MEPS HC-010B: 1996 DENTAL VISITS

Agency for Healthcare Research and Quality Center for Cost and Financing Studies

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A. Data Use Agreement

Individual identifiers have been removed from the microdata contained in the files on this CD-ROM. Nevertheless, under sections 308 (d) and 903 (c) of the Public Health Service Act (42 U.S.C. 242m and 42 U.S.C. 299 a-1), data collected by the Agency for Healthcare Research and Quality (AHRQ) and/or the National Center for Health Statistics (NCHS) may not be used for any purpose other than for the purpose for which they were supplied; any effort to determine the identity of any reported cases, is prohibited by law.

Therefore in accordance with the above referenced Federal statute, it is understood that:

- 1. No one is to use the data in this data set in any way except for statistical reporting and analysis.
- 2. If the identity of any person or establishment should be discovered inadvertently, then (a) no use will be made of this knowledge, (b) the Director, Office of Management, AHRQ will be advised of this incident, (c) the information that would identify any individual or establishment will be safeguarded or destroyed, as requested by AHRQ, and (d) no one else will be informed of the discovered identity.
- 3. No one will attempt to link this data set with individually identifiable records from any data sets other than the Medical Expenditure Panel Survey or the National Health Interview Survey.

By using these data you signify your agreement to comply with the above-stated statutorily based requirements, with the knowledge that deliberately making a false statement in any matter within the jurisdiction of any department or agency of the Federal Government violates 18 U.S.C. 1001 and is punishable by a fine of up to \$10,000 or up to 5 years in prison.

The Agency for Healthcare Research and Quality requests that users cite AHRQ and the Medical Expenditure Panel Survey as the data source in any publications or research based upon these data.

B. Background

This documentation describes one in a series of public use files from the Medical Expenditure Panel Survey (MEPS). The survey provides a new and extensive data set on the use of health services and health care in the United States.

MEPS is conducted to provide nationally representative estimates of health care use, expenditures, sources of payment, and insurance coverage for the U.S. civilian noninstitutionalized population. MEPS also includes a nationally representative survey of nursing homes and their residents. MEPS is cosponsored by the Agency for Healthcare Research and Quality (AHRQ) (formerly the Agency for Health Care Policy and Research (AHCPR)) and the National Center for Health Statistics (NCHS).

MEPS comprises four component surveys: the Household Component (HC), the Medical Provider Component (MPC), the Insurance Component (IC), and the Nursing Home Component (NHC). The HC is the core survey, and it forms the basis for the MPC sample and part of the IC sample. The separate NHC sample supplements the other MEPS components. Together these surveys yield comprehensive data that provide national estimates of the level and distribution of health care use and expenditures, support health services research, and can be used to assess health care policy implications.

MEPS is the third in a series of national probability surveys conducted by AHRQ on the financing and use of medical care in the United States. The National Medical Care Expenditure Survey (NMCES, also known as NMES-1) was conducted in 1977. The National Medical Expenditure Survey (NMES-2) was conducted in 1987. Beginning in 1996, MEPS continues this series with design enhancements and efficiencies that provide a more current data resource to capture the changing dynamics of the health care delivery and insurance system.

The design efficiencies incorporated into MEPS are in accordance with the Department of Health and Human Services (DHHS) Survey Integration Plan of June 1995, which focused on consolidating DHHS surveys, achieving cost efficiencies, reducing respondent burden, and enhancing analytical capacities. To accommodate these goals, new MEPS design features include linkage with the National Health Interview Survey (NHIS), from which the sampling frame for the MEPS HC is drawn, and continuous longitudinal data collection for core survey components. The MEPS HC augments NHIS by selecting a sample of NHIS respondents, collecting additional data on their health care expenditures, and linking these data with additional information collected from the respondents' medical providers, employers, and insurance providers.

1.0 Household Component

The MEPS HC, a nationally representative survey of the U.S. civilian noninstitutionalized population, collects medical expenditure data at both the person and household levels. The HC

collects detailed data on demographic characteristics, health conditions, health status, use of medical care services, charges and payments, access to care, satisfaction with care, health insurance coverage, income, and employment.

The HC uses an overlapping panel design in which data are collected through a preliminary contact followed by a series of five rounds of interviews over a 2½-year period. Using computer-assisted personal interviewing (CAPI) technology, data on medical expenditures and use for two calendar years are collected from each household. This series of data collection rounds is launched each subsequent year on a new sample of households to provide overlapping panels of survey data and, when combined with other ongoing panels, will provide continuous and current estimates of health care expenditures.

The sampling frame for the MEPS HC is drawn from respondents to NHIS, conducted by NCHS. NHIS provides a nationally representative sample of the U.S. civilian noninstitutionalized population, with oversampling of Hispanics and blacks.

2.0 Medical Provider Component

The MEPS MPC supplements and validates information on medical care events reported in the MEPS HC by contacting medical providers and pharmacies identified by household respondents. The MPC sample includes all hospitals, hospital physicians, home health agencies, and pharmacies reported in the HC. Also included in the MPC are all office-based physicians who:

- were identified by the household respondent as providing care for HC respondents receiving Medicaid.
- were selected through a 75-percent sample of HC households receiving care through an HMO (health maintenance organization) or managed care plan.
- were selected through a 25-percent sample of the remaining HC households.

Data are collected on medical and financial characteristics of medical and pharmacy events reported by HC respondents, including:

- Diagnoses coded according to ICD-9-CM (9th Revision, International Classification of Diseases) and DSM-IV (Fourth Edition, *Diagnostic and Statistical Manual of Mental Disorders*).
- Physician procedure codes classified by CPT-4 (Common Procedure Terminology, Version 4).
- Inpatient stay codes classified by DRGs (diagnosis-related groups).

- Prescriptions coded by national drug code (NDC), medication name, strength, and quantity dispensed.
- Charges, payments, and the reasons for any difference between charges and payments.

The MPC is conducted through telephone interviews and mailed survey materials. In some instances, providers sent medical and billing records which were abstracted into the survey instruments.

3.0 Insurance Component

The MEPS IC collects data on health insurance plans obtained through employers, unions, and other sources of private health insurance. Data obtained in the IC include the number and types of private insurance plans offered, benefits associated with these plans, premiums, contributions by employers and employees, eligibility requirements, and employer characteristics.

Establishments participating in the MEPS IC are selected through four sampling frames:

- A list of employers or other insurance providers identified by MEPS HC respondents who report having private health insurance at the Round 1 interview.
- A Bureau of the Census list frame of private-sector business establishments.
- The Census of Governments from Bureau of the Census.
- An Internal Revenue Service list of the self-employed.

To provide an integrated picture of health insurance, data collected from the first sampling frame (employers and insurance providers) are linked back to data provided by the MEPS HC respondents. Data from the other three sampling frames are collected to provide annual national and State estimates of the supply of private health insurance available to American workers and to evaluate policy issues pertaining to health insurance.

The MEPS IC is an annual survey. Data are collected from the selected organizations through a prescreening telephone interview, a mailed questionnaire, and a telephone follow up for nonrespondents.

4.0 Nursing Home Component

The 1996 MEPS NHC was a survey of nursing homes and persons residing in or admitted to

nursing homes at any time during calendar year 1996. The NHC gathered information on the demographic characteristics, residence history, health and functional status, use of services, use of prescription medicines, and health care expenditures of nursing home residents. Nursing home administrators and designated staff also provided information on facility size, ownership, certification status, services provided, revenues and expenses, and other facility characteristics. Data on the income, assets, family relationships, and care-giving services for sampled nursing home residents were obtained from next-of-kin or other knowledgeable persons in the community.

The 1996 MEPS NHC sample was selected using a two-stage stratified probability design. In the first stage, facilities were selected; in the second stage, facility residents were sampled, selecting both persons in residence on January 1, 1996, and those admitted during the period January 1 through December 31.

The sample frame for facilities was derived from the National Health Provider Inventory, which is updated periodically by NCHS. The MEPS NHC data were collected in person in three rounds of data collection over a 1½-year period using the CAPI system. Community data were collected by telephone using computer-assisted telephone interviewing (CATI) technology. At the end of three rounds of data collection, the sample consisted of 815 responding facilities, 3,209 residents in the facility on January 1, and 2,690 eligible residents admitted during 1996.

5.0 Survey Management

MEPS data are collected under the authority of the Public Health Service Act. They are edited and published in accordance with the confidentiality provisions of this act and the Privacy Act. NCHS provides consultation and technical assistance.

As soon as data collection and editing are completed, the MEPS survey data are released to the public in staged releases of summary reports and microdata files. Summary reports are released as printed documents and electronic files. Microdata files are released on CD-ROM and/or as electronic files.

Printed documents and CD-ROMs are available through the AHRQ Publications Clearinghouse. Write or call:

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Be sure to specify the AHRQ number of the document or CD-ROM you are requesting. Selected electronic files are available from the Internet on the MEPS web site: http://www.meps.ahrq.gov/.

Additional information on MEPS is available from the MEPS project manager or the MEPS public use data manager at the Center for Cost and Financing Studies, Agency for Healthcare Research and Quality.

C. Technical and Programming Information

1.0 General Information

This documentation describes one in a series of public use event files from the 1996 Medical Expenditure Panel Survey Household (HC) and Medical Provider Components(MPC). Released as an ASCII data file and SAS transport file, this public use file provides detailed information on dental events for a nationally representative sample of the civilian noninstitutionalized population of the United States and can be used to make estimates of dental event utilization and expenditures for calendar year 1996. Each record on this event file represents a unique dental event; that is, a dental event reported by the household respondent.

Data from this event file can be merged with other MEPS HC data files, for the purposes of appending person characteristics such as demographic or health insurance coverage to each dental event record.

Counts of dental event utilization are based entirely on household reports. Dental events were not included in the MPC, therefore all expenditure and payment data are reported by the household.

This file can be also used to construct summary variables of expenditures, sources of payment, and related aspects of the dental event. Aggregate annual person-level information on the use of dental events and other health services use is provided on public use file HC-011, where each record represents a MEPS sampled person.

The following documentation offers a brief overview of the types and levels of data provided, the content and structure of the files and the codebook, and programming information. It contains the following sections:

Data File Information
Sample Weights and Variance Estimation Variables
Merging MEPS Data Files
Programming Information
References
Codebook
Variable to Source Crosswalk

For more information on MEPS HC survey design see S. Cohen, 1997; J. Cohen, 1997; and S. Cohen, 1996. For information on the MEPS MPC design, see S. Cohen, 1998. A copy of the survey instrument used to collect the information on this file is available on the MEPS web site at the following address: http://www.meps.ahrq.gov.

2.0 Data File Information

This public use data set consists of two event-level data files. File 1 contains characteristics associated with the dental event and imputed expenditure data. File 2 contains pre-imputed expenditure data from the Household Component for all dental events on File 1. Please see Section 2.5.4 for definitions of imputed, and pre-imputed expenditure variables.

Both Files 1 and 2 of this public use data set contain 22,165 dental event records. Of the 22,165, dental event records, 21,866 are associated with persons having a positive person-level weight (WTDPER96). This file includes dental event records for all household survey respondents who resided in eligible responding households and reported at least one dental event. Each record represents one household-reported dental event that occurred during calendar year 1996. Dental visits known to have occurred after December 31, 1996 are not included on this file. Some household respondents may have multiple dental events and thus will be represented in multiple records on this file. Other household respondents may have reported no dental events and thus will have no records on this file. These data were collected during rounds 1, 2, and 3 of the MEPS HC. The persons represented on this file had to meet either (a) or (b) below:

- a) Be classified as a key in-scope person who responded for his or her entire period of 1996 eligibility (i.e., persons with a positive 1996 full-year person-level sampling weight (WTDPER96 > 0)), or
- b) Be classified as either an eligible non-key person or an eligible out-of-scope person who responded for his or her entire period of 1996 eligibility, and belonged to a family (i.e., all persons with the same value for a particular FAMID) in which all eligible family members responded for their entire period of 1996 eligibility, and at least one family member has a positive 1996 full-year person weight (i.e., eligible non-key or eligible out-of-scope persons who are members of a family all of whose members have a positive 1996 full-year MEPS family-level weight (WTFAM96 >0)).

Please refer to Attachment 1 for definitions of key, non-key, inscope and eligible.

Each dental event record on this file includes the following: date of the dental event; type of provider seen, if visit was due to an accident; reason for dental event; condition(s) and procedure(s) associated with the dental event; whether or not medicines were prescribed; flat fee information, imputed sources of payment, total payment and total charge of the dental event expenditure, and a full-year person-level weight.

File 2 of this public use data set is intended for analysts who want to perform their own imputations to handle missing data. This file contains one set of pre-imputed expenditure information from the Household Component. Expenditure data have been subject to minimal logical editing that accounted for outliers, copayments or charges reported as total payments, and

reimbursed amounts that were reported as out of pocket payments. In addition, edits were implemented to correct for misclassifications between Medicare and Medicaid and between Medicare HMO's and private HMO's as payment sources. However, missing data were not imputed.

Data from these files can be merged with previously released 1996 MEPS HC person level data using the unique person identifier, DUPERSID, to append person characteristics such as demographic or health insurance characteristics to each record. Dental events can also be linked to the MEPS 1996 Medical Conditions File (HC-006) and MEPS 1996 Prescribed Medicine File (HC-010A). Please see File HC-010I: The Appendix File for details on how to link MEPS data files.

2.1 Codebook Structure

For each variable on these files, both weighted and unweighted frequencies are provided. The codebook and data file sequence list variables in the following order:

File 1

Unique person identifiers
Unique dental event identifiers
Other survey administration variables
Dental characteristics
ICD-9 codes
Clinical Classification Software codes
Imputed expenditure variables
Weight and variance estimation variables

File 2

Unique person identifiers
Unique dental event identifiers
Pre-imputed expenditure variables

2.2 Reserved Codes

The following reserved code values are used:

-1 INAPPLICABLE Question was not asked due to skip pattern.

-7 REFUSED Question was asked and respondent refused to answer

question.

-8 DK Question was asked and respondent did not know answer.

-9 NOT ASCERTAINED Interviewer did not record the data.

Generally, values of -1,-7, -8, and -9 have not been edited on this file. The values of -1 and -9 can be edited by analysts by following the skip patterns in the questionnaire.

2.3 Codebook Format

This codebook describes an ASCII data set (although the data are also being provided in a SAS transport file). The following codebook items are provided for each variable:

| IDENTIFIER | DESCRIPTION |
|-------------|--|
| Name | Variable name (maximum of 8 characters) |
| Description | Variable descriptor (maximum of 40 characters) |
| Format | Number of bytes |
| Type | Type of data: numeric (indicated by NUM) or character (indicated |
| | by CHAR) |
| Start | Beginning column position of variable in record |
| End | Ending column position of variable in record |

2.4 Variable Naming

In general, variable names reflect the content of the variable, with an 8 character limitation. For questions asked in a specific round, the end digit in the variable name reflects the round in which the question was asked. All imputed/edited variables end with an "X."

2.4.1 General

Variables contained on Files 1 and 2 were derived from the HC questionnaire. The source of each variable is identified in the Section E, entitled, "Variable to Source Crosswalk". Sources for each variable are indicated in one of four ways: (1) variables which are derived from CAPI or assigned in sampling are so indicated; (2) variables which come from one or more specific questions have those numbers and the questionnaire section indicated in the "Source" column; and (3) variables constructed from multiple questions using complex algorithms are labeled "Constructed" in the "Source" column; and (4) variables which have been imputed are so indicated.

2.4.2 Expenditure and Sources of Payment Variables

Pre-imputed and imputed versions of the expenditure and sources of payment variables are provided on 2 separate files. Variables on Files 1 and 2 follow a standard naming convention and are 8 characters in length. Please note that pre-imputed means that a series of logical edits have been performed on the variable but missing data remain. The imputed versions incorporate the same edits but also have undergone an imputation process to account for missing data.

