

# MEPS – HC Utilization and Expenditures

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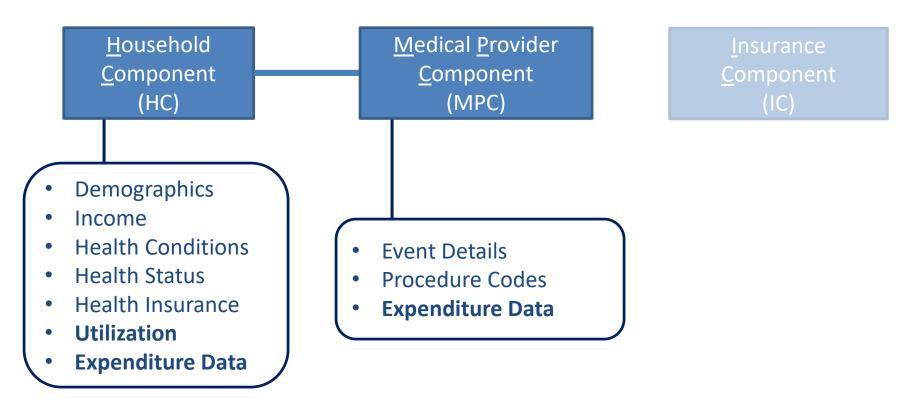
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## **MEPS Components**

## Medical Expenditure Panel Survey (MEPS)





### Health care utilization

MEPS household respondents asked to report all health care use for family members during reference period

Utilization is called an 'event' in MEPS

#### **Event type categories:**

- Hospital inpatient stays (IP)
- Office-based medical provider visits (OB)
- Outpatient department visits (OP)
- Emergency room visits (ER)
- Dental visits (DN)
- Prescription medicine purchases (RX)
- Home health care (HH)
- Other medical expenses (OM) [e.g. glasses, hearing aids]



## Health care utilization

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<ul> <li>Office-based medical provider visits (OI</li> <li>Outpatient department visits (OP)</li> <li>Emergency room visits (ER)</li></ul>	3) .]. ' Visit '
<ul> <li>Prescription medicine purchases (RX).</li> <li>Home health care (HH)</li> <li>Other medical expenses (OM)</li> <li>[e.g. glasses, hearing aids]</li> </ul>	month of care



## **Event files**

#### https://meps.ahrq.gov/mepsweb/data\_stats/download\_data\_files.jsp

:: What's New	Household Component Full-Year files ①					
:: Mailing List	Expenditure and utilization data for the calendar y collection.	ear from several rounds of data				
:: Discussion Forum	☐ <u>Full-Year Consolidated Data files</u>					
:: Participants' Corner	Full-Year Population Characteristics files					
	Medical Conditions files					
	Risk Adjustment Scores files					
	Employment Variables file					
	☐ <u>Jobs files</u>					
	Person Round Plan files					
	Longitudinal Data files					
	Supplemental Variables files (1996-2000)	1)				
	Health Insurance Plan Abstraction file (1	996)				
	□ Long Term Care file (1998)					
	Household Component Event files					
	Data for the calendar year on unique household-r	eported medical events.				
	Prescribed Medicines files					
	Dental Visits files					
	Other Medical Expenses files					
	Hospital Inpatient Stays files	Event Files				
	Emergency Room Visits files					
	Outpatient Visits files					
	Office-Based Medical Provider Visits files					
	☐ Home Health files					
	Appendix to MEPS Event files					



#### **Event files**

#### **OB Event File, 2013**

Person	Person / Event IDs Da		ate	Paymen	t/Charge	Weight
dupersid	evntidx	obdateyr	obdatemm	obxp13x	obtc13x	perwt13f
20004101	200041010011	2013	8	300	300	6594.802
20004101	200041010021	2013	8	127.6	154	6594.802
20015102	200151020051	2013	2	124.23	208.12	2140.442

- + Provider characteristics
- + Services/procedures (e.g. surgery, lab tests)
- + Health conditions
- + Detailed expenditure variables

Darcan



## Health care expenditures

Collected at the event level

Represent payments to providers of the health care

Payments are reported by source

e.g. out-of-pocket, private insurance

Total expenditure is the sum of payments across all sources of payment



## Sources of payment

#### **Out of Pocket**

▶ SF – self or family

#### **Public**

- MR Medicare
- MD Medicaid
- ▶ VA VA/CHAMPVA

#### **Private insurance**

- ▶ PV private Insurance
- ► TR TRICARE

#### Other

- ▶ OF other federal government
- ► SL state or local government
- ▶ WC worker's comp
- OT other insurance
- ▶ OR other private
- OU other public

Total Expenditures (XP) = Sum of payments from all 12 sources



#### OB, DN, HH, and OM

12 expenditure by source of payment variables

#### A total <u>expenditure</u> variable

sum of 12 source of payment variables

#### A total charge variable

provider's charge before adjustment or discount



#### **OB Event File, 2013**

Event ID	OOP (SF)	Medicare (MR)			Total Pmt. (XP)	Total Charge (TC)
evntidx	obsf13x	obmr13x	•••	obpv13x	obxp13x	obtc13x
200041010011	300	0	•••	0	300	300
200041010021	50	0	•••	77.6	127.6	154
200151020051	25	0	•••	99.23	124.23	208.12



## Hospital: IP, OP and ER

#### **Facility Expenditure Variables**

- 12 <u>expenditure</u> by source of payment variables
- A total facility <u>expenditure</u> variable
- ► A total facility *charge* variable

