'TMC (RES), FT MCCOY' " "
 /@02 " '1803' = 'USAHC FT MCHOREN' " "
 /@02 " '1804' = 'PHYS EXAM STA,FT BENNING' " "
 /@02 " '1805' = 'TMC-11,DAHLONEGA ALREADY' " "
 /@02 " '1806' = 'TMC-12,CAMP RUDDER ALREA' " "
 /@02 " '1807' = 'TROOP MEDICL CLN FT STEW' " "
 /@02 " '1808' = 'CONSOL TMC FT JACKSON-EX' " "
 /@02 " '1809' = 'USA PHYS EXAM CENTR FT J' " "
 /@02 " '1810' = 'WHITEHOUSE CL 1600 PENNA' " "
 /@02 " '1811' = 'USAHC DOVER' " "
 /@02 " '1812' = 'USAHC FT DAVIS' " "
 /@02 " '1813' = 'USAHC DPSC PHC' " "
 /@02 " '1814' = 'USAHC SCHOFIELD BARRKS(2' " "
 /@02 " '1815' = 'MOLOGNE TMC' " "
 /@02 " '1816' = 'USMA STAS HC, WEST POINT' " "
 /@02 " '1817' = 'USADC-2 FT LEWIS' " "
 /@02 " '1818' = 'USADC-3 FT LEWIS' " "
 /@02 " '1819' = 'USADC BEITER' " "
 /@02 " '1820' = 'USADC BURKE' " "
 /@02 " '1821' = 'USADC STONE' " "
 /@02 " '1822' = 'USADC-4 FT ORD' " "
 /@02 " '1823' = 'USADC-1 FITZSIMONS' " "
 /@02 " '1824' = 'USADC-2 FITZSIMONS' " "
 /@02 " '1825' = 'USADC LARSON' " "
 /@02 " '1826' = 'USADC SMITH' " "
 /@02 " '1827' = 'USADC-1 FT CARSON' " "

```

/@02 " '1828' = 'USADC-2 FT RILEY ' "
/@02 " '1829' = 'USADC-3 FT RILEY ' "
/@02 " '1830' = 'USADC-4 FT RILEY ' "
/@02 " '1831' = 'USADC-5 FT RILEY ' "
/@02 " '1832' = 'USADC-6 FT RILEY ' "
/@02 " '1833' = 'USADC SMITH ' "
/@02 " '1834' = 'USADC-3 FT LEAVENWORTH ' "
/@02 " '1835' = 'DISCIP BKS FT LEAVENWTH ' "
/@02 " '1836' = 'USADC RUNION ' "
/@02 " '1837' = 'USADC-1 FT HUACHUCA ' "
/@02 " '1838' = 'USADC-2 FT HUACHUCA ' "
/@02 " '1839' = 'USADC FT BLISS ' "
/@02 " '1840' = 'USADC-2 FT BLISS (LOGAN)' "
/@02 " '1841' = 'USADC-3 FT BLISS ' "
/@02 " '1842' = 'USA CHESER DC, FT POLK ' "
/@02 " '1843' = 'USA DIV DC, FT POLK ' "
/@02 " '1844' = 'USADC-3 FT POLK ' "
/@02 " '1845' = 'USADC-4 FT POLK ' "
/@02 " '1846' = 'USADC-2 FT BLISS (LOGAN)' "
/@02 " '1847' = 'ACTVTY COMMANDER-FT HOOD' "
/@02 " '1848' = 'USADC-2 DACH-FTHOOD ' "
/@02 " '1849' = 'USADC FAIRBANK ' "
/@02 " '1850' = 'USADC PERKINS ' "
/@02 " '1851' = 'USADC-3 FT HOOD ' "
/@02 " '1852' = 'USADC-5 FT HOOD ' "
/@02 " '1853' = 'USADC-6 FT HOOD ' "
/@02 " '1854' = 'USADC INPROCESS -FT HOOD' "
/@02 " '1855' = 'USA ORALHLTH CLN FT BENJ' "
/@02 " '1856' = 'USADC-1 FT BEN HARRISON ' "
/@02 " '1857' = 'USADC-2 FT BEN HARRISON ' "
/@02 " '1858' = 'USADC CRAVEN ' "
/@02 " '1859' = 'USADC MARGETIS, FT KNOX ' "
/@02 " '1860' = 'USADC NELSON ' "
/@02 " '1861' = 'USADC-4 FT KNOX ' "
/@02 " '1862' = 'USADC-6 FT KNOX ' "
/@02 " '1863' = 'USADC ST. LOUIS, FED BLDG' "
/@02 " '1864' = 'USADC BOAK FT LEO WOOD ' "
/@02 " '1865' = 'USADC HAMPR FT LEO WOOD ' "
/@02 " '1866' = 'USADC ROLL, FT LEO WOOD ' "
/@02 " '1867' = 'USADC-5&6 FT LEONRD WOOD' "
/@02 " '1868' = 'USADC REDSTONE ARSENAL ' "
/@02 " '1869' = 'USADC ROY A. STOUT DC ' "
/@02 " '1870' = 'USADC-1 FT RUCKER ' "
/@02 " '1871' = 'USADC-2 FT RUCKER ' "
/@02 " '1872' = 'USADC-3 FT RUCKER ' "
/@02 " '1873' = 'USADC-4 FT RUCKER ' "
/@02 " '1874' = 'USADC-5 FT RUCKER ' "
/@02 " '1875' = 'USA ORAL HLTH CTR FT GOR' "
/@02 " '1876' = 'USADC FT BUCHANAN ' "
/@02 " '1877' = 'USADC FT MCPHERSON ' "
/@02 " '1878' = 'USADC MERRIL ' "
/@02 " '1879' = 'USADC TINGAY ' "
/@02 " '1880' = 'USADC-1 FT GORDON ' "
/@02 " '1881' = 'USADC BERNHEIM ' "
/@02 " '1882' = 'USADC SALOMON ' "
/@02 " '1883' = 'USADC-1 FT BENNING ' "
/@02 " '1884' = 'USADC-2 FT BENNING ' "
/@02 " '1885' = 'USADC-3 FT BENNING ' "

```



```

/@02 " '1886' = 'USADC-1 FT STEWART ' "
/@02 " '1887' = 'USADC-3 FT STEWART ' "
/@02 " '1888' = 'USADC-4 FT STEWART ' "
/@02 " '1889' = 'USADC EPPERLY-3 ' "
/@02 " '1890' = 'USADC KUHN ' "
/@02 " '1891' = 'USADC TAYLOR-5 ' "
/@02 " '1892' = 'USADC DAVIS ' "
/@02 " '1893' = 'USADC LAFLAME ' "
/@02 " '1894' = 'USADC RHODE ' "
/@02 " '1895' = 'USADC-5 FT BRAGG ' "
/@02 " '1896' = 'USADC-6 FT BRAGG ' "
/@02 " '1897' = 'USADC CALDWELL ' "
/@02 " '1898' = 'USADC HAGEN ' "
/@02 " '1899' = 'USADC OLIVER ' "
/@02 " '1900' = 'USADC TIGNOR ' "
/@02 " '1901' = 'USADC COL BULL ' "
/@02 " '1902' = 'USADC EDGEWOOD ARSENAL ' "
/@02 " '1903' = 'USADC FT HAMILTON ' "
/@02 " '1904' = 'USA ORAL HLTH FT DEVENS ' "
/@02 " '1905' = 'USADC VAIL ' "
/@02 " '1906' = 'USADC ABERDN PROVNG GRND' "
/@02 " '1907' = 'USADC EPES ' "
/@02 " '1908' = 'USADC FT RICHIE ' "
/@02 " '1909' = 'USADC-3 FT MEADE ' "
/@02 " '1910' = 'USADC FT MONMOUTH ' "
/@02 " '1911' = 'USADC MARSHALL FT DIX ' "
/@02 " '1912' = 'USADC MILLS ' "
/@02 " '1913' = 'USADC REC STA. FT DIX ' "
/@02 " '1914' = 'USADC-1 USMA(POST) ' "
/@02 " '1915' = 'USADC-2 USMA(STEWART) ' "
/@02 " '1916' = 'USADC-3 USMA ' "
/@02 " '1917' = 'USADC CARLISLE BARRACKS ' "
/@02 " '1918' = 'USADC LOGAN ' "
/@02 " '1919' = 'USA ORAL HLTH CNTR ' "
/@02 " '1920' = 'USADC POHAKALUA ' "
/@02 " '1921' = 'USADC SCHOFIELD BKS ' "
/@02 " '1922' = 'USADC-1 FT LEWIS ' "
/@02 " '1923' = 'USAHC MCGREGOR RANGE-EXI' "
/@02 " '1924' = '92 AEROMED DEN-FAIRCHILD' "
/@02 " '1926' = 'USAHC CHEJUDO CHEJU ISLD' "
/@02 " '1927' = 'TMC-14, FT BRAGG ' "
/@02 " '1928' = 'TMC-5, FT KNOX ' "
/@02 " '1929' = 'TMC-5, FT LEONARD WOOD ' "
/@02 " '1930' = 'TMC 1ST BRIGADE ' "
/@02 " '1931' = '46TH ENGNR TOE UNT,FT RU' "
/@02 " '1932' = '19381,LOGAN HGT-FT BLISS' "
/@02 " '1933' = 'COMBAT SUPP HSP-1 GERMNY' "
/@02 " '1934' = 'COMBAT SUPP HSP-1 WLTR R' "
/@02 " '1935' = 'COMBAT SUPP HSP-2 WLTR R' "
/@02 " '1936' = 'COMBAT SUPP HSP-1 EISENH' "
/@02 " '1937' = 'COMBAT SUPP HSP-2 EISENH' "
/@02 " '1938' = '41st CSH (TOE) ' "
/@02 " '1939' = 'RECEPTION STA TMC-FT BEN' "
/@02 " '1940' = 'COMBAT SUPP HSP-2 GERMNY' "
/@02 " '1941' = 'COMBAT SUPP HSP-3 GERMNY' "
/@02 " '1942' = '47th CSH (TOE) ' "
/@02 " '1943' = '35th TAC HOSP,GEORGE AFB' "
/@02 " '1944' = '22nd TAC HOSP MARCH AFB ' "

```

/@02 " '1945' = '49th TAC HOSP-HOLLOMAN ' "
 /@02 " '1947' = '501st TMW CLNC-GREENHAM ' "
 /@02 " '1948' = 'USADC FULTON ' "
 /@02 " '1949' = 'BRDCL NSY MARE ISLAND ' "
 /@02 " '1950' = 'USADC FLATS, FT ORD ' "
 /@02 " '1951' = 'USADC-7 FT KNOX ' "
 /@02 " '1952' = 'USADC HARPER, FT LEO WOOD ' "
 /@02 " '1953' = 'USADC ALLEN, FT SILL ' "
 /@02 " '1954' = 'USADC COWAN, FT SILL ' "
 /@02 " '1955' = 'USADC WEEKS, FT SILL ' "
 /@02 " '1956' = 'DC-4(HOSP TL) FT BENNING ' "
 /@02 " '1957' = 'VANCOUVER BKS, FT LEWIS ' "
 /@02 " '1958' = 'USAHC LONGHORN AAP ' "
 /@02 " '1959' = 'BRMCL NTC GREAT LAKES ' "
 /@02 " '1960' = 'USAHC LAKE CITY AAP ' "
 /@02 " '1961' = '3 MED GP/SGD-ELMENDORF ' "
 /@02 " '1962' = 'USAF DC MCCLELLAN ' "
 /@02 " '1963' = 'USADC SIERRA ' "
 /@02 " '1964' = 'USDA FAM MEM FT GORDON ' "
 /@02 " '1965' = 'USADC BACH ' "
 /@02 " '1966' = '319 DNTL SQ/SGD-GRND FRK ' "
 /@02 " '1967' = 'USADC HAWTHORNE ' "
 /@02 " '1968' = 'USADC-2 FT SILL ' "
 /@02 " '1969' = 'USADC FT GULICK ' "
 /@02 " '1970' = 'USADC FT INDIANTOWN GAP ' "
 /@02 " '1971' = '59 MED WING/SGD-LACKLAND ' "
 /@02 " '1972' = 'CMHS FT MCCLELLAN ' "
 /@02 " '1973' = 'MDCL FASO WARNER SPRINGS ' "
 /@02 " '1974' = 'BRMCL CAMP CHAPPO MCB ' "
 /@02 " '1975' = 'BRMCL CORCEN MCB ' "
 /@02 " '1976' = 'BRMCL CAMP MARGUARITA ' "
 /@02 " '1977' = 'BRMCL CAMP LAS FLORES ' "
 /@02 " '1978' = 'BRMCL CAMP LAS PULGAS ' "
 /@02 " '1979' = 'BRMCL CAMP HORNO ' "
 /@02 " '1980' = 'BRMCL CAMP SAN MATEO ' "
 /@02 " '1981' = 'MDCL MSC PACIFIC ' "
 /@02 " '1982' = 'TMC CONSOLIDATED-FT ORD ' "
 /@02 " '1983' = 'MDCL NAVSECGRU HOMESTEAD ' "
 /@02 " '1984' = 'BRMCL NAVOLF SAUFLEY FLD ' "
 /@02 " '1985' = '197TH FAM PRACTICE CLINC ' "
 /@02 " '1986' = 'RECEPTN STA FT BENNG EXI ' "
 /@02 " '1987' = 'BRMCL MCB CAMP H M SMITH ' "
 /@02 " '1988' = 'BRMCL NOPF FORD ISLAND ' "
 /@02 " '1989' = 'BRMCL MENTAL HEALTH ' "
 /@02 " '1990' = 'BRMCL NAVSUPPACT E BANK ' "
 /@02 " '1991' = 'MDCL MSC ATLANTIC ' "
 /@02 " '1992' = 'BRMCL BLDG 15 CAMP LEJEU ' "
 /@02 " '1993' = 'BRMCL PHYSEXM BLD 36-LEJ ' "
 /@02 " '1994' = 'BRMCL CORFAC CMP LEJEUNE ' "
 /@02 " '1995' = 'BRMCL FRENCH CREEK MCB ' "
 /@02 " '1996' = 'BRMCL RIVER ROAD MCB ' "
 /@02 " '1997' = 'BRMCL RIFLE RANGE MCB ' "
 /@02 " '1998' = 'DIR HEALTH SVS, BAMC ' "
 /@02 " '1999' = 'BRMCL NARF NORFOLK ' "
 /@02 " '2000' = '2000 ' "
 /@02 " '2500' = '2500 ' "
 /@02 " '3000' = 'NAVY AFLOAT FACILITIES ' "
 /@02 " '3001' = 'NAVY SHIPS-RSRVD FR DMIS ' "

/@02 " '3002' = 'USN SHIP COMFORT 1-AH20 ' "
 /@02 " '3003' = 'USN SHIP MERCY 1-AH19 ' "
 /@02 " '3004' = 'USS GEORGE WASH CVN-73 ' "
 /@02 " '3005' = 'USS CARL VINSON CVN-70 ' "
 /@02 " '3006' = 'USS ENTERPRISE (CVN65) ' "
 /@02 " '3007' = 'USS BLUE RIDGE (LCC 19) ' "
 /@02 " '3008' = 'USS BELLEAU WOOD (LHA 3) ' "
 /@02 " '3009' = 'USS PUGET SOUND (AD38) ' "
 /@02 " '3010' = 'USS YELLOWSTONE (AD41) ' "
 /@02 " '3011' = 'USS SHENANDOAH (AD44) ' "
 /@02 " '3012' = 'USS LA SALLE (AGF3) ' "
 /@02 " '3013' = 'USS CORONADO (AGF11) ' "
 /@02 " '3014' = 'USS SACRAMENTO (AOE1) ' "
 /@02 " '3015' = 'USS CAMDEN (AOE2) ' "
 /@02 " '3016' = 'USS SEATTLE (AOE3) ' "
 /@02 " '3017' = 'USS DETROIT (AOE4) ' "
 /@02 " '3018' = 'USS SUPPLY (AOE5) ' "
 /@02 " '3019' = 'USS RAINIER (AOE7) ' "
 /@02 " '3020' = 'USS ARCTIC (AOE8) ' "
 /@02 " '3021' = 'USS HOLLAND (AS32) ' "
 /@02 " '3022' = 'USS SIMON LAKE (AS33) ' "
 /@02 " '3023' = 'USS L Y SPEAR (AS36) ' "
 /@02 " '3024' = 'USS EMORY A LAND (AS39) ' "
 /@02 " '3025' = 'USS FRANK CABLE (AS40) ' "
 /@02 " '3026' = 'USS MCKEE (AS41) ' "
 /@02 " '3027' = 'USS INDEPENDENCE (CV62) ' "
 /@02 " '3028' = 'USS KITTY HAWK (CV93) ' "
 /@02 " '3029' = 'USS CONSTELLATION (CV64) ' "
 /@02 " '3030' = 'USS AMERICA (CV66) ' "
 /@02 " '3031' = 'USS JOHN F KENNEDY(CV67) ' "
 /@02 " '3032' = 'USS NIMITZ (CVN68) ' "
 /@02 " '3033' = 'USS EISENHOWER (CVN69) ' "
 /@02 " '3034' = 'USS T ROOSEVELT (CVN71) ' "
 /@02 " '3035' = 'USS ABRAHAM LINC (CVN72) ' "
 /@02 " '3036' = 'USS JOHN STENNIS (CVN74) ' "
 /@02 " '3037' = 'USS MT WHITNEY (LCC20) ' "
 /@02 " '3038' = 'USS TARAWA (LHA1) ' "
 /@02 " '3039' = 'USS SAIPAN (LHA2) ' "
 /@02 " '3040' = 'USS NASSAU (LHA4) ' "
 /@02 " '3041' = 'USS PELELIU (LHA5) ' "
 /@02 " '3042' = 'USS WASP (LHD1) ' "
 /@02 " '3043' = 'USS ESSEX (LHD2) ' "
 /@02 " '3044' = 'USS KEARSARGE (LHD3) ' "
 /@02 " '3045' = 'USS BOXER (LHD4) ' "
 /@02 " '3046' = 'USS BATAAN (LHD5) ' "
 /@02 " '3047' = 'USS AUSTIN (LPD4) ' "
 /@02 " '3048' = 'USS OGDEN (LPD5) ' "
 /@02 " '3049' = 'USS DULUTH (LPD6) ' "
 /@02 " '3050' = 'USS CLEVELAMD (LPD7) ' "
 /@02 " '3051' = 'USS DUBUQUE (LPD8) ' "
 /@02 " '3052' = 'USS DENVER (LPD9) ' "
 /@02 " '3053' = 'USS JUNEAU (LPD10) ' "
 /@02 " '3054' = 'USS SHREVEPORT (LPD12) ' "
 /@02 " '3055' = 'USS NASHVILLE (LPD13) ' "
 /@02 " '3056' = 'USS TREMTOM (LPD14) ' "
 /@02 " '3057' = 'USS PONCE (LPD15) ' "
 /@02 " '3058' = 'USS GUAM (LPH9) ' "
 /@02 " '3059' = 'USS NEW ORLEANS (LPH11) ' "

/@02 " '3060' = 'USS WHIDBEY ISLD (LSD41)' "
 /@02 " '3061' = 'USS GERMANTOWN (LSD42)' "
 /@02 " '3062' = 'USS FORT MCHENRY (LSD43)' "
 /@02 " '3063' = 'USS GUNSTON HALL (LSD44)' "
 /@02 " '3064' = 'USS COMSTOCK (LSD45)' "
 /@02 " '3065' = 'USS TORTUGA (LSD46)' "
 /@02 " '3066' = 'USS RUSHMORE (LSD47)' "
 /@02 " '3067' = 'USS ASHLAND (LSD48)' "
 /@02 " '3068' = 'USS CARTER HALL (LSD50)' "
 /@02 " '3069' = 'USS INCHON (MCS12)' "
 /@02 " '4000' = 'NAVY SHIPS-RESV FRM DMIS' "
 /@02 " '4001' = '4001' "
 /@02 " '5001' = '5001' "
 /@02 " '5100' = '5100' "
 /@02 " '5200' = 'COMMANDS-RSRV 5200-5400' "
 /@02 " '5201' = 'USCG MAINT & LOG CMD ATL' "
 /@02 " '5202' = 'USCG MAINT & LOG CMD PAC' "
 /@02 " '5203' = 'NAVAL MEDICAL CMD NE REG' "
 /@02 " '5204' = 'NSHS OAKLOAD' "
 /@02 " '5205' = 'NSHS SAN DIEGO' "
 /@02 " '5206' = 'NSHS BETHESDA' "
 /@02 " '5207' = 'NSHS PORTSMOUTH' "
 /@02 " '5208' = 'USUHS' "
 /@02 " '5209' = 'NSA-FT MEADE' "
 /@02 " '5210' = 'NATL GUARD BUREAU SG OFF' "
 /@02 " '5211' = 'FT LEWIS ASBBC' "
 /@02 " '5212' = 'FT HOOD BLOOD BANK CENTR' "
 /@02 " '5213' = 'CAMP MEM BLOOD DONOR CTR' "
 /@02 " '5214' = 'LANDSTUHL BLOOD DONOR CE' "
 /@02 " '5215' = 'USFK BOOD DONOR CENTER' "
 /@02 " '5216' = 'ADJUTANT GENERAL,ALABAMA' "
 /@02 " '5217' = 'ADJUTANT GENERAL,ALASKA' "
 /@02 " '5218' = 'ADJUTANT GENERAL,ARKANSA' "
 /@02 " '5219' = 'ADJUTANT GENERAL,ARIZONA' "
 /@02 " '5220' = 'ADJUTANT GENERAL,CALIFOR' "
 /@02 " '5221' = 'ADJUTANT GENERAL,COLORAD' "
 /@02 " '5222' = 'ADJUTANT GENERAL,CONN' "
 /@02 " '5223' = 'ADJUTANT GENERAL,DELAWAR' "
 /@02 " '5224' = 'DC ARMY NATIONAL GUARD' "
 /@02 " '5225' = 'ADJUTANT GENERAL,FLORIDA' "
 /@02 " '5226' = 'ADJUTANT GENERAL,GEORGIA' "
 /@02 " '5227' = 'ADJUTANT GENERAL,GUAM' "
 /@02 " '5228' = 'ADJUTANT GENERAL,HAWAII' "
 /@02 " '5229' = 'ADJUTANT GENERAL,IDAHO' "
 /@02 " '5230' = 'ADJUTANT GENERAL,ILLINOI' "
 /@02 " '5231' = 'ADJUTANT GENERAL,INDIANA' "
 /@02 " '5232' = 'ADJUTANT GENERAL,IOWA' "
 /@02 " '5233' = 'ADJUTANT GENERAL,KANSAS' "
 /@02 " '5234' = 'ADJUTANT GENERAL,KENTUCK' "
 /@02 " '5235' = 'ADJUTANT GENERAL,LOUISAN' "
 /@02 " '5236' = 'ADJUTANT GENERAL,MAINE' "
 /@02 " '5237' = 'ADJUTANT GENERAL,MARYLAN' "
 /@02 " '5238' = 'ADJUTANT GENERAL,MASS' "
 /@02 " '5239' = 'ADJUTANT GENERAL,MICHAGA' "
 /@02 " '5240' = 'ADJUTANT GENERAL,MINN' "
 /@02 " '5241' = 'ADJUTANT GENERAL,MISSISS' "
 /@02 " '5242' = 'ADJUTANT GENERAL,MISSOUR' "
 /@02 " '5243' = 'ADJUTANT GENERAL,MONTANA' "

/@02 " '5244' = 'ADJUTANT GENERAL, NEBRASK' "
 /@02 " '5245' = 'ADJUTANT GENERAL, NEVADA ' "
 /@02 " '5246' = 'ADJUTANT GENERAL, NEW HAM' "
 /@02 " '5247' = 'ADJUTANT GENERAL, N JERSE' "
 /@02 " '5248' = 'ADJUTANT GENERAL, N MEXIC' "
 /@02 " '5249' = 'ADJUTANT GENERAL, NEW YOR' "
 /@02 " '5250' = 'ADJUTANT GENERAL, NC ' "
 /@02 " '5251' = 'ADJUTANT GENERAL, N DAKOT' "
 /@02 " '5252' = 'ADJUTANT GENERAL, OHIO ' "
 /@02 " '5253' = 'ADJUTANT GENERAL, OKLAHOM' "
 /@02 " '5254' = 'ADJUTANT GENERAL, OREGON ' "
 /@02 " '5255' = 'ADJUTANT GENERAL, PENN ' "
 /@02 " '5256' = 'ADJUTANT GENERAL, RI ' "
 /@02 " '5257' = 'ADJUTANT GENERAL, SC ' "
 /@02 " '5258' = 'ADJUTANT GENERAL, S DAKOT' "
 /@02 " '5259' = 'ADJUTANT GENERAL, TENN ' "
 /@02 " '5260' = 'ADJUTANT GENERAL, TEXAS ' "
 /@02 " '5261' = 'ADJUTANT GENERAL, UTAH ' "
 /@02 " '5262' = 'ADJUTANT GENERAL, VERMONT' "
 /@02 " '5263' = 'ADJUTANT GENERAL, VIRGINI' "
 /@02 " '5264' = 'ADJUTANT GENERAL, WASH ' "
 /@02 " '5265' = 'ADJUTANT GENERAL, WV ' "
 /@02 " '5266' = 'ADJUTANT GENERAL, WISCONS' "
 /@02 " '5267' = 'ADJUTANT GENERAL, WYOMING' "
 /@02 " '5401' = 'NEWPORT HOSPITAL (CIVLN)' "
 /@02 " '5402' = 'TRIDENT REGIONAL MED CTR' "
 /@02 " '5403' = 'PORTSMOUTH GENERAL HOSP ' "
 /@02 " '5601' = 'VA MEDICAL CENTER-NELLIS' "
 /@02 " '6004' = 'MARGETIS DENTAL CLINIC ' "
 /@02 " '6015' = 'CMHA FT MONMOUTH ' "
 /@02 " '6016' = 'BRMAX WESTLOCH ' "
 /@02 " '6019' = 'USADC GORGAS ' "
 /@02 " '6026' = 'USADC FT WAINWRIGHT ' "
 /@02 " '6027' = 'USADC FT RICHARDSON ' "
 /@02 " '6029' = 'USADC FT GREELY ' "
 /@02 " '6031' = 'COMMUNTY MENTL HLTH SERV' "
 /@02 " '6032' = 'USADC-1 FT IRWIN ' "
 /@02 " '6038' = 'USADC YUMA PROVING GRND ' "
 /@02 " '6040' = 'USADC FORT PICKETT ' "
 /@02 " '6075' = 'OHC JEFFRSN PRVNG GRD-EX' "
 /@02 " '6098' = 'DENTAL CLIN-FT MCCLELLAN' "
 /@02 " '6100' = 'TMC-8, FT CARSON ' "
 /@02 " '6101' = '47TH FLDHSP-DUPDMISID163' "
 /@02 " '6200' = 'AHC PRIMUS (F) FAIRFAX ' "
 /@02 " '6201' = 'AHC PRIMUS (W) WOODBRDGE' "
 /@02 " '6202' = 'AHC PRIMUS (B) BURKE ' "
 /@02 " '6203' = 'AHC PRIMUS (S) SAVANNAH ' "
 /@02 " '6204' = 'NAVY NAVCARE CLN NORFOLK' "
 /@02 " '6205' = 'PRIM CARE NAVCAR CMP LEJ' "
 /@02 " '6206' = 'NAVY NAVCARE CLN MAYPORT' "
 /@02 " '6207' = 'TRICARE OUTPT SANDIEGO 1' "
 /@02 " '6208' = 'AHC PRIMUS (FAY) ' "
 /@02 " '6209' = 'AHC PRIMUS (COP) ' "
 /@02 " '6210' = 'AHC PRIMUS (KIL) ' "
 /@02 " '6211' = 'AHC PRIMUS (COL) ' "
 /@02 " '6212' = 'AHC PRIMUS (SAL) ' "
 /@02 " '6213' = 'AHC PRIMUS (POM) ' "
 /@02 " '6214' = 'TRICARE OUTPT VA BEACH ' "

```

/@02 " '6215' = 'TRICARE OUTPT SANDIEGO 2' "
/@02 " '6216' = 'NAVY NAVCARE CLN VISTA ' "
/@02 " '6217' = 'NAVY NAVCARE CLN CHRLSTN' "
/@02 " '6218' = 'NAVY NAVCARE CLN TUSTIN ' "
/@02 " '6219' = 'NAVY NAVCARE CLN OAKLAND' "
/@02 " '6220' = 'NAVY NAVCARE CLN CECIL F' "
/@02 " '6221' = 'TRICARE OUTPT CHESAPEAKE' "
/@02 " '6222' = 'NAVY NAVCARE CLN SAN DIE' "
/@02 " '6500' = 'RSRV FOR CCP (6500-6799)' "
/@02 " '6501' = 'TRICARE SRV AREA PORTSMO' "
/@02 " '6502' = 'SAN ANTONIO SRV AREA LAC' "
/@02 " '6503' = 'SAN FRANCISCO SRV AREA ' "
/@02 " '6504' = 'SO CA SRVC AREA (SAN DIE' "
/@02 " '6505' = 'COLORADO SRVC AREA (CARS' "
/@02 " '6506' = 'FT STEWART/BEAUFORT SRVC' "
/@02 " '6507' = 'NORTH CAROLINA SRVC AREA' "
/@02 " '6508' = 'SOUTH CAROLINA SRVC AREA' "
/@02 " '6509' = 'DELAWARE VALLY SRVC AREA' "
/@02 " '6510' = 'WASHINGTON SRVC AREA ' "
/@02 " '6511' = 'HAWAII TRICARE CATCHMENT' "
/@02 " '6512' = 'CALIFORNIA/HAWAII ENROLL' "
/@02 " '6601' = 'REGION 01-NATNL CAPITAL ' "
/@02 " '6602' = 'REGION 02-PORTSMOUTH ' "
/@02 " '6603' = 'REGION 03-EISENHOWER ' "
/@02 " '6604' = 'REGION 04-KEESER ' "
/@02 " '6605' = 'REGION 05-WRIGHT-PATTRSN' "
/@02 " '6606' = 'REGION 06-WILFORD HALL ' "
/@02 " '6607' = 'REGION 07-WILLM BEAUMONT' "
/@02 " '6608' = 'REGION 08-FITZSIMONS ' "
/@02 " '6609' = 'REGION 09-SAN DIEGO ' "
/@02 " '6610' = 'REGION 10-DAVID GRANT ' "
/@02 " '6611' = 'REGION 11-MADIGAN ' "
/@02 " '6612' = 'REGION 12-TRIPLER ' "
/@02 " '6613' = 'REGION ALASKA ' "
/@02 " '6614' = 'REGION EUROPE ' "
/@02 " '6615' = 'REGION LANDSTUHL ' "
/@02 " '6616' = 'REGION KOREA ' "
/@02 " '6901' = 'MANAGED CARE CNTR-REG 01' "
/@02 " '6902' = 'MANAGED CARE CNTR-REG 02' "
/@02 " '6903' = 'MANAGED CARE CNTR-REG 03' "
/@02 " '6904' = 'MANAGED CARE CNTR-REG 04' "
/@02 " '6905' = 'MANAGED CARE CNTR-REG 05' "
/@02 " '6906' = 'MANAGED CARE CNTR-REG 06' "
/@02 " '6907' = 'MANAGED CARE CNTR-REG TC' "
/@02 " '6909' = 'MANAGED CARE CNTR-REG 09' "
/@02 " '6910' = 'MANAGED CARE CNTR-REG 10' "
/@02 " '6911' = 'MANAGED CARE CNTR-REG 11' "
/@02 " '6912' = 'MANAGED CARE CNTR-REG 12' "
/@02 " '6916' = 'MANAGED CARE CNTR-REG AK' "
/@02 " '6991' = 'ACTIVE DUTY ARMY ' "
/@02 " '6992' = 'ACTIVE DUTY NAVY ' "
/@02 " '6993' = 'ACTIVE DUTY USAF ' "
/@02 " '6994' = 'ACTIVE DUTY NON-DOD ' "
/@02 " '7001' = 'SOLDIERs HOME ' "
/@02 " '7002' = 'DEFENSE MAPPING AGENCY ' "
/@02 " '7003' = 'HARRY DIAMOND LAB ' "
/@02 " '7004' = 'TEAGU ' "
/@02 " '7005' = 'SUWON ' "

