

STATISTICAL COMPENDIUM: MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT IN 1999 MISSOURI

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TABLE 1
OVERVIEW OF BENEFICIARY SELECTION CRITERIA FOR STUDY POPULATION
MISSOURI, 1999

Inclusion Criteria (1999)	No. of Dual and Non-dual Eligible Benes (Cell)	No. of Dual Eligible Benes (Cell) ^g
1. Benes who were eligible for Medicaid during at least one month ^a	898,028 (A)	151,206 (E)
2. Benes who had Medicaid pharmacy benefits during at least one month ^b	885,610 (B)	139,483 (F)
3. Benes who had fee-for-service pharmacy benefit coverage during at least one month ^{c, d, e}	771,598 (C)	139,412 (G)
4. Benes who were all-year nursing facility residents ^f	23,705 (D)	22,188 (H)

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

- a. MAX data element "Eligible Months Count" was used to determine an individual's Medicaid eligibility. All individuals who had a value greater than zero were considered as beneficiaries and counted in Cell A.
- b. Counts in Cell B were obtained by excluding from Cell A beneficiaries who never had pharmacy benefit coverage during their Medicaid enrollment in 1999 (based on MAX data element "Eligible Restricted Benefits Flag"). Characteristics of beneficiaries represented by Cell B are shown in Appendix Table A.1.
- c. Cell C represents the study population for Tables 2 through 7D. Cell C was obtained by excluding from Cell B beneficiaries who were under MC plans during all months of Medicaid eligibility in 1999, because the MAX files would not include separate prescription drug claims for those beneficiaries. MC plans include HMOs, PHPs, or other MC organizations that provided pharmacy benefits under capitation arrangements. Beneficiaries included are those who were in fee-for-service, PCCM, or PHP plans in selected states. Beneficiaries in PHPs were included if they were in one of 18 states where no PHP in the state provided a pharmacy benefit (see footnote e). For all other states, beneficiaries in PHPs were excluded. For example, if a beneficiary was under fee-for-service, PCCM, or PHPs in one of the 18 states for three months of the year but enrolled in an MC plan for the remaining nine months, only the three months were counted toward the number of benefit months associated with the beneficiary. Therefore, benefit months included represent the benefit months with fee-for-service pharmacy benefits. Beneficiaries and their benefit months included and excluded based on this criterion are shown in Appendix Table A.2.
- d. The total Medicaid pharmacy reimbursement for Missouri in 1999 was \$508,078,061, of which \$866,892 was excluded from our analysis because those claims were made for beneficiaries who were outside the study population or took place during months that were excluded from the analysis.
- e. The 18 states where no PHP provided a pharmacy benefit in 1999 were AL, AR, CO, FL, GA, IA, IL, KY, MA, MI, MT, NE, NY, NC, OR, PA, UT, and WI. This list was constructed based on consultation with CMS staff and two CMS documents, which can be found at <http://www.cms.hhs.gov/medicaid/managedcare/mmcms699.asp> and at <http://www.cms.hhs.gov/medicaid/managedcare/mmcms99.asp>.
- f. Cell D represents the study population for Tables 8 through 10D. All-year nursing facility residents are the beneficiaries who resided in nursing facilities throughout their enrollment in 1999. These beneficiaries were identified by comparing the number of months during which the MAX files contained at least one claim from nursing facilities to the number of Medicaid eligible months. If the former is greater than or equal to the latter, the beneficiary was considered an all-year resident. If the former is less than the latter but not equal to zero, the beneficiary was considered a part-year resident. Part-year residents were excluded from the analysis because they are likely to be short-term residents and the level and pattern of their pharmacy benefit use may differ substantially from longer-term residents. The number of part-year residents and their benefit months are presented in footnotes to Tables 8 through 10D. Residents of mental hospitals for the aged, inpatient psychiatric facilities for individuals under age 21, or intermediate care facilities for the mentally retarded were excluded from the analysis.
- g. Pharmacy benefit use and reimbursement among full dual eligible beneficiaries are presented in Tables 11 through 18. To determine Medicaid-Medicare dual eligibility status, two MAX data elements ("Eligible Medicare Crossover Code -- Annual New Values" and "Eligible Restricted Benefits Flag") were used in combination. Beneficiaries represented in Cell G, the dual study population, include all dual eligible beneficiaries who had a fee-for-service pharmacy benefit at least during one month in 1999. All benefit months of such dual eligible beneficiaries, of which 3.5 percent were restricted benefit months without a pharmacy benefit in Missouri, were used in the dual tables. Characteristics of dual eligible beneficiaries represented by Cell F are shown in Appendix Table A.3, and characteristics of beneficiaries and their benefit months included in Cell F but excluded from Cell G are shown in Appendix Table A.4.
- Bene(s) = beneficiary (or beneficiaries); CMS = Center for Medicare and Medicaid Services; HMO = health maintenance organization; MAX = Medicaid Analytic Extract; MC = managed care; PCCM = primary care case management; PHP = prepaid health plan.

TABLE 2
 CHARACTERISTICS OF MEDICAID STUDY POPULATION BENEFICIARIES, BY BASIS OF ELIGIBILITY^{a, b}
 MISSOURI, 1999

Beneficiary Characteristics	No. of Beneficiaries							No. of Beneficiaries by Age Group											
	All	Aged	Disabled	Adults	Children	Other/Unknown	All	Aged	Disabled	Adults	Children	Other/Unknown	All	Aged	Disabled	Adults	Children	Other/Unknown	
All	771,598	92,858	125,996	154,647	398,097	0	6,313,422	940,699	1,290,778	956,144	3,125,801	0	6,313,422	940,699	1,290,778	956,144	3,125,801	0	
Age																			
5 and younger	152,119	0	802	10	151,307	0	1,144,814	0	7,358	18	1,137,438	0	1,144,814	0	7,358	18	1,137,438	0	
6-14	189,477	0	2,924	47	186,506	0	1,553,649	0	32,284	238	1,521,127	0	1,553,649	0	32,284	238	1,521,127	0	
15-20	84,763	0	4,349	20,249	60,165	0	631,887	0	44,222	121,254	466,411	0	631,887	0	44,222	121,254	466,411	0	
21-44	182,787	1	55,709	126,963	114	0	1,370,817	12	583,708	786,321	776	0	1,370,817	12	583,708	786,321	776	0	
45-64	69,418	3,208	58,870	7,339	1	0	677,160	34,871	594,234	48,053	2	0	677,160	34,871	594,234	48,053	2	0	
65-74	33,113	31,026	2,052	35	0	0	337,087	319,987	16,875	225	0	0	337,087	319,987	16,875	225	0	0	
75-84	32,648	31,744	900	4	0	0	330,473	322,082	8,356	35	0	0	330,473	322,082	8,356	35	0	0	
85 and older	27,271	26,879	390	0	2	0	267,512	263,747	3,741	0	24	0	267,512	263,747	3,741	0	24	0	
Unknown	2	0	0	0	2	0	23	0	0	0	23	0	23	0	0	0	23	0	
Gender																			
Female	457,960	68,421	66,612	128,145	194,782	0	3,732,989	705,466	692,398	803,430	1,531,695	0	3,732,989	705,466	692,398	803,430	1,531,695	0	
Male	313,638	24,437	59,384	26,502	203,315	0	2,580,433	235,233	598,380	152,714	1,594,106	0	2,580,433	235,233	598,380	152,714	1,594,106	0	
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Race																			
White	548,814	75,233	94,051	111,343	268,187	0	4,657,856	754,670	957,773	725,769	2,219,644	0	4,657,856	754,670	957,773	725,769	2,219,644	0	
African American	196,153	15,152	30,115	37,171	113,715	0	1,474,838	160,491	315,272	201,985	797,090	0	1,474,838	160,491	315,272	201,985	797,090	0	
Other/unknown	26,631	2,473	1,830	6,133	16,195	0	180,728	25,538	17,733	28,390	109,067	0	180,728	25,538	17,733	28,390	109,067	0	
Use of Nursing Facilities																			
All year	23,705	21,317	2,385	0	3	0	254,471	227,672	26,777	0	22	0	254,471	227,672	26,777	0	22	0	
Part year	15,481	13,120	2,345	5	11	0	140,581	117,318	23,123	43	97	0	140,581	117,318	23,123	43	97	0	
None	732,412	58,421	121,266	154,642	398,083	0	5,918,370	595,709	1,240,878	956,101	3,125,682	0	5,918,370	595,709	1,240,878	956,101	3,125,682	0	
Maintenance Assistance Status																			
Cash	250,930	21,030	58,734	61,926	109,240	0	2,099,725	241,244	645,977	406,983	805,521	0	2,099,725	241,244	645,977	406,983	805,521	0	
Medically needy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Poverty-related	237,643	4,179	3,585	21,447	208,432	0	1,885,955	32,786	35,455	89,738	1,727,976	0	1,885,955	32,786	35,455	89,738	1,727,976	0	
Other/unknown	283,025	67,649	63,677	71,274	80,425	0	2,327,742	666,669	609,346	459,423	592,304	0	2,327,742	666,669	609,346	459,423	592,304	0	
Dual Medicare Status^c																			
Full dual, all year	127,275	79,736	46,656	842	41	0	1,315,542	821,131	487,800	6,250	361	0	1,315,542	821,131	487,800	6,250	361	0	
Full dual, part year	12,137	5,902	6,166	69	0	0	119,578	53,878	64,950	750	0	0	119,578	53,878	64,950	750	0	0	
Non-dual, all year	632,186	7,220	73,174	153,736	398,056	0	4,878,302	65,690	738,028	949,144	3,125,440	0	4,878,302	65,690	738,028	949,144	3,125,440	0	
Managed Care Status																			
FFS all year	517,234	92,837	124,675	85,029	214,693	0	4,893,039	940,563	1,282,776	647,799	2,021,901	0	4,893,039	940,563	1,282,776	647,799	2,021,901	0	
FFS part year, with Rx claims	32,155	12	983	15,288	15,872	0	141,594	75	6,395	58,451	76,673	0	141,594	75	6,395	58,451	76,673	0	
FFS part year, no Rx claims	222,209	9	338	54,330	167,532	0	1,278,789	61	1,607	249,894	1,027,227	0	1,278,789	61	1,607	249,894	1,027,227	0	

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

Table 2

All Medicaid Beneficiaries

a. Table 2 includes the beneficiaries represented by Cell C of Table 1. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

b. Medicaid basis of eligibility is classified as: 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 children receiving foster care and adoptive services. The total includes some beneficiaries with unknown basis of eligibility and some whose age categories are not consistent with basis of eligibility.

c. The "Full dual, all year" group contains beneficiaries who had Medicare as well as Medicaid fee-for-service pharmacy benefits during all months of Medicaid enrollment in 1999. The "Full dual, part year" group contains beneficiaries who had such benefits for some, but not all, months of their enrollment. The "Non-dual, all year" group includes beneficiaries who were never dually eligible or dually eligible but never had Medicaid fee-for-service pharmacy benefits. Refer to footnote g of Table 1 for more information about how we determined dual eligibility status.

