

# **MEPS HC-235**

## **Panel 24, 3-Year Longitudinal Data File**

**October 2023**

**Due to the COVID-19 pandemic, 2020 data collection moved primarily to phone rather than in-person. This posed a challenge in Panel 25 Round 1, which was difficult to start via phone, resulting in a low response rate. To balance this and increase the number of completes to be comparable to previous years, Panels 23 and 24 were extended to nine rounds of data collection. Phone data collection and the challenges of the pandemic present concerns about data quality. Please take this into consideration when comparing to or pooling with previous years.**

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## A. Data Use Agreement

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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. Furthermore, linkage of the Medical Expenditure Panel Survey and the National Health Interview Survey may not occur outside the AHRQ Data Center, NCHS Research Data Center (RDC) or the U.S. Census RDC network.

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 Title 18 part 1 Chapter 47 Section 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**

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### **1.0 Household Component**

The Medical Expenditure Panel Survey (MEPS) provides nationally representative estimates of health care use, expenditures, sources of payment, and health insurance coverage for the U.S. civilian non-institutionalized population. The MEPS Household Component (HC) also provides estimates of respondents' health status, demographic and socio-economic characteristics, employment, access to care, and satisfaction with healthcare. Estimates can be produced for individuals, families, and selected population subgroups. The panel design of the survey includes five rounds of interviews covering two full calendar years. Additional rounds were added in 2020 and 2021, covering third and fourth years respectively, to compensate for the smaller number of completed interviews in later panels. These extra rounds provide data for examining person-level changes in selected variables such as expenditures, health insurance coverage, and health status. Using computer assisted personal interviewing (CAPI) technology, information about each household member is collected, and the survey builds on this information from interview to interview. All data for a sampled household are reported by a single household respondent.

The MEPS-HC was initiated in 1996. Each year a new panel of sample households is selected. Because the data collected are comparable to those from earlier medical expenditure surveys conducted in 1977 and 1987, it is possible to analyze long-term trends. Each annual MEPS-HC sample size is about 15,000 households. Data can be analyzed at either the person or event level. Data must be weighted to produce national estimates.

The set of households selected for each panel of the MEPS HC is a subsample of households participating in the previous year's National Health Interview Survey (NHIS) conducted by the National Center for Health Statistics. The NHIS sampling frame provides a nationally representative sample of the U.S. civilian noninstitutionalized population. In 2006, the NHIS implemented a new sample design, which included Asian persons in addition to households with Black and Hispanic persons in the oversampling of minority populations. NHIS introduced a new sample design in 2016 that discontinued oversampling of these minority groups.

### **2.0 Medical Provider Component**

Upon completion of the household CAPI interview and obtaining permission from the household survey respondents, a sample of medical providers are contacted by telephone to obtain information that household respondents cannot accurately provide. This part of the MEPS is called the Medical Provider Component (MPC) and information is collected on dates of visit, diagnosis and procedure codes, charges and payments. The Pharmacy Component (PC), a subcomponent of the MPC, does not collect charges or diagnosis and procedure codes but does collect drug detail information, including National Drug Code (NDC) and medicine name, as well as amounts of payment. The MPC is not designed to yield national estimates. It is primarily used as an imputation source to supplement/replace household reported expenditure information.

### **3.0 Survey Management and Data Collection**

MEPS HC and MPC data are collected under the authority of the Public Health Service Act. Data are collected under contract with Westat, Inc. (MEPS HC) and Research Triangle Institute (MEPS MPC). Data sets and summary statistics are edited and published in accordance with the confidentiality provisions of the Public Health Service Act and the Privacy Act. The National Center for Health Statistics (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, micro data files, and tables via the [MEPS website](#).

Additional information on MEPS is available from the MEPS project manager or the MEPS public use data manager at the Center for Financing, Access, and Cost Trends, Agency for Healthcare Research and Quality, 5600 Fishers Lane, Rockville, MD 20857 (301-427-1406).

