

## Medicaid Spending and Utilization for Central Nervous System Drugs

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*Prior research has shown that prescription drug spending grew substantially during the decade of the 1990s. This analysis uses 1996 to 1998 State Medicaid Research File (SMRF) fee-for-service (FFS) data for 29 participating States to provide insight into the factors driving this growth. The analysis examines cost variation by census region, State, Medicaid basis of eligibility, and therapeutic use of drugs. In 1998, the highest expenditures were for central nervous system (CNS) drugs and for anti-psychotics compared to three other groups of CNS drugs (anti-anxiety agents, anti-depressants, and hypnotics). By eligibility group, expenditures were typically highest for disabled enrollees. There were major variations among SMRF States and their respective regions.*

### INTRODUCTION

In this article, we present Medicaid prescription drug spending on CNS drugs for 29 States for which SMRF data are available in 1998. The SMRF prescription drug records include coding that allowed us to analyze prescription drug utilization and spending by therapeutic use. Because there is substantial variation in Medicaid Program characteristics across States, we did not attempt to estimate national Medicaid utilization and spending for CNS drugs.

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The authors are with the Centers for Medicare & Medicaid Services (CMS). The statements expressed in this article are those of the authors and do not necessarily reflect the views or policies of the Centers of Medicare & Medicaid Services (CMS).

In other research we have shown that national Medicaid prescription drug spending grew from \$4.4 billion in 1990 to over \$20 billion in 2000, representing an average annual increase of 16.3 percent during the decade. The average annual increase was even greater for the disabled at over 20 percent. We found that the percentage of total Medicaid prescription drug payments for the disabled increased from just over 40 percent to nearly 60 percent during those 10 years. We also showed that the disabled and aged eligibility groups represented a disproportionate share of total drug spending. Together, these 2 groups represented only 29.1 percent of Medicaid drug recipients in FY 2000, but they accounted for 84.9 percent of Medicaid drug payments. By therapeutic category, the largest percentage of total Medicaid prescription drug payments (17 percent in 1997) was for CNS drugs (Baugh et al., 2004). The statistics presented here were produced to develop a better understanding about the factors driving Medicaid prescription drug spending variations.

The tables and figures use 1998 data for all 29 of the States available in the SMRF data (Centers for Medicare & Medicaid Services, 2003). They present data on prescription drug recipients, number of prescriptions and Medicaid payments for drugs by eligibility group, therapeutic category, and group and individual State.

In the tables and figures, Medicaid eligibility is presented for four major eligibility groups: aged, disabled, adults, and children.

The disabled group includes beneficiaries of any age who were determined to be eligible because of disability or blindness. The children's group includes foster care and adoptive services children. There were a small number of beneficiaries with unknown basis of eligibility that is not reported.

The data are presented for all of the Medi-Span therapeutic categories (Wolters Kluwer Health, 2003) in Figures 1 and 2. In Figures 3 through 11, data are presented by four of the Medi-Span therapeutic groups (anti-anxiety agents, anti-depressants, anti-psychotics, and hypnotics) within the CNS category. Additionally, data for individual SMRF States are presented within their respective regions in Figures 10 and 11. Tables 1 and 2 provide detailed information on CNS drug payments, number of prescriptions by State and basis of eligibility. Table 3 provides further detail on drug payments number of prescriptions, and drug recipients for the four CNS drug groups.

Analysis of utilization and spending for prescription drugs by therapeutic use for the dually eligible (persons eligible to receive both Medicaid and Medicare services) will be presented in later research. This is because the data for 1999, and later years contain more detailed information on dually eligible status. Future research will also examine utilization and spending for brand-name, off-patent brand-name and generic drugs.

## CONCLUSION

In 1998, CNS drugs was the most expensive therapeutic category of drugs for the 29 State Medicaid Programs in our study. The greatest increases in Medicaid drug spending by therapeutic category between 1996 and 1998 were also observed for CNS drugs. Among eligibility groups, the dis-

abled, in these States, accounted for the largest percentage of total Medicaid spending for CNS drugs at 71 percent in 1996, increasing to 73 percent in 1998. Spending for CNS drugs in 1998 was \$1,102 for the disabled, compared to \$291 for the aged, \$66 for adults and \$52 for children. Among the four CNS drug groups, high numbers of prescriptions per recipient, and high payment per prescription led to the highest payments per recipient for anti-psychotics, regardless of eligibility group. Among SMRF States and census regions, there were major variations in payments per recipient and prescriptions per recipient for CNS drugs.

## TECHNICAL NOTES

As of June 1998, many States had prepaid health care plans covering at least some State beneficiaries. These plans may have provided limited or comprehensive coverage of prescription drugs. Based on available data, it is not possible to develop accurate counts of drug recipients, number of prescriptions, and payments for drugs provided by prepaid plans. Therefore, the data presented here are for FFS prescriptions. Previous research showed that the percentage of beneficiaries who were enrolled in prepaid plans and received no FFS drugs was 33 percent in 1998 across all eligibility groups, but varied by State from below 2 percent (9 States) to 57 percent (New Mexico). The percentage was lower for aged and disabled beneficiaries (12 and 17 percent, respectively) than for children and adults (41 and 36 percent, respectively).

These Medicaid data can be used to examine patterns of payment, but not appropriateness of care. Differences in payment patterns, by health care professionals, should not be attributed to inappropriate recognition or management of complex conditions.

## ACKNOWLEDGMENTS

The authors wish to thank Harold Cooper and Celia Dahlman for their work in developing the software that was used to tabulate SMRF prescription drug claim records by therapeutic category and group.

## REFERENCES

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Wolters Kluwer Health: Internet address: [http://www.Medi-Span.com/products/product\\_mddb.asp](http://www.Medi-Span.com/products/product_mddb.asp) (Accessed May 2003).

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**Table 1**

**Medicaid Central Nervous System Drug Prescriptions for 29 SMRF States, by Basis of Eligibility: 1998**

State	Basis of Eligibility <sup>1</sup>				Total
	Aged	Disabled	Adults	Children	
	Number of Prescriptions <sup>2</sup>				
Alabama	171,947	504,090	21,628	29,080	726,745
Alaska	14,938	57,966	19,740	7,884	100,528
Arkansas	168,518	277,592	20,818	37,310	504,238
California	711,050	3,035,654	237,501	137,803	4,122,009
Colorado	136,643	236,098	18,384	25,501	416,642
Delaware	22,269	67,156	37,825	7,338	134,588
Florida	766,658	1,607,891	130,075	78,286	2,583,962
Georgia	258,379	701,627	76,746	82,893	1,119,645
Idaho	38,329	97,648	12,570	7,944	156,500
Indiana	405,514	632,326	46,661	77,296	1,161,797
Iowa	196,453	347,691	55,094	51,389	650,627
Kansas	121,809	220,008	18,279	36,046	396,142
Kentucky	281,661	705,378	62,725	38,492	1,088,256
Maine	122,442	294,946	43,276	27,109	487,773
Michigan	314,254	797,577	80,521	51,202	1,243,555
Minnesota	175,263	553,531	34,927	30,500	794,269
Missouri	471,605	819,058	48,636	58,986	1,398,285
Mississippi	171,817	370,791	13,963	21,544	578,122
Montana	41,782	91,775	24,470	14,447	172,474
New Hampshire	81,801	149,197	30,792	22,205	284,023
New Jersey	305,276	871,779	11,479	24,812	1,213,346
New Mexico	44,840	84,471	4,456	4,651	138,418
North Dakota	48,596	55,052	8,640	9,470	121,761
Pennsylvania	882,389	1,235,475	100,090	92,077	2,310,031
Utah	55,015	183,466	49,288	29,469	317,238
Vermont	63,063	115,290	8,895	6,295	193,553
Washington	313,891	805,026	26,117	16,452	1,161,486
Wisconsin	312,086	770,476	11,362	21,238	1,115,162
Wyoming	17,505	31,165	6,060	6,023	60,753

<sup>1</sup> The Medicaid eligibility group identifies the basis on which Medicaid eligibility was determined, regardless of cash assistance status. The disabled group includes individuals of any age who were determined to be eligible because of disability or blindness. The children's group includes foster care and adoptive service children. There were a small number of beneficiaries with unknown basis of eligibility that are not reported here.

