

MEPS – HC Medical Conditions Data

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MEPS-HC CAPI Medical Condition Data Collection



Priority Conditions

15 specific condition questions

Open-ended reporting

- Medical Events
- Condition Enumeration
- Disability Days

Priority Conditions



Ever told by health professional (18+)

- Hypertension/High Blood Pressure (HIBPDX)
- Coronary Heart Disease (CHDDX)
- Angina (ANGIDX)
- Heart Attack/Myocardial Infarction (MIDX)
- Other Heart Disease (OHRTDX)
- Stroke/Transient Ischemic Attack (STRKDX)
- Emphysema (EMPHDX)
- High cholesterol (CHOLDX)
- Cancer/Malignancy (CANCERDX)
- Diabetes (DIABDX)
- Arthritis (ARTHDX)
- Asthma (ASTHDX)- All ages
- Attention Deficit Hyperactivity Disorder (ADHDADDX) ages 5-17

Priority Conditions



During past 12 months, have you had

- Chronic Bronchitis
 - CBRON31, CBRON53
- Joint pain/aching/stiffness/swelling
 - JTPAIN31, JTPAIN53

Open-Ended Reporting of Conditions



Medical Events

 Main source of condition data (100% in 2018 on)

Condition Enumeration

 1996-2017 (discontinued in P21R5, P22R3)

Disability Days

1996-2012 (discontinued in 2013)

Open-Ended Reporting Questions



Condtion Enumeration

- "Between (START DATE) and (END DATE), did (PERSON) have any physical or mental health problems, accidents, or injuries?"
- "What did (PERSON) have?"

Medical Events

Non-prescription events

"What conditions were discovered or led person to make this visit?"

Medical Events

Prescription events

"What health problem is medicine prescribed for?"

Medical Event Condition Questions



Question: What conditions were discovered or led person to make this visit?

- Hospital Inpatient
- Hospital Outpatient
- Emergency Room
- Office Based
- Home Health

Question: What health problem is medicine prescribed for?

Prescribed Medicine purchases

Condition Coding and Editing

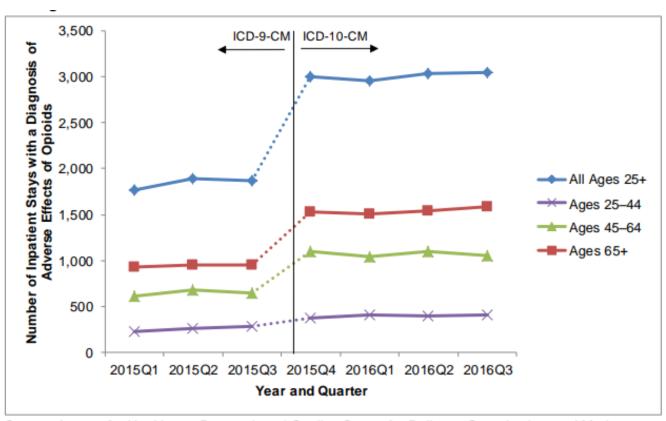


Verbatim text recorded and coded to fully specified ICD cods

- ICD-9: 1996-2015 (3-digit codes on public files)
 - Collapsed to Clinical Classification Codes (aggregation of ICD-9 codes into broad clinically meaningful categories)
- ICD-10: 2016 on (3-digit codes on public files)
 - CCSR codes to be introduced on the 2018 conditions file

