

MEPS – HC OVERVIEW

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Who Uses MEPS?

□Academic Researchers

- □Policymakers (federal, state, local)
- **■Non-profit organizations**
- □ For profit companies
- **□**Media



MEPS OVERVIEW: Outline

□What is MEPS: Components **Purpose** Design and Sample □What MEPS collects Core and Supplemental Content **☐** Supplemental CAPI sections & Questionnaires □ Data Dissemination Data Files Website and Web Tools **Data Center**



MEPS Survey Components

■ MEPS-HC: Household Component

- Collects data from a sample of families and individuals in selected communities across the United States
- Annual Survey of about 15,000 households since 1996
- Provides national estimates of health care use, expenditures, insurance coverage, sources of payment, access to care and health care quality

■ MEPS-IC: Insurance Component

- Collects data from a sample of private and public sector employers on the health insurance plans they offer their employees.
- An independent survey of employers and unions not linked to the household survey



MEPS Survey Components

PS-MPC: Medical Provider Component
urvey of medical providers linked to respondents of ne HC
MEPS-MPC covers hospitals, physicians, home health care providers, and pharmacies identified by MEPS-HC respondents.
Purpose of MEPS-MPC is to supplement and/or replace information received from the MEPS-HC respondents.
The information from MEPS-MPC is incorporated into the MEPS-HC data files.
Data files with only this supplemental respondent information are not available for public use.



MEPS-Household Component Purpose & Uses

Provides data collected from individual households and their members, which is supplemented by data from their medical providers.
Provides nationally representative estimates of health care use, expenditures, sources of payment, and health insurance coverage for the U.S. civilian noninstitutionalized population.
Estimates can be produced for individuals, families, and selected population subgroups and socio-economic characteristics.
Used for policy-related and behavioral research on the determinants of health care use, spending, and insurance coverage
Used in microsimulation models to analyze alternative health care delivery proposals



MEPS-HC Survey Design

- □ Each year a new panel of sample households is selected.
- MEPS-HC sample is a subsample of households participating in the previous year's National Health Interview Survey (NHIS) conducted by NCHS.
- □ Sample is representative of the civilian non-institutionalized population of the USA.
- Data collected for two years of healthcare usage from each panel.

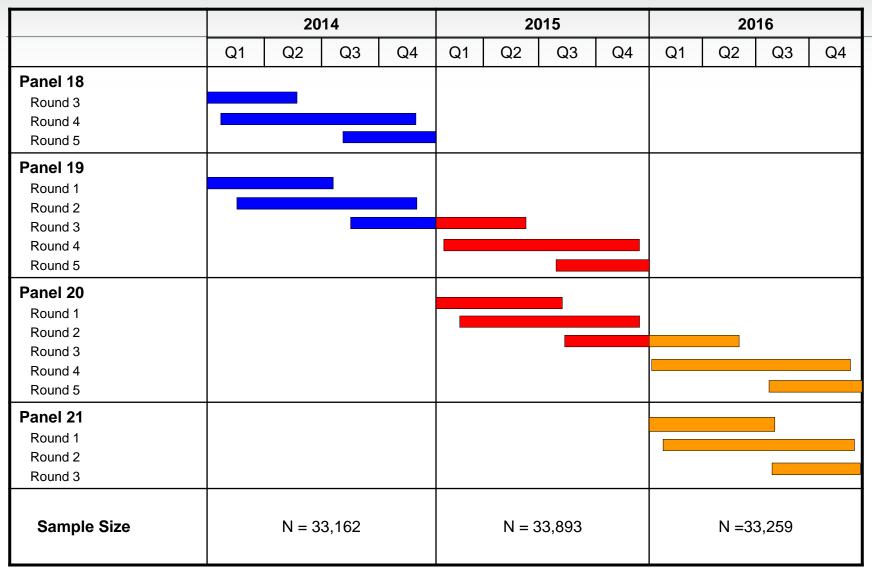


MEPS-HC Survey Interviews

- ☐ Five in-person interviews using CAPI technology.
- ☐ All data reported by a single household respondent.
- ☐ To collect two years of healthcare usage data, it can take up to two and half years.
- ☐ Interviews average 90 minutes with a range of one to four hours.



MEPS Panel Design: Data Reference Periods



N is equal to the number of people with a positive person weight on the file.