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; FFS = fee-for-service pharmacy benefit; MAX = Medicaid Analytic Extract; Rx = pharmacy benefit.

TABLE 3
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFICIARY, BY BENEFICIARY CHARACTERISTIC^{a,b}
 MISSOURI, 1999

Beneficiary Characteristics	% with at Least One Rx	Mean No. of Rx	Mean Rx \$	\$ per Rx	Mean \$, All Services	Rx \$ as % of All Services	Mean OTC Drug \$ ^c	No. of Benes
All	54.0 %	14.3	\$657	\$46	\$3,614	18.2 %	\$15	771,598
Age								
5 and younger	44.3	3.0	74	24	1,391	5.3	4	152,119
6-14	36.5	2.8	117	42	987	11.9	3	189,477
15-20	45.3	4.0	190	47	1,792	10.6	3	84,763
21-44	56.0	12.5	744	60	3,616	20.6	9	182,787
45-64	81.9	43.3	2,213	51	8,102	27.3	54	69,418
65-74	86.2	46.2	1,947	42	7,603	25.6	61	33,113
75-84	89.4	49.3	1,877	38	10,799	17.4	56	32,648
85 and older	90.3	46.4	1,549	33	15,034	10.3	46	27,271
Unknown	0.0	0.0	0	0	0	0.0	0	2
Basis of Eligibility								
Aged	89.0	48.1	1,840	38	11,028	16.7	56	92,858
Disabled	83.4	38.1	2,216	58	9,036	24.5	41	125,996
Adults	45.6	4.0	132	33	1,159	11.4	2	154,647
Children	39.8	2.9	92	32	1,122	8.2	3	398,097
Unknown	0.0	0.0	0	0	0	0.0	0	0
Gender								
Female	56.8	16.4	687	42	3,775	18.2	18	457,960
Male	49.9	11.2	615	55	3,378	18.2	11	313,638
Unknown	0.0	0.0	0	0	0	0.0	0	0
Race								
White	63.5	17.1	779	46	3,950	19.7	18	548,814
African American	29.6	7.6	373	49	2,927	12.7	11	196,153
Other/unknown	36.2	5.1	246	48	1,746	14.1	6	26,631
Use of Nursing Facilities								
Entire year	98.2	67.1	2,512	37	26,895	9.3	70	23,705
Part year	96.1	52.4	2,074	40	16,349	12.7	57	15,481
None	51.7	11.8	567	48	2,591	21.9	13	732,412
Maintenance Assistance Status								
Cash	52.3	15.7	744	47	3,340	22.3	17	250,930
Medically needy	0.0	0.0	0	0	0	0.0	0	0
Poverty related	44.3	3.8	137	36	1,104	12.4	4	237,643
Other/unknown	63.6	21.8	1,017	47	5,963	17.1	24	283,025

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

Table 3

All Medicaid Beneficiaries

a. Table 3 includes beneficiaries represented by Cell C of Table 1.

b. The Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

c. Information about OTC drugs appears in this column only. OTC drugs are not part of the reimbursement amount for prescription drugs.

Bene(s) = beneficiary (or beneficiaries); CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; OTC = over-the-counter; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 4
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH, BY BENEFICIARY CHARACTERISTIC^{a,b}
 MISSOURI, 1999

Beneficiary Characteristics	Mean No. of Rx	Mean Rx \$	Rx \$ as % of All Services	No. of Rx, % with:						Mean \$, All Services	Benes	Bene Mos
				None	More than 0, but 1 or Less	More than 1, but 2 or Less	More than 2, but 5 or Less	More than 5, but 10 or Less	More than 10			
All	1.7	\$80	18.2 %	46.0 %	30.5 %	5.9 %	9.2 %	6.5 %	1.9 %	\$442	771,598	6,313,422
Age												
5 and younger	0.4	10	5.3	55.7	39.3	3.7	1.2	0.1	0.0	185	152,119	1,144,814
6-14	0.3	14	11.9	63.5	31.7	2.8	1.8	0.2	0.0	120	189,477	1,553,649
15-20	0.5	25	10.6	54.7	36.8	4.8	3.0	0.6	0.1	240	84,763	631,887
21-44	1.7	99	20.6	44.0	32.8	7.5	9.5	4.8	1.3	482	182,787	1,370,817
45-64	4.4	227	27.3	18.1	17.3	10.6	25.1	21.1	7.7	831	69,418	677,160
65-74	4.5	191	25.6	13.8	15.6	10.6	28.2	24.4	7.5	747	33,113	337,087
75-84	4.9	185	17.4	10.6	12.4	10.1	31.1	28.3	7.5	1,067	32,648	330,473
85 and older	4.7	158	10.3	9.7	11.6	10.5	33.5	28.9	5.8	1,533	27,271	267,512
Unknown	0.0	0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0	2	23
Basis of Eligibility												
Aged	4.7	182	16.7	11.0	13.3	10.3	30.8	27.4	7.2	1,089	92,858	940,699
Disabled	3.7	216	24.5	16.6	23.8	11.7	24.2	17.7	5.9	882	125,996	1,290,778
Adults	0.6	21	11.4	54.4	35.4	5.4	3.8	0.8	0.1	187	154,647	956,144
Children	0.4	12	8.2	60.2	34.7	3.3	1.5	0.2	0.0	143	398,097	3,125,801
Unknown	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
Gender												
Female	2.0	84	18.2	43.2	30.5	6.2	10.2	7.6	2.3	463	457,960	3,732,989
Male	1.4	75	18.2	50.1	30.6	5.5	7.8	4.7	1.3	411	313,638	2,580,433
Unknown	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
Race												
White	2.0	92	19.7	36.5	36.0	6.7	10.6	7.8	2.4	465	548,814	4,657,856
African American	1.0	50	12.7	70.4	15.7	4.0	6.1	3.2	0.6	389	196,153	1,474,838
Other/unknown	0.8	36	14.1	63.8	26.2	3.9	4.0	1.7	0.4	257	26,631	180,728
Use of Nursing Facilities												
Entire year	6.2	234	9.3	1.8	6.8	7.5	31.3	39.7	13.0	2,505	23,705	254,471
Part year	5.8	228	12.7	3.9	9.7	10.0	34.0	31.9	10.5	1,800	15,481	140,581
None	1.5	70	21.9	48.3	31.7	5.8	8.0	4.8	1.3	321	732,412	5,918,370
Maintenance Assistance Status												
Cash	1.9	89	22.3	47.7	26.9	6.6	10.2	6.7	1.9	399	250,930	2,099,725
Medically needy	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
Poverty related	0.5	17	12.4	55.7	37.4	3.8	2.3	0.7	0.2	139	237,643	1,885,955
Other/unknown	2.7	124	17.1	36.4	27.9	7.1	14.2	11.1	3.3	725	283,025	2,327,742

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

Table 4

All Medicaid Beneficiaries

a. Table 4 includes the beneficiaries represented by Cell C of Table 1. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

b. The Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

c. Brand-name drugs, sometimes called "innovator single-source drugs," are drugs whose patents have not yet expired. Off-patent brand-name drugs, sometimes called "innovator multiple-source drugs," are brand-name drugs whose patents have expired. Generic drugs, sometimes called "non-innovator multiple-source drugs," are off-patent drugs manufactured and sold by companies other than the original patent holder. In Missouri, 5.2 percent of drug claims have missing values for brand status. Thus, the sum of the three groups in this table may be smaller than all combined. For information about this classification method, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 6
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT, BY BRAND STATUS AND THERAPEUTIC CATEGORY^{a, b, c, d}
 MISSOURI, 1999