The pre-imputed expenditure variables on File 2 end with an "H" indicating that the data source was the MEPS Household Component. All imputed variables on File 1 end with an "X" indicating they are fully edited and imputed.

The total sum of payments, 12 sources of payment variables, and total charge variables are named consistently in the following way:

The first two characters indicate the type of event:

IP - inpatient stay

ER - emergency room visit

HH - home health visit

OB - office-based visit

OP - outpatient visit

DV - dental visit

OM - other medical equipment RX - prescribed medicine

In the case of the source of payment variables, the third and fourth characters indicate:

SF - self or family OF - other Federal Government XP - sum of payments

MR - Medicare SL - State/local government MD - Medicaid WC - Worker's Compensation

PV - private insurance
VA - Veterans
CH - CHAMPUS/CHAMPVA
OT - other insurance
OR - other private
OU - other public

The fifth and sixth characters indicate the year (96). The last character of all imputed/edited variables is an "X".

For example, DVSF96X is the edited/imputed amount paid by self or family for the 1996 dental expenditure.

2.5 File 1 Contents

2.5.1 Survey Administration Variables

2.5.1.1 Person Identifiers (DUID - DUPERSID)

The dwelling unit ID (DUID) is a 5-digit random number assigned after the case was sampled for MEPS. The 3-digit person number (PID) uniquely identifies each person within the dwelling unit. The 8-character variable DUPERSID uniquely identifies each person represented on the file and is the combination of the variables DUID and PID. For detailed information on dwelling units and families, please refer to the documentation on public use file HC-008.

2.5.1.2 Record Identifiers (EVNTID, FFID11X, EVENTRN)

EVNTID uniquely identifies each event (i.e., each record on the file) and is the variable required to link events to data files containing details on conditions and/or prescribed medicines (HC-006 and HC-010A, respectively). For details on linking see Section 5.0.

FFID11X uniquely identifies a flat fee group, that is, all events that were part of a flat fee payment situation. For example, a charge for orthodontia is typically covered in a flat fee arrangement where all visits are covered under one flat fee dollar amount. These events have the same value for FFID11X. FFID11X identifies a flat fee payment situation that was identified using information from the Household Component. Please note that FFID11X should be used to link up all MEPS event files (excluding prescribed medicines) in order to determine the full set of events that are part of a flat fee group.

EVENTRN indicates the round in which the dental event was first reported.

2.5.2 Characteristics of Dental Events

2.5.2.1 Date of Dental Visit (DVDATEYR - DVDATEDD)

File 1 contains variables describing dental events reported by household respondents in the Dental Section of the MEPS HC questionnaire. There are three variables which indicate the day, month and year a dental event occurred (DVDATEDD, DVBEGMM, DVDATEYR, respectively). These variables have not been edited or imputed.

2.5.2.2 Type of Provider Seen (GENDENT - DENTYPE)

Respondents were asked about the type of provider seen during the visit, e.g. general dentist, dental hygienist, or orthodontist. More than one type of provider may have been identified on an event record.

2.5.2.3 Treatment, Procedures, and Services (EXAMINEX - DENTMED)

Respondents were asked about the types of services or treatments they received during the visit (EXAMINEX - TMDTMJ), such as root canal or x-rays, and whether or not the visit was because of an accident (DENTINJ). More than one type of service or treatment may have been identified on an event record. Some procedures or services identified in DENTOTHR as "Dental services other specify" have been edited to appropriate procedure and service categories. Both the edited and unedited versions of these variables are included on this file. DENTMED indicates whether or not the respondent received a prescription medication, including free samples, during the dental visit.

2.5.2.4 ICD-9 Condition (DVICD1X, DVICD2X) and Procedure Codes (DVPRO1X, DVPRO2X) and Clinical Classification Codes (DVCCC1X, DVCCC2X)

Information on household reported medical conditions, procedures, and clinical classification codes associated with each dental event are provided on this file. There are up to two condition codes (DVICD1X, DVICD2X), procedure codes(DVPRO1X, DVPRO2X), and clinical classification codes (DVCCC1X, DVCCC2X) listed for each dental event. This represents 100% of the conditions, procedures, and clinical classification codes that can be linked to the current file from the 1996 Medical Condition File (HC-006). Not all dental records on this file are associated with a medical condition or procedure. Only 492 records (approximately 2.2%) can be linked to the Medical Condition Public Use File (HC-006).

The medical conditions and procedures reported by the household respondent were recorded by the interviewer as verbatim text, which were then coded to fully-specified 1996 ICD-9-CM codes, including medical condition and V codes (see Health Care Financing Administration, 1980), by professional coders. For details regarding the coding and editing procedures used for ICD-9 condition and procedure codes, and clinical classification codes see HC-006 (1996 Medical Conditons) documentation. Weighted and unweighted frequencies for DVCCC1X-DVCCC2X are provided in the Appendix File.

2.5.2.5 Record Count Variable (NUMCOND)

The variable NUMCOND indicates the total number of records on the condition file that can be linked from HC-006: Medical Conditions File to each dental event. For events with no condition records linked (NUMCOND=0), the condition, procedure, and clinical classification code variables all have a value of -1 INAPPLICABLE. Similarly, for events without a linked second condition, procedure record, the corresponding second condition and clinical classification code variable was set to -1 INAPPLICABLE.

2.5.3 Flat Fee Variables

2.5.3.1 Definition of Flat Fee Payments

A flat fee is the fixed dollar amount a person is charged for a package of services provided during a defined period of time. Examples would be an orthodontist's fee which covers multiple visits; or a dental surgeon's fee covering surgical procedure and post-surgical care. A flat fee group is the set of medical events (that can vary by type of event) that are covered under the same flat fee payment situation. The flat fee groups represented on this file (and all of the other 1996 MEPS event files), include flat fee groups where at least one of the health care events, as reported by the HC respondent, occurred during 1996. By definition a flat fee group can span multiple years and/or event types (e.g., hospital stay, physician office visit), and a single person can have multiple flat fee groups.

2.5.3.2 Flat Fee Variable Descriptions

There are several variables on this file that describe a flat fee payment situation and the number of medical events that are part of a flat fee group. As noted previously, for a person, the variable FFID11X can be used to identify all events, that are part of the same flat fee group. To identify such events, FFID11X should be used to link events from all MEPS event files (excluding prescribed medicines): HC-010B through HC-010H. For the dental events that are not part of a flat fee payment situation, the flat fee variables described below are all set to inapplicable (-1).

Flat Fee Type (FFDVTYPX)

FFDVTYPX indicates whether the 1996 dental event is the "stem" or "leaf" of a flat fee group. A stem (records with FFDVTYPX = 1) is the initial medical service (event) which is followed by other medical events that are covered under the same flat fee payment. The leaf of the flat fee group (records with FFDVTYPX = 2) are those medical events that are tied back to the initial medical event (the stem) in the flat fee group.

Total Number of 1996 Events in Group (FFTOT96)

If a dental event is part of a flat fee group, the variable FFTOT96 counts the total number of all known events, that occurred during 1996 you are covered under a single flat fee payment situation.

Counts of Flat Fee Events that Cross Years (FFBEF96 – FFTOT97)

As described above, a flat fee payment situation covers multiple events and the multiple events could span multiple years. For situations where a 1996 dental visit is part of a group of events, and some of the events occurred before or after 1996, counts of the known events are provided on the dental record. Indicator variables are provided if some of the events occurred after 1996. These variables are:

FFBEF96 -- total number of pre-1996 events in the same flat fee group as the 1996 dental event. This count would not include 1996 dental events.

FFDV97 – indicates whether or not there are 1997 dental events in the same flat fee group as the 1996 dental event record.

FFTOT97 -- indicates whether or not there are 1997 medical events in the same flat fee group as the 1996 dental event record.

2.5.3.3 Caveats of Flat Fee Groups

The user should note that flat fee payment situations are common with respect to dental events. There are 4,346 dental events that are identified as being part of a flat fee payment group. This yields 1,138 flat fee payment groups. In order to correctly identify all events that are part of a flat fee group, the user should link all MEPS event files (excluding the prescribed medicines file) using the variable FFID11X.

In general, every flat fee group should have an initial visit (stem) and at least one subsequent visit (leaf). There are some situations where this is not true. For some of these flat fee groups, the initial visit reported occurred in 1996 but the remaining visits that were part of this flat fee group occurred in 1997. In this case, the 1996 flat fee group represented on this file would consist of one event (the stem). The 1997 events that are part of this flat fee group are not represented on the file. Similarly, the household respondent may have reported a flat fee group where the initial visit began in 1995 but subsequent visits occurred during 1996. In this case, the initial visit would not be represented on the file. This 1996 flat fee group would then only consist of one or more leaf records and no stem. Another reason for which a flat fee group would not have a stem and a leaf record is that the stems or leaves could have been reported as different event types. In a small number of cases, there are flat fee bundles that span various event types. The stem may have been reported as one event type and the leaves may have been reported as another event type. In order

to determine this, the analyst must link all event files (excluding the prescribed medicines files) using the variable FFID11X to create the flat fee group.

2.5.4 Expenditure Data

2.5.4.1 Definition of Expenditures

Expenditures on this file refer to what is paid for dental services. More specifically, expenditures in MEPS are defined as the sum of payments for care received, including out of pocket payments and payments made by private insurance, Medicaid, Medicare and other sources. The definition of expenditures used in MEPS differs slightly from its predecessors: the 1987 NMES and 1977 NMCES surveys where "charges" rather than sum of payments were used to measure expenditures. This change was adopted because charges became a less appropriate proxy for medical expenditures during the 1990's due to the increasingly common practice of discounting. Although measuring expenditures as the sum of payments incorporates discounts in the MEPS expenditure estimates, the estimates do not incorporate any payment not directly tied to specific medical care visits, such as bonuses or retrospective payments adjustments paid by third party payers. Another general change from the two prior surveys is that charges associated with uncollected liability, bad debt, and charitable care (unless provided by a public clinic or hospital) are not counted as expenditures because there are no payments associated with those classifications. For details on expenditure definitions, please reference the following, "Informing American Health Care (Monheit et al, 1999)."

2.5.4.2 Data Editing/Imputation Methodologies of Expenditure Variables

The general methodology used for editing and imputing expenditure data is described below. Neither the dental events nor other medical expenditures (such as glasses, contact lenses, and hearing devices) were included in the Medical Provider Component. Therefore, although the general procedures remain the same, for dental and other medical expenditures, editing and imputation methodologies were applied only to household-reported data. Specific methodologies for editing and imputing dental expenditures follows the General Imputation Methodology section.

2.5.4.3 General Imputation Methodology

Logical edits were used to resolve internal inconsistencies and other problems in the HC and MPC survey-reported data. The edits were designed to preserve partial payment data from households and providers, and to identify actual and potential sources of payment for each household-reported event. In general, these edits accounted for outliers, copayments or charges reported as total payments, and reimbursed amounts that were reported as out of pocket payments. In addition, edits were implemented to correct for misclassifications between Medicare and Medicaid and between Medicare HMO's and private HMO's as payment sources. These edits produced a

complete vector of expenditures for some events, and provided the starting point for imputing missing expenditures in the remaining events.

A weighted sequential hot-deck procedure was used to impute for missing expenditures as well as total charge. The procedure uses survey data from respondents to replace missing, while taking into account the respondents' weighted distribution in the imputation process. Classification variables vary by event type in the hot-deck imputations, but total charge and insurance coverage are key variables in all of the imputations. Separate imputations were performed for nine categories of medical provider care: inpatient hospital stays, outpatient hospital department visits, emergency room visits, visits to physicians, visits to non-physician providers, dental services, home health care by certified providers, home health care by paid independents, and other medical expenses. After the imputations were finished, visits to physician and non-physician providers were combined into a single medical provider file. The two categories of home care also were combined into a single home health file.

2.5.4.4 Dental Imputation

Expenditures on visits to dentists were developed in a sequence of logical edits and imputations. Household edits were applied to sources and amounts of payment for all events reported by HC respondents.

The household edits were used to correct obvious errors in the reporting of expenditures, and to identify actual and potential sources of payments. Some of the edits were global (i.e., applied to all events). Others were hierarchical and mutually exclusive. One of the more important edits separated flat fee events from simple events. This edit was necessary because groups of events covered by a flat fee (i.e., a flat fee bundle) were edited and imputed separately from individual events covered by a single charge (i.e., simple events). Dental services were imputed as flat fee events if the charges covered a package of health care services (e.g., orthodontia), and all of the services were part of the same event type (i.e., a pure bundle). If a bundle contained more than one type of event, the services were treated as simple events in the imputations (See Section 2.5.3 for more detail on the definition and imputation of events in flat fee bundles.)

Logical edits also were used to sort each event into a specific category for the imputations. Events with complete expenditures were flagged as potential donors for the hot-deck imputations, while events with missing expenditure data were assigned to various recipient categories. Each event was assigned to a recipient category based on its pattern of missing data. For example, an event with a known total charge but no expenditures information was assigned to one category, while an event with a known total charge and some expenditures information was assigned to a different category. Similarly, events without a known total charge were assigned to various recipient categories based on the amount of missing data.

The logical edits produced nine recipient categories for events with missing data. Eight of the categories were for events with a common pattern of missing data and a primary payer other than Medicaid. These events were imputed separately because persons on Medicaid rarely know the provider's charge for services or the amount paid by the state Medicaid program. As a result, the total charge for Medicaid-covered services was imputed and discounted to reflect the amount that a state program would pay for the care.

Separate hot-deck imputations were used to impute for missing data in each of the other eight recipient categories. The donor pool included "free events" because, in some instances, providers are not paid for their services. These events represent charity care, bad debt, provider failure to bill, and third party payer restrictions on reimbursement in certain circumstances. If free events were excluded from the donor pool, total expenditures would be over-counted because the cost of free care would be implicitly included in paid events and explicitly included in events that should have been treated as free from provider.

2.5.4.5 Flat Fee Expenditures

The approach used to count expenditures for flat fees was to place the expenditure on the first visit of the flat fee group. The remaining visits have zero payments. Thus, if the first visit in the flat fee group occurred prior to 1996, all of the events that occurred in 1996 will have zero payments. Conversely, if the first event in the flat fee group occurred at the end of 1996, the total expenditure for the entire flat fee group will be on that event, regardless of the number of events it covered after 1996.

2.5.4.6 Zero Expenditures

As noted above, there are some dental events reported by respondents where the payments were zero. This could occur for several reasons including (1) free care was provided, (2) bad debt was incurred, (3) care was covered under a flat fee arrangement beginning in an earlier year, or (4) follow-up visits were provided without a separate charge (e.g. after a surgical procedure). If all of the dental events for a person fell into one of these categories, then the total annual expenditures for that person would be zero.

2.5.4.7 Sources of Payment

In addition to total expenditures, variables are provided which itemize expenditures according to major source of payment categories. These categories are:

- 1. Out of pocket by user or family
- 2. Medicare

- 3. Medicaid
- 4. Private Insurance
- 5. Veteran's Administration, excluding CHAMPVA
- 6. CHAMPUS or CHAMPVA
- 7. Other Federal sources includes Indian Health Service, Military Treatment Facilities, and other care by the Federal government
- 8. Other State and Local Source includes community and neighborhood clinics, State and local health departments, and State programs other than Medicaid.
- 9. Worker's Compensation
- 10. Other Unclassified Sources includes sources such as automobile, homeowner's, liability, and other miscellaneous or unknown sources.

Two additional source of payment variables were created to classify payments for particular persons that appear inconsistent due to differences between survey questions on health insurance coverage and sources of payment for medical events. These variables include:

- 11. Other Private any type of private insurance payments reported for persons not reported to have any private health insurance coverage during the year as defined in MEPS; and
- 12. Other Public Medicaid payments reported for persons who were not reported to be enrolled in the Medicaid program at any time during the year.