MEPS-HC SAMPLE SIZES

Year	Number of families	Number of persons
<u>2015</u>	13,800	33,893
<u>2014</u>	13,421	33,162
<u>2013</u>	13,936	35,068
<u>2012</u>	14,763	37,182
<u>2011</u>	13,449	33,622
<u>2010</u>	12,445	31,228
<u>2009</u>	13,875	34,920
<u>2008</u>	12,316	31,262
<u>2007</u>	11,615	29,370
<u>2006</u>	12,811	32,577
<u>2005</u>	12,810	32,320
<u>2004</u>	13,018	32,737
<u>2003</u>	12,860	32,681
<u>2002</u>	14,828	37,418
<u>2001</u>	12,852	32,122
<u>2000</u>	9,515	23,839
<u>1999</u>	9,345	23,565
<u>1998</u>	9,023	22,953
<u>1997</u>	13,087	32,636



MEPS-HC Core Content

- □ Collected in every round (5x)
 - Demographics
 - □ Charges and Payments
 - Medical Conditions
 - □ Employment
 - ☐ Health Status
 - ☐ Health Insurance
 - Utilization



Core Interview Content

Der	mographics
	Age
	Sex
	Race and Ethnicity
	Language and English Proficiency
	Marital Status
	Foreign Born Status
	Student Status and Educational Attainment
	Military Service and Honorable Discharge
	Income and Poverty Status



Core Interview Content

- Charge and Payments (CP)
 - □ Tracks total charges and sources of payment for medical events reported in earlier sections.
- Conditions (CN)
 - ☐ Collects additional information about physical and mental health conditions.
- Employment (EM)
 - □ Covers questions about each person's employment or self-employment status.



Core Interview Content

- Health Insurance (HX)
 - Collects information about health insurance including private and public health insurance programs.
- Health Status (HE)
 - Assesses the physical and mental health status for both children and adults. For children it obtains additional information on childhood immunizations, limitations to school attendance etc.
- Utilization
 - □ Collects data in each round on use and expenditures for office- and hospital-based care, home health care, dental services, vision aids, and prescribed medicines. Data were collected for each sample person at the event level (e.g., doctor visit, hospital stay).



Supplemental Sections

Sections asked in rounds 2 and 4:

- □ Access to care
- □ Children's Health

Sections asked in rounds 3 and 5:

- □ Income
- □ Preventive Care
- □ Assets (round 5 only)



Round 2 and 4 Sections

- Access to Care (AC)
 - □ Identifies whether each household member has a medical provider who provides the usual source of care (USC).
- Child Preventive Health (CS)
 - □ Collects information on general health status, special health care needs, potential behavioral problems, accessibility to health care, preventative care, height, and weight of any child in the family.



Round 3 and 5 Sections

- □ Income (IN)
 - Collects information about income and tax returns.
- Preventive Care (AP)
 - Collects information on any preventive care received (dental and physical check-ups, flu shots, and other preventative health exams).
- Assets (AS)
 - □ To supplement financial data collected in the Income section, the Assets section asks about household members' real estate, businesses, vehicles, investments, other assets, and debts.



- □ Adult Self-Administered Questionnaire (SAQ)
 - ☐ Given once a year (in rounds 2 and 4) to each adult 18 years old and older; total of 46 questions focus on selfreported opinions on one's physical and mental health, receiving care from specialists; communication and quality of health care received from providers.



- □ Diabetes Care Survey (DCS)
 - ☐ Given once a year (in rounds 3 and 5) to each person identified as having diabetes; total 14 questions related to diabetes related testing and managing diabetes.



- □ Cancer Self- Administered Questionnaire
 - ☐ The 2011 CSAQ was developed and administered to the respondents identified as having cancer with questions about the burden of cancer, long lasting effects of the disease, financial impacts, and employment outcomes for cancer survivors and their families. 93 questions
 - ☐ The CSAQ was updated and administered for data year 2016. 62 questions
 - ☐ The same CSAQ was administered in 2017



- □ The 2014 Preventive Care Self-Administered Questionnaire
 - □ First time fielded during Panel 18 Round 5 of the 2014 MEPS survey. The questionnaires were administered in early 2015.
 - □ Collects a variety of person-level preventive health care data for adults.
 - ☐ There are separate versions of the survey for males (30 questions) and females (35 questions).
 - Questionnaires and data files are on the MEPS website



The	2015 Medical Organizations survey
	Collects information on office-based usual source of care (USC) practice characteristics for MEPS sample persons who saw their office-based USC during the year
	Funding provided by the Robert Wood Johnson Foundation
	Support studies of association between practice characteristics and consumer access, service use, expenditures and quality of care.
	Questionnaire located under MPC questionnaires
	Data file is on the MEPS website



MEPS- HC Caveats and Limitations

- Sample size limitations preclude some analyses
- Typically, one respondent provides data for the entire household
- Household respondents may not be able to report accurately certain types of information
 - □ type of health plan
 - detailed event information
 - diagnoses



MEPS-HC Data Files for Public Use (PUF's): Levels

Person Level - detailed person information
□ Each record represents a person, has all of person's demographics, health, income, expenses, etc.
Event Level - detailed event information
□ Each record represents an event, such as a hospital visit, ha all details on conditions, expenditures, etc. for that visit.
☐ Condition Level - detailed condition information
□ Each record represents a condition, all details on that condition are on that record.
Job Level - detailed job information
☐ Each record represents a job and all details associated with it.