Therapeutic Category	No. of Rx per Bene Mo among Users				\$ per Bene Mo among Users				Total Rx \$	Total No. of Rx	No.	As % of All Benes	No. of Bene Mos			
	Patented		Off-Patent		Patented		Off-Patent									
	Total	Brand-Name	Generic	Total	Brand-Name	Generic	Total	Brand-Name						Generic		
Anti-infective Agents	0.3	0.1	0.0	0.2	\$16	\$14	\$0	\$2	\$51	\$91	\$44	\$13	932,992	289,662	37.5 %	3,017,748
Biologics	0.1	0.1	0.0	0.0	18	13	1	4	138	115	1,312	250	17,636	12,875	1.7	137,642
Antineoplastic Agents	0.6	0.2	0.1	0.2	111	78	22	11	201	368	171	52	36,697	6,340	0.8	66,270
Endocrine/Metabolic Drugs	0.6	0.3	0.1	0.2	23	18	2	3	36	57	25	12	869,832	129,320	16.8	1,364,456
Cardiovascular Agents	1.5	0.5	0.3	0.7	47	25	13	9	32	52	39	13	1,986,608	207,498	26.9	2,200,681
Respiratory Agents	0.5	0.2	0.0	0.2	17	13	1	4	34	53	23	17	1,131,492	100,121	13.0	1,076,932
Gastrointestinal Agents	0.6	0.3	0.1	0.3	45	32	6	7	73	114	85	26	667,959	48,788,478	5.2	417,807
Genitourinary Agents	0.3	0.2	0.0	0.1	12	9	0	3	37	50	32	20	133,351	39,757	5.2	417,807
CNS Drugs	1.1	0.5	0.1	0.5	76	51	15	9	67	109	101	18	1,758,561	147,367	19.1	1,553,996
Stimulants/Anti-obesity/Anorexia	0.6	0.2	0.1	0.3	22	8	4	10	39	38	58	34	63,993	10,561	1.4	112,044
Miscellaneous Psychological/Neurological Agents	0.6	0.5	0.0	0.1	64	60	0	4	102	124	34	26	34,145	5,198	0.7	54,929
Analgesics and Anesthetics	0.6	0.1	0.1	0.4	22	13	4	6	39	87	72	15	1,049,991	171,159	22.2	1,810,929
Neuromuscular Agents	0.8	0.3	0.1	0.4	40	26	5	10	49	92	41	22	686,314	77,122	10.0	832,412
Nutritional Products	0.5	0.0	0.2	0.3	9	0	4	4	20	22	25	16	348,671	76,164	9.9	764,439
Hematological Agents	0.7	0.1	0.3	0.3	54	34	10	10	75	291	36	30	267,177	35,245	4.6	371,325
Topical Products	0.3	0.1	0.0	0.1	8	5	1	2	28	48	33	13	463,932	154,391	20.0	1,659,547
Miscellaneous Products	0.4	0.1	0.1	0.2	51	27	17	6	136	291	253	29	33,888	8,905	1.2	90,699
Unknown Therapeutic Category	0.4	0.0	0.0	0.0	15	0	0	0	39	0	0	0	540,219	132,545	17.2	1,437,715
TOTAL NO. OF RX AND RX \$	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	11,023,458	n.a.	n.a.	n.a.

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

- a. Table 6 includes the beneficiaries represented by Cell C of Table 1. A user is a beneficiary who had at least one prescription filled in a given therapeutic category during 1999. A beneficiary who used drugs from two or more categories was counted as a user for each category. Therefore, the sum of users across categories may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.
- b. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.
- c. For information about these therapeutic categories, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).
- d. Brand-name drugs, sometimes called "innovator single-source drugs," are drugs whose patents have not yet expired. Off-patent brand-name drugs, sometimes called "innovator multiple-source drugs," are brand-name drugs whose patents have expired. Generic drugs, sometimes called "non-innovator multiple-source drugs," are off-patent drugs manufactured and sold by companies other than the original patent holder. In Missouri, 5.2 percent of drug claims have missing values for brand status. Thus, the sum of the three groups in this table may be smaller than all prescriptions combined. For information about this classification method, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; CNS = Central Nervous System; MAX = Medicaid Analytic Extract; n.a. = not applicable; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 7
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT, BY TOP 10 DRUG GROUP^{a, b, c}
 MISSOURI, 1999

Top 10 Drug Groups	Users				Among Users		
	Total Medicaid Rx \$	No. As % of All Benes	No. of Bene Mos	No. of Rx per Bene Mo	\$ per Rx	Rx \$ per Bene Mo	
ANTIPSYCHOTICS	\$56,954,757	64.920	711,370	0.7	\$122	\$80	
ANTIDEPRESSANTS	44,775,110	17.5	1,447,652	0.5	59	31	
ULCER DRUGS	40,469,268	13.0	1,097,617	0.4	84	37	
ANTICONVULSANT	26,371,170	7.0	591,711	0.7	60	45	
ANTIASTHMATIC	19,381,308	16.3	1,352,174	0.4	38	14	
ANALGESICS - ANTI-INFLAMMATORY	18,792,120	16.0	1,358,073	0.3	49	14	
ANALGESICS - Narcotic	18,339,030	21.4	1,771,674	0.3	31	10	
ANTIHYPERTENSIVE	17,940,080	7.7	810,529	0.6	35	22	
ANTIDIABETIC	17,082,240	7.2	603,694	0.7	42	28	
ANTIVIRAL	15,725,078	2.1	177,534	0.3	281	89	

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

- a. Table 7 includes the beneficiaries represented by Cell C of Table 1. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.
- b. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.
- c. The top 10 drug groups were determined based on total Medicaid reimbursement in the state for 1999. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).
- Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 7A
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH FOR TOP 10 DRUG GROUPS COMBINED
 AND FIRST AND SECOND GROUPS SEPARATELY, BY SEX, BOE, AND AGE^{a,b,c}
 MISSOURI, 1999

Beneficiary Characteristics	All Top 10 Drug Groups					ANTIPSYCHOTICS					ANTIDEPRESSANTS				
	No. of Rx	Rx \$	No. of Users	Users as % of All Benes	Mean No. of Rx	No. of Users	Users as % of All Benes	Mean No. of Rx	Mean Rx \$	No. of Users	Users as % of All Benes	Mean No. of Rx	Mean Rx \$		
All	4,608,084	\$275,830,161	64,920	8.4 %	0.7	711,370	17.5 %	0.5	\$80	134,934	17.5 %	1,447,652	\$31		
Female	3,026,347	167,012,831	37,600	8.2	0.6	412,864	20.4	0.5	68	93,205	20.4	1,003,385	31		
Disabled	1,391,382	89,941,663	19,461	29.2	0.7	219,900	66.4	0.5	88	44,213	66.4	491,083	35		
5 and younger	1,517	86,004	0	0.0	0.0	0	1.1	0.4	0	4	1.1	48	25		
6-14	7,579	514,111	106	9.8	0.5	1,224	13.6	0.5	57	147	13.6	1,697	28		
15-20	14,423	1,005,994	368	21.1	0.6	4,162	31.4	0.4	61	548	31.4	6,126	29		
21-44	486,190	34,112,007	9,520	35.2	0.7	107,670	69.7	0.5	88	18,855	69.7	209,876	34		
45-64	851,107	52,630,587	9,219	26.9	0.7	104,345	70.0	0.6	90	24,025	70.0	266,849	35		
65-74	18,086	980,090	159	13.3	0.5	1,611	33.5	0.5	43	400	33.5	4,010	27		
75-84	9,138	459,001	56	9.3	0.5	602	30.6	0.5	41	184	30.6	1,954	26		
85 and older	3,342	153,869	33	11.7	0.5	286	17.8	0.6	28	50	17.8	523	24		
Other Eligibles	1,634,965	77,071,168	18,139	4.6	0.5	192,964	12.5	0.5	45	48,992	12.5	512,302	28		
5 and younger	25,417	583,742	137	0.2	0.2	1,588	0.2	0.3	11	141	0.2	1,609	9		
6-14	49,965	1,921,704	819	0.9	0.4	8,755	2.7	0.4	32	2,450	2.7	26,660	18		
15-20	50,183	1,896,680	1,086	2.2	0.3	10,745	6.9	0.3	21	3,378	6.9	34,634	18		
21-44	160,048	6,560,399	1,942	1.9	0.2	18,547	12.2	0.3	15	12,742	12.2	122,429	19		
45-64	67,304	3,565,997	492	7.5	0.6	5,566	28.7	0.5	60	1,883	28.7	19,939	30		
65-74	449,013	23,331,622	3,693	17.9	0.7	41,360	42.6	0.6	72	8,787	42.6	97,965	31		
75-84	475,845	23,099,728	4,955	21.0	0.6	53,424	43.2	0.7	51	10,224	43.2	110,421	33		
85 and older	357,190	16,111,296	5,015	22.7	0.5	52,979	42.5	0.7	35	9,387	42.5	98,645	35		
Male	1,581,737	108,817,330	27,320	8.7	0.7	298,506	13.3	0.5	97	41,729	13.3	444,267	31		
Disabled	975,627	80,358,931	18,459	31.1	0.8	207,040	41.3	0.5	118	24,522	41.3	268,621	34		
5 and younger	1,833	89,566	13	2.9	0.4	148	3.4	0.4	30	15	3.4	178	12		
6-14	15,760	1,043,737	401	21.7	0.6	4,604	24.6	0.5	70	454	24.6	5,254	25		
15-20	19,690	1,630,478	648	24.9	0.6	7,247	25.9	0.5	91	674	25.9	7,459	32		
21-44	455,545	44,204,766	11,009	38.4	0.8	124,253	44.6	0.5	125	12,772	44.6	141,243	35		
45-64	468,753	32,613,837	6,270	25.5	0.8	69,626	42.2	0.5	113	10,366	42.2	112,119	33		
65-74	9,481	536,885	76	8.8	0.6	711	21.4	0.5	47	184	21.4	1,747	27		
75-84	3,381	176,294	23	7.7	0.5	236	13.8	0.6	36	41	13.8	440	19		
85 and older	1,184	63,368	19	17.4	0.6	215	14.7	0.7	39	16	14.7	181	44		
Other Eligibles	606,110	28,458,399	8,861	3.5	0.6	91,466	6.8	0.5	50	17,207	6.8	175,646	26		
5 and younger	35,396	830,392	194	0.3	0.3	2,127	0.4	0.3	18	285	0.4	3,209	10		
6-14	84,480	3,626,758	2,095	2.2	0.5	22,146	4.7	0.4	41	4,504	4.7	48,130	20		
15-20	38,883	1,979,867	1,165	3.7	0.5	11,383	6.9	0.4	52	2,156	6.9	21,116	24		
21-44	30,440	1,349,008	317	1.4	0.3	2,741	8.1	0.3	28	1,845	8.1	16,342	17		
45-64	33,219	1,831,793	264	6.6	0.7	2,962	19.6	0.5	72	784	19.6	8,062	27		
65-74	176,247	9,070,123	1,835	17.6	0.7	19,809	28.7	0.6	70	2,990	28.7	31,870	31		
75-84	137,601	6,611,908	1,860	22.9	0.6	19,048	35.4	0.6	51	2,870	35.4	29,320	34		
85 and older	69,844	3,158,550	1,131	23.6	0.5	11,250	37.0	0.7	33	1,773	37.0	17,597	34		
Unknown	0	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0	0		

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table 7A includes the beneficiaries represented by Cell C of Table 1. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

b. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

c. The top 10 drug groups were determined based on total Medicaid reimbursement in the state for 1999. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mdmb.asp (May 13 2003).