## C. Technical and Programming Information

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### 1.0 General Information

This documentation describes the Panel 24, 3-year longitudinal data file from the Medical Expenditure Panel Survey Household Component (MEPS-HC). Released as an ASCII file (with related SAS, STATA, SPSS, and R programming statements and data user information), a SAS data set, a SAS transport dataset, a STATA dataset, and an Excel file, this public use file provides information collected on a nationally representative sample of the civilian noninstitutionalized population of the United States for the three-year period 2019-2021. The file contains 4,072 variables and has a logical record length of 11,518 with an additional 2-byte carriage return/line feed at the end of each record.

This file consists of MEPS survey data obtained in Rounds 1-7 of MEPS Panel 24 and can be used to analyze changes over a three-year period. Variables in the file pertaining to survey administration, demographics, employment, health status, disability days, quality of care, patient satisfaction, health insurance and medical care use and expenditures were obtained from the MEPS 2019, 2020, and 2021 Full-Year Consolidated Files (HC-216, HC-224, and HC-233, respectively).

The following documentation offers a brief overview of the contents and structure of the files and programming information. A codebook of all the variables included in the Panel 24, 3-year data file is provided in a separate file (H235CB.PDF). A database of all MEPS products released to date and a variable locator indicating the major MEPS data items on public use files that have been released to date can be found on the [MEPS website](#).

### 2.0 Data File Information

This public use file contains records for 6,714 persons in Panel 24 who were respondents for the period they were in-scope for the survey (i.e., a member of the civilian non-institutionalized population) during the three-year period. Only persons with positive person-level weights (PERWT19F, PERWT20F, or PERWT21F) are included in the longitudinal PUF data. Data are available for all seven rounds for 90.01% of the cases (6,043 persons). The remaining 9.99% (671 persons) do not have data for one or more rounds but were in-scope for all rounds they participated in the survey. These persons are those who were born, died, were in the military or an institution, or left the country during the three-year period. In contrast, persons in the panel who participated in the survey for only part of the period they were in-scope are not included in this file. To compensate for this attrition, adjustments were made in the construction of the panel weight variable included in this file (LONGWT). The codebook provides both weighted and unweighted frequencies for each variable on the data file. The LONGWT variable should be used to produce national estimates for the three-year period.

## 2.1 Variables

### 2.1.1 Variables from Annual Full-Year Consolidated Files

Most variables on this file were obtained from the MEPS 2019, 2020, and 2021 Full-Year Consolidated Files (HC-216, HC-224, and HC-233, respectively). However, names for time dependent variables from these files were modified in order to: 1) eliminate duplicate variable names for data reflecting different time periods during the panel, and 2) standardize variable names to facilitate pooling of multiple MEPS panels for analysis.<sup>1</sup> Generally, annual variables with a suffix of “19”, “20”, and “21” are renamed with a suffix of “Y1”, “Y2”, and “Y3”, respectively. Variables with a suffix of “31”, “42”, and “53” are renamed with a suffix denoting the round the data was collected (i.e., “1”, “2” or “3” for variables originating from Rounds 1-3 on the 2019 full-year file, “3”, “4”, or “5” for variables originating from Rounds 3-5 on the 2020 full-year file, and “5”, “6”, or “7” for variables originating from Round 5-7 on the 2021 full-year file).<sup>2</sup> It is necessary to use this crosswalk in conjunction with documentation for the 2019, 2020, and 2021 full-year consolidated files to obtain a full description of variables on this file. Table 1 below provides the crosswalk summarizing the scheme used for renaming variables from the annual files.

Table 1. Crosswalk of Variable Names between the Full-Year Consolidated Files and the Longitudinal File

Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
Constant (i.e., not round or year specific)	No suffixes	No suffixes	All variables: BORNUSA=BORNUSA DOBMM=DOBMM DOBY=DOBY DUID=DUID PID=PID DUPERSID=DUPERSID EDUCYR=EDUCYR HIDEG=HIDEG HISPANX=HISPANX HISPNCAT=HISPNCAT HWELLSPK=HWELLSPK INTVLANG=INTVLANG OTHLGSPK=OTHLGSPK

<sup>1</sup> A variable named PANEL is also included to facilitate pooling across panels. This variable is simply the panel number and is therefore constant across all records within a longitudinal file. The ten-character variable DUPERSID uniquely identifies each person represented on the file and is the combination of the variables DUID (PANEL + Dwelling Unit ID) and PID (Person Number).