<sup>2</sup> Many States had prepaid care plans covering at least some State beneficiaries, as of June, 1998. These plans may have provided limited or comprehensive coverage of prescription drugs. It is not possible to reliably identify number of prescriptions or prescription payments for drugs provided by prepaid plans, at this time. Therefore, the number of prescriptions reported here are FFS prescriptions.

SOURCE: Centers for Medicare & Medicaid Service, Office of Research, Development, and Information: State Medicaid Research Files (Wolters Kluwer Health, 2003).

Table 2

## Medicaid Central Nervous System Drug Payments for 29 SMRF States, by Basis of Eligibility: 1998

State	Basis of Eligibility <sup>1</sup>					Total
	Aged	Disabled	Adults	Children	Payments <sup>2</sup>	
Alabama	\$6,841,244	\$27,736,229	\$928,588	\$931,047	\$36,437,108	
Alaska	654,159	4,876,003	1,038,196	462,920	7,031,278	
Arkansas	7,316,446	19,696,533	1,058,098	1,183,069	29,254,146	
California	31,704,133	251,645,261	14,778,779	7,748,932	305,877,110	
Colorado	5,764,531	16,613,279	900,106	1,574,526	24,853,899	
Delaware	917,749	4,433,952	1,912,480	392,208	7,656,389	
Florida	32,696,077	100,966,854	6,049,983	3,633,971	143,412,985	
Georgia	11,846,366	41,529,239	3,476,343	2,674,333	59,526,281	
Idaho	1,738,070	6,904,317	696,561	388,892	9,728,136	
Indiana	18,612,307	42,820,396	1,884,973	4,133,690	67,451,366	
Iowa	8,225,276	23,986,931	2,844,952	2,398,802	37,455,961	
Kansas	6,524,859	18,870,043	1,113,764	2,088,952	28,597,618	
Kentucky	9,896,521	43,644,882	3,589,750	2,001,462	59,132,615	
Maine	4,930,283	18,359,145	2,256,591	1,460,408	27,006,427	
Michigan	12,887,267	54,455,868	4,203,415	2,464,934	74,011,504	
Minnesota	6,841,346	43,380,860	1,924,636	1,491,574	53,639,902	
Missouri	21,746,673	58,443,776	2,221,506	2,794,390	85,206,345	
Mississippi	8,282,750	25,857,206	738,810	884,603	35,763,831	
Montana	1,654,862	6,199,776	1,403,836	581,051	9,839,525	
New Hampshire	3,484,394	10,332,423	1,664,046	1,226,384	16,708,049	
New Jersey	12,949,124	58,072,673	534,106	1,422,274	72,978,177	
New Mexico	1,861,342	4,915,629	180,388	230,280	7,187,639	
North Dakota	2,142,739	3,821,249	426,576	485,242	6,875,877	
Pennsylvania	39,302,482	86,177,707	5,336,162	5,090,895	135,907,246	
Utah	2,496,666	12,571,566	2,547,254	1,396,699	19,012,185	
Vermont	2,437,913	7,855,093	404,361	328,719	11,026,342	
Washington	12,648,430	55,608,492	1,200,494	812,246	70,269,662	
Wisconsin	13,879,770	49,877,012	540,318	1,152,095	65,449,195	
Wyoming	795,638	2,451,716	337,346	340,886	3,925,586	

<sup>1</sup> The Medicaid eligibility group identifies the basis on which Medicaid eligibility was determined, regardless of cash assistance status. The disabled group includes individuals of any age who were determined to be eligible because of disability or blindness. The children's group includes foster care and adoptive service children. There were a small number of beneficiaries with unknown basis of eligibility that are not reported here.

<sup>2</sup> Many States had prepaid care plans covering at least some State beneficiaries, as of June, 1998. These plans may have provided limited or comprehensive coverage of prescription drugs. It is not possible to reliably identify number of prescriptions or prescription payments for drugs provided by prepaid plans, at this time. Therefore, the payments reported here are for FFS prescriptions.

SOURCE: Centers for Medicare & Medicaid Services, Office of Research, Development, and Information: State Medicaid Research Files (Wolters Kluwer Health, 2003).

**Table 3**  
**Medicaid Central Nervous System (CNS) Drug Prescriptions, Payments and Recipients for 29 SMRF States, by Basis of Eligibility and CNS Drug Group: 1998**

Measure <sup>2</sup>	Basis of Eligibility <sup>1</sup>			
	Aged	Disabled	Adults	Children
<b>Number of Prescriptions</b>				
Anti-Anxiety Agents	1,563,419	2,696,771	303,251	195,616
Anti-Depressants	3,031,053	6,138,328	766,631	574,643
Anti-Psychotics	1,467,216	5,585,437	112,323	237,910
Hypnotics	654,105	1,299,664	78,813	45,573
All CNS Drugs	6,715,793	15,720,200	1,261,018	1,053,742
<b>Payments</b>				
Anti-Anxiety Agents	\$42,572,746	\$85,985,350	\$7,066,669	\$3,198,307
Anti-Depressants	138,472,269	350,282,331	47,408,021	27,874,447
Anti-Psychotics	95,034,419	637,882,904	9,442,813	20,259,345
Hypnotics	14,999,983	27,953,525	2,274,915	443,227
All CNS Drugs	291,079,417	1,102,104,110	66,192,418	51,775,326
<b>Recipients</b>				
Anti-Anxiety Agents	289,083	498,291	111,147	126,725
Anti-Depressants	400,718	839,005	210,177	125,134
Anti-Psychotics	214,475	537,100	43,928	46,265
Hypnotics	133,040	247,040	31,944	17,396
All CNS Drugs	706,153	1,385,529	315,046	275,023

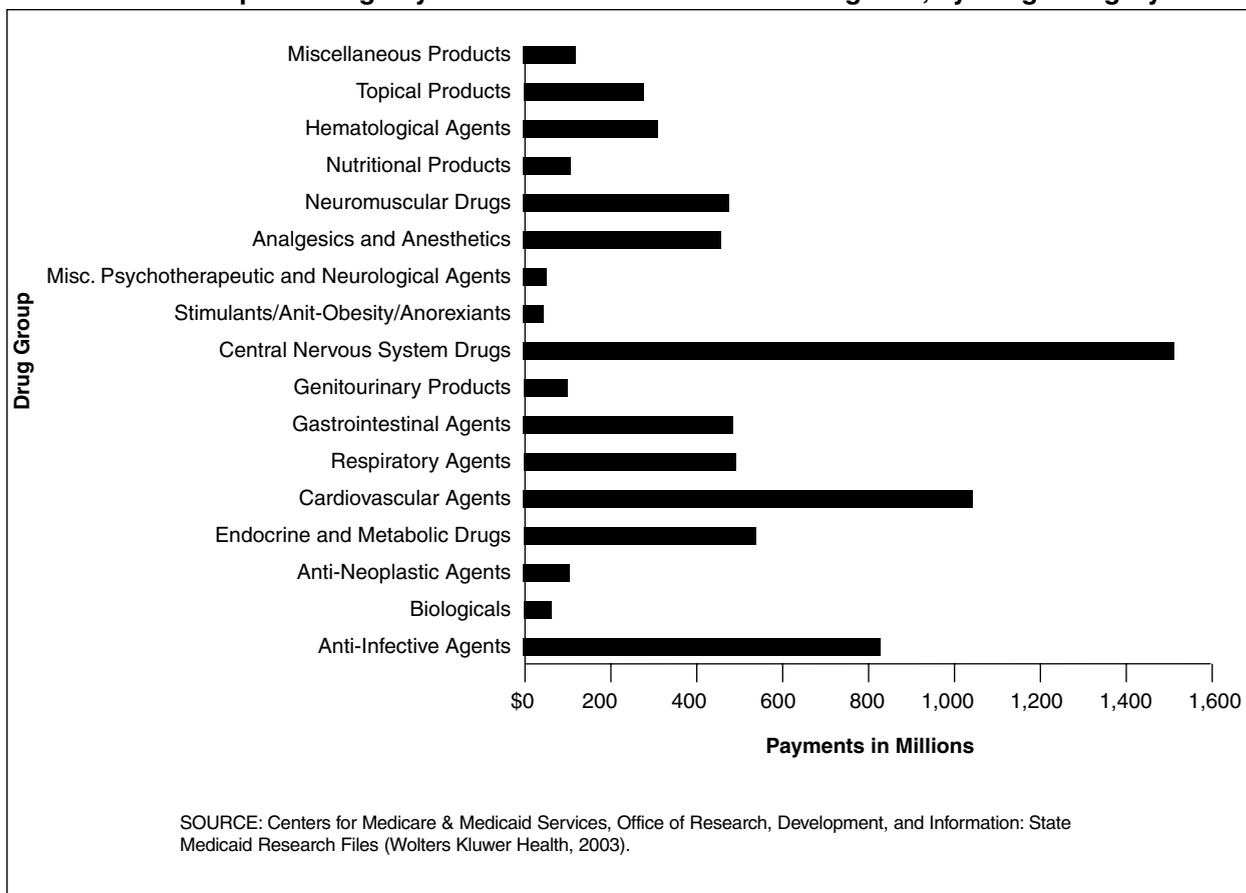
<sup>1</sup> The Medicaid eligibility group identifies the basis on which Medicaid eligibility was determined, regardless of cash assistance status. The disabled group includes individuals of any age who were determined to be eligible because of disability or blindness. The children's group includes foster care and adoptive service children. There were a small number of beneficiaries with unknown basis of eligibility that are not reported.

