

MEPS – HC PRESCRIBED MEDICINES FILE

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PMED File Structure



- Each record represents a unique prescribed medicine acquisition (fill or refill) and the characteristics of the drug
- File includes medicines prescribed, obtained, and reported
- Incorporates data collected in the household and pharmacy components

Household Component (HC)



- Medicine name
- Number of times acquired in the round
- Associated condition(s)
- Date first used
- Pharmacy information

Pharmacy Component (PC)



- Need written permission from household members
- Telephone and mail contact with Pharmacy
- Ask for "patient profile" to include:
 - Drug name
 - National drug code (NDC)
 - Drug characteristics
 - Date filled
 - Payers and amounts of payment
- Sample of about 8,000 pharmacies per year

Editing HC and PC data



HC: number of fills

- PC
 - missing NDC
 - missing third-party payer (based on HC)
 - missing or unrealistically low or high prices
 - missing payments

Combining HC and PC



- No common identifier is shared by HC and PC
- A code (GPI) is assigned to each HC and PC drug to facilitate matching
 - Machine (70%) and human coders (30%) for HC
 - NDC (95%) and human coders (5%) for PC
- Post-match editing
- Utilization based on household data
- Payments based almost entirely on pharmacy data

Drug Characteristics (PC)



Characteristics included for each acquisition:

- Medication name
- National drug code (NDC)
- Quantity dispensed (10, 30, 50, ...)
- Form (capsule, tablet, liquid, cream, ...)
- Strength (10, 200, ...)
- Unit of measurement for form (ounces, ...)
- Unit of measurement for strength (mg, ml, ...)

Other Variables



Additional information included for each acquisition

- Round
- When the drug was first taken
- Type(s) of pharmacy
- Condition(s) associated with the drug (by linking with the medical conditions file)
- Days supplied (since 2010)
- Sources and amounts of payment
- Total payment

Record Identifier Variables



 RXRECIDX – Uniquely identifies each record on the file

 LINKIDX – Drug-round-level ID that can be used to link a PM event to other MEPS event files

DRUGIDX/RXNDC – Drug-level IDs

Multum Lexicon Variables



- Each record has 3 types of Multum Lexicon variables
 - PREGCAT (pregnancy category)
 - TCn (therapeutic class: 1, 2, and 3)
 - TCnSn (therapeutic sub-class)
 - TCnSn_n (therapeutic sub-sub-class)
 - RXDRGNAM (beginning in 2013)
 - For 2012 and earlier, RXDRGNAM and corrected TC and PREGCAT variables can be found as an addendum file at the MEPS website (MEPS HC-068: Multum Lexicon Addendum Files to MEPS Prescribed Medicines Files 1996-2013)

PMED File Peculiarities



- Meaning of imputation flags is different
 - RXFLG
 - PCIMPFLG
 - IMPFLAG
 - INPCFLG

- No total charge variable
 - ► NO rebate or discount information
- No date of service

Trend Analysis



PMED file released yearly beginning in 1996

- How will you interpret year-to-year changes?
 - Policy change
 - Other real change
 - Change in MEPS PMED data editing methodology (especially 2007-2008 and 2017)
 - MEPS Instrument design change (since Spring of 2018)

Trend Analysis Caveats



- Be cautious with the type of comparisons you make before and after 2007 / 2008 and before and after 2017/2018.
- Consider techniques to smooth or stabilize trends, such as pooling time periods
- Read the documentation for each year of data you are using
- Read Methodology Report #29

Statistical Reports & Applied Research



AHRQ regularly produces and posts findings from the PMED data

Statistical Briefs

Ding Y, Miller GE. Total Expenses, Total Utilization, and Sources of Payment for Outpatient Prescription Opioids in the U.S. Adult Civilian Noninstitutionalized Population, 2017. Statistical Brief #529. April 2020.

Carroll WA, Miller GE, Hill SC. Out-of-Pocket Spending for Retail Prescribed Drugs by Age and Type of Prescription Drug Coverage, 2009 to 2018. Statistical Brief #532. December 2020.

Methodology Reports

Hill SC, Roemer M, Stagnitti MN. Outpatient Prescription Drugs: Data Collection and Editing in the 2011 Medical Expenditure Panel Survey. Methodology Report #29. March 2014.

Working Papers

Zodet M., Hill S.C., Zuvekas S., Evaluating an Alternative Data Source for Editing MEPS Drug Prices, Working Paper No. 12004, July 2012.

Thank you!



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