



STATISTICAL BRIEF #469

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Expenditures for the Top Five Therapeutic Classes of Outpatient Prescription Drugs, Medicare Beneficiaries, Age 65 and Older, U.S. Civilian Noninstitutionalized Population, 2012

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Introduction

This Statistical Brief provides descriptive statistics on expenditures for the top five most costly therapeutic classes of outpatient prescription drugs, ranked by total expenses in 2012 for Medicare beneficiaries age 65 and older in the U.S. civilian noninstitutionalized population. Prescription drug therapeutic classes are defined according to the Multum/Lexicon therapeutic classification system (see "Definitions"). In 2012, 17 broad therapeutic classifications were identified.

The estimates presented are derived from the Household and Pharmacy Components of the 2012 Medical Expenditure Panel Survey (MEPS). Expenditures include payments from all sources (e.g., out of pocket, private, and public insurance sources) for outpatient prescription drug purchases during 2012. Insulin and diabetic supplies and equipment are also included in MEPS prescribed medicines estimates. Over-the-counter medicines are excluded from these estimates as are prescription medicines administered in an inpatient setting or in a clinic or physician's office. All differences discussed in the text are statistically significant at the 0.05 level or better.

Findings

Ranked by total expense, the top five most costly therapeutic classes of prescribed drugs purchased by Medicare beneficiaries age 65 and older in 2012 were metabolic agents, cardiovascular agents, central nervous system agents, respiratory agents, and gastrointestinal agents. These classes together totaled \$61.4 billion and accounted for 68.5 percent of this population's \$89.6 billion total prescription drug expenses (figure 1).

Metabolic agents had the highest total expenses (\$23.0 billion) among all therapeutic classes for Medicare beneficiaries age 65 and older (figure 2). This was almost four times the total for gastrointestinal agents (\$6.0 billion), the fifth most costly therapeutic class. Total expenditures on cardiovascular agents were \$13.7 billion and for central nervous system agents, \$9.7 billion.

Metabolic agents accounted for 25.7 percent of all medical expenses for elderly Medicare beneficiaries (figure 3).

Among Medicare beneficiaries age 65 and older, more than two-thirds (69.6 percent) purchased cardiovascular agents (figure 4). Metabolic agents were purchased by more than half (57.0 percent) of the Medicare beneficiaries while less than half (43.6 percent) of Medicare beneficiaries purchased central nervous system agents. Smaller proportions of Medicare beneficiaries purchased gastrointestinal agents (24.8 percent) and respiratory agents (14.6 percent).

In terms of average expense per prescription, respiratory agents had the highest average (\$182) followed by metabolic agents (\$101) and gastrointestinal agents (\$94). Among the top five therapeutic classes, cardiovascular agents had the lowest average expense per prescription (\$38) (figure 5).

Highlights

- In 2012, the top five most costly therapeutic classes of prescription drugs ranked by total expense among Medicare beneficiaries age 65 and older were metabolic agents, cardiovascular agents, central nervous system agents, respiratory agents, and gastrointestinal agents.
- Among the Medicare population age 65 and older in 2012, expenditures for the top five therapeutic classes totaled \$61.4 billion and represented more than two-thirds (68.5 percent) of annual expenditures for prescription drugs.
- Expenses for metabolic agents accounted for nearly one-quarter of total prescription drug expenses for the Medicare population age 65 and older in 2012.
- More than two-thirds of the Medicare population age 65 and older purchased a cardiovascular agent in 2012.
- In 2012, among the top five therapeutic classes of prescription drugs, respiratory agents had the highest average expense per prescription with more than four times the average expense of cardiovascular agents.

Data Source

The estimates shown in this Statistical Brief are based on data from the MEPS-HC 2012 Full Year Consolidated Data File and MEPS-HC 2012 Prescribed Medicines File.

Definitions

Therapeutic classifications

Therapeutic class and subclass were assigned to MEPS prescribed medicines using Multum Lexicon variables from Cerner Multum, Inc. MEPS prescribed medicines were linked to the Multum Lexicon database to obtain therapeutic class and subclass variables.

The therapeutic class of metabolic agents includes the subclasses of antihyperlipidemic agents and antidiabetic agents. The therapeutic class of cardiovascular agents includes calcium channel blockers and diuretics; central nervous system agents include analgesics, anticonvulsants, and antiparkinson agents. The therapeutic class of gastrointestinal agents includes the H2-receptor antagonists, antacids, antidiarrheals, and proton pump inhibitors; and the therapeutic class of respiratory agents includes decongestants, antihistamines, respiratory inhalants, and antiasthmatic products.

Cerner Multum occasionally makes changes to the Multum Lexicon therapeutic classification system. For example, antihyperlipidemic agents was its own therapeutic class in the 2003 and 2004 data, but was reclassified as a subclass of the new therapeutic class metabolic agents in 2005.

About MEPS-HC

MEPS-HC is a nationally representative longitudinal survey that collects detailed information on health care utilization and expenditures, health insurance, and health status, as well as a wide variety of social, demographic, and economic characteristics for the civilian noninstitutionalized population. It is cosponsored by the Agency for Healthcare Research and Quality and the National Center for Health Statistics.

For more information about MEPS, call the MEPS information coordinator at AHRQ (301-427-1656) or visit the MEPS Web site at http://www.meps.ahrq.gov/.