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SOURCE: Centers for Medicare & Medicaid Services, Office of Research, Development, and Information: State Medicaid Research Files (Wolters Kluwer Health, 2003).

Figure 1

Medicaid Prescription Drug Payments for 29 SMRF States All Eligibles, by Drug Category: 1998

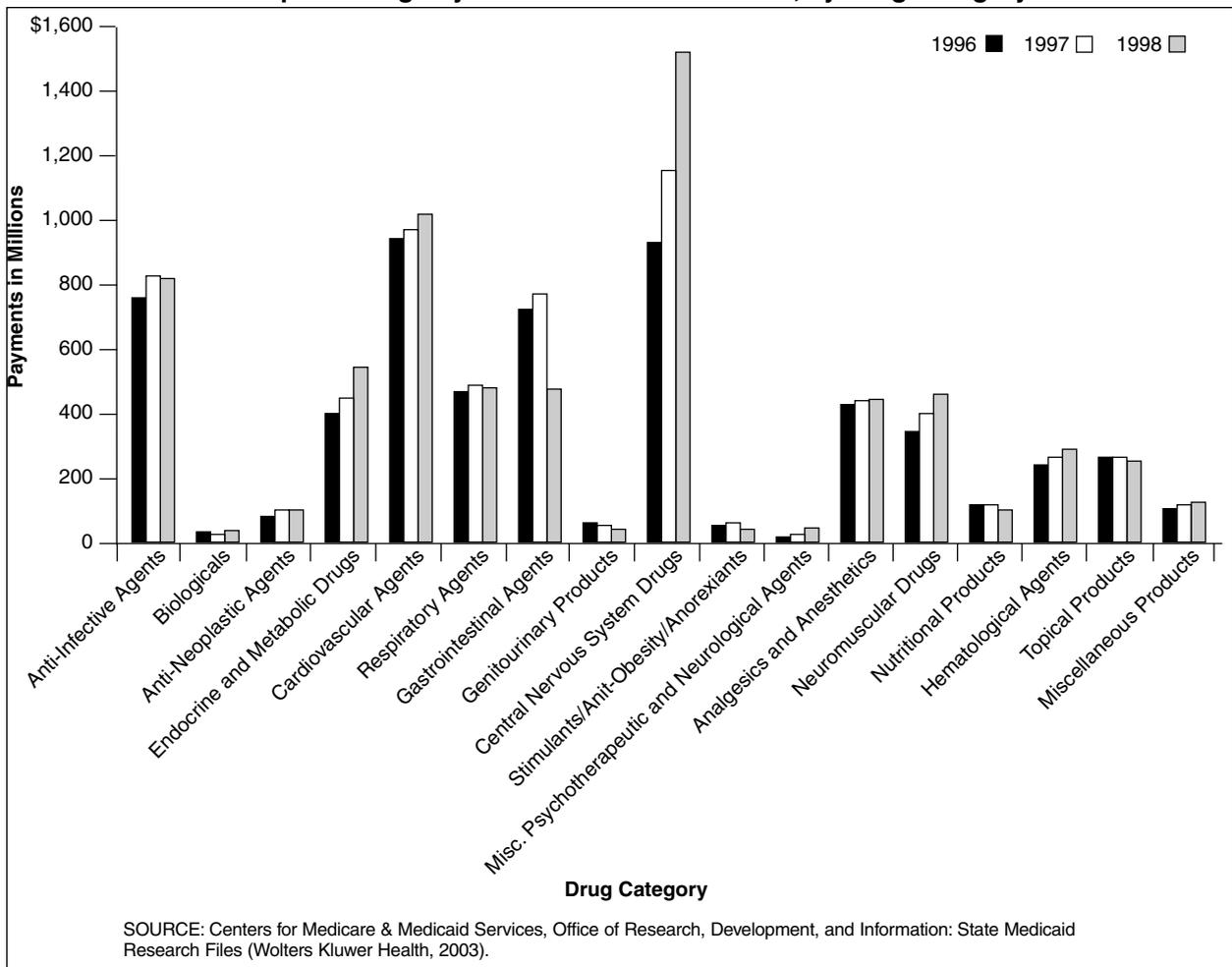


Central Nervous System (CNS) Drug Payments Exceeded \$1.5 Billion in the 29 SMRF States

- For all four eligibility groups, CNS drug payments were over 48 percent greater than the second highest drug category, cardiovascular agents.
- Even though CNS drug payments exceeded payments for all other drug groups, the number of CNS prescriptions dispensed was not the highest. Prescriptions dispensed for cardiovascular agents outpaced CNS drugs 31.4 to 24.8 million.
- Medicaid payment per prescription for all eligibles in 1998 for these 29 States was highest, by an overwhelming margin, for biologicals at nearly \$590 each (data not shown). Of the 17 drug groups, 15 averaged under \$82 per prescription. In this comparison, CNS drug payments per prescription was comparable to most of the other groups and did not exhibit atypical cost averages.
- In 1998, the disabled eligibility group constituted a 55.3 percent share of the total Medicaid prescription drug payments (data not shown). The trend has shown yearly increases since at least 1990 when the disabled's share of drug payments was 42.2 percent of the total, an amount higher than any of the other three eligibility groups. This study highlights the increasingly important impact of the disabled on Medicaid payments and CNS drug use.