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); BOE = basis of eligibility; CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 7B
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH FOR THIRD TO FIFTH TOP DRUG GROUPS SEPARATELY,
 BY SEX, BOE, AND AGE^{a, b, c}
 MISSOURI, 1999

Beneficiary Characteristics	ULCER DRUGS					ANTICONVULSANT					ANTIASTHMATIC				
	No. of Users	Users as % of All Benes	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$	No. of Users	Users as % of All Benes	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$	No. of Users	Users as % of All Benes	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$
All	100,591	13.0 %	1,097,617	0.4	\$37	54,020	7.0 %	591,711	0.7	\$45	125,668	16.3 %	1,352,174	0.4	\$14
Female	69,740	15.2	766,233	0.4	37	30,953	6.8	339,814	0.7	41	78,273	17.1	847,634	0.4	15
Disabled	28,021	42.1	315,743	0.4	38	19,031	28.6	213,433	0.7	48	30,186	45.3	337,881	0.4	18
5 and younger	51	14.3	570	0.4	28	55	15.4	608	0.7	58	140	39.2	1,531	0.4	20
6-14	97	9.0	1,126	0.4	35	317	29.4	3,673	0.8	68	321	29.7	3,757	0.4	16
15-20	298	17.1	3,430	0.3	33	480	27.5	5,352	0.8	57	375	21.5	4,273	0.3	13
21-44	9,295	34.4	105,517	0.4	33	9,435	34.9	105,974	0.7	51	9,676	35.8	109,460	0.4	13
45-64	17,444	50.8	196,356	0.4	41	8,510	24.8	95,370	0.7	44	18,882	55.0	210,766	0.5	20
65-74	480	40.2	4,900	0.4	41	159	13.3	1,646	0.7	36	526	44.1	5,163	0.5	22
75-84	243	40.4	2,641	0.5	42	58	9.6	648	0.7	27	195	32.4	2,133	0.5	19
85 and older	113	40.2	1,203	0.5	41	17	6.0	162	0.6	15	71	25.3	798	0.4	17
Other Eligibles	41,179	10.7	450,490	0.5	36	11,922	3.0	126,381	0.7	29	48,087	12.3	509,753	0.4	13
5 and younger	1,080	1.5	10,072	0.2	7	200	0.3	2,138	0.6	32	7,071	9.6	74,538	0.2	4
6-14	1,584	1.7	17,728	0.2	9	856	0.9	9,075	0.6	34	5,498	6.0	59,688	0.2	8
15-20	2,272	4.6	24,237	0.2	10	688	1.4	6,954	0.5	32	3,449	7.0	35,141	0.2	7
21-44	6,027	5.8	59,442	0.2	17	1,832	1.8	17,541	0.4	21	7,256	7.0	69,566	0.2	6
45-64	1,572	24.0	17,252	0.4	38	453	6.9	5,037	0.7	34	1,664	25.4	18,063	0.4	18
65-74	9,648	46.8	108,873	0.5	42	2,953	14.3	32,963	0.8	35	9,622	46.6	107,180	0.5	21
75-84	10,707	45.3	118,418	0.5	43	2,972	12.6	31,959	0.8	29	7,907	33.4	86,007	0.5	18
85 and older	8,829	40.0	94,468	0.6	44	1,968	8.9	20,714	0.8	25	5,620	25.4	59,570	0.4	13
Male	30,851	9.8	331,384	0.4	37	23,067	7.4	251,897	0.8	49	47,395	15.1	504,540	0.4	14
Disabled	16,624	28.0	183,261	0.4	41	16,357	27.5	182,884	0.8	55	15,521	26.1	169,321	0.5	19
5 and younger	58	13.0	605	0.5	35	74	16.6	828	0.7	40	160	36.0	1,777	0.4	15
6-14	141	7.6	1,630	0.4	42	504	27.3	5,833	0.8	53	543	29.4	6,283	0.4	15
15-20	207	8.0	2,327	0.3	30	670	25.7	7,459	0.8	65	427	16.4	4,720	0.4	14
21-44	6,826	23.8	76,624	0.4	38	9,246	32.3	103,972	0.8	59	4,629	16.1	51,759	0.4	13
45-64	8,978	36.6	97,943	0.5	43	5,757	23.4	63,719	0.8	49	9,304	37.9	100,296	0.5	22
65-74	272	31.7	2,598	0.5	43	90	10.5	909	0.7	34	297	34.6	2,811	0.5	24
75-84	108	36.2	1,179	0.5	43	14	4.7	140	0.6	24	113	37.9	1,201	0.5	20
85 and older	34	31.2	355	0.4	43	2	1.8	24	1.5	53	48	44.0	474	0.4	16
Other Eligibles	14,227	5.6	148,123	0.4	33	6,710	2.6	69,013	0.7	32	31,874	12.5	335,219	0.3	12
5 and younger	1,192	1.5	11,327	0.2	7	252	0.3	2,753	0.5	20	10,222	13.2	107,251	0.2	5
6-14	1,322	1.4	14,818	0.2	9	1,521	1.6	16,117	0.6	30	7,596	8.0	82,561	0.2	9
15-20	867	2.8	9,236	0.2	13	959	3.0	9,442	0.7	41	1,854	5.9	19,094	0.3	9
21-44	1,307	5.7	11,713	0.3	25	463	2.0	3,958	0.4	24	866	3.8	7,843	0.2	7
45-64	800	20.0	8,545	0.5	42	314	7.9	3,313	0.8	39	870	21.8	9,507	0.5	20
65-74	3,862	37.0	41,632	0.5	41	1,576	15.1	16,977	0.8	35	5,010	48.0	53,106	0.6	22
75-84	3,101	38.3	32,631	0.5	43	1,132	14.0	11,560	0.8	30	3,743	46.2	38,858	0.6	21
85 and older	1,776	37.1	18,221	0.6	44	493	10.3	4,893	0.8	26	1,713	35.7	16,999	0.5	17
Unknown	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0

Table 7B
 All Medicaid Beneficiaries

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

- a. Table 7B includes the beneficiaries represented by Cell C of Table 1. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.
- b. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.
- c. The top 10 drug groups were determined based on total Medicaid reimbursement in the state for 1999. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); BOE = basis of eligibility; CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 7C
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER SIXTH TO EIGHTH TOP DRUG GROUPS SEPARATELY,
 BY SEX, BOE, AND AGE^{a, b, c}
 MISSOURI, 1999