References

For a detailed description of the MEPS-HC survey design, sample design, and methods used to minimize sources of nonsampling error, see the following publications:

Cohen, J. Design and Methods of the Medical Expenditure Panel Survey Household Component. MEPS Methodology Report No. 1. AHCPR Pub. No. 97-0026. Rockville, MD: Agency for Health Care Policy and Research, 1997. http://www.meps.ahrq.gov/mepsweb/data_files/publications/mr1/mr1.pdf

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Ezzati-Rice, T.M., Rohde, F., Greenblatt, J. Sample Design of the Medical Expenditure Panel Survey Household Component, 1998–2007. Methodology Report No. 22. March 2008. Agency for Healthcare Research and Quality, Rockville, MD. http://www.meps.ahrq.gov/mepsweb/data_files/publications/mr22/mr22.pdf

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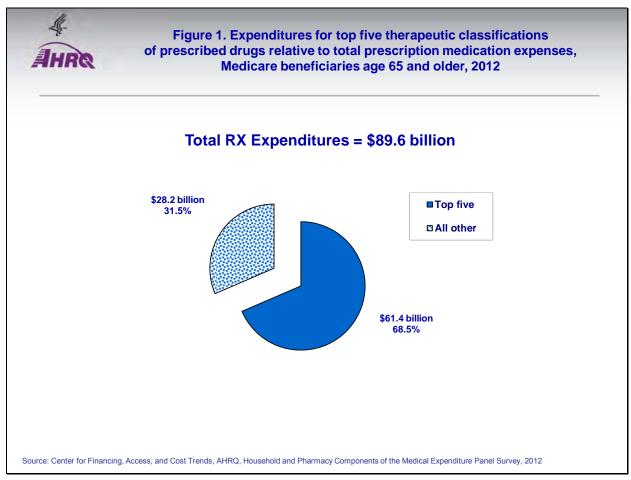
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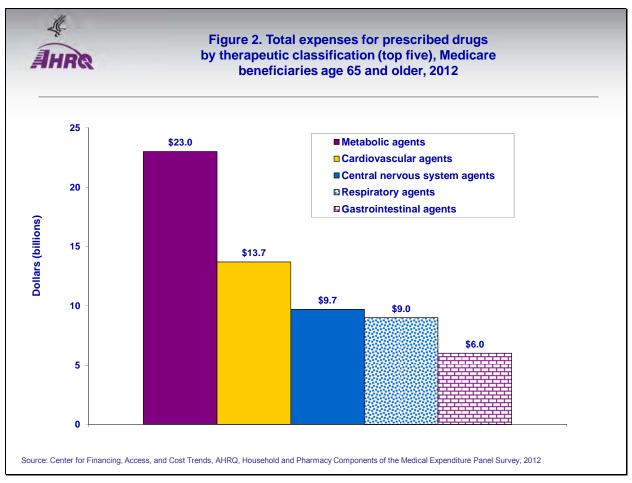
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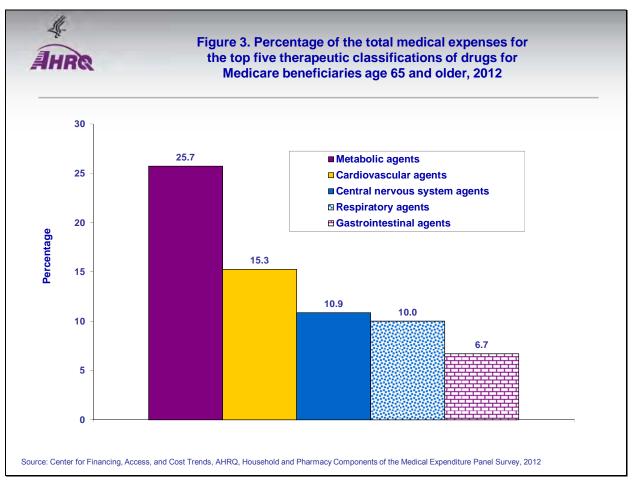
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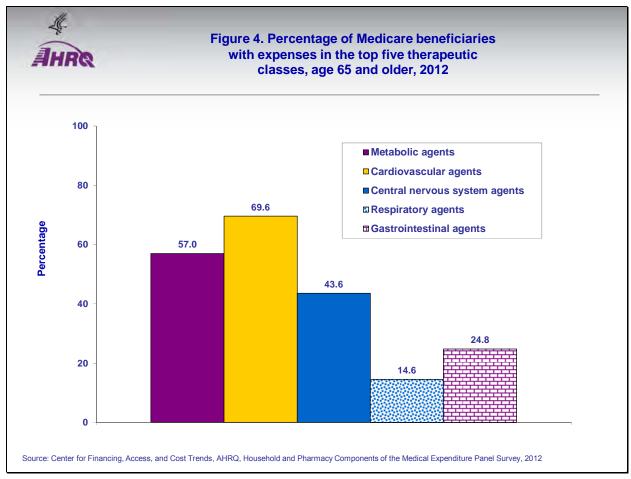
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Steven B. Cohen, PhD, Director Center for Financing, Access, and Cost Trends Agency for Healthcare Research and Quality 540 Gaither Road Rockville, MD 20850









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