Figure 2

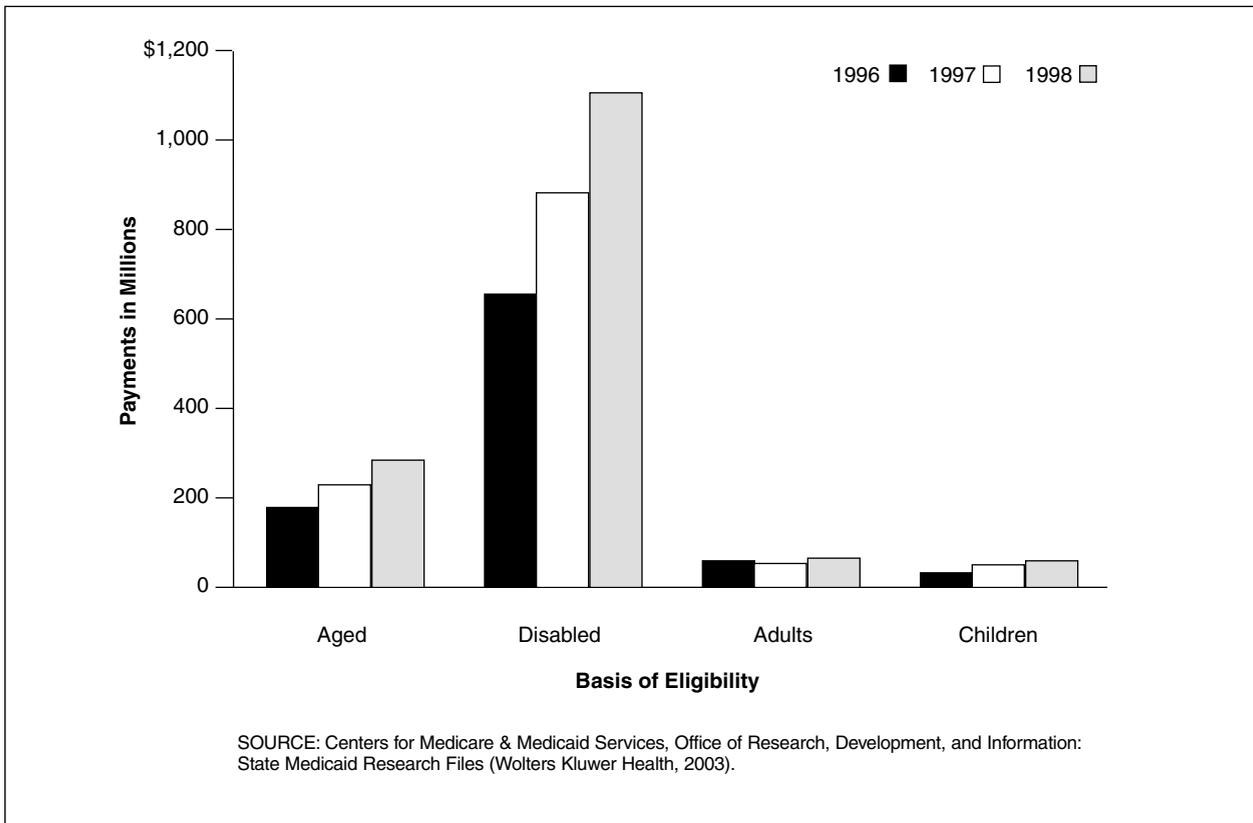
Medicaid Prescription Drug Payments for 29 SMRF States, by Drug Category: 1996-1998



### Total Medicaid Payments for Central Nervous System (CNS) Prescription Drugs Grew Phenomenally from 1996 to 1998 for the 29 SMRF States

- The explosive growth rate in payments for CNS drugs is evidenced by consecutive year increases. The 26.2 percent increase from 1996 to 1997 was shadowed by an even larger 29.9 percent jump in 1998.
- CNS drug payments increased by 63.9 percent in the 2-year period ending in 1998 and exceeded \$1,511 million. This increase was second only to the 238.8 percent growth in payments in miscellaneous psychotherapeutic and neurological agents which reached only \$46 million.
- In the same time period, payments for all drug categories increased by 13.6 percent to \$6,907 million in 1998 in these 29 SMRF States. At a rate of growth of more than 4½ times that of the average for all drug categories, CNS drug payments were a major driver in the cost of the Medicaid Program for all Americans.
- No other drug category exhibited such a marked impact on total Medicaid drug payments in such a short period as did CNS drugs. Ten of the drug groups demonstrated either modest growth or declines; but CNS drug payments rose sharply in both years. Should this trend persist, CNS drug payments will continue to have a tremendous impact on the future of Medicaid spending.

**Figure 3**  
**Medicaid Central Nervous System (CNS) Drug Payments for 29 SMRF States, by Basis of Eligibility: 1996-1998**

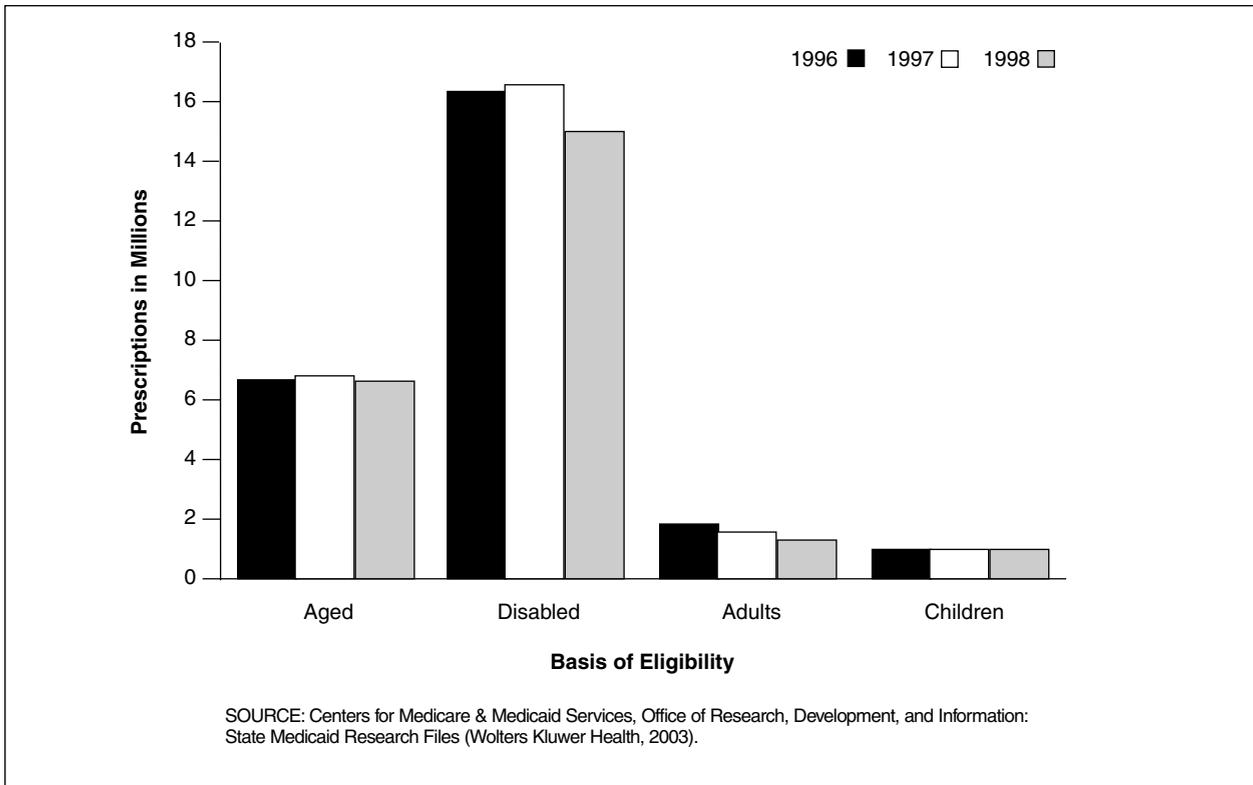


**In the 29 SMRF States, the Disabled had the Largest Share of CNS Drug Payments**

- The disabled had \$658 million in CNS drug payments in 1996, \$840 million in 1997, and \$1,102 million in 1998. The disabled had the largest share of CNS drug payments for all 3 years.
- The largest change in share was a modest increase for the disabled which experienced an increase from 71.4 percent of the total spending for CNS drugs in 1996 to 72.9 percent in 1998.
- From 1996 to 1998 there was virtually no shift in the share of payments for CNS prescription drugs based on eligibility. The aged received about 19 percent, the disabled received about 72 percent, adults received about 5.5 percent and children received only 3.2 percent.
- By no means should these seemingly mild changes in spending shares indicate that CNS drug spending is under control. The unchanging nature of the share of payments may actually be a concern for the Medicaid Program since payments for these years may serve as indicators that high CNS payments could burden Medicaid for the foreseeable future. The breakdown of payments by basis of eligibility for these 3 years merely indicates how CNS drug payments have been channeled to these 4 segments of the population.