Beneficiary Characteristics	ANALGESICS - ANTI-INFLAMMATORY				ANALGESICS - Narcotic				ANTIHYPERTENSIVE						
	No. of Users	Users as % of All Benes	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$	No. of Users	Users as % of All Benes	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$	No. of Users	Users as % of All Benes	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$
All	123,604	16.0 %	1,358,073	0.3	\$14	164,963	21.4 %	1,771,674	0.3	\$10	75,197	9.7 %	810,529	0.6	\$22
Female	86,589	18.9	953,974	0.3	15	115,725	25.3	1,249,296	0.3	10	48,948	10.7	531,842	0.6	22
Disabled	32,742	49.2	370,681	0.3	18	45,864	68.9	511,717	0.4	13	16,663	25.0	183,492	0.6	22
5 and younger	30	8.4	351	0.2	3	27	7.6	318	0.1	1	12	3.4	135	0.7	15
6-14	129	11.9	1,482	0.2	11	115	10.6	1,335	0.2	2	81	7.5	953	0.6	15
15-20	389	22.3	4,403	0.2	7	468	26.8	5,323	0.2	4	60	3.4	669	0.7	17
21-44	12,200	45.1	138,982	0.3	12	18,966	70.1	213,330	0.3	12	3,252	12.0	36,543	0.5	18
45-64	19,237	56.1	217,299	0.4	22	25,344	73.9	281,957	0.4	14	12,318	35.9	135,588	0.6	23
65-74	478	40.1	5,016	0.4	24	562	47.1	5,463	0.4	12	530	44.4	5,246	0.6	23
75-84	199	33.1	2,258	0.4	25	260	43.2	2,763	0.3	8	307	51.0	3,245	0.6	24
85 and older	80	28.5	890	0.3	16	122	43.4	1,228	0.3	11	103	36.7	1,113	0.7	27
Other Eligibles	53,847	13.8	583,293	0.3	13	69,861	17.9	737,579	0.3	7	32,285	8.2	348,350	0.7	23
5 and younger	3,904	5.3	43,288	0.1	1	1,268	1.7	14,086	0.1	1	106	0.1	1,151	0.5	7
6-14	4,392	4.8	49,123	0.1	2	3,086	3.4	34,486	0.1	1	589	0.6	6,414	0.5	8
15-20	5,531	11.3	58,406	0.1	2	7,077	14.5	73,977	0.1	1	151	0.3	1,555	0.4	7
21-44	13,518	13.0	133,249	0.2	5	22,745	21.8	224,801	0.2	3	1,269	1.2	11,816	0.4	12
45-64	2,042	31.1	22,100	0.3	19	2,276	34.7	24,524	0.4	11	1,323	20.2	14,340	0.6	23
65-74	9,580	46.4	109,932	0.4	23	11,589	56.2	129,511	0.4	11	9,777	47.4	108,256	0.6	24
75-84	9,029	38.2	102,569	0.4	23	12,059	51.0	132,787	0.4	13	11,012	46.6	120,210	0.7	24
85 and older	5,851	26.5	64,626	0.4	22	9,761	44.2	103,407	0.4	11	8,058	36.5	84,608	0.7	23
Male	37,015	11.8	404,099	0.3	11	49,238	15.7	522,378	0.3	12	26,249	8.4	278,687	0.6	22
Disabled	17,026	28.7	189,688	0.3	14	27,740	46.7	300,907	0.4	16	12,989	21.9	140,495	0.6	22
5 and younger	26	5.8	295	0.1	1	38	8.5	432	0.1	1	20	4.5	218	0.6	11
6-14	152	8.2	1,789	0.2	2	164	8.9	1,927	0.1	2	284	15.4	3,284	0.7	14
15-20	359	13.8	4,060	0.2	5	451	17.3	5,031	0.2	7	149	5.7	1,677	0.6	13
21-44	7,723	26.9	86,835	0.3	11	13,281	46.3	146,164	0.4	16	3,894	13.6	43,182	0.5	20
45-64	8,467	34.5	93,591	0.4	18	13,333	54.3	142,747	0.4	17	8,176	33.3	87,388	0.6	24
65-74	198	23.1	2,036	0.4	20	343	39.9	3,297	0.4	11	318	37.0	3,130	0.6	25
75-84	83	27.9	883	0.4	21	99	33.2	1,003	0.4	10	107	35.9	1,145	0.6	22
85 and older	18	16.5	199	0.4	20	31	28.4	306	0.3	16	41	37.6	471	0.7	24
Other Eligibles	19,989	7.9	214,411	0.2	8	21,498	8.5	221,471	0.3	6	13,260	5.2	138,192	0.6	21
5 and younger	4,280	5.5	47,292	0.1	1	1,703	2.2	18,686	0.1	1	265	0.3	2,923	0.5	7
6-14	3,760	4.0	42,302	0.1	1	3,061	3.2	34,020	0.1	1	1,972	2.1	21,152	0.6	10
15-20	2,613	8.3	27,656	0.1	2	2,509	8.0	26,450	0.1	2	373	1.2	3,776	0.6	12
21-44	2,473	10.8	22,290	0.2	7	3,962	17.4	35,470	0.3	6	510	2.2	4,482	0.4	14
45-64	928	23.3	9,729	0.3	18	1,145	28.7	11,876	0.4	12	799	20.0	8,456	0.6	23
65-74	2,950	28.3	32,952	0.4	19	4,404	42.2	46,813	0.4	11	4,174	40.0	44,423	0.6	25
75-84	1,980	24.4	21,551	0.4	21	2,940	36.3	30,362	0.4	10	3,455	42.6	35,854	0.7	24
85 and older	1,005	21.0	10,639	0.4	20	1,774	37.0	17,794	0.4	9	1,712	35.7	17,126	0.7	23
Unknown	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0

Table 7C
 All Medicaid Beneficiaries

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

- a. Table 7C includes the beneficiaries represented by Cell C of Table 1. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.
 - b. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.
 - c. The top 10 drug groups were determined based on total Medicaid reimbursement in the state for 1999. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).
- Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); BOE = basis of eligibility; CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 7D
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH FOR NINTH AND TENTH TOP DRUG GROUPS
 SEPARATELY, BY SEX, BOE, AND AGE^{a, b, c}
 MISSOURI, 1999

Beneficiary Characteristics	ANTIDIABETIC				ANTIVIRAL				Mean Rx \$	Mean No. of Rx	Users as % of All Benes	No. of Mos among Users	No. of Bene	Mean Rx \$	Mean No. of Rx	Users as % of All Benes	No. of Mos among Users	No. of Bene
	No. of Users	Users as % of All Benes	No. of Bene Mos among Users	Mean Rx \$	Mean No. of Rx	Users as % of All Benes	No. of Mos among Users	Mean Rx \$										
All	55,806	7.2 %	603,694	0.7	\$28	16,301	2.1 %	177,534	0.3	\$89	771,598	6,313,422						
Female																		
Disabled																		
5 and younger	2	0.6	24	0.1	6	5	1.4	60	0.1	4	357	3,271						
6-14	3	0.3	36	1.2	272	10	0.9	116	0.2	42	1,080	11,928						
15-20	31	1.8	357	1.0	46	58	3.3	621	0.2	46	1,747	17,922						
21-44	3,428	12.7	38,652	0.6	27	1,458	5.4	16,402	0.3	80	27,041	287,538						
45-64	12,739	37.1	140,751	0.7	33	1,361	4.0	15,416	0.2	58	34,311	352,990						
65-74	393	32.9	3,842	0.7	27	20	1.7	200	0.3	102	1,193	10,271						
75-84	189	31.4	1,971	0.7	29	14	2.3	164	0.1	4	602	5,771						
85 and older	58	20.6	605	0.6	18	5	1.8	56	0.1	4	281	2,707						
Other Eligibles																		
5 and younger	23,099	5.9	250,157	0.7	26	5,086	1.3	54,425	0.1	13	391,347	3,040,579						
6-14	16	0.0	156	0.7	24	529	0.7	5,885	0.1	5	73,800	553,993						
15-20	104	0.1	1,119	0.8	28	595	0.7	6,633	0.1	6	91,412	745,754						
21-44	153	0.3	1,524	0.8	33	551	1.1	5,760	0.1	7	48,941	348,559						
45-64	1,093	1.0	9,582	0.5	20	1,297	1.2	12,595	0.2	30	104,276	657,394						
65-74	1,252	19.1	13,806	0.7	31	132	2.0	1,376	0.2	31	6,557	52,003						
75-84	8,525	41.3	94,927	0.7	30	501	2.4	5,723	0.1	10	20,629	217,566						
85 and older	7,865	33.3	85,895	0.7	25	692	2.9	7,785	0.1	9	23,643	245,413						
	4,091	18.5	43,148	0.7	20	789	3.6	8,668	0.1	6	22,089	219,897						
Male																		
Disabled																		
5 and younger	15,864	5.1	167,299	0.7	28	8,284	2.6	90,074	0.4	142	313,637	2,580,422						
6-14	8,819	14.9	94,677	0.7	30	6,135	10.3	67,098	0.5	186	59,384	598,380						
15-20	1	0.2	6	0.2	4	5	1.1	60	0.1	3	445	4,087						
21-44	13	0.7	156	0.6	24	39	2.1	468	0.5	129	1,844	20,356						
45-64	41	1.6	462	0.7	30	33	1.3	378	0.2	58	2,602	26,300						
65-74	2,372	8.3	26,075	0.7	29	4,357	15.2	47,545	0.6	193	28,668	296,170						
75-84	6,145	25.0	65,589	0.7	31	1,662	6.8	18,229	0.5	173	24,559	241,244						
85 and older	179	20.8	1,662	0.6	35	23	2.7	235	0.6	155	859	6,604						
Other Eligibles																		
5 and younger	56	18.8	601	0.6	25	11	3.7	123	0.4	98	298	2,585						
6-14	12	11.0	126	0.5	21	5	4.6	60	0.1	3	109	1,034						
15-20	7,045	2.8	72,622	0.7	25	2,149	0.8	22,976	0.1	14	254,253	1,982,042						
21-44	30	0.0	297	0.7	39	605	0.8	6,671	0.1	4	77,517	583,463						
45-64	132	0.1	1,398	0.7	27	507	0.5	5,651	0.1	12	95,141	775,611						
65-74	101	0.3	1,003	0.9	33	272	0.9	2,732	0.1	6	31,473	239,106						
75-84	329	1.4	2,746	0.5	22	165	0.7	1,453	0.2	42	22,802	129,715						
85 and older	514	12.9	5,318	0.7	29	58	1.5	555	0.3	92	3,991	30,923						
Other Eligibles																		
5 and younger	2,917	28.0	31,168	0.7	28	22	2.1	2,447	0.2	29	10,432	102,646						
6-14	2,091	25.8	21,291	0.7	22	186	2.3	2,045	0.1	5	8,105	76,704						
15-20	931	19.4	9,401	0.7	20	134	2.8	1,422	0.1	8	4,792	43,874						
21-44	0	0.0	0	0.0	0	0	0.0	0	0.0	0	2	23						
45-64																		
65-74																		
75-84																		
85 and older																		
Unknown																		

Table 7D

All Medicaid Beneficiaries

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

- a. Table 7D includes the beneficiaries represented by Cell C of Table 1. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.
- b. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.
- c. The top 10 drug groups were determined based on total Medicaid reimbursement in the state for 1999. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); BOE = basis of eligibility; CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; Rx = prescription(s) or pharmacy; \$ = Medicaid reimbursement.

TABLE 8
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT FOR ALL-YEAR NURSING FACILITY RESIDENTS,
 BY BENEFICIARY CHARACTERISTIC^{a, b}
 MISSOURI, 1999

Beneficiary Characteristics	Rx \$ per Bene Mo	No. of Rx per Bene Mo	No. of All-Year NF Residents	Bene Mos among All-Year NF Residents
All	\$234	6.2	23,705	254,471
Age				
0-64	349	7.3	2,485	28,128
65-74	287	7.1	2,994	32,615
75-84	243	6.5	7,250	76,914
85 and older	186	5.6	10,976	116,814
Unknown	0	0.0	0	0
Gender				
Female	225	6.2	17,588	190,283
Male	261	6.4	6,117	64,188
Unknown	0	0.0	0	0
Race				
White	238	6.4	20,593	219,845
African American	212	5.3	2,909	32,616
Other/unknown	215	6	203	2,010
Basis of Eligibility				
Aged	221	6.1	21,317	227,672
Disabled	346	7.3	2,385	26,777
Adults	0	0.0	0	0
Children	862	11.3	3	22
Unknown	0	0.0	0	0

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table 8 includes the beneficiaries represented by Cell D of Table 1, those who resided in nursing facilities throughout their 1999 Medicaid enrollment. A total of 15,481 beneficiaries who were in nursing facilities for part of their enrollment and their 140,581 benefit months were excluded from the analysis. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

b. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; NF = nursing facility; Rx = prescription(s) or pharmacy; \$ = Medicaid reimbursement.

