MEPS HC-226
Panel 23 Three-Year Longitudinal Data File

December 2022

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 is 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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Table of Contents

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. 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

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 typically includes five rounds of interviews covering two full calendar years. In 2020, in order to increase the number of completed interviews, the panel design has been extended to include seven rounds of interviews covering three full calendar years. The panel design of MEPS provides 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

1.0 General Information

This documentation describes the Panel 23 Three-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 2018-2020. The file contains 4,061 variables and has a logical record length of 11,587 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 23 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 2018, 2019, and 2020 Full-Year Consolidated Files (HC-209, HC-216, and HC-224, 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 23 three-year data file is provided in a separate file (H226CB.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 9,200 persons in Panel 23 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 (PERWT18F, PERWT19F, or PERWT20F) are included in the longitudinal PUF data. Data are available for all seven rounds for 90.0% of the cases (8,279 persons). The remaining 10.0% (921 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 2018, 2019, and 2020 Full-Year Consolidated Files (HC-209, HC-216, and HC-224, 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.[1] Generally, annual variables with a suffix of "18","19", and "20" 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 2018 full-year file, "3", "4", or "5" for variables originating from Rounds 3-5 on the 2019 full-year file, and "5", "6", or "7" for variables originating from Round 5-7 on the 2020 full-year file).[2] It is necessary to use this crosswalk in conjunction with documentation for the 2018, 2019, and 2020 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 DOBYY=DOBYY DUID=DUID PID=PID DUPERSID=DUPERSID EDUCYR=EDUCYR HIDEG=HIDEG HISPANX=HISPANX HISPNCAT=HISPNCAT HWELLSPK=HWELLSPK INTVLANG=INTVLANG

[1] 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).

[2] While Round 3 values were obtained for most observations from the 2019 Full Year Consolidated File, they were obtained from the 2018 Full Year Consolidated File for sample persons not in the 2019 data (YEARIND=2 or 6). Similarly, values for health insurance and employment-related Round 5 variables were obtained for most observations from the 2020 Full Year Consolidated File, but were obtained from the 2019 Full Year Consolidated File for sample persons not in the 2020 data (YEARIND=3 or 5). Values for all other Round 5 variables were obtained from the 2019 Full Year Consolidated File.

Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
			OTHLGSPK=OTHLGSPK 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 (2018 file) FAMRFPYR=FAMRFPY1 (2018 file) FAMSZEYR=FAMSZYR1 (2018 file) FAMIDYR=FAMIDYR2 (2019 file) FAMRFPYR=FAMRFPY2 (2019 file) FAMSZEYR=FAMSZYR2 (2019 file) FAMIDYR=FAMIDYR3 (2020 file) FAMRFPYR=FAMRFPY3 (2020 file) FAMSZEYR=FAMSZYR3 (2020 file)
Annual, CPS family identifiers	No suffix	Y1 Y2 Y3	All variables: CPSFAMID= CPSFAMY1 (2018 file) CPSFAMID= CPSFAMY2 (2019 file) CPSFAMID= CPSFAMY3 (2020 file)
Annual, health insurance eligibility units	No suffix	Y1 Y2 Y3	All variables: HIEUIDX=HIEUIDY1 (2018 file) HIEUIDX=HIEUIDY2 (2019 file) HIEUIDX=HIEUIDY3 (2020 file)
Annual, in-scope variables	No suffixes	YR1 YR2 YR3	All variables: INSCOPE=INSCPYR1 (2018 file) INSCOPE=INSCPYR2 (2019 file) INSCOPE=INSCPYR3 (2020 file)
12/31 status variables	1231 in 2018 file	Y1	All variables: FAMS1231=FAMSY1 (2018 file) FCRP1231=FCRPY1 (2018 file) FCSZ1231= FCSZY1 (2018 file)

Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
			FMRS1231= FMRSY1 (2018 file) INSC1231=INSCY1 (2018 file)
	1231 in 2019 file	Y2	FAMS1231=FAMSY2 (2019 file) FCRP1231=FCRPY2 (2019 file) FCSZ1231= FCSZY2 (2019 file) FMRS1231= FMRSY2 (2019 file) INSC1231=INSCY2 (2019 file)
	1231 in 2020 file	Y3	FAMS1231=FAMSY3 (2020 file) FCRP1231=FCRPY3 (2020 file) FCSZ1231= FCSZY3 (2020 file) FMRS1231= FMRSY3 (2020 file) INSC1231=INSCY3 (2020 file)
Annual	18, 18X, 18F, or 18C	Y1, Y1X, Y1F, or Y1C	Examples: TOTEXP18=TOTEXPY1 AGE18X=AGEY1X
	19, 19X, 19F, or 19C	Y2, Y2X, Y2F, or Y2C	TOTEXP19=TOTEXPY2 AGE19X=AGEY2X
	20, 20X, 20F, or 20C	Y3, Y3X, Y3F, or Y3C	TOTEXP20=TOTEXPY3 AGE20X=AGEY3X
Variables for health insurance prior to January 1, 2018 (data collected in Round 1 only)	No suffixes	No suffixes	All variables: PREVCOVR=PREVCOVR MORECOVR=MORECOVR
Annual	No suffixes[3]	Y1	Examples: KEYNESS=KEYNESY1 (2018 file) SAQELIG=SAQELIY1 (2018 file) EVRWRK=EVRWRKY1 (2018 file) EVRETIRE=EVRETIY1 (2018 file) AGELAST=AGELSTY1 (2018 file) DIABDX_M18=DIABDXY1_M18 (2018 file)
		Y2	KEYNESS=KEYNESY2 (2019 file) SAQELIG=SAQELIY2 (2019 file) EVRWRK=EVRWRKY2 (2019 file) EVRETIRE=EVRETIY2 (2019 file) AGELAST=AGELSTY2 (2019 file) DIABDX_M18=DIABDXY2_M18

[3] 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
			(2019 file)
		Y3	KEYNESS=KEYNESY3 (2020 file) SAQELIG=SAQELIY3 (2020 file) EVRWRK=EVRWRKY3 (2020 file) EVRETIRE=EVRETIY3 (2020 file) AGELAST=AGELSTY3 (2020 file) DIABDX_M18=DIABDXY3_M18 (2020 file)
Monthly	2-character month + 18 2-character month + 19 2-character month + 20	2-character month + Y1 2-character month + Y2 2-character month + Y3	Example: PRIJA18=PRIJAY1 (2018 file) PRIJA19=PRIJAY2 (2019 file) PRIJA20=PRIJAY2 (2020 file)
Round specific variables for health insurance and employment	31, 31X, or 31H in 2018 file	1, 1X, or 1H for 2018	Examples: EMPST31=EMPST1 (2018 file)
	42, 42X, or 42H in 2018 file	2, 2X, or 2H for 2018	EMPST42=EMPST2 (2018 file)
	53, 53X, or 53H in 2018 file	3, 3X, or 3H for 2018	EMPST53=EMPST3 (2018 file if YEARIND=2 or 6)
	31, 31X, or 31H in 2019 file	3, 3X, 3H for 2019	EMPST31= EMPST3 (2019 file if YEARIND=1, 3, 5, or 7)
	42, 42X, or 42H in 2019 file	4, 4X, 4H for 2019	EMPST42=EMPST4 (2019 file)
	53, 53X, or 53H in 2019 file	5, 5X, 5H for 2019	EMPST53=EMPST5 (2019 file if YEARIND=3,5)
	31, 31X, or 31H in 2020 file	5, 5X, 5H for 2020	EMPST31= EMPST5 (2020 file if YEARIND=1, 4, 6, or 7)[4]
	42, 42X, or 42H in 2020 file	6, 6X, 6H for 2020	EMPST42=EMPST6 (2020 file)
	53, 53X, or 53H in 2020 file	7, 7X, 7H for 2020	EMPST53=EMPST7 (2020 file)
All other round specific variables	31, 31X, or 31H in 2018 file	1, 1X, or 1H for 2018	Examples: RTHLTH31=RTHLTH1 (2018 file)
	42, 42X, or 42H in 2018 file	2, 2X, or 2H for 2018	RTHLTH42=RTHLTH2 (2018 file)
	53, 53X, or 53H in 2018 file	3, 3X, or 3H for 2018	RTHLTH53=RTHLTH3 (2018 file if YEARIND=2 or 6)
	31_M18 in 2018 file	1_M18 for 2018	JTPAIN31_M18=JTPAINY1_M18
	42_M18 in 2018 file	2_M18 for 2018	PROVTY42_M18=PROVTY2_M18
	31, 31X, or 31H in	3, 3X, 3H for 2019	RTHLTH31= RTHLTH3 (2019 file if

[4] Using responses in the Round 6 interview, these variables were constructed from status on the date of the Round 5 interview or between the Round 4 and Round 5 interview dates, not the end of the Round 5 reference period, which was typically 12/31/2019.

Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
	2019 file		YEARIND=1, 3, 5, or 7)
	42, 42X, or 42H in 2019 file	4, 4X, 4H for 2019	RTHLTH42=RTHLTH4 (2019 file)
	53, 53X, or 53H in 2019 file	5, 5X, 5H for 2019	RTHLTH53=RTHLTH5 (2019 file if YEARIND=1, 3, 5, or 7; otherwise -1)[5]
	31_M18 in 2019 file	3_M18 for 2019	JTPAIN31_M18=JTPAIN3_M18
	42_M18 in 2019 file	4_M18 for 2019	PROVTY42_M18=PROVTY4_M18
	42, 42X, or 42H in 2020 file	6, 6X, 6H for 2020	RTHLTH42=RTHLTH6 (2020 file)
	53, 53X, or 53H in 2020 file	7, 7X, 7H for 2020	RTHLTH53=RTHLTH7 (2020 file)
	42_M18 in 2020 file	6_M18 for 2020	PROVTY42_M18=PROVTY6_M18
	53_M18 in 2020 file	7_M18 for 2020	JTPAIN53_M18=JTPAIN7_M18
Diabetes preventive care	1753, 1853, and 1953 in 2018 file	Y0R3 for 2017 Y1R3 for 2018 Y2R3 for 2019	Example: DSEY1753=DSEYY0R3 (2018 file) DSEY1853=DSEYY1R3 (2018 file) DSEY1953=DSEYY2R3 (2018 file)
	1853, 1953, and 2053 in 2019 file	Y1R5 for 2018 Y2R5 for 2019 Y3R5 for 2020	DSEY1853=DSEYY1R5 (2019 file) DSEY1953=DSEYY2R5 (2019 file) DSEY2053=DSEYY3R5 (2019 file)
	1953, 2053, and 2153 in 2020 file	Y2R7 for 2019 Y3R7 for 2020 Y4R7 for 2021	DSEY1953=DSEYY2R7 (2020 file) DSEY2053=DSEYY3R7 (2020 file) DSEY2153=DSEYY4R7 (2020 file)
Job Change	3142 or 4253	12 for 2018 23 for 2018	All variables: CHGJ3142=CHGJ12 (2018 file) CHGJ4253=CHGJ23 (2018 file) YCHJ3142=YCHJ12 (2018 file) YCHJ4253=YCHJ23 (2018 file)
		34 for 2019 45 for 2019	CHGJ3142=CHGJ34 (2019 file) CHGJ4253=CHGJ45 (2019 file) YCHJ3142=YCHJ34 (2019 file) YCHJ4253=YCHJ45 (2019 file)
		56 for 2020 67 for 2020	CHGJ3142=CHGJ56 (2020 file) CHGJ4253=CHGJ56 (2020 file) YCHJ3142=YCHJ67 (2020 file) YCHJ4253=YCHJ67 (2020 file)
			Example:

[5] As with Panels 1 through 22, Round 5 of Panel 23 collected information up to the end of the calendar year, which was 2019 for Panel 23. Therefore, any sample members with 2020 data but not 2019 data (YEARIND=2, 4, or 6) have Round 5 variables set to -1.

Type of Variable	Full-Year Consolidated File Variable Name Suffix	Longitudinal File Variable Name Suffix	Specific cases or examples
Cancer	No suffixes[6]	Y1 for 2018 Y2 for 2019 Y3 for 2020	CALUNG=CALUNGY1 (2018 file) CALUNG=CALUNGY2 (2019 file) CALUNG=CALUNGY3 (2020 file)
Age of Diagnosis	No suffixes[6]	Y1 for 2018 Y2 for 2019 Y3 for 2020	Example: CHDAGED=CHDAGY1 (2018 file) CHOLAGED=CHOLAGY1(2018 file) CHDAGED=CHDAGY2 (2019 file) CHOLAGED=CHOLAGY2(2019 file) CHDAGED=CHDAGY3 (2020 file) CHOLAGED=CHOLAGY3(2020 file)

2.1.2 Constructed Variables for Selection of Group

The following eight variables were constructed and included on the file to facilitate the selection of appropriate cases for various analyses. Table 2 below contains descriptive statistics for these variables.

YEARIND 1=all three years, 2=in 2018 only, 3=in 2019 only, 4=in 2020 only, 5=in 2018 and 2019, 6=in 2018 and 2020, and 7=in 2019 and 2020
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=9,200)
YEARIND=1 (i.e., person in all three years)	8,743	95.0
ALL7RDS=1 (yes)	8,279	90.0
DIED=1 (yes)	318	3.5

[6] To maintain a previously implemented 8-character naming convention, some variable names had the last character or two dropped in the renaming process.

INST=1 (yes)	56	0.6
MILITARY=1 (yes)	33	0.4
ENTRSRVY=1 (yes)	428	4.7
LEFTUS=1 (yes)	31	0.3
OTHER=1 (yes)	76	0.8

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 23

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 8,279 cases where ALL7RDS=1 produces a weighted population estimate of 302.7 million. This represents an estimate of the number of persons in the civilian noninstitutionalized population for the entire three-year period from 2018-2020. 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 4,596 cases with SAQ data for all three rounds (i.e., SAQRDS246=1) is 221.0 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	4,604	32,241,241
SAQRDS246	1	Persons with all three rounds of SAQ data	4,596	221,049,486
SAQRDS24	0	Persons with less than three rounds of SAQ data	3,464	31,621,604
SAQRDS24	1	Persons with all three rounds of SAQ data	5,736	221,669,123
SAQRDS46	0	Persons with less than three rounds of SAQ data	4,367	18,959,646
SAQRDS46	1	Persons with all three rounds of SAQ data	4,833	234,331,081
Total	Total	All SAQ respondents	9,200	253,290,727

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 23 is the first panel to include three years of data, so this three-year file should not be combined with other panels until the three-year Panel 24 longitudinal file is available in late 2023. However, the two-year Panel 23 longitudinal file (HC-217) may be pooled with other two-year longitudinal data files. Please refer to HC-217 on the MEPS website for information about the two-year Panel 23 longitudinal data file and pooling it with other years.