

Mental Health and Substance Abuse Prescription Drug Spending Trends: Medicaid and Privately Insured Populations

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Background

- Prescription drugs are the fastest growing component of mental health / substance abuse (MHSA) treatment spending
 - Rx drugs increased from 17% to 21% of total public and private MHSA treatment spending
 - In private sector alone, rx contribution to overall MHSA spending doubled in 1990's (Mark et al, 2005)
- 20-30% annual growth in public and private MHSA drug spending in late 1990's (Zuvekas et al, 2005; Mark et al, 2005;Banthin and Miller, 2006)
- Contributing trends
 - New medications (atypical antipsychotics, SSRI antidepressants)
 - Changing diagnostic and treatment thresholds
 - Managed care
- Continued growth in 2000s for several drug classes



Overview of Study and Research Questions

- Purpose: Examine public and private MHSA prescription drug spending growth trends during a period of high growth to elicit lessons for drug management and policy the current environment
- Examine differences between public and private use of MHSA prescription drugs
- Research questions
 - What were the factors driving MHSA driving rapid rx spending growth? Price, volume, or new drugs?
 - How do MHSA rx spending trends differ between the public and private sector?
 - What are the drug classes that drive growth in each sector?
 - What are the trends for the elderly or disabled population in particular, to inform transition of Medicare beneficiaries to Part D?



Methods

Data

- Mental health and substance abuse prescription drug claims
- Transaction costs, patient and program total per claim

Population

- Medicaid fee-for-service in Michigan, New Jersey, Pennsylvania and Washington (1996-1999) n≈1.4 million each year
- Private Pharmacy Benefits Manager national representation (1997-2000) n≈1.4 million each year

Analysis

- Decomposition of drug spending growth
- Proportion that is increased prices, proportion that is increased volume, and mix of drugs
- Comparison of public and private trends
- Separate drug classes, age, and Medicaid eligibility category



Sources of Drug Spending Growth

Prescription drug spending growth: Price versus volume

<u>Cost</u> = <u>Cost</u> x <u>Days</u> x <u>Rx</u> x <u>Users</u> Person Day Rx User Population

Additional analysis for case mix versus price inflation using a "market basket" of drugs

Increased cost of rx/day over time = inflation + mix changes of existing drugs + new drugs