**Figure 4**

**Medicaid Central Nervous System (CNS) Drug Prescriptions for 29 SMRF States, by Basis of Eligibility: 1996-1998**

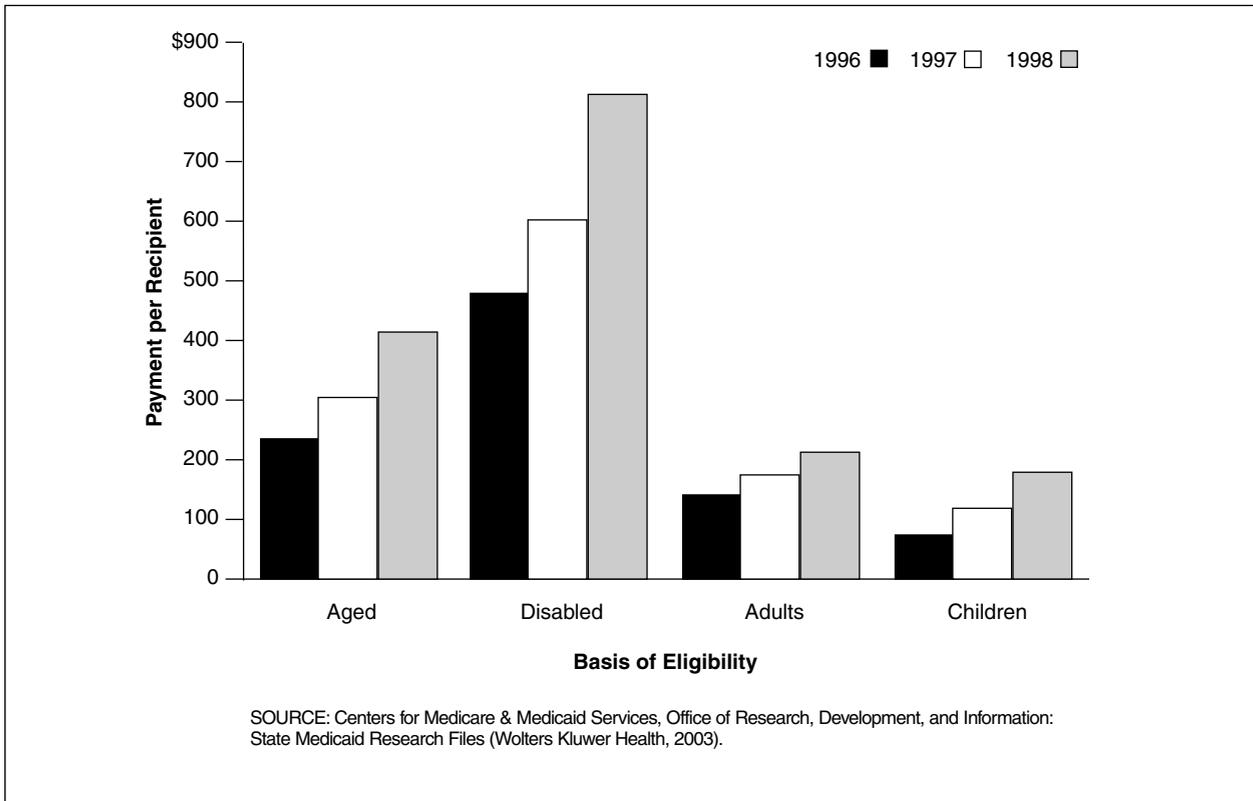


**Disabled Medicaid Recipients Clearly Used More Prescription CNS Drugs Than Any Other Eligibility Group From 1996 to 1998 in the 29 SMRF States**

- The disabled accounted for 16.3 million prescriptions in 1996, 16.5 million in 1997, and 15.7 million in 1998. The trend in fewer prescriptions is true for all four eligibility groups. From 1996 to 1998 disabled Medicaid recipients received 15 times the number of prescriptions that children received.
- Each of the four eligibility groups had fewer prescriptions dispensed in 1998 than in 1996. Adults had the greatest decrease in number from 1.90 million in 1996 to 1.26 million in 1998.
- In 1996 there were 26.1 million FFS CNS drug prescriptions dispensed for all groups compared to 24.7 million in 1998. Why does it appear that CNS prescription drug use among Medicaid recipients decreased? One possible explanation could be the increased enrollment in prepaid plans from 1996 to 1998 in these States. Reporting number of prescriptions paid by prepaid plans is unreliable at this time. However, in the same period in which the number of prescriptions declined, CNS drug payments increased by 63.9 percent.

**Figure 5**

**Medicaid Central Nervous System (CNS) Drug Payments Per Recipient for 29 SMRF States, by Basis of Eligibility: 1996-1998**

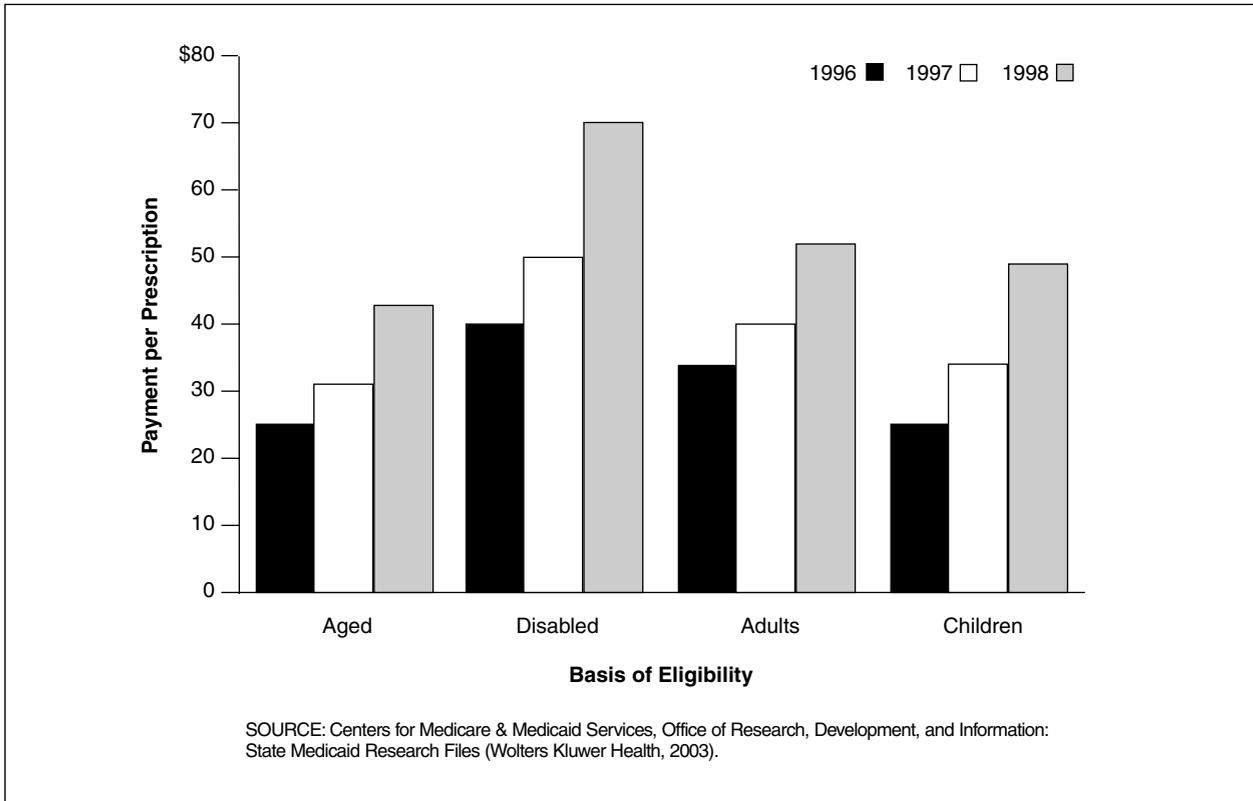


**Disabled Beneficiaries in the 29 SMRF States Had the Highest Utilization of Prescription CNS Drugs Based on Payment Per Recipient for All 3 Years**

- The disabled had an annual average CNS drug payment of \$483 in 1996, \$603 in 1997, and \$814 in 1998. Children, who consistently received the lowest annual payment per recipient, received \$79 in 1996, \$117 in 1997, and \$187 in 1998.
- In 1998 the disabled's average CNS drug payment of \$814 was nearly double the amount for the aged, well over triple the amount for adults, and over four times the amount for children.
- The percentage increase in drug payments for all four basis of eligibility groups was higher from 1997 to 1998 than it was for 1996 to 1997. The payment per recipient for the disabled increased by 24.95 percent from 1996 to 1997, and another 34.86 percent from 1997 to 1998.
- As remarkable as the increase was for the disabled, the rate of growth for children was considerably higher. Children experienced a jump in the average payment per recipient for CNS drugs of 48.74 percent from 1996 to 1997, and 59.72 percent from 1997 to 1998.