```

```

/@02 " '7017' = 'NBMC WALLOPS ISLAND      '  "
/@02 " '7018' = 'BDC NWS SEAL BEACH      '  "
/@02 " '7019' = 'BRDAX NAS GUANTANAMO BAY'  "
/@02 " '7020' = 'NAVAREADENLAB NORFOLK    '  "
/@02 " '7021' = 'NBDC KEFLAVIK          '  "
/@02 " '7022' = 'BDCL NAVAL WAR COLLEG    '  "
/@02 " '7023' = 'BDCL NETC NEWPORT      '  "
/@02 " '7024' = 'BRDAX GENDYNCORP       '  "
/@02 " '7025' = 'BRDENCL ARGENTIA       '  "
/@02 " '7026' = 'NAVAREADENLAB SAN DIEGO  '  "
/@02 " '7027' = 'BDA NTC BLDG246 SANDIEGO'  "
/@02 " '7028' = 'BDA NTC BLDG557 SANDIEGO'  "
/@02 " '7029' = 'BRDCL NTTC PENSACOLA    '  "
/@02 " '7030' = 'BRDCL NRTC GREAT LAKES '  "
/@02 " '7031' = 'USAHC RHEINBERG        '  "
/@02 " '7032' = 'BMCL CAMP BUSH/COURTNEY '  "
/@02 " '7033' = 'NMCL CAMP HANSEN-OKINAWA'  "
/@02 " '7034' = '30th FIELD HOSPITAL (TOE'  "
/@02 " '7035' = '225th STATION HSPTL (TOE'  "
/@02 " '7036' = '130th GENERAL HSPTL (TOE'  "
/@02 " '7037' = '279th STATION HSPTL (TOE'  "
/@02 " '7038' = 'ARMED FORCS INST PATHLGY'  "
/@02 " '7039' = '7th CMBT SPTHSP-LANDSTUH'  "
/@02 " '7040' = '339th GENERAL HSPTL (TOE'  "
/@02 " '7041' = 'USA DENCLIN TRIPLER     '  "
/@02 " '7042' = 'AIR STATION BORINQUEN   '  "
/@02 " '7043' = 'USCG CLINIC HONOLULU   '  "
/@02 " '7044' = 'USCG CLINIC JUNEAU     '  "
/@02 " '7045' = 'USCG CLINIC NORTH BEND  '  "
/@02 " '7046' = 'USCG CLINIC SAN PEDRO   '  "
/@02 " '7047' = 'USCG CLINIC SITKA    '  "
/@02 " '7048' = 'USCG CLINIC BASE MIAMI  '  "
/@02 " '7049' = 'USCG CLIN HAMLTN BRNCH  '  "
/@02 " '7050' = '4th ASF-LACKLAND AFB    '  "
/@02 " '7051' = '16th MASH-DUPIDSEE1189   '  "
/@02 " '7052' = '20th TAC HOSP            '  "
/@02 " '7053' = '7206th TAC HOSP      '  "
/@02 " '7054' = '316th TAC HOSP        '  "
/@02 " '7055' = 'USAF CLN,TONOPAH TST RNG'  "
/@02 " '7056' = '1st ATH-LANGLEY        '  "
/@02 " '7057' = '6th ATH-MACDILL         '  "
/@02 " '7058' = '59th ATH-WILFORD HALL  '  "
/@02 " '7059' = 'USAF CL UPWOOD-EXISTS 08'  "
/@02 " '7060' = '49th ATH-HOLLOMAN       '  "
/@02 " '7061' = 'BRMCL MCFC KANSAS CITY   '  "
/@02 " '7062' = '58TH AIR TRANS HOSP (ATH'  "
/@02 " '7063' = '355th ATH-DAVIS-MONTHAN  '  "
/@02 " '7064' = '355 DENTAL SQ/SGD -DAVIS'  "
/@02 " '7065' = '56 DENTAL SQ/SGD - LUKE   '  "
/@02 " '7066' = '2ND ASF TRAVIS AFB       '  "
/@02 " '7067' = 'CADET CLINIC OL ACADEMY   '  "
/@02 " '7068' = '10th ASF ANDREWS AFB    '  "
/@02 " '7069' = '11 MEDICAL GP/SGD-BOLLNG'  "
/@02 " '7070' = 'HQ USAF/SG              '  "
/@02 " '7071' = '3rd CSH (TOE)          '  "
/@02 " '7072' = '78 MEDICAL GP/SGD-ROBINS'  "
/@02 " '7073' = '1st ASF SCOTT AFB     '  "
/@02 " '7074' = 'USAF CLINIC SAN JICO     '  "

```

```

/@02 " '7075' = '18th MASH (TOE) ' "
/@02 " '7076' = '55 DENTAL SQ/SGD-OFFUTT ' "
/@02 " '7077' = 'USAF CLINIC WOENSDRECHT ' "
/@02 " '7078' = '99 DENTAL SQ/SGD-NELLIS ' "
/@02 " '7079' = 'CLINIC ARNOLD STATION ' "
/@02 " '7080' = '72 MEDICAL GP/SGD-TINKER ' "
/@02 " '7081' = 'BASE FORT MACON CG CLIN ' "
/@02 " '7082' = 'GROUP GALVESTON CG CLIN ' "
/@02 " '7083' = 'GROUP HUMBLDT BAY CG CLN' "
/@02 " '7084' = 'BDA NAVFAC CENTRVILL BCH' "
/@02 " '7085' = 'BDA NSC OAKLAND ' "
/@02 " '7086' = 'BDCL PANAMA CANAL ' "
/@02 " '7087' = 'BDA ARLNX ARLINGTON ' "
/@02 " '7088' = 'BDA HENDRSN HALL ARLNGTN' "
/@02 " '7089' = '82 DENTAL SQ/CC-SHEPPARD' "
/@02 " '7090' = 'MCFMF OKINAWA ' "
/@02 " '7091' = 'USA DENTL ACTVTY-FT HOOD' "
/@02 " '7092' = 'BATES FIELD USCG CLINIC ' "
/@02 " '7093' = 'BDCL KINGS BAY ' "
/@02 " '7094' = 'FMSS CAMP PENDLETON ' "
/@02 " '7095' = '2nd DNTL BN B460-CMP LEJ' "
/@02 " '7096' = '22nd DNTL CO FRENCHCREEK' "
/@02 " '7097' = 'NBDC COLTS NECK EARLE ' "
/@02 " '7098' = 'BDCL MOBILE ' "
/@02 " '7099' = 'BDCL INGLESIDE ' "
/@02 " '7100' = '19th ASF-ELMENDORF ' "
/@02 " '7101' = '18th ASF-RAMSTEIN ' "
/@02 " '7102' = '374TH ASF - YOKOTA AB ' "
/@02 " '7103' = '99th ATH-NELLIS ' "
/@02 " '7104' = '366th ATH-MOUNTAIN HOME ' "
/@02 " '7105' = '39th ATH-INCIRLIK ' "
/@02 " '7106' = 'MTC MED AID STA SUMMATN ' "
/@02 " '7107' = 'BRMCL CMP SCHWAB-OKINAWA' "
/@02 " '7108' = 'BMCL MOBILE ' "
/@02 " '7109' = 'NAVMEDCOM, NE REG ' "
/@02 " '7110' = 'FLT LN MEDAID ST CAPODIC' "
/@02 " '7111' = 'DENTAC COMMAND, FT BRAGG' "
/@02 " '7112' = 'BRMCL MCAS TORII STATION' "
/@02 " '7113' = 'CONNOR CTMC ' "
/@02 " '7114' = 'BRMCL USNCS YOKOSUKA,JAP' "
/@02 " '7115' = 'USADC-RIVA RIDGE ' "
/@02 " '7116' = 'USADC-WILCOX ' "
/@02 " '7117' = 'USADC 121 HOSP/ORAL SURG' "
/@02 " '7118' = 'DISPENSARY, CAMP HOVEY ' "
/@02 " '7119' = 'EASY CASEY COMBD AID STA' "
/@02 " '7120' = 'HHC 2D WRD MED SEC AID S' "
/@02 " '7121' = 'HHC AVNBDE AID ST,CMP ST' "
/@02 " '7122' = 'NSWC WHITE OAK ' "
/@02 " '7123' = '1/2 AVBAUD STA,CMP LAGUA' "
/@02 " '7124' = 'BRMCL NRTF, CAPAS TARLAC' "
/@02 " '7125' = '2/2 AVNAID STA,CAMP STAN' "
/@02 " '7126' = 'BRMAX NALF GOLIAD ' "
/@02 " '7127' = 'BRMAX NALF ORANGE GROVE ' "
/@02 " '7128' = 'BRMCL NPB, BOONE ' "
/@02 " '7129' = '5/17 CAVAID STA,CMP MOBI' "
/@02 " '7130' = '5/17 CAVAID STA,CMP PELH' "
/@02 " '7131' = '1/5 IN AID STA,CMP HOVEY' "
/@02 " '7132' = '1/506 IN AID STA,CMP GRE' "

```



```

/@02 " '7133' = '44 ENG AID STA,CMP HOWZE' "
/@02 " '7134' = '5 ADS AID STA,CMP STANTN' "
/@02 " '7135' = 'BDG DNTL CLN-FT SAM HOUS' "
/@02 " '7136' = 'USADC-RHOADES' "
/@02 " '7137' = '6th ASF-KEESLER' "
/@02 " '7138' = 'NMCL EVERETT' "
/@02 " '7139' = '16th MED GRP-HURLBRT FLD' "
/@02 " '7140' = 'BRMCL PHILADELPHIA, DET' "
/@02 " '7141' = 'BRDCL NAVAL STA EVERETT' "
/@02 " '7142' = '502nd MASH (TOE)' "
/@02 " '7143' = 'AHC ROBINSON-FT BRAGG' "
/@02 " '7144' = 'BRDCL BREMERTON' "
/@02 " '7145' = 'USADC-5 FT LEWIS' "
/@02 " '7146' = '42 DENTAL SQ/SGD-GUNTER' "
/@02 " '7147' = 'TMC-3, WRAMC' "
/@02 " '7148' = 'WRAIR' "
/@02 " '7149' = 'TMC-9, WRAMC' "
/@02 " '7150' = 'BRMCL JUSMAG, MANILA' "
/@02 " '7151' = 'NAVAL MEDICL CMD PAC RGN' "
/@02 " '7152' = 'AHC COLEMAN' "
/@02 " '7153' = '761st MED DET-KNIELINGEN' "
/@02 " '7154' = 'TMC FT DIX' "
/@02 " '7155' = 'BDCL NAVSTA US NAVL ACAD' "
/@02 " '7156' = 'BDCL NEWPORT' "
/@02 " '7157' = 'BRMCL CMP SCHWAB-OKINAWA' "
/@02 " '7158' = 'NAVAL AEROSPACE MED INST' "
/@02 " '7159' = 'SAUFLEY FIELD FED PRISON' "
/@02 " '7160' = 'MENTL HLTH DPT NH PENSAC' "
/@02 " '7161' = '67th CSH (TOE)-WUERZBURG' "
/@02 " '7162' = 'FST, 67th CSH-WUERZBURG' "
/@02 " '7163' = 'FST, 212th MASH-WEISBADN' "
/@02 " '7164' = '96th CVL AFFRS BAT (ARB)' "
/@02 " '7165' = '6th DENTAL SQDRN-MACDILL' "
/@02 " '7166' = '528th SPPT BAT (SPEC OP)' "
/@02 " '7167' = 'HQ, USASOC-FT BRAGG' "
/@02 " '7168' = 'HQ, 1st SFG (AIRBORNE)-L' "
/@02 " '7169' = '1st SFG (1st BTLN)-OKINA' "
/@02 " '7170' = '1st SFG (2nd BTLN)-LEWIS' "
/@02 " '7171' = '1st SFG (3rd BTLN)-LEWIS' "
/@02 " '7172' = 'HQ, 3rd SFG (AIRBORNE)-B' "
/@02 " '7173' = '3rd SFG (1st BTLN)-BRAGG' "
/@02 " '7174' = '3rd SFG (2nd BTLN)-BRAGG' "
/@02 " '7175' = '3rd SFG (3rd BTLN)-BRAGG' "
/@02 " '7176' = 'HQ 5th SFG (AIRBORNE)-CA' "
/@02 " '7177' = '5th SFG (1st BTLN)-CMPBL' "
/@02 " '7178' = '5th SFG (2nd BTLN)-CMPBL' "
/@02 " '7179' = '5th SFG (3rd BTLN)-CMPBL' "
/@02 " '7180' = 'HQ 7th SFG (AIRBORNE)-B' "
/@02 " '7181' = '7th SFG (1st BTLN)-BRAGG' "
/@02 " '7182' = '7th SFG (2nd BTLN)-BRAGG' "
/@02 " '7183' = '7th SFG (3rd BTLN)-BRAGG' "
/@02 " '7184' = 'HQ 160th SPEC OPS AV REG' "
/@02 " '7185' = '160 SOAR(1ST BTLN)-CMPBL' "
/@02 " '7186' = '160 SOAR(2nd BTLN)-CMPBL' "
/@02 " '7187' = '160 SOAR(3rd BTLN)-STWRT' "
/@02 " '7188' = 'HQ 75th RANGER REG-BENNG' "
/@02 " '7189' = '75th RNGR REG (1st BTLN)' "
/@02 " '7190' = '75th RNGR REG (2nd BTLN)' "

```

/@02 " '7191' = '75th RNGR REG (3rd BTLN)' "

/@02 " '7192' = '10th SFG (1st BTLN)-STUT' "

/@02 " '7193' = '10th SFG (2nd BTLN)-CARS' "

/@02 " '7194' = '10th SFG (3rd BTLN)-CARS' "

/@02 " '7195' = 'HQ,USA SP LOP SPPT SOSCO' "

/@02 " '7196' = 'BRMCL CHINHAE KOREA' "

/@02 " '7197' = 'CONNELLY HLTH CLN-FTGORD' "

/@02 " '7198' = 'NELSON MEDICL CLN-FTKNOX' "

/@02 " '7199' = 'CONSOLIDATED TMC-FT POLK' "

/@02 " '7200' = '821st MED SQD-BUCKLEY AN' "

/@02 " '7201' = 'USADC GIEBELSTADT' "

/@02 " '7202' = 'USADC LEIGHTON' "

/@02 " '7203' = 'USADC VILSECK' "

/@02 " '7204' = 'USADC WUERZBURG' "

/@02 " '7205' = 'USADC-2 FT STEWART' "

/@02 " '7206' = 'USADC THOMAS' "

/@02 " '7207' = 'USADC SELFRIDGE' "

/@02 " '7208' = '14TH FIELD HOSPITAL TOE' "

/@02 " '7209' = 'SLEDGEHAMMER CLINIC(3RD' "

/@02 " '7210' = '17 MDOS/SGOD -GOODFELLOW' "

/@02 " '7211' = '405TH CMBT SUPHSP-BOSNIA' "

/@02 " '7212' = '324TH CMBT SUPHSP-HUNGRY' "

/@02 " '7213' = 'FST 324TH CSH' "

/@02 " '7214' = 'FST 324TH CSH-TABORFALVA' "

/@02 " '7215' = 'FST 324TH CSH-KAPOSJNLAK' "

/@02 " '7216' = 'FST 405TH CSH-BOSNIA' "

/@02 " '7217' = 'NOLA DENTL- AIR NATL GD' "

/@02 " '7218' = 'NOLA AF RESERVE CLINIC' "

/@02 " '7219' = 'ARMSTRONG LAB-BROOKS AFB' "

/@02 " '7220' = 'AFCAPS-LACKLAND AFB' "

/@02 " '7221' = 'USAF MED TNG FAC-SHEPPRD' "

/@02 " '7222' = 'GOWEN FIELD TMC - BOISE' "

/@02 " '7223' = 'CAMP PARKS TMC - DUBLIN' "

/@02 " '7224' = 'CAMP RILEA TMC -WARRNGTN' "

/@02 " '7225' = 'CAMP ROBERTS TMC-ROBERTS' "

/@02 " '7226' = 'CAMP SANLUIS OBISPO TMC-' "

/@02 " '7227' = 'CAMP DOHA HEALTH CLINIC' "

/@02 " '7228' = 'EAGLE TOWN HEALTH CLINIC' "

/@02 " '7229' = 'ESKAN VILLAGE HEALTH CLN' "

/@02 " '7230' = 'QATAR AID STATION' "

/@02 " '7231' = 'NIGHT STALKER CLINIC' "

/@02 " '7232' = 'FT MACARTHUR CLINIC' "

/@02 " '7233' = 'DUPLICATE DMISID 0653' "

/@02 " '7234' = 'MENWITH HILL MEDICAL CNT' "

/@02 " '7235' = '426ST ABS MED AID STATIO' "

/@02 " '7236' = 'BENNETT FAM CARE CLN-HOO' "

/@02 " '7237' = 'SACILLE HOSPITAL -SACILL' "

/@02 " '7238' = 'THE ADJUTANT GENERAL' "

/@02 " '7239' = 'SOUTHCOM CLN -FT STEWART' "

/@02 " '7240' = 'RAF MENWITH - HILL MED' "

/@02 " '7241' = 'FT WAINWRIGHT-KAMISH DNT' "

/@02 " '7242' = 'TASZAR AHC - TASZAR' "

/@02 " '7243' = '94TH GEN HOSP-SEAGOVILLE' "

/@02 " '7244' = '396TH CSH - VANCOUVER WA' "

/@02 " '7245' = '423 MED FLT/SGD-ALCONBRY' "

/@02 " '7246' = '36 MED GP/SGOD-ANDERSEN' "

/@02 " '7247' = '9TH DNTL FLT/SGOD-BEALE' "

/@02 " '7248' = '70 MED SQ/SGD - BROOKS' "

```

/@02 " '7249' = '27 AEROMED DEN SQ-CANNON' "
/@02 " '7250' = '422 MED FLT/SGD-CROUGHTN' "
/@02 " '7251' = '96 MED GP/SGD - EGLIN' "
/@02 " '7252' = '90 DS/SGD - FE WARREN' "
/@02 " '7253' = '470 MED FLT/SGD-GEILENKI' "
/@02 " '7254' = '66 MED GP/SGD OL-ROME-GR' "
/@02 " '7255' = '75 MED GP/SGD - HILL' "
/@02 " '7256' = '15 MED GP/SGD - HICKAM' "
/@02 " '7257' = '24 DNTL SG/SGD - HOWARD' "
/@02 " '7258' = '16 MED GP/SGOD - HURLBRT' "
/@02 " '7259' = '39 DNTL SQ/CC - INCIRLIK' "
/@02 " '7260' = '76 MDOS/SGD - KELLY' "
/@02 " '7261' = '377TH DNTL SQ/SGD-KIRTL'D' "
/@02 " '7262' = '8 MED GP/SGDO - KUNSAN' "
/@02 " '7263' = '47 DNTL FLT/SGOD -LAUGHL' "
/@02 " '7264' = '314 DNTL SQ/SGD -LTL RCK' "
/@02 " '7265' = '61 MED SQ/SGD -LOSANGELE' "
/@02 " '7266' = '77 MED GP/SGD -MCCLELLAN' "
/@02 " '7267' = '347 DNTL SQ/SGD - MOODY' "
/@02 " '7268' = '750 MDS/SGD - ONIZUKA' "
/@02 " '7269' = '21 DS/SGD - PETERSON' "
/@02 " '7270' = '469 ABG/SGD - RHEIN MAIN' "
/@02 " '7271' = '86 DNTL SQ/SGDDD-SEMBACH' "
/@02 " '7272' = '52 DNTL SQ/CC-SPANGDAHLE' "
/@02 " '7273' = '325 DNTL SQ/SGD -TYNDALL' "
/@02 " '7274' = '71 MED OPS SQ/SGOD-VANCE' "
/@02 " '7275' = '30 DS/SGD - VANDENBERG' "
/@02 " '7276' = '509 AEROMED DEN-WHITEMAN' "
/@02 " '7277' = '74 DNTL SQ/SGD -WRIGHT P' "
/@02 " '7278' = 'NBMC COLTS NECK EARLE PI' "
/@02 " '7279' = 'BRDCL CAMP FOSTER' "
/@02 " '7280' = 'BRDCL CAMP COURTNEY' "
/@02 " '7281' = 'BRDCL CAMP KINSER' "
/@02 " '7282' = 'BRDCL CAMP HANSEN' "
/@02 " '7283' = 'BRDCL CAMP SCHWAB' "
/@02 " '7284' = 'BRDCL CAMP FUTENMA' "
/@02 " '7285' = 'US ARMY INST SURG RESRCH' "
/@02 " '7286' = 'JOEL AHC' "
/@02 " '7287' = 'USAREUR' "
/@02 " '7288' = 'BRANCH MED ANX HARIO, JA' "
/@02 " '7289' = 'CTMC, FT RILEY' "
/@02 " '7290' = 'WAMC DNTL CLN' "
/@02 " '7291' = 'JOEL DNTL CLN' "
/@02 " '7901' = 'REMOTE 01' "
/@02 " '7902' = 'REMOTE 02' "
/@02 " '7903' = 'REMOTE 03' "
/@02 " '7904' = 'REMOTE 04' "
/@02 " '7905' = 'REMOTE 05' "
/@02 " '7906' = 'REMOTE 06' "
/@02 " '7907' = 'REMOTE TC' "
/@02 " '7909' = 'REMOTE 09' "
/@02 " '7910' = 'REMOTE 10' "
/@02 " '7911' = 'REMOTE 11' "
/@02 " '7912' = 'REMOTE 12' "
/@02 " '7916' = 'REMOTE AK - ALASKA' "
/@02 " '8000' = '8000-8200 USED TSC-PCM' "
/@02 " '8001' = '74TH MED GROUP -TSC PCM' "
/@02 " '8002' = 'SCOTT MED CNTR TSC-PCM' "

```

```

/@02 " '8003' = 'NAV HOSP GR LAKE TSC-PCM' "
/@02 " '8004' = 'BLANCHFLD ARMYHSP TSC-PC' "
/@02 " '8005' = 'IRELAND ACH-KNOX TSC-PCM' "
/@02 " '8006' = 'PORTSMOUTH NH - MCS-PCM' "
/@02 " '8007' = 'CAMP LEJEUNE - MCS-PCM' "
/@02 " '8008' = 'SEY JOHNSON AFB-MCS-PCM' "
/@02 " '8009' = 'FT BRAGG - MCS-PCM' "
/@02 " '8010' = '89TH MEDGRP ANDREWS -PCM' "
/@02 " '8011' = '305TH MEDGRP MCQUIRE-PCM' "
/@02 " '8012' = '66TH MEDGRP HANSCOM -PCM' "
/@02 " '8013' = '436TH MEDGRP DOVER -PCM' "
/@02 " '8014' = 'WALTER REED AMC -PCM' "
/@02 " '8015' = 'KELLER ACH TSC-PCM' "
/@02 " '8016' = 'GUTHRIE AHC-FT DRUM -PCM' "
/@02 " '8017' = 'NNMC BETHESDA TSC-PCM' "
/@02 " '8018' = 'NAVAMBCARECEN GROTON-PCM' "
/@02 " '8019' = 'CHAUTE AFB(RANTOUL) -PCM' "
/@02 " '8020' = 'FT BENJAMIN HARRISON-PCM' "
/@02 " '8021' = 'GRISSOM AFB(PERU) -PCM' "
/@02 " '8022' = 'KI SAWYER AFB(GWINN)-PCM' "
/@02 " '8023' = 'WURTSMTMTH AFB(OSCODA)-PCM' "
/@02 " '8024' = 'AKRON/CANTON TSC-PCM' "
/@02 " '8025' = 'CHICAGO/GARY TSC-PCM' "
/@02 " '8026' = 'CINCINNATI TSC-PCM' "
/@02 " '8027' = 'CLEVELAND TSC-PCM' "
/@02 " '8028' = 'COLUMBUS TSC-PCM' "
/@02 " '8029' = 'DETROIT TSC-PCM' "
/@02 " '8030' = 'LANGLEY AFB TSC-PCM' "
/@02 " '8031' = 'NH CHERRY POINT TSC-PCM' "
/@02 " '8032' = 'FORT LEE TSC-PCM' "
/@02 " '8033' = 'FORT EUSTIS TSC-PCM' "
/@02 " '8034' = 'MILWAUKEE TSC-PCM' "
/@02 " '8035' = 'ST LOUIS TSC-PCM' "
/@02 " '8036' = 'YOUNGSTOWN TSC-PCM' "
/@02 " '8500' = 'NO ATLANTIC REG VET CMD' "
/@02 " '8501' = 'NATL CAPITL DIST VET CMD' "
/@02 " '8502' = 'FT BELVOIR VETERINRY FAC' "
/@02 " '8503' = 'DAHLGREN FI VETRNRY FAC' "
/@02 " '8504' = 'QUANTICO VETRNRY FAC' "
/@02 " '8505' = 'AP HILL FI VETRNRY FAC' "
/@02 " '8506' = 'ANDREWS VETRNRY FAC' "
/@02 " '8507' = 'PATUXENT FI VETRNRY FAC' "
/@02 " '8508' = 'JESSUP SUPPLY POINT' "
/@02 " '8509' = 'FT MYER VETRNRY FAC' "
/@02 " '8510' = 'FRONT ROYAL VETRNRY FAC' "
/@02 " '8511' = 'FOREST GLEN VETRNRY FAC' "
/@02 " '8512' = 'DETRICK VETRNRY FAC' "
/@02 " '8513' = 'FT MEADE VETRNRY FAC' "
/@02 " '8514' = 'ANNAPOLIS VETRNRY FAC' "
/@02 " '8515' = 'ABERDN PROV GRND VET FAC' "
/@02 " '8516' = 'EDGEWOOD VETRNRY FAC' "
/@02 " '8517' = 'DOVER AFB VETRNRY FAC' "
/@02 " '8518' = 'ALLEGHENY DIST VET FAC' "
/@02 " '8519' = 'KELLY SUPPLY FAC VET FAC' "
/@02 " '8520' = 'NEW CUMBERLD VETRNRY FAC' "
/@02 " '8521' = 'FT INDIANTN FI VET FAC' "
/@02 " '8522' = 'TOBYHANNA DEP FI VET FA' "
/@02 " '8523' = 'MECHANICSBURG FI VET FAC' "

```

/@02 " '8524' = 'LETTERKNY AD VETRNRY FAC' "
 /@02 " '8525' = 'FT DRUM VETRNRY FAC' "
 /@02 " '8526' = 'SCOTIA NAVY VETRNRY FAC' "
 /@02 " '8527' = 'FT KNOX VETRNRY FAC' "
 /@02 " '8528' = 'HARRISN VILLG FI VET FAC' "
 /@02 " '8529' = 'SCOTT AFB VETRNRY FAC' "
 /@02 " '8530' = 'GRANITE CITY VETRNRY FAC' "
 /@02 " '8531' = 'WRIGHT-PTRSN VETRNRY FAC' "
 /@02 " '8532' = 'SELFRRIDGE ANGB VETRNRY F' "
 /@02 " '8533' = 'CAMP ATTERBURY VETRNRY F' "
 /@02 " '8534' = 'CRANE NWS VETRNRY FAC' "
 /@02 " '8535' = 'CAMP GRAYLNG VETRNRY FAC' "
 /@02 " '8536' = 'GREAT LAKES VETRNRY FAC' "
 /@02 " '8537' = 'FT MCCOY FI VETRNRY FAC' "
 /@02 " '8538' = 'ROCK ISLAND VETRNRY FAC' "
 /@02 " '8539' = 'CHICAGO TERM MRKT VET FA' "
 /@02 " '8540' = 'CAMP RIPLEY VETRNRY FAC' "
 /@02 " '8541' = 'NORTHEAST DIST VET CMD' "
 /@02 " '8542' = 'FT MONMOUTH VETRNRY FAC' "
 /@02 " '8543' = 'BRUNSWICK VETRNRY FAC' "
 /@02 " '8544' = 'HANSCOM AFB VETRNRY FAC' "
 /@02 " '8545' = 'NEW HAMPSHIRE FI VET FAC' "
 /@02 " '8546' = 'NEW LONDON VETRNRY FAC' "
 /@02 " '8547' = 'NEWPORT FI VETRNRY FAC' "
 /@02 " '8548' = 'DLA SUPPLY POINT VET FAC' "
 /@02 " '8549' = 'GROTON FI VETRNRY FAC' "
 /@02 " '8550' = 'WEST POINT VETRNRY FAC' "
 /@02 " '8551' = 'MCGUIRE/DIX VETRNRY FAC' "
 /@02 " '8552' = 'LAKEHURST NVL ST VET FAC' "
 /@02 " '8553' = 'FT DIX VETRNRY FAC' "
 /@02 " '8554' = 'AZORE VETRNRY FAC' "
 /@02 " '8555' = 'PHILA SUPPLY PT VET FAC' "
 /@02 " '8556' = 'LAJES FLD VETRNRY FAC' "
 /@02 " '8557' = 'MID-ATLANTC DIST VET CMD' "
 /@02 " '8558' = 'PENINSULA VETRNRY FAC' "
 /@02 " '8559' = 'GLOUCESTER FI VETRNRY FA' "
 /@02 " '8560' = 'FT EUSTIS FI VETRNRY FAC' "
 /@02 " '8561' = 'FT MONROE FI VETRNRY FAC' "
 /@02 " '8562' = 'LANGLEY AFB VETRNRY FAC' "
 /@02 " '8563' = 'NORFOLK VETRNRY FAC' "
 /@02 " '8564' = 'PORTSMOUTH FI VETRNRY FA' "
 /@02 " '8565' = 'LITTL CRK FI VETRNRY FAC' "
 /@02 " '8566' = 'OCEANA NVY AIR STN VET F' "
 /@02 " '8567' = 'FT STORY FI VETRNRY FAC' "
 /@02 " '8568' = 'FT LEE VETRNRY FAC' "
 /@02 " '8569' = 'RICHMOND FI VETRNRY FAC' "
 /@02 " '8570' = 'GITMO VET DETACHMENT' "
 /@02 " '8571' = 'FT BRAGG VETRNRY FAC' "
 /@02 " '8572' = 'SEY JOHNSON AFB VET FAC' "
 /@02 " '8573' = 'CHERRY POINT VETRNRY FAC' "
 /@02 " '8574' = 'CAMP LEJEUNE VETRNRY FAC' "
 /@02 " '8575' = 'NEW RIVER FI VETRNRY FAC' "
 /@02 " '8576' = 'NORTH WEST REGNL VET CMD' "
 /@02 " '8577' = 'NO CALIFORN DIST VET CMD' "
 /@02 " '8578' = 'TRACY VETRNRY FAC' "
 /@02 " '8579' = 'STOCKTON FI VETRNRY FAC' "
 /@02 " '8580' = 'BEALE AFB VETRNRY FAC' "
 /@02 " '8581' = 'SACRAMENTO VETRNRY FAC' "