## Separately Billing Doctor (SBD) Expenditure Variables

- ▶ 12 SBD <u>expenditure</u> by source of payment variables
- ► A total SBD <u>expenditure</u> variable
- ► A total SBD *charge* variable

Total <u>expenditures</u> for the event: facility + SBD expenditures

Total <u>charges</u> for the event: facility + SBD charges



#### ER Event File, 2013

Event ID	Fa	Facility payments (f) T			Total facility pmt.	Facility charge
evntidx	erfsf13x	erfmr13x	•••	erfpv13x erfxp13x		erftc13x
200121010011	0	94.46	•••	0	94.46	353
200161020101	208.54	0	•••	334.16	542.7	1464

SBD payments (d)				Total SBD pmt.	SBD charge
erdsf13x	dsf13x erdmr13x erdpv13x		erdxp13x	erdtc13x	
0	176.36	•••	0	176.36	700
0	0	•••	304.71	304.71	388

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iotal payment (facility + SBD)	iotal charge (facility + SBD)
erxp13x	ertc13x
270.82	1053

847.41



## RX ('PMED')

12 expenditure by source of payment variables

#### A total expenditure variable

sum of 12 source of payment variables

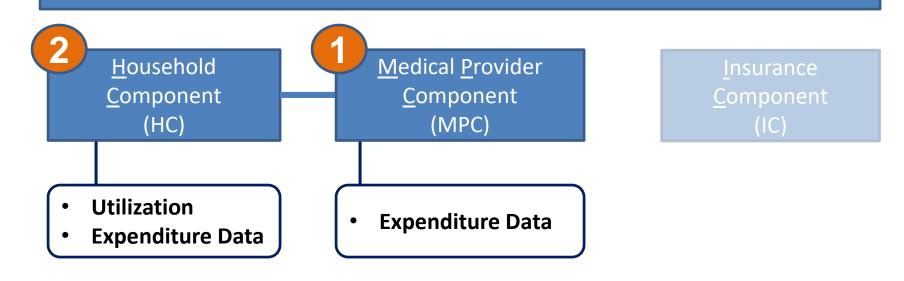
No total charge variable

Most identified



## Sources of expenditure data

## Medical Expenditure Panel Survey (MEPS)



3 Imputation



## Sources of expenditure data by event type

Event type	НС	MPC
Office-based: physician	✓	<b>√</b>
Office-based: non-physician	✓	
Inpatient	✓	<b>✓</b>
Outpatient	✓	✓
ER	✓	✓
Dental	✓	
RX		✓
Home health: agency		✓
Home health: paid independent	✓	
Other medical	<b>√</b>	



## Sources of expenditure data

dupersid	evntidx	impflag	obxp13x	obtc13x
20004101	200041010011	1	300	300
20004101	200041010021	3	127.6	154
20015102	200151020051	4	124.23	208.12

#### impflag\*

- **O** Not eligible for imputation
- 1 Complete HC data
- 2 Complete MPC data
- 3 Fully imputed
- 4 Partially imputed
- **5 Capitation imputation**

<sup>\*</sup> Codes are different for RX file



## **Medical Provider Component**

#### The MPC is NOT...

...designed to yield national estimates

...available to the public

#### The MPC is...

...a supplement to household-reported expenditure data

...used for internal methodological studies



## **Special Case 1: Flat fees**

#### Flat fees

#### Fixed dollar amount for a group of health care services

e.g. orthodontic, prenatal care

#### Flat Fee ID: FFEEIDX

#### Flat fee structure (FFOBTYPE)

- Stem initial medical visit expenditures
- Leaf subsequent medical visits zero expenditures



## **Special Case 2: Zero dollar-events**

#### **Zero-dollar events**

Flat fee - leaf event

Follow-up visit with no extra charge

Free care

**Bad debt** 



## **Special Case 3: Capitation**

## **Capitation**

Imputed to fee-for-service equivalence IMPFLAG = 5



## **Special Case 4: Missing expenses**

## **Expense variables = '-1'**

#### Missing data codes

- -1 Inapplicable
- -7 Refused
- -8 Don't know
- -9 Not ascertained

OB, OP – phone calls (SEETLKPV = 2) HH – informal care (MPCELIG = 3)



## Annual person-level file

#### **Event level files**

- Separated by type of service
- Unique record for each reported event
  - Some persons have no events
  - Some persons have multiple events

## Person-level file (full year consolidated)

- Variables derived from event level
- One record for each person in MEPS
- No detail on expenditures or characteristics of individual events
- Summary of all events and expenditures
  - See <u>Appendix 1</u> of documentation for naming conventions



## Annual person-level file

#### **OB Event File, 2013**

dupersid	evntidx	obdateyr	obdatemm	obxp13x	obtc13x	perwt13f
20004101	200041010011	2013	8	300	300	6594.802
20004101	200041010021	2013	8	127.6	154	6594.802
20015102	200151020051	2013	2	124.23	208.12	2140.442

#### **Full Year Consolidated File, 2013**

dupersid	obtotv13	obvexp13	obvtch13	perwt13f
20004101	2	428	454	6594.802
20004102	0	0	0	7144.183
20004103	0	0	0	5616.279
20015102	1	124	208	2140.442



#### https://meps.ahrq.gov/mepsweb/data\_stats/download\_data\_files.jsp