**Figure 6**

**Medicaid Central Nervous System (CNS) Payment Per Prescription for 29 SMRF States, by Basis of Eligibility: 1996-1998**

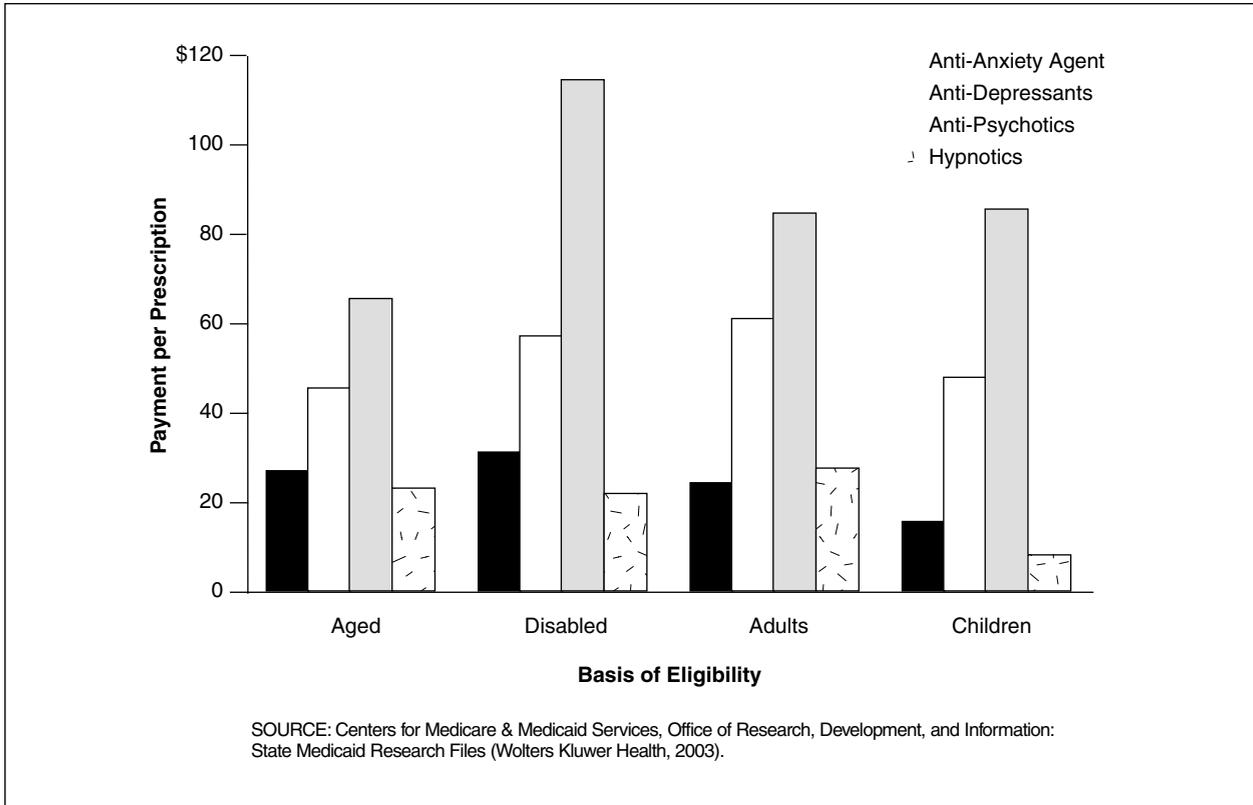


**In the 29 SMRF States, Disabled Beneficiaries Had the Highest Payment Per Prescription for CNS Drugs for All 3 Years**

- Payment per prescription for CNS drugs for the disabled was \$40 in 1996, \$51 in 1997, and \$70 in 1998. In contrast, payment per prescription for CNS drugs was lowest in all three years for the aged at \$25 in 1996, \$32 in 1997, and \$43 in 1998.
- In 1998, payment per prescription for CNS drugs for the disabled at \$70, was substantially higher compared to the payment per prescription for CNS drugs for the other basis of eligibility groups - \$52 for adults, \$49 for children, and \$43 for the aged.
- The percentage increase in payment per prescription for all four basis of eligibility groups was greater from 1997 to 1998 than it was for 1996 to 1997. Payment per prescription for the disabled increased by 25.86 percent from 1996 to 1997, and another 38.21 percent from 1997 to 1998.
- As high as these increases were for the disabled, payment per prescription grew at an even higher rate for children (33.72 percent from 1996 to 1997, and 43.58 percent from 1997 to 1998). The increase from 1996 to 1997 was also higher for the aged than it was for the disabled.

**Figure 7**

**Medicaid Payment Per Prescription for Central Nervous System (CNS) Drugs for 29 SMRF States, by Basis of Eligibility and CNS Drug Group: 1998**

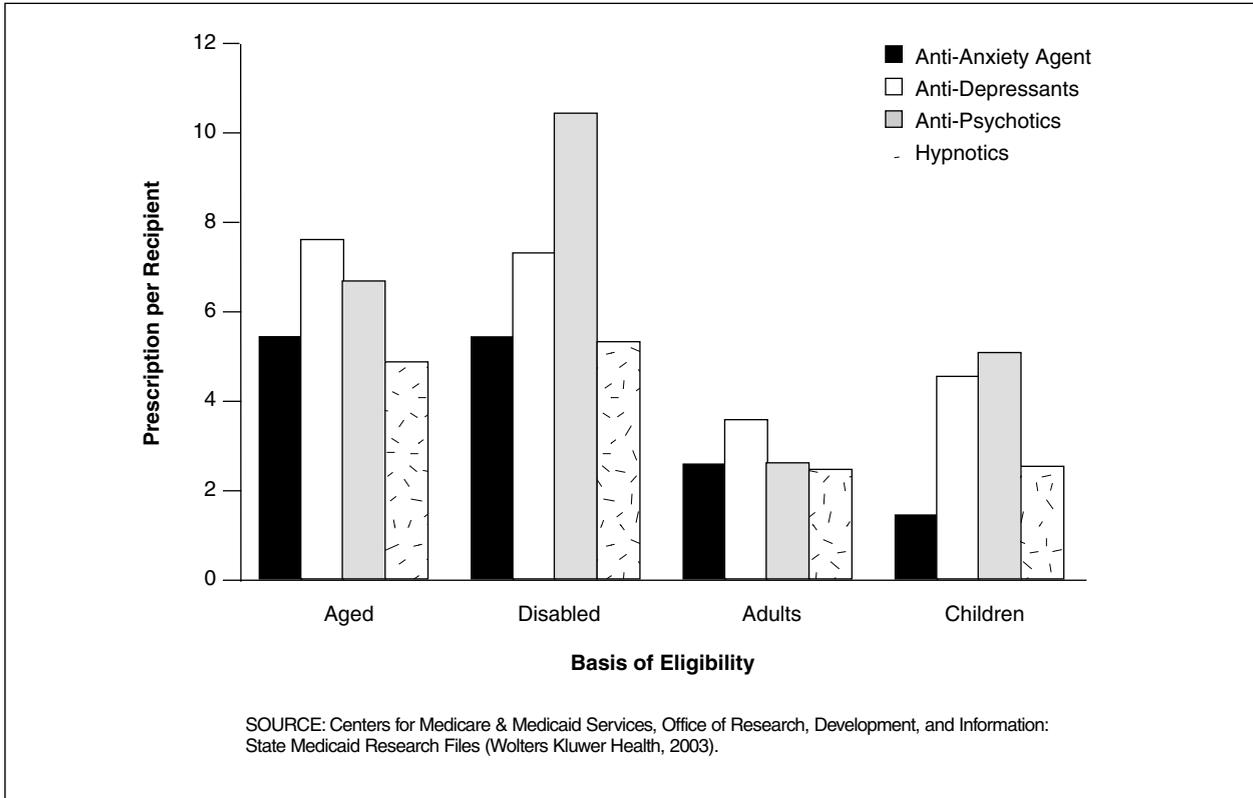


**Payment Per Prescription for Anti-Psychotics was Much Higher Than for Other CNS Drug Groups in the 29 SMRF States Between 1996 and 1998**