TABLE 9
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT FOR ALL-YEAR NURSING FACILITY RESIDENTS,
 BY BRAND STATUS AND THERAPEUTIC CATEGORY^{a, b, c, d, e}
 MISSOURI, 1999

Therapeutic Category	No. of Rx per Bene Mo among Users			\$ per Bene Mo among Users			Total # of Rx			Total Rx \$			Users				
	Total	Patented Brand-Name	Off-Patent Brand-Name	Total	Patented Brand-Name	Off-Patent Brand-Name	Total	Patented Brand-Name	Off-Patent Brand-Name	Generic	Total	Patented Brand-Name	Off-Patent Brand-Name	Generic	No.	As % of All-Year NF Residents	No. of Bene Mos
Anti-infective Agents	0.4	0.2	0.0	0.2	\$16	\$14	\$0	\$2	\$46	\$72	\$38	\$15	67,512	\$3,103,636	17,087	72.1 %	189,776
Biologicals	0.1	0.1	0.0	0.0	1	1	0	1	12	9	0	23	1,473	18,224	1,369	5.8	15,533
Antineoplastic Agents	0.6	0.1	0.2	0.2	59	27	23	10	106	205	123	40	5,603	594,140	918	3.9	10,012
Endocrine/Metabolic Drugs	1.1	0.4	0.1	0.5	24	17	2	5	23	41	13	11	110,682	2,496,784	9,584	40.4	104,931
Cardiovascular Agents	1.9	0.5	0.5	1.0	43	18	13	12	23	39	28	12	345,630	7,802,022	16,837	71.0	182,405
Respiratory Agents	0.7	0.3	0.0	0.4	20	12	1	8	30	46	29	20	84,637	2,532,151	11,202	47.3	124,417
Gastrointestinal Agents	1.0	0.4	0.1	0.5	54	35	7	13	55	93	70	25	127,911	7,054,677	11,742	49.5	129,790
Genitourinary Agents	0.6	0.3	0.0	0.3	20	14	0	6	36	55	35	20	28,360	1,018,447	4,521	19.1	50,559
CNS Drugs	1.6	0.8	0.2	0.6	94	70	15	9	60	86	83	16	284,722	17,029,414	16,537	69.8	180,613
Stimulants/Anti-obesity/Anorexia	0.6	0.0	0.4	0.1	34	4	29	2	55	121	64	11	163	8,961	23	0.1	263
Miscellaneous Psychological/Neurological Agents	0.8	0.7	0.0	0.0	85	84	0	1	110	114	0	37	12,750	1,407,509	1,570	6.6	16,570
Analgesics and Anesthetics	0.8	0.2	0.1	0.5	29	17	4	7	34	70	60	13	101,996	3,459,657	10,973	46.3	120,374
Neuromuscular Agents	1.3	0.3	0.2	0.7	53	26	12	15	42	75	46	23	108,893	4,582,398	7,815	33.0	87,096
Nutritional Products	0.8	0.0	0.3	0.4	14	0	7	7	18	17	23	15	79,873	1,453,493	9,711	41.0	106,312
Hematological Agents	1.0	0.1	0.4	0.6	29	11	8	10	29	126	22	18	71,673	2,055,377	6,551	27.6	71,199
Topical Products	0.5	0.2	0.1	0.2	15	9	3	3	30	49	33	12	78,318	2,332,625	13,886	58.6	155,991
Miscellaneous Products	0.3	0.0	0.0	0.2	8	2	1	5	29	77	204	20	4,471	128,152	1,464	6.2	16,012
Unknown Therapeutic Category	0.5	0.0	0.0	0.0	17	0	0	0	33	0	0	0	75,401	2,468,567	12,624	53.3	141,954
TOTAL NO. OF RX AND RX \$	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,590,068	59,546,234	n.a.	n.a.	n.a.

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table 9 includes the beneficiaries represented by Cell D of Table 1, those who resided in nursing facilities throughout their Medicaid enrollment in 1999. A total of 15,481 beneficiaries who were in nursing facilities for part of their enrollment and their 140,581 benefit months were excluded from the analysis.

b. A user is a beneficiary who had at least one prescription filled in a given therapeutic category during 1999. A beneficiary who used drugs from two or more categories was counted as a user for each category. Therefore, the sum of users across categories may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

c. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

d. For information about these therapeutic categories, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

e. Brand-name drugs, sometimes called "innovator single-source drugs," are drugs whose patents have not yet expired. Off-patent brand-name drugs, sometimes called "innovator multiple-source drugs," are brand-name drugs whose patents have expired. Generic drugs, sometimes called "non-innovator multiple-source drugs," are off-patent drugs manufactured and sold by companies other than the original patent holder. For information about this classification method, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

In Missouri, 5.2 percent of drug claims have missing values for brand status. Thus, the sum of the three groups in this table may be smaller than all prescriptions combined.

Table 9

All Medicaid Beneficiaries

Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; CNS = Central Nervous System; MAX = Medicaid Analytic Extract; n.a. = not applicable; NF = nursing facility; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 10
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT FOR TOP 10 DRUG GROUPS AMONG ALL-YEAR NURSING FACILITY RESIDENTS,
 BY TOP-10 DRUG GROUP^{a, b, c, d}
 MISSOURI, 1999

Top 10 Drug Groups in Nursing Facilities	Users				Among Users		
	Total Medicaid Rx \$	No. of Users	As % of All-Year NF Residents	No. of Bene Mos	No. of Rx per Bene Mo	\$ per Rx	Rx \$ per Bene Mo
ANTIPSYCHOTICS	\$7,444,200	10,284	43.4 %	114,412	0.7	\$93	\$65
ANTIDEPRESSANTS	7,240,623	15,160	64.0	166,933	0.8	54	43
ULCER DRUGS	5,796,500	10,421	44.0	115,595	0.7	69	50
ANTICONVULSANT	2,973,075	6,068	25.6	68,417	1.0	43	43
ANTIHYPERTENSIVE	2,425,110	8,609	36.3	93,336	0.8	31	26
ANTIANKXIETY AGENTS	2,077,577	8,193	34.6	90,514	0.6	36	23
CALCIUM BLOCKERS	1,999,155	5,180	21.9	56,334	0.9	41	35
ANTIIDIABETIC	1,774,196	6,536	27.6	72,280	0.8	30	25
ANALGESICS - Narcotic	1,753,150	10,223	43.1	111,994	0.5	29	16
DERMATOLOGICAL	1,641,995	20,739	87.5	236,080	0.2	28	7

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table 10 includes the beneficiaries represented by Cell D of Table 1, those who resided in nursing facilities throughout their Medicaid enrollment in 1999. A total of 15,481 beneficiaries who were in nursing facilities for part of their enrollment and their 140,581 benefit months were excluded from the analysis.

b. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

c. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

d. The top 10 drug groups were determined based on total 1999 Medicaid reimbursement for all-year nursing facility residents in this state. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; NF = nursing facility; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 10A

MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH FOR TOP 10 DRUG GROUPS COMBINED AND FIRST AND SECOND TOP DRUG GROUPS SEPARATELY AMONG ALL-YEAR NURSING FACILITY RESIDENTS, BY SEX, BOE, AND AGE^{a, b, c, d} MISSOURI, 1999

Beneficiary Characteristics	All Top 10 Drug Groups					ANTIPSYCHOTICS					ANTIDEPRESSANTS				
	No. of Rx	Rx \$	No. of Users	Residents	Mean No. of Users among NF	Mean No. of Rx	Rx \$	No. of Users	Residents	Mean No. of Users among NF	No. of Users	Residents	Mean No. of Rx	Rx \$	
All	730,300	\$35,125,561	10,284	43.4 %	114,412	0.7	\$65	15,160	64.0 %	166,933	0.8	\$43			
Female	532,705	25,095,135	7,242	41.2	80,975	0.7	63	11,309	64.3	125,091	0.8	43			
Disabled	53,828	3,182,360	729	61.0	8,450	0.9	115	924	77.3	10,537	0.8	51			
64 or younger	51,932	3,094,820	705	62.6	8,239	0.9	116	887	78.7	10,186	0.8	52			
65-74	439	15,863	5	45.5	45	0.4	54	10	90.9	95	0.8	47			
75-84	902	46,734	8	25.8	80	0.9	121	17	54.8	170	0.9	48			
85 and older	555	24,943	11	40.7	86	0.6	32	10	37.0	86	0.5	43			
Other Eligibles	478,877	21,912,775	6,513	39.7	72,525	0.7	56	10,385	63.4	114,554	0.8	42			
64 or younger	4,915	268,632	74	71.2	872	0.7	82	79	76.0	907	1.0	51			
65-74	73,420	3,788,614	1,075	61.6	12,236	0.8	90	1,391	79.7	15,638	0.8	46			
75-84	172,442	8,139,360	2,403	45.5	26,665	0.7	62	3,713	70.2	40,807	0.8	44			
85 and older	228,100	9,716,169	2,961	32.0	32,752	0.6	39	5,202	56.2	57,202	0.8	40			
Male	197,595	10,030,446	3,042	49.7	33,437	0.7	71	3,851	63.0	41,842	0.8	45			
Disabled	50,843	3,014,128	715	60.1	8,091	0.9	104	803	67.5	9,143	0.9	54			
64 or younger	50,010	2,973,673	694	60.1	7,857	0.9	105	789	68.3	8,984	0.9	54			
65-74	327	18,157	8	72.7	87	0.5	71	5	45.5	51	0.8	35			
75-84	188	7,602	3	30.0	27	0.6	36	3	30.0	36	0.6	18			
85 and older	318	14,696	10	76.9	120	0.6	36	6	46.2	72	0.8	57			
Other Eligibles	146,752	7,016,318	2,327	47.2	25,346	0.7	61	3,048	61.9	32,699	0.8	43			
64 or younger	4,634	245,108	62	62.6	732	0.9	91	69	69.7	791	0.9	59			
65-74	44,099	2,263,090	690	56.3	7,740	0.8	80	823	67.1	9,007	0.8	45			
75-84	58,732	2,774,766	957	49.8	10,243	0.7	59	1,238	64.4	13,195	0.8	43			
85 and older	39,287	1,733,354	618	36.8	6,631	0.6	38	918	54.6	9,706	0.8	39			
Unknown	0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0			