Showing Trends with ICD-10 Transition



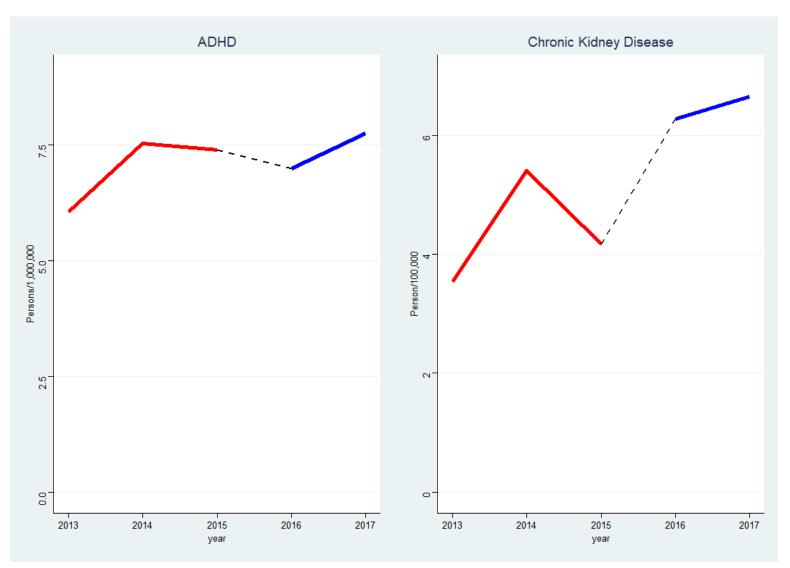


Source: Agency for Healthcare Research and Quality, Center for Delivery, Organization, and Markets, Healthcare Cost and Utilization Project, State Inpatient Databases for 2015 and quarterly inpatient data for 2016 from three States (Colorado, Kentucky, and Minnesota).

From: https://www.hcup-us.ahrq.gov/datainnovations/ICD-10CaseStudyonOpioid-RelatedIPStays042417.pdf

Showing Trends with ICD-10 Transition





Medical Conditions and Conditions Link Files



https://meps.ahrq.gov/mepsweb/data_stats/download_data_files.jsp

:: What's New	Household Component Full-Year files Household Component Full-Year files
:: Mailing List	Expenditure and utilization data for the calendar year from several rounds of data
	collection.
:: Discussion Forum	Full-Year Consolidated Data files
:: Participants' Corner	Full-Year Population Characteristics files
	■ Medical Conditions files Condition Files
	Risk Adjustment Scores files
	Employment Variables file
	☐ <u>Jobs files</u>
	Person Round Plan files
	Longitudinal Data files
	Supplemental Variables files (1996-2000)
	Health Insurance Plan Abstraction file (1996)
	Long Term Care file (1998)
	☐ Household Component Event files ③
	Data for the calendar year on unique household-reported medical events.
	Prescribed Medicines files
	Dental Visits files
	Other Medical Expenses files
	Hospital Inpatient Stays files
	Emergency Room Visits files
	Outpatient Visits files
	Office-Based Medical Provider Visits files
	☐ Home Health files
	Appendix to MEPS Event files Condition Link Files

Medical Conditions and Conditions Link Files



Conditions File

- Observations of unique person/condition pairs
- ICD-9 (1996-2015) and ICD-10 (2016-present)
- CCCs (1996-2015) and CCSRs (starting in 2018)
- Does NOT include priority conditions
- Variables that indicate the number and type of event a condition links to

Conditions Link File

- Condition ID (CONDIX) and Event ID (EVNTIDX) for linking conditions with events
- Event Type (EVNTYPE)

Linking Conditions to Events



Conditions File

Event Type and Counts

DUPERSID	CONDIDX	ICD10CDX	HHNUM	IPNUM	OPNUM	OBNUM	ERNUM	RXNUM
10001101	100011010021	J00	0	0	0	0	0	1
10001101	100011010031	M76	0	0	0	1	0	0
10001101	100011010041	H52	0	0	0	6	0	0

Link File





DUPERSID	CONDIDX	EVNTIDX	EVENTYPE
10001101	100011010021	100011010211	8
10001101	100011010031	100011010351	1
10001101	100011010041	100011010291	1
10001101	100011010041	100011010301	1
10001101	100011010041	100011010311	1
10001101	100011010041	100011010321	1
10001101	100011010041	100011010331	1
10001101	100011010041	100011010341	1

DUPERSID	EVNTIDX
10001101	100011010351
10001101	100011010291
10001101	100011010301
10001101	100011010311
10001101	100011010321
10001101	100011010331
10001101	100011010341

Medical Conditions Data: Caveats and Limitations



Potential Under-reporting

- Respondent not aware or asked
- One respondent per household
- Sensitive conditions underreported in surveys
- Not salient or bothersome
- No medical care received

Some recorded text strings are not easily classified into ICD condition codes

Caveats and National Estimates of Condition Prevalence



Cannot use MEPS to produce overall disease prevalence estimates

See caveats on previous slide

MEPS can be used to produce "treated prevalence"

 From 2018 on, conditions (except priority conditions) are only linked to events

Condition Data References



- □ Public Use File documentation
 □ Report titled "Understanding and Analyzing

 MEPS Household Component Medical

 Condition Data"
- http://meps.ahrq.gov/mepsweb/survey_comp/MEPS
 _condition_data.pdf

Thank you!



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