- Payment per prescription for anti-psychotics ranged from a high of \$114 for disabled eligibles, \$85 for children, \$84 for adults, and a low of \$65 for aged eligibles. Per prescription, anti-psychotics were more costly than other CNS drug groups, regardless of basis of eligibility.
- Anti-depressants was the second most costly CNS drug group. However, the difference by basis of eligibility was relatively small for anti-depressants, ranging from a low of \$46 for the aged to a high of \$62 for adults.
- Per prescription payment for anti-anxiety drugs was lowest for children at \$16 and highest for the disabled at \$32.
- Among these CNS drug groups, hypnotics was the least costly CNS drug group per prescription, ranging from a low of \$10 for children to a high of \$29 for adults.

**Figure 8**

**Medicaid Number of Prescriptions Per Recipient for Central Nervous System (CNS) Drugs for 29 SMRF States, by Basis of Eligibility and CNS Drug Group: 1998**

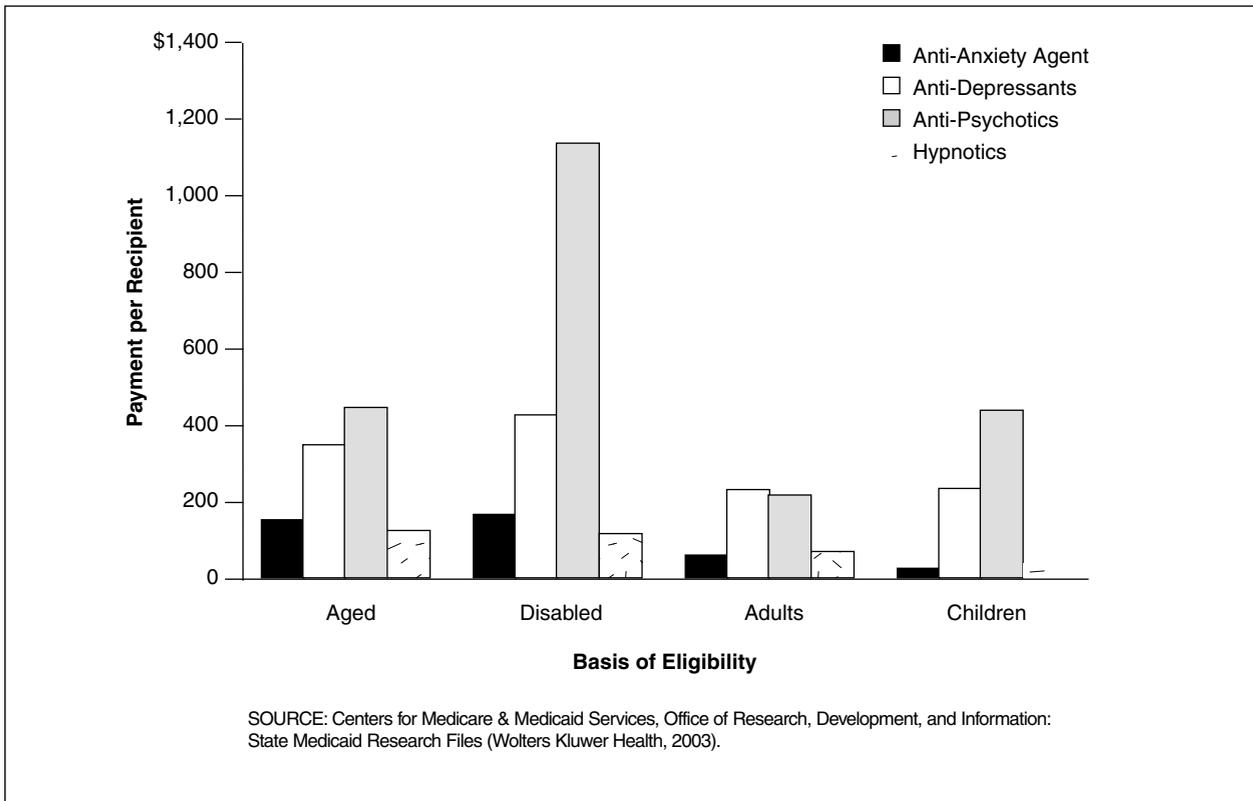


**In the 29 SMRF States, Disabled Enrollees Were Among the Highest Users of CNS Drugs**

- Prescriptions per recipient for the disabled were higher for each CNS drug group than they were for any of the other basis of eligibility groups, with one exception. The exception was that the aged used more anti-depressants per recipient than the disabled.
- Usage of anti-psychotics by the disabled, 10.4 prescriptions per recipient, was substantially higher than usage of these drugs by other basis of eligibility groups—6.8 for the aged, 5.1 for children and 2.6 for adults.
- With the exception of children, anti-anxiety drugs were used more frequently, on a per recipient basis, than hypnotics. Per recipient use of both anti-anxiety and hypnotic drugs was much lower than anti-depressants and anti-psychotics for all basis of eligibility groups except adults.

Figure 9

Medicaid Payment Per Recipient for Central Nervous System (CNS) Drugs for 29 SMRF States, by Basis of Eligibility and CNS Drug Group: 1998