/@02 " '8582' = 'FALLON NAV AIRSTA VET FA' "
 /@02 " '8583' = 'TRAVIS AFB VETRNRV FAC ' "
 /@02 " '8584' = 'NORTH BAY FI VETRNRV FAC' "
 /@02 " '8585' = 'BAY AREA SUPP PNT VET FA' "
 /@02 " '8586' = 'LEMOORE NAVAL AIRSTA VET' "
 /@02 " '8587' = 'MONTEREY FI VETRNRV FAC ' "
 /@02 " '8588' = 'PNW DISTRICT VET CMD ' "
 /@02 " '8589' = 'FT LEWIS VETRNRV FAC ' "
 /@02 " '8590' = 'YAKIMA TRAIN CTR-TISA VE' "
 /@02 " '8591' = 'OLYMPIC VETRNRV FAC ' "
 /@02 " '8592' = 'BANGOR VETRNRV FAC ' "
 /@02 " '8593' = 'BREMERTON FI/COMM VET FA' "
 /@02 " '8594' = 'RANIER VETRNRV FAC ' "
 /@02 " '8595' = 'MCCHORD VETRNRV FAC ' "
 /@02 " '8596' = 'DLA SUPPLY PT VETRNRV FA' "
 /@02 " '8597' = 'FAIRCHILD AFB VETRNRV FA' "
 /@02 " '8598' = 'MOUNTN HME AFB VETRNRV F' "
 /@02 " '8599' = 'CASCADE VETRNRV FAC ' "
 /@02 " '8600' = 'EVERETTE FI VETRNRV FAC ' "
 /@02 " '8601' = 'ALASKA DISTRICT VET CMD ' "
 /@02 " '8602' = 'FT RICHARDSN VETRNRV FAC' "
 /@02 " '8603' = 'KODIAK FI VETRNRV FAC ' "
 /@02 " '8604' = 'FT WAINWRGHT VETRNRV FAC' "
 /@02 " '8605' = 'FT GREELY VETRNRV FAC ' "
 /@02 " '8606' = 'EIELSON AFB VETRNRV FAC ' "
 /@02 " '8607' = 'SO CALIFORN VETRNRV FAC ' "
 /@02 " '8608' = 'SAN DIEGO VETRNRV FAC ' "
 /@02 " '8609' = 'MIRIMAR VETRNRV FAC ' "
 /@02 " '8610' = 'YUMA FI VETRNRV FAC ' "
 /@02 " '8611' = 'WEST COAST VETRNRV FAC ' "
 /@02 " '8612' = 'LONG BEACH VETRNRV FAC ' "
 /@02 " '8613' = 'CAMP PENDLETON VETRNRV ' "
 /@02 " '8614' = 'EL TORO FI VETRNRV FAC ' "
 /@02 " '8615' = 'SAN ONOFRE FI VETRNRV FA' "
 /@02 " '8616' = 'PORT HUENEME VETRNRV FAC' "
 /@02 " '8617' = 'PNT MAGU FI VETRNRV FAC ' "
 /@02 " '8618' = 'VANDNBRG AFB VETRNRV FAC' "
 /@02 " '8619' = 'MOJAVE VETRNRV FAC ' "
 /@02 " '8620' = 'FT IRWIN VETRNRV FAC ' "
 /@02 " '8621' = 'BARSTOW FI VETRNRV FAC ' "
 /@02 " '8622' = 'EDWARDS AFB VETRNRV FAC ' "
 /@02 " '8623' = 'CHINA LAKE VETRNRV FAC ' "
 /@02 " '8624' = '29 PALMS VETRNRV FAC ' "
 /@02 " '8625' = 'NELLIS AFB VETRNRV FAC ' "
 /@02 " '8626' = 'PACIFIC REGIONAL VET CMD' "
 /@02 " '8627' = 'CENPAC DISTRICT VET CMD ' "
 /@02 " '8628' = 'FT SHAFTER VETRNRV FAC ' "
 /@02 " '8629' = 'KANEHOE MCBH VETRNRV FAC' "
 /@02 " '8630' = 'HICKAM AFB VETRNRV FAC ' "
 /@02 " '8631' = 'PEARL HARBOR COMSRY VET ' "
 /@02 " '8632' = 'HILO FI VETRNRV FAC ' "
 /@02 " '8633' = 'SCHOFIELD BRCKS VETRNRV ' "
 /@02 " '8634' = 'BARBERS PNT VETRNRV FAC ' "
 /@02 " '8635' = 'WESPAC DISTRICT VET CMD ' "
 /@02 " '8636' = 'GUAM NAVAL SUPP VET FAC ' "
 /@02 " '8637' = 'SPICA SHIPRIDER VET FAC ' "
 /@02 " '8638' = 'SAN JOSE SHIPRIDER VET ' "
 /@02 " '8639' = 'NIAGRA FALLS SHIPRIDR VE' "

/@02 " '8640' = 'OROTE COMMISSARY VET FAC' " "
 /@02 " '8641' = 'BOLLER VETRNRV FAC' " "
 /@02 " '8642' = 'ANDERSON AFB VETRNRV FAC' " "
 /@02 " '8643' = 'SINGAPORE VETRNRV FAC' " "
 /@02 " '8644' = 'NEW ZEALAND VETRNRV FAC' " "
 /@02 " '8645' = 'JAPAN DISTRICT VET CMD' " "
 /@02 " '8646' = 'CAMP ZAMA VETRNRV FAC' " "
 /@02 " '8647' = 'SHA FI VETRNRV FAC' " "
 /@02 " '8648' = 'ANA FI VETRNRV FAC' " "
 /@02 " '8649' = 'SGD FI VETRNRV FAC' " "
 /@02 " '8650' = 'YKH FI VETRNRV FAC' " "
 /@02 " '8651' = 'YOKOTA AFB VETRNRV FAC' " "
 /@02 " '8652' = 'MISAWA AFB VETRNRV FAC' " "
 /@02 " '8653' = 'YOKOSUKA NB VETRNRV FAC' " "
 /@02 " '8654' = 'OKINAWA VETRNRV FAC' " "
 /@02 " '8655' = 'KADENA VETRNRV FAC' " "
 /@02 " '8656' = 'IWAKUNI MCAS VETRNRV FAC' " "
 /@02 " '8657' = 'SASEBO VETRNRV FAC' " "
 /@02 " '8658' = 'GREAT PLAINS REG VET CMD' " "
 /@02 " '8659' = 'SOUTH TEXAS DIST VET CMD' " "
 /@02 " '8660' = 'FT SAM HOUSTN VETRNRV FA' " "
 /@02 " '8661' = 'BROOKS AFB VETRNRV FAC' " "
 /@02 " '8662' = 'RANDOLPH AFB VETRNRV FAC' " "
 /@02 " '8663' = 'LACKLAND AFB VETRNRV FAC' " "
 /@02 " '8664' = 'LAUGHLIN AFB VETRNRV FAC' " "
 /@02 " '8665' = 'OPERATIONAL RATIONS VET' " "
 /@02 " '8666' = 'MCALLEN MRE VETRNRV FAC' " "
 /@02 " '8667' = 'EVANSVILLE MRE VETRNRV' " "
 /@02 " '8668' = 'MULLINS MRE VETRNRV FAC' " "
 /@02 " '8669' = 'CORPUS CHRISTI VETRNRV' " "
 /@02 " '8670' = 'KINGSVILLE FI VETRNRV' " "
 /@02 " '8671' = 'INGLESIDE SUPPLY PNT VET' " "
 /@02 " '8672' = 'DOD VETRNRV FAC' " "
 /@02 " '8673' = 'DOD MILITARY WORKING DOG' " "
 /@02 " '8674' = 'SOUTH PLAINS DIST VETCMD' " "
 /@02 " '8675' = 'FORT HOOD VETRNRV FAC' " "
 /@02 " '8676' = 'DYESS AFB VETRNRV FAC' " "
 /@02 " '8677' = 'FORT WORTH NAS VETRNRV' " "
 /@02 " '8678' = 'LOUISIANA VETRNRV FAC' " "
 /@02 " '8679' = 'NEW ORLEANS FI VETRNRV' " "
 /@02 " '8680' = 'ALGIERS NSA FI VETRNRV' " "
 /@02 " '8681' = 'BARKSDALE VETRNRV FAC' " "
 /@02 " '8682' = 'OKLAHOMA VETRNRV FAC' " "
 /@02 " '8683' = 'SHEPPARD AFB VETRNRV FAC' " "
 /@02 " '8684' = 'TINKER AFB VETRNRV FAC' " "
 /@02 " '8685' = 'PANAMA DISTRICT VET CMD' " "
 /@02 " '8686' = 'COROZAL VETRNRV FAC' " "
 /@02 " '8687' = 'ROCKY MOUNTN DIST VETCMD' " "
 /@02 " '8688' = 'DENVER VETRNRV FAC' " "
 /@02 " '8689' = 'HILL AFB VETRNRV FAC' " "
 /@02 " '8690' = 'DUGWAY PROVING GRND VET' " "
 /@02 " '8691' = 'GRANDS FRKS AFB VETRNRV' " "
 /@02 " '8692' = 'MINOT AFB VETRNRV FAC' " "
 /@02 " '8693' = 'FT CARSON VETRNRV FAC' " "
 /@02 " '8694' = 'AIR FORCE ACAD VETRNRV' " "
 /@02 " '8695' = 'ELLSWORTH AFB VETRNRV' " "
 /@02 " '8696' = 'MALMSTROM AFB VETRNRV' " "
 /@02 " '8697' = 'FORT BLISS VETRNRV FAC' " "

/@02 " '8698' = 'WHITE SANDS VETRNRY FAC ' "
 /@02 " '8699' = 'HOLLOMAN AFB VETRNRY FAC' "
 /@02 " '8700' = 'KIRTLAND AFB VETRNRY FAC' "
 /@02 " '8701' = 'CANNON AFB VETRNRY FAC ' "
 /@02 " '8702' = 'FT HUACHUCA VETRNRY FAC ' "
 /@02 " '8703' = 'LUKE AFB VETRNRY FAC ' "
 /@02 " '8704' = 'DAVIS MONTHN AFB VETRNRY' "
 /@02 " '8705' = 'NORTH PLAINS DIST VET CM' "
 /@02 " '8706' = 'FORT LEAVENWORTH VETRNRY' "
 /@02 " '8707' = 'OFFUTT AFB VETRNRY FAC ' "
 /@02 " '8708' = 'KANSAS CITY SPLY PNT VET' "
 /@02 " '8709' = 'WHITEMAN AFB VETRNRY FAC' "
 /@02 " '8710' = 'FT LEONARD WOOD VETRNRY ' "
 /@02 " '8711' = 'FORT RILEY VETRNRY FAC ' "
 /@02 " '8712' = 'MCCONNELL AFB VETRNRY ' "
 /@02 " '8713' = 'SOUTH EAST REGIONAL VET ' "
 /@02 " '8714' = 'TV DISTRICT VET CMD ' "
 /@02 " '8715' = 'FORT CAMPBELL VETRNRY ' "
 /@02 " '8716' = 'NASHVILLE SUPPLY PNT VET' "
 /@02 " '8717' = 'MILLINGTON VETRNRY FAC ' "
 /@02 " '8718' = 'LITTLE ROCK VETRNRY FAC ' "
 /@02 " '8719' = 'REDSTONE VETRNRY FAC ' "
 /@02 " '8720' = 'COLUMBUS VETRNRY FAC ' "
 /@02 " '8721' = 'GC DISTRICT VET CMD ' "
 /@02 " '8722' = 'FORT RUCKER VETRNRY FAC ' "
 /@02 " '8723' = 'MERIDAN FI VETRNRY FAC ' "
 /@02 " '8724' = 'PENSACOLA VETRNRY FAC ' "
 /@02 " '8725' = 'WHITING FIELD FI VETRNRY' "
 /@02 " '8726' = 'KEESLER AFB VETRNRY FAC ' "
 /@02 " '8727' = 'ELGIN AFB VETRNRY FAC ' "
 /@02 " '8728' = 'TYNDALL AFB VETRNRY FAC ' "
 /@02 " '8729' = 'FORT MCCLELLAN VETRNRY ' "
 /@02 " '8730' = 'BIRMINGHAM SPLY PNT VET ' "
 /@02 " '8731' = 'FORT BENNING VETRNRY FAC' "
 /@02 " '8732' = 'MAXWELL AFB VETRNRY FAC ' "
 /@02 " '8733' = 'ALBANY FI VETRNRY FAC ' "
 /@02 " '8734' = 'SR DISTRICTVET CMD ' "
 /@02 " '8735' = 'FORT JACKSON VETRNRY FAC' "
 /@02 " '8736' = 'CHARLESTON AFB VETRNRY ' "
 /@02 " '8737' = 'SHAW AFB VETRNRY FAC ' "
 /@02 " '8738' = 'FORT GORDON VETRNRY FAC ' "
 /@02 " '8739' = 'ROBINS AFB VETRNRY FAC ' "
 /@02 " '8740' = 'ATLANTA VETRNRY FAC ' "
 /@02 " '8741' = 'SA DISTRICT VET CMD ' "
 /@02 " '8742' = 'FT STEWART VETRNRY FAC ' "
 /@02 " '8743' = 'PARRIS ISLAND VETRNRY ' "
 /@02 " '8744' = 'HUNTER VETRNRY FAC ' "
 /@02 " '8745' = 'JACKSONVILLE VETRNRY FAC' "
 /@02 " '8746' = 'MAYPORT FI VETRNRY FAC ' "
 /@02 " '8747' = 'CECIL FIELD FI VETRNRY ' "
 /@02 " '8748' = 'KINGS BAY FI VETRNRY FAC' "
 /@02 " '8749' = 'MACDILL AFB VETRNRY FAC ' "
 /@02 " '8750' = 'PATRICK VETRNRY FAC ' "
 /@02 " '8751' = 'ORLANDO VETRNRY FAC ' "
 /@02 " '8752' = 'KEY WEST FI VETRNRY FAC ' "
 /@02 " '8753' = 'ROOSEVELT ROADS VETRNRY ' "
 /@02 " '8754' = 'BUCHANAN VETRNRY FAC ' "
 /@02 " '8900' = 'USMTM DISP, SAUDI ARABIA' "

/@02 " '8902' = '35 MED GP/SGD - MISAWA ' "
 /@02 " '8903' = 'USAHC CAMP HUMPHREYS ' "
 /@02 " '8904' = '2ND INF DIV, KOREA ' "
 /@02 " '8905' = '4 USA MSL COMD, KOREA ' "
 /@02 " '8906' = '38 ADA BD, KOREA ' "
 /@02 " '8907' = 'USAHC, CAMP WALKER ' "
 /@02 " '8908' = 'USAHC CAMP CARROLL ' "
 /@02 " '8909' = '543 GEN DISP CMP LIBBY,K' "
 /@02 " '8910' = 'USAHC, CAMP HIALEAGH ' "
 /@02 " '8911' = '560 AID STA CMP HOWARD,K' "
 /@02 " '8912' = 'USAHC, CAMP RED CLOUD ' "
 /@02 " '8913' = 'USAHC, CAMP CARROLL ' "
 /@02 " '8914' = '430 SURG ANX CMP AMES, K' "
 /@02 " '8915' = 'BN AID STA CAMP MERCER,K' "
 /@02 " '8916' = 'USAHC, YONGSAN ' "
 /@02 " '8917' = 'USAHC, CAMP LONG ' "
 /@02 " '8918' = 'USAHC CAMP MARKET ' "
 /@02 " '8919' = 'K- 16 AID STA YONGSAN, K' "
 /@02 " '8920' = 'AID STATION, CMP COLBURN' "
 /@02 " '8921' = 'USAHC, CAMP PAGE ' "
 /@02 " '8922' = 'USA RYUKYUS ISL, OKINAWA' "
 /@02 " '8923' = 'MEDDAC BANGKOK, THAILAND' "
 /@02 " '8924' = 'AHC FT BUCHANAN ' "
 /@02 " '8925' = 'BRMCL LEEWARD POINT ' "
 /@02 " '8926' = 'BRMCL ARGENTIA ' "
 /@02 " '8927' = 'BRMCL AMMUNTN SUP VIEGUS' "
 /@02 " '8928' = 'BRMCL NAVCOMMSTA THURSO ' "
 /@02 " '8929' = 'BRMCL NAVSUPPCT HOLYLOCH' "
 /@02 " '8930' = 'BRMCL NAVSECGRUACT EDZLL' "
 /@02 " '8931' = 'NMCL LONDON ' "
 /@02 " '8932' = 'MDCL SPRTDET MCMURDO STA' "
 /@02 " '8933' = 'MDCL COMSTA EXMOUTH ' "
 /@02 " '8934' = 'MDCL NSF DIEGO GARCIA ' "
 /@02 " '8935' = 'BRCL NAF KADENA ' "
 /@02 " '8937' = 'BRMCL NSGA HANZA/TORII ' "
 /@02 " '8938' = 'BRMCL YOKOHOMA ' "
 /@02 " '8939' = 'BRMCL CHINHEA ' "
 /@02 " '8940' = 'BRDCL BERMUDA ' "
 /@02 " '8941' = 'BRDCL COMNAV GUANTANAMO ' "
 /@02 " '8942' = 'BRDCL NAVCOMM NEA MAKRI ' "
 /@02 " '8943' = 'BRDCL NAS SIGONELLA ' "
 /@02 " '8944' = 'BRDCL NAVSUPP NAPLES DET' "
 /@02 " '8945' = 'BRDCL NAVSUPP LA MADDALE' "
 /@02 " '8946' = 'BRDCL NAVSECGRUACT SABAN' "
 /@02 " '8947' = 'BRDCL NAVACT HOLY LOCH ' "
 /@02 " '8948' = 'BRDCL NAVSECGRUACT EDZLL' "
 /@02 " '8949' = 'BRDCL NAVSTA ROTA ' "
 /@02 " '8950' = 'BRDCL NAVFAC BRAWDY ' "
 /@02 " '8951' = 'DCL ANNEX GROUP OKINAWA ' "
 /@02 " '8952' = 'BRDCL MCAS IWAKUNI ' "
 /@02 " '8953' = 'BRDCL NAF ATSUGI ' "
 /@02 " '8954' = 'BRDCL COMFLEACT SASEBO ' "
 /@02 " '8955' = 'DCL ANX GRP YOKOSUKA, JA' "
 /@02 " '8956' = 'BRDCL NAS AGANA GUAM ' "
 /@02 " '8957' = 'BRDCL NAVCAMS PAC GUAM ' "
 /@02 " '8958' = 'BRDCL NAF MIDWAY ISLAND ' "
 /@02 " '8959' = 'BRDCL NAS CUBI POINT ' "
 /@02 " '8960' = 'BRDCL NCS SAN MIGUEL ' "

```

/@02 "      '8961' = '86 DNTL SQ/CC - RAMSTEIN'  "
/@02 "      '8962' = '65 MED OPS SQ/SGOD-LAJES'  "
/@02 "      '8963' = 'OL-A 52DNTL SQ/SGD-BITBG'  "
/@02 "      '8964' = 'USAF DNTL CLN HAHN          '  "
/@02 "      '8965' = 'USAF DNTL CLN WIESBADEN    '  "
/@02 "      '8966' = 'USAF DNTL CLN HELLENIKON'   "
/@02 "      '8967' = '31 MDOS/SGOD - AVIANO     '  "
/@02 "      '8968' = 'USAF DC CMP NEW AMSTERDM'   "
/@02 "      '8969' = 'USAF DNTL CLN ANKARA       '  "
/@02 "      '8970' = '48 DNTL SQ/CC-LAKENHEATH'   "
/@02 "      '8971' = 'USAF DNTL CLN CHICKSANDS'   "
/@02 "      '8972' = '35 MED GP/SGD - MISAWA     '  "
/@02 "      '8973' = '374 MED GP/SGD - YOKOTA    '  "
/@02 "      '8974' = '51 MED GP/SGD - OSAN       '  "
/@02 "      '8975' = '18 MED GP/SGD - KADENA     '  "
/@02 "      '8976' = '13th MED CENTER/SGD       '  "
/@02 "      '8977' = 'AHC BRUSSELS              '  "
/@02 "      '8978' = 'USAHC BERCHTESGADEN       '  "
/@02 "      '8979' = 'AHC MUNICH                '  "
/@02 "      '8980' = '12th GEN DISP-GARMISCH     '  "
/@02 "      '8981' = '22nd MED DET-NEU ULM      '  "
/@02 "      '8982' = 'AHC BAD AIBLING           '  "
/@02 "      '8983' = '5th GEN DISP-BAD TOELZ    '  "
/@02 "      '8984' = '18th MED DET-SCHWAEBISCH'   "
/@02 "      '8985' = '191st MED DET-DUPID 1144'   "
/@02 "      '8986' = '574th MED DET-BAD CANNST'   "
/@02 "      '8987' = 'AHC PATCH BKS            '  "
/@02 "      '8988' = '757th MED DET-SCHWAEBSCH'   "
/@02 "      '8989' = '762nd MED DET-GOEPFINGEN'   "
/@02 "      '8990' = '9th MED DET-HEILBRONN     '  "
/@02 "      '8991' = '118th MED DET-BAD HRSFLD'   "
/@02 "      '8992' = 'AHC DEXHEIM              '  "
/@02 "      '8993' = '17th MED DET-GELNHAUSEN    '  "
/@02 "      '8994' = '20th MED DET-FULDA        '  "
/@02 "      '8995' = 'AHC HANAU                '  "
/@02 "      '8996' = 'AHC BUTZBACH             '  "
/@02 "      '8997' = '279th STA HOSP-MAINZ      '  "
/@02 "      '8998' = 'AHC DARMSTADT            '  "
/@02 "      '8999' = '733rd MED DET-BUTZBACH    '  "
/@02 "      '9998' = '9998                    '  "
/@02 "      '9999' = '9999                    '  "
/@02 "      ;                                "
;
run;
/*****
/* Step 28.                                     */
/* Create range formats for GRID61 and GRID87 (1999 data) */
*****/
data _null_;
file src lrecl=90 mod;
put /@02 ' VALUE GRID' /*GRID61*/
    /@02 '      . = "Missing/Unknown"'
    /@02 ' 1-9999 = "1 -- 9999"'
    /@02 ' ; '
;
put /@02 ' VALUE GRIDQ' /*GRID87*/
    /@02 '      . = "Missing/Unknown"'
    /@02 '      0 = "Did not miss any days"'

```

```
    /@02 ' 1-99 = "1 -- 99" '
    /@02 ' 100-299 = "100 -- 299" '
    /@02 ' ; '
    /@02 'RUN;'
;
run;

*****
* Run the format program EXTRAFMT.SAS
*****;
%include "&QTR.PROGRAMS\codebook_child\DATA\EXTRAFMT\EXTRAFMT.SAS";
run;
-
```

```

*=====;
*
* Programmer: Mark A. Brinkley
* Title: QC_child.SAS
* Client: 8687-100
* Date: 03-29-2000
*
* Purpose: This program is designed to read in ALL adult html
* files, extract the table data, and then compare
* this data to the input data which was used to
* create the html report cards. If everything is OK,
* then the comparison should yield no differences.
*
* Input files: 1) All F*.HTM files
* 2) TREND_C.SD2
*
* Modifications:
* 1) 02/14/2001 - Keith Rathbun, Remove outputting of permanent
* SAS Dataset. Deleted directory output file. Removed white
* space from program. Removed BY statement from proc compares.
* Added titles. Setup to run in LOADWEB directory on Jdrive.
*
* 2) 04/18/2001 - Chris Rankin -- added Macro to process
* frames and non-frames version separately
*
* 3) 11/27/2001 - Daniele Beahm -- revised code to check child
* html files
* Output files: Comparison summary listing
*
*=====;
LIBNAME IN ".";
OPTIONS NOCENTER LS=132 PS=79 COMPRESS=NO;

*****;
***** Run batch command to create dir of all F*.HTM files *****;
*****;
OPTIONS NOXWAIT;

%MACRO COMPARE(INCOND=,TITLE=);

X "DIR HTMC\&INCOND..HTM /B > HTMC\QC_CHILD.DAT";
X "CD HTMC";

*****;
***** Read in QC_CHILD which was just created *****;
*****;

DATA QC_CHILD;
  INFILE "QC_CHILD.DAT" LRECL=15 PAD;
  INPUT HTMLFILE $ 1-15;
RUN;

*****;
***** Read in all F*.HTM files *****;
*****;

DATA HTMLS;
  SET QC_CHILD;

```

```

INFILE FILEREF FILEVAR=HTMLFILE  LRECL=175 PAD END=DONE;
DO UNTIL(DONE);
    INPUT TEMPVAR $ 1-175;
    OUTPUT;
END;
RUN;

DATA TEMP;
SET HTMLS;
LENGTH ORDER 5;
IF INDEX(TEMPVAR,"CODE")>0;
PLACEI=INDEX(TEMPVAR,"CODE");
ORDER=SUBSTR(TEMPVAR,PLACEI+5,5);
RUN;

DATA TESTFILE(DROP=PLACE PLACE2 PLACE3 SRCH PLACEI LNGTH TEMPVAR COLOR SCORE);
SET TEMP;
LENGTH COLOR $6;
LENGTH SCORE_ 3;
LENGTH SCORE $4;
LENGTH SIG_ 3;
IF INDEX(TEMPVAR,"color")>0 THEN DO;
    PLACE=INDEX(TEMPVAR,"color");
    COLOR=SUBSTR(TEMPVAR,PLACE+8,6);
    SRCH=SUBSTR(TEMPVAR,PLACE,30);
    IF INDEX(SRCH,">")>0 AND INDEX(SRCH,"<")>0 THEN DO;
        PLACE2=INDEX(SRCH,">");
        PLACE3=INDEX(SRCH,"<");
        LNGTH=PLACE3-PLACE2-1;
        SCORE=SUBSTR(SRCH,PLACE2+1,LNGTH);
    END;
END;
ELSE DO;
    PLACE=INDEX(TEMPVAR,"CODE");
    SCORE=SUBSTR(TEMPVAR,PLACE-5,3);
    COLOR='.';
END;
IF COLOR='663300' THEN SIG_=.;
ELSE IF COLOR='cc0000' THEN SIG_=-1;
ELSE IF COLOR='009933' THEN SIG_=1;
ELSE IF COLOR='.' THEN SIG_=0;
IF SCORE='***' THEN SCORE_=.;
ELSE IF SCORE='>*' THEN SCORE_=.;
ELSE IF SCORE='**' THEN SCORE_=.;
ELSE IF SCORE='NA' THEN SCORE_=A;
ELSE IF SCORE='>NP' THEN SCORE_=P;
ELSE SCORE_=SCORE;
RUN;

PROC SORT DATA=TESTFILE;
BY ORDER;
RUN;

DATA TESTFILE;
SET TESTFILE;
BY ORDER;
IF FIRST.ORDER;

```

```

RUN;

DATA MERGED(KEEP=ORDER SIG SIG_ SCORE SCORE_ SCORE1 BENEFIT BENTYPE ROWCAT);
  MERGE TESTFILE(IN=IN1)
    IN.TREND_C;
  BY ORDER;
  IF IN1;
  LENGTH SCORE1 3;
  SCORE1=ROUND(SCORE);
  IF (SIG=. AND SIG_=0) THEN SIG_=.;
  ELSE IF (SIG=0 AND SIG_=.) THEN SIG_=0;
  IF (SCORE1=. AND (SCORE_=.A OR SCORE_=.P)) THEN SCORE_=.;

```

```

RUN;
*=====;
* Programmer: Mark A. Brinkley ;
* ;
* Title: MAKEHTMC.SAS ;
* Client: 8860-410 ;
* Date: 05-03-2000 ;
* Modified: 10/08/2001 C. Rankin -- changed for 2000 ;
* 11/20/2001 D. Beahm -- Added Trend pages and Code to ;
* output excel files ;
* 11/15/2002 M. Scott -- Updated for Q3 2002. ;
* 11/27/2002 K. Rathbun -- More Updates for Q3 2002. ;
* 12/05/2002 M. Scott -- Updated colmns and xlscols ;
* numbers for Q3 2002. ;
* 12/06/2002 M. Scott -- Added code to set COLUMNS, ;
* D. Beahm SPAN1, and SPAN2 for component ;
* pages of Claims Processing and ;
* Courteous and Helpful Office ;
* Staff. ;
* 12/07/2002 M. Scott -- Added code to print NA and *** ;
* for extra column in Q3 2002. ;
* 12/09/2002 M. Scott -- Changed *** to NA for all ;
* Trend columns (except Getting ;
* Care Quickly) ;
* ;
* Purpose: This program is to create ;
* report cards for the 2000 DOD project (CHILD) ;
* ;
* Input files: TREND_C.SD2 ;
* ;
* Output files: DATA\ ;
* ;
*=====;

```

```

OPTIONS MLOGIC MPRINT;

%LET HTMLSP=%NRSTR(&nbsp;);          /**changes STR to NRSTR so SAS would
recognize &*/
%LET QUOTE=%STR("");
%LET OUTXLS=1;                    /** 1=Make XLS file/0=Don't   Added 10-24 CR
**/
%LET fontface=%STR(Arial,Helvetica,Swiss,Geneva);
%LET hdcolr=%STR('white');
%LET BLUE=%STR('#663300');        /**BLUE is ACTUALLY THE DARK RED USED FOR
BENCHMARKS**/
%LET GREEN=%STR('#009933');

```

```

%LET RED=%STR('#cc0000');
%LET GRAY=%STR('white');
%LET COMMA=%STR(',');
%LET LOGO=%STR('child_side.gif');
%LET HELP_BUTTON=%STR('help75.gif');
%LET HOME_BUTTON=%STR('home75.gif');
%LET BACK_BUTTON=%STR('back75.gif');

LIBNAME SRC1 '.' ACCESS=READONLY;
OPTIONS LS=132;
OPTIONS NOXWAIT;

*****;
****   Macro to create html pages                               ****;
****       var1=major group                                     ****;
****       var2=0                                              ****;
****       var3=benefit                                        ****;
****       seppage=separate page for trend data              ****;
****       0=no separate page                                 ****;
****       1=1st separate page                               ****;
****       2=2nd separate page                               ****;
*****;

/** C. Rankin -- added variable for separate page, similar to adult **/
/**       consumer reports                                     **/

%MACRO MKHTML(var1,var2,var3,seppage);

/** Load in data **/

DATA SUBSET;
  SET SRC1.trend_c;
  LENGTH MAJGRPA $ 48;

  IF MAJGRP="Children in Mature Regions (6, 9-12, & 16)" THEN
    MAJGRPA="Children in Mature Regions (6, 9-12, & Alaska)";
  ELSE IF MAJGRP="All Children" THEN MAJGRPA="Children in CONUS MHS";
  ELSE MAJGRPA=MAJGRP;
  IF ROWCAT="CONUS MHS" THEN ROWCAT="All Children";
  IF BENEFIT="Speciality Care" THEN BENEFIT="Specialty Care"; *****DKB ADDED
Because SPECIALTY SPELLED INCORRECTLY IN TREND_C FILE*****;
  IF BENTYPE="Had a 'Big Problem' Getting to See PCM" THEN BENTYPE="Not a
Problem Getting to See PCM"; *****DKB Because Column Header Wrong*****;
  IF -.5<SCORE <.5 and SCORE NOT IN (.P, .A, .) THEN SCORE=0; *****DKB ADDED
TO GET RID OF -0 VALUES*****;

  /** VAR1 indicated major group ***/
  %if &var1.=1 %then %let major=%STR(Children in CONUS MHS);
  %if &var1.=2 %then %let major=%STR(Children in New Regions (1, 2, & 5));
  %if &var1.=3 %then %let major=%STR(Children in Mature Regions (6, 9-12, &
Alaska));
  %if &var1.=4 %then %let major=%STR(Children in Other Regions (3, 4, & 7/8));

  IF MAJGRPA="&major."; /** Subset data by major group ***/
  /** Added C. Rankin 10/24/2001 (from makehtmqs.sas)*/
  /** Create macro variables to refer to Component or Trend pages ***/
  /** SEPPAGE=0 indicates Component page***/