Though relatively small in magnitude, users should exercise caution when interpreting the expenditures associated with these two additional sources of payment. While these payments stem from apparent inconsistent responses to health insurance and source of payment questions in the survey, some of these inconsistencies may have logical explanations. For example, private insurance coverage in MEPS is defined as having a major medical plan covering hospital and physician services. If a MEPS sampled person did not have such coverage but had a single service type insurance plan (e.g. dental insurance) that paid for a particular episode of care, those payments may be classified as "other private". Some of the "other public" payments may stem from confusion between Medicaid and other state and local programs or may be from persons who were not enrolled in Medicaid, but were presumed eligible by a provider who ultimately received payments from the program.

Users should also note that the Other Public and Other private source of payment categories only exist on File 1 for imputed expenditure data since they were created through the editing/imputation process. File 2 reflects source of payment as it was collected through the survey.

2.5.4.9 Imputed Dental Expenditures (DVFS96X-DVOT96X, DVXP96X, DVTC96X)

Dental expenses include all expenses for direct dental care.

Dental expenditures were obtained only through the Household Component Survey. For cases with missing expenditure data, dental expenditures were imputed using the procedures described above. There are a number of expenditure variables provided on this file. DVFS96X - DVOT96X are the 12 sources of payment, DVTC96X is the total charge, and DVXP96X is the sum of the 12 sources of payments for the dental expenditure. The 12 sources of payment are: self/family, Medicare, Medicaid, private insurance, Veterans Administration, CHAMPUS/CHAMPVA, other federal, state/local governments, Workman's Compensation, other private insurance, other public insurance and other insurance.

2.5.4.10 Rounding

Expenditure variables on File 1 have been rounded to the nearest penny. Person level expenditure information released on HC-011 were rounded to the nearest dollar. It should be noted that using the MEPS event files HC-010A through HC-010H to create person level totals will yield slightly different totals than those found on HC-011. These differences are due to rounding only. Moreover, in some instances, the number of persons having expenditures on the event files (HC-010A - HC-010H) for a particular source of payment may differ from the number of persons with expenditures on the person level expenditure file (HC-011) for that source of payment. This difference is also an artifact of rounding only. Please see the Appendix File for details on such rounding differences.

2.5.4.11 Imputation Flags

The variables IMPDVSLF - IMPDVCHG identify records where the expenditures have been imputed using the methodologies outlined in this document. When a record was identified as being the leaf of a flat fee the values of all imputation flags were set to "0" (not imputed) since they were not included in the imputation process

2.6 File 2 Contents: Pre-imputed Expenditure Variables

Pre-imputed expenditure data are provided on this file. Pre-imputed means that only a series of logical edits were applied to the data to correct for several problems including outliers, copayments or charges reported as total payments, and reimbursed amounts counted as out of pocket payments. Edits were also implemented to correct for misclassifications between Medicare and Medicaid and between Medicare HMO's and private HMO's as payment sources as well as a number of other data inconsistencies that could be resolved through logical edits. This file contains no imputed data.

Included in File 2 is the variable HHSFFIDX, which is the original flat fee identifier that was derived during the household interview. This identifier should only be used if the analyst is interested in performing their own expenditure imputation.

The user shall note that there are 10 sources of payment variables in the pre-imputed expenditure data, while the imputed expenditure data on File 1 contains 12 sources of payment variables. The additional two sources of payment (which are not reported as separate sources of payment through the data collection) are Other Private and Other Public. These source of payment categories were constructed to resolve apparent inconsistencies between individuals' reported insurance coverage and their sources of payment for specific events File 2 also includes a variable indicating uncollected liability.

3.0 Sample Weights and Variance Estimation Variables (WTDPER96-VARPSU96)

3.1 Overview

There is a single full year person-level weight (WTDPER96) included on this file. A person-level weight was assigned to each dental events reported by a key, in-scope person who responded to MEPS for the full period of time that he or she was in scope during 1996. A key person either was a member of an NHIS household at the time of the NHIS interview, or became a member of such a household after being out-of-scope at the time of the 1995 NHIS (examples of the latter situation include newborns and persons returning from military service, an institution, or living outside the United States). A person is in scope whenever he or she is a member of the civilian noninstitutionalized portion of the U.S. population.

3.2 Details on Person Weights Construction

The person-level weight WTDPER96 was developed using the MEPS Round 1 person-level weight as a base weight (for key, in scope respondents who joined an RU after Round 1, the Round 1 RU weight served as a base weight). The weighting process included an adjustment for nonresponse over Round 2 and the 1996 portion of Round 3, as well as poststratification to population control figures for December 1996 (these figures were derived by scaling the population totals obtained from the March 1997 Current Population Survey (CPS) to reflect the Census Bureau estimated population distribution across age and sex categories as of December, 1996). Variables used in the establishment of person-level poststratification control figures included: poverty status (below poverty, from 100 to 125 percent of poverty, from 125 to 200 percent of poverty, from 200 to 400 percent of poverty, at least 400 percent of poverty); census region (Northeast, Midwest, South, West); MSA status (MSA, non-MSA); race/ethnicity (Hispanic, black but non-Hispanic, and other); sex; and age. Overall, the weighted population estimate for the civilian non-institutionalized population for December 31, 1996 is 265,439,511

persons. The inclusion of key, in scope persons who were not in scope on December 31,1996 brings the estimated total number of persons represented by the MEPS respondents over the course of the year up to 268,905,490 (WTDPER96 > 0). The weighting process included poststratification to population totals obtained from the 1996 Medicare Current Beneficiary Survey (MCBS) for the number of deaths among Medicare beneficiaries in 1996, and poststratification to population totals obtained from the 1996 MEPS Nursing Home Component for the number of individuals admitted to nursing homes.

The MEPS Round 1 weights incorporated the following components: the original household probability of selection for the NHIS; ratio-adjustment to NHIS national population estimates at the household (occupied dwelling unit) level; adjustment for nonresponse at the dwelling unit level for Round 1; and poststratification to figures at the family- and person-level obtained from the March 1996 CPS database.

4.0 Strategies for Estimation

This file is constructed for efficient estimation of utilization, expenditure, and sources of payment for dental events and to allow for estimates of number of persons with dental utilization for 1996.

4.1 Variables with Missing Values

It is essential that the analyst examine all variables for the presence of negative values used to represent missing values. For example, a record with a value of -8 for the first ICD9 condition code (DVICD1X) indicates that the condition was reported as unknown.

For continuous or discrete variables, where means or totals may be taken, it may be necessary to set minus values to values appropriate to the analytic needs. That is, the analyst should either impute a value or set the value to one that will be interpreted as missing by the computing language used. For categorical and dichotomous variables, the analyst may want to consider whether to recode or impute a value for cases with negative values or whether to exclude or include such cases in the numerator and/or denominator when calculating proportions.

Methodologies used for the editing/imputation of expenditure variables (e.g. sources of payment, flat fee, and zero expenditures) are described in Section 2.5.4.

4.2 Basic Estimates of Utilization, Expenditure and Sources of Payment

While the examples described below illustrate the use of event level data in constructing person level total expenditures, these estimates can also be derived from the person level expenditure file unless the characteristic of interest is event specific.

In order to produce national estimates related to dental visits utilization, expenditure and sources of payment, the value in each record contributing to the estimates must be multiplied by the weight (WTDPER96) contained on that record.

Example 1:

For example, the total number of dental visits, for the civilian non-institutionalized population of the U.S. in 1996 is estimated as the sum of the weight (WTDPER96) across all dental visit records. That is,

$$\sum W_j = 294,539,798$$
 (1)

Subsetting to records based on characteristics of interest expands the scope of potential estimates. For example, the estimate for the mean out-of-pocket payment per dental visit should be calculated as the weighted average of amount paid by self/family. That is,

$$\overline{X} = (\sum W_j X_j)/(\sum W_j) = \$93.90,$$
 where $\sum W_j = 236,556,599$ and $X_j = \text{DVSF}96X_j$ for all records with $\text{DVXP}96X_j > 0$

This gives \$93.90 as the estimated mean amount of out-of-pocket payment of expenditures associated with dental visits and 236,556,599 as an estimate of the total number of dental visits with expenditure. Both of these estimates are for the civilian non-institutionalized population of the U.S. in 1996.

Another example would be to estimate the average proportion of total expenditures paid by private insurance per dental visit. This should be calculated as the weighted mean of the proportion of the total dental visit paid by private insurance at the dental visit. That is,

$$\overline{Y} = (\sum W_j Y_j)/(\sum W_j) = 0.4566,$$
where
$$\sum W_j = 236,556,599$$
and
$$Y_j = \text{DVPV}96\text{X}_j/\text{DVXP}96\text{X}_j \text{ for all records with DVXP}96\text{X}_j > 0$$

This gives 0.4566 as the estimated mean proportion of total expenditures paid by private insurance for dental visits for the civilian non-institutionalized population of the U.S. in 1996.

4.3 Estimates of the Number of Persons with Dental Visits

When calculating an estimate of the total number of persons with dental visits, users can use a person-level file (MEPS HC-011: Person Level Expenditures and Utilization) or this event file. However, this event file must be used when the measure of interest is defined at the event level. For example, to estimate the number of persons in the civilian non-institutionalized population of the U.S., with a dental visit in 1996 because of accident or injury, this event file must be used. This would be estimated as

$$\Sigma W_i X_i$$
 across all unique persons i on this file, (4) where W_i is the sampling weight (WTDPER96) for person i and $X_i = 1$ if DENTINJ =1 for any visit of person i = 0 otherwise

4.4 Person-Based Ratio Estimates

4.4.1 Person-Based Ratio Estimates Relative to Persons with Dental Visits

This file may be used to derive person-based ratio estimates. However, when calculating ratio estimates where the denominator is persons, care should be taken to properly define and estimate the unit of analysis up to person level. For example, the mean expense for persons with dental visits is estimated as,

$$(\Sigma W_i Z_i)/(\Sigma W_i)$$
 across all unique persons i on this file, (5) where W_i is the sampling weight (WTDPER96) for person i and $Z_i = \Sigma \, \text{DVXP96X}_i$ across all dental visits for person i

4.4.2 Person-Based Ratio Estimates Relative to the Entire Population

If the ratio relates to the entire population, this file cannot be used to calculate the denominator, as only those persons with at least one dental visit are represented on this data file. In this case MEPS File HC-011, which has data for all sampled persons, must be used to estimate the total number of persons (i.e. those with use and those without use). For example, to estimate the proportion of civilian non-institutionalized population of the U.S. with at least one dental visit with at least one dental visit due to accident or injury, the numerator would be derived from data on this event file, and the denominator would be derived from data on the MEPS HC-011 person-level file. That is,

 $(\Sigma W_i Z_i)/(\Sigma W_i)$ across all unique persons i on the MEPS HC-011 file, (6) where W_i is the sampling weight (WTDPER96) for person i and $Z_i = 1$ if DENTINJj =1 for any event of person i on the event-level file = 0 otherwise for all remaining persons on the MEPS HC-011 file

4.5 Sampling Weights for Merging Previous Releases of MEPS Household Data with the Current Data File

There have been several previous releases of MEPS Household Survey public use data. Unless a variable name common to several tapes is provided, the sampling weights contained on these data files are file-specific. The file-specific weights reflect minor adjustments to eligibility and response indicators due to birth, death, or institutionalization among respondents.

In general for estimates from a MEPS data file that do not require merging with variables from other MEPS data files, the sampling weight(s) provided on that data file are the appropriate weight(s). When merging a MEPS Household data file to another, the major analytical variable (i.e. the dependent variable) determines the correct sampling weight to use.

4.6 Variance Estimation

To obtain estimates of variability (such as the standard error of sample estimates or corresponding confidence intervals) for estimates based on MEPS survey data, one needs to take into account the complex sample design of MEPS. Various approaches can be used to develop such estimates of variance including use of the Taylor series or various replication methodologies. Replicate weights have not been developed for the MEPS 1996 data. Variables needed to implement a Taylor series estimation approach are described in the paragraph below.

Using a Taylor Series approach, variance estimation strata and the variance estimation PSUs within these strata must be specified. The corresponding variables on the MEPS full year utilization database are VARSTR96 and VARPSU96, respectively. Specifying a "with replacement" design in a computer software package such as SUDAAN (Shah, 1996) should provide standard errors appropriate for assessing the variability of MEPS survey estimates. It should be noted that the number of degrees of freedom associated with estimates of variability indicated by such a package may not appropriately reflect the actual number available. For MEPS sample estimates for characteristics generally distributed throughout the country (and thus the sample PSUs), there are

over 100 degrees of freedom associated with the corresponding estimates of variance. The following illustrates these concepts using two examples from section 4.2.

Example 2 from Section 4.2

Using a Taylor Series approach, specifying VARSTR96 and VARPSU96 as the variance estimation strata and PSUs (within these strata) respectively and specifying a "with replacement" design in a computer software package SUDAAN will yield the estimate of standard error of \$2.91 for the estimated mean of out-of-pocket payment.

Example 3 from Section 4.2

Using a Taylor Series approach, specifying VARSTR96 and VARPSU96 as the variance estimation strata and PSUs (within these strata) respectively and specifying a "with replacement" design in a computer software package SUDAAN will yield the estimate of standard error of 0.0084 for the weighted mean proportion of total expenditures paid by private insurance.

5.0 Merging/Linking MEPS Data Files

Data from this file can be used alone or in conjunction with other files. This section provides instructions for linking the dental file with other MEPS public use files, including: the conditions file, the prescribed medicines file, and a person-level file.

5.1 Linking a Person-Level File to the Dental File

Data from the dental event file can be used alone or in conjunction with other files. Merging characteristics of interest from other MEPS files (e.g., HC-008: 1996 Full Year Population Characteristics File or HC-010A:1996 Prescribed Medicines File) expands the scope of potential estimates. For example, to estimate the total number of dental events of persons with specific characteristics such as age, race, and sex, population characteristics from a person-level file need to be merged onto the dental file. This procedure is shown below. The Appendix File (HC:010I) provides additional detail on how to merge MEPS data files.

- 1. Create data set PERSX by sorting the person level file, HC008, by the person identifier, DUPERSID. Keep only variables to be merged on to the dental file and DUPERSID.
- 2. Create data set DENT by sorting the dental events file by person identifier, DUPERSID.

3. Create final data set NEWDENT by merging these two files by DUPERSID, keeping only records on the dental file.

The following is an example of SAS code which completes these steps:

```
PROC SORT DATA=HC008(KEEP=DUPERSID AGE SEX EDUC)
OUT=PERSX;
BY DUPERSID;
RUN;

PROC SORT DATA=DENT;
BY DUPERSID;
RUN;

DATA NEWDENT;
MERGE DENT (IN=A) PERSX(IN=B);
BY DUPERSID;
IF A;
RUN;
```

5.2 Linking the Dental File (HC-010B) to the Medical Conditions File (HC-006) and/or the Prescribed Medicines File (HC-010A)

Due to survey design issues, there are limitations/caveats that an analyst must keep in mind when linking the different files. Those limitations/caveats are listed below. For detailed linking examples, including SAS code, analysts should refer to the **Appendix File**.

5.2.1 Limitations/Caveats of RXLK (the Prescribed Medicine Link File)

The RXLK file provides a link from the MEPS event files to the prescribed medicine records on HC-010A. When using RXLK, analysts should keep in mind that one dental visit can link to more than one prescribed medicine record. Conversely, a prescribed medicine event may link to more than one dental visit or different types of events. When this occurs, it is up to the analyst to determine how the prescribed medicine expenditures should be allocated among those dental and/or medical events.

5.2.2 Limitations/Caveats of CLNK (the Medical Conditions Link File)

The CLNK provides a link from MEPS event files to the Medical Conditions File (HC-006). When using the CLNK, analysts should keep in mind that (1) conditions are self-reported and (2) there may be multiple conditions associated with a dental visit. Users should also note that not all dental visits link to the condition file.

6.0 Programming Information

The following are the technical specifications for the HC-010B data files, which are provided in ASCII and SAS formats.

ASCII versions:

File Name: HC10BF1.DAT Number of Observations: 22,165

Number of Variables: 97 Record Length: 339 Record Format: fixed

Record Identifier and Sort Key: EVNTIDX

File Name: HC10BF2.DAT Number of Observations: 22,165

Number of Variables: 20 Record Length: 131 Record Format: fixed

Record Identifier and Sort Key: EVNTIDX

SAS Transport versions:

File Name: HC10BF1.SSP SAS Name: HC10BF1

Number of Observations: 22,165

Number of Variables: 97

Record Identifier and Sort Key: EVNTIDX

File Name: HC10BF2.SSP SAS Name: HC10BF2

Number of Observations: 22,165

Number of Variables: 20

Record Identifier and Sort Key: EVNTIDX

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Attachment 1 Definitions

Dwelling Units, Reporting Units, Families, and Persons – The definitions of Dwelling Units (DUs) and Group Quarters in the MEPS Household Survey are generally consistent with the definitions employed for the National Health Interview Survey. The dwelling unit ID (DUID) is a five-digit random ID number assigned after the case was sampled for MEPS. The person number (PID) uniquely identifies all persons within the dwelling unit. The variable DUPERSID is the combination of the variables DUID and PID.

A Reporting Unit (RU) is a person or group of persons in the sampled dwelling unit who are related by blood, marriage, adoption or other family association, and who are to be interviewed as a group in MEPS. Thus, the RU serves chiefly as a family-based "survey operations" unit rather than an analytic unit. Regardless of the legal status of their association, two persons living together as a "family" unit were treated as a single reporting unit if they chose to be so identified.

Unmarried college students under 24 years of age who usually live in the sampled household, but were living away from home and going to school at the time of the Round 1 MEPS interview, were treated as a Reporting Unit separate from that of their parents for the purpose of data collection. These variables can be found on MEPS person level files.

In-Scope – A person was classified as in-scope (INSCOPE) if he or she was a member of the U.S. civilian, non-institutionalized population at some time during the Round 1 interview. This variable can be found on MEPS person level files.

Keyness –The term "keyness" is related to an individual's chance of being included in MEPS. A person is key if that person is appropriately linked to the set of 1995 NHIS sampled households designated for inclusion in MEPS. Specifically, a key person either was a member of an NHIS household at the time of the NHIS interview, or became a member of such a household after being out-of-scope prior to joining that household (examples of the latter situation include newborns and persons returning from military service, an institution, or living outside the United States).

A non-key person is one whose chance of selection for the NHIS (and MEPS) was associated with a household eligible but not sampled for the NHIS, who happened to have become a member of a MEPS reporting unit by the time of the MEPS Round 1 interview. MEPS data, (e.g., utilization and income) were collected for the period of time a non-key person was part of the sampled unit to permit family level analyses. However, non-key persons who leave a sample household would not be recontacted for subsequent interviews. Non-key individuals are not part of the target sample used to obtain person level national estimates.

It should be pointed out that a person may be key even though not part of the civilian, non-institutionalized portion of the U.S population. For example, a person in the military may be living with his or her civilian spouse and children in a household sampled for the 1995 NHIS. The

person in the military would be considered a key person for MEPS. However, such a person would not receive a person-level sample weight so long as he or she was in the military. All key persons who participated in the first round of the 1996 MEPS received a person level sample weight except those who were in the military. The variable indicating "keyness" is KEYNESS. This variable can be found on MEPS person level files.

Eligibility –The eligibility of a person for MEPS pertains to whether or not data were to be collected for that person. All key, in-scope persons of a sampled RU were eligible for data collection. The only non-key persons eligible for data collection were those who happened to be living in the same RU as one or more key persons, and their eligibility continued only for the time that they were living with a key person. The only out-of-scope persons eligible for data collection were those who were living with key in-scope persons, again only for the time they were living with a key person. Only military persons meet this description. A person was considered eligible if they were eligible at any time during Round 1. The variable indicating "eligibility" is ELIGRND1, where 1 is coded for persons eligible for data collection for at least a portion of the Round 1 reference period, and 2 is coded for persons not eligible for data collection at any time during the first round reference period. This variable can be found on MEPS person level files. **Pre-imputed** - This means that only a series of logical edits were applied to the HC data to correct for several problems including outliers, copayments or charges reported as total payments, and reimbursed amounts counted as out of pocket payments. Missing data remains.

Unimputed - This means that only a series of logical edits were applied to the MPC data to correct for several problems including outliers, copayments or charges reported as total payments, and reimbursed amounts counted as out of pocket payments. This data was used as the imputation source to account for missing HC data.

Imputation -Imputation is more often used for item missing data adjustment through the use of predictive models for the missing data, based on data available on the same (or similar) cases. Hot-deck imputation creates a data set with complete data for all nonrespondent cases, often by substituting the data from a respondent case that resembles the nonrespondent on certain known variables.

Household Reported Drug (mention) – A household reported drug is a unique prescribed medication reported by a household respondent. A household reported drug is checked on the prescribed medicines roster as being created during that round or selected from a roster from a previous round. Associated with each household reported drug mention in a given round may be multiple acquisitions of the medication during that round. Due to the editing and imputation procedures for these data, cases with multiple purchases of the same medication may be assigned more than one variant of the medication based on its form, strength, manufacturer, or package size (i.e., its National Drug Code). Thus, what originally was reported as a single medication in the Household Component may appear as multiple unique medications on the prescribed medicines event file.

D. Codebooks

DATE: July 28, 2000

ALPHABETICAL AND POSITIONAL LISTING OF VARIABLES

----ALPHABETICAL LISTING OF VARIABLES----

| START | END | NAME | DESCRIPTION |
|------------|------------|---------------------|---|
| 105 | 106 | ABSCESS | ABSCESS OR INFECTION TREATMENT |
| 111 | 112 | BRIDGES | BRIDGES |
| 109 | 110 | BRIDGESX | EDITED BRIDGES |
| 71 | 72 | CLENTETH | CLEANING, PROPHYLAXIS, OR POLISHING |
| 69 | 70 | CLENTETX | EDITED CLENTETH |
| 87 | 88 86 | CROWNS | CROWNS OR CAPS |
| 85 51 | | CROWNSX | EDITED CROWNS DENTAL HYGIENIST SEEN |
| | 52 182 | DENTHYG | VISIT BECAUSE OF ACCIDENT OR INJURY |
| 181 183 | 184 | DENTINJ DENTMED | RECEIVE MEDICINE INCLUDING FREE SAMPLE |
| 156 | 180 | DENTOTHR | OTHER SPECIFIED DENTAL PROCEDURES |
| 131 | 155 | DENTOTHX | EDITED DENTOTHR |
| 129 | 130 | DENTPROC | OTHER DENTAL PROCEDURES |
| 127 | 128 | DENTPROX | EDITED DENTPROC |
| 55 | 56 | DENTSURG | DENTAL SURGEON SEEN |
| 53 | 54 | DENTTECH | DENTAL TECHNICIAN SEEN |
| 115 | 116 | DENTURES | DENTURES OR PARTIAL DENTURES |
| 113 | 114 | DENTUREX | EDITED DENTURES |
| 63 | 64 | DENTYPE | OTHER DENTAL SPECIALIST SEEN |
| 1 | 5 | DUID | DWELLING UNIT ID |
| 9 | 16 | DUPERSID | PERSON ID (DUID+PID) |
| 195 | 197 | DVCCC1X | MODIFIED CLINICAL CLASSIFICATION CODE |
| 198 | 200 | DVCCC2X | MODIFIED CLINICAL CLASSIFICATION CODE |
| 249 | 254 | DVCH96X | AMOUNT PAID, CHAMPUS/CHAMPVA (IMPUTED) |
| 47 | 48 | DVDATEDD | EVENT DATE - DAY |
| 45 | 46 | DVDATEMM | EVENT DATE - MONTH |
| 41 | 44 187 | DVDATEYR | EVENT DATE - YEAR 3 DIGIT ICD-9 CONDITION CODE |
| 185 188 | 190 | DVICD1X DVICD2X | 3 DIGIT ICD-9 CONDITION CODE 3 DIGIT ICD-9 CONDITION CODE |
| 228 | 234 | DVMD96X | AMOUNT PAID, MEDICAID (IMPUTED) |
| 221 | 227 | DVMR96X | AMOUNT PAID, MEDICARE (IMPUTED) |
| 255 | 260 | DVOF96X | AMOUNT PAID, OTHER FEDERAL (IMPUTED) |
| 274 | 280 | DVOR96X | AMOUNT PAID, OTHER PRIVATE (IMPUTED) |
| 288 | 294 | DVOT96X | AMOUNT PAID, OTHER INSURANCE (IMPUTED) |
| 281 | 287 | DVOU96X | AMOUNT PAID, OTHER PUBLIC (IMPUTED) |
| 191 | 192 | DVPRO1X | 2 DIGIT ICD-9 PROCEDURE CODE |
| 193 | 194 | DVPRO2X | 2 DIGIT ICD-9 PROCEDURE CODE |
| 235 | 241 | DVPV96X | AMOUNT PAID, PRIVATE INSURANCE (IMPUTED) |
| 214 | 220 | DVSF96X | AMOUNT PAID, FAMILY (IMPUTED) |
| 261 | 267 | DVSL96X | AMOUNT PAID, STATE & LOCAL GOV (IMPUTED) |
| 302 | 309 | DVTC96X | HHLD REPORTED TOTAL CHARGE (IMPUTED) |
| 242 | 248 | DVVA96X | AMOUNT PAID, VETERANS (IMPUTED) |
| 268 295 | 273 301 | DVWC96X | AMOUNT PAID, WORKERS COMP (IMPUTED) |
| ∠95 59 | 60 | DVXP96X ENDODENT | SUM OF DVSF96X-DVOT96X (IMPUTED) ENDODONTIST SEEN |
| 29 | 29 | EVENTRN | EVENT ROUND NUMBER |
| 17 | 28 | EVENTEN | EVENT ID |
| 67 | 68 | EXAMINE | GENERAL EXAM OR CONSULTATION |
| 65 | 66 | EXAMINEX | EDITED EXAMINE |
| 101 | 102 | EXTRACT | EXTRACTION, TOOTH PULLED |
| 208 | 209 | FFBEF96 | # VISITS IN FF (ALL EVENTS) BEFORE 1996 |
| 204 | 205 | FFDV96 | # OF DN VISITS ÎN FLAT FFEE - 1996 |
| 210 | 211 | FFDV97 | # OF DN VISITS IN FF - 1997 THRU RD3 |
| 202 | 203 | FFDVTYPX | ED FLAT FEE STEM-LEAF INDICATOR |
| 30 | 40 | FFID11X | FLAT FEE ID |
| 206 | 207 | FFTOT96 | # VISITS IN FLAT FEE (ALL EVENTS) - 1996 |
| 212 | 213 | FFTOT97 | # VISITS IN FF (ALL EVENTS)-1997 THRU R3 |
| 81 70 | 82 | FILLING | FILLINGS |
| 79 | 80 | FILLINGX | EDITED FILLING |

DATE: July 28, 2000

ALPHABETICAL AND POSITIONAL LISTING OF VARIABLES

----ALPHABETICAL LISTING OF VARIABLES----

| START | END | NAME | DESCRIPTION |
|-------|-----|---------------------|---|
| 75 | 76 | FLUORIDE | FLUORIDE TREATMENT |
| 49 | 50 | GENDENT | GENERAL DENTIST SEEN |
| 95 | 96 | GUMSURG | PERDTL SCALING/ROOT PLANING OR GUM |
| 93 | 94 | GUMSURGX | EDITED GUMSURG |
| 322 | 322 | IMPDVCHG | IMPUTATION STATUS OF DVTC96X |
| 315 | 315 | IMPDVCHM | IMPUTATION FLAG FOR DVCH96X |
| 312 | 312 | IMPDVMCD | IMPUTATION FLAG FOR DVMD96X |
| 311 | 311 | IMPDVMCR | IMPUTATION FLAG FOR DVMR96X |
| 316 | 316 | IMPDVOFD | IMPUTATION FLAG FOR DVOF96X |
| 319 | 319 | | IMPUTATION FLAG FOR DVOR96X |
| 320 | 320 | IMPDVOPU | IMPUTATION FLAG FOR DVOU96X |
| 321 | 321 | IMPDVOSR | IMPUTATION FLAG FOR DVOT96X |
| 313 | 313 | | |
| 310 | 310 | IMPDVSLF | IMPUTATION FLAG FOR DVSF96X |
| 317 | 317 | IMPDVSTL | IMPUTATION FLAG FOR DVSL96X |
| 314 | 314 | IMPDVVA | IMPUTATION FLAG FOR DVVA96X |
| 318 | 318 | IMPDVWCP | IMPUTATION FLAG FOR DVWC96X |
| 103 | 104 | IMPLANT | IMPLANTS |
| 83 | 84 | INLAY | INLAYS |
| 73 | 74 | JUSTXRAY | X-RAYS, RADIOGRAPHS OR BITEWINGS |
| 201 | 201 | NUMCOND ORALSURG | TOTAL # COND RECORDS LINKED TO THIS EVNT |
| 107 | 108 | ORALSURG | ORAL SURGERY |
| 121 | 122 | ORTHDONT | ORTHODONTIA, BRACES OR RETAINERS |
| | 120 | ORTHDONX | EDITED ORTHDONT |
| 57 | 58 | ORTHODNT | ORTHODONTIST SEEN |
| 61 | 62 | PERIODNT | PERIODONTIST SEEN |
| 6 | 8 | PID | PERSON NUMBER |
| 99 | 100 | RECLVIS | PERIODONTAL RECALL VISIT |
| 97 | 98 | RECLVISX | EDITED RECLVIS |
| 117 | 118 | REPAIR | REPAIR BRIDGES/DENTURES OR RELINING |
| 91 | 92 | ROOTCANL | ROOT CANAL |
| 89 | 90 | ROOTCANX | |
| 77 | 78 | SEALANT | SEALANT APPLICATION |
| 125 | 126 | TMDTMJ | TREATMENT FOR TMD OR TMJ |
| 335 | 336 | VARPSU96 | TREATMENT FOR TMD OR TMJ VARIANCE ESTIMATION PSU,1996 |
| 337 | 339 | VARSTR96 | VARIANCE ESTIMATION STRATUM, 1996 |
| 123 | 124 | WHITEN | BONDING, WHITENING OR BLEACHING |
| 323 | 334 | WTDPER96 | POVERTY/MORTALITY ADJ PERS WEIGHT, 1996 |

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ALPHABETICAL AND POSITIONAL LISTING OF VARIABLES

----POSITIONAL LISTING OF VARIABLES----

| START | END | NAME | DESCRIPTION |
|-------|-----|----------|--|
| 1 | 5 | DUID | DWELLING UNIT ID |
| 6 | 8 | PID | PERSON NUMBER |
| 9 | 16 | DUPERSID | PERSON ID (DUID+PID) |
| 17 | 28 | EVNTIDX | EVENT ID |
| 29 | 29 | EVENTRN | EVENT ROUND NUMBER |
| 30 | 40 | FFID11X | FLAT FEE ID |
| 41 | 44 | DVDATEYR | EVENT DATE - YEAR |
| 45 | 46 | DVDATEMM | EVENT DATE - MONTH |
| 47 | 48 | DVDATEDD | EVENT DATE - DAY |
| 49 | 50 | GENDENT | GENERAL DENTIST SEEN |
| 51 | 52 | DENTHYG | DENTAL HYGIENIST SEEN |
| 53 | 54 | DENTTECH | DENTAL TECHNICIAN SEEN |
| 55 | 56 | DENTSURG | DENTAL SURGEON SEEN |
| 57 | 58 | ORTHODNT | ORTHODONTIST SEEN |
| 59 | 60 | ENDODENT | ENDODONTIST SEEN |
| 61 | 62 | PERIODNT | PERIODONTIST SEEN |
| 63 | 64 | DENTYPE | OTHER DENTAL SPECIALIST SEEN |
| 65 | 66 | EXAMINEX | EDITED EXAMINE |
| 67 | 68 | EXAMINE | GENERAL EXAM OR CONSULTATION |
| 69 | 70 | CLENTETX | EDITED CLENTETH |
| 71 | 72 | CLENTETH | CLEANING, PROPHYLAXIS, OR POLISHING |
| 73 | 74 | JUSTXRAY | X-RAYS, RADIOGRAPHS OR BITEWINGS |
| 75 | 76 | FLUORIDE | FLUORIDE TREATMENT |
| 77 | 78 | SEALANT | SEALANT APPLICATION |
| 79 | 80 | FILLINGX | EDITED FILLING |
| 81 | 82 | FILLING | FILLINGS |
| 83 | 84 | INLAY | INLAYS |
| 85 | 86 | CROWNSX | EDITED CROWNS |
| 87 | 88 | CROWNS | CROWNS OR CAPS |
| 89 | 90 | ROOTCANX | EDITED ROOTCANL |
| 91 | 92 | ROOTCANL | ROOT CANAL |
| 93 | 94 | GUMSURGX | EDITED GUMSURG |
| 95 | 96 | GUMSURG | PERDTL SCALING/ROOT PLANING OR GUM |
| 97 | 98 | RECLVISX | EDITED RECLVIS |
| 99 | 100 | RECLVIS | PERIODONTAL RECALL VISIT |
| 101 | 102 | EXTRACT | EXTRACTION, TOOTH PULLED |
| 103 | 104 | IMPLANT | IMPLANTS |
| 105 | 106 | ABSCESS | ABSCESS OR INFECTION TREATMENT |
| 107 | 108 | ORALSURG | ORAL SURGERY |
| 109 | 110 | BRIDGESX | EDITED BRIDGES |
| 111 | 112 | BRIDGES | BRIDGES |
| 113 | 114 | DENTUREX | EDITED DENTURES |
| 115 | 116 | DENTURES | DENTURES OR PARTIAL DENTURES |
| 117 | 118 | REPAIR | REPAIR BRIDGES/DENTURES OR RELINING |
| 119 | 120 | ORTHDONX | EDITED ORTHDONT |
| 121 | 122 | ORTHDONT | ORTHODONTIA, BRACES OR RETAINERS |
| 123 | 124 | WHITEN | BONDING, WHITENING OR BLEACHING |
| 125 | 126 | TMDTMJ | TREATMENT FOR TMD OR TMJ |
| 127 | 128 | DENTPROX | EDITED DENTPROC |
| 129 | 130 | DENTPROC | OTHER DENTAL PROCEDURES |
| 131 | 155 | DENTOTHX | EDITED DENTOTHR |
| 156 | 180 | DENTOTHR | OTHER SPECIFIED DENTAL PROCEDURES |
| 181 | 182 | DENTINJ | VISIT BECAUSE OF ACCIDENT OR INJURY |
| 183 | 184 | DENTMED | RECEIVE MEDICINE INCLUDING FREE SAMPLE |
| 185 | 187 | DVICD1X | 3 DIGIT ICD-9 CONDITION CODE |
| 188 | 190 | DVICD2X | 3 DIGIT ICD-9 CONDITION CODE |
| 191 | 192 | DVPRO1X | 2 DIGIT ICD-9 PROCEDURE CODE |
| 193 | 194 | DVPRO2X | 2 DIGIT ICD-9 PROCEDURE CODE |
| 195 | 197 | DVCCC1X | MODIFIED CLINICAL CLASSIFICATION CODE |
| | | | |

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ALPHABETICAL AND POSITIONAL LISTING OF VARIABLES

----POSITIONAL LISTING OF VARIABLES----

| START | END | NAME | DESCRIPTION |
|-------|-----|----------|--|
| 198 | 200 | DVCCC2X | MODIFIED CLINICAL CLASSIFICATION CODE |
| 201 | 201 | NUMCOND | TOTAL # COND RECORDS LINKED TO THIS EVNT |
| 202 | 203 | FFDVTYPX | ED FLAT FEE STEM-LEAF INDICATOR |
| 204 | 205 | FFDV96 | # OF DN VISITS IN FLAT FFEE - 1996 |
| 206 | 207 | FFTOT96 | # VISITS IN FLAT FEE (ALL EVENTS) - 1996 |
| 208 | 209 | FFBEF96 | # VISITS IN FF (ALL EVENTS) BEFORE 1996 |
| 210 | 211 | FFDV97 | # OF DN VISITS IN FF - 1997 THRU RD3 |
| 212 | 213 | FFTOT97 | # VISITS IN FF (ALL EVENTS)-1997 THRU R3 |
| 214 | 220 | DVSF96X | AMOUNT PAID, FAMILY (IMPUTED) |
| 221 | 227 | DVMR96X | AMOUNT PAID, MEDICARE (IMPUTED) |
| 228 | 234 | DVMD96X | AMOUNT PAID, MEDICAID (IMPUTED) |
| 235 | 241 | DVPV96X | AMOUNT PAID, PRIVATE INSURANCE (IMPUTED) |
| 242 | 248 | DVVA96X | AMOUNT PAID, VETERANS (IMPUTED) |
| 249 | 254 | DVCH96X | AMOUNT PAID, CHAMPUS/CHAMPVA (IMPUTED) |
| 255 | 260 | DVOF96X | AMOUNT PAID, OTHER FEDERAL (IMPUTED) |
| 261 | 267 | DVSL96X | AMOUNT PAID, STATE & LOCAL GOV (IMPUTED) |
| 268 | 273 | DVWC96X | AMOUNT PAID, WORKERS COMP (IMPUTED) |
| 274 | 280 | DVOR96X | AMOUNT PAID, OTHER PRIVATE (IMPUTED) |
| 281 | 287 | DVOU96X | AMOUNT PAID, OTHER PUBLIC (IMPUTED) |
| 288 | 294 | DVOT96X | AMOUNT PAID, OTHER INSURANCE (IMPUTED) |
| 295 | 301 | DVXP96X | SUM OF DVSF96X-DVOT96X (IMPUTED) |
| 302 | 309 | DVTC96X | HHLD REPORTED TOTAL CHARGE (IMPUTED) |
| 310 | 310 | IMPDVSLF | IMPUTATION FLAG FOR DVSF96X |
| 311 | 311 | IMPDVMCR | IMPUTATION FLAG FOR DVMR96X |
| 312 | 312 | IMPDVMCD | IMPUTATION FLAG FOR DVMD96X |
| 313 | 313 | IMPDVPRV | IMPUTATION FLAG FOR DVPV96X |
| 314 | 314 | IMPDVVA | IMPUTATION FLAG FOR DVVA96X |
| 315 | 315 | IMPDVCHM | IMPUTATION FLAG FOR DVCH96X |
| 316 | 316 | IMPDVOFD | IMPUTATION FLAG FOR DVOF96X |
| 317 | 317 | IMPDVSTL | IMPUTATION FLAG FOR DVSL96X |
| 318 | 318 | IMPDVWCP | IMPUTATION FLAG FOR DVWC96X |
| 319 | 319 | IMPDVOPR | IMPUTATION FLAG FOR DVOR96X |
| 320 | 320 | IMPDVOPU | IMPUTATION FLAG FOR DVOU96X |
| 321 | 321 | IMPDVOSR | IMPUTATION FLAG FOR DVOT96X |
| 322 | 322 | IMPDVCHG | IMPUTATION STATUS OF DVTC96X |
| 323 | 334 | WTDPER96 | POVERTY/MORTALITY ADJ PERS WEIGHT, 1996 |
| 335 | 336 | VARPSU96 | VARIANCE ESTIMATION PSU,1996 |
| 337 | 339 | VARSTR96 | VARIANCE ESTIMATION STRATUM, 1996 |

| NAME | DESCRIPTION | FO | ORMAT TYPE | START END |
|----------|--------------------------------------|------------------------------------|------------|---|
| DUID | DWELLING UNIT ID | | 5.0 NUM | 15 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | VALID ID TOTAL | 22,165 22,165 | | 294,539,798 294,539,798 |
| PID | PERSON NUMBER | - <u></u> | 3.0 NUM | 68 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | VALID ID TOTAL | 22,165 22,165 | | 294,539,798 294,539,798 |
| DUPERSID | PERSON ID (DUID+PID) | | 8.0 CHAR | 916 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | VALID ID TOTAL | 22,165 22,165 | | 294,539,798 294,539,798 |
| EVNTIDX_ | EVENT ID | <u> </u> | 12.0 CHAR | 1728 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | VALID ID TOTAL | 22,165 22,165 | | 294,539,798 294,539,798 |
| EVENTRN_ | EVENT ROUND NUMBER | | 1.0 NUM | 2929 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | 1 2 3 TOTAL | 7,677 10,305 4,183 22,165 | | 102,262,508 136,894,437 55,382,853 294,539,798 |
| FFID11X | FLAT FEE ID | | 11.0 CHAR | 3040 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | -1 INAPPLICABLE VALID ID TOTAL | 17,819 4,346 22,165 | | 234,821,408 59,718,390 294,539,798 |

| NAME | DESCRIPTION | FO | RMAT TYPE | START END |
|----------|--|--|-----------|--|
| DVDATEYR | EVENT DATE - YEAR | | 4.0 NUM | 4144 |
| | VALUE | UNWEIGHTED | WEIGHTE | ED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK -7 REFUSED 1996 TOTAL | 36 8 2 22,119 22,165 | | 355,543 101,885 23,983 294,058,386 294,539,798 |
| DVDATEMM | EVENT DATE - MONTH | | 2.0 NUM | <u>45</u> 46 |
| | VALUE | UNWEIGHTED | WEIGHTE | ED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 - 12 TOTAL | 58 12 22,095 22,165 | | 688,776 115,270 293,735,752 294,539,798 |
| DVDATEDD | EVENT DATE - DAY | | 2.0 NUM | <u>47</u> 48 |
| | VALUE | UNWEIGHTED | WEIGHTE | ED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK -7 REFUSED 1 - 31 TOTAL | 86 1,473 3 20,603 22,165 | | 1,131,434 19,091,463 34,546 274,282,355 294,539,798 |
| GENDENT_ | GENERAL DENTIST SEEN | | | 4950 |
| | VALUE | UNWEIGHTED | WEIGHTE | ED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 199 16 16,360 5,590 22,165 | | 2,776,885 105,917 216,383,373 75,273,622 294,539,798 |
| DENTHYG | DENTAL HYGIENIST SEEN | | 2.0 NUM | 5152 |
| | VALUE | UNWEIGHTED | WEIGHTE | ED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 199 16 5,395 16,555 22,165 | | 2,776,885 105,917 73,555,562 218,101,433 294,539,798 |

| NAME | DESCRIPTION | FC | ORMAT TYPE STARTEND |
|----------|---|--|--|
| DENTTECH | DENTAL TECHNICIAN SEEN | | 2.0 NUM5354 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 199 16 934 21,016 22,165 | 2,776,885 105,917 12,327,862 279,329,133 294,539,798 |
| DENTSURG | DENTAL SURGEON SEEN | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 199 16 769 21,181 22,165 | 2,776,885 105,917 10,229,646 281,427,349 294,539,798 |
| ORTHODNT | ORTHODONTIST SEEN | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 199 16 2,889 19,061 22,165 | 2,776,885 105,917 39,773,604 251,883,391 294,539,798 |
| ENDODENT | ENDODONTIST SEEN | | 2.0 NUM 59 60 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 199 16 198 21,752 22,165 | 2,776,885 105,917 2,817,292 288,839,703 294,539,798 |
| PERIODNT | PERIODONTIST SEEN | | 2.0 NUM 61 62 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 199 16 415 21,535 22,165 | 2,776,885 105,917 5,539,181 286,117,814 294,539,798 |

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| NAME | DESCRIPTION | FO | RMAT TYPE STARTEND |
|----------|---|--|---|
| DENTYPE | OTHER DENTAL SPECIALIST SEEN | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 199 16 433 21,517 22,165 | 2,776,885 105,917 5,697,799 285,959,196 294,539,798 |
| EXAMINEX | EDITED EXAMINE | | 2.0 NUM6566 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 10,280 11,767 22,165 | 1,122,321 257,305 137,784,427 155,375,745 294,539,798 |
| EXAMINE_ | GENERAL EXAM OR CONSULTATION | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 10,279 11,768 22,165 | 1,122,321 257,305 137,775,768 155,384,403 294,539,798 |
| CLENTETX | EDITED CLENTETH | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 8,853 13,194 22,165 | 1,122,321 257,305 119,002,544 174,157,628 294,539,798 |
| CLENTETH | CLEANING, PROPHYLAXIS, OR POLISHING | | 2.0 NUM 71 72 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 8,851 13,196 22,165 | 1,122,321 257,305 118,978,628 174,181,544 294,539,798 |