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table 10A includes the beneficiaries represented by Cell D of Table 1, those who resided in nursing facilities throughout their Medicaid enrollment in 1999. A total of 15,481 beneficiaries who were in nursing facilities for part of their enrollment and their 140,581 benefit months were excluded from the analysis.

b. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

c. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

d. The top 10 drug groups were determined based on total 1999 Medicaid reimbursement for all-year nursing facility residents in this state. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

Bene Mo(s) = benefit month(s); BOE = basis of eligibility; CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; NF = nursing facility; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 10B
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH FOR THIRD TO FIFTH TOP DRUG GROUPS SEPARATELY
 AMONG ALL-YEAR NURSING FACILITY RESIDENTS, BY SEX, BOE, AND AGE^{a, b, c, d}
 MISSOURI, 1999

Beneficiary Characteristics	ULCER DRUGS						ANTICONVULSANT						ANTIHYPERTENSIVE						
	Users as %			Users as %			Users as %			Users as %			Users as %			Users as %			
	No. of Users	No. of Bene Mos among Residents	Mean No. of Rx	Mean No. of Bene Mos among Residents	No. of Users	Mean No. of Rx	No. of Users	Mean No. of Bene Mos among Residents	No. of Users	Mean No. of Rx	No. of Users	Mean No. of Bene Mos among Residents	No. of Users	Mean No. of Bene Mos among Residents	No. of Users	Mean No. of Bene Mos among Residents	No. of Users	Mean No. of Bene Mos among Residents	
All	10,421	44.0 %	\$50	6,068	25.6 %	1.0	\$44	8,609	36.3 %	0.8	\$26	93,336	0.8						
Female																			
Disabled	7,710	43.8	50	3,807	21.6	1.0	41	6,198	35.2	0.8	25	67,515	0.8						
64 or younger	558	46.7	56	834	69.7	1.2	60	306	25.6	0.9	26	3,533	0.9						
65-74	522	46.3	56	816	72.4	1.2	60	281	24.9	0.9	26	3,261	0.9						
75-84	5	45.5	43	4	36.4	0.8	21	2	18.2	0.6	5	14	0.6						
85 and older	15	48.4	61	12	38.7	1.1	36	12	38.7	0.5	17	134	0.5						
Other Eligibles	16	59.3	50	2	7.4	0.5	9	11	40.7	0.9	31	124	0.9						
64 or younger	7,152	43.6	49	2,973	18.1	0.9	36	5,892	35.9	0.8	25	63,982	0.8						
65-74	55	52.9	49	47	45.2	1.2	56	37	35.6	0.9	33	432	0.9						
75-84	806	46.2	51	729	41.8	1.0	46	680	38.9	0.9	26	7,556	0.9						
85 and older	2,346	44.4	51	1,162	22.0	1.0	35	2,041	38.6	0.8	26	22,108	0.8						
Male																			
Disabled	3,945	42.6	48	1,035	11.2	0.9	27	3,134	33.9	0.8	24	33,886	0.8						
64 or younger	2,711	44.3	52	2,261	37.0	1.1	48	2,411	39.4	0.8	28	25,821	0.8						
65-74	538	45.2	57	889	74.8	1.2	61	369	31.0	0.8	30	4,179	0.8						
75-84	522	45.2	57	878	76.0	1.2	61	356	30.8	0.8	30	4,033	0.8						
85 and older	5	45.5	64	8	72.7	0.8	22	6	54.5	0.7	36	62	0.7						
Other Eligibles	8	80.0	58	1	10.0	0.8	16	0	0.0	0.0	0	0	0.0						
64 or younger	3	23.1	43	2	15.4	1.5	53	7	53.8	0.6	17	84	0.6						
65-74	2,173	44.1	50	1,372	27.8	1.0	39	2,042	41.4	0.8	28	21,642	0.8						
75-84	49	49.5	56	65	65.7	1.0	41	52	52.5	0.9	30	591	0.9						
85 and older	545	44.5	48	556	45.4	1.1	44	527	43.0	0.8	28	5,661	0.8						
Unknown	834	43.4	51	517	26.9	0.9	36	840	43.7	0.9	29	8,960	0.9						
	745	44.3	51	234	13.9	0.8	30	623	37.1	0.8	27	6,430	0.8						

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table 10B includes the beneficiaries represented by Cell D of Table 1, those who resided in nursing facilities throughout their Medicaid enrollment in 1999. A total of 15,481 beneficiaries who were in nursing facilities for part of their enrollment and their 140,581 benefit months were excluded from the analysis.

b. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

c. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

d. The top 10 drug groups were determined based on total 1999 Medicaid reimbursement for all-year nursing facility residents in this state. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

Bene Mo(s) = benefit month(s); BOE = basis of eligibility; CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; NF = nursing facility; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 10C
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH FOR SIXTH TO EIGHTH TOP DRUG GROUPS SEPARATELY
 AMONG ALL-YEAR NURSING FACILITY RESIDENTS, BY SEX, BOE, AND AGE^{a, b, c, d}
 MISSOURI, 1999

Beneficiary Characteristics	ANTIANXIETY AGENTS					CALCIUM BLOCKERS					ANTIDIABETIC						
	Users as %					Users as %					Users as %						
	No. of Users	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$	Mean No. of Rx	No. of Users	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$	Mean No. of Rx	No. of Users	No. of Bene Mos among Users	Mean No. of Rx	Mean Rx \$	No. of Users	No. of Bene Mos among Users	Mean No. of Rx
All	8,193	90,514	0.6	\$23	0.9	5,180	21.9 %	56,334	0.9	\$36	6,536	27.6 %	72,280	0.8	\$25		
Female	5,981	66,452	0.6	23	0.9	4,001	22.7	43,565	0.9	35	4,820	27.4	53,662	0.8	25		
Disabled	534	6,149	0.7	27	0.9	205	17.1	2,360	0.9	41	348	29.1	3,923	0.9	31		
64 or younger	510	5,896	0.8	27	0.9	192	17.0	2,225	0.9	40	324	28.7	3,687	0.9	31		
65-74	8	86	0.6	21	1.1	1	9.1	7	1.1	64	5	45.5	45	0.8	19		
75-84	6	62	0.5	27	0.8	9	29.0	100	0.8	47	11	35.5	124	0.8	30		
85 and older	10	105	0.6	24	1.3	3	11.1	28	1.3	62	8	29.6	67	0.6	7		
Other Eligibles	5,447	60,303	0.6	22	0.9	3,796	23.2	41,205	0.9	35	4,472	27.3	49,739	0.8	24		
64 or younger	46	532	0.7	40	0.9	20	19.2	240	0.9	42	54	51.9	632	1.1	38		
65-74	708	7,997	0.7	25	0.9	422	24.2	4,710	0.9	39	784	44.9	8,980	0.9	28		
75-84	1,942	21,567	0.6	24	0.9	1,270	24.0	13,813	0.9	35	1,838	34.8	20,386	0.8	25		
85 and older	2,751	30,207	0.6	19	0.9	2,084	22.5	22,442	0.9	34	1,796	19.4	19,741	0.8	22		
Male	2,212	24,062	0.6	24	0.9	1,179	19.3	12,769	0.9	36	1,716	28.1	18,618	0.8	24		
Disabled	508	5,756	0.7	29	0.9	207	17.4	2,397	0.9	42	278	23.4	3,186	0.8	25		
64 or younger	497	5,627	0.7	29	0.9	204	17.7	2,361	0.9	42	275	23.8	3,150	0.8	25		
65-74	4	45	0.4	22	0.9	1	9.1	12	0.9	21	1	9.1	12	0.3	3		
75-84	2	24	0.4	4	0.0	0	0.0	0	0.0	0	2	20.0	24	1.8	44		
85 and older	5	60	0.4	5	1.0	2	15.4	24	1.0	35	0	0.0	0	0.0	0		
Other Eligibles	1,704	18,306	0.6	23	0.9	972	19.7	10,372	0.9	35	1,438	29.2	15,432	0.8	23		
64 or younger	44	498	0.6	23	0.9	26	26.3	297	0.9	42	32	32.3	334	0.9	25		
65-74	442	4,840	0.7	30	0.9	245	20.0	2,706	0.9	37	415	33.8	4,609	0.8	26		
75-84	687	7,372	0.6	23	0.9	426	22.2	4,473	0.9	34	624	32.5	6,601	0.8	24		
85 and older	531	5,596	0.5	17	0.8	275	16.4	2,896	0.8	32	367	21.8	3,888	0.8	20		
Unknown	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	0.0	0	0.0	0		