```

```

%if &seppage.=0 %then %do;
  %let q=;
  %let unq=;
  %let click_alt=Click for Component data;
  %let click_image=component.gif;
%end;

/****else if not a component then must be a trend page and file name will end
in q****/
%else %do;
  %let q=q;
  %let unq=q;
  %let click_alt=Click for Trend data;
  %let click_image=trend.gif;
%end;

/***** CREATE FILE NAME *****/

FILEOUT1=COMPRESS("htmc\c&var1.-&var2.-&var3.&q..htm");

/**** Added 10-24-2001 CR If creating Excel then don't create HTML ****/

%if &outxls.=1 %then %let fileout1= NUL;

%else %do;
  call symput('fileout1',FILEOUT1);

%end;

/*-----*/
/* 2000/11: begin xls code */
/*-----*/

FILEOUTX=COMPRESS("htmc\c&var1.-&var2.-&var3..xls"); /* create run-
specific xls file */
CALL SYMPUT('fileoutX',FILEOUTX); /* via
global macro vars */

TEMPLATE=COMPRESS("Templates_c\Template&var3..xls");
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 %let headvar=BENTYPE;

/**** Link to XLS file ****/
HREFXLS=COMPRESS("c&var1.-&var2.-&var3..xls");
call symput('hrefxls',HREFXLS);

```


RUN;

```
/** Subset data by Benefit */
/** columns and colmns used to determine how many rows in html files*/
/** xlscols used to determine how many rows to use in EXCEL file. The EXCEL
FILES INCLUDE BOTH THE TREND AND THE SUB BENEFIT PAGES IN ONE SHEET SO
THE NUMBER OF COLUMNS NEEDED IN THE EXCEL FILE IS DIFFERENT THAN IN THE
HTML FILE */
```

```
DATA SUBSET;
SET SUBSET;
```

```
%if &var3.=0 %then %do;
    IF BENTYPE ="2002";
    %let columns=11;
    %let colmns=12;
    %let xlscols=13;
%end;
%else %if &var3.=1 %then %do;
    IF BENEFIT="Getting Needed Care";
    %let columns=4;
    %let colmns=5;
    %let xlscols=9;
%end;
%else %if &var3.=2 %then %do;          *** MJS 12/5/02 - Changed colmns and
xlscols numbers ;
    IF BENEFIT="Getting Care Quickly"; *** (until"RUN") for extra column in
Q3 2002. ;
    %let columns=4;
    %let colmns=5;
    %let xlscols=9;
%end;
%else %if &var3.=3 %then %do;
    IF BENEFIT="How Well Doctors Communicate";
    %let columns=5;
    %let colmns=6;
    %let xlscols=10;
%end;
%else %if &var3.=4 %then %do;
    IF BENEFIT="Claims Processing";
    %let columns=2;
    %let colmns=5;
    %let xlscols=7;
%end;
%else %if &var3.=5 %then %do;
    IF BENEFIT="Courteous and Helpful Office Staff";
    %let columns=2;
    %let colmns=5;
    %let xlscols=7;
%end;
%else %if &var3.=6 %then %do;
    IF BENEFIT="Customer Service";
    %let columns=3;
    %let colmns=5;
    %let xlscols=8;
%end;
```

```

%else %if &var3.=7 %then %do;
  IF BENEFIT="Personal Doctor or Nurse";
  %let columns=3;
  %let colmns=5;
  %let xlscols=5;
%end;
%else %if &var3.=8 %then %do;
  IF BENEFIT="Health Care";
  %let columns=3;
  %let colmns=5;
  %let xlscols=5;
%end;
%else %if &var3.=9 %then %do;
  IF BENEFIT="Specialty Care";
  %let columns=3;
  %let colmns=5;
  %let xlscols=5;
%end;
%else %if &var3.=10 %then %do;
  IF BENEFIT="Health Plan";
  %let columns=3;
  %let colmns=5;
  %let xlscols=5;
%end;
%else %if &var3.=11 %then %do;
  IF BENEFIT="Primary Care Manager";
  %let columns=3;
  %let colmns=5;
  %let xlscols=8;
%end;

%else %if &seppage. = 2 %then %do;
  %let columns=3;
  %let colmns=4;
  %let xlscols=8;
%end;

*** Set sub_ben variable to appear in title ***;
%if &var3.=0 %then %do;
  %let sub_ben=%STR(2002 Composite Scores);
%end;
%else %do;
  call symput('sub_ben',BENEFIT);
%end;

RUN;

*****;
**** Put out 1st rows of table ****;
*****;

DATA HTML;
  SET SUBSET;

  IF ROWCAT IN ("All Children");
  HREFTOP=COMPRESS("c&var1.-0-0.htm");
  /*** Create macro variable date with today's date ***/

```

```

DATETIME=DATETIME();
CALL SYMPUT ('DATETIME',left(put(datetime,datetime20.)));
DROP DATETIME;

RUN;

/**** Initialize HTML page ****/

DATA _NULL_;
  FILE "&FILEOUT1.";

  PUT "<! Created &datetime.>";
  PUT "<html><head><title>";
  PUT "&major., &sub_ben.";
  PUT "</title></head>";
  PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066'
vlink='#996699'>";

RUN;

/*-----*/
/* 2000/11: begin xls code */
/* determine rows and columns */
/* to be filled in */
/*-----*/
%if &outxls.=1 %then %do;
  X "COPY &template. &fileoutX."; /* copy
template xls to run-specific xls file */
  X "START &fileoutX."; /* open run-
specific xls file */
  FILENAME XLSTITLE DDE "excel|Sheet1!R1C1:R2C&xlscols." NOTAB; /* xls
rows 1 & 2 (titles) */
  FILENAME XLSDATA DDE "excel|Sheet1!R6C1:R15C&xlscols." NOTAB; /* xls
rows 6+ (Age Group/Enrollment Groups) */
  FILENAME XLSDATA1 DDE "excel|Sheet1!R6C2:R15C&xlscols." NOTAB; /* xls
rows 6+ (scores) */
  FILENAME XLSDATA2 DDE "excel|Sheet1!R17C1:R100C&xlscols." NOTAB; /* xls
rows 6+ (footnotes) */

%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

/**** If ALL benefits then do special column headers ****/

%if &var3.=0 %then %do;

DATA _NULL_;
  SET HTML END=EOF;
  FILE "&FILEOUT1." MOD;

  IF _N_=1 THEN DO;
    /** MF Changes ROW 1 **/

```

```

    PUT "<center><table border='1' cellpadding='2' cellspacing='0'
bgcolor='#D8D8D8'
        cols=13 width='90%'>";
    PUT "<tr bgcolor='white'>";
    PUT "    <td colspan='6' valign='top' bgcolor='#999999'><img border='0'
height='25'
        width='242' src=&logo.></td>";
    PUT "    <td colspan='7' align='right' valign='bottom'
bgcolor='#999999'>";
    PUT "        <div align='right'>";
    PUT "        <a href='index.htm'><img src=&home_button. border='0'
alt='Return to
        Main Page'></a>&htmlsp. &htmlsp.";
    PUT "        <a href="" HREFTOP +(-1) ""><img src=&back_button.
border='0'
        alt='Return to Top Level'></a>&htmlsp. &htmlsp.";
    PUT "        <a href='help.htm'><img src=&help_button. border='0'
alt='Help'></a></div>";
    PUT "    </td>";
    PUT "</tr>";

    /** MF Changes ROW 2 **/
    PUT "<tr>";
    PUT "        <td colspan='13' bgcolor='#D8D8D8'>";
    PUT "            <center>";
    PUT "                <h2><font face='&fontface.'
color='#3333cc'>&major.<br>";
    PUT "                    &sub_ben.</font></h2>";
    PUT "                </center>";
    PUT "            </td>";
    PUT "</tr>";

    PUT "<tr bgcolor= &hdcolr.>";
    PUT "<td>&htmlsp.</td>";
    PUT "<td ALIGN=CENTER colspan=2><font face='Arial' size=-1><b>Ease of
Access</b>
        </font></td>";
    PUT "<td ALIGN=CENTER colspan=4><font face='Arial' size=-
1><b>Communication and
        Customer Service</b></font></td>";
    PUT "<td ALIGN=CENTER colspan=4><font face='Arial' size=-1><b>Parents'
Ratings</b></font>
        </td>";
    PUT "<td ALIGN=CENTER colspan=1><font face='Arial' size=-1><b>Primary
Care</b></font></td>";
    PUT "</tr>";
    PUT "<tr bgcolor= &hdcolr.>";

    /** Print out 1st column of 2nd row ***/
    %if &var2.=0 %then %do;
        PUT "<td width='7%'><font face='&fontface.'>&htmlsp.</font></td>";
    %end;

    bennum=1;

    /*-----*/
    /* 2000/11: begin xls code */
    /*output title for main page */

```

```

/*-----*/
%if &outxls.=1 %then %do;
  FILE XLSTITLE;
  PUT "&major.";
  PUT "%cmpres(&sub_ben.)";
%end;
/*-----*/
/* 2000/11: begin xls code */
/*-----*/

END;

/** Claims Processing Added 10/15/2001 C.Rankin **/

/** Put Benefits across columns **/

IF BENEFIT IN ("Getting Needed Care","Getting Care Quickly",
              "How Well Doctors Communicate",
              "Courteous and Helpful Office Staff",
              "Claims Processing","Customer Service",
              "Primary Care Manager") THEN DO;
  IF BENEFIT = "Primary Care Manager" THEN BENNUM=11;
  HREF=COMPRESS("c&var1.-&var2.-"||bennum||".htm");
  PUT "<td width='7%' align='center' valign='bottom'><font
face='&fontface.'size='1'>
    <a href="" HREF +(-1) "">" &HEADVAR. "</a></font></td>";
  bennum+1;
END;
ELSE DO;
  HREF=COMPRESS("help.htm#q&var3.");
  PUT "<td width='7%' align='center' valign='bottom'><font
face='&fontface.'size='1'>
    <a href="" HREF +(-1) "">" &HEADVAR. "</a></font></td>";
END;

IF EOF THEN PUT "</tr>";

RUN;

DATA _NULL_;
SET HTML END=EOF;
*FILE "&FILEOUT1." MOD;
LENGTH HREFQ LMAJGRP $ 31;
RETAIN LMAJGRP;

IF _N_=1 THEN DO;
  LMAJGRP=" ";
  ROW=0;

```

```

*****;

```

```

/** Added 10/24/2001 C.Rankin -- from makehtmq.sas **/
**** Add TREND LINKS TO MAIN PAGE          **/

%let columns_less1=%EVAL(&columns.-1);

/**seppage=0 indicates that it is the main page ***/
/**The following code produces the necessary HTML to produce the pink
trend buttons
and also to create the links to the correct trend pages when you click
on the
buttons***/

%if &seppage.=0 %then %do;
    FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
    PUT "<tr bgcolor= &gray.><td><font face='&fontface.'
size='2'><b>Trends</b>
        </font></td>";

    %do i=1 %to 11;

        HREFQ=COMPRESS("c&var1.-&var2.-&i.q.htm");

        PUT "<td><a href='" HREFQ "'><CENTER><img src='trend_row.gif'
border=0>
            </CENTER></a></td>";
        %end;

        PUT "</tr>";
    %end;
END;

*****;

%end;

/** If Sub-benefit then do differently ***/
%else %do;

DATA _NULL_;
    SET HTML END=EOF;
    FILE "&FILEOUT1." MOD;

    *** MJS DKB 12/6/02 - Added code (IF to END, ELSE DO, and END below) to set
COLUMNS, SPAN1, ;
    *** and SPAN2 for component pages of Claims Processing and
Courteous and ;
    *** Helpful Office Staff for extra column in Q3 2002.
;

    IF &SEPPAGE.=0 AND &VAR3. IN (4,5) THEN DO;
        COLUMNS=4;
        SPAN1=2;
        SPAN2=2;
    END;
ELSE DO;

```

```

COLUMNS=&colmnns.;
SPAN1=ROUND(COLUMNS/2,1);
SPAN2=COLUMNS-SPAN1;
END;

IF _N_=1 then do;
  *** put table title ***;
  **PUT "<h2><center><font face='&fontface.'> &major. <br> &sub_ben.
</font></center></h2>";
  /** MF Changes ROW 1 **/
  PUT "<center><table border='1' cellpadding='2' cellspacing='0'
bgcolor='#D8D8D8'
      width='85%'>";
  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'>";
  IF &seppage.=0 and BENEFIT NOT IN ("Personal Doctor or Nurse","Health
Care","Specialty Care","Health Plan") then do;
    PUT "          <a href='c&var1.-&var2.-&var3.q.htm'><img
src='trend.gif' alt='Click for trend page' border=0></a>&htmlsp.";
    END;
  ELSE IF &seppage.ne 0 and BENEFIT NOT IN ("Personal Doctor or
Nurse","Health Care","Specialty Care","Health Plan") then do;
    PUT "          <a href='c&var1.-&var2.-&var3..htm'><img
src='component.gif' alt='Click for component page' border=0></a>&htmlsp.";
    END;

  PUT "          <a href='index.htm'><img src=&home_button. border='0'
alt='Return to Main
          Page'></a>&htmlsp. &htmlsp.";
  PUT "          <a href="" HREFTOP +(-1) ""><img src=&back_button.
border='0'
          alt='Return to Top Level'></a>&htmlsp. &htmlsp.";
  PUT "          <a href='help.htm'><img src=&help_button. border='0'
alt='Help'></a></div>";
  PUT "      </td>";
  PUT "</tr>";
  /** MF Changes ROW 2 **/
  PUT "<tr>";
  PUT "      <td colspan="" COLUMNS +(-1) "" bgcolor='#D8D8D8'>";
  PUT "          <center>";
  PUT "          <h2><font face='&fontface.' color='#3333cc'>&major.
<br>";
  PUT "          &sub_ben.</font></h2>";
  PUT "          </center>";
  PUT "      </td>";
  PUT "</tr>";

  PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
  PUT "<td width='10%'>&htmlsp.</td>";
END;

```

```

/****PRINT OUT HEADINGS FOR SUBSET PAGES WITH LINKS TO HELP PAGE****/

IF &HEADVAR not in ("2002", "2001", "2000", "Trend") and &seppage.=0 THEN DO;
***KRR added 2000 on 11/27/2002;
  HREF=COMPRESS("help.htm#q&var3");
  PUT "<td width='10%' align='center' valign='bottom'><font
face='&fontface.' size='2'>
  <a href="" HREF +(-1) ""><b>" &HEADVAR. "</b></a></font></td>";

END;

/****PRINT OUT HEADINGS FOR TREND PAGES WITH LINKS TO HELP PAGE****/
/****CODE BELOW PROVIDES LINKS APPROPRIATE HELP PAGES FOR PERSONAL DR (var3=7),
HEALTH CARE (var3=8), SPECIALTY CARE (var3=9), and HEALTH PLAN (var3=10)
BECAUSE THERE ARE TREND PAGES FOR THESE RATINGS EVEN THOUGH THERE ARE
NO SUBSET PAGES*****/

IF &HEADVAR in ("2002", "2001", "2000", "Trend") and &seppage.=2 and &var3
not in (7,8,9,10) THEN DO; ***KRR added 2000 on 11/27/2002;
  HREF=COMPRESS("help.htm#q&var3");
  PUT "<td width='10%' align='center' valign='bottom'><font
face='&fontface.' size='2'>
  <a href="" HREF +(-1) ""><b>" &HEADVAR. "</b></a></font></td>";
END;

ELSE IF &HEADVAR in ("2002", "2001", "2000", "Trend") and &seppage.=2 and
&var3 in (7,8,9,10) THEN DO; ***KRR added 2000 on 11/27/2002;
  HREF=COMPRESS("help.htm#q0");
  PUT "<td width='10%' align='center' valign='bottom'><font
face='&fontface.' size='2'>
  <a href="" HREF +(-1) ""><b>" &HEADVAR. "</b></a></font></td>";
END;

/** Scale Taken out 10/15/2001 C.Rankin **/

IF EOF THEN PUT "</font></tr>";

/*-----*/
/* 2000/11: begin xls code */
/* to output title */
/*-----*/
%if &outxls.=1 %then %do;
  FILE XLSTITLE;
  PUT "&major.";
  PUT "%cmpres(&sub_ben.)";
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

%end;

```



```
proc print data=html;
var bentype;
run;
```

```
*****;
**** Put out rest of table ****;
**** Colored scores and Stub ****;
*****;
```

```
DATA HTML;
SET SUBSET;
RUN;
```

```
***** All Regions ****;
%if &var2.=0 %then %do;
DATA HTML;
```

```
SET HTML END=EOF;
```

```
FILE "&FILEOUT1." MOD;
```

```
LENGTH LROWCAT $41;
RETAIN LROWCAT;
```

```
IF _N_=1 THEN DO;
LROWCAT=" ";
ROWNUM=1;
ROW=1;
END;
```

```
IF LROWCAT^=ROWCAT THEN DO;          *** Start new row ***;
ROW+1;
IF LROWCAT^=" " THEN PUT "</tr>"; *** terminate previous row ***;
IF ROWCAT="All Children" THEN PUT "<tr><td><b><font face='&fontface.'
size='2'>" ROWCAT "</font></b></td>";
ELSE IF ROWCAT="Under Age 6" THEN DO;
PUT "<tr bgcolor= &gray.><td width='90%' ALIGN=LEFT
colspan=&COLMNS><b><font face='&fontface.' size='2'>Age Group</font></b></td>";
PUT "<tr><td><b><font face='&fontface.' size='2'>" ROWCAT
"</font></b></td>";
END;
ELSE IF ROWCAT="Under Age 6-Benchmark" THEN
PUT "<tr><td><b><font color=&blue. face='&fontface.' size='2'>
&HTMLSP.&HTMLSP.Benchmark</font></b></td>";
ELSE IF ROWCAT="6-12 Years" THEN DO;
/* Added by N Justh 2/15/01 */
PUT "<tr><td width='90%' ALIGN=LEFT colspan=&COLMNS><b><font
face='&fontface.' size='2'></font></b></td>";
PUT "<tr><td><b><font face='&fontface.' size='2'>" ROWCAT
"</font></b></td>";
END;
ELSE IF ROWCAT="6-12 Years-Benchmark" THEN PUT "<tr><td><b><font
color=&blue. face='Arial' size=-1>&HTMLSP.&HTMLSP.Benchmark</font></b></td>";
ELSE IF ROWCAT="13-17 Years" THEN DO;
/* Added by N Justh 2/15/01 */
```

```

        PUT "<tr><td width='90%' ALIGN=LEFT colspan=&COLMNS><b><font
face='&fontface.' size='2'></font></b></td>";
        PUT "<tr><td><b><font face='&fontface.' size='2'>" ROWCAT
"<sup>*</sup></font> </b></td>";
        END;
        ELSE IF ROWCAT="Prime Enrollees" THEN DO;
        /* Added by N Justh 2/9/2001 */
        PUT "<tr><td><b><font color=&blue. face='Arial' size=-
1>&HTMLSP.&HTMLSP.Benchmark </font></b></td>";
        IF &SEPPAGE=0 THEN DO;
        DO I=1 TO &COLUMNS;
        PUT "<td align='center' valign='bottom'><b><font
face='Arial,Helvetica,Swiss,Geneva' color='#663300'
size='2'>NA<!CODE=00000></font></b></td>";
        END;
        END;
        ELSE IF &SEPPAGE=2 and BENEFIT NE "Getting Care Quickly" then DO; ***
MJS 12/7/02 - Changed 3 to 4 for extra column in Q3 2002. ;
        DO I=1 TO 4;
        PUT "<td align='center' valign='bottom'><b><font
face='Arial,Helvetica,Swiss,Geneva' color='#663300'
size='2'>NA<!CODE=00000></font></b></td>";
        END;
        END;
        ELSE IF &SEPPAGE=2 and BENEFIT = "Getting Care Quickly" then do;
        PUT "<td align='center' valign='bottom'><b><font
face='Arial,Helvetica,Swiss,Geneva' color='#663300'
size='2'>NA<!CODE=00000></font></b></td>";
        PUT "<td align='center' valign='bottom'><b><font
face='Arial,Helvetica,Swiss,Geneva' color='#663300'
size='2'>NA<!CODE=00000></font></b></td>";
        *** MJS 12/7/02 - Added line below for extra column in Q3 2002. ;
        PUT "<td align='center' valign='bottom'><b><font
face='Arial,Helvetica,Swiss,Geneva' color='#663300'
size='2'>NA<!CODE=00000></font></b></td>";
        PUT "<td align='center' valign='bottom'><b><font
face='Arial,Helvetica,Swiss,Geneva' color='#663300'
size='2'>NA<!CODE=00000></font></b></td>";
        END;
        PUT "<tr bgcolor= &gray.><td width='90%' ALIGN=LEFT
colspan=&COLMNS><b><font face='&fontface.' size='2'>Enrollment
Group</font></b></td>";
        PUT "<tr><td><b><font face='&fontface.' size='2'>" ROWCAT
"</font></b></td>";
        END;
        ELSE IF ROWCAT IN ("Enrollees with Military PCM",
        "Enrollees with Civilian PCM") THEN PUT "<tr><td><b>
<font face='&fontface.' size='2'>&HTMLSP.&HTMLSP." ROWCAT "</font> </b></td>";
        ELSE IF ROWCAT="Non-enrolled Beneficiaries" THEN PUT "<tr><td><b><font
face='&fontface.' size='2'>" ROWCAT "</font></b></td>";
        LROWCAT=ROWCAT;
        END;

        /*-----*/
        /* 2000/11: begin xls code */
        /* output column A headings */
        /*-----*/
        %if &outxls.=1 %then %do;

```

```

if _n_=1 then do;
  FILE XLSDATA;
  PUT "All Children" '09'x;
  PUT "Under Age 6" '09'x;
  PUT "Benchmark" '09'x;
  PUT "6-12 Years" '09'x;
  PUT "Benchmark" '09'x;
  PUT "13-17 Years *" '09'x;
  PUT "Prime Enrollees" '09'x;
  PUT "Enrollees with Military PCM" '09'x;
  PUT "Enrollees with Civilian PCM" '09'x;
  PUT "Non-enrolled Beneficiaries" '09'x;
end;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/
%end;

*****;
**** Need to output different formats ****;
**** FOR BENCHMARKS ****;
*****;

%if &var3.=0 %then %do;

  IF ROWCAT IN("Under Age 6-Benchmark",
    "6-12 Years-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 IF SCORE=.P THEN DO;
      PUT "<td align='center' valign='bottom'><font face='&fontface.'
size='2'>NP<!CODE= " +(-1) ORDER Z5. "></font></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      */
/* OUTPUT DATA FOR REST OF TABLE */
/* SINCE PRIMARY CARE MANAGER    */
/* LAST COLUMN IN TABLE DO NOT  */
/* USE THE @@ SIGN SO SAS WILL   */
/* GO TO NEXT ROW IN TABLE.     */
/*-----*/
%if &outxls.=1 %then %do;
    FILE XLSdata1;

```

```

    IF BENEFIT NE "Primary Care Manager" and ROWCAT NOT IN("Under Age 6-
Benchmark",
        "6-12 Years-Benchmark") THEN DO;
        IF SCORE=. THEN          PUT "****" '09'x @@;
        ELSE IF SCORE=.A THEN    PUT "NA"  '09'x @@;
        ELSE IF SCORE=.P THEN    PUT "NP"  '09'x @@;
        ELSE                     PUT SCORE '09'x @@;
    END;
    ELSE IF BENEFIT NE "Primary Care Manager" AND ROWCAT IN ("Under Age 6-
Benchmark",
        "6-12 Years-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 IF BENEFIT = "Primary Care Manager" and ROWCAT NOT IN("Under Age 6-
Benchmark",
        "6-12 Years-Benchmark") THEN DO;
        IF SCORE=. THEN          PUT "****" '09'x ;
        ELSE IF SCORE=.A THEN    PUT "NA"  '09'x ;
        ELSE IF SCORE=.P THEN    PUT "NP"  '09'x ;
        ELSE                     PUT SCORE '09'x ;
    END;

```

```

    ELSE IF BENEFIT = "Primary Care Manager" and ROWCAT IN("Under Age 6-
Benchmark",
        "6-12 Years-Benchmark") THEN DO;

```

```

        IF SCORE =. THEN PUT "****" '09'x;
        ELSE IF SCORE =.A THEN PUT "NA" '09'x;
        ELSE PUT SCORE '09'x;

    END;
%end;
/*-----*/
/* 2000/11: end xls code */
/*-----*/

%end;

/* SUBSETS */

%else %do;
    IF BENTYPE not in ("2002","2001","2000","Trend") and &seepage. =0 then do;
    ***KRR added 2000 on 11/27/2002;
        IF BENEFIT IN("Getting Needed Care",
                    "Getting Care Quickly",
                    "How Well Doctors Communicate",
                    "Claims Processing",
                    "Courteous and Helpful Office Staff",
                    "Customer Service",
                    "Primary Care Manager") THEN DO; *** format=3.2 ***;

            IF ROWCAT IN("Under Age 6-Benchmark",
                        "6-12 Years-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 IF SCORE=.P THEN DO;
                    PUT "<td align='center' valign='bottom'><b><font
face='&fontface.' size='2'>NP<!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;
                ELSE IF BENEFIT = "Getting Care Quickly" THEN DO; *** format=3.2 ***;
                IF ROWCAT IN("Under Age 6-Benchmark",
                            "6-12 Years-Benchmark") THEN DO; *** no significance
***;
                IF BENTYPE="Wait More Than 15 Minutes Past Appointment" THEN PUT
"<td align='center' valign='bottom'><b><font face='&fontface.' color=&blue.
size='2'>NA<!CODE= " +(-1) ORDER Z5. "><sup>***</sup></font></b></td>";
                ELSE 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;
ELSE DO; *** format=3.0 ***;
IF ROWCAT IN("Under Age 6-Benchmark",
"6-12 Years-Benchmark") THEN DO; *** no significance
***;
IF SCORE=. THEN PUT "<td align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!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 IF SCORE=.P THEN DO;
PUT "<td align='center' valign='bottom'><font
face='&fontface.' size='2'>NP<!CODE= " +(-1) ORDER Z5. "></font></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 XLSdata1;

IF BENTYPE NE "Trend" and BENEFIT NE "Getting Care Quickly" and ROWCAT NOT
IN("Under Age 6-Benchmark",
"6-12 Years-Benchmark") THEN DO;
IF SCORE=. THEN PUT "****" '09'x @@;
ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
ELSE IF SCORE=.P THEN PUT "NP" '09'x @@;
ELSE PUT SCORE '09'x @@;
END;
ELSE IF BENTYPE NE "Trend" and BENEFIT NE "Getting Care Quickly" and ROWCAT
IN ("Under Age 6-Benchmark",
"6-12 Years-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 IF BENTYPE = "Trend" and BENEFIT NE "Getting Care Quickly" THEN DO;
IF SCORE=. THEN PUT "****" '09'x;
ELSE IF SCORE=.A THEN PUT "NA" '09'x;
ELSE IF SCORE=.P THEN PUT "NP" '09'x ;
ELSE PUT SCORE '09'x;
END;

ELSE IF BENTYPE ="Trend" and BENEFIT = "Getting Care Quickly" THEN PUT "***"
'09'x;

ELSE IF BENTYPE in ("2001") and BENEFIT = "Getting Care Quickly" and ROWCAT
IN ("Under Age 6-Benchmark",
"6-12 Years-Benchmark")THEN PUT "NA" '09'x @@;
ELSE IF BENTYPE NOT IN ("2001","Trend") and BENEFIT = "Getting Care
Quickly" and ROWCAT IN ("Under Age 6-Benchmark",
"6-12 Years-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 IF BENTYPE NOT IN ("Trend") and BENEFIT = "Getting Care Quickly" and
ROWCAT NOT IN ("Under Age 6-Benchmark",

```



```

        "6-12 Years-Benchmark")THEN DO;

    IF SCORE=. THEN          PUT "****" '09'x @@;
    ELSE IF SCORE=.A THEN    PUT "NA"  '09'x @@;
    ELSE IF SCORE=.P THEN    PUT "NP"  '09'x @@;
    ELSE                      PUT SCORE '09'x @@;
END;

%end;

/*-----*/
/* 2000/11: end xls code */
/*-----*/

%end;

*****TREND PAGES*****;

%if &seppage.=2 %then %do;

IF BENTYPE IN ("2002","2001","2000","Trend") THEN DO; ***KRR 11/27/2002 added
2000;

    IF BENEFIT IN("Getting Needed Care",
                  "How Well Doctors Communicate",
                  "Claims Processing",
                  "Courteous and Helpful Office Staff",
                  "Customer Service",
                  "Personal Doctor or Nurse",
                  "Health Care",
                  "Specialty Care",
                  "Health Plan",
                  "Primary Care Manager") THEN DO;

        IF ROWCAT IN("Under Age 6-Benchmark",
                     "6-12 Years-Benchmark") THEN DO; *** no significance ***;
        *** MJS 12/9/02 - Changed *** to NA. ;
            IF SCORE=. THEN PUT "<td align='center' valign='bottom'><b><font
face='&fontface.'" color=&blue. size='2'>NA<!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;
                END;
            END;
        END;
    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 IF SCORE=.P THEN DO;
    PUT "<td align='center' valign='bottom'><b><font
face='&fontface.' size='2'>NP<!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;

ELSE IF BENEFIT = "Getting Care Quickly" THEN DO; *** format=3.2 ***;

    IF BENTYPE="Trend" and ROWCAT NOT IN ("Under Age 6-Benchmark",
        "6-12 Years-Benchmark") THEN PUT "<td align='center'
valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE= " +(-1) ORDER Z5.
"></font></b></td>";
    ELSE IF BENTYPE="Trend" and ROWCAT IN ("Under Age 6-Benchmark",
        "6-12 Years-Benchmark") THEN PUT "<td align='center'
valign='bottom'><b><font face='&fontface.' size='2' color=&blue.>***<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
    ELSE IF ROWCAT IN("Under Age 6-Benchmark", /*** KRR Added 11-27-2002
***/
        "6-12 Years-Benchmark") and BENTYPE = "2000" THEN PUT
"<td align='center' valign='bottom'><b><font face='&fontface.' color=&blue.
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF ROWCAT IN("Under Age 6-Benchmark",
        "6-12 Years-Benchmark") and BENTYPE = "2001" THEN PUT
"<td align='center' valign='bottom'><b><font face='&fontface.' color=&blue.
size='2'>" Score 3.0"<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
    ELSE IF ROWCAT IN("Under Age 6-Benchmark",
        "6-12 Years-Benchmark") and BENTYPE = "2002" THEN PUT
"<td align='center' valign='bottom'><b><font face='&fontface.' color=&blue.
size='2'>" Score 3.0"<!CODE= " +(-1) ORDER Z5. "></font></b></td>";

    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 PUT "<td align='center' valign='bottom'><font face='&fontface.'
size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></td>";

/*
        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>";
<!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;

        ELSE DO;
            IF ROWCAT IN("Under Age 6-Benchmark",
                "6-12 Years-Benchmark") THEN DO;
                IF SCORE=. THEN PUT "<td align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>NA<!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;
        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 IF SCORE=.P THEN DO;
    PUT "<td align='center' valign='bottom'><font face='&fontface.'
size='2'>NP<!CODE= " +(-1) ORDER Z5.  "></font></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=.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;