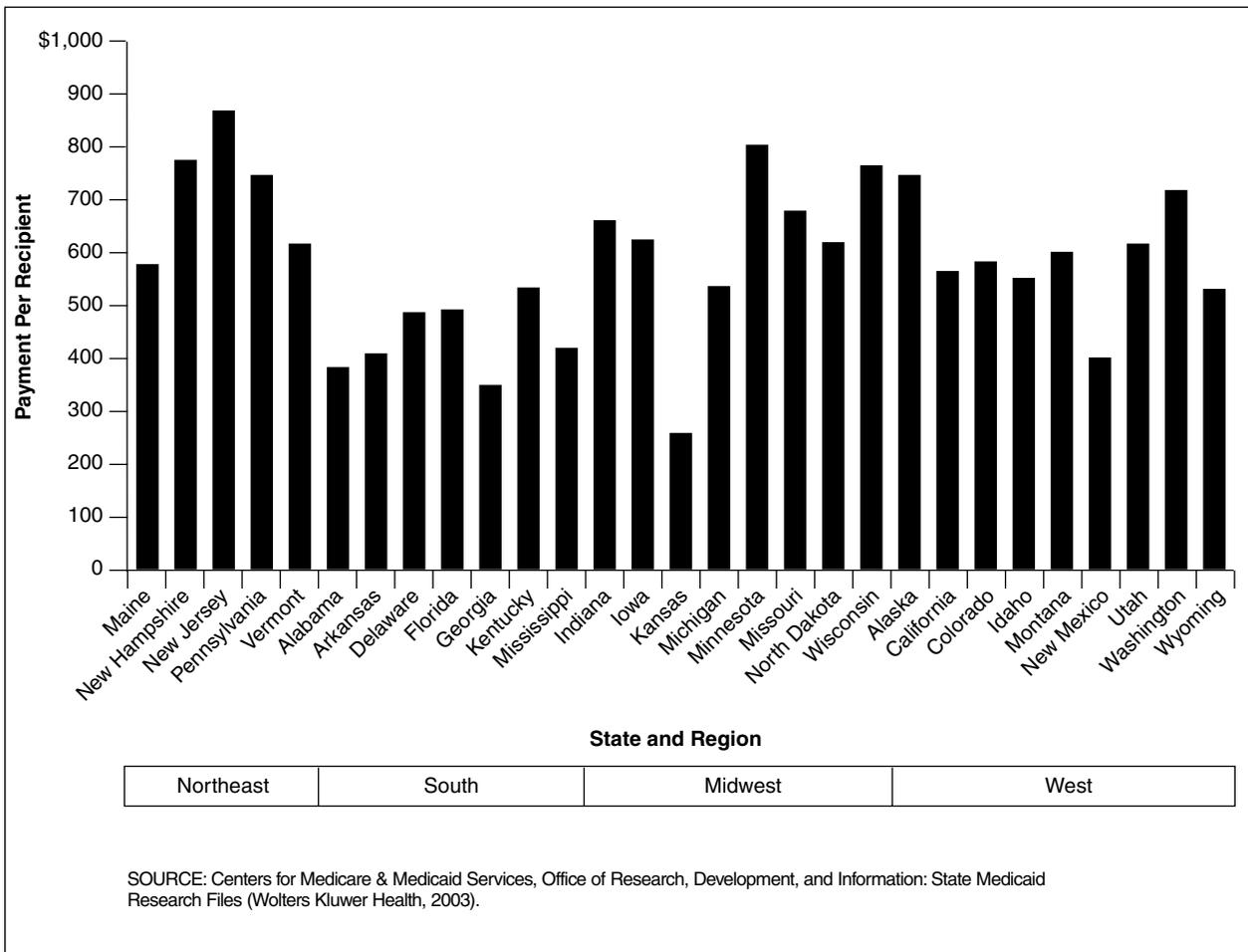


Payment Per Disabled Recipient for Anti-Psychotics was Much Higher Than for Other CNS Drug Groups in the 29 SMRF States

- Payment per recipient for anti-psychotics for the disabled (\$1,188) was nearly three times the amount for the aged (\$443) and children (\$438) and nearly five times the amount for adults (\$215). This finding is the result of at least two major factors: payment and utilization. Payment per prescription for anti-psychotics for the disabled was very high (Figure 7). Also, utilization of anti-psychotics by the disabled was also very high (Figure 8).
- Payment per recipient for anti-depressants was also higher for the disabled than for any other basis of eligibility group. However, the difference for anti-depressants by basis of eligibility was smaller than for anti-psychotics, ranging from \$223 for children to \$417 for the disabled.
- Compared to other CNS drugs, anti-anxiety and hypnotic drugs were relatively inexpensive per recipient at \$173 or less. Per recipient expenditures for anti-anxiety drugs were slightly higher for the disabled and aged than for adults and children. In contrast, payment per recipient for hypnotics was slightly higher for adults and children than for the disabled and aged.

Figure 10

Medicaid Central Nervous System (CNS) Drug Payment Per Recipient for 29 SMRF States Within U.S. Census Regions: 1998

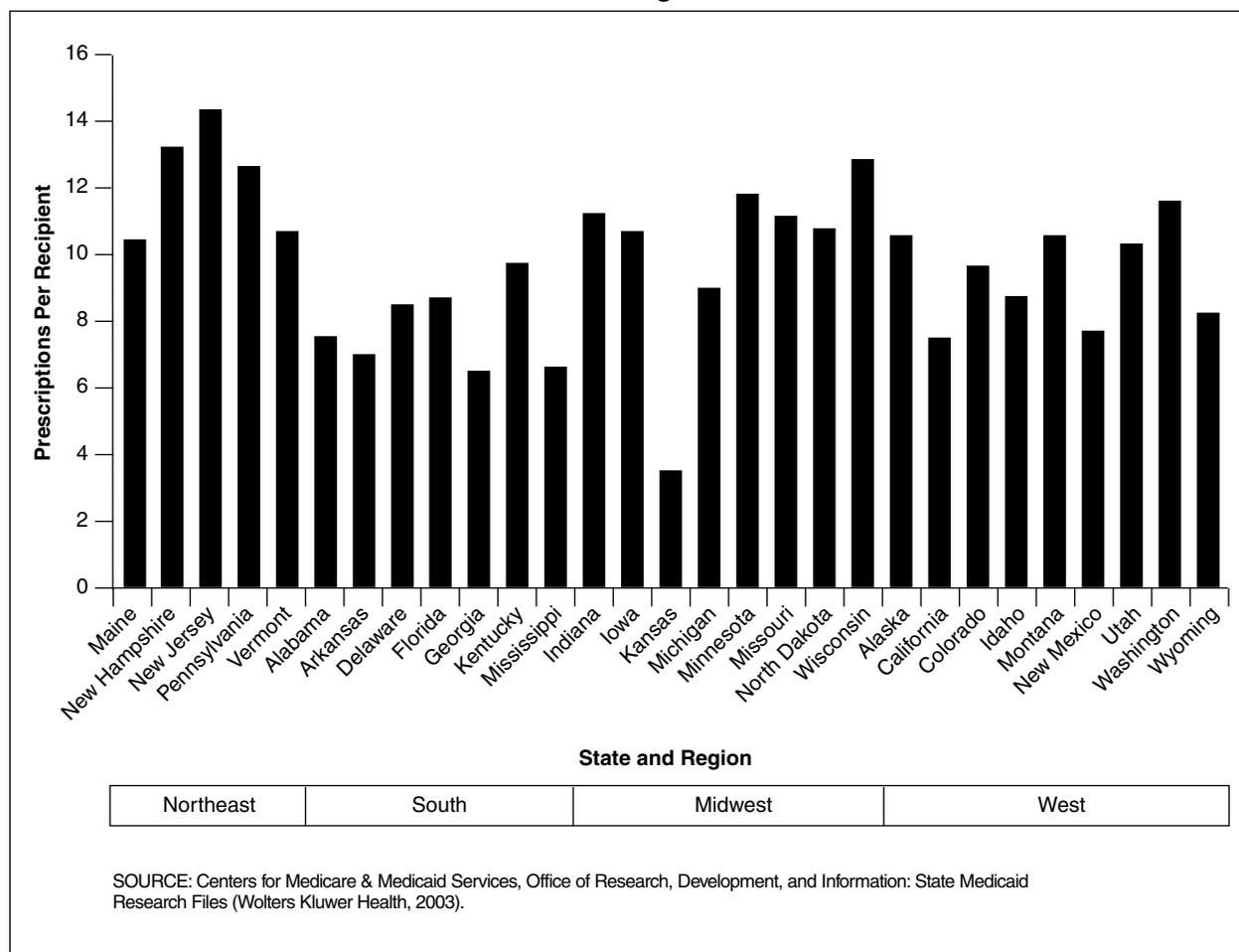


Drug Payment Per Recipient for CNS Agents Varied Greatly Across Regions

- The Northeast region had the highest payment per recipient for CNS agents. In contrast, the South had the lowest. By State, New Jersey had the highest payment per recipient for CNS agents at \$866 per recipient followed by Minnesota at \$802 per recipient. Kansas had the lowest payment per recipient for CNS agents at \$258 per recipient.
- By drug group (data not shown), anti-psychotics had the highest payment per recipient for all regions followed by anti-depressants. Hypnotics had the lowest payment per recipient for all regions.

Figure 11

Medicaid Central Nervous System (CNS) Prescriptions Per Recipient, for 29 SMRF States Within U.S. Census Regions: 1998



Prescriptions Per Recipient for CNS Agents Showed Marked Variation Across Regions

- The Northeast region had the highest number of dispensed prescriptions per recipient for CNS agents and the South had the lowest. By State, New Jersey had the highest prescriptions per recipient for CNS agents at 14 prescriptions per recipient followed by New Hampshire at 13 prescriptions per recipient. Kansas had the lowest number of dispensed prescriptions per recipient for CNS agents at 4 prescriptions per recipient.
- By drug group (data not shown), anti-anxiety agents had the highest number of dispensed prescriptions per recipient in Kentucky; anti-depressants had the highest prescriptions per recipient in Pennsylvania; anti-psychotics had the highest prescriptions per recipient in New Hampshire; and hypnotics had the highest prescriptions per recipient in Kentucky.