<sup>2</sup> While Round 3 values were obtained for most observations from the 2020 Full Year Consolidated File, they were obtained from the 2019 Full Year Consolidated File for sample persons not in the 2020 data (YEARIND=2 or 6). Similarly, values Round 5 variables were obtained for most observations from the 2021 Full Year Consolidated File, but were obtained from the 2020 Full Year Consolidated File for sample persons not in the 2021 data (YEARIND=3 or 5).

Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
			PANEL=PANEL PID=PID RACEAX=RACEAX RACEBX=RACEBX RACEWX=RACEWX RACEV1X=RACEV1X RACEV2X=RACEV2X RACETHX=RACETHX SEX=SEX VARPSU=VARPSU VARSTR=VARSTR WHTLGSPK=WHTLGSPK YRSINUS=YRSINUS
Annual, family related variables	YR	Y1 or YR1  Y2 or YR2  Y3 or YR3	All variables: FAMIDYR=FAMIDYR1 (2019 file) FAMRFPYR=FAMRFPY1 (2019 file) FAMSZEYR=FAMSZYR1 (2019 file)  FAMIDYR=FAMIDYR2 (2020 file) FAMRFPYR=FAMRFPY2 (2020 file) FAMSZEYR=FAMSZYR2 (2020 file)  FAMIDYR=FAMIDYR3 (2021 file) FAMRFPYR=FAMRFPY3 (2021 file) FAMSZEYR=FAMSZYR3 (2021 file)
Annual, CPS family identifiers	No suffix	Y1  Y2  Y3	All variables: CPSFAMID=CPSFAMY1 (2019 file)  CPSFAMID=CPSFAMY2 (2020 file)  CPSFAMID=CPSFAMY3 (2021 file)
Annual, health insurance eligibility units	No suffix	Y1  Y2  Y3	All variables: HIEUIDX=HIEUIDY1 (2019 file)  HIEUIDX=HIEUIDY2 (2020 file)  HIEUIDX=HIEUIDY3 (2021 file)
Annual, in-scope variables	No suffixes	YR1  YR2  YR3	All variables: INSCOPE=INSCPYPYR1 (2019 file)  INSCOPE=INSCPYPYR2 (2020 file)  INSCOPE=INSCPYPYR3 (2021 file)
12/31 status variables	1231 in 2019 file	Y1	All variables: FAMS1231=FAMSY1 (2019 file) FCRP1231=FCRPY1 (2019 file) FCSZ1231=FCSZY1 (2019 file) FMRS1231=FMRSY1 (2019 file)



Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
	1231 in 2020 file	Y2	INSC1231=INSCY1 (2019 file) FAMS1231=FAMSY2 (2020 file) FCRP1231=FCRPY2 (2020 file) FCSZ1231=FCSZY2 (2020 file) FMRS1231=FMRSY2 (2020 file) INSC1231=INSCY2 (2020 file)
	1231 in 2021 file	Y3	FAMS1231=FAMSY3 (2021 file) FCRP1231=FCRPY3 (2021 file) FCSZ1231=FCSZY3 (2021 file) FMRS1231=FMRSY3 (2021 file) INSC1231=INSCY3 (2021 file)
Annual	19, 19X, 19F, or 19C	Y1, Y1X, Y1F, or Y1C	Examples: TOTEXP19=TOTEXPY1 AGE19X=AGEY1X
	20, 20X, 20F, or 20C	Y2, Y2X, Y2F, or Y2C	TOTEXP20=TOTEXPY2 AGE20X=AGEY2X
	21, 21X, 21F, or 21C	Y3, Y3X, Y3F, or Y3C	TOTEXP21=TOTEXPY3 AGE21X=AGEY3X
Variables for health insurance prior to January 1, 2019 (data collected in Round 1 only)	No suffixes	No suffixes	All variables: PREVCOVR=PREVCOVR MORECOVR=MORECOVR
Annual	No suffixes <sup>3</sup>	Y1	Examples: KEYNESS=KEYNESY1 (2019 file) SAQELIG=SAQELIY1 (2019 file) EVRWRK=EVRWRKY1 (2019 file) EVRETIRE=EVRETIY1 (2019 file) AGELAST=AGELSTY1 (2019 file) DIABDX_M18=DIABDXY1_M18 (2019 file)
		Y2	KEYNESS=KEYNESY2 (2020 file) SAQELIG=SAQELIY2 (2020 file) EVRWRK=EVRWRKY2 (2020 file) EVRETIRE=EVRETIY2 (2020 file) AGELAST=AGELSTY2 (2020 file) DIABDX_M18=DIABDXY2_M18 (2020 file)