```

```

IF EOF THEN DO;
  IF BENEFIT = "Getting Care Quickly" THEN DO;

    /** MF Changes **/
    PUT "<tr>";
    PUT "    <td colspan='&colms.'><font
face='Arial,Helvetica,Swiss,Geneva' size='2'>
        Source: 2002 Health Care Survey of DOD Beneficiaries</font>
        <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 benchmark not available</font><br>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva'
size='2'><sup>*</sup>
                Benchmarks are only available for children under age 6 and 6
to 12-year-olds.
                </font><br>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva'
size='2'><sup>*</sup>Results from 2000 and 2002 are not comparable due to
changes in question wording.</font>
                <br>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>***
Suppressed due to small sample size.</font>";
    PUT "    <center><a href='&hrefxls.'><img src='excel.gif'
border=0>Download
                Page</a></center> </td>";
    PUT "</tr>";

END;
ELSE IF (BENEFIT = "Primary Care Manager" OR &var3.=0) THEN DO;
    /** MF Changes **/
    PUT "<tr>";
    PUT "    <td colspan='&colms.'><font
face='Arial,Helvetica,Swiss,Geneva' size='2'>
                Source: 2002 Health Care Survey of DOD Beneficiaries</font>
                <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 benchmark
                not available</font><br>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>NP
Indicates not enrolled
                in TRICARE Prime</font><br>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva'
size='2'><sup>*</sup>Benchmarks are
                only available for children under age 6 and 6 to 12-year-
olds.</font><br>";
    PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2'>***
Indicates significance
                not available</font>";
    PUT "    <center><a href='&hrefxls.'><img src='excel.gif'
border=0>Download
                Page</a></center> </td>";
    PUT "</tr>";
END;
ELSE DO;
    /** MF Changes **/
    PUT "<tr>";
    PUT "    <td colspan='&colms.'><font
face='Arial,Helvetica,Swiss,Geneva' size='2'>
                Source: 2002 Health Care Survey of DOD Beneficiaries</font>
                <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 benchmark not
        available</font><br>" ;
        PUT "      <font face='Arial,Helvetica,Swiss,Geneva'
size='2'><sup>*</sup>Benchmarks are
        only available for children under age 6 and 6 to 12-year-
olds.</font><br>" ;
        PUT "      <font face='Arial,Helvetica,Swiss,Geneva' size='2'>***
Indicates significance
        not available</font>" ;
        PUT "      <center><a href='&hrefxls.'><img src='excel.gif'
border=0>Download
        Page</a></center> </td>" ;
        PUT "</tr>" ;
    END;
END;

/*-----*/
/* 2000/11: begin xls code */
/* OUTPUT FOOTNOTES      */
/*-----*/

%if &outxls.=1 %then %do;
    FILE XLSDATA2;

    IF _n_=1 and BENEFIT = "Getting Care Quickly" THEN DO;

        PUT "Source: 2002 Health Care Survey of DOD Beneficiaries";
        PUT "Indicates score significantly exceeds benchmark";
        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates benchmark not available";
        PUT "*Benchmarks are only available for children under age 6 and
6 to 12-year-olds";
        PUT "***Results from 2000 and 2002 are not comparable due to
changes in question wording";
        PUT "**** Suppressed due to small sample size.";

    END;

    ELSE IF _n_=1 and (BENEFIT = "Primary Care Manager" OR &var3.=0)
THEN DO;

        PUT "Source: 2002 Health Care Survey of DOD Beneficiaries";
        PUT "Indicates score significantly exceeds benchmark";
        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates benchmark not available";
        PUT "NP Indicates not enrolled in TRICARE Prime";
        PUT "*Benchmarks are only available for children under age 6 and
6 to 12-year-olds.";
        PUT "**** Indicates significance not available";

```

```

        END;

        ELSE IF _n_=1 THEN DO;
            PUT "Source: 2002 Health Care Survey of DOD Beneficiaries";
            PUT "Indicates score significantly exceeds benchmark";
            PUT "Indicates score significantly falls short of benchmark";
            PUT "NA Indicates benchmark not available";
            PUT "*Benchmarks are only available for children under age 6 and
6 to 12-year-olds.";
            PUT "**** Indicates significance not available";

        END;

    %end;

/*-----*/
/* 2000/11: end xls code */
/*-----*/

RUN;

proc print data=html (obs=50);
var rowcat;
run;

*****;
**** Print out footer info ****;
*****;

DATA _NULL_;
FILE "&FILEOUT1." MOD;
LENGTH MAJGRP1 MAJGRP2 MAJGRP3 MAJGRP4 $ 30;

HREFTOP=COMPRESS("c&var1.-0-0.htm");
/** MF Changes **/
PUT "<tr>";
PUT "    <td colspan='&columns.'>";
PUT "        <center>";
PUT "            <a href='index.htm'><img src=&home_button. border='0'
            alt='Return to Main Page'></a>&htmlsp.&htmlsp.";
PUT "            <a href="" HREFTOP +(-1) ""><img src=&back_button.
border='0'
            alt='Return to Top Level'></a>&htmlsp.&htmlsp.";
PUT "            <a href='help.htm'><img src=&help_button. border='0'
alt='Help'></a><br>";
PUT "            <font face='Arial,Helvetica,Swiss,Geneva' size='2'>
            <b>Click below to view this table by other groups<br>";
PUT "            </b></font>";

IF &SEPPAGE.=0 THEN DO;
    majgrp1=COMPRESS("c1-&var2.-&var3..htm");
    majgrp2=COMPRESS("c2-&var2.-&var3..htm");
    majgrp3=COMPRESS("c3-&var2.-&var3..htm");

```

```

majgrp4=COMPRESS("c4-&var2.-&var3..htm");
END;

ELSE IF &SEPPAGE.=2 THEN DO;
majgrp1=COMPRESS("c1-&var2.-&var3.q.htm");
majgrp2=COMPRESS("c2-&var2.-&var3.q.htm");
majgrp3=COMPRESS("c3-&var2.-&var3.q.htm");
majgrp4=COMPRESS("c4-&var2.-&var3.q.htm");
END;

PUT "<a href="" MAJGRP1 +(-1) ""><font face='&fontface.' size='2'>
All CONUS MHS Children</font></a>&htmlsp.&htmlsp.";
PUT "<a href="" MAJGRP2 +(-1) ""><font face='&fontface.' size='2'>
Children in Regions 1, 2 & 5</font></a>&htmlsp.&htmlsp.";
PUT "<a href="" MAJGRP3 +(-1) ""><font face='&fontface.' size='2'>
Children in Regions 6, 9-12 & Alaska</font></a>&htmlsp.&htmlsp.";
PUT "<a href="" MAJGRP4 +(-1) ""><font face='&fontface.' size='2'>
Children in Regions 3, 4 & 7/8</font></a>";

RUN;

/**** Close HTML page ****/

DATA _NULL_;
FILE "&FILEOUT1." MOD;

PUT "</center></td></tr></table>";
PUT "</body></html>";

RUN;

/*-----*/
/* 2000/12: begin xls color code */
/* THIS CODE COLORS AND CENTERS */
/* DATA IN EXCEL TABLE */
/*-----*/
%if &outxls.=1 %then %do;
FILENAME CMDS DDE 'excel|system';

/* Align 2 titles */
DATA _NULL_;
FILE CMDS;
CELL=COMPRESS("[SELECT("R1C1:R1C"||&xlscols.||""]"); PUT CELL;
PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across
columns **/
CELL=COMPRESS("[SELECT("R2C1:R2C"||&xlscols.||""]"); PUT CELL;
PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across
columns **/
RUN;

DATA _NULL_;
FILE CMDS;
SET HTML(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 COLUMN>&xlscols. 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 ROWCAT IN("Under Age 6-Benchmark",
             "6-12 Years-Benchmark") THEN
    PUT
'[FORMAT.FONT("Arial",10,True,False,False,False,9)]';  /** BOLD & DARK RED
***/
    ELSE IF BENEFIT NE "Getting Care Quickly" AND 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;
    ELSE IF BENEFIT = "Getting Care Quickly" AND BENTYPE NOT IN
("2000","2001","2002","Trend") AND 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;
    ELSE PUT '[FORMAT.FONT("Arial",10,False,False,False,False,5)]';      /**
BLUE */

/** 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 */
/*-----*/

```

```

%MEND MKHTML;

```

```

/*****
The following MACRO creates the macro calls for MKHTML which will create XLS
files if outxls=1. There are four groups (All CONUS MHS CHILDREN; CHILDREN IN
REGIONS 1,2,& 5; Children in Regions 6, 9-12 & Alaska; and Children in
Regions
3, 4 & 7/8. For each region, there are 11 RATINGS: (GETTING NEEDED CARE,
GETTING CARE
QUICKLY, HOW WELL DOCTORS COMMUNICATE, CLAIMS PROCESSING, COURTEOUS AND HELPFUL
OFFICE STAFF, CUSTOMER SERVICE, PERSONAL DOCTOR OR NURSE, HEALTH CARE,
SPECIALTY CARE,
HEALTH PLAN, and PRIMARY CARE MANAGER).

```

```

THE FIRST PARAMATER IN THE MACRO CALL INDICATES THE GROUP, THE THIRD PARAMATER
INDICATES THE RATING, and since the trend pages appear on the same spreadsheet
as the subbenefit information there is no need to specify the fourth paramater
as anything other than zero

```

```

*****
***/

```

```

%MACRO EXCEL1();
    %DO J=1 %TO 4;          /** 4 Groups **/
        %DO K=0 %TO 11;    /** 11 Benefits Plus one main page for all benefits
**/
            %MKHTML(&J.,0,&K,0); /** Main page, by Group **/
        %END;
    %END;

```

```

%MEND EXCEL1;

```

```

/*** Run macro to create Excel files ONLY ***/

```

```

%EXCEL1;

```

```

/*****

```

The following MACRO creates the macro calls for MKHTML. There are four groups (All CONUS MHS CHILDREN; CHILDREN IN REGIONS 1,2,& 5; Children in Regions 6, 9-12 & Alaska; and Children in Regions 3, 4 & 7/8. For each region, there are 11 RATINGS: (GETTING NEEDED CARE, GETTING CARE QUICKLY, HOW WELL DOCTORS COMMUNICATE, CLAIMS PROCESSING, COURTEOUS AND HELPFUL OFFICE STAFF, CUSTOMER SERVICE, PERSONAL DOCTOR OR NURSE, HEALTH CARE, SPECIALTY CARE, HEALTH PLAN, and PRIMARY CARE MANAGER).

THE FIRST PARAMATER IN THE MACRO CALL INDICATES THE GROUP, THE THIRD PARAMATER INDICATES THE RATING, and the FOURTH PARAMATER INDICATES IF IT IS A MAIN or SUB PAGE(=0)
OR IF IT IS A TREND PAGE (=2)

THIS MACRO CREATES A SEPARATE HTML PAGE FOR THE MAIN PAGE(1-0-0), SUB-PAGES1-0-1 through 11
FOR EACH RATING (EXCEPT PARENT'S RATINGS) AND A TREND PAGE FOR EACH RATING (1-0-1 through 11q

*****/

```
%MACRO DOALL1();
  %DO J=1 %TO 4;          /** 4 Groups **/
    %DO K=0 %TO 11;      /** 11 RATINGS PLUS ONE MAIN PAGE FOR ALL RATINGS **/
      %MKHTML(&J.,0,&K.,0);  /** Main page, by Group **/
      %IF &K NE 0 %THEN %DO;  ***KRR added 11-27-2002;
        %MKHTML(&J.,0,&K.,2) /** Trend page, by Group **/
      %END;
    %END;
  %END;
```

%MEND DOALL1;

```
/** SET OUTXLS=0 so can create the HTML and the EXCEL FILES at one time **/
/** SET THIS EQUAL TO 1 IF YOU ONLY WANT TO RUN THE EXCEL FILES          **/
```

```
%LET OUTXLS=0;
%DOALL1;
```

```
/** Excel Macro added, based on makehtmqsas, C.Rankin 10/24/2001 **/
```

endsas;

```
TITLE1 "Validate child DoD Health Survey Scores/Report Cards (8687-100)";
TITLE2 "Program Name: QC_CHILD.SAS By Daniele Beahm";
TITLE3 "Program Inputs: TREND_C.SD2 - Scores Database in WEB Layout and report
card HTML files";
TITLE4 &TITLE;
```

```
PROC COMPARE DATA=MERGED BRIEF;
  VAR SIG;
  WITH SIG_;
RUN;
```

```

PROC COMPARE DATA=MERGED BRIEF;
  VAR SCORE1;
  WITH SCORE_;
RUN;

PROC PRINT DATA=MERGED;
where sig ne sig_;
var rowcat benefit bentype sig sig_;
TITLE " WHERE SIG NOT EQUAL TO SIG_";
RUN;

PROC PRINT DATA=MERGED;
where score1 ne score_;
var rowcat benefit bentype score score1 score_;
TITLE " WHERE SCORE1 NOT EQUAL TO SCORE_";
RUN;

X "DEL QC_CHILD.DAT";
X "CD ..";

%MEND COMPARE;

%COMPARE(INCOND=C*-*,TITLE="NON-FRAMES VERSION");

```

APPENDIX F

WEB SPECIFICATIONS FOR CHILD TRICARE CONSUMER REPORTS

CHILD TRICARE CONSUMER REPORTS

The findings from the child HCSDB are presented in the Child TRICARE Consumer Reports. This section provides background on the HCSDB for children and describes the structure and content of the Child Consumer Reports.

1. Background

The 2002 HCSDB questionnaire for children closely resembles the 1999 and 2000 questionnaire, which includes questions from the CAHPS 2.0H survey instruments. This correspondence between surveys allows us to compare findings for children in the MHS with finding from the previous year and with findings from the National CAHPS Benchmarking Database (NCBD), which contains responses of privately insured children in the civilian sector. Most questions in the child survey are identical to the CAHPS questions, and some are unique to issues related to TRICARE. Most topics in the Consumer Reports are based on the CAHPS questions.

The sample for the HCSDB for children is stratified by three TRICARE Prime enrollment groups, three geographic areas, and three age groups:

- TRICARE Prime Enrollment. Children enrolled in Prime or not enrolled in Prime.
- Geographic Areas. Children residing in one of three geographic areas organized to reflect the relative maturity of the TRICARE Prime health plan in each regional group. The areas are referred to as new regions, where Prime was most recently implemented (Regions 1, 2, and 5); mature regions, where Prime is most “mature” (Regions 6, 9-12, and Alaska); and other regions (Regions 3, 4, and 7/8).
- Age Group. Children under age 6, ages 6 to 12, and ages 13 to 17.

2. Format

Like the Adult Consumer Reports, the Child Consumer Reports is produced in a tabular format. The reports cover the following four topics related to pediatric care in the MHS:

- Ease of Access
- Communication and Customer Service
- Parents' Satisfaction Ratings
- Primary Care Manager

Table I lists the CAHPS composite measures and overall ratings and the items that make up each of them. Table II lists the questions making up a composite measure of the respondents' experience with their primary care managers. Question numbers are from the 2002 Child HCSDB.

TABLE I

CAHPS 2.0 H COMPOSITE AND RATING QUESTIONS AND
RESPONSE CHOICES

GETTING NEEDED CARE		RESPONSE CHOICE
Q6	With the choices your child's health plan gave you, how much of a problem, if any, was it to get a personal doctor or nurse for your child you are happy with?	A big problem A small problem Not a problem
Q14	In the last 12 months, how much of a problem, if any, was it to get a referral to a specialist that your child needed to see?	A big problem A small problem Not a problem
Q31	In the last 12 months, how much of a problem, if any, was it to get the care for your child that you or a doctor believed necessary?	A big problem A small problem Not a problem
Q32	In the last 12 months, how much of a problem, if any, were delays in your child's health care while you waited for approval from your child's health plan?	A big problem A small problem Not a problem
GETTING CARE QUICKLY		
Q19	In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed for your child?	Never Sometimes Usually Always
Q21	In the last 12 months, how often did your child get an appointment for regular or routine care as soon as you wanted?	Never Sometimes Usually Always
Q24	In the last 12 months, when your child needed care right away for an illness or injury, how often did your child get care as soon as you wanted?	Never Sometimes Usually Always
Q33	In the last 12 months, how often did your child wait in the doctor's office or clinic more than 15 minutes past your appointment time to see the person you went to see?	Never Sometimes Usually Always

TABLE I (continued)

HOW WELL DOCTORS COMMUNICATE		RESPONSE CHOICE
Q36	In the last 12 months, how often did your child's doctors or other health providers listen carefully to you?	Never Sometimes Usually Always
Q37	In the last 12 months, how often did your child's doctors or other health providers explain things in a way you could understand?	Never Sometimes Usually Always
Q38	In the last 12 months, how often did your child's doctors or other health providers show respect for what you had to say?	Never Sometimes Usually Always
Q40	In the last 12 months, how often did your child's doctors or other health providers explain things in a way your child could understand?	Never Sometimes Usually Always
Q41	In the last 12 months, how often did doctors or other health providers spend enough time with your child?	Never Sometimes Usually Always
COURTEOUS AND HELPFUL OFFICE STAFF		
Q34	In the last 12 months, how often did office staff at a doctor's office or clinic treat you and your child with courtesy and respect?	Never Sometimes Usually Always
Q35	In the last 12 months, how often were office staff at your child's doctor's office or clinic as helpful as you thought they should be?	Never Sometimes Usually Always
CLAIMS HANDLING		
Q45	In the last 12 months, how often did your child's health plan handle your child's claims in a reasonable time?	Never Sometimes Usually Always
Q46	In the last 12 months, how often did your child's health plan handle your child's claims correctly?	Never Sometimes Usually Always
CUSTOMER SERVICE		
Q49	In the last 12 months, how much of a problem, if any, was it to find or understand information in the written materials?	A big problem A small problem Not a problem
Q51	In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your child's health plan's customer service?	A big problem A small problem Not a problem
Q56	In the last 12 months, how much of a problem, if any, did you have with paperwork for your child's health plan?	A big problem A small problem Not a problem

TABLE I (continued)

RATING OF ALL HEALTH CARE		RESPONSE CHOICE
Q42	We want to know your rating of all your child's health care in the last 12 months from all doctors and other health providers. Use any number from 0 to 10 where 0 is the worst health care possible, and 10 is the best health care possible. How would you rate all your child's health care.	0 Worst health care possible 1 2 3 4 5 6 7 8 9 10 Best health care possible
RATING OF HEALTH PLAN		
Q57	We want to know your rating of all your experience with your child's health plan. Use any number from 0 to 10 where 0 is the worst health plan possible, and 10 is the best health plan possible. How would you rate your child's health plan now?	0 Worst health plan possible 1 2 3 4 5 6 7 8 9 10 Best health plan possible
RATING OF SPECIALIST		
Q16	We want to know your rating of the specialist your child saw most often in the last 12 months, including a personal doctor if he or she were a specialist. Use any number from 0 to 10 where 0 is the worst specialist possible, and 10 is the best specialist possible. How would you rate your child's personal doctor or nurse now?	0 Worst specialist possible 1 2 3 4 5 6 7 8 9 10 Best specialist possible

TABLE I (continued)

RATING OF PERSONAL DOCTOR		
Q8	We want to know your rating of your child's personal doctor or nurse. Use 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. How would you rate your child's personal doctor or nurse now?	0 Worst personal doctor or nurse possible 1 2 3 4 5 6 7 8 9 10 Best personal doctor or nurse possible

TABLE II

PRIMARY CARE MANAGER COMPOSITE RATING QUESTIONS AND
RESPONSE CHOICES

	TRICARE PRIME-PRIMARY CARE MANAGER	RESPONSE CHOICE
Q9	For members of TRICARE Prime, the primary point of contact regarding your child's health is called a primary care manager, or PCM. Does your child have a TRICARE primary care manager?	Yes No
Q10	Do you know the name of your child's TRICARE primary care manager?	Yes No
Q11	In the past 12 months, how much of a problem was it for your child to see his or her TRICARE primary care manager?	A big problem A small problem Not a problem

3. Technical Description

a. Electronic Reporting

The Child Consumer Reports are designed to appear on the TMA web site. The reports consist of tables in two levels. The first level shows composite scores and ratings and the second level provides more information about scores in the first level. The second level contains tables presenting the questions making up a composite and tables comparing current scores with scores from previous years. The reports exist in an electronic format that allows the reader to drill down through the column headings in the first-level reports to obtain further detail on the reported composite scores. Readers are able to print the reports locally.

The reader accesses the report card through a menu presented on its index page. The menu requires the reader to first choose the geographic area of interest: CONUS MHS overall or aggregate findings for “new” regions (1, 2, and 5), “mature” regions (6, 9-12, and Alaska), or “other” regions (3, 4, and 7/8).

b. First-Level Report

In the first-level tables, the composite measures or average ratings for each topic are displayed for three age groups and four enrollment groups. The three age groups are under age 6, 6 to 12 years, and 13 to 17 years. The enrollment groups are enrolled in TRICARE Prime, enrolled in TRICARE Prime with a military PCM, enrolled in TRICARE Prime with a civilian PCM, and not enrolled in TRICARE Prime.

In most cases, CAHPS 2.0H version composites are used so that findings for children in the MHS can be compared with findings from the NCBDB. Composites are calculated as the average of provider proportions as are composites from the adult survey. Benchmarks based on CAHPS data are shown alongside the results of the survey or each of the two younger age groups, but not for children age 13 to 17 because children of that age are not included in the NCBDB. Benchmarks are taken from the 1999 NCBDB because more responses are available from that year than from 2000 and 2002.

In addition to these CAHPS composites, an additional composite measure describing respondents' experiences with their child's primary care manager is included. This score is calculated as the weighted average of the proportions expressing satisfaction with different aspects of their and their child's relationship with the child's personal doctor.

Parents' satisfaction with their children's care is the only aspect of care presented not as a composite score but as a rating (on a scale from 0 to 100, where 0 is worst and 100 is best). Parents' ratings of their child's personal doctor or nurse, their child's specialist, all the child's health care, and the child's health plan are displayed. Scores based on parents' ratings are the proportion giving a rating of 8 or above.

c. Second-Level Reports

Clicking on the column headings for composite scores in the first-level consumer report brings up a table showing findings for each aspect of care in a composite measure. These results are presented as weighted survey estimates for the same enrollment and age groups in the first-level report. There are no reports breaking down composite scores for the parents' satisfaction ratings, since each first-level rating represents the findings for a unique survey question.

By clicking on one of the buttons labeled Trend in the first row beneath the column headings in a first-level report, users are taken to another second-level table that shows the current scores for a rating or composite compared to previous year's.

APPENDIX G

SAS CODE

1. COMBINE ITEM RESPONSE DATA FROM NRC WITH THE MPR SAMPLING AND DEERS VARIABLES

```

*****
*****
*
* PROGRAM:  MERGENRC.SAS
* TASK:    QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (8860-300)
* PURPOSE: COMBINE ITEM RESPONSE DATA FROM NRC 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.
*
* INPUTS:  1) RTnnnnnR.SD2 - 2002 Quarterly DOD Health Survey Data from NRC
*            where nnnnn = Number of returns
*            2) Q302AFLAGFIN.TXT - MPRID/FLAGFIN Text file (entire sample)
*            3) BWT.SD2 - MPR Sampling and DEERS variables
*            4) SAMPLA02.SD2 - DEERS variables
*
* OUTPUTS: 1) MERGENRC.SD2 - 2002 Quarterly DOD Health Survey Data
*            (Combined NRC, MPR, and DEERS variables)
*
* INCLUDES: 1) CONSVAR0.SAS - Construct XREGION and CONUS based on CACSMPL.
*
*****;
LIBNAME  INBWT    "D:\KEITH\DOD\Q3_2002\DATA";
LIBNAME  IN       V612 "D:\KEITH\DOD\Q3_2002\DATA";
LIBNAME  OUT      v612 "D:\KEITH\DOD\Q3_2002\DATA";
FILENAME FLAG_FIN "D:\KEITH\DOD\Q3_2002\DATA\Q302AFLAGFIN.TXT";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*****
* Define fielding start date so AGE can be recalculated based on DOB.
*****;
%LET FIELDDATE = 07012002; * mmddyyyy;
%LET FIELDLBL = July 1st 2002;

*****
* Input FLAG_FIN variable for entire sample.
*****;
DATA FLAG_FIN;
  INFILE FLAG_FIN LRECL=999 RECFM=V MISSEVER;
  LENGTH FLAG_FIN $2;
  LENGTH MPRID    $8;
  INPUT  @001 MPRID    $CHAR7.
         @017 FLAG_FIN $
        ;
  MPRID = '0' || MPRID; * Put back the leading zero that NRC removed;
  N = _N_;
  IF _N_ = 1 THEN DELETE; *Remove Header Record;
RUN;
PROC SORT DATA=FLAG_FIN; BY MPRID; RUN;

*****
* SORT the RETURNS and the original sample (BWT).
*****;

```



```

PROC SORT DATA=IN.RT13502R OUT=RETURNS; BY MPRID; RUN;
DATA RETURNS;
  LENGTH MPRID $8;
  SET RETURNS;
RUN;

*****
* BEGIN add code for PATCH file fix for smoking question (H02064).
* Question H02064 was incorrectly recoded by NRC in the initial file.
* This code will need to be deleted for subsequent quarters.
*****;
PROC SORT DATA=IN.H02064 OUT=H02064(KEEP=MPRID H02064); BY MPRID; RUN;
DATA H02064;
  LENGTH MPRID $8;
  SET H02064;
RUN;
DATA RETURNS;
  MERGE RETURNS H02064;
  BY MPRID;
RUN;
*****
* END add code for PATCH file fix for smoking question (H02064).
* The above code will need to be deleted for subsequent quarters.
*****;

PROC SORT DATA=INBWT.BWT OUT=BWT; BY MPRID; RUN;

*****
* Combine the "NO RETURN" FLAG_FIN records with the RETURNS.
*****;
DATA NORETURN;
  MERGE RETURNS(IN=IN1) FLAG_FIN(IN=IN2);
  BY MPRID;
  KEEP MPRID FLAG_FIN;
  IF IN2 AND NOT IN1;
RUN;

DATA COMBINED;
  SET RETURNS NORETURN;
  BY MPRID;
RUN;

*****
* Attach DEERS variables to the combined file that were omitted from the
* BWT file.
*****;
PROC SORT DATA=IN.SAMPLA02 OUT=SAMPLA02
  (KEEP=MPRID DAGEQY DBENCAT DCATCH DMEDELG DSPONSVC LEGDDSCD MBRRELCD
  MEDTYPE MRTLSTAT PATCAT PCM RACEETHN
  PNLCATCD PNBRTHTD PAYPLNCD E1 E2 E3 E4 E5 E6 E7);
  BY MPRID;
RUN;

*****
* Attach the original sampling variables to the combined file.
*****;
DATA MERGENRC;
  MERGE BWT COMBINED SAMPLA02;

```

```

BY MPRID;
FLAG_FIN = COMPRESS(FLAG_FIN); *Trim off the blanks;
*****
* The following code from Don/Nancy/Esther was added to fix CACSMPL
* 2002 data for Q1. Do not remove this code.
*****;
***** Replace CACSMPL 6992 with its DCATCH *****;
IF CACSMPL = '6992' THEN GEOCELL = DCATCH;
IF CACSMPL = '6992' THEN CACSMPL = GEOCELL;
***** Replace out of area catchment areas *****;
IF CACSMPL IN ('0999') THEN CACSMPL='9999';
IF CACSMPL IN ('0934') THEN CACSMPL='9902';
ELSE IF CACSMPL IN ('0933') THEN CACSMPL='9901';
ELSE IF CACSMPL IN ('0911') THEN CACSMPL='9903';
*****
* The following code from Don/Nancy/Esther was added to fix CACSMPL
* 2002 data for Q2.
*****;
IF CACSMPL = '0985' THEN CACSMPL = '9910';
IF CACSMPL = '0989' THEN CACSMPL = '9904';
*****
* DROP variables that are not needed.
*****;
DROP LITHOCD SURVTYPE SVCCD GEOSMPL GEOCELL EBG_COM EBSMPL BOTHSURV
      D_FAC D_HEALTH D_INSTAL D_PAR;
*****
* Construct XREGION and CONUS.
*****;
%INCLUDE "D:\KEITH\DOD\Q3_2002\WEIGHTING\CONSVAR0.SAS";
*****
* 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;

LENGTH XREGION 3.
        CONUS    3. ;

LABEL  CACSMPL  = 'CACSMPL - Catchment Area'
        XREGION  = 'XREGION - Region'
        CONUS    = 'CONUS - CONUS/OCONUS Indicator'
        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'
    ;
RUN;

DATA OUT.MERGENRC;
    SET MERGENRC;
    BY MPRID;
    *****
    * Construct MPCSMPL.
    *****;
    IF PAYPLNCD = 'MO' THEN
        MPCSMPL = 2;
    ELSE IF PAYPLNCD = 'MW' THEN
        MPCSMPL = 3;
    ELSE
        MPCSMPL = 1;
    *****
    * Calculate FIELDAGE based on PNBRTHDT using fielding period
    * starting date.
    *****;
    FIELDAGE = INPUT("&FIELDAGE",mmddy8.);
    DOB = SUBSTR(PNBRTHDT,5,2) || SUBSTR(PNBRTHDT,7,2) || SUBSTR(PNBRTHDT,1,4);
    BRTHDATE = INPUT(DOB,mmddy8.);

    FIELDAGE = PUT(INT((FIELDAGE - BRTHDATE)/365.25),Z3.);
    LABEL MPCSMPL  = "MPCSMPL - Military Personnel Category";
    LABEL FIELDAGE = "Age as of &FIELDLBL";
    LABEL DCATCH   = "Catchment Area";

    LENGTH QUARTER $7;
    QUARTER = "Q3 2002";
    LABEL QUARTER = 'Survey Quarter';

    DROP FIELDAGE DOB BRTHDATE PNBRTHDT PAYPLNCD;
RUN;

TITLE1 "Quarterly DOD Health Survey - Combine NRC, MPR and DEERS variables
(8860-300)";
TITLE2 "Program Name: MERGENRC.SAS By Keith Rathbun";
TITLE3 "Program Inputs: RTnnnnnR.SD2, FLAG_FIN text file, BWT.SD2, SAMPLA02.SD2
-- Program Output: MERGENRC.SD2";

PROC CONTENTS; RUN;

PROC FREQ DATA=OUT.MERGENRC(DROP=MPRID PRN);
TABLES FLAG_FIN DAGEQY*FIELDAGE XREGION*CACSMPL XREGION*CONUS _ALL_ /MISSING
LIST;
RUN;

```

2. IMPLEMENT CODING SCHEME AND CODING TABLES

```
*****
*****
*
* PROGRAM: CSCHM02C.SAS
* PURPOSE: APPLY CODING SCHEME TO DATA.
* WRITTEN: 09/04/01 Rankin
* MODIFIED: 10/23/2001 C.Rankin recoded select variables
* to 1=marked, 2=missing
* PREVIOUS PROGRAM: MERG NRCC.SAS
*
* INPUT: MERG NRCC.SD2
* OUTPUT: CSCHM02C.SD2
*
*****;
```

```
OPTIONS /*OBS=100*/ PS=79 LS=132 PAGENO=1;
```

```
LIBNAME LIBRARY V612 '..\..\DATA\CFINAL\FMTLIB';
LIBNAME IN V612 '..\..\DATA\CFINAL';
LIBNAME OUT V612 '..\..\DATA\CFINAL';
LIBNAME OLD V612 '..\..\DATA\CFINAL\OLD';
```

```
%LET INDATA=MERG NRCC;
%LET OUTDATA=CSCHM02C;
```

```
/* Vairable names in survey -- become recoded variables */
/* Note: Includes questions from both versions of the questionnaire */
```

```
%Let varlist1 =
```

```
C02001 C02002 C02003 C02004A C02004B C02004C C02004D C02004E C02004F
C02004G C02005 C02006 C02007 C02008 C02009
C02010 C02011 C02012 C02013 C02014 C02015 C02016 C02017 C02018
C02019 C02020 C02021 C02022 C02023 C02024 C02025 C02026 C02027
C02028 C02029 C02030 C02031 C02032 C02033 C02034 C02035 C02036
C02037 C02038 C02039 C02040 C02041 C02042 C02043 C02044 C02045
C02046 C02047 C02048 C02049 C02050 C02051 C02052 C02053 C02054
C02055 C02056 C02057 C02058 C02059 C02060 C02061 C02062 C02063
C02064 C02065 C02066 C02067 C02068 C02069 C02070 C02071 C02072
C02073 C02074 C02075 C02076 C02077 C02078 C02079 C02080 C02081A
C02081B C02081C C02081D C02081E C02082 C02083 C02084 C02085;
```

```
/* _O variables are the original values from the survey response */
```

```
%Let varlist2 =
```

```
C02001_O C02002_O C02003_O C02004AO C02004BO C02004CO C02004DO C02004EO
C02004FO
C02004GO C02005_O C02006_O C02007_O C02008_O C02009_O
C02010_O C02011_O C02012_O C02013_O C02014_O C02015_O C02016_O C02017_O
C02018_O
C02019_O C02020_O C02021_O C02022_O C02023_O C02024_O C02025_O C02026_O
C02027_O
C02028_O C02029_O C02030_O C02031_O C02032_O C02033_O C02034_O C02035_O
C02036_O
```

```

C02037_O C02038_O C02039_O C02040_O C02041_O C02042_O C02043_O C02044_O
C02045_O
C02046_O C02047_O C02048_O C02049_O C02050_O C02051_O C02052_O C02053_O
C02054_O
C02055_O C02056_O C02057_O C02058_O C02059_O C02060_O C02061_O C02062_O
C02063_O
C02064_O C02065_O C02066_O C02067_O C02068_O C02069_O C02070_O C02071_O
C02072_O
C02073_O C02074_O C02075_O C02076_O C02077_O C02078_O C02079_O C02080_O
C02081AO
C02081BO C02081CO C02081DO C02081EO C02082_O C02083_O C02084_O C02085_O;

```

```

TITLE 'DoD 2002 Child Survey';
TITLE2 'Apply Coding Scheme';

```

```

DATA OUT.&OUTDATA;

```

```

%INCLUDE "CSCHM02C.FMT"; /* label and format statements */

```

```

SET IN.&INDATA;

```

```

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;

```

```

/* create C02004H and C02004I from C02004HI */
/* because NRC did not provide C02004H and C02004I */
/** First set up new variables that capture the original values */

```

```

IF C02004HI = -5 THEN C02004H=1;
ELSE C02004H=2;

```

```

IF C02004HI = -6 THEN C02004I=1;
ELSE C02004I=2;

```

```

DROP C02004HI;

```

```

/* recode selected responses to be 1=marked, 2=unmarked */
/* Added C. Rankin 10/23/2001 */

```

```

ARRAY MARKED(*) C02004A C02004B C02004C C02004D C02004E C02004F

```

```

                C02004G
                C02081A C02081B C02081C C02081D C02081E;
ARRAY INFORMAT(*) C02004AO C02004BO C02004CO C02004DO C02004EO C02004FO
                C02004GO
                C02081AO C02081BO C02081CO C02081DO C02081EO;

DO J=1 TO DIM(INFORMAT);
  IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
  ELSE MARKED(J)=2;
END;
DROP J;

/* skip coding scheme for all surveys not returned **/

IF FLAG_FIN NE '1' THEN GOTO NOSURVEY;

/* NOTE 2: C02005, C02006--C02008: Personal doctor or nurse*/

ARRAY NOTE2 C02006 C02007 C02008;
N2NMISS=0;
N2MARK=0;
DO OVER NOTE2;
  IF NOTE2 NE . THEN N2NMISS+1;
  IF NOTE2 NOT IN (.,.N) THEN N2MARK+1;
END;

      IF C02005=1 AND (N2MARK >0 OR N2NMISS=0) THEN N2=1;
ELSE IF C02005 IN (1,.,.A) AND (N2NMISS>0 AND N2MARK=0) THEN DO;
  N2=2;
  C02005=2;
  DO OVER NOTE2;
    IF NOTE2=. THEN NOTE2=.N;
    ELSE NOTE2=.C;
  END;
END;
ELSE IF C02005 IN (2,.,.A) AND N2MARK>0 THEN DO;
  N2=3;
  C02005=1;
END;
ELSE IF C02005=2 AND (N2NMISS=0 OR N2MARK=0) THEN DO;
  N2=4;
  DO OVER NOTE2;
    IF NOTE2=. THEN NOTE2=.N;
    ELSE NOTE2=.C;
  END;
END;
ELSE IF C02005=. AND N2NMISS=0 THEN N2=5;
ELSE IF C02005=.A AND N2NMISS=0 THEN DO;
  N2=6;
  C02005=2;
  DO OVER NOTE2;
    NOTE2=.N;
  END;
END;
DROP N2MARK N2NMISS;

```

```

/* NOTE 3: C02009, C02010-C02012: Primary Care Manager */
ARRAY NOTE3 C02010-C02012;
N3MARK=0;
N3NMISS=0;

DO OVER NOTE3;
  IF NOTE3 NE . THEN N3NMISS+1 ;
  IF NOTE3 NOT IN (.N, .) THEN N3MARK+1;
END;

  IF C02009=1 AND N3NMISS=0 THEN N3=1;
ELSE IF C02009 IN (1,.A,.) AND N3MARK > 0 THEN DO;
  C02009=1;
  N3=2;
END;
ELSE IF C02009 IN (1,.A,.) AND N3NMISS>0 AND N3MARK=0 THEN DO;
  C02009=2;
  N3=3;
  DO OVER NOTE3;
    IF NOTE3= . THEN NOTE3 = .N;
    ELSE NOTE3= .C;
  END;
END;
ELSE IF C02009 IN (2,.D,.N) AND N3NMISS=0 THEN DO;
  N3=4;
  DO OVER NOTE3;
    NOTE3 = .N;
  END;
END;
ELSE IF C02009 IN (2,.D,.N) AND N3MARK>0 THEN DO;
  N3=5;
  C02009=1;
END;
ELSE IF C02009 IN (2,.D,.N) AND N3NMISS>0 AND N3MARK=0 THEN DO;
  N3=6;
  C02009=2;
  DO OVER NOTE3;
    IF NOTE3=. THEN NOTE3=.N;
    ELSE NOTE3=.C;
  END;
END;
ELSE IF C02009=.A AND N3NMISS=0 THEN DO;
  N3=7;
  C02009=.D;
  DO OVER NOTE3;
    IF NOTE3=. THEN NOTE3=.N;
    ELSE NOTE3=.C;
  END;
END;
ELSE IF C02009=. AND N3NMISS=0 THEN N3=8;

DROP N3MARK N3NMISS;

```

```

/*NOTE 4 C02013, C02014-C02017: Specialist */

ARRAY Note4 C02014-C02017;
N4MARK=0;
N4NMISS=0;

```

```

DO OVER Note4;
  IF Note4 NE . THEN N4NMISS+1 ;
  IF Note4 NOT IN (.N,.) THEN N4MARK+1;
END;

IF C02015 IN (2, .) AND N4MARK> 0 THEN
N4MARK=N4MARK-1;

      IF C02013=1 AND (N4MARK>0 OR N4NMISS=0) THEN N4=1;
ELSE IF C02013 IN (1,..A) AND (N4NMISS> 0 AND N4MARK=0 AND
C02015 IN (2, .)) THEN DO;
  N4=2;
  C02013=2;
  DO OVER Note4;
    IF Note4=. THEN Note4=.N;
    ELSE Note4=.C;
  END;
END;
ELSE IF C02013 IN (2,..A) AND N4MARK>0 THEN DO;
  C02013=1;
  N4=3;
END;
ELSE IF C02013=2 AND (N4NMISS=0 OR (N4NMISS> 0 AND N4MARK=0 AND
C02015 IN (2, .))) THEN DO;
  N4=4;
  DO OVER Note4;
    IF Note4=. THEN Note4=.N;
    ELSE Note4=.C;
  END;
END;
ELSE IF C02013=. AND N4NMISS=0 THEN N4=5;
ELSE IF C02013=.A AND N4NMISS=0 THEN DO;
  N4=6;
  C02013=2;
  DO OVER Note4;
    Note4=.N;
  END;
END;

DROP N4MARK N4NMISS;

/** Note 5 -- call during regular office hours:  C02018, C02019 **/

IF C02018 = 1 AND (C02019 GE 1 OR C02019 IN (., .A)) THEN N5=1;
ELSE IF C02018 IN (1,..A) AND C02019=.N THEN DO;
  N5=2;
  C02018=2;
  C02019=.C;
END;
ELSE IF C02018 IN (2,..A) AND (C02019 GE 1 OR C02019=.A) THEN DO;
  N5=3;
  C02018=1;
END;
ELSE IF C02018=2 AND C02019 IN (.N,.) THEN DO;
  N5=4;
  IF C02019=. THEN C02019=.N;
END;

```



```

ELSE IF C02018=. AND C02019=. THEN N5=5;
ELSE IF C02018=.A AND C02019=. THEN DO;
    N5=6;
    C02018=2;
    C02019=.N;
END;

/** Note 6 -- regular or routine health care: C02020 - C02022 **/

ARRAY NOTE6 C02021 C02022;

N6NMISS=0;
N6MARK=0;

DO OVER NOTE6;
    IF NOTE6 NE . THEN N6NMISS+1;
    IF NOTE6 NOT IN (., .N) THEN N6MARK+1;
END;

IF C02020=1 AND (N6NMISS=0 OR N6MARK>0) THEN N6=1;
ELSE IF C02020 IN (1,.,.A) AND N6NMISS> 0 AND N6MARK=0 THEN DO;
    N6=2;
    C02020=2;
    DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
END;
ELSE IF C02020 IN (2,.,.A) AND N6MARK>0 THEN DO;
    N6=3;
    C02020=1;
END;
ELSE IF C02020=2 AND (N6NMISS=0 OR (N6NMISS>0 AND N6MARK=0)) THEN DO;
    N6=4;
    DO OVER NOTE6;
        IF NOTE6 =. THEN NOTE6=.N;
        ELSE NOTE6=.C;
    END;
END;
ELSE IF C02020=. AND N6NMISS= 0 THEN N6=5;
ELSE IF C02020=.A AND N6NMISS= 0 THEN DO;
    N6=6;
    C02020 = 2;
    DO OVER NOTE6;
        NOTE6=.N;
    END;
END;

DROP N6NMISS N6MARK;

/** Note 7 - immediate care: C02023 -- C02025 **/

ARRAY NOTE7 C02024 C02025;

N7NMISS=0;
N7MARK=0;

DO OVER NOTE7;

```

```

    IF NOTE7 NE . THEN N7NMISS+1;
    IF NOTE7 NOT IN (., .N) THEN N7MARK+1;
END;

    IF C02023=1 AND (N7NMISS=0 OR N7MARK>0) THEN N7=1;
ELSE IF C02023 IN (1,.,.A) AND N7MARK=0 AND N7NMISS>0 THEN DO;
    N7=2;
    C02023=2;
    DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
        ELSE NOTE7=.C;
    END;
END;
ELSE IF C02023 IN (2,.,.A) AND N7MARK>0 THEN DO;
    N7=3;
    C02023=1;
END;
ELSE IF C02023=2 AND (N7NMISS=0 OR (N7NMISS>0 AND N7MARK=0))THEN DO;
    N7=4;
    DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
        ELSE NOTE7=.C;
    END;
END;
ELSE IF C02023=. AND N7NMISS= 0 THEN N7=5;
ELSE IF C02023=.A AND N7NMISS= 0 THEN DO;
    N7=6;
    C02023=2;
    DO OVER NOTE7;
        NOTE7=.N;
    END;
END;

DROP N7NMISS N7MARK;

/** Note 8 - well-patient care: C02026 - C02028 **/

ARRAY NOTE8 C02027 C02028;

N8NMISS=0;
N8MARK=0;

DO OVER NOTE8;
    IF NOTE8 NE . THEN N8NMISS+1;
    IF NOTE8 NOT IN (.,.N) THEN N8MARK+1;
END;

IF C02026=1 AND (N8NMISS=0 OR N8MARK>0) THEN N8=1;
ELSE IF C02026 IN (1,.,.A) AND N8MARK=0 AND N8NMISS>0 THEN DO;
    N8=2;
    C02026=2;
    DO OVER NOTE8;
        IF NOTE8=. THEN NOTE8=.N;
        ELSE NOTE8=.C;
    END;
END;
ELSE IF C02026 IN (2,.,.A) AND N8MARK>0 THEN DO;
    N8=3;

```

```

C02026=1;
END;
ELSE IF C02026=2 AND (N8NMISS=0 OR (N8NMISS>0 AND N8MARK=0)) THEN DO;
  N8=4;
  DO OVER NOTE8;
    IF NOTE8=. THEN NOTE8=.N;
    ELSE NOTE8=.C;
  END;
END;
ELSE IF C02026=. AND N8NMISS=0 THEN N8=5;
ELSE IF C02026=.A AND N8NMISS=0 THEN DO;
  C02026=2;
  N8=6;
  DO OVER NOTE8;
    NOTE8=.N;
  END;
END;

DROP N8NMISS N8MARK;

/** Note 9 - doctor's office or clinic: C02030 -- C02042 **/

ARRAY NOTE9 C02031-C02042;
ARRAY NOTE9A C02031-C02038 C02040-C02042;

N9NMISS=0;
N9MARK=0;

DO OVER NOTE9;
  IF NOTE9 NE . THEN N9NMISS+1;
END;

DO OVER NOTE9A;
  IF NOTE9A NOT IN (., .N) THEN N9MARK+1;
END;

IF C02030=1 AND (N9NMISS=0 OR (N9NMISS>0 AND N9MARK=0)) THEN DO;
  N9=1;
  DO OVER NOTE9;
    IF NOTE9=. THEN NOTE9=.N;
    ELSE NOTE9=.C;
  END;
END;
ELSE IF C02030 IN (1,.,.A) AND N9MARK>0 THEN N9=2;
ELSE IF C02030 GE 2 AND (N9NMISS=0 OR (N9MARK>0)) THEN N9=3;
ELSE IF (C02030 GE 2 OR C02030 IN (.,.A)) AND (N9NMISS>0 AND N9MARK=0)
THEN DO;
  N9=4;
  C02030 = 1;
  DO OVER NOTE9;
    IF NOTE9=. THEN NOTE9=.N;
    ELSE NOTE9=.C;
  END;
END;
ELSE IF C02030=. AND N9NMISS=0 THEN N9=5;
ELSE IF C02030=.A AND N9NMISS=0 THEN DO;
  N9=6;
  C02030=1;

```

```

DO OVER NOTE9;
  NOTE9 = .N;
END;
END;

DROP N9NMISS N9MARK;

/** NOTE10 - old enough to talk with doctors: C02039, C02040 **/
IF C02039 IN (.C,.N) AND C02040 IN (.C,.N) THEN N10=1;
ELSE IF C02039=1 AND C02040=. THEN N10=2;
ELSE IF C02039=1 AND C02040=.N THEN DO;
  C02039=.C;
  C02040=.C;
  N10=3;
END;
ELSE IF C02039 IN (1,..A) AND (C02040 GE 1 OR C02040 IN (.A,.D))
THEN DO;
  N10=4;
  C02039=1;
END;
ELSE IF C02039 IN (,..A) AND C02040=.N THEN DO;
  N10=5;
  C02039=2;
  C02040=.C;
END;
ELSE IF C02039=2 AND (C02040 GE 1 OR C02040 IN (.A, .D)) THEN DO;
  N10=6;
  C02039=1;
END;
ELSE IF C02039=2 AND (C02040=.N OR C02040=.) THEN DO;
  N10=7;
  IF C02040=. THEN C02040=.N;
  ELSE C02040=.C;
END;
ELSE IF C02039=. AND C02040=. THEN N10=8;
ELSE IF C02039=.A AND C02040=. THEN DO;
  N10=9;
  C02039=2;
  C02040=.N;
END;

/** Note 11 - send in any claims: C02044 - C02047 **/

ARRAY NOTE11 C02045 - C02047;

N11NMISS=0;
N11NOTNA=0;
N11MARK=0;

DO OVER NOTE11;
  IF NOTE11 NE . THEN N11NMISS+1;
  IF NOTE11 NE .N THEN N11NOTNA+1;
  IF NOTE11 NOT IN (., .N) THEN N11MARK+1;
END;

IF C02044=1 AND (N11NMISS=0 OR N11MARK >0) THEN N11 =1;

```

```

ELSE IF C02044 IN (1,.N,..A) AND (N11NOTNA=0 or (N11MARK=0 AND N11NMISS>0))
THEN DO;
  N11=2;
  C02044=2;
  DO OVER NOTE11;
    IF NOTE11=. THEN NOTE11=.N;
    ELSE NOTE11=.C;
  END;
END;
ELSE IF C02044 IN (2,.N,.A,..) AND N11MARK>0 THEN DO;
  C02044=1;
  N11=3;
END;
ELSE IF C02044=2 AND (N11NMISS=0 OR (N11MARK=0 AND N11NMISS>0))
THEN DO;
  N11=4;
  DO OVER NOTE11;
    IF NOTE11=. THEN NOTE11=.N;
    ELSE NOTE11=.C;
  END;
END;
ELSE IF C02044=2 AND N11NOTNA=0 THEN DO;
  N11=5;
  DO OVER NOTE11;
    NOTE11=.C;
  END;
END;
ELSE IF C02044=. AND N11NMISS=0 THEN N11=6;
ELSE IF C02044=.A AND N11NMISS=0 THEN DO;
  N11=7;
  C02044=2;
  DO OVER NOTE11;
    NOTE11=.N;
  END;
END;
ELSE IF C02044=.N and N11NMISS=0 THEN DO;
  N11=8;
  DO OVER NOTE11;
    NOTE11=.N;
  END;
END;

DROP N11NMISS N11NOTNA N11MARK;

/** Note 12 - written materials: C02048, C02049      **/

IF C02048=1 AND C02049 IN (1,2,3,..A) THEN N12=1;
ELSE IF C02048 IN (1,..A) AND C02049=.N THEN DO;
  N12=2;
  C02048=2;
  C02049=.C;
END;
ELSE IF C02048 IN (2,..A) AND C02049 IN (1,2,3,..A) THEN DO;
  C02048=1;
  N12=3;
END;
ELSE IF C02048=2 AND C02049 IN (.,.N) THEN DO;
  N12=4;

```

```

        IF C02049=. THEN C02049=.N;
        ELSE C02049=.C;
    END;
    ELSE IF C02048=. AND C02049= . THEN N12=5;
    ELSE IF C02048=.A AND C02049= . THEN DO;
        N12=6;
        C02048=2;
        C02049=.N;
    END;

/** Note 13 - customer service:  C02050, C02051  **/

IF C02050=1 AND C02051 IN (1,2,3,..A) THEN N13=1;
ELSE IF C02050 IN (1,..A) AND C02051=.N THEN DO;
    N13=2;
    C02050=2;
    C02051=.C;
END;
ELSE IF C02050 IN (2,..A) AND C02051 IN (1,2,3,.A) THEN DO;
    N13=3;
    C02050=1;
END;
ELSE IF C02050=2 AND C02051 IN (,..N) THEN DO;
    N13=4;
    IF C02051=. THEN C02051=.N;
    ELSE C02051 =.C;
END;
ELSE IF C02050=. AND C02051=. THEN N13=5;
ELSE IF C02050=.A AND C02051=. THEN DO;
    N13=6;
    C02050=2;
    C02051=.N;
END;

/* NOTE 14 C02052, C02053-C02054: Complaint or Problem*/

ARRAY NOTE14 C02053 C02054;

N14NMISS=0;
N14MARK=0;

DO OVER NOTE14;
    IF NOTE14 NE . THEN N14NMISS+1;
    IF NOTE14 NOT IN (., .N) THEN N14MARK+1;
END;

IF C02052=1 AND (N14NMISS=0 OR N14MARK>0) THEN N14=1;
ELSE IF C02052 IN (1, .. .A) AND (N14NMISS>0 AND N14MARK=0) THEN DO;
    N14=2;
    C02052=2;
    DO OVER NOTE14;
        IF NOTE14=. THEN NOTE14=.N;
        ELSE NOTE14=.C;
    END;
END;
ELSE IF C02052 IN (2,..A) AND N14MARK>0 THEN DO;
    N14=3;
    C02052=1;

```

```

END;
ELSE IF C02052=2 AND (N14NMISS=0 OR (N14NMISS>0 AND N14MARK=0)) THEN DO;
  N14=4;
  DO OVER NOTE14;
    IF NOTE14=. THEN NOTE14=.N;
    ELSE NOTE14=.C;
  END;
END;
ELSE IF C02052=. AND N14NMISS=0 THEN N14=5;
ELSE IF C02052=.A AND N14NMISS=0 THEN DO;
  N14=6;
  C02052=2;
  DO OVER NOTE14;
    NOTE14=.N;
  END;
END;
END;

DROP N14NMISS N14MARK;
;

```

```

/** Note 15 - paperwork: C02055, C02056 **/

```

```

IF C02055=1 AND C02056 IN (1,2,3,..A) THEN N15=1;
ELSE IF C02055 IN (1,..A) AND C02056=.N THEN DO;
  N15=2;
  C02055=2;
  C02056=.C;
END;
ELSE IF C02055 IN (2,..A) AND C02056 IN (1,2,3,..A) THEN DO;
  N15=3;
  C02055=1;
END;
ELSE IF C02055=2 AND C02056 IN (.N,..) THEN DO;
  N15=4;
  IF C02056=. THEN C02056=.N;
  ELSE C02056=.C;
END;
ELSE IF C02055=. AND C02056=. THEN N15=5;
ELSE IF C02055=.A AND C02056=. THEN DO;
  N15=6;
  C02055=2;
  C02056=.N;
END;

```

```

/* NOTE 16 C02063, C02064-C02065: Medicine prescribed by doctor*/

```

```

ARRAY NOTE16 C02064 C02065;

N16NMISS=0;
N16YES=0;

DO OVER NOTE16;
  IF NOTE16 NE . THEN N16NMISS+1;
  IF NOTE16=1 THEN N16YES+1;
END;

IF C02063=1 AND N16NMISS=0 THEN N16=1;

```

```

ELSE IF C02063 IN (1,..A) AND (N16NMISS>0 or N16YES=0) THEN DO;
  N16=2;
  C02063=1;
END;
ELSE IF C02063=2 AND N16YES>0 THEN DO;
  N16=3;
  C02063=1;
END;
ELSE IF C02063=2 AND (N16NMISS>0 or N16YES=0) THEN DO;
  N16=4;
  DO OVER NOTE16;
    IF NOTE16=. THEN NOTE16=.N;
    ELSE NOTE16=.C;
  END;
END;
ELSE IF C02063=. AND N16NMISS=0 THEN N16=5;
ELSE IF C02063=.A AND N16NMISS=0 THEN DO;
  N16=6;
  C02063=2;
  DO OVER NOTE16;
    NOTE16=.N;
  END;
END;

DROP N16NMISS N16YES;

/* NOTE 17 C02066, C02067-C02068: Medical, health, education service*/

ARRAY NOTE17 C02067 C02068;

N17NMISS=0;
N17YES=0;

DO OVER NOTE17;
  IF NOTE17 NE . THEN N17NMISS+1;
  IF NOTE17=1 THEN N17YES+1;
END;

IF C02066=1 AND N17NMISS=0 THEN N17=1;
ELSE IF C02066 IN (1,..A) AND (N17NMISS>0 or N17YES=0) THEN DO;
  N17=2;
  C02066=1;
END;
ELSE IF C02066=2 AND N17YES>0 THEN DO;
  N17=3;
  C02066=1;
END;
ELSE IF C02066=2 AND (N17NMISS>0 or N17YES=0) THEN DO;
  N17=4;
  DO OVER NOTE17;
    IF NOTE17=. THEN NOTE17=.N;
    ELSE NOTE17=.C;
  END;
END;
ELSE IF C02066=. AND N17NMISS=0 THEN N17=5;
ELSE IF C02066=.A AND N17NMISS=0 THEN DO;
  N17=6;

```



```

        C02066=2;
        DO OVER NOTE17;
            NOTE17=.N;
        END;
    END;

    DROP N17NMISS N17YES;

/* NOTE 18 C02069, C02070-C02071: Child limited or prevented*/

    ARRAY NOTE18 C02070 C02071;

    N18NMISS=0;
    N18YES=0;

    DO OVER NOTE18;
        IF NOTE18 NE . THEN N18NMISS+1;
        IF NOTE18=1 THEN N18YES+1;
    END;

    IF C02069=1 AND N18NMISS=0 THEN N18=1;
    ELSE IF C02069 IN (1,..A) AND (N18NMISS>0 OR N18YES=0) THEN DO;
        N18=2;
        C02069=1;
    END;
    ELSE IF C02069=2 AND N18YES>0 THEN DO;
        N18=3;
        C02069=1;
    END;
    ELSE IF C02069=2 AND (N18NMISS>0 OR N18YES=0) THEN DO;
        N18=4;
        DO OVER NOTE18;
            IF NOTE18=. THEN NOTE18=.N;
            ELSE NOTE18=.C;
        END;
    END;
    ELSE IF C02069=. AND N18NMISS=0 THEN N18=5;
    ELSE IF C02069=.A AND N18NMISS=0 THEN DO;
        N18=6;
        C02069=2;
        DO OVER NOTE18;
            NOTE18=.N;
        END;
    END;
    DROP N18NMISS N18YES;

/* NOTE 19 C02072, C02073-C02074: Special Therapy*/

    ARRAY NOTE19 C02073 C02074;

    N19NMISS=0;
    N19YES=0;

    DO OVER NOTE19;
        IF NOTE19 NE . THEN N19NMISS+1;
        IF NOTE19=1 THEN N19YES+1;
    END;

```

```

END;

IF C02072=1 AND N19NMISS=0 THEN N19=1;
ELSE IF C02072 IN (1,..A) AND (N19NMISS>0 OR N19YES=0) THEN DO;
    N19=2;
    C02072=1;
END;
ELSE IF C02072=2 AND N19YES>0 THEN DO;
    N19=3;
    C02072=1;
END;
ELSE IF C02072=2 AND (N19NMISS>0 OR N19YES=0) THEN DO;
    N19=4;
    DO OVER NOTE19;
        IF NOTE19=. THEN NOTE19=.N;
        ELSE NOTE19=.C;
    END;
END;
ELSE IF C02072=. AND N19NMISS=0 THEN N19=5;
ELSE IF C02072=.A AND N19NMISS=0 THEN DO;
    N19=6;
    C02072=2;
    DO OVER NOTE19;
        NOTE19=.N;
    END;
END;

```

```

DROP N19NMISS N19YES;

```

```

/** Note 20: C02075, C02076: Need treatment or counseling **/

```

```

IF C02075=1 THEN N20=1;
ELSE IF C02075=2 AND C02076=. THEN DO;
    N20=2;
    C02076=.N;
END;
ELSE IF C02075 IN (2,..A) AND C02076 IN (1,2,.A) THEN DO;
    N20=3;
    C02075=1;
END;
ELSE IF C02075=. AND C02076=. THEN N20=4;
ELSE IF C02075=.A AND C02076=. THEN DO;
    N20=5;
    C02075=2;
    C02076=.N;
END;

```

```

NOSURVEY:

```

```

/* missing values */

```

```

ARRAY MISS MISS_9 MISS_8 MISS_7 MISS_6 MISS_5 MISS_4 MISS_1 ;
MISS_TOT=0;
DO OVER MISS;
    MISS=0;
END;
ARRAY MISSARRAY &VARLIST2;

```

```

DO OVER MISSARAY;
  IF (MISSARAY EQ -9 ) THEN MISS_9=MISS_9 + 1;
  ELSE IF (MISSARAY EQ -8) THEN MISS_8=MISS_8 + 1;
  ELSE IF (MISSARAY EQ -7) THEN MISS_7=MISS_7 + 1;
  ELSE IF (MISSARAY EQ -6) THEN MISS_6=MISS_6 + 1;
  ELSE IF (MISSARAY EQ -5) THEN MISS_5=MISS_5 + 1;
  ELSE IF (MISSARAY EQ -4) THEN MISS_4=MISS_4 + 1;
  ELSE IF (MISSARAY EQ -1) THEN MISS_1=MISS_1 + 1;
END;

DO OVER MISS;
  MISS_TOT=MISS_TOT + MISS;
END;

OUTPUT;

RUN;

PROC CONTENTS DATA=OUT.&OUTDATA;
RUN;

PROC MEANS DATA=OUT.&OUTDATA N NMISS MIN MAX SUM MEAN;
  WHERE FLAG_FIN='1';
  VAR MISS_TOT MISS_1 MISS_4 MISS_5 MISS_6-MISS_9;
  TITLE3 'Frequency Checks - Missing Value Totals';
RUN;

PROC FREQ DATA=OUT.&OUTDATA;
  WHERE FLAG_FIN='1';
  TABLES &VARLIST1./MISSING LIST;
  TITLE3 'Frequency Checks - Formatted Response Variables'
RUN;

PROC FREQ DATA=OUT.&OUTDATA;
  WHERE FLAG_FIN='1';
  TABLES N2-N20/MISSING;
  TITLE3 'Frequency Checks - Coding Scheme Notes';
RUN;

Data old;
  set old.cschm02c;
RUN;

DATA TEST;
  set in.cschm02c;
run;

proc sort data=old;
  by mprid;
run;

proc sort data=test;
  by mprid;
run;

```

```

proc compare base=old compare=test MAXPRINT=(100,10000);
  id mprid;
  var mprid C02005 C02006 C02007 C02008 C02009 C02010 C02011 C02012 C02013
C02014 C02015 C02016
  C02017 C02030 C02031 C02032 C02033 C02034 C02035 C02036 C02037 C02038 C02039
C02040 C02041
  C02042 C02052 C02053 C02054 C02063 C02064 C02065 C02066 C02067 C02068 C02069
C02070 C02071
  C02072 C02073 C02074;
  title 'compare old to test file for note 2';
run;

%MACRO GETFREQS (TABLES, NOTE);

  PROC FREQ DATA=OUT.&OUTDATA;
    WHERE FLAG_FIN='1';
    TABLES &TABLES/MISSING LIST;
    FORMAT _ALL_ ;
    TITLE3 "CODING SCHEME FOR NOTE &NOTE";
  RUN;

%MEND GETFREQS;

%GETFREQS(N2*C02005_O*C02006_O*C02007_O*C02008_O,2);
%GETFREQS(N2*C02005*C02006*C02007*C02008,2);
%GETFREQS(N3*C02009_O*C02010_O*C02009*C02010,3);
%GETFREQS(N3*C02011_O*C02012_O*C02011*C02012,3);
%GETFREQS(N4*C02013_O*C02014_O*C02013*C02014,4);
%GETFREQS(N4*C02015_O*C02016_O*C02017_O*C02015*C02016*C02017,4);
%GETFREQS(N5*C02018_O*C02019_O*C02018*C02019,5);
%GETFREQS(N6*C02020_O*C02021_O*C02022_O*C02020*C02021*C02022,6);
%GETFREQS(N7*C02023_O*C02024_O*C02025_O*C02023*C02024*C02025,7);
%GETFREQS(N8*C02026_O*C02027_O*C02028_O*C02026*C02027*C02028,8);
%GETFREQS(N9*C02030_O*C02031_O*C02032_O*C02030*C02031*C02032,9);
%GETFREQS(N9*C02033_O*C02034_O*C02035_O*C02033*C02034*C02035,9);
%GETFREQS(N9*C02036_O*C02037_O*C02038_O*C02036*C02037*C02038,9);
%GETFREQS(N9*C02039_O*C02040_O*C02039*C02040,9);
%GETFREQS(N9*C02041_O*C02042_O*C02041*C02042,9);
%GETFREQS(N10*C02030_O*C02039_O*C02040_O*C02030*C02039*C02040,10);
%GETFREQS(N11*C02044_O*C02045_O*C02044*C02045,11);
%GETFREQS(N11*C02046_O*C02047_O*C02046*C02047,11);
%GETFREQS(N12*C02048_O*C02049_O*C02048*C02049,12);
%GETFREQS(N13*C02050_O*C02051_O*C02050*C02051,13);
%GETFREQS(N14*C02052_O*C02053_O*C02054_O*C02052*C02053*C02054,14);
%GETFREQS(N15*C02055_O*C02056_O*C02055*C02056,15);
%GETFREQS(N16*C02063_O*C02064_O*C02065_O*C02063*C02064*C02065,16);
%GETFREQS(N17*C02066_O*C02067_O*C02068_O*C02066*C02067*C02068,17);
%GETFREQS(N18*C02069_O*C02070_O*C02071_O*C02069*C02070*C02071,18);
%GETFREQS(N19*C02072_O*C02073_O*C02074_O*C02072*C02073*C02074,19);
%GETFREQS(N20*C02075_O*C02076_O*C02075*C02076,20);

/*
Data old;
  set old.cschm02c;
RUN;

```

```
DATA TEST;
  set in.cschm02c;
run;

proc sort data=old;
  by mprid;
run;

proc sort data=test;
  by mprid;
run;

proc compare base=old compare=test; *MAXPRINT=10000;
  id mprid;
  var mprid C02005 C02006 C02007 C02008 C02009 C02010 C02011 C02012 C02013
C02014 C02015 C02016
  C02017 C02030 C02031 C02032 C02033 C02034 C02035 C02036 C02037 C02038 C02039
C02040 C02041
  C02042 C02052 C02053 C02054 C02063 C02064 C02065 C02066 C02067 C02068 C02069
C02070 C02071
  C02072 C02073 C02074;
  title 'compare old to test file for note 2';
run;
*/
```

3. CREATE STATUS FLAG FOR RECORD SELECTION

```
*****
*****
*
* PROGRAM:   SELECTC.SAS
* TASK:     2002 CHILD DOD HEALTH CARE SURVEY ANALYSIS (8860-220)
* PURPOSE:  ASSIGN FINAL STATUS FOR RECORD SELECTION PURPOSES.
* WRITTEN:  12/14/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 08/31/2001 BY KEITH RATHBUN, Adapted from the Adult 2000
*           quarterly version to accomodate the Child Q3 2000 survey.
*           2) 09/16/2002 BY KEITH RATHBUN, Updated for Child Q3
*           2002 Survey. Added FLAG_FIN = 23,24 for FNSTATUS = 20.
*
* INPUTS:   1) CSCHM02C.SD2 - 2002 Q3 Child DOD Health Survey Data
*
* OUTPUTS:  1) SELECTC.SD2 - 2002 Q3 Child DOD Health Survey Data w/FNSTATUS
*
*****
* ;
LIBNAME IN      v612   "..\..\DATA\CFINAL";
LIBNAME OUT     v612   "..\..\DATA\CFINAL";
LIBNAME LIBRARY v612   "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

PROC SORT DATA=IN.CSCHM02C OUT=TEMPC1; BY MPRID; RUN;

DATA TEMPC2 OUT.DUPSC;
  SET TEMPC1;
  BY MPRID;
  *****
  * Count key variables (Total=27), 50% rule = GE 14
  *****;
  ARRAY KEYVAR C02002 C02003 C02005 C02009 C02013 C02018 C02020
               C02023 C02026 C02029 C02030 C02043 C02044 C02048
               C02050 C02052 C02055 C02057 C02062 C02078 C02079
               C02080 C02082 C02083 C02084 C02085
  ;
  KEYCOUNT = 0;
  DO I = 1 TO DIM(KEYVAR); DROP I;
    IF KEYVAR(I) NOT IN (.,.A,.O,.I,.B) THEN KEYCOUNT = KEYCOUNT + 1;
  END;
  *****
  * Count question 81 (Child's Race) - multiple response item.
  *****;
  IF C02081A NOT IN (.,.A,.O,.I,.B) OR
     C02081B NOT IN (.,.A,.O,.I,.B) OR
     C02081C NOT IN (.,.A,.O,.I,.B) OR
     C02081D NOT IN (.,.A,.O,.I,.B) OR
     C02081E NOT IN (.,.A,.O,.I,.B) THEN KEYCOUNT + 1;

  *****
  * Set flag for duplicates
  *****;
  LENGTH DUPFLAG $3;
  DUPFLAG = 'NO';
  IF NOT (FIRST.MPRID AND LAST.MPRID) THEN DUPFLAG = 'YES';
```

```

*****
* Determine final status (FNSTATUS)
*****;
FNSTATUS = 0;
IF FLAG_FIN = 1 THEN DO;
    *****
    **** APPLY THE COMPLETE QUESTIONNAIRE RULE (50% OF KEY ****
    **** VARIABLES). ****
    *****;
    IF KEYCOUNT GE 14 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 = 30;
END;
ELSE IF FLAG_FIN IN(9,17,18,19,20,22) THEN DO;
    IF FLAG_FIN IN (18,19,20) THEN DO;
        FNSTATUS = 42;
    END;
    ELSE DO;
        FNSTATUS = 41;
    END;
END;

IF DUPFLAG = 'YES' THEN OUTPUT OUT.DUPSC;
ELSE OUTPUT TEMPC2;
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.DUPSC;
BY MPRID FNSTATUS;
RUN;

DATA DEDUPED;
SET OUT.DUPSC;
BY MPRID FNSTATUS;
IF FIRST.MPRID; *KEEP only the first - most complete questionnaire;
RUN;

DATA OUT.SELECTC;
SET TEMPC2 DEDUPED;
LABEL FNSTATUS = "Final Status"
DUPFLAG = "Multiple Response Indicator"
STRATUM = "Sampling STRATUM"
KEYCOUNT = "# Key Questions Answered (Out of 27)"
;
RUN;

TITLE1 "2002 Child DOD Health Care Survey Analysis (8860-220)";

```

```
TITLE2 "Program Name: SELECTC.SAS By Keith Rathbun";
TITLE3 "Program Output: SELECTC.SD2";

PROC CONTENTS DATA=OUT.SELECTC; RUN;

PROC FREQ DATA=OUT.SELECTC;
TABLES FNSTATUS KEYCOUNT FLAG_FIN
      FNSTATUS*KEYCOUNT*FLAG_FIN
      /MISSING LIST;
RUN;
```


4. CONSTRUCTED VARIABLES FOR ANALYSIS


```
* PROGRAM:    CONVARC.SAS
* WRITTEN:    5/23/2000 BY NATALIE JUSTH
* UPDATED:    8/21/2001 BY NATALIE JUSTH FOR 2000 SURVEY
* UPDATED:    10/4/2002 BY NATALIE JUSTH FOR 2002 SURVEY
* PURPOSE:    TO CREATE 5 INDEPENDENT VARIABLES: XENRLLMT, XENR_PCM, XINS_COV,
*             XBNFGRP
*             1 INDEPENDENT VARIABLE ALREADY CREATED FROM DEERS-BFGROUPP
*             TO CREATE 24 DEPENDENT VARIABLES: KBGPRB1,
*             KBGPRB2, KMILWAT1, KCIVWAT1, KMILOFFC, KCIVOFFC, KMILOP,
*             KCIVOP, KCIVINS,
* INPUT:      ..\..\DATA\CFINAL\SELECTC.SD2
* OUTPUT:     ..\..\DATA\CFINAL\CONVARC.SD2
*****
***
*;
```

```
LIBNAME IN      v612 '..\..\DATA\CFINAL';
LIBNAME LIBRARY v612 '..\..\DATA\CFINAL\FMTLIB';
OPTIONS PS=79 LS=132 ERRORS=2 CENTER ;
TITLE1 '2002 Health Care Survey of DoD Beneficiaries Study - Child';
TITLE2 'CREATE CONSTRUCTED & OUTCOME MEASURE VARIABLES';
```

```
DATA IN.CONVARC (KEEP = XENRLLMT XENR_PCM XINS_COV REGSMPL
                     ENBGSMPL XBNFGRP
                     KMILWAT1 KCIVWAT1 KMILOFFC
                     KCIVOFFC KBGPRB1 KBGPRB2
                     KMILOP KCIVOP
                     MPRID KCIVINS)
```

```
CONVARC;
SET IN.SELECTC;
```

LABEL

```
XENRLLMT      = "Enrollment in TRICARE Prime"
XENR_PCM      = "Enrollment by PCM type"
XINS_COV      = "Insurance Coverage"
REGSMPL       = "Health Care regions "
XBNFGRP       = "Constructed Beneficiary Group"
KMILWAT1     = "Wait <=4 wks for well patient visit-Mil"
KCIVWAT1     = "Wait <=4 wks for well patient visit-Civ"
KMILOFFC     = "Office wait of >15 min-Mil"
KCIVOFFC     = "Office wait of >15 min-Civ"
KBGPRB1      = "Big problem getting referrals to splst"
KBGPRB2      = "Big problem getting necessary care"
KMILOP       = "Outpatient visits to Military facility"
KCIVOP       = "Outpatient visits to Civilian facility"
KCIVINS      = "Beneficiary covered by civilian insurance"
;
```

FORMAT

```
XENRLLMT      ENROLL.
XENR_PCM      PCM.
```

```

XINS_COV      INSURE.
REGSMPL       CREG.
XBNFGRP       XBGC_S.
KMILWAT1     HAYNN.
KCIVWAT1     HAYNN.
KMILOFFC     HAYNN.
KCIVOFFC     HAYNN.
KBGPRB1     HAYNN.
KBGPRB2     HAYNN.
KMILOP       CTIMES.
KCIVOP       CTIMES.
KCIVINS      HAYNN2_.
;

```

```

/* CREATE INDEPENDENT VARIABLES */

```

```

/* XENRLLMT--ENROLLMENT STATUS */

```

```

IF ENBGSMP1 IN (1,2,3,5,6) THEN XENRLLMT = 1;      /* Enrolled */
ELSE IF ENBGSMP1 IN (4,7) THEN XENRLLMT = 2;      /* Not Enrolled */

```

```

/* XENR_PCM--ENROLLMENT BY PCM TYPE */

```

```

IF ENBGSMP1 IN (1,3,6) THEN XENR_PCM=1;          /* 1=Enrolled - mil PCM
*/
ELSE IF ENBGSMP1 IN (2,5) THEN XENR_PCM=2;      /* 2=Enrolled - civ PCM
*/
ELSE IF ENBGSMP1 IN (4,7) THEN XENR_PCM=3;      /* 3=Not Enrolled
*/

```

```

/* XINS_COV--INSURANCE COVERAGE */

```

```

IF C02002 = 1 THEN XINS_COV = 1;                /* Prime */
ELSE IF C02002 = 3 THEN XINS_COV = 2;          /* Standard/Extra
*/
ELSE IF C02002 IN (5,6,7,8,9) THEN XINS_COV = 3; /* Other Insurance
*/

```

```

/* XBNFGRP-Beneficiary Group that excludes those 65 and over-Active Duty
and Family Members of Active Duty */
XBNFGRP=BGCSMP1;

```

```

/* KDISENRL--INTENTION TO DISNEROLL */

```

```

/* NO 2000 EQUIVALENT QUESTION */
IF C99C59 IN (4, 5) THEN KDISENRL = 1;          *YES*
ELSE IF C99C59 IN (1, 2, 3, -5) THEN KDISENRL = 2; *NO* */

```

```

/* KMILWAT1--WAIT LESS THAN 4 WEEKS FOR WELL PATIENT VISIT AT MIL FACILITIES
KCIVWAT1--WAIT LESS THAN 4 WEEKS FOR WELL PATIENT VISIT AT CIV FACILITIES*/

```

```

IF C02043 = 1 THEN DO;                          /* Military */
IF C02028 IN (1, 2, 3) THEN KMILWAT1 = 1;      /* Yes */
ELSE IF C02028 = 4 THEN KMILWAT1 = 2;          /* No */
END;
ELSE IF C02043 = 2 THEN DO;                     /* Civilian */
IF C02028 IN (1, 2, 3) THEN KCIVWAT1 = 1;      /* Yes */
ELSE IF C02028 = 4 THEN KCIVWAT1 = 2;          /* No */
END;

```

```

/* KMILOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT MILITARY FACILITES
KCIVOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT CIVILIAN FACILITES */
IF C02043 = 1 THEN DO;                                /* Military */
  IF C02033 IN (3,4) THEN KMILOFFC = 1;              /* Yes */
  ELSE IF C02033 IN (1,2) THEN KMILOFFC = 2;         /* No */
END;
ELSE IF C02043 = 2 THEN DO;                          /* Civilian */
  IF C02033 IN (3,4) THEN KCIVOFFC = 1;             /* Yes */
  ELSE IF C02033 IN (1,2) THEN KCIVOFFC = 2;         /* No */
END;

/* KBGPRB1--BIG PROBLEM GETTING REFERRALS TO SPECIALISTS */
IF C02014 =1 THEN KBGPRB1 =1;                        /* YES */
ELSE IF C02014 IN (2,3) THEN KBGPRB1 =2;            /* NO */

/* KBGPRB2--BIG PROBLEM GETTING NECESSARY CARE */
IF C02031 =1 THEN KBGPRB2 =1;                        /* YES */
ELSE IF C02031 IN (2,3) THEN KBGPRB2 =2;           /* NO */

/* KMILOP--OUTPATIENT VISITS TO MILITARY FACILITY
KCIVOP--OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF C02043 = 1 THEN KMILOP=C02030;
ELSE IF (C02043=. AND C02030=.) THEN KMILOP=.;
ELSE KMILOP = 1 ;
IF C02043 = 2 THEN KCIVOP=C02030;
ELSE IF (C02043=. AND C02030=.) THEN KCIVOP=.;
ELSE KCIVOP = 1 ;

/* KCIVINS--IS BENEFICIARY COVERED BY CIVILIAN INSURANCE */
IF (C02004C=1 OR C02004E=1 OR C02004F=1) THEN KCIVINS=1; /* YES */
ELSE KCIVINS=2;                                         /* NO */

RUN;

/* CHECK NEW 2002 VARIABLES */
PROC FREQ DATA=CONVARC;
TABLES XENRLLMT XENR_PCM XINS_COV XBNFGRP REGSMPL
      KBGPRB1 KBGPRB2
      KMILWAT1 KCIVWAT1 KMILOFFC KCIVOFFC
      KMILOP KCIVOP KCIVINS
      / MISSING LIST;
TITLE3 'ONE WAY FREQUENCIES ON ALL NEW 2002 CONSTRUCTED VARIABLES';
RUN;

PROC FREQ DATA=CONVARC;
TABLES ENBGSMPL*XENRLLMT
      ENBGSMPL*XENR_PCM
      XENRLLMT*C02002*XINS_COV
      REGSMPL
      BGCSMPL*XBNFGRP
      C02043 *C02028 *KMILWAT1*KCIVWAT1
      C02043 *C02033 *KMILOFFC*KCIVOFFC
      C02014 *KBGPRB1
      C02031 *KBGPRB2
      C02043 *C02030 *KMILOP

```

```
C02043 *C02030 *KCIVOP
C02004E*C02004F*KCIVINS
/ MISSING LIST;
TITLE3 'CROSSTABS ON ALL NEW VARIABLES';
RUN;
```

```
PROC FREQ DATA=CONVARC;
  tables REGSMPL
  / MISSING LIST;
  format _all_;
run;
```

```
PROC CONTENTS DATA =IN.CONVARC;
RUN;
```

5. MERGE CONSTRUCTED VARIABLES ONTO DATA FILE

```
* PROGRAM:    MERGE.SAS
* WRITTEN:    5/23/00 BY NATALIE JUSTH
* UPDATED:    8/23/01 BY NATALIE JUSTH FOR 2000 SURVEY
* UPDATED:    10/4/02 BY NATALIE JUSTH FOR 2002 SURVEY
* 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) NRC variables
*                 6) recoded questionnaire responses
*                 7) coding scheme flags
*                 8) constructed variables
*                 9) weights (NOT AVAILABLE FOR PRELIMINARY DATA)
* INPUT:      ..\..\DATA\CFINAL\SELECTC.SD2
*             ..\..\DATA\CFINAL\CONVARC.SD2
* OUTPUT:     ..\..\Q3_2000\DATA\CFINAL\MERGE.C.SD2
*****
***
* ;
```

```
LIBNAME IN v612 '..\..\DATA\CFINAL';
LIBNAME OUT v612 '..\..\DATA\CFINAL';
LIBNAME LIBRARY v612 '..\..\DATA\CFINAL\FMTLIB';
OPTIONS PS=75 LS=111 ERRORS=2 COMPRESS=YES;
```

```
PROC SORT DATA=IN.SELECTC OUT=SELECTC;
BY MPRID;
RUN;
```

```
PROC SORT DATA=IN.CONVARC OUT=CONVARC;
BY MPRID;
RUN;
```

```
DATA MERGEC(DROP=C02001_O C02002_O C02003_O C02004AO C02004BO C02004CO C02004DO
C02004EO C02004FO C02004GO C02004HO C02004IO C02005_O C02006_O
C02007_O C02008_O
C02009_O C02010_O C02011_O C02012_O C02013_O C02014_O C02015_O
C02016_O
C02017_O C02018_O C02019_O C02020_O C02021_O C02022_O C02023_O
C02024_O
C02025_O C02026_O C02027_O C02028_O C02029_O C02030_O C02031_O
C02032_O
C02033_O C02034_O C02035_O C02036_O C02037_O C02038_O C02039_O
C02040_O
C02041_O C02042_O C02043_O C02044_O C02045_O C02046_O C02047_O
C02048_O
C02049_O C02050_O C02051_O C02052_O C02053_O C02054_O C02055_O
C02056_O
```

```

C02057_O C02058_O C02059_O C02060_O C02061_O C02062_O C02063_O
C02064_O C02065_O C02066_O C02067_O C02068_O C02069_O C02070_O
C02071_O C02072_O C02073_O C02074_O C02075_O C02076_O C02077_O
C02078_O C02079_O C02080_O C02081AO C02081BO C02081CO C02081DO
C02081EO
C02082_O C02083_O C02084_O C02085_O);
MERGE SELECTC(in=hcsdb) CONVARC ;
BY MPRID;
if hcsdb;

FORMAT
AGESMPL          AGESMPL.
BGCSMPL          XBGC_S.
ENBGSMPL        $ENBGS.
SUPREG          SUPERREG.
MRTLSTAT        $MSTATUS.
RACEETHN        $RACECD.
PCM             $PCM.
LEGDDSCD        $DDSFMT.
PNLCATCD        $PNLCAT.
MBRRELCD        $MBRREL.
DBENCAT         $BENCAT.
DMEDELG         $MEDELG.
DSPONSVC        $SPONSVC.
MEDTYPE         $MEDTYP.
LEGDDSCD        $DDSFMT.
FLAG_FIN        $FINAL.
CONUS           CONUSMHS.
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.
REGSMPL         CREGSMPL.
MPCSMPL         MPCSMPL.
SVCSMPL         SVCSMPL.
SEXSMPL         HASEX.
ENLSMPL         ENLSMP.
FNSTATUS        FNSTATS.
DHSRGN         $DHSRGN.
;

RUN;

DATA OUT.MERGE;

LENGTH

MPRID           $ 8           /* ID           */
MPCSMPL         5           /* sampling variable */
SVCSMPL         5           /* sampling variable */
SEXSMPL         5           /* sampling variable */
AGESMPL         8           /* sampling variable */

```

BGCSMPL	8	/* sampling variable */	
REGSMPL	3	/* sampling variable */	
ENBGSMPL	\$ 2	/* sampling variable */	
STRATUM	\$ 3	/* sampling variable */	
SUPREG	8	/* sampling variable */	
MRTLSTAT	\$ 1	/* DEERS variable	*/
RACEETHN	\$ 1	/* DEERS variable	*/
DAGEQY	\$ 3	/* DEERS variable	*/
FIELDAGE	\$ 3	/* DEERS variable	*/
PCM	\$ 3	/* DEERS variable	*/
LEGDDSCD	\$ 2	/* DEERS variable	*/
PNLCATCD	\$ 1	/* DEERS variable	*/
MBRRELCD	\$ 1	/* DEERS variable	*/
DBENCAT	\$ 3	/* DEERS variable	*/
DMEDELG	\$ 1	/* DEERS variable	*/
DSPONSVC	\$ 1	/* DEERS variable	*/
MEDTYPE	\$ 1	/* DEERS variable	*/
PATCAT	\$ 7	/* DEERS variable	*/
ENRID	\$ 4	/* DEERS variable	*/
DCATCH	\$ 4	/* DEERS variable	*/
ULOCDMIS	\$ 4	/* DEERS variable	*/
DHSRGN	\$ 2	/* DEERS variable	*/
ENLSMPL	8	/* post-stratification variable	*/
REGSMPL	5	/* post-stratification variable	*/
FNSTATUS	8	/* post-stratification variable	*/
KEYCOUNT	8	/* post-stratification variable	*/
POSTSTR	\$ 3	/* post-stratification variable	*/
C02001	4	/* questionnaire	*/
C02002	4	/* questionnaire	*/
C02003	4	/* questionnaire	*/
C02004A	4	/* questionnaire	*/
C02004B	4	/* questionnaire	*/
C02004C	4	/* questionnaire	*/
C02004D	4	/* questionnaire	*/
C02004E	4	/* questionnaire	*/
C02004F	4	/* questionnaire	*/
C02004G	4	/* questionnaire	*/
C02004H	4	/* questionnaire	*/
C02004I	4	/* questionnaire	*/
C02005	4	/* questionnaire	*/
C02006	4	/* questionnaire	*/
C02007	4	/* questionnaire	*/
C02008	4	/* questionnaire	*/
C02009	4	/* questionnaire	*/
C02010	4	/* questionnaire	*/
C02011	4	/* questionnaire	*/
C02012	4	/* questionnaire	*/
C02013	4	/* questionnaire	*/
C02014	4	/* questionnaire	*/
C02015	4	/* questionnaire	*/
C02016	4	/* questionnaire	*/
C02017	4	/* questionnaire	*/
C02018	4	/* questionnaire	*/
C02019	4	/* questionnaire	*/
C02020	4	/* questionnaire	*/

C02021	4	/* questionnaire	*/
C02022	4	/* questionnaire	*/
C02023	4	/* questionnaire	*/
C02024	4	/* questionnaire	*/
C02025	4	/* questionnaire	*/
C02026	4	/* questionnaire	*/
C02027	4	/* questionnaire	*/
C02028	4	/* questionnaire	*/
C02029	4	/* questionnaire	*/
C02030	4	/* questionnaire	*/
C02031	4	/* questionnaire	*/
C02032	4	/* questionnaire	*/
C02033	4	/* questionnaire	*/
C02034	4	/* questionnaire	*/
C02035	4	/* questionnaire	*/
C02036	4	/* questionnaire	*/
C02037	4	/* questionnaire	*/
C02038	4	/* questionnaire	*/
C02039	4	/* questionnaire	*/
C02040	4	/* questionnaire	*/
C02041	4	/* questionnaire	*/
C02042	4	/* questionnaire	*/
C02043	4	/* questionnaire	*/
C02044	4	/* questionnaire	*/
C02045	4	/* questionnaire	*/
C02046	4	/* questionnaire	*/
C02047	4	/* questionnaire	*/
C02048	4	/* questionnaire	*/
C02049	4	/* questionnaire	*/
C02050	4	/* questionnaire	*/
C02051	4	/* questionnaire	*/
C02052	4	/* questionnaire	*/
C02053	4	/* questionnaire	*/
C02054	4	/* questionnaire	*/
C02055	4	/* questionnaire	*/
C02056	4	/* questionnaire	*/
C02057	4	/* questionnaire	*/
C02058	4	/* questionnaire	*/
C02059	4	/* questionnaire	*/
C02060	4	/* questionnaire	*/
C02061	4	/* questionnaire	*/
C02062	4	/* questionnaire	*/
C02063	4	/* questionnaire	*/
C02064	4	/* questionnaire	*/
C02065	4	/* questionnaire	*/
C02066	4	/* questionnaire	*/
C02067	4	/* questionnaire	*/
C02068	4	/* questionnaire	*/
C02069	4	/* questionnaire	*/
C02070	4	/* questionnaire	*/
C02071	4	/* questionnaire	*/
C02072	4	/* questionnaire	*/
C02073	4	/* questionnaire	*/
C02074	4	/* questionnaire	*/
C02075	4	/* questionnaire	*/
C02076	4	/* questionnaire	*/
C02077	4	/* questionnaire	*/
C02078	4	/* questionnaire	*/

C02079	4	/* questionnaire	*/
C02080	4	/* questionnaire	*/
C02081A	4	/* questionnaire	*/
C02081B	4	/* questionnaire	*/
C02081C	4	/* questionnaire	*/
C02081D	4	/* questionnaire	*/
C02081E	4	/* questionnaire	*/
C02082	4	/* questionnaire	*/
C02083	4	/* questionnaire	*/
C02084	4	/* questionnaire	*/
C02085	4	/* questionnaire	*/
FLAG_FIN	\$ 4	/* NRC variable	*/
DUPFLAG	\$ 3	/* NRC variable	*/
N2	4	/* CS flag variable	*/
N3	4	/* CS flag variable	*/
N4	4	/* CS flag variable	*/
N5	4	/* CS flag variable	*/
N6	8	/* CS flag variable	*/
N7	4	/* CS flag variable	*/
N8	4	/* CS flag variable	*/
N9	4	/* CS flag variable	*/
N10	4	/* CS flag variable	*/
N11	4	/* CS flag variable	*/
N12	4	/* CS flag variable	*/
N13	4	/* CS flag variable	*/
N14	4	/* CS flag variable	*/
N15	4	/* CS flag variable	*/
N16	4	/* CS flag variable	*/
N17	4	/* CS flag variable	*/
N18	4	/* CS flag variable	*/
N19	4	/* CS flag variable	*/
N20	4	/* 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	*/
CONUS	3	/* constructed	*/
XENRLLMT	8	/* constructed	*/
XENR_PCM	8	/* constructed	*/
XINS_COV	8	/* constructed	*/
XBNFGRP	8	/* constructed	*/
KMILWAT1	8	/* constructed	*/
KCIVWAT1	8	/* constructed	*/
KMILOFFC	8	/* constructed	*/
KCIVOFFC	8	/* constructed	*/
KBGPRB1	8	/* constructed	*/
KBGPRB2	8	/* constructed	*/
KMILOP	8	/* constructed	*/
KCIVOP	8	/* constructed	*/
KCIVINS	8	/* constructed	*/

```
;  
SET MERGEC;  
  
RUN;  
  
PROC CONTENTS DATA=OUT.MERGEC POSITION;  
RUN;
```

6. RESPONSE RATE CALCULATIONS

*
* PROGRAM: TABLE02.SAS
* TASK: 2002 DOD HEALTH CARE SURVEY ANALYSIS (8860-210)
* 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
* INCLUDES: 1) TABLE02.IN1
* 2) TABLE02.IN2

*****;

*LIBRARIES;

*LIBNAME IN1 "D:\projects\8687-610\y2002q1\data";
*LIBNAME IN2 "D:\projects\8687-610\y2002q2\sampling\data";
*LIBNAME DODIN2 "F:\Q2_2002\Data\Afinal";
LIBNAME IN3 v8 "D:\projects\8687-610\y2002q3\Sampling_child\data";
LIBNAME DODIN3 v6 "F:\DOD\Q3_2002\Data\Cfinal";
*LIBNAME IN4 "D:\esther\q4_2000\res_rate\data";
*LIBNAME IN5 "D:\esther\q5_2000\res_rate\data";

OPTIONS PS=79 LS=132 COMPRESS=YES ERRORS=1 NOCENTER NOFMterr /*mprint mlogic*/;

*LIBNAME LIBRARY &LIB;

%let period= dod\q3_2002_c;

%macro doit;
%do qtr=3 %to 3;

* Merge repwt and selectc files to add ebg_com
*****;

data IN&qtr..newmerge;
set DODIN&qtr..selectc;
format _all_;
run;

%MACRO PROCESS(INPT,FORM,LIB);

* Process OVERALL Summary of response rates

;

DATA _NULL_;

```

SET IN&qtr..&INPT END=FINISHED;
format _all_;
IF _N_ = 1 THEN DO;
  SN    = 0;
  SN1   = 0;
  SN11  = 0;
  SN12  = 0;
  SN2   = 0;
  SN3   = 0;
  SN4   = 0;
  SN41  = 0;
  SN42  = 0;
  WN    = 0;
  WN1   = 0;
  WN11  = 0;
  WN12  = 0;
  WN2   = 0;
  WN3   = 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 = 30 THEN DO;
  SN3 + 1;
  WN3 + 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
  SN3
  SN4
  SN41
  SN42
  WN
  WN1
  WN11
  WN12
  WN2
  WN3
  WN4
  WN41
  WN42
;

IF FINISHED THEN GO TO FINISHED;

RETURN;

FINISHED:
FILE "D:\esther\Q&qtr._2002_C\res_rate\TABLE02&FORM..OUT" LRECL=132;
PUT; PUT;
PUT @001 "TABLE 2: OVERALL RESPONSE RATES SUMMARY";
PUT @001 "09-18-2002, TASK: 8860-210";
PUT;
PUT "SUMMARY OF GROUP COUNTS: FORM &FORM";
PUT;
PUT @050 "UNWEIGHTED COUNT"
  @100 "WEIGHTED COUNT"
;
PUT @040 'FLR'
  @050 'FCR'
  @060 'FRR'
  @070 'POP'
  @090 'FLR'
  @100 'FCR'

```

```

        @110 'FRR'
        @120 'POP'
    ;
    %INCLUDE "D:\esther\q&qtr._2002\WEIGHTING\TABLE02.IN2";
RUN;
%MEND PROCESS;

*****
* Process Single Domain where domain1 is the variable of interest
*****;

%MACRO PROCESS1(DOMAIN1,INPT,FORM,LIB);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1; RUN;

DATA _NULL_;
    SET &INPT;
    format _all_;
    BY &DOMAIN1;
    FILE "D:\esther\q&qtr._2002_c\res_rate\&DOMAIN1..OUT" LRECL=132;
    LENGTH VARNAME1 $8;
    LENGTH VARIABLE $30;
    CALL VNAME(&DOMAIN1,VARNAME1);
    VARIABLE = VARNAME1;
    %INCLUDE "D:\esther\q&qtr._2002\WEIGHTING\TABLE02.IN1";
    IF LAST.&DOMAIN1 THEN DO;
        PUT @001 &DOMAIN1 @;
        %INCLUDE "D:\esther\q&qtr._2002\WEIGHTING\TABLE02.IN2";
    END; * DOMAIN;
RUN;
%MEND PROCESS1;

*****
* Process Double Domain where domain1/domain2 are the variables of interest
*****;

%MACRO PROCESS2(DOMAIN1,DOMAIN2,INPT,FORM,LIB);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1 &DOMAIN2; RUN;

DATA _NULL_;
    format _all_;
    SET &INPT;
    BY &DOMAIN1 &DOMAIN2;
    FILE "D:\esther\q&qtr._2002\res_rate\&DOMAIN1&DOMAIN2..OUT" LRECL=132;
    LENGTH VARNAME1 $8;
    LENGTH VARNAME2 $8;
    LENGTH VARIABLE $30;
    CALL VNAME(&DOMAIN1,VARNAME1);
    CALL VNAME(&DOMAIN2,VARNAME2);
    VARIABLE = VARNAME1 || " " || VARNAME2;
    %INCLUDE "D:\esther\q&qtr._2002\WEIGHTING\TABLE02.IN1";
    IF LAST.&DOMAIN2 THEN DO;

```

```

    PUT @001 &DOMAIN1 @;
    PUT @025 &DOMAIN2 @;
    %INCLUDE "D:\esther\q&qtr._2002\WEIGHTING\TABLE02.IN2";
    SN      = 0;
    SN1     = 0;
    SN11    = 0;
    SN12    = 0;
    SN2     = 0;
    SN3     = 0;
    SN4     = 0;
    SN41    = 0;
    SN42    = 0;
    WN      = 0;
    WN1     = 0;
    WN11    = 0;
    WN12    = 0;
    WN2     = 0;
    WN3     = 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,LIB);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1 &DOMAIN2 &DOMAIN3; RUN;

DATA _NULL_;
  format _all_;
  SET &INPT;
  BY &DOMAIN1 &DOMAIN2 &DOMAIN3;
  FILE "D:\esther\q&qtr._2002\res_rate\&DOMAIN1&DOMAIN2&DOMAIN3..OUT"
LRECL=132;
  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 "D:\esther\q&qtr._2002\WEIGHTING\TABLE02.IN1";
  IF LAST.&DOMAIN3 THEN DO;
    PUT @001 &DOMAIN1 @;
    PUT @015 &DOMAIN2 @;
    PUT @035 &DOMAIN3 @;
    %INCLUDE "D:\esther\q&qtr._2002\WEIGHTING\TABLE02.IN2";
    SN      = 0;
    SN1     = 0;
    SN11    = 0;

```

```

SN12 = 0;
SN2 = 0;
SN3 = 0;
SN4 = 0;
SN41 = 0;
SN42 = 0;
WN = 0;
WN1 = 0;
WN11 = 0;
WN12 = 0;
WN2 = 0;
WN3 = 0;
WN4 = 0;
WN41 = 0;
WN42 = 0;
END; * DOMAIN;
RUN;

%MEND PROCESS3;

*****
* PROCESS OVERALL RESPONSE RATE TABULATION - FORM A
*****
;
%PROCESS(newmerge, A, "J:\&PERIOD\DATA\AFINAL\FMTLIB");

*****
* PROCESS SINGLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****
;
%PROCESS1(xregion, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(conus, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(sexsmp1, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(raceethn, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(ebg_com, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(enbgsmpl, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(cacsmpl, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS1(patcat, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");

*****
* PROCESS DOUBLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****
;
%PROCESS2(patcat, svcsmp1, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS2(patcat, sexsmp1, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
%PROCESS2(patcat, raceethn, selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");

```



```
*%PROCESS2(xregion, cacsmp1,selectc, "FORM A",
           "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*****
* PROCESS TRIPLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****
;
*%PROCESS3(XXXXXXXX, XXXXXXXXX, XXXXXXXXX, XXXXXXXXX, "FORM A",
           *"D:\KEITH\&PERIOD\DATA\FMTLIB");

           %end; *end of do for each quarter;
           %mend doit;
           %doit;

run;
```

7. DEVELOPMENT OF WEIGHTS

```
*****
*****
***
*** Project:          DoD Child Sampling - Nonresponse adjustments
***
*** Program: D:\projects\8687-610\y2002q3\Weighting_child\adjwt.SAS,
***
*** TASK:           2002 CHILD DOD HEALTH CARE SURVEY
*** PURPOSE:        CALCULATE THE FINAL WEIGHT.
***                 WEIGHTS FOR DOD CHILD SURVEY.
***                 DOD HEALTH CARE SURVEY FILE.
***                 REQUESTED BY DON JANG.
*** WRITTEN:        11/09/1999 BY KEITH RATHBUN
*** Updated:        09/16/2002 by Esther Friedman
***
*** INPUTS:         selectc.SD2
***                 FRAMEC.SD2
***
*** OUTPUTS:        adjwt.SD2
***                 adjwtCHK.TXT
***
*****
* ;
*** libname for the input and output data ***;
LIBNAME IN_F v6 "D:\projects\8687-610\y2002q3\Sampling_child\data";
LIBNAME IN v6 "F:\DOD\Q3_2002\Data\Cfinal";
LIBNAME OUT v6 "D:\projects\8687-610\y2002q3\Weighting_child\data";

%include "c:\myfiles\macros\design_effects_unequal_weights.sas";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER /*mprint mlogic symbolgen*/;

title1 'Child DoD Survey of Health Beneficiaries';
title2 'Calculate the Final Weights';
*****
* Calculate final weight based on user-specified domains.
*****;

%MACRO PROCESS(DOMAIN,FORM,INPT);

    *** Initial Information. ***;

    title5 'FRAMEC.SD2 Count';

    proc freq data=in_f.framec;
    table enlsmpl agesmpl supreg/ list missing;
    run;

    title5 'selectc.SD2 Counts Using BWT as the Weight';

    proc freq data=in.&inpt.;
    table enlsmpl agesmpl supreg fnstatus / list missing;
    weight BWT;
    run;

    title5 'selectc.SD2 Counts';
```

```

proc freq data=in.&inpt.;
table enlsmpl agesmpl supreg fnstatus / list missing;
run;

*** Create the adjustment cells for nonresponse. ***;

data &inpt. (KEEP = MPRID FNSTATUS BWT enlsmpl supreg sexsmpl svcsmpl
agesmpl stratum poststr);;
set in.&inpt.; /*%include "D:\Projects\8687-
610\Y2002C\Weighting\adj_coll.inc"*/;
format _all_;
run;

PROC SORT DATA=&inpt. OUT=&INPT.;
BY &DOMAIN.;
RUN;

*****
* Calculate adjustment factor A1 for each cell.
* This is the Eligibility Determination adjustment.
*****;
DATA CELLSA1 (KEEP=SUMBWT SUMG1-SUMG3 A1 CELLCNT cntg1-cntg3 &domain.)
MPRIDS1 (KEEP=MPRID FNSTATUS BWT &DOMAIN. enlsmpl supreg agesmpl)
;
SET &INPT.;
BY &DOMAIN;

IF FIRST.&DOMAIN. 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 (20,30) 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.&DOMAIN. THEN DO;
  A1 = SUMBWT/(SUMG1 + SUMG2);
  OUTPUT CELLSA1;
END;

OUTPUT MPRIDSA1;

RUN;

title5 'Check for CELLSA1 Data Set';

proc print data=cellsal;
var stratum cntg1-cntg3 cellcnt sumg1-sumg3 sumBWT a1;
sum cellcnt cntg1 cntg2 cntg3 sumBWT sumg1 sumg2 sumg3;
run;

proc print data=cellsal;
where ( a1 > 3.25 ) or ( cntg1 + cntg2 < 10 );
var stratum cntg1-cntg3 cellcnt sumg1-sumg3 sumBWT a1;
sum cellcnt cntg1 cntg2 cntg3 sumBWT sumg1 sumg2 sumg3;
run;

proc univariate data=cellsal normal plot;
var a1;
run;

proc sort data=mpridsal;
by &domain.;
run;

proc sort data=cellsal;
by &domain.;
run;

data adj_one;
merge mpridsal cellsal;
by &domain.;

```

```

if fnstatus in (11,12,20,30) then adj1 = a1;
  else adj1 = 0;
adj_wt1 = adj1 * BWT;
run;

title5 'Checks for ADJ_ONE Data Set';

proc freq data=adj_one;
table stratum*fnstatus*adj1 / list missing;
run;

proc means data=adj_one n sum NOPRINT;
class fnstatus;
var adj_wt1;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

proc means data=adj_one n sum NOPRINT;
class enlsmpl;
var adj_wt1;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
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 &domain.;
run;

DATA CELLSA2 (KEEP= &domain. NUMER DENOM numercnt denomcnt A2);
  set adj_one ;
  BY &domain.;

  IF FIRST.&domain. 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 + BWT*A1;
  numercnt + 1;
end;

IF FNSTATUS = 11 THEN
do;
  DENOM + BWT*A1;
  denomcnt + 1;
end;

IF LAST.&domain. THEN DO;
  A2 = NUMER/DENOM;
  OUTPUT CELLSA2;
END;

RUN;

title5 'Check for CELLSA2 Data Set';

proc print data=cellsa2;
var &domain. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

proc print data=cellsa2;
where ( a2 > 3.25 ) or ( denomcnt < 10 );
var &domain. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

proc univariate data=cellsa2 normal plot;
var a2;
run;

proc sort data=adj_one;
by &domain.;
run;

proc sort data=cellsa2;
by &domain.;
run;

data adj_two;
merge adj_one cellsa2;
by &domain.;
if fnstatus = 11 then adj2 = a2;
  else if fnstatus = 30 then adj2 = 1;
  else adj2 = 0;
adjwt = adj2 * adj_wt1;
label adjwt = 'Adjusted Weight';
KEEP MPRID fnstatus adj1 adj2 adjwt stratum enlsmpl;
run;

title5 'Check for ADJ_TWO Data Set';

proc freq data=adj_two;
table stratum*fnstatus*adj2 / list missing;

```

```

run;

proc means data=adj_two n sum NOPRINT;
class fnstatus;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

proc means data=adj_two n sum NOPRINT;
class enlsmpl;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

data adj_two;
set adj_two(drop=fnstatus enlsmpl);
run;

*****
* Sort the original data
*****;

PROC SORT DATA=&INPT. OUT=&INPT.;
BY MPRID;
RUN;

*****
* Sort the ADJ_TWO data set
*****;

PROC SORT DATA=adj_two;
BY MPRID;
RUN;

*****
* Append final weight variable (adjwt)
*****;
DATA OUT.adjwt;
MERGE adj_two &INPT.;
BY MPRID;
RUN;

title5 'Checks for adjwt Data Set';

proc means data=out.adjwt n sum NOPRINT;
class fnstatus;
var adjwt;
output out=print sum=sum;

```

```

run;

Proc print data=print;
sum sum;
where _type_=1;
run;

proc means data=out.adjwt n sum;
class stratum;
var BWT adjwt;
run;

proc sort data=out.adjwt out=chk;
by stratum fnstatus;
run;

data sub_chk;
set chk(keep = stratum fnstatus BWT adj1 adj2 adjwt);
by stratum fnstatus;
prodadj1 = 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;
var stratum fnstatus BWT adj1 adj2 prodadj1 adjwt cellcnt sumadjwt;
sum cellcnt sumadjwt;
run;

proc univariate data=sub_chk normal plot;
where prodadj1 ne 0;
var prodadj1;
run;

proc univariate data=sub_chk normal plot;
where adjwt ne 0;
var adjwt;
run;

*****;
*** Calculate the Design Effects ***;
*****;
*completes only;
data adjwt_completes;
set out.adjwt;
where fnstatus=11;
run;

```



```

%design_effects_unequal_weights ( adjwt_completes, supreg, adjwt, deff_overall,
deff_sup );
%design_effects_unequal_weights ( adjwt_completes, agesmpl , adjwt,
deff_overall, deff_age );
%design_effects_unequal_weights ( adjwt_completes, enlsmpl, adjwt,
deff_overall, deff_enl );
%design_effects_unequal_weights ( adjwt_completes, svcsmpl, adjwt,
deff_overall, deff_svc );
%design_effects_unequal_weights ( adjwt_completes, sexsmpl, adjwt,
deff_overall, deff_sex );

proc print data = deff_overall;
title4 "design effect overall";
run;

proc print data= deff_sup;
title4 "design effect by supreg";
run;

proc print data= deff_age;
title4 "design effect by agesmpl";
run;

proc print data= deff_enl;
title4 "design effect by enlsmpl";
run;

proc print data= deff_svc;
title4 "design effect by svcsmple";
run;

proc print data= deff_sex;
title4 "design effect by sexsmpl";
run;

%MEND PROCESS;

*****
* Calculate final weight based on user-specified parameters.
*****;

%PROCESS(stratum,c,selectc);

RUN;

```

8. POST STRATIFICATION ADJUSTMENTS

```
*****
*****
*** Project:          DoD Child Sampling - Poststratification adjustments
***
*** Program: d:\projects\8687-610\Y2002C\weighting\poststr.SAS,
***
*** TASK:           2002 CHILD DOD HEALTH CARE SURVEY
*** PURPOSE:       BUILD AND ASSIGN FINAL WEIGHTS - POST STRATIFICATION - Child
Survey.
***               WEIGHTS FOR CHILD DOD SURVEY.
***               DOD HEALTH CARE SURVEY FILE.
***               REQUESTED BY DON JANG.
*** WRITTEN:       12/30/99 BY KEITH RATHBUN
*** Updated:       10/03/2001 by Nancy Clusen
***
*** INPUTS:        adjwt.SD2 - Adjusted Weights file - Form C
***
*** OUTPUTS        POST_WT.SD2 - Final Weights file - Form C
***
***
*****
* ;

*** libname for the frame ***;
libname in_f v6 "D:\projects\8687-610\y2002q3\Sampling_child\data";

*** libname for the count***;
libname in_c v8 "D:\projects\8687-610\y2002q3\Sampling_child\data";

*** libname for the input and output data ***;
LIBNAME IN  "D:\projects\8687-610\y2002q3\Weighting_child\data";
LIBNAME OUT "D:\projects\8687-610\y2002q3\Weighting_child\data";

%include "c:\myfiles\macros\design_effects_unequal_weights.sas";

*** libname for the format library ***;
*libname library "j:\dod\q3_2002\data\cfinal\fmtlib";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER mprint mlogic symbolgen;

title1 'Child DoD Survey of Health Beneficiaries';
title2 'Calculate the Poststratified Weights';

%MACRO PROCESS(DOMAIN,FORM,INPT);

*****
* Sort the adjusted weights file by user-specified domains
*****;
PROC SORT DATA=IN.&inpt.
      OUT=ADJWT(KEEP=FNSTATUS MPRID ADJWT &DOMAIN);
      BY &DOMAIN;
RUN;

*****
* Assign cell names and calculate the sum of ADJWT
*****;
DATA CELLS (KEEP=SUMADJWT SUMFN11 &DOMAIN)
```

```

    MPRIDS (KEEP=MPRID FNSTATUS ADJWT &DOMAIN)
;
SET &inpt.;
BY &DOMAIN;

IF FIRST.&DOMAIN THEN DO;
    SUMADJWT = 0.0;
    SUMFN11 = 0;
END;

*****
* Accumulate sum of adjusted weight
*****;
SUMADJWT + ADJWT;

*****
* COUNT the FNSTATUS = 11 within each DOMAIN
*****;
IF FNSTATUS = 11 THEN SUMFN11 + 1;

RETAIN SUMADJWT SUMFN11;

IF LAST.&DOMAIN THEN DO;
    OUTPUT CELLS;
    SUMADJWT = 0.0;
    SUMFN11 = 0;
END; * DOMAIN;
OUTPUT MPRIDS;
RUN;

*****
* Merge the population counts and calculate the adjusted population (AP)
*****;
DATA recountc;
SET IN_C.recountc (KEEP = stratum PSUM0);
    POSTSTR = stratum;
    POP = PSUM0;
RUN;

PROC SORT DATA=recountc OUT=recountc; BY &DOMAIN; RUN;

DATA AP;
    MERGE recountc CELLS;
    BY &DOMAIN;
    AP = POP/SUMADJWT;
RUN;

*****
* Merge the adjusted population and calculate the final weight (WRWT)
*****;
DATA POST_WT;
    MERGE AP(IN=IN1) MPRIDS(IN=IN2);
    BY &DOMAIN;

    IF IN2 THEN DO;
        WRWT = AP*ADJWT;
        OUTPUT;
    END;

```

```

LABEL WRWT      = 'Final Weight';
LABEL AP        = 'Poststratification Adjustment Factor';
LABEL POP       = 'DEERS population by CELLNAME for weights';
LABEL SUMFN11   = 'COUNT of FNSTATUS=11 within CELLNAME';

KEEP FNSTATUS WRWT ADJWT AP MPRID POP SUMFN11 &DOMAIN;
RUN;

PROC MEANS DATA=POST_WT NOPRINT;
VAR POP WRWT AP SUMFN11;
BY &DOMAIN;
OUTPUT OUT=STATS(KEEP=POSTSTR DEERSPOP PSA_CNT AP_MEAN FN11CNT )
          SUM= DUMMY1   PSA_CNT DUMMY2 DUMMY3
          MEAN=DUMMY4   DUMMY5 AP_MEAN DUMMY6
          MAX= DEERSPOP DUMMY7 DUMMY8 FN11CNT;
RUN;

PROC PRINT;
SUM DEERSPOP AP_MEAN PSA_CNT FN11CNT;
RUN;

proc sort data=cells;
by &domain.;
run;

proc sort data=post_wt;
by &domain.;
run;

data printchk;
merge cells post_wt;
by &domain;
run;

proc sort data=printchk;
by mprid;
run;

title4 "Print of key variables for 50 records";

Proc print data=Printchk (obs=50);
var &domain. POP SUMADJWT AP ADJWT WRWT ;
where wrwt~=0;
run;
*****
* Sort the original data and append the final weight (WRWT)
*****;

PROC SORT DATA=IN.&INPT. OUT=ADJWT TAGSORT; BY MPRID; RUN;
PROC SORT DATA=POST_WT TAGSORT; BY MPRID; RUN;

DATA OUT.POST_WT;
MERGE ADJWT POST_WT;
BY MPRID;
RUN;

*****

```

```
* Counts for population total for enrollment group, age, and superregion
*****;
```

```
TITLE4 "POPULATION COUNTS";
```

```
PROC FREQ data=in_f.framec;
  TABLE ENLSMPL AGESMPL SUPREG;
RUN;
```

```
*****
* Weighted frequencies for enrollment group, age, and superregion
* using poststratification adjusted weight
*****;
```

```
TITLE5 "WEIGHTED FREQUENCIES";
```

```
PROC FREQ data=in.post_wt;
  WEIGHT WRWT;
  TABLE ENLSMPL AGESMPL SUPREG;
RUN;
```

```
*****;
*** Calculate the Design Effects ***;
*****;
```

```
data post_wt_fnl11;
set in.post_wt;
where fnstatus=11;
run;
```

```
%design_effects_unequal_weights ( post_wt_fnl11, supreg, adjwt, deff_overall,
deff_sup );
%design_effects_unequal_weights ( post_wt_fnl11, agesmpl , adjwt, deff_overall,
deff_age );
%design_effects_unequal_weights ( post_wt_fnl11, enlsmpl, adjwt, deff_overall,
deff_enl );
%design_effects_unequal_weights ( post_wt_fnl11, svcsmpl, adjwt, deff_overall,
deff_svc );
%design_effects_unequal_weights ( post_wt_fnl11, sexsmpl, adjwt, deff_overall,
deff_sex );
```

```
proc print data = deff_overall;
title4 "design effect overall";
run;
```

```
proc print data= deff_sup;
title4 "design effect by supreg";
run;
```

```
proc print data= deff_age;
title4 "design effect by agesmpl";
run;
```

```
proc print data= deff_enl;
title4 "design effect by enlsmpl";
run;
```

```
proc print data= deff_svc;
title4 "design effect by svcsmpl";
```

```
run;

proc print data= deff_sex;
title4 "design effect by sexsmpl";
run;

%MEND PROCESS;

%PROCESS(poststr,C,adjwt);
```

9. CALCULATE REPLICATED WEIGHTS

```
*****
*****
*** Project:          DoD Child Sampling - Poststratification adjustments
*** Program: d:\projects\8687-610\Y2002C\weighting\repwt.SAS,
***
*** TASK:            2002 DOD HEALTH CARE SURVEY ANALYSIS
*** PURPOSE:        BUILD AND ASSIGN JK WEIGHTS - POST STRATIFICATION - CHILD SURVEY
***                 WEIGHTS FOR DOD SURVEY.
***                 DOD HEALTH CARE SURVEY FILE.
***                 REQUESTED BY DON JANG.
*** WRITTEN:        12/30/99 BY KEITH RATHBUN
*** REVISED:        09/27/2002 BY Esther Friedman
***
*** INPUTS:         1) POST_WT.SD2 - Final Weights file - Form C
***
***
*** OUTPUTS        1) REPWT.SD2 - JackKnife (JK) Weights file - Form C
***
***
*****
* ;

*** libname for the count***;
LIBNAME IN    v6 "D:\projects\8687-610\y2002q3\Weighting_child\data";
LIBNAME IN_F  v8 "D:\projects\8687-610\y2002q3\Sampling_child\data";
LIBNAME OUT   v6 "D:\projects\8687-610\y2002q3\Weighting_child\data";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER mprint mlogic symbolgen ;

%MACRO PROCESS(DOMAIN1, DOMAIN2, FORM);

*****
* Sort the final weights file by user-specified domains
*****;
PROC SORT DATA=IN.post_wt
      OUT=post_wt(KEEP=FNSTATUS MPRID BWT &DOMAIN1 &DOMAIN2)
      ;
      BY &DOMAIN1;
RUN;

*****
* Append SUBSET index (I) to each observation
*****;
DATA SUBSETS;
  SET post_wt;
  BY &DOMAIN1;

  IF _N_ = 1 OR MOD(_N_-1,60) = 0 THEN SUBSET = 1;
  ELSE SUBSET + 1;

  RETAIN SUBSET;
  BBWT = BWT*(60/59);
RUN;

*****
*****
* Generate JackKnife/replicated weights WRWT01-WRWT60
```

```

*****
*****;
%DO I = 1 %TO 60;

DATA SUBSET;
  SET SUBSETS;
  IF &I = SUBSET THEN DELETE; *Remove the current subset;
RUN;

*****
* Calculate adjustment factor A1 for each cell
*****;
DATA CELLSA1 (KEEP=SUMBBWT SUMG1-SUMG3 A1 CELLNAME CELLCNT)
  MPRIDSA1 (KEEP=CELLNAME MPRID FNSTATUS BBWT &DOMAIN1 &DOMAIN2)
  ;
  SET SUBSET;
  BY &DOMAIN1;

  LENGTH CELLNAME $25;
  CELLNAME = PUT(&DOMAIN1,5.);

  IF FIRST.&DOMAIN1 THEN DO;
    CELLCNT = 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 SUMG1 + BBWT;
  *****
  * Accumulate group 2 weight sum
  *****;
  ELSE IF FNSTATUS = 20 THEN SUMG2 + BBWT;
  *****
  * Accumulate group 3 weight sum
  *****;
  ELSE IF FNSTATUS = 30 THEN SUMG3 + BBWT;

  RETAIN SUMBBWT SUMG1-SUMG3 A1 CELLNAME CELLCNT MPRID;

  IF LAST.&DOMAIN1 THEN DO;
    A1 = SUMBBWT/(SUMG1 + SUMG2 + SUMG3);
    OUTPUT CELLSA1;
    CELLCNT = 0;
    SUMBBWT = 0.0;
    SUMG1 = 0.0;
    SUMG2 = 0.0;
    SUMG3 = 0.0;
  END;

```



```

END; * DOMAIN;
OUTPUT MPRIDSA1;
RUN;

*****
* Calculate adjustment factor A2 for each cell
*****;
DATA CELLSA2 (KEEP=CELLNAME CELLCNT A1 A2 NUMER DENOM);
MERGE MPRIDSA1 CELLSA1;
BY CELLNAME;

IF FIRST.CELLNAME THEN DO;
A2 = 0.0;
NUMER = 0.0;
DENOM = 0.0;
END;
RETAIN NUMER DENOM A2;

IF FNSTATUS IN(11,12) OR FNSTATUS = 20 THEN NUMER + BBWT*A1;
IF FNSTATUS = 11 THEN DENOM + BBWT*A1;

IF LAST.CELLNAME THEN DO;
A2 = NUMER/DENOM;
OUTPUT CELLSA2;
END;
RUN;

*****
* Calculate Adjusted Weight
*****;
DATA ADJWGT;
MERGE CELLSA2 MPRIDSA1;
BY CELLNAME;
IF FNSTATUS = 11 THEN
AWT = A1*A2*BBWT;
ELSE IF FNSTATUS IN(12,20,41,42) THEN
AWT = 0;
ELSE IF FNSTATUS = 30 THEN
AWT = A1*BBWT;
KEEP MPRID FNSTATUS AWT BBWT &DOMAIN1 &DOMAIN2;
RUN;

*****
* Begin final weight code
*****
* Assign cell names and calculate the sum of AWT
*****;

PROC SORT DATA=ADJWGT; BY &DOMAIN2; RUN;

DATA CELLS (KEEP=SUMAWT &DOMAIN2)
MPRIDS (KEEP=MPRID FNSTATUS AWT &DOMAIN1 &DOMAIN2)
;
SET ADJWGT;
BY &DOMAIN2;

IF FIRST.&DOMAIN2 THEN DO;
SUMAWT = 0.0;

```

```

END;

*****
* Accumulate sum of adjusted weight
*****;
SUMAWT + AWT;

RETAIN SUMAWT;

IF LAST.&DOMAIN2 THEN DO;
    OUTPUT CELLS;
    SUMAWT = 0.0;
END; * DOMAIN;
OUTPUT MPRIDS;
RUN;

*****
* Merge the population counts and calculate the adjusted population (AP)
*****;
DATA recountc;
SET in_f.recountc (KEEP = stratum PSUM0);
    POSTSTR = stratum;
    POP = PSUM0;
RUN;

PROC SORT DATA=recountc OUT=recountc; BY &DOMAIN2; RUN;

DATA AP;
    MERGE recountc CELLS ;
    BY &DOMAIN2;
    AP = POP/SUMAWT;
RUN;

*****
* Merge the adjusted population and calculate JackKnife Weights
* (WRWT1-WRWT60)
*****;
DATA SUBSET&I(KEEP=MPRID SUBSET JKWEIGHT);
    MERGE AP(IN=IN1) MPRIDS(IN=IN2);
    BY &DOMAIN2;

    SUBSET = &I;
    IF IN2 THEN DO;
        JKWEIGHT = AP*AWT;
        OUTPUT;
    END;

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(60) WRWT1-WRWT60; RETAIN WRWT1-WRWT60;
IF FIRST.MPRID THEN DO;
  DO I = 1 TO 60; DROP I;
    JKWT(I) = . ;
  END;
END;
JKWT(SUBSET) = JKWEIGHT;
IF LAST.MPRID THEN OUTPUT;
KEEP MPRID WRWT1-WRWT60;
```

```
RUN;
```

```
*****
* Sort the original data, get the final weight (WRWT), append the
* JackKnife/Replicated weights (WRWT1-WRWT60), and label variables.
*****;
```

```
PROC SORT DATA=IN.POST_WT
  OUT=POST_WT;
  BY MPRID;
```

```
RUN;
```

```
DATA OUT.REPWT;
  MERGE POST_WT 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 "2002 DOD Health Survey Final/Replicated Weights";
TITLE3 "Program Output: REPWT.SD2";

PROC CONTENTS DATA=OUT.REPWT;

PROC MEANS DATA=OUT.REPWT n mean stddev min max sum;
VAR WRWT WRWT1-WRWT60;
RUN;

PROC SORT DATA=OUT.REPWT;

```

```

BY MPRID;
RUN;

DATA OUT.REPWT;
  SET OUT.REPWT;
  BY MPRID;

  ARRAY WGTS(60) WRWT1-WRWT60;
  DO I = 1 TO 60; DROP I;
    IF WGTS(I) EQ . THEN WGTS(I) = 0;
  END;

  KEEP MPRID BWT adjwt POP POSTSTR WRWT WRWT1-WRWT60;
RUN;

PROC SORT DATA=OUT.REPWT; BY &DOMAIN2; RUN;
PROC MEANS DATA=OUT.REPWT NOPRINT;
  VAR POP WRWT;
  BY &DOMAIN2;
  OUTPUT OUT=STATS(KEEP=&DOMAIN2 DEERSPOP POPCNT)
          SUM= DUMMY1   POPCNT
          MAX= DEERSPOP DUMMY2;

RUN;
Proc print data=stats;

PROC MEANS DATA=OUT.REPWT n mean stddev min max sum;
VAR WRWT WRWT1-WRWT60;
RUN;

%MEND;

%PROCESS(stratum, POSTSTR, C);

```

10. FINAL MERGE

```
*****
*****
*
* PROGRAM: ADDWGTS.SAS
* TASK:    2002 DOD HEALTH CARE SURVEY ANALYSIS (8860-220)
* PURPOSE: MERGE THE FINAL WEIGHTS FILE WITH THE FINAL
*          QUESTIONNAIRE/SAMPLE FILE
*
* WRITTEN: 02/02/2001 BY KEITH RATHBUN
*
* INPUTS:  1) REPWT.SD2 - Final/Replicated Weights file - FORM C
*          2) MERGEC.SD2 - Final FORM C Questionnaire/Sample File
*
* OUTPUTS: 1) HCSyyc_n.SD2 - Final FORM C Questionnaire/Sample File
*          combined with Final/Replicated Weights file - FORM C
*          where yy = Year
*                c = Child Survey
*                n = Final Dataset Suffix/Version Number
*
*****
;
LIBNAME IN      v612 "..\..\DATA\CFINAL";
LIBNAME OUT     v612 "..\..\DATA\CFINAL";
LIBNAME LIBRARY v612 "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

%MACRO PROCESS(DSNI_1=,DSNI_2=,DSNO=);
*****
* Merge the final weights file with the final Questionnaire/Sample file
*****;
PROC SORT DATA=IN.&DSNI_1 OUT=&DSNI_1; BY MPRID; RUN;
PROC SORT DATA=IN.&DSNI_2 OUT=&DSNI_2; BY MPRID; RUN;

DATA OUT.&DSNO;
    MERGE &DSNI_2(IN=IN2)
          &DSNI_1(IN=IN1);
    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";
    LABEL KEYCOUNT = "# of Key Questions Answered";
    LABEL WRWT      = "Final Weight";
    DROP ADJWT;
RUN;

TITLE1 "2002 DOD Child Health Care Survey (8860-220)";
TITLE2 "Program Name: ADDWGTS.SAS By Keith Rathbun";
TITLE3 "Program Inputs: &DSNI_1..SD2 -- &DSNI_2..SD2";
TITLE4 "Program Outputs: &DSNO..SD2";
PROC CONTENTS; RUN;

%MEND PROCESS;

%PROCESS(DSNI_1=REPWT, DSNI_2=MERGEC, DSNO=HCS02C_1);
```

APPENDIX H

SUDAAN CODE FOR VARIANCE ESTIMATION


```

*****
*   program:   SUDTEST.SAS
*   purpose:   to demonstrate SAS callable SUDAAN
*   input:    j:\DOD\Q3_2002\DATA\cfinal\hcs02c_1.sd2
*****
* ;
options ps=79 ls=132;
libname in 'j:\DOD\Q3_2002\DATA\cfinal';
libname library 'j:\DOD\Q3_2002\DATA\cfinal\fmtlib';

***SORT FILE BY STRATUM***;
PROC SORT DATA=IN.HCS02C_1 (keep=SUPREG C02015 C02016 WRWT stratum);
BY STRATUM;
RUN;

*****
Can estimate means or proportions
*****;
title 'Output file from SUDAAN for estimating means';
title2 'Average rating of the specialist (Q16) by Super region';
title3 'Proportion of beneficiaries who have seen specialists (Q15) by Super
Region';

PROC DESCRIPT DATA=IN.HCS02C_1 DESIGN=STRWR NOPRINT;
  WEIGHT  WRWT;          *****  sampling/FINAL SURVEY WEIGHT          *****;
  NEST STRATUM / missunit;
  VAR  C02015 C02016;    *****  VARIABLES TO BE ESTIMATED**;
  TABLES SUPREG;
  SUBGROUP SUPREG;
  LEVELS 3;
  OUTPUT MEAN SEMEAN deffmean/ TABLECELL=DEFAULT FILENAME=mnsDAT;
  ***SEMEAN=standard error and deffmean=design effect**;
RUN;

proc print data=mnsdat;
run;

```