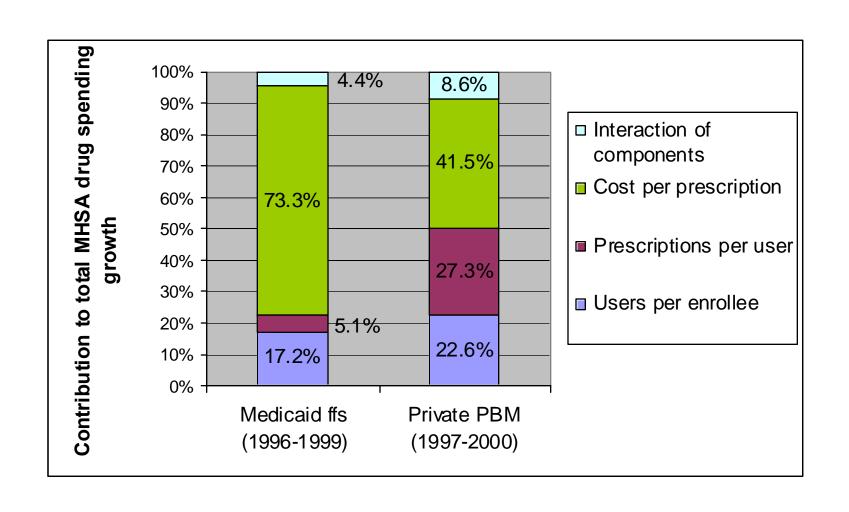


Results: Public vs Private Differences in MHSA Drug Use and \$\$ Spending

| Drug major class | Medicaid | | Privately insured | |
|-----------------------------|----------|------------|-------------------|------|
| Contribution to utilization | 1996 | 1999 | 1997 | 2000 |
| Anti-anxiety | 22% | 20% | 28% | 25% |
| Antidepressants | 32% | 37% | 51% | 55% |
| Antipsychotics | 32% | 30% | 8% | 6% |
| Hypnotics | 9% | 9% | 8% | 10% |
| Stimulants | 4% | 4% | 4% | 4% |
| Substance abuse drugs | 0% | 0% | 0% | 0% |
| Miscellaneous | 1% | 0% | 1% | 1% |
| Total all MHSA drugs | 100% | 100% | 100% | 100% |
| Contribution to spending | | | | |
| Anti-anxiety | 10% | 11% | 10% | 11% |
| Antidepressants | 39% | 34% | 71% | 69% |
| Antipsychotics | 43% | 50% | 8% | 9% |
| Hypnotics | 4% | 4% | 6% | 7% |
| Stimulants | 3% | 2% | 4% | 4% |
| Substance abuse drugs | 0% | 0% | 0% | 0% |
| Miscellaneous | 1% | 0% | 1% | 0% |
| Total all MHSA drugs | 100% | 100% | 100% | 100% |



Results: Differences Between Public and Private Sector in Sources of Drug Spending Growth





Results: Public/Private Differences in Spending Growth by Drug Class

| Major drug class | Share of MHSA drug spending growth (increase in cost per enrollee) | | |
|---|--|-------------------------------|--|
| | Medicaid (1996-1999) | Privately insured (1997-2000) | |
| Anti-anxiety | 11% | 12% | |
| Antidepressants | 28% | 68% | |
| Tricyclics | 0% | 2% | |
| SSRI | 15% | 36% | |
| SNRI | 13% | 30% | |
| Antipsychotics | 56% | 10.2% | |
| Typical | 13% | 3% | |
| Atypical | 44% | 7% | |
| Other | 0% | 0% | |
| Hypnotics | 3% | 7% | |
| Stimulants | 1% | 3% | |
| Substance abuse drugs | 0% | 0% | |
| Miscellaneous | 0% | 0% | |
| Total spending increase: all MHSA drugs | 100% | 100% | |
| Total increase in cost per enrollee | \$144.75 | \$25.88 | |



Age 65+ Population: Critical Differences Between Public and Private Sector

| Medicaid | 1996 | 1999 | Ave. annual % change, |
|--------------------|----------|----------|-----------------------|
| | | | compounded |
| User/enrollee | 40% | 40% | -0.4% |
| Claims/user | 11.2 | 11.6 | 1.2% |
| \$/claim | 26.55 | 46.42 | 20.5% |
| \$ per enrollee | \$118.69 | \$212.74 | 21.5% |
| Privately insured: | | | Ave. annual % change, |
| | 1997 | 2000 | compounded |
| User/enrollee | 17% | 20.5% | 6.5% |
| Claims/user | 5.1 | 6.1 | 5.6% |
| \$/claim | \$28.05 | \$44.44 | 16.6% |
| \$/enrollee | \$24.43 | \$59.15 | 34.3% |



Summary of Results

 MHSA drug spending growth near 30% annually in late 1990's

Medicaid:

- Spending each year half attributable to antipsychotics
- 75% of drug spending growth due to more expensive prescriptions (newer drugs, atypical antipsychotics)

Private PBM:

- Over half of utilization, 2/3 of spending, attributable to antidepressants – little antipsychotic use
- Growth about half due to increased prices, half due to increased utilization, much in newer antidepressants
- 2/3 of spending growth in the antidepressants

Elderly:

MHSA drug spending in each period was approximately 4 times higher in Medicaid population



Implications for Policy

- MHSA drug spending growth due to more individuals taking more expensive drugs
 - In current period, similar use of antipsychotics and antidepressants
 - Cost of newer antipsychotics was a strong driver of Medicaid spending
 - Newer drugs -- if they have improved effectiveness and side effect profile -- lower prescribing threshold
 - move to generics will be critical
- Drug management challenges are considerable in bringing Medicaid elderly population into private sector Part D or MA plans
 - Different drug management approaches necessary, without cost sharing incentives



Thank you! Questions?