<sup>3</sup> To maintain a previously-implemented 8-character naming convention, some variable names had the last character or two dropped in the renaming process. A few variables have names longer than 8 characters because they were modified in 2018 and tagged with an ‘\_M18’ suffix. These variables were altered in the same fashion they would have been without the \_M18 suffix, and the \_M18 suffix was retained.

Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
		Y3	KEYNESS=KEYNESY3 (2021 file) SAQELIG=SAQELIY3 (2021 file) EVRWRK=EVRWRKY3 (2021 file) EVRETIRE=EVRETIY3 (2021 file) AGELAST=AGELSTY3 (2021 file) DIABDX_M18=DIABDXY3_M18 (2021 file)
Monthly	2-character month + 19 2-character month + 20 2-character month + 21	2-character month + Y1 2-character month + Y2 2-character month + Y3	Example: PRIJA19=PRIJAY1 (2019 file) PRIJA20=PRIJAY2 (2020 file) PRIJA21=PRIJAY3 (2021 file)
Round Specific	31, 31X, or 31H in 2019 file 42, 42X, or 42H in 2019 file 53, 53X, or 53H in 2019 file 31_M18 in 2019 file 42_M18 in 2019 file  31, 31X, or 31H in 2020 file 42, 42X, or 42H in 2020 file 53, 53X, or 53H in 2020 file 31_M18 in 2020 file 42_M18 in 2020 file 53_M18 in 2020 file  31, 31X, or 31H in 2021 file 42, 42X, or 42H in 2021 file 53, 53X, or 53H in 2021 file 31_M18 in 2021 file 42_M18 in 2021 file 53_M18 in 2021 file	1, 1X, or 1H for 2019  2, 2X, or 2H for 2019  3, 3X, or 3H for 2019  1_M18 for 2019 2_M18 for 2019  3, 3X, 3H for 2020  4, 4X, 4H for 2020  5, 5X, 5H for 2020  3_M18 for 2020 4_M18 for 2020 5_M18 for 2020  5, 5X, 5H for 2021  6, 6X, 6H for 2021  7, 7X, 7H for 2021  5_M18 for 2021 6_M18 for 2021 7_M18 for 2021	Examples: RTHLTH31=RTHLTH1 (2019 file)  RTHLTH42=RTHLTH2 (2019 file)  RTHLTH53=RTHLTH3 (2019 file if YEARIND=2 or 6) JTPAIN31_M18=JTPAIN1_M18 PROVTY42_M18=PROVTY2_M18  RTHLTH31= RTHLTH3 (2020 file if YEARIND=1, 3, 5, or 7) RTHLTH42=RTHLTH4 (2020 file)  RTHLTH53=RTHLTH5 (2020 file if YEARIND=3 or 5) JTPAIN31_M18=JTPAIN3_M18 PROVTY42_M18=PROVTY4_M18 JTPAIN53_M18=JTPAIN5_M18  RTHLTH31= RTHLTH5 (2021 file if YEARIND=1, 4, 6, or 7) RTHLTH42=RTHLTH6 (2021 file)  RTHLTH53=RTHLTH7 (2021 file)  JTPAIN31_M18=JTPAIN5_M18 PROVTY42_M18=PROVTY6_M18 JTPAIN53_M18=JTPAIN7_M18
Diabetes Preventive Care	1853, 1953, and 2053 in 2019 file  1953, 2053, and 2153 in 2020 file	Y0R3 for 2018 Y1R3 for 2019 Y2R3 for 2020  Y1R5 for 2019 Y2R5 for 2020 Y3R5 for 2021	Example: DSEY1853=DSEYY0R3 (2019 file) DSEY1953=DSEYY1R3 (2019 file) DSEY2053=DSEYY2R3 (2019 file)  DSEY1953=DSEYY1R5 (2020 file) DSEY2053=DSEYY2R5 (2020 file) DSEY2153=DSEYY3R5 (2020 file)

Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
	2053, 2153, and 2253 in 2021 file	Y2R7 for 2020 Y3R7 for 2021 Y4R7 for 2022	DSEY2053=DSEYY2R7 (2021 file) DSEY2153=DSEYY3R7 (2021 file) DSEY2253=DSEYY4R7 (2021 file)
Job Change	3142 or 4253	12 for 2019 23 for 2019  34 for 2020 45 for 2020  56 for 2021 67 for 2021	All variables: CHGJ3142=CHGJ12 (2019 file) CHGJ4253=CHGJ23 (2019 file) YCHJ3142=YCHJ12 (2019 file) YCHJ4253=YCHJ23 (2019 file)  CHGJ3142=CHGJ34 (2020 file) CHGJ4253=CHGJ45 (2020 file) YCHJ3142=YCHJ34 (2020 file) YCHJ4253=YCHJ45 (2020 file)  CHGJ3142=CHGJ56 (2021 file) CHGJ4253=CHGJ56 (2021 file) YCHJ3142=YCHJ67 (2021 file) YCHJ4253=YCHJ67 (2021 file)
Cancer	No suffixes <sup>4</sup>	Y1 for 2019  Y2 for 2020  Y3 for 2021	Example: CALUNG=CALUNGY1 (2019 file)  CALUNG=CALUNGY2 (2020 file)  CALUNG=CALUNGY3 (2021 file)
Age of Diagnosis	No suffixes <sup>4</sup>	Y1 for 2019  Y2 for 2020  Y3 for 2021	Example: CHDAGED=CHDAGY1 (2019 file) CHOLAGED=CHOLAGY1(2019 file)  CHDAGED=CHDAGY2 (2020 file) CHOLAGED=CHOLAGY2(2020 file)  CHDAGED=CHDAGY3 (2021 file) CHOLAGED=CHOLAGY3(2021 file)
SDOH <sup>5</sup>	No suffixes	5	Example: SDOHELIG=SDOHELIG5 SDAFRDHOME=SDAFRDHOME5

### 2.1.2 Constructed Variables for Selection of Group

The following eight variables were constructed and included on the file to facilitate the selection

<sup>4</sup> To maintain a previously implemented 8-character naming convention, some variable names had the last character or two dropped in the renaming process.

<sup>5</sup> The SDOH survey was fielded during Panel 24 Round 5 of the MEPS data collection.

of appropriate cases for various analyses. Table 2 below contains descriptive statistics for these variables.

YEARIND	1=all three years, 2=in 2019 only, 3=in 2020 only, 4=in 2021 only, 5=in 2019 and 2020, 6=in 2019 and 2021, and 7=in 2020 and 2021
ALL7RDS	In scope and data collected in all seven rounds (0=no, 1=yes)
DIED	Died during the three-year survey period (0=no, 1=yes)
INST	Institutionalized for some time during the three-year survey period (0=no, 1=yes)
MILITARY	Active duty military for some time during the three-year survey period (0=no, 1=yes)
ENTRSRVY	Entered survey after beginning of panel (mainly births; also includes persons who had no initial chance of selection who moved into a MEPS sample household) (0=no, 1=yes)
LEFTUS	Moved out of the country after beginning of panel (0=no, 1=yes)
OTHER	Not identified in any of the above analytic groups (0=no, 1=yes)

Table 2. Frequencies and Percentage for Constructed Variables

Variable	Number of Records	Percentage of Records (N=6,714)
YEARIND=1 (i.e., person in all three years)	6,334	94.34
ALL7RDS=1 (yes)	6,043	90.01
DIED=1 (yes)	268	3.99
INST=1 (yes)	37	0.55
MILITARY=1 (yes)	27	0.40
ENTRSRVY=1 (yes)	279	4.16
LEFTUS=1 (yes)	24	0.36
OTHER=1 (yes)	46	0.69

Following are examples of situations where these variables would be useful in selecting records for analysis:

- Analysts interested in working only with persons who were in-scope and had data for all seven rounds of the panel should subset to cases where ALL7RDS=1.
- If a researcher wanted to include persons who were in-scope and had data for all seven rounds of the panel as well as those in the survey at the beginning of the panel who subsequently died, then they would include cases where ALL7RDS=1 or (ENTRSRVY=0 and DIED=1).
- If a researcher wanted to include persons who were in-scope and had data for all seven rounds of the panel as well as those who died in the second or third year of the panel, then they would include cases where ALL7RDS=1 or (DIED=1 and YEARIND=1 or 5).

### **2.1.3 Estimation Variables**

#### ***Longitudinal Estimations for Panel 24***

The file contains a weight variable (LONGWT) and variance estimation variables (VARSTR, VARPSU) that should be applied when producing national estimates for longitudinal analyses. For example, LONGWT applied to the 6,043 cases where ALL7RDS=1 produces a weighted population estimate of 306.0 million. This represents an estimate of the number of persons in the civilian noninstitutionalized population for the entire three-year period from 2019-2021. 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 by specifying the estimation variables including stratum of sample selection (VARSTR), primary sampling unit (VARPSU) and longitudinal weight (LONGWT).

This longitudinal file also contains a longitudinal SAQ weight variable (LSAQWT). This weight variable should be used to perform longitudinal analyses involving any variables from the self-administered questionnaire (SAQ) which was administered to persons age 18 and older in Rounds 2, 4, and 6 of the survey. The variable SAQRDS246 can be used to identify which persons have SAQ data for all three rounds; the variable SAQRDS24 can be used to identify which persons have SAQ data for Rounds 2 and 4; and the variable SAQRDS46 can be used to identify which persons have SAQ data for Rounds 4 and 6. Table 3 below provides the estimated population size (i.e., the sum of LSAQWT values) for cases with all three rounds of SAQ data (i.e., SAQRDS246=1) and for cases with two rounds of SAQ data (i.e., SAQRDS24=1 or SAQRDS46=1). The estimated population size for analyses based on the 2,890 cases with SAQ data for all three rounds (i.e., SAQRDS246=1) is 194.0 million.

Table 3. Number of Respondents and Estimated Population Size for SAQ Analyses

SAQ Variable	Value	Description	Number of Respondents (Unweighted)	Estimated Population Size (Weighted by LSAQWT)
SAQRDS246	0	Persons with less than three rounds of SAQ data	3,905	61,725,938
SAQRDS246	1	Persons with all three rounds of SAQ data	2,809	193,974,115
SAQRDS24	0	Persons without SAQ data for Rounds 2 and 4	3,286	61,009,762
SAQRDS24	1	Persons with SAQ data for Rounds 2 and 4	3,428	194,690,292
SAQRDS46	0	Persons without SAQ data for Rounds 4 and 6	3,746	48,956,256
SAQRDS46	1	Persons with SAQ data for Rounds 4 and 6	2,968	206,743,797
Total	Total	All SAQ respondents	6,714	255,700,054

### ***Pooled Estimations***

When analyzing subpopulations and/or low prevalence events, it may be desirable to pool together more than one panel of MEPS-HC data to yield sample sizes large enough to generate reliable estimates. Panel 24 is the second panel to include three years of data, so this three-year file should only be combined with the three-year Panel 23 longitudinal data file (MEPS-HC 226). However, the two-year Panel 24 longitudinal file (HC-225) may be pooled with other two-year longitudinal data files. Please refer to the [MEPS website](#) for information about the two-year Panel 24 longitudinal data file and pooling it with other years.