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table 10C includes the beneficiaries represented by Cell D of Table 1, those who resided in nursing facilities throughout their Medicaid enrollment in 1999. A total of 15,481 beneficiaries who were in nursing facilities for part of their enrollment and their 140,581 benefit months were excluded from the analysis.

b. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

c. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

d. The top 10 drug groups were determined based on total 1999 Medicaid reimbursement for all-year nursing facility residents in this state. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

Bene Mo(s) = benefit month(s); BOE = basis of eligibility; CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; NF = nursing facility; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

TABLE 10D
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH FOR NINTH AND TENTH TOP DRUG GROUPS
 SEPARATELY AMONG ALL-YEAR NURSING FACILITY RESIDENTS, BY SEX, BOE, AND AGE^{a, b, c, d}
 MISSOURI, 1999

Beneficiary Characteristics	ANALGESICS - Narcotic					DERMATOLOGICAL						
	Users as %		Users as %		Mean Rx \$	Users as %		Users as %		Mean Rx \$		
	No. of Users	No. of Bene Mos among Users	No. of Bene Mos among Users	No. of Bene Mos among Users		No. of Residents	No. of Residents	No. of Rx	No. of Rx			
All	10,223	43.1 %	111,994	0.5	\$16	20,739	87.5 %	236,080	0.2	\$7	23,705	254,471
Female	7,997	45.5	88,239	0.5	16	15,072	85.7	172,488	0.2	7	17,588	190,283
Disabled	584	48.8	6,578	0.6	20	1,302	108.9	15,189	0.3	8	1,196	13,580
64 or younger	552	49.0	6,256	0.6	20	1,250	110.9	14,633	0.3	8	1,127	12,938
65-74	6	54.5	62	0.7	5	19	172.7	208	0.7	13	11	98
75-84	12	38.7	136	0.2	4	22	71.0	216	0.4	6	31	311
85 and older	14	51.9	124	0.4	3	11	40.7	132	0.3	11	27	233
Other Eligibles	7,413	45.2	81,661	0.5	16	13,770	84.0	157,299	0.2	7	16,392	176,703
64 or younger	46	44.2	516	0.7	21	92	88.5	1,088	0.2	6	104	1,190
65-74	875	50.1	9,770	0.6	16	1,596	91.4	18,595	0.3	8	1,746	19,316
75-84	2,447	46.3	27,108	0.6	19	4,431	83.8	50,667	0.2	7	5,287	56,767
85 and older	4,045	43.7	44,267	0.5	14	7,651	82.7	86,949	0.2	6	9,255	99,430
Male	2,226	36.4	23,755	0.5	14	5,667	92.6	63,592	0.3	8	6,117	64,188
Disabled	469	39.4	5,216	0.6	19	1,200	100.9	13,954	0.3	11	1,189	13,197
64 or younger	458	39.7	5,126	0.6	19	1,175	101.7	13,666	0.3	11	1,155	12,895
65-74	2	18.2	21	0.1	1	8	72.7	84	0.4	11	11	113
75-84	6	60.0	44	0.4	16	8	80.0	96	0.2	6	10	70
85 and older	3	23.1	25	0.1	6	9	69.2	108	0.3	7	13	119
Other Eligibles	1,757	35.7	18,539	0.5	13	4,467	90.6	49,638	0.3	7	4,928	50,991
64 or younger	42	42.4	477	0.8	23	119	120.2	1,374	0.3	6	99	1,105
65-74	435	35.5	4,648	0.5	14	1,112	90.7	12,637	0.3	7	1,226	13,088
75-84	656	34.1	6,853	0.5	13	1,758	91.5	19,280	0.3	7	1,922	19,766
85 and older	624	37.1	6,561	0.4	12	1,478	87.9	16,347	0.2	7	1,681	17,032
Unknown	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table 10D includes the beneficiaries represented by Cell D of Table 1, those who resided in nursing facilities throughout their Medicaid enrollment in 1999. A total of 15,481 beneficiaries who were in nursing facilities for part of their enrollment and their 140,581 benefit months were excluded from the analysis.

b. A user is a beneficiary who had at least one prescription filled in a given drug group during 1999. A beneficiary who used drugs from two or more drug groups was counted as a user for each group. Therefore, the sum of users across drug groups may exceed the total number of individual users. Benefit months are months during which beneficiaries had fee-for-service pharmacy benefits.

c. Medicaid reimbursement amounts presented in this table do not reflect federally required rebates from drug manufacturers to the state.

d. The top 10 drug groups were determined based on total 1999 Medicaid reimbursement for all-year nursing facility residents in this state. For information about these drug groups, see Wolters Kluwer Health, http://www.Medi-Span.com/products/product_mddb.asp (May 13 2003).

Bene Mo(s) = benefit month(s); BOE = basis of eligibility; CMS = Center for Medicare and Medicaid Services; MAX = Medicaid Analytic Extract; NF = nursing facility; Rx = prescription(s) or pharmacy benefit; \$ = Medicaid reimbursement.

APPENDIX TABLE A.1

CHARACTERISTICS OF MEDICAID BENEFICIARIES WITH AT LEAST ONE MONTH OF PHARMACY BENEFIT COVERAGE, BY BASIS OF ELIGIBILITY^{a, b}
MISSOURI, 1999

Beneficiary Characteristics	No. of Benes					No. of Bene Mos						
	All	Aged	Disabled	Adults	Children	Unknown	All	Aged	Disabled	Adults	Children	Unknown
All	885,610	92,859	126,075	172,057	494,619	0	8,583,602	940,741	1,298,383	1,446,242	4,898,236	0
Age												
5 and younger	192,050	0	807	11	191,232	0	1,825,785	0	7,869	38	1,817,878	0
6-14	229,331	0	2,945	52	226,334	0	2,372,810	0	33,445	344	2,339,021	0
15-20	103,124	0	4,371	21,986	76,767	0	971,245	0	45,888	186,063	739,294	0
21-44	197,725	1	55,733	141,712	279	0	1,778,967	12	586,844	1,190,128	1,983	0
45-64	70,341	3,209	58,877	8,253	2	0	699,602	34,892	595,364	69,335	11	0
65-74	33,117	31,026	2,052	39	0	0	337,181	320,006	16,876	299	0	0
75-84	32,648	31,744	900	4	0	0	330,475	322,084	8,356	35	0	0
85 and older	27,272	26,879	390	0	3	0	267,514	263,747	3,741	0	26	0
Unknown	2	0	0	0	2	0	23	0	0	0	23	0
Gender												
Female	521,144	68,422	66,650	144,191	241,881	0	5,053,500	705,482	697,213	1,248,140	2,402,665	0
Male	364,466	24,437	59,425	27,866	252,738	0	3,530,102	235,259	601,170	198,102	2,495,571	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Race												
White	603,516	75,233	94,103	118,873	315,307	0	5,715,401	754,693	961,521	965,787	3,033,400	0
African American	250,775	15,152	30,137	46,500	158,986	0	2,591,245	160,494	318,897	434,780	1,677,074	0
Other/unknown	31,319	2,474	1,835	6,684	20,326	0	276,956	25,554	17,965	45,675	187,762	0
Use of Nursing Facilities												
All year	23,705	21,317	2,385	0	3	0	254,480	227,672	26,779	0	29	0
Part year	15,483	13,120	2,346	5	12	0	140,702	117,318	23,198	47	139	0
None	846,422	58,422	121,344	172,052	494,604	0	8,188,420	595,751	1,248,406	1,446,195	4,898,068	0
Maintenance Assistance Status												
Cash	297,761	21,031	58,778	76,176	141,776	0	3,002,743	241,269	650,172	693,519	1,417,783	0
Medically needy	0	0	0	0	0	0	0	0	0	0	0	0
Poverty related	282,439	4,179	3,585	22,343	252,332	0	2,752,902	32,786	35,469	130,533	2,554,114	0
Other/unknown	305,410	67,649	63,712	73,538	100,511	0	2,827,957	666,686	612,742	622,190	926,339	0
Dual Status^c												
Full dual, all year	127,346	79,736	46,660	902	48	0	1,317,410	821,137	488,250	7,508	515	0
Full dual, part year	12,137	5,902	6,166	69	0	0	119,598	53,878	64,964	756	0	0
Non-dual, all year	746,127	7,221	73,249	171,086	494,571	0	7,146,594	65,726	745,169	1,437,978	4,897,721	0
Managed Care Status												
FFS all year	517,234	92,837	124,675	85,029	214,693	0	4,893,039	940,563	1,282,776	647,799	2,021,901	0
FFS part year, with Rx claims	32,155	12	983	15,288	15,872	0	307,805	93	11,159	136,813	159,740	0
FFS part year, no Rx claims	222,209	9	338	54,330	167,532	0	2,310,050	84	3,566	510,625	1,795,775	0
MC all year, with Rx claims	2,646	0	63	797	1,786	0	26,273	0	745	7,218	18,310	0
MC all year, no Rx claims	111,366	1	16	16,613	94,736	0	1,046,435	1	137	143,787	902,510	0

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

a. Table A.1 includes the beneficiaries represented by Cell B of Table 1. Benefit months are months during which beneficiaries had pharmacy benefit.

b. Medicaid basis of eligibility is classified as: 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 children receiving foster care and adoptive services. The total includes some beneficiaries with unknown basis of eligibility and some whose age categories are not consistent with basis of eligibility.

c. The "Full dual, all year" group contains beneficiaries who had Medicare as well as Medicaid pharmacy benefits during all months of Medicaid enrollment in 1999. The "Full dual, part year" group contains beneficiaries who had such benefits for some, but not all, months of their enrollment. The "Non-dual, all year" group includes beneficiaries who were never dually eligible or dually eligible but never had pharmacy benefits. Refer to footnote g of Table 1 for more information about how we determined dual eligibility status.

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; FFS = fee-for-service pharmacy benefit; MAX = Medicaid Analytic Extract; MC = