MEPS HC-051H: 2000 Home Health Visits

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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 micro-data contained in these files. 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; and
- 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; and
- 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

The Medical Expenditure Panel Survey (MEPS) provides nationally representative estimates of health care use, expenditures, sources of payment, and insurance coverage for the U.S. civilian noninstitutionalized population. MEPS is cosponsored by the Agency for Healthcare Research and Quality (AHRQ) and the National Center for Health Statistics (NCHS).

MEPS is a family of three surveys. The Household Component (HC) is the core survey and forms the basis for the Medical Provider Component (MPC) and part of the Insurance Component (IC). 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 and the National Medical Expenditure Survey (NMES-2) in 1987. Since 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 advance these goals, MEPS includes linkage with the National Health Interview Survey (NHIS) - a survey conducted by NCHS from which the sample for the MEPS HC is drawn - and enhanced 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 2 ½-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. 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/or replaces 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 home health agencies and pharmacies reported by HC respondents. Office-based physicians, hospitals, and hospital physicians are also included in the MPC but may be subsampled at various rates, depending on burden and resources, in certain years.

Data are collected on medical and financial characteristics of medical and pharmacy events reported by HC respondents. The MPC is conducted through telephone interviews and record abstraction.

3.0 Insurance Component

The MEPS IC collects data on health insurance plans obtained through private and public-sector employers. 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 three 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.

To provide an integrated picture of health insurance, data collected from the first sampling frame (employers and insurance providers identified by MEPS HC respondents) are linked back to data provided by those respondents. Data from the two Census Bureau sampling frames are used to produce annual national and state estimates of the supply and cost of private health insurance available to American workers and to evaluate policy issues pertaining to health insurance. National estimates of employer contributions to group insurance from the MEPS IC are used in the computation of Gross Domestic Product (GDP) by the Bureau of Economic Analysis.

The MEPS IC is an annual panel 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 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, microdata files and compendiums of tables. Data are released through MEPSnet, an online interactive tool developed to give users the ability to statistically analyze MEPS data in real time. Summary reports and compendiums of tables are released as printed documents and electronic files. Microdata files are released as electronic files.

Selected printed documents are available through the AHRQ Publications Clearinghouse. Write or call:

AHRQ Publications Clearinghouse Attn: (publication number) P.O. Box 8547 Silver Spring, MD 20907 800-358-9295 410-381-3150 (callers outside the United States only) 888-586-6340 (toll-free TDD service; hearing impaired only)

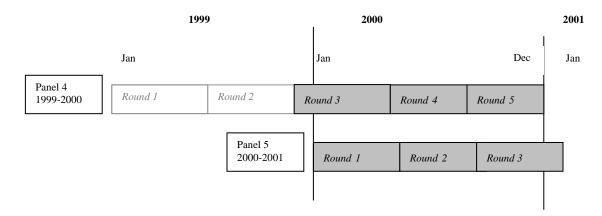
Be sure to specify the AHRQ number of the document you are requesting.

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 2000 Medical Expenditure Panel Survey (MEPS) Household Component (HC) and Medical Provider Component (MPC). Released as an ASCII data file and a SAS transport file, the 2000 Home Health public use file provides detailed information on home health events for a nationally representative sample of the civilian noninstitutionalized population of the United States. Data from the Home Health event file can be used to make estimates of home health event utilization and expenditures for calendar year 2000. As illustrated below, this file consists of MEPS survey data obtained in the 2000 portion of Round 3, and Rounds 4 and 5 for Panel 4, as well as Rounds 1, 2, and the 2000 portion of Round 3 for Panel 5 (i.e., the rounds for the MEPS panels covering calendar year 2000).



Counts of home health utilization are based entirely on household reports. Agency home health providers were sampled into the MEPS MPC (see Section B. 2.0). Only those providers for whom the respondent signed a permission form were included in MPC. Information from MPC was used to supplement expenditure and payment data reported by the household.

Data from this event file can be merged with other 2000 MEPS HC data files for the purposes of appending person-level data, such as demographic or health insurance coverage, to each Home Health record.

This file can also be used to construct summary variables for expenditures, sources of payment, and related aspects of home health events for calendar year 2000. Aggregate annual person-level information on the use of home health providers and other health services use is provided on the 2000 Population Characteristics File, where each record represents a MEPS sampled person.

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

Data File Information Sample Weights Strategies for Estimation Merging/Linking MEPS Data Files References Variable - 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, 1999. A copy of the survey instruments 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

The 2000 Home Health public use data set consists of one event-level data file. The file contains characteristics associated with the home health event and imputed expenditure data. For users wanting to impute expenditures, pre-imputed data are available through the CCFS Data Center. Please visit the CCFS Data Center web site for details: . The data user/analyst is forewarned that the imputation of expenditures will necessitate a sizable commitment of resources: financial, staff, and time.

The Home Health use data set contains characteristics associated with the home health event and imputed expenditure data. Each record represents a household-reported home health event. A home health event is a MONTH of similar service provided by the same PROVIDER -- a month of home health services from a single provider entity (i.e., paid independent, informal or agency). For example, if a person received four events from a nurse, ten events from a homemaker and four events from a physical therapist each from the same provider every month for three months, then there will be three event records on the file, one for each month (NOT 54 records). Data were collected in this manner because agencies, hospitals, and nursing homes provide expenditure data in this manner. In order to be consistent with the definition of what is considered a home health event on this file, this same definition (i.e., a month of similar services) was applied to all types of home health providers.

This public use data set contains 2,838 home health records; of the records, 2,820 are associated with persons having a positive person-level weight (PERWT00F). It includes all records related to home health events for all household survey respondents who

resided in eligible responding households and reported at least one home health event. Each record represents one household-reported home health event that occurred during calendar year 2000. Some household respondents may have multiple events and thus will be represented in multiple records on the file. Other household respondents may have reported no events and thus will have no records on this file. These data were collected during the 2000 portion of Round 3, and Rounds 4 and 5 for Panel 4, as well as Rounds 1, 2, and the 2000 portion of Round 3 for Panel 5 of the MEPS HC. The persons represented on this file had to meet either (a) or (b):

- a) Be classified as a key in-scope person who responded for his or her entire period of 2000 eligibility (i.e., persons with a positive 2000 full-year person-level weight (PERWT00F > 0)), or
- b) Be an eligible member of a family all of whose key in-scope members have a positive person-level weight (PERWT00F > 0). (Such a family consists of all persons with the same value for FAMIDYR.) That is, the person must a positive full-year family-level weight (FAMWT00F >0). Note that FAMIDYR and FAMWT00F are variables on the 2000 Population Characteristics file.

Persons with no home health events for 2000 are not included on this file but are represented on the 2000 MEPS person-level files. A codebook for the data file is provided in files H51HCB.PDF and H51HCB.ASP.

Home health providers include formal or paid, and informal or unpaid providers. Formal or paid providers include: home health agency, hospital, or nursing home; and other independent paid providers. Informal or unpaid providers include family and friends.

For home health agencies, hospitals, and nursing homes, it is important to distinguish between the provider and the home health worker. In these cases, the provider is the agency or the facility that employs the workers. The home health workers are the people who administer the care. Examples of home health care workers are the following: nurses, physical therapists, home health aides, homemakers, and hospice workers, among others. These examples are generally the types of workers associated with agencies, hospitals, and nursing homes. Paid independent providers generally include companions, nursing assistants, physicians, etc. For each record on this file, one or more types of workers can be reported. The respondent is asked to mention all of the types of home health workers who provided home health care (since records represent a month of service, there can be more than one type of worker on a single record). For example, an agency that provides two types of aides that provide home health care to the same person during a specific month is represented as one event on the file even though two workers employed at the same agency provided care. When using this file, analysts must keep in mind that a record on the file corresponds to a provider entity, not an individual or particular worker.

Expenditure data for home health agency events are collected exclusively in the MPC. Expenditure data for other paid independent home health care events are collected from the household, since these types of events are not included in the MPC. Friends, family and volunteers providing home health care to a person are considered unpaid and are not included in the MPC. No expenditure information is available for them.

Each home health record also includes the following: date the provider started seeing the respondent; type of provider; types of services provided and if this was a repeat event; whether or not care was received due to hospitalization; whether or not a person was taught how to use medical equipment; imputed sources of payment, total payment and total charge for the home health event expenditure; and a full-year person-level weight.

Data from this file can be merged with previously released 2000 MEPS HC person-level data, such as the MEPS 2000 Full-Year Population Characteristics file, using the unique person identifier, DUPERSID, to append person-level information, such as demographic or health insurance coverage, to each record. Home Health events can also be linked to the MEPS 2000 Medical Conditions File and the MEPS 2000 Prescribed Medicines File. Please see Section 5.0 and the MEPS 2000 Appendix File, HC-051I, for details on how to link MEPS data files.

Panel 4 cases (PANEL00=4 on the MEPS 2000 person-level file) can be linked back to the 1999 MEPS HC Public Use Data Files. However, the user should be aware that at this time no weight is being provided to facilitate two-year analysis of Panel 4 data.

2.1 Codebook Structure

For each variable on the Home Health event file, both weighted and unweighted frequencies are provided in the codebook (files H51HCB.PDF and H51HCB.ASP). The codebook and data file sequence list variables in the following order:

Unique person identifier Unique home health event identifier Home health characteristic variables Imputed expenditure variables Weight and variance estimation variables

2.2 Reserved Codes

The following reserved code values are used:

Value	Definition
-1 INAPPLICABLE	Question was not asked due to skip pattern.
-7 REFUSED	Question was asked and respondent refused to
-8 DK	answer question. Question was asked and respondent did not know
-9 NOT ASCERTA	answer. INED Interviewer did not record the data.

Generally, values of -1, -7, -8, and -9 for non-expenditure variables have not been edited on this file. The values of -1 and -9 can be edited by the data users/analysts by following the skip patterns in the HC survey questionnaire (located on the MEPS web site:).

2.3 Codebook Format

The 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
NT	
Name	Variable name (maximum of 8 characters)
Description	Variable descriptor (maximum of 40 characters)
Format	Number of bytes
Туре	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 Source and Naming Conventions

In general, variable names reflect the content of the variable, with an eight-character limitation. Generally, imputed/edited variables end with an "X."

2.4.1 Variable-Source Crosswalk

Variables were derived either from the HC questionnaire itself, the MPC data collection instrument, or from the CAPI. The source of each variable is identified in Section D Variable - Source Crosswalk" in one of four ways:

- 1) Variables derived from CAPI or assigned in sampling are so indicated as "Capi derived" or "Assigned in sampling," respectively;
- 2) Variables which come from one or more specific questions have those questionnaire sections and question numbers indicated in the "Source" column; questionnaire sections are identified as:
 - EV Event Roster section
 - HH Home Health Event section
 - CP Charge Payment section
- 3) Variables constructed from multiple questions using complex algorithms are labeled "Constructed" in the "Source" column; and
- 4) Variables that have been edited or imputed are so indicated.

2.4.2 Expenditure and Source of Payment Variables

The names of the expenditure and source of payment variables follow a standard convention, are seven characters in length, and end in an "X" indicating edited/imputed. Please note that imputed means that a series of logical edits, as well as an imputation process to account for missing data, have been performed on the variable.

The total sum of payments and the 12 source of payment are named in the following way:

The first two characters indicate the type of event:

IP - inpatient stay	OB - office-based visit
ER - emergency room visit	OP - outpatient visit
HH - home health event	DV - dental visit
OM - other medical equipment	RX - prescribed medicine

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

SF - self or family	OF - other Federal Government
MR – Medicare	SL - State/local government
MD – Medicaid	WC - Worker's Compensation
PV - private insurance	OT - other insurance
VA – Veterans Administration	OR - other private
TR – TRICARE	OU - other public
	XP - sum of payments

In addition, the total charge variable is indicated by TC in the variable name.

The fifth and sixth characters indicate the year (00). The last character indicates whether the variable is edited/imputed (X).

For example, HHSF00X is the edited/imputed amount paid by self or family for 2000 home health expenditures.

2.5 File Contents

2.5.1 Survey Administration Variables

2.5.1.1 Person Identifiers (DUID, PID, DUPERSID)

The dwelling unit ID (DUID) is a five-digit random number assigned after the case was sampled for MEPS. The three-digit person number (PID) uniquely identifies each person within the dwelling unit. The eight-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 for the 2000 Full Year Population Characteristics file.

2.5.1.2 Record Identifier (EVNTIDX)

EVNTIDX uniquely identifies each event (i.e., each record on the file) and is the variable required to link home health events to data files containing details on conditions (MEPS 2000 Medical Conditions File). For details on linking see Section 5.0 or the MEPS 2000 Appendix File, HC-051I.

2.5.1.3 Round Indicator (EVENTRN)

EVENTRN indicates the round in which the home health event was reported. Please note: Rounds 3, 4, and 5 are associated with MEPS survey data collected from Panel 4. Likewise, Rounds 1, 2, and 3 are associated with data collected from Panel 5.

2.5.2 Home Health Event Variables

This file contains variables describing home health events reported by household respondents in the Home Health Section of the MEPS HC survey questionnaire.

2.5.2.1 Date of Event (HHDATEYR, HHDATEMM)

The start date variables (HHDATEYR and HHDATEMM) indicate the year and month that the household respondent reported as the start date (or the first time) for this type of home health event. An artifact of the data collection for the variable HHDATEYR is that all events are reported as having started in 2000 even though a person could have started receiving that type of home health care from that provider year(s) before 2000. These variables should not be interpreted as "true" start dates.

2.5.2.2 Characteristics of Event (MPCELIG-OTHCWOS)

The HC questionnaire asked the respondent to indicate whether the home health provider event(s) for each month's services were provided through an agency or an independent paid provider (SELFAGEN). The response to the SELFAGEN question dictated the skip pattern CAPI followed regarding the questions in the home health section of the HC questionnaire. The questionnaire also asked respondents if the provider was paid or whether a friend, relative, or volunteer (HHTYPE) provided the home health services. The constructed variable MPCELIG indicates whether the home health provider event was eligible for MPC data collection and the type of imputation process the event went through. MPCELIG is a more accurate variable for determining whether the event was an agency, a paid independent or an informal care event. However, SELFAGEN is a more accurate variable for determining the home health questions asked of the respondent. All respondents receiving care from an agency, hospital or nursing home were asked to identify the type of home health worker they saw (CNA-SPEECTHP) – for example, certified nursing assistant, home health aide, registered nurse, etc.

Analysts should keep in mind that these identifications by household respondents are subjective in nature, are not mutually exclusive or collectively exhaustive, and should not be used to make certain estimates. For example, a person on one type of insurance may identify an individual providing home health care services to them as a personal care attendant while an individual having a different type of insurance coverage may identify that same worker as a home care aide. Making estimates of personal care attendants or home care aides based on their identification by household respondents and treating these types of workers as mutually exclusive groups will result in inaccurate estimates. Respondents may also have indicated that they were seen by more than one home health care worker during a single event. For example, since an event is a month of services, a respondent may have reported being seen by a nurse, a physical therapist, and/or a home health aide during a single event. Respondents were also asked to identify other non-skilled and skilled workers seen during that month of care (NONSKILL-OTHCWOS). However, "other specify" variables (SKILLWOS and OTHCWOS) were not reconciled with the type of health care worker variable (CNA-SPEECTHP). In addition, the type of health care worker variables (CNA-SPEECTHP) were not reconciled with MPCELIG, SELFAGEN and HHTYPE, so inconsistencies between these variables are possible.

2.5.2.3 Treatments, Therapies, and Services (HOSPITAL-OTHSVCOS)

Regardless of the type of provider, all respondents were asked if the home health services received were due to a hospitalization (HOSPITAL), whether services were due to a medical condition (VSTRELCN), if the person was helped with daily activities (DAILYACT), if the person received companionship services (COMPANY), and whether or not the person received any other type of services (OTHSVCE and OTHSVCOS). Only persons receiving care from an agency, hospital, or nursing home were asked if they were taught how to use medical equipment (MEDEQUIP) and whether or not they received a medical treatment (TREATMT).

2.5.2.4 Frequency of Event (FREQCY-HHDAYS)

Several variables identify the frequency and length of home health events (FREQCY-MINLONG) and whether or not the same services were received during each month (SAMESVCE). Frequency of event variables (FREQCY- TMSPDAY) were used as building blocks to construct HHDAYS. HHDAYS indicates the number of days the person received care during that event (i.e., month of care). HHDAYS has not been reconciled with DAYSPMO. Frequency variables can be combined to get a measure of the intensity of care. For example, HHDAYS can be used in conjunction with HRSLONG and TMSPDAY to form a measure of intensity of care, that is, how many hours of care were provided in one month.

2.5.3 Condition, Procedure, and Clinical Classification Codes

Information on household reported medical conditions and procedures (including condition codes, procedure codes, and clinical classification codes) associated with each home health event are NOT provided on this file. To obtain complete condition information associated with an event, the analyst must link to the 2000 Medical Conditions File. Details on how to link to the MEPS 2000 Medical Conditions File are provided in the MEPS 2000 Appendix File, HC-051I.

2.5.4 Expenditure Data

2.5.4.1 Definition of Expenditures

Expenditures on this file refer to what is paid for health care 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, these estimates do not incorporate any payment not directly tied to specific medical care events, such as bonuses or retrospective payment 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. While charge data are provided on this file, data users/analysts should use caution when working with this data because a charge does not typically represent actual dollars exchanged for services or the resource costs of those services, nor are they directly comparable to the expenditures defined in the 1987 NMES (for details on expenditure definitions, see Monheit et al, 1999). For details on expenditure definitions, please refer to the following, "Informing American Health Care Policy" (Monheit et al., 2000). AHRQ has developed factors to apply to the 1987 NMES expenditure data to facilitate longitudinal analysis. These factors can be accessed via the CCFS Data Center. For more information, see the Data Center section of the MEPS web site at <http://www.meps.ahrq.gov/>.

2.5.4.2 Data Editing and Imputation Methodologies of Expenditure Variables

The general methodology used for editing and imputing expenditure data is described below. However, please note, the MPC included home health events provided by an agency, hospital or nursing home and did not include home health care provided by paid independent providers. Although the general procedures remain the same for all home health events, there were some differences in the editing and imputation methodologies applied to those events followed in the MPC and those events not followed in the MPC. Analysts should note that home health care provided by friends, family, or volunteers was assumed to be free and was not included in any imputation process. Please see below for details on the differences between these editing/imputation methodologies. Separate imputations were performed for flat fee and simple events, as well. Home health expenditure data for agency, hospital, and nursing home providers were collected exclusively from the MPC (i.e., household respondents were not asked to report home health expenditures from these types of providers). The MPC contacted 100 percent of the agency, hospital, and nursing home health providers identified by household respondents. Since paid independent home health providers were not included in the MPC, all expenditure data from these providers were collected from household respondents.

2.5.4.2.1 General Data Editing 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, co-payments 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 mis-classifications 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.

2.5.4.2.2 General Hot-Deck Imputation

A weighted sequential hot-deck procedure was used to impute for missing expenditures, as well as total charge. This procedure uses survey data from respondents to replace missing data, 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. Within each file, flat fee and simple events were imputed separately. 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.

2.5.4.2.3 Home Health Data Editing and Imputation

Expenditures for home health events were developed in a sequence of logical edits and imputations. (Analysts should note that home health care provided by friends, family, or

volunteers was assumed not to have associated expenditures and was not included in any imputation process. All expenditures for home health care provided by informal care providers were assigned "–1" (INAPPLICABLE) because those types of events were skipped out (never asked) of the questions regarding expenditures.) "Household" edits were applied to sources and amounts of payment for all events reported for paid independent providers by HC respondents. "MPC" edits were applied to providerreported sources and amounts of payment for records matched to household-reported events for all agency, hospital, and nursing home home health providers. Both sets of edits were used to correct obvious errors in the reporting of expenditures. Imputations for independent paid providers and for agencies, hospitals, and nursing homes were conducted separately.

Logical edits 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 the extent of its missing charge and expenditure data. For example, an event with a known total charge but no expenditure information was assigned to one category, while an event with a known total charge and partial expenditure information was assigned to a different category. Similarly, events without a known total charge and no or partial expenditure information were assigned to various recipient categories.

The logical edits produced nine recipient categories for HHP and eight recipient categories for HHA for events with missing data. Expenditures were imputed through separate hot-deck imputations for each of the eight recipient categories. The donor pool in these imputations was restricted to events with complete expenditures from either the HC or the MPC.

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. (This does not include MPCELIG=3 (informal) events. As stated previously, home health care provided by friends, family, or volunteers (informal, MPCELIG=3) was assumed not to have expenditures associated with it and was not included in any imputation process.)

2.5.4.3 Imputation Flag Variable (IMPFLAG)

Only one imputation flag was created for 2000 event files. This flag, IMPFLAG, is a sixcategory variable that indicates if the event contains complete Household Component (HC) or Medical Provider Component (MPC) data, was fully or partially imputed, or was imputed in the capitated imputation process. The following list identifies how the imputation flag is coded; the categories are mutually exclusive.

IMPFLAG=0 not eligible for imputation (includes zeroed out and leaf events) IMPFLAG=1 complete HC data IMPFLAG=2 complete MPC data IMPFLAG=3 fully imputed IMPFLAG=4 partially imputed IMPFLAG=5 complete MPC data through capitation imputation (not applicable

to HH)

2.5.4.4 Zero Expenditures

There are some medical 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 events were provided without a separate charge (e.g., after a surgical procedure). If all of the medical events for a person fell into one of these categories, then the total annual expenditures for that person would be zero. All expenditures for home health care provided by informal care providers (family, friends, or volunteers, MPCELIG=3) were assigned –1 "INAPPLICABLE" because those types of events were skipped out (never asked) of the questions regarding expenditures.

2.5.4.5 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. Veterans Administration, excluding TRICARE,
- 6. TRICARE, formerly CHAMPUS/CHAMPVA,
- 7. Other Federal sources includes Indian Health Service, Military Treatment Facilities, and other care by the Federal government,
- 8. Other State and Local sources includes community and neighborhood clinics, State and local health departments, and State programs other than Medicaid,

- 9. Worker's Compensation, and
- 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 events with apparent inconsistencies between insurance coverage and sources of payment based on data collected in the survey. 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 Medicare/Medicaid payments reported for persons who were not reported to be enrolled in the Medicare/Medicaid program at any time during the year.

Though relatively small in magnitude, data users/analysts 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.

2.5.4.6 Home Health Expenditure Variables (HHSF00X - HHXP00X)

Home health agency, hospital, and nursing home events are sampled at a rate of 100% for the MPC. Households were not asked any expenditure-related questions in regards to these types of events; therefore, there are no household reported expenditure data for these events. Conversely, paid independent providers are not included in the MPC. Household reported responses are the only data available for these types of events. All expenditure data for paid independent providers are fully imputed from household reported expenditures. There are no expenditure data for informal care providers. Informal care (MPCELIG=3, unpaid care provided by family, friends, or volunteers) was assigned -1, "INAPPLICABLE", in all expenditure categories.

The constructed variable MPCELIG is provided on this file. MPCELIG indicates whether the home health provider event was eligible for MPC data collection, and MPCELIG determines the imputation process applied to that event.

All of these expenditures have gone through an editing and imputation process and have been rounded to the nearest penny. HHSF00X - HHOT00X are the 12 sources of payment. HHTC00X is the total charge, and HHXP00X is the sum of the 12 sources of payment for the home health expenditures. The 12 source of payment are: self/family (HHSF00X), Medicare (HHMR00X), Medicaid (HHMD00X), private insurance (HHPV00X), Veterans Administration (HHVA00X), TRICARE (HHTR00X), other Federal sources (HHOF00X), State and Local (non-federal) government sources (HHSL00X), Worker's Compensation (HHWC00X), other private insurance (HHOR00X), other public insurance (HHOU00X), and other insurance (HHOT00X). Analysts can determine if a home health event was paid by an agency or some other paid independent provider by subsetting the variable MPCELIG to the appropriate and desired value.

2.5.4.7 Rounding

Expenditure variables on the 2000 home health event file have been rounded to the nearest penny. Person-level expenditure information released on the 2000 Person-Level Expenditure File was rounded to the nearest dollar. It should be noted that using the 2000 MEPS event files to create person-level totals will yield slightly different totals than those on the person-level expenditure file. These differences are due to rounding only. Moreover, in some instances, the number of persons having expenditures on the event files for a particular source of payment may differ from the number of persons with expenditures on the person-level expenditure file for that source of payment. This difference is also an artifact of rounding only. Please see the MEPS 2000 Appendix File, HC-051I, for details on such rounding differences.

3.0 Sample Weight (PERWT00F)

3.1 Overview

There is a single full year person-level weight (PERWT00F) assigned to each record for each key, in-scope person who responded to MEPS for the full period of time that he or she was in-scope during 2000. 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 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 Weight Construction

The person-level weight PERWT00F was developed in several stages. Person level weights for Panels 4 and 5 were created separately. The weighting process for each panel included an adjustment for nonresponse over time and poststratification. Poststratification was achieved by controlling to Current Population Survey (CPS) population estimates based on five variables. Variables used in the establishment of person-level poststratification control figures included: census region (Northeast, Midwest, South, West); MSA status (MSA, non-MSA); race/ethnicity (Hispanic, black but non-Hispanic, and other); sex; and age. A 2000 composite weight was then formed by multiplying each panel weight by .5 and then poststratifying the resulting weight to the same set of CPS-based control totals. When poverty status information derived from income variables became available, a final poststratification was done on the resulting weight variable, including 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) as well as the original five poststratification variables in the establishment of control totals.

3.2.1 MEPS Panel 4 Weight

The person-level weight for MEPS Panel 4 was developed using the 1999 full year weight for an individual as a "base" weight for survey participants present in 1999. For key, in-scope respondents who joined an RU some time in 2000 after being out of scope in 1999, the 1999 family weight associated with the family the person joined served as a "base" weight. The weighting process included an adjustment for nonresponse over Rounds 4 and 5 as well as poststratification to population control figures for December 2000. These control figures were derived by scaling back the population totals obtained from the March 2000 CPS to reflect the December 2000 CPS estimated population distribution across age and sex categories as of December 2000. Variables used in the establishment of person-level poststratification control figures included: 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 noninstitutionalized population on December 31, 2000 is 275,158,755. Key, responding persons not in-scope on December 31, 2000 but in-scope earlier in the year retained, as their final Panel 4 weight, the weight after the nonresponse adjustment.

3.2.2 MEPS Panel 5 Weight

The person-level weight for MEPS Panel 5 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 family weight served as a "base" weight. The weighting process included an adjustment for nonresponse over Round 2 and the 2000 portion of Round 3 as well as poststratification to the same population control figures for December

2000 used for the MEPS Panel 4 weights. The same five variables employed for Panel 4 poststratification (census region, MSA status, race/ethnicity, sex, and age) were used for Panel 5 poststratification. Similarly, for Panel 5, key, responding persons not in-scope on December 31, 2000 but in-scope earlier in the year retained, as their final Panel 5 weight, the weight after the nonresponse adjustment.

Note that the MEPS round 1 weights (for both panels with one exception as noted below) incorporated the following components: the original household probability of selection for the NHIS; ratio-adjustment to NHIS-based 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 2000 CPS data base.

3.2.3 The Final Weight for 2000

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 noninstitutionalized population for December 31, 2000 is 275,158,755 (PERWT00F>0 and INSC1231=1). The weights of some persons out-of-scope on December 31, 2000 were also poststratified. Specifically, the weights of persons out-of-scope on December 31, 2000 who were inscope some time during the year and also entered a nursing home during the year were poststratified to a corresponding control total obtained from the 1996 MEPS Nursing Home Component. The weights of persons who died while inscope during 2000 were poststratified to corresponding estimates derived using data obtained from the Medicare Current Beneficiary Survey (MCBS) and Vital Statistics information provided by the National Center for Health Statistics (NCHS). Separate control totals were developed for the "65 and older" and "under 65" civilian, noninstitutionalized populations.

3.2.4 Coverage

The target population for MEPS in this file is the 2000 U.S. civilian noninstitutionalized population. However, the MEPS sampled households are a subsample of the NHIS households interviewed in 1998 (Panel 4) and 1999 (Panel 5). New households created after the NHIS interviews for the respective Panels and consisting exclusively of persons who entered the target population after 1998 (Panel 4) or after 1999 (Panel 5) are not covered by MEPS. Neither are previously out of scope persons who join an existing household but are unrelated to the current household residents. Persons not covered by a given MEPS panel thus include some members of the following groups: immigrants; persons leaving the military; U.S. citizens returning from residence in another country; and persons leaving

institutions. The set of uncovered persons constitutes only a small proportion of the MEPS target population.

4.0 Strategies for Estimation

This file is constructed for efficient estimation of utilization, expenditures, and sources of payment for home health provider visits and to allow for estimates of number of persons with home health provider visits in 2000.

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 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 2.5.4.2.

4.2 Basic Estimates of Utilization, Expenditures, 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 home health provider visits utilization, expenditures, and sources of payment, the value in each record contributing to the estimates must be multiplied by the weight (PERWT00F) contained on that record.

Example 1

For example, the total number of home health paid independent provider visits, for the civilian noninstitutionalized population of the U.S. in 2000, is estimated as the sum of the weight (PERWT00F) across all home health paid independent provider records. That is,

$$\Sigma W_i = 3,683,952$$
 across all records with MPCELIG = 2 (1)

Example 2

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 paid independent home health provider event (for those who had such expense greater than 0) should be calculated as the weighted mean of the paid independent home health provider's bill paid by self/family. That is,

$$(\sum W_j X_j)/(\sum W_j) =$$
\$683.79 (2)

where

 $\sum W_i = 3,637,483$ and $X_i = HHSF00X_i$

for all home health visits by paid independent provider (MPCELIG=2) with HHXP00X_{j} > 0

This gives \$683.79 as the estimated mean amount of out-of-pocket payment of expenditures associated with home health events by paid independent providers and 3,637,483 as an estimate of the total number of home health events by paid independent providers with expenditure. Both of these estimates are for the civilian noninstitutionalized population of the U.S. in 2000.

Example 3

Another example would be to estimate the average proportion of total expenditures (where event expense is greater than 0) paid by private insurance for home health events by paid independent providers. This should be calculated as the weighted mean of the proportion of total expenditures paid by private insurance at the home health event-level. That is

$$(\sum W_j Y_j)/(\sum W_j) = 0.0344$$
 (3)

where

 $\sum W_i = 3,637,483$ and $Y_i = HHPV00X_i / HHXP00X_i$

for all home health visits by paid independent provider (MPCELIG=2) with HHXP00X_i > 0

This gives 0.0344 as the estimated mean proportion of total expenditures paid by private insurance for home health events by paid independent providers with expenditures for the civilian noninstitutionalized population of the U.S. in 2000.

4.3 Estimates of the Number of Persons with Home Health Events Due to Hospitalization

When calculating an estimate of the total number of persons with home health events by paid independent providers, users can use a person-level file 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 home health events where services were provided due to hospitalization, this event file must be used. This would be estimated as,

$$\sum W_i X_i$$
 across all unique persons i on this file (4)

where

W_i is the sampling weight (PERWT00F) for person i

and

 $X_i = 1$ if HOSPITAL_j = 1 for any home health visits by paid independent provider of person i

= 0 otherwise.

4.4 Person-Based Ratio Estimates

4.4.1 Person-Based Ratio Estimates Relative to Persons with Home Health Events by Paid Independent Providers

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 home health events by paid independent providers (MPCELIG =2) is estimated as,

 $(\sum W_i Z_i)/(\sum W_i)$ across all unique persons i on this file (5)

where

W_i is the sampling weight (PERWT00F) for person i

and

 $Z_i = \sum HHXP00X_j$ across all home health visits by paid independent provider 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 home health provider event are represented on this data file. In this case, the Full Year Consolidated, which has data for all sampled persons, must be used to estimate the total number of persons (i.e., those with events and those without events).

For example, to estimate the proportion of the civilian noninstitutionalized population of the U.S. with at least one home health event by a paid independent provider, the numerator would be derived from data on this event file, and the denominator would be derived from data on the person-level file. That is,

$$(\sum W_i Z_i)/(\sum W_i) \quad \text{across all unique persons i on the} \\ \text{MEPS HC FY person-level file}$$
(6)

where

W_i is the sampling weight (PERWT00F) for person i

and

 $Z_i = 1$ if MPCELIG_j = 2 for any home health visits by paid independent provider of person i

= 0 otherwise.

4.5 Sampling Weights for Merging Previous Releases of MEPS Household Data with this Event File

There have been several previous releases of MEPS Household Survey public use data. Unless a variable name common to several files 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.

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 one 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 (VARPSU00, VARSTR00)

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 2000 data. Variables needed to implement a Taylor Series estimation approach are provided in the file and 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 VARSTR00 and VARPSU00, 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.

Examples 2 and 3 from Section 4.2

Using a Taylor Series approach, specifying VARSTR00 and VARPSU00 as the variance estimation strata and PSUs (within these strata) respectively and specifying a "with replacement" design in a computer software package (i.e., SUDAAN will yield standard error estimates of \$153.12 and 0.0168 for the estimated mean of out-of-pocket payment and the estimated mean proportion of total expenditures paid by private insurance respectively.

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, or the details on where to find the instructions, for linking the 2000 home health provider events with other 2000 MEPS public use files, including the 2000 conditions file and a 2000 person-level file.

5.1 Linking a 2000 Person-Level File to the 2000 Home Health Event File

Merging characteristics of interest from other 2000 MEPS files (e.g., the 2000 Full Year Population Characteristics File or the 2000 Prescribed Medicines File) expands the scope of potential estimates. For example, to estimate the total number of home health provider events of persons with specific characteristics (e.g., age, race, and sex), population characteristics from a person-level file need to be merged onto the home health provider file. This procedure is illustrated below. The MEPS 2000 Appendix File, HC-051I, provides additional details on how to merge 2000 MEPS data files.

- 1. Create data set PERSX by sorting the 2000 Full Year Population Characteristics File by the person identifier, DUPERSID. Keep only variables to be merged on to the home health provider event file and DUPERSID.
- 2. Create data set HVIS by sorting the home health provider event file by person identifier, DUPERSID.
- 3. Create final date set NEWHVIS by merging these two files by DUPERSID, keeping only records on the home health provider event file.

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

```
PROC SORT DATA=HCXXX(KEEP=DUPERSID AGE31X AGE42X
AGE53X SEX RACEX EDUCYR) OUT=PERSX;
BY DUPERSID;
RUN;
PROC SORT DATA=HVIS;
BY DUPERSID;
RUN;
DATA NEWHVIS;
MERGE HVIS (IN=A) PERSX(IN=B);
BY DUPERSID;
IF A;
RUN;
```

5.2 Linking the 2000 Home Health Event File to the 2000 Medical Conditions File

Due to survey design issues, there are limitations/caveats that data users/analysts must keep in mind when linking the different files. These limitations/caveats are listed below. For detailed linking examples, including SAS code, data users/analysts should refer to the MEPS 2000 Appendix File, HC-051I.

5.2.1 Limitations/Caveats of CLNK (the 2000 Medical Conditions Link File)

The CLNK provides a link from 2000 MEPS event files to the 2000 Medical Conditions File. When using the CLNK, data users/analysts should keep in mind that (1) conditions are self-reported and (2) there may be multiple conditions associated with a home health provider event. Data users/analysts should also note that not all home health provider events link to the condition file.

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D. VARIABLE-SOURCE CROSSWALK

VARIABLE-SOURCE CROSSWALK

FOR MEPS HC-051H: 2000 HOME HEALTH VISITS

Survey Administration Variables

Variable	Description	Source
DUID	Dwelling unit ID	Assigned in sampling
PID	Person number	Assigned in sampling
DUPERSID	Person ID (DUID + PID)	Assigned in sampling
EVNTIDX	Event ID	Assigned in Sampling
EVENTRN	Event round number	CAPI derived

Home Health Events Variables

Variable	Description	Source
HHDATEYR	Event date – year	CAPI derived
HHDATEMM	Event date – month	CAPI derived
MPCELIG	MPC eligibility flag	Constructed
SELFAGEN	Does provider work for agency or self	EV06A
ННТҮРЕ	Home health event type	EV06
CNA	Type of health care worker – certified nurse assistant	HH01
COMPANN	Type of health care worker – companion	HH01
DIETICN	Type of health care worker – dietitian/nutritionist	HH01
HHAIDE	Type of health care worker – home care aide	HH01
HOSPICE	Type of health care worker – hospice worker	HH01
HMEMAKER	Type of health care worker - homemaker	HH01
IVTHP	Type of health care worker – IV therapist	HH01
MEDLDOC	Type of health care worker – medical doctor	HH01

Variable	Description	Source
NURPRACT	Type of health care worker – nurse/practitioner	HH01
NURAIDE	Type of health care worker – nurse's aide	HH01
OCCUPTHP	Type of health care worker – occupational therapist	HH01
PERSONAL	Type of health care worker – personal care attendant	HH01
PHYSLTHP	Type of health care worker – physical therapy	HH01
RESPTHP	Type of health care worker – respiratory therapy	HH01
SOCIALW	Type of health care worker – social worker	HH01
SPEECTHP	Type of health care worker – speech therapy	HH01
OTHRHCW	Type of health care worker – other	HH01
NONSKILL	Type of health care worker – non-skilled	HH02
SKILLED	Type of health care worker – skilled	HH02
SKILLWOS	Specify type of skilled worker	HH02OV1
OTHCW	Type of health care worker – some other	HH02
OTHCWOS	Specify other type health care worker	HH02OV2
HOSPITAL	Any home health care service due to hospitalization	НН03
VSTRELCN	Any Home Health Care Service Related to Health Condition	HH04
TREATMT	Person received medical treatment	HH06
MEDEQUIP	Person was taught use of medical equipment	HH07
DAILYACT	Person was helped with daily activities	HH08
COMPANY	Person received companionship services	HH09
OTHSVCE	Person received other home care services	HH10
OTHSVCOS	Specify other home care services received	HH10OV
FREQCY	Provider helped every week/some weeks	HH11
DAYSPWK	# days per week provider came (agency only)	HH12
DAYSPMO	# days per month provider came (agency only)	HH13
HOWOFTEN	Provider came once per day/more than once per day	HH14
TMSPDAY	Times/day provider came to home to help	HH15
HRSLONG	Hours each visit lasted	HH16

Variable	Description	Source
MINLONG	Minutes each visit lasted	HH16
SAMESVCE	Any other months person received same services	HH17
HHDAYS	Days per month in home health, 2000	Constructed

Imputed Expenditure Variables

Variable	Description	Source
HHSF00X	Amount paid, self/family (Imputed)	CP Section (Edited)
HHMR00X	Amount paid, Medicare (Imputed)	CP Section (Edited)
HHMD00X	Amount paid, Medicaid (Imputed)	CP Section (Edited)
HHPV00X	Amount paid, private insurance (Imputed)	CP Section (Edited)
HHVA00X	Amount paid, Veterans Administration (Imputed)	CP Section (Edited)
HHTR00X	Amount paid, TRICARE (Imputed)	CP Section (Edited)
HHOF00X	Amount paid, other federal (Imputed)	CP Section (Edited)
HHSL00X	Amount paid, state & local government (Imputed)	CP Section (Edited)
HHWC00X	Amount paid, workers' compensation (Imputed)	CP Section (Edited)
HHOR00X	Amount paid, other private insurance (Imputed)	Constructed
HHOU00X	Amount paid, other public insurance (Imputed)	Constructed
HHOT00X	Amount paid, other insurance (Imputed)	CP Section (Edited)
HHXP00X	Sum of HHSF00X – HHOT00X (Imputed)	Constructed
HHTC00X	Household reported total charge (Imputed)	CP Section (Edited)
IMPFLAG	Imputation status	Constructed

Weights

Variable	Description	Source
PERWT00F	Final person level weight, 2000	Constructed
VARPSU00	Variance estimation PSU, 2000	Constructed
VARSTR00	Variance estimation stratum, 2000	Constructed