MEPS-HC Data Files for Public Use (PUF's): Types

- ☐ Full-year Files Contain expenditure and utilization data for the calendar year from several rounds of data collection.
- Consolidated Data File
- Event File
- Medical Conditions File
- Jobs File
- Person Round Plan Public Use File
- □ Point-in-time Files Data for the beginning of the year providing early glimpses of what full-year estimates will likely be.
- MEPS/NHIS Link Files Cross-walk files that allow merging of Household Component files and NHIS files.



MEPS-HC Data Files for Public Use (PUF's): supporting Documents

ems	
ems	
ems	
ems	
SPSS Programming Statements	



MEPS Web Site

UF	RL: https://meps.ahrq.gov/mepsweb/
	Aterials on the MEPS Web site: Micro Data Files - Public Use Files (PUF's) Questionnaires Core and Supplemental
	Redesigned HC Summary data tables Platform: Medical utilization and expenditures Demographic and socioeconomic characteristics Health insurance coverage Access to care and satisfaction with care Prescribed medicine purchases
	Publications ☐ Statistical Briefs ☐ Methodology Reports ☐ Research Findings



MEPS Web Site

Data Center Discussion Forum □ Frequently Asked Questions (FAQs) ■ MEPSnet Query Tools ■ MEPSnet/Household component ■ MEPSnet/Insurance component ■ MEPS Topics □ Participants' Corner **Mailing List and List Serve** What's New ■ Workshops and Events – workshops, webinars and seminars



AHRQ Data Center (ADC)

☐ Pur	pose
☐ P	rovides researchers access to non-public use MEPS ata (except directly identifiable information)
☐ Loc	ation
□ S	ecure room
☐ Acc	ess
	erminal connected to secure LAN
□ N	o internet connectivity
☐ Stat	tistical software
□ S	AS, STATA, SUDAAN, R
☐ Lim	ited staff support by experts on:
	Data
	confidentiality issues
	software



Examples of Confidential Data Projects

Fully Specified ICD 0 Codes
Fully Specified ICD-9 Codes
These codes allow medical conditions to be identified with greater specificity.
Fully Specified Industry and Occupation Codes
These codes allow a worker's industry and occupation to be identified with greater specificity.
State and County FIPS Codes:
These codes can be used to merge data from the Area Resource File, or any data at the State and/or County level, onto the MEPS data.
Census Tract and Block-Group Codes
These codes can be used to merge data from the U.S. Census, or any data at the tract or block-group level, onto the MEPS data.
Non-Public Use Data Elements
These are data elements from our questionnaires that are not directly identifiable data, but have yet to be edited or released, i.e., asset information and imputed NDC codes.
Federal and State Marginal Tax Rates
Tax amounts and marginal tax rates have been computed for Federal, State and FICA taxes.



AHRQ Data Center: Procedures

- Submit proposal to Data Center coordinator
- □ Review within 2 weeks for feasibility, and data availability
- ☐ Institutional Review Board (IRB) review required from users' institute
- □ Sign the Data Center agreement
- Run analysis on or off-site depending on the project



AHRQ Data Center: Fees

- ☐ User fee of \$300 for approved projects to cover technical assistance and simple file construction,
- □ User fee waived for full-time graduate students working on dissertations or other degree requirements, and Federal Government agencies
- □ Fee is also waived if you use any of the Census Bureau's Remote Data Centers (RDC); user is responsible for any additional fees required by the Census Bureau



AHRQ Data Center: Guidelines

- Researcher may bring data in, but not out Researcher has access only to data needed for approved project All tabular data is reviewed for confidentiality before release from **Center - only approved tables can leave the Center** Center will store data files, foreign merge files, and all outputs needed for replication Limited remote access
- MEPS data can be accessed in many data centers across the country including Census Bureau and many universities.



MEPS-HC References

Public Use File documentation
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Medical Care, July 2003: 41(7) Supplement: III-5-III-12. CAHPS:
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