D1-8

| NAME | DESCRIPTION | FC | RMAT TYPE START END |
|----------|---|---------------------------------------|--|
| JUSTXRAY | X-RAYS, RADIOGRAPHS OR BITEWINGS | | 2.0 NUM7374 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 4,688 17,359 22,165 | 1,122,321 257,305 61,936,899 231,223,272 294,539,798 |
| FLUORIDE | FLUORIDE TREATMENT | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 1,371 20,676 22,165 | 1,122,321 257,305 18,113,443 275,046,728 294,539,798 |
| SEALANT | SEALANT APPLICATION | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 276 21,771 22,165 | 1,122,321 257,305 3,311,687 289,848,485 294,539,798 |
| FILLINGX | EDITED FILLING | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 3,105 18,942 22,165 | 1,122,321 257,305 39,875,651 253,284,521 294,539,798 |
| FILLING_ | FILLINGS | | 2.0 NUM 81 82 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 3,093 18,954 22,165 | 1,122,321 257,305 39,683,151 253,477,021 294,539,798 |

| NAME | DESCRIPTION | FC | RMAT T | YPE STARI | END |
|----------|---|---------------------------------------|--------|-------------|---|
| INLAY | INLAYS | | 2.0 1 | NUM83 | 84 |
| | VALUE | UNWEIGHTED | WEIG | GHTED BY W | TDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 53 21,994 22,165 | | 292, | 122,321 257,305 644,212 515,960 539,798 |
| CROWNSX | EDITED CROWNS | | 2.0 1 | NUM 85 | 86 |
| | VALUE | UNWEIGHTED | WEIG | GHTED BY W | TDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 1,568 20,479 22,165 | | 21, 271, | 122,321 257,305 558,920 601,252 539,798 |
| CROWNS | CROWNS OR CAPS | | 2.0 _1 | NUM87 | 88 |
| | VALUE | UNWEIGHTED | WEIG | GHTED BY W | TDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 1,567 20,480 22,165 | | 21, 271, | 122,321 257,305 548,247 611,925 539,798 |
| ROOTCANX | EDITED ROOTCANL | | 2.0 1 | NUM89 | 90 |
| | VALUE | UNWEIGHTED | WEIG | GHTED BY W | TDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 803 21,244 22,165 | | 10, 282, | 122,321 257,305 306,973 853,199 539,798 |
| ROOTCANL | ROOT CANAL | | 2.0 1 | NUM91 | 92 |
| | VALUE | UNWEIGHTED | WEIG | GHTED BY W | TDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 799 21,248 22,165 | | 10, 282, | 122,321 257,305 236,096 924,075 539,798 |

| NAME | DESCRIPTION | FO | RMAT TYPE START END |
|----------|---|---------------------------------------|--|
| GUMSURGX | EDITED GUMSURG | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 346 21,701 22,165 | 1,122,321 257,305 4,245,640 288,914,532 294,539,798 |
| GUMSURG_ | PERDTL SCALING/ROOT PLANING OR GUM | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 340 21,707 22,165 | 1,122,321 257,305 4,153,888 289,006,284 294,539,798 |
| RECLVISX | EDITED RECLVIS | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 254 21,793 22,165 | 1,122,321 257,305 3,284,499 289,875,673 294,539,798 |
| RECLVIS_ | PERIODONTAL RECALL VISIT | | 2.0 NUM 99 100 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 203 21,844 22,165 | 1,122,321 257,305 2,560,652 290,599,520 294,539,798 |
| EXTRACT_ | EXTRACTION, TOOTH PULLED | | 2.0 NUM 101 102 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 1,172 20,875 22,165 | 1,122,321 257,305 14,569,677 278,590,494 294,539,798 |

| NAME | DESCRIPTION | FC | RMAT TYPE START END |
|----------|---|-------------------------------------|---|
| IMPLANT_ | IMPLANTS | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 63 21,984 22,165 | 1,122,321 257,305 868,545 292,291,627 294,539,798 |
| ABSCESS | ABSCESS OR INFECTION TREATMENT | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 292 21,755 22,165 | 1,122,321 257,305 3,772,029 289,388,143 294,539,798 |
| ORALSURG | ORAL SURGERY | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 154 21,893 22,165 | 1,122,321 257,305 2,002,978 291,157,194 294,539,798 |
| BRIDGESX | EDITED BRIDGES | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 228 21,819 22,165 | 1,122,321 257,305 2,915,021 290,245,150 294,539,798 |
| BRIDGES_ | BRIDGES | | 2.0 NUM 111 112 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 227 21,820 22,165 | 1,122,321 257,305 2,900,548 290,259,624 294,539,798 |

| NAME | DESCRIPTION | FO | RMAT TYPE S | START END |
|----------|---|---------------------------------------|-------------|--|
| DENTUREX | EDITED DENTURES | | 2.0 NUM | 113114 |
| | VALUE | UNWEIGHTED | WEIGHTED | BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 395 21,652 22,165 | | 1,122,321 257,305 5,176,930 287,983,241 294,539,798 |
| DENTURES | DENTURES OR PARTIAL DENTURES | | _2.0 _NUM _ | 115116 |
| | VALUE | UNWEIGHTED | WEIGHTED | BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 389 21,658 22,165 | | 1,122,321 257,305 5,097,624 288,062,548 294,539,798 |
| REPAIR | REPAIR BRIDGES/DENTURES OR RELINING | | | 117118 |
| | VALUE | UNWEIGHTED | WEIGHTED | BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 412 21,635 22,165 | | 1,122,321 257,305 5,689,324 287,470,848 294,539,798 |
| ORTHDONX | EDITED ORTHDONT | | _2.0 _NUM _ | 119 120 |
| | VALUE | UNWEIGHTED | WEIGHTED | BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 2,470 19,577 22,165 | | 1,122,321 257,305 33,892,865 259,267,306 294,539,798 |
| ORTHDONT | ORTHODONTIA, BRACES OR RETAINERS | | _2.0 _NUM _ | 121122 |
| | VALUE | UNWEIGHTED | WEIGHTED | BY WTDPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 2,464 19,583 22,165 | | 1,122,321 257,305 33,845,976 259,314,196 294,539,798 |

| NAME | DESCRIPTION | FO | RMAT | TYPE | START | END |
|----------|---|-------------------------------------|------|--------|-------------------|--|
| WHITEN | BONDING, WHITENING OR BLEACHING | | 2.0 | _NUM | 123 | 124 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 136 21,911 22,165 | | | 1,8 291,2 | 22,321 57,305 80,747 79,424 39,798 |
| | | | | | | |
| TMDTMJ | TREATMENT FOR TMD OR TMJ | | 2.0 | _NUM | 125 | |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 92 26 44 22,003 22,165 | | | 2 6 292,5 | 22,321 57,305 23,858 36,314 39,798 |
| DENTPROX | EDITED DENTPROC | | 2.0 | _NUM | 127 | 128 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 93 26 374 21,672 22,165 | | | 2 5,0 288,1 | 28,947 57,305 06,352 47,194 39,798 |
| DENTPROC | OTHER DENTAL PROCEDURES | | 2.0 | _NUM | 129 | 130 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED -8 DK 1 YES 2 NO TOTAL | 93 26 468 21,578 22,165 | | | 6,3 286,8 | 28,947 57,305 30,157 23,389 39,798 |
| DENTOTHX | EDITED DENTOTHR | | 25.0 | CHAR | 131 | 155 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | -1 INAPPLICABLE -8 DK -9 NOT ASCERTAINED TEXT TOTAL | 21,791 1 10 363 22,165 | | | 1 4,8 | 33,446 2,745 41,369 62,237 39,798 |

| NAME | DESCRIPTION | FC | ORMAT | TYPE | START | END |
|----------|--|------------------|-------|--------|---------|------------------|
| DENTOTHR | OTHER SPECIFIED DENTAL PROCEDURES | | 25.0 | CHAR | 156 | 180 |
| | VALUE | UNWEIGHTED | ¥ | EIGHTE | D BY WT | DPER96 |
| | -1 INAPPLICABLE -8 DK | 21,699 1 | | | 288,2 | 27,399 2,745 |
| | -9 NOT ASCERTAINED | 7 | | | | 01,464 |
| | TEXT TOTAL | 458 22,165 | | | | 08,190 39,798 |
| DENTINJ | VISIT BECAUSE OF ACCIDENT OR INJURY | | 2.0 | _NUM | 181 | 182 |
| | VALUE | UNWEIGHTED | ¥ | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED | 266 | | | | 11,676 |
| | -8 DK -7 REFUSED | 5 4 | | | | 97,921 19,369 |
| | 1 YES | 484 | | | 6,4 | 97,214 |
| | 2 NO TOTAL | 21,406 22,165 | | | | 13,617 39,798 |
| | TOTAL | 22,165 | | | 294,5 | 39,790 |
| DENTMED | RECEIVE MEDICINE INCLUDING FREE SAMPLE | | 2.0 | _NUM | 183 | 184 |
| | VALUE | UNWEIGHTED | ¥ | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED | 299 | | | | 44,433 |
| | -8 DK -7 REFUSED | 22 4 | | | | 80,178 19,369 |
| | 1 YES | 1,577 | | | | 40,456 |
| | 2 NO | 20,263 | | | | 55,361 |
| | TOTAL | 22,165 | | | 294,5 | 39,798 |
| DVICD1X_ | 3 DIGIT ICD-9 CONDITION CODE | | 3.0 | CHAR | 185 | 187 |
| | VALUE | UNWEIGHTED | ¥ | EIGHTE | D BY WT | DPER96 |
| | -1 INAPPLICABLE | 21,702 | | | | 80,673 |
| | -8 DK 079 - V72 | 11 452 | | | | 21,037 38,088 |
| | TOTAL | 22,165 | | | | 39,798 |
| DVICD2X_ | 3 DIGIT ICD-9 CONDITION CODE | _ | 3.0 | CHAR | 188 | 190 |
| | VALUE | UNWEIGHTED | ¥ | EIGHTE | D BY WT | DPER96 |
| | -1 INAPPLICABLE | 22,150 | | | | 38,916 |
| | 525 - 998 | 15 | | | 204 5 | 00,882 |
| | TOTAL | 22,165 | | | 494,5 | 39,798 |

| NAME | DESCRIPTION | FO | RMAT TYPE STARTEND |
|----------|--|----------------|--------------------------|
| DVPRO1X_ | 2 DIGIT ICD-9 PROCEDURE CODE | | 2.0 CHAR 191 192 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -1 INAPPLICABLE | 22,132 | 294,148,636 |
| | 23 - 96 TOTAL | 33 22,165 | 391,162 294,539,798 |
| | | | |
| DVPRO2X_ | 2 DIGIT ICD-9 PROCEDURE CODE | | 2.0 CHAR 193 194 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -1 INAPPLICABLE 23 | 22,164 1 | 294,531,267 8,530 |
| | TOTAL | 22,165 | 294,539,798 |
| DVCCC1X_ | MODIFIED CLINICAL CLASSIFICATION CODE | | _3.0 CHAR195197 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -1 INAPPLICABLE | 21,702 | 288,280,673 |
| | -8 DK 007 - 257 | 11 452 | 121,037 6,138,088 |
| | TOTAL | 22,165 | 294,539,798 |
| DVCCC2X_ | MODIFIED CLINICAL CLASSIFICATION CODE | | _3.0 CHAR198200 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -1 INAPPLICABLE | 22,150 | 294,338,916 |
| | 136 - 239 TOTAL | 15 22,165 | 200,882 294,539,798 |
| | | | |
| NUMCOND_ | TOTAL # COND RECORDS LINKED TO THIS EVNT | | _1.0 _NUM201201 |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | 0 1 | 21,674 474 | 287,951,775 6,360,290 |
| | 2 | 16 | 217,551 |
| | 3 TOTAL | 1 22,165 | 10,182 294,539,798 |
| | | | |
| FFDVTYPX | ED FLAT FEE STEM-LEAF INDICATOR | | |
| | VALUE | UNWEIGHTED | WEIGHTED BY WTDPER96 |
| | -1 INAPPLICABLE | 17,819 | 234,821,408 |
| | 1 FLAT FEE STEM 2 FLAT FEE LEAF | 1,175 3,171 | 16,054,706 43,663,684 |
| | TOTAL | 22,165 | 294,539,798 |

| NAME | DESCRIPTION | FO | RMAT | TYPE | START | END |
|---------|--|-----------------|------|--------|---------|------------------|
| FFDV96 | # OF DN VISITS IN FLAT FFEE - 1996 | | 2.0 | _NUM | 204 | 205 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | -1 INAPPLICABLE 1 - 17 | 17,819 4,346 | | | | 21,408 18,390 |
| | TOTAL | 22,165 | | | | 39,798 |
| FFTOT96 | # VISITS IN FLAT FEE (ALL EVENTS) - 1996 | | 2.0 | _NUM | 206 | 207 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | -1 INAPPLICABLE 1 - 17 | 17,819 4,346 | | | | 21,408 18,390 |
| | TOTAL | 22,165 | | | | 39,798 |
| | | | | | | |
| FFBEF96 | # VISITS IN FF (ALL EVENTS) BEFORE 1996 | | | | 208 | |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | |
| | -9 NOT ASCERTAINED -8 DK | 11 151 | | | | 61,976 46,645 |
| | -1 INAPPLICABLE | 17,819 | | | 234,8 | 21,408 |
| | 0 1 - 99 | 2,758 1,426 | | | | 80,913 28,856 |
| | TOTAL | 22,165 | | | | 39,798 |
| FFDV97 | # OF DN VISITS IN FF - 1997 THRU RD3 | | 2.0 | NUM | 210 | 211 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | -1 INAPPLICABLE | 17,819 | | | | 21,408 |
| | 0 1 - 8 | 3,039 1,307 | | | | 23,508 94,882 |
| | TOTAL | 22,165 | | | | 39,798 |
| FFTOT97 | # VISITS IN FF (ALL EVENTS)-1997 THRU R3 | | 2.0 | _NUM | 212 | 213 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | -1 INAPPLICABLE | 17,819 | | | | 21,408 |
| | 0 1 - 8 | 3,039 1,307 | | | | 23,508 94,882 |
| | TOTAL | 22,165 | | | | 39,798 |
| | | | | | | |

| NAME | DESCRIPTION | FC | RMAT | TYPE | START | END |
|----------|--|--------------|------|--------|---------------|------------------|
| DVSF96X | AMOUNT PAID, FAMILY (IMPUTED) | | 7.2 | _NUM | 214 | 220 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | 0 | 10,739 | | | 140.8 | 96,475 |
| | \$0.96 - \$25.00 | 2,906 | | | | 66,431 |
| | \$25.01 - \$57.00 | 2,861 | | | | 66,426 |
| | \$57.01 - \$105.00 | 2,803 | | | | 05,002 |
| | \$105.01- \$8100.00 | 2,856 | | | | 05,463 |
| | TOTAL | 22,165 | | | 294,5 | 39,798 |
| DVMR96X_ | AMOUNT PAID, MEDICARE (IMPUTED) | | 7.2 | NUM | 221 | 227 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | • | 00 112 | | | 202.0 | 66 460 |
| | 0 | 22,113 13 | | | | 66,462 11,955 |
| | \$4.00 - \$30.50 \$30.51 - \$59.00 | 14 | | | | 78,957 |
| | \$59.01 - \$76.50 | 12 | | | | 42,951 |
| | \$76.51 - \$2850.00 | 13 | | | | 39,473 |
| | TOTAL | 22,165 | | | | 39,798 |
| | | • | | | • | - |
| DVMD96X_ | AMOUNT PAID, MEDICAID (IMPUTED) | | 7.2 | _NUM | 228 | 234 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | .0 | 20,739 | | | | 59,264 |
| | \$0.58 - \$33.64 | 365 | | | | 93,835 |
| | \$33.65 - \$47.56 | 349 | | | | 62,675 |
| | \$47.57 - \$80.62 \$80.63 - \$1972.00 | 356 356 | | | | 07,356 16,668 |
| | TOTAL | 22,165 | | | | 39,798 |
| | 1011111 | 22,103 | | | 231,3 | 33,730 |
| DVPV96X | AMOUNT PAID, PRIVATE INSURANCE (IMPUTED) | | 7.2 | _NUM | 235 | 241 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | 0 | 12,936 | | | | 13,131 |
| | \$1.00 - \$50.00 | 2,409 | | | | 04,298 |
| | \$50.01 - \$71.00 | 2,212 | | | 30,2 | 37,272 |
| | \$71.01 - \$112.00 | 2,304 | | | | 75,496 |
| | \$112.01- \$6421.00 | 2,304 | | | | 09,601 |
| | TOTAL | 22,165 | | | 294,5 | 39,798 |
| DVVA96X_ | AMOUNT PAID, VETERANS (IMPUTED) | | 7.2 | _NUM | 242 | 248 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | 0 | 22,102 | | | 293,6 | 53,665 |
| | \$3.50 - \$30.50 | 16 | | | 2 | 36,299 |
| | \$30.51 - \$52.00 | 16 | | | | 08,622 |
| | \$52.01 - \$97.00 | 16 | | | | 19,347 |
| | \$97.01 - \$2240.00 | 15 | | | 204 5 | 21,864 |
| | TOTAL | 22,165 | | | ∠94, 5 | 39,798 |

| NAME | DESCRIPTION | FC | RMAT TYPE | START END |
|----------|--|--------------|-----------|------------------------|
| DVCH96X | AMOUNT PAID, CHAMPUS/CHAMPVA (IMPUTED) | | 6.2 NUM | 249 254 |
| | VALUE | UNWEIGHTED | WEIGHTEI | BY WTDPER96 |
| | 0 | 22,150 | | 294,330,707 |
| | \$10.94 - \$17.50 \$17.51 - \$40.00 | 4 4 | | 83,870 38,374 |
| | \$40.01 - \$65.00 | 5 | | 51,937 |
| | \$65.01 - \$237.00 TOTAL | 2 22,165 | | 34,909 294,539,798 |
| | TOTAL | 22,103 | | 294,339,790 |
| DVOF96X_ | AMOUNT PAID,OTHER FEDERAL (IMPUTED) | | 6.2 NUM | 255260 |
| | VALUE | UNWEIGHTED | WEIGHTEI | BY WTDPER96 |
| | 0 | 22,130 9 | | 294,235,024 |
| | \$5.00 - \$22.00 \$22.01 - \$51.00 | 9 | | 95,853 50,123 |
| | \$51.01 - \$68.00 \$68.01 - \$800.00 | 10 7 | | 112,016 46,782 |
| | TOTAL | 22,165 | | 294,539,798 |
| | | | | |
| DVSL96X | AMOUNT PAID, STATE & LOCAL GOV (IMPUTED) | | | <u>261</u> <u>267</u> |
| | VALUE | UNWEIGHTED | WEIGHTEI | BY WTDPER96 |
| | 0 | 22,128 | | 294,024,236 |
| | \$0.22 - \$40.00 \$40.01 - \$55.00 | 10 10 | | 163,108 125,220 |
| | \$55.01 - \$118.00 | 10 | | 160,897 |
| | \$118.01- \$1114.00 TOTAL | 7 22,165 | | 66,337 294,539,798 |
| | | • | | |
| DVWC96X_ | AMOUNT PAID, WORKERS COMP (IMPUTED) | | 6.2 NUM | <u>268</u> <u>273</u> |
| | VALUE | UNWEIGHTED | WEIGHTEI | BY WTDPER96 |
| | 0 | 22,158 | | 294,498,391 |
| | \$9.00 - \$35.00 \$35.01 - \$42.00 | 3 1 | | 18,952 5,842 |
| | \$42.01 - \$200.00 | 3 | | 16,612 |
| | TOTAL | 22,165 | | 294,539,798 |
| DVOR96X_ | AMOUNT PAID, OTHER PRIVATE (IMPUTED) | | _7.2 _NUM | <u>274</u> <u>280</u> |
| | VALUE | UNWEIGHTED | WEIGHTEI | BY WTDPER96 |
| | 0 | 21,939 | | 291,930,834 |
| | \$5.00 - \$53.00 \$53.01 - \$75.00 | 60 54 | | 805,086 687,176 |
| | \$75.01 - \$136.00 | 58 | | 571,267 |
| | \$136.01- \$2750.00 TOTAL | 54 22,165 | | 545,436 294,539,798 |
| | IOIUM | 22,103 | | 494,333,130 |

| NAME | DESCRIPTION | FC | RMAT | TYPE | START | END |
|----------|---|------------------|------|-------|---------|----------------------------|
| DVOU96X_ | AMOUNT PAID, OTHER PUBLIC (IMPUTED) | | 7.2 | NUM | 281 | 287 |
| | VALUE | UNWEIGHTED | WE | IGHTE | D BY WT | DPER96 |
| | 0 \$11.02 - \$26.10 \$26.11 - \$53.94 | 22,142 7 5 | | | - | 15,755 33,419 35,114 |
| | \$53.95 - \$87.00 | 6 | | | | 29,603 |
| | \$87.01 - \$1798.00 TOTAL | 5 22,165 | | | | 25,906 39,798 |
| DVOT96X_ | AMOUNT PAID,OTHER INSURANCE (IMPUTED) | | 7.2 | _NUM | 288 | 294 |
| | VALUE | UNWEIGHTED | WE | IGHTE | D BY WT | DPER96 |
| | 0 | 21,911 | | | | 54,939 |
| | \$2.00 - \$46.00 \$46.01 - \$80.50 | 64 63 | | | | 03,485 12,572 |
| | \$80.51 - \$165.00 | 64 | | | 8 | 96,825 |
| | \$165.01- \$3600.00 | 63 | | | | 71,976 |
| | TOTAL | 22,165 | | | 294,5 | 39,798 |
| DVXP96X | SUM OF DVSF96X-DVOT96X (IMPUTED) | | 7.2 | _NUM | 295 | 301 |
| | VALUE | UNWEIGHTED | WE | IGHTE | D BY WT | |
| | 0 \$1.00 - \$51.00 | 4,234 4,557 | | | | 83,199 58,249 |
| | \$51.01 - \$75.00 | 4,616 | | | | 01,175 |
| | \$75.01 - \$125.00 | 4,349 | | | 58,7 | 14,732 |
| | \$125.01- \$8570.00 | 4,409 | | | | 82,443 |
| | TOTAL | 22,165 | | | 294,5 | 39,798 |
| DVTC96X | HHLD REPORTED TOTAL CHARGE (IMPUTED) | | 8.2 | _NUM | 302 | 309 |
| | VALUE | UNWEIGHTED | WE | IGHTE | D BY WT | DPER96 |
| | 0 | 3,446 | | | | 64,611 |
| | \$1.00 - \$56.00 | 4,684 4,900 | | | | 34,136 |
| | \$56.01 - \$80.00 \$80.01 - \$140.00 | 4,492 | | | | 30,224 69,589 |
| | \$140.01- \$28000.00 | 4,643 | | | | 41,238 |
| | TOTAL | 22,165 | | | 294,5 | 39,798 |
| IMPDVSLF | IMPUTATION FLAG FOR DVSF96X | | 1.0 | _NUM | 310 | 310 |
| | VALUE | UNWEIGHTED | WE | IGHTE | D BY WT | DPER96 |
| | 0 UNIMPUTED | 20,662 | | | | 82,393 |
| | 1 IMPUTED | 1,503 | | | | 57,405 |
| | TOTAL | 22,165 | | | 494,5 | 39,798 |

| NAME | DESCRIPTION | FC | RMAT | TYPE | START | END |
|----------|-----------------------------------|---------------------------|------|--------|---------|----------------------------|
| IMPDVMCR | IMPUTATION FLAG FOR DVMR96X | _ | 1.0 | _NUM | 311 | 311 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 22,009 156 22,165 | | | 2,2 | 20,910 18,887 39,798 |
| IMPDVMCD | IMPUTATION FLAG FOR DVMD96X | <u> </u> | 1.0 | _NUM | 312 | 312 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 20,710 1,455 22,165 | | | 13,2 | 35,038 04,760 39,798 |
| IMPDVPRV | IMPUTATION FLAG FOR DVPV96X | | 1.0 | _NUM | 313 | 313 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 16,703 5,462 22,165 | | | 74,2 | 59,334 80,464 39,798 |
| IMPDVVA | IMPUTATION FLAG FOR DVVA96X | | 1.0 | _NUM | 314 | 314 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 21,578 587 22,165 | | | 8,1 | 74,770 65,028 39,798 |
| IMPDVCHM | IMPUTATION FLAG FOR DVCH96X | | 1.0 | _NUM | 315 | 315 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 22,080 85 22,165 | | | 1,3 | 38,805 00,993 39,798 |
| IMPDVOFD | IMPUTATION FLAG FOR DVOF96X | | 1.0 | _NUM | 316 | 316 |
| | VALUE | UNWEIGHTED | WE | EIGHTE | D BY WT | DPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 22,098 67 22,165 | | | 7 | 53,957 85,840 39,798 |

| NAME | DESCRIPTION | FC | RMAT TYPE | START END |
|----------|-----------------------------------|---------------------------|-----------|--|
| IMPDVSTL | IMPUTATION FLAG FOR DVSL96X | | 1.0 NUM | 317317 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 22,094 71 22,165 | | 293,695,377 844,420 294,539,798 |
| IMPDVWCP | IMPUTATION FLAG FOR DVWC96X | | 1.0 NUM | 318318 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 22,155 10 22,165 | | 294,462,573 77,225 294,539,798 |
| IMPDVOPR | IMPUTATION FLAG FOR DVOR96X | | 1.0 NUM | 319319 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 22,030 135 22,165 | | 293,082,636 1,457,162 294,539,798 |
| IMPDVOPU | IMPUTATION FLAG FOR DVOU96X | | _1.0 _NUM | 320320 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 22,142 23 22,165 | | 294,415,755 124,043 294,539,798 |
| IMPDVOSR | IMPUTATION FLAG FOR DVOT96X | | _1.0 _NUM | 321321 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 21,886 279 22,165 | | 291,153,780 3,386,018 294,539,798 |
| IMPDVCHG | IMPUTATION STATUS OF DVTC96X | | _1.0 _NUM | 322322 |
| | VALUE | UNWEIGHTED | WEIGHT | ED BY WTDPER96 |
| | 0 UNIMPUTED 1 IMPUTED TOTAL | 15,186 6,979 22,165 | | 201,584,889 92,954,909 294,539,798 |

| NAME | DESCRIPTION | FORI | MAT TYPE | START END |
|----------|---|-------------------------|----------|---------------------------------|
| WTDPER96 | POVERTY/MORTALITY ADJ PERS WEIGHT, 1996 | 1; | 2.6 NUM | 323 334 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | 0 993.99 - 64,841.14 TOTAL | 299 21,866 22,165 | | 0 294,539,798 294,539,798 |
| VARPSU96 | VARIANCE ESTIMATION PSU,1996 | ; | 2.0 NUM | 335336 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | 1 - 45 TOTAL | 22,165 22,165 | | 294,539,798 294,539,798 |
| VARSTR96 | VARIANCE ESTIMATION STRATUM, 1996 | - | 3.0 _NUM | 337339 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | 1 - 140 TOTAL | 22,165 22,165 | | 294,539,798 294,539,798 |

DATE: April 28, 2000

ALPHABETICAL AND POSITIONAL LISTING OF VARIABLES

----ALPHABETICAL LISTING OF VARIABLES----

| START | END | NAME | DESCRIPTION |
|-------|-----|----------|--|
| 1 | 5 | DUID | DWELLING UNIT ID |
| 9 | 16 | DUPERSID | PERSON ID (DUID+PID) |
| 70 | 75 | DVCH96H | <pre>HHLD RPTD AMTPD, CHMP/CHMPVA(PRE-IMPUTED)</pre> |
| 53 | 57 | DVMD96H | HHLD RPTD AMT PD, MEDICAID (PRE-IMPUTED) |
| 47 | 52 | DVMR96H | HHLD RPTD AMT PD, MEDICARE (PRE-IMPUTED) |
| 76 | 81 | DVOF96H | HHLD RPTD AMT PD,OTHER FED(PRE-IMPUTED) |
| 94 | 100 | DVOT96H | HHLD RPTD AMT PD,OTH INSUR(PRE-IMPUTED) |
| 58 | 64 | DVPV96H | HHLD RPTD AMT PD, PRIV INS(PRE-IMPUTED) |
| 40 | 46 | DVSF96H | HHLD RPTD AMT PD, FAMILY(PRE-IMPUTED) |
| 82 | 88 | DVSL96H | HHLD RPTD AMT PD, STATE & LOC(PRE-IMPUTD) |
| 107 | 114 | DVTC96H | HHLD REPORTED TOTAL CHARGE (PRE-IMPUTED) |
| 101 | 106 | DVUC96H | HHLD RPTD AMT PD, UNCOL LIAB (PRE-IMPUTED) |
| 65 | 69 | DVVA96H | HHLD RPTD AMT PD, VETERANS (PRE-IMPUTED) |
| 89 | 93 | DVWC96H | HHLD RPTD AMT PD, WORK COMP(PRE-IMPUTED) |
| 17 | 28 | EVNTIDX | EVENT ID |
| 29 | 39 | HHSFFIDX | HOUSEHOLD REPORTD FLAT FEE ID(UNEDITED) |
| 6 | 8 | PID | PERSON NUMBER |
| 127 | 128 | VARPSU96 | VARIANCE ESTIMATION PSU, 1996 |
| 129 | 131 | VARSTR96 | VARIANCE ESTIMATION STRATUM, 1996 |
| 115 | 126 | WTDPER96 | POVERTY/MORTALITY ADJ PERS WEIGHT, 1996 |

DATE: April 28, 2000

ALPHABETICAL AND POSITIONAL LISTING OF VARIABLES

----POSITIONAL LISTING OF VARIABLES----

| START | END | NAME | DESCRIPTION |
|-------|-----|----------|--|
| 1 | 5 | DUID | DWELLING UNIT ID |
| 6 | 8 | PID | PERSON NUMBER |
| 9 | 16 | DUPERSID | PERSON ID (DUID+PID) |
| 17 | 28 | EVNTIDX | EVENT ID |
| 29 | 39 | HHSFFIDX | HOUSEHOLD REPORTD FLAT FEE ID(UNEDITED) |
| 40 | 46 | DVSF96H | HHLD RPTD AMT PD, FAMILY (PRE-IMPUTED) |
| 47 | 52 | DVMR96H | HHLD RPTD AMT PD, MEDICARE (PRE-IMPUTED) |
| 53 | 57 | DVMD96H | HHLD RPTD AMT PD, MEDICAID (PRE-IMPUTED) |
| 58 | 64 | DVPV96H | HHLD RPTD AMT PD, PRIV INS(PRE-IMPUTED) |
| 65 | 69 | DVVA96H | HHLD RPTD AMT PD, VETERANS (PRE-IMPUTED) |
| 70 | 75 | DVCH96H | <pre>HHLD RPTD AMTPD, CHMP/CHMPVA(PRE-IMPUTED)</pre> |
| 76 | 81 | DVOF96H | HHLD RPTD AMT PD,OTHER FED(PRE-IMPUTED) |
| 82 | 88 | DVSL96H | HHLD RPTD AMT PD, STATE & LOC(PRE-IMPUTD) |
| 89 | 93 | DVWC96H | HHLD RPTD AMT PD, WORK COMP(PRE-IMPUTED) |
| 94 | 100 | DVOT96H | HHLD RPTD AMT PD,OTH INSUR(PRE-IMPUTED) |
| 101 | 106 | DVUC96H | HHLD RPTD AMT PD, UNCOL LIAB (PRE-IMPUTED) |
| 107 | 114 | DVTC96H | HHLD REPORTED TOTAL CHARGE(PRE-IMPUTED) |
| 115 | 126 | WTDPER96 | POVERTY/MORTALITY ADJ PERS WEIGHT, 1996 |
| 127 | 128 | VARPSU96 | VARIANCE ESTIMATION PSU, 1996 |
| 129 | 131 | VARSTR96 | VARIANCE ESTIMATION STRATUM, 1996 |

| NAME | DESCRIPTION | FORMAT TYPE STARTEND |
|----------|--|---|
| DUID | DWELLING UNIT ID | 5.0 _NUM15 |
| | VALUE | UNWEIGHTED WEIGHTED BY WTDPER96 |
| | VALID ID | 22,165 294,539,798 |
| | TOTAL | 22,165 294,539,798 |
| PID | PERSON NUMBER | 3.0 _NUM68 |
| | VALUE | UNWEIGHTED WEIGHTED BY WTDPER96 |
| | VALID ID | 22,165 294,539,798 |
| | TOTAL | 22,165 294,539,798 |
| DUPERSID | PERSON ID (DUID+PID) | 8.0 CHAR916 |
| | VALUE | UNWEIGHTED WEIGHTED BY WTDPER96 |
| | VALID ID | 22,165 294,539,798 |
| | TOTAL | 22,165 294,539,798 |
| EVNTIDX_ | EVENT ID | 12.0 CHAR1728 |
| | VALUE | UNWEIGHTED WEIGHTED BY WTDPER96 |
| | VALID ID | 22,165 294,539,798 |
| | TOTAL | 22,165 294,539,798 |
| HHSFFIDX | HOUSEHOLD REPORTD FLAT FEE ID(UNEDITED) | 11.0 CHAR2939 |
| | VALUE | UNWEIGHTED WEIGHTED BY WTDPER96 |
| | -1 INAPPLICABLE | 17,683 232,801,555 |
| | VALID ID TOTAL | 4,482 61,738,243 22,165 294,539,798 |
| | | |
| DVSF96H | HHLD RPTD AMT PD, FAMILY (PRE-IMPUTED) | 7.2 _NUM4046 |
| | VALUE | UNWEIGHTED WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED | 1,561 20,511,117 |
| | 0 \$1.00 - \$8,100.00 | 10,641 140,000,083 9,963 134,028,597 |
| | TOTAL | 22,165 294,539,798 |
| DVMR96H_ | HHLD RPTD AMT PD, MEDICARE (PRE-IMPUTED) | 6.2 _NUM4752 |
| | VALUE | UNWEIGHTED WEIGHTED BY WTDPER96 |
| | -9 NOT ASCERTAINED | 181 2,524,763 |
| | 0 \$15.00 - \$335.00 | 21,971 291,833,398 13 181,637 |
| | TOTAL | 22,165 294,539,798 |

| NAME | DESCRIPTION | FOR | RMAT TYPE | STARTEND |
|----------|--|------------------|-----------|----------------------------|
| DVMD96H_ | HHLD RPTD AMT PD, MEDICAID (PRE-IMPUTED) | | _5.2 _NUM | 5357 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | -9 NOT ASCERTAINED | 1,483 | | 13,378,570 |
| | 0 TOTAL | 20,682 22,165 | | 281,161,228 294,539,798 |
| | | | | |
| DVPV96H_ | HHLD RPTD AMT PD,PRIV INS(PRE-IMPUTED) | | 7.2 NUM | 5864 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | -9 NOT ASCERTAINED 0 | 5,879 11,806 | | 79,375,335 152,555,468 |
| | \$1.00 - \$3,027.00 | 4,480 | | 62,608,995 |
| | TOTAL | 22,165 | | 294,539,798 |
| DVVA96H_ | HHLD RPTD AMT PD, VETERANS (PRE-IMPUTED) | | _5.2 _NUM | 6569 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | -9 NOT ASCERTAINED | 671 | | 9,343,016 |
| | 0 | 21,494 | | 285,196,782 |
| | TOTAL | 22,165 | | 294,539,798 |
| DVCH96H_ | HHLD_RPTD_AMTPD,CHMP/CHMPVA(PRE-IMPUTED) | | _6.2 _NUM | 7075 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | -9 NOT ASCERTAINED | 104 | | 1,570,640 |
| | 0 \$40.00 - \$100.00 | 22,058 3 | | 292,936,592 32,566 |
| | TOTAL | 22,165 | | 294,539,798 |
| DVOF96H | HHLD RPTD AMT PD,OTHER FED(PRE-IMPUTED) | | 6.2 NUM | 7681 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | -9 NOT ASCERTAINED | 71 | | 819,719 |
| | 0 \$52.00 - \$110.00 | 22,092 2 | | 293,680,795 39,283 |
| | TOTAL | 22,165 | | 294,539,798 |
| DVSL96H_ | HHLD RPTD AMT PD,STATE & LOC(PRE-IMPUTD) | | 7.2 NUM | 8288 |
| | VALUE | UNWEIGHTED | WEIGHTE | D BY WTDPER96 |
| | -9 NOT ASCERTAINED | 101 | | 1,069,161 |
| | 0 | 22,046 | | 293,239,717 |
| | \$22.00 - \$1,114.00 TOTAL | 18 22,165 | | 230,920 294,539,798 |
| | | | | |

| NAME | DESCRIPTION | FC | RMAT | TYPE | START | END |
|----------|--|------------------|------|--------|---------|------------------|
| DVWC96H | HHLD RPTD AMT PD, WORK COMP(PRE-IMPUTED) | | 5.2 | _NUM | 89 | 93 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED | 10 | | | | 77,225 |
| | 0 \$53.00 | 22,154 1 | | | 294,4 | 57,645 4,928 |
| | TOTAL | 22,165 | | | 294,5 | 39,798 |
| DVOT96H_ | HHLD RPTD AMT PD,OTH INSUR(PRE-IMPUTED) | | 7.2 | _NUM | 94 | 100 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED | 283 | | | | 21,454 |
| | 0 \$6.00 - \$3,600.00 | 21,774 108 | | | | 29,495 88,849 |
| | TOTAL | 22,165 | | | | 39,798 |
| DVUC96H_ | HHLD RPTD AMT PD, UNCOL LIAB (PRE-IMPUTED) | | 6.2 | _NUM | 101 | 106 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED | 1 | | | | 17,339 |
| | -8 DK | 2 | | | | 30,736 |
| | 0 \$3.00 - \$212.00 | 22,153 9 | | | | 50,720 41,003 |
| | TOTAL | 22,165 | | | | 39,798 |
| DVTC96H_ | HHLD REPORTED TOTAL CHARGE (PRE-IMPUTED) | _ | 8.2 | _NUM | 107 | 114 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | -9 NOT ASCERTAINED | 8,225 | | | 103,3 | 20,927 |
| | 0 | 3,598 | | | | 44,987 |
| | \$1.00 - \$28,000.00 TOTAL | 10,342 22,165 | | | | 73,884 39,798 |
| | TOTAL | 22,103 | | | 254,5 | 33,130 |
| WTDPER96 | POVERTY/MORTALITY ADJ PERS WEIGHT, 1996 | | 12.6 | _NUM | 115 | 126 |
| | VALUE | UNWEIGHTED | M | EIGHTE | D BY WT | DPER96 |
| | 0 | 299 | | | | 0 |
| | 993.99 - 64,841.14 TOTAL | 21,866 22,165 | | | | 39,798 39,798 |
| | 1011112 | 22,103 | | | 231,3 | 33,130 |
| VARPSU96 | VARIANCE ESTIMATION PSU,1996 | | 2.0 | _NUM | 127 | 128 |
| | VALUE | UNWEIGHTED | W | EIGHTE | D BY WT | DPER96 |
| | 1 - 45 | 22,165 | | | | 39,798 |
| | TOTAL | 22,165 | | | 294,5 | 39,798 |

| NAME | DESCRIPTION | FORMAT | TYPE | START | END |
|----------|-----------------------------------|------------------|--------|---------|------------------|
| VARSTR96 | VARIANCE ESTIMATION STRATUM, 1996 | 3.0 | _NUM | 129 | 131 |
| | VALUE | UNWEIGHTED WI | EIGHTE | D BY WT | DPER96 |
| | 1 - 140 TOTAL | 22,165 22,165 | | | 39,798 39,798 |

E. Variable-Source Crosswalk

E. VARIABLE-SOURCE CROSSWALK MEPS HC010B: 1996 DENTAL VISITS

File 1: Survey Administration Variables

| Variable | Description | Source |
|----------|-------------------------------|----------------------|
| DUID | Dwelling unit ID | Assigned in sampling |
| PID | Person number | Assigned in sampling |
| DUPERSID | Sample person ID (DUID + PID) | Assigned in sampling |
| EVENTIDX | Event ID | Assigned in Sampling |
| EVENTRN | Event round number | CAPI derived |
| FFID11X | Flat fee ID | Constructed |

Dental Events Variables

| Description | Source |
|-------------------------------------|---|
| Event start date – year | CAPI derived |
| Event start date – month | CAPI derived |
| Event start date – day | CAPI derived |
| General dentist seen | DN03 |
| Dental hygienist seen | DN03 |
| Dental technician seen | DN03 |
| Dental surgeon seen | DN03 |
| Orthodontist seen | DN03 |
| Endodontist seen | DN03 |
| Periodontist seen | DN03 |
| Other dental specialist seen | DN03 |
| Edited EXAMINE | DN04 (Edited) |
| General exam or consultation | DN04 |
| Edited CLENTETH | DN04 (Edited) |
| Cleaning, prophylaxis, or polishing | DN04 |
| X-rays, radiographs or bitewings | DN04 |
| | Event start date – year Event start date – month Event start date – day General dentist seen Dental hygienist seen Dental technician seen Dental surgeon seen Orthodontist seen Endodontist seen Periodontist seen Other dental specialist seen Edited EXAMINE General exam or consultation Edited CLENTETH Cleaning, prophylaxis, or polishing |

E-1 MEPS HC-010B

| FLUORIDE | Fluoride treatment | DN04 |
|----------|--|---------------|
| SEALANT | Sealant application | DN04 |
| FILLINGX | Edited FILLING | DN04 (Edited) |
| FILLING | Fillings | DN04 |
| INLAY | Inlays | DN04 |
| CROWNSX | Edited CROWNS | DN04 (Edited) |
| CROWNS | Crowns or caps | DN04 |
| ROOTCANX | Edited ROOTCANL | DN04 (Edited) |
| ROOTCANL | Root canal | DN04 |
| GUMSURGX | Edited GUMSURG | DN04 (Edited) |
| GUMSURG | Perdtl scaling/root planing or gum | DN04 |
| RECLVISX | Edited RECLIVIS | DN04 (Edited) |
| RECLIVIS | Periodontal recall visit | DN04 |
| EXTRACT | Extraction, tooth pulled | DN04 |
| IMPLANT | Implants | DN04 |
| ABSCESS | Abscess or infection treatment | DN04 |
| ORALSURG | Oral surgery | DN04 |
| BRIDGESX | Edited BRIDGES | DN04 (Edited) |
| BRIDGES | Bridges | DN04 |
| DENTUREX | Edited DENTURES | DN04 (Edited) |
| DENTURES | Dentures or partial dentures | DN04 |
| REPAIR | Repair bridges/dentures or relining | DN04 |
| ORTHDONX | Edited ORTHDONT | DN04 (Edited) |
| ORTHDONT | Orthodontia, braces or retainers | DN04 |
| WHITEN | Bonding, whitening or bleaching | DN04 |
| TMDTMJ | Treatment for TMD or TMJ | DN04 |
| DENTPROX | Edited DENTPOC | DN04OV |
| DENTPROC | Other dental procedures | DN04OV |
| DENTOTHX | Edited DENTOTHR | DN04 (Edited) |
| DENTOTHR | Other specify dental procedures | DN04 |
| DENTINJ | Visit because of accident or injury | DN01 |
| DENTMED | Receive medicine including free sample | DN05 |
| DVICD1X | 3 digit ICD-9 condition code | DN02 (Edited) |

| DVICD2X | 3 digit ICD-9 condition code | DN02 (Edited) |
|---------|--|--------------------|
| DVPRO1X | 2 digit ICD-9 procedure code | DN02 (Edited) |
| DVPRO2X | 2 digit ICD-9 procedure code | DN02 (Edited) |
| DVCCC1X | Modified Clinical Classification Code | Constructed/Edited |
| DVCCC2X | Modified Clinical Classification Code | Constructed/Edited |
| NUMCOND | Total number condition records linked to this event. | Constructed |

Expenditure Variables

| Variable | Description | Source |
|----------|--|--------------------------------------|
| FFDVTYPX | Edited flat fee group (stem or leaf) | Constructed |
| FFDV96 | Edited total # dental visits in FF in 1996 | FF02 |
| FFTOT96 | Total # visits (pure/mixed) in flat fee for 1996 | FF02 |
| FFBEF96 | Number dental visits in flat fee before 1996 | FF05 |
| FFDV97 | Number dental visits in flat fee: Rd3, 1997 | FF10 |
| FFTOT97 | Number visits (pure/mixed)in flat fee: Rd3,1997 | FF10 |
| DVSF96X | Amount paid, family (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVMR96X | Amount paid, Medicare (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVMD96X | Amount paid, Medicaid (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVPV96X | Amount paid, private insurance (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVVA96X | Amount paid, Veterans (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVCH96X | Amount paid, CHAMPUS/CHAMPVA (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVOF96X | Amount paid, other federal (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVSL96X | Amount paid, state and local gov't (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVWC96X | Amount paid, worker's comp (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVOR96X | Amount paid, other private (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVOU96X | Amount paid, other public (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVOT96X | Amount paid, other insurance (Imputed) | CP07,CP09A, CP11-CP34OV2 (Edited) |
| DVXP96X | Sum of DVSF96X – DVOT96X (Imputed) | Constructed |

| DVTC96X | Household reported total charge (Imputed) | CP09A,CP09OV (Edited) |
|----------|--|--------------------------|
| IMPDVSLF | Imputation flag for DVSF96X | Constructed |
| IMPDVMCR | Imputation flag for DVMR96X | Constructed |
| IMPDVMCD | Imputation flag for DVMD96X | Constructed |
| IMPDVPRV | Imputation flag for DVPV96X | Constructed |
| IMPDVVA | Imputation flag for DVVA96X | Constructed |
| IMPDVCHM | Imputation flag for DVCH96X | Constructed |
| IMPDVOFD | Imputation flag for DVOF96X | Constructed |
| IMPDVSTL | Imputation flag for DVSL96X | Constructed |
| IMPDVWCP | Imputation flag for DVWC96X | Constructed |
| IMPDVOPR | Imputation flag for DVOR96X | Constructed |
| IMPDVOPU | Imputation flag for DVOU96X | Constructed |
| IMPDVOSR | Imputation flag for DVOT96X | Constructed |
| IMPDVCHG | Imputation flag for DVTC96X | Constructed |

Weights

| Variable | Description | Source |
|----------|--|-------------|
| WTDPER96 | Poverty/mortality adjusted person weight, 1996 | Constructed |
| VARPSU96 | Variance estimation PSU,1996 | Constructed |
| VARSTR96 | Variance estimation stratum, 1996 | Constructed |

File 2: Survey Administration Variables

| Variable | Description | Source |
|----------|--------------------------------|----------------------|
| DUID | Dwelling unit ID | Assigned in sampling |
| PID | Person number | Assigned in sampling |
| DUPERSID | Sample person ID (DUID + PID) | Assigned in sampling |
| EVNTIDX | Event ID | Assigned in Sampling |
| HHSFFIDX | Household reported flat fee ID | Constructed |

Pre-imputed Expenditure Variables

| Variable | Description | Source |
|----------|---|-----------------------|
| DVSF96H | Household reported amt. paid, family (Pre-imputed) | CP07,CP09A, |
| | | CP11-CP34OV2 (Edited) |
| DVMR96H | Household reported amt. paid, Medicare (Pre- | CP07,CP09A, |
| | imputed) | CP11-CP34OV2 (Edited) |
| DVMD96H | Household reported amt. paid, Medicaid (Pre-imputed) | CP07,CP09A, |
| | | CP11-CP34OV2 (Edited) |
| DVPV96H | Household reported amt. paid, private insurance (Pre- | CP07,CP09A, |
| | imputed) | CP11-CP34OV2 (Edited) |
| DVVA96H | Household reported amt. paid, Veterans (Pre-imputed) | CP07,CP09A, |
| | | CP11-CP34OV2 (Edited) |
| DVCH96H | Household reported amt. paid, | CP07,CP09A, |
| | CHAMPUS/CHAMPVA (Pre-imputed) | CP11-CP34OV2 (Edited) |
| DVOF96H | Household reported amt. paid, other federal (Pre- | CP07,CP09A, |
| | imputed) | CP11-CP34OV2 (Edited) |
| DVSL96H | Household reported amt paid, state and local gov't | CP07,CP09A, |
| | (Pre-imputed) | CP11-CP34OV2 (Edited) |
| DVWC96H | Household reported amt paid, worker's comp (Pre- | CP07,CP09A, |
| | imputed) | CP11-CP34OV2 (Edited) |
| DVOT96H | Household reported amt paid, other insurance (Pre- | CP07,CP09A, |
| | imputed) | CP11-CP34OV2 (Edited) |
| DVTC96H | Household reported total charge (Pre-imputed) | CP09A,CP09OV |
| | | (Edited) |

Weights

| Variable | Description | Source |
|----------|--|-------------|
| WTDPER96 | Poverty/mortality adjusted person weight, 1996 | Constructed |
| VARPSU96 | Variance estimation PSU,1996 | Constructed |
| VARSTR96 | Variance estimation stratum, 1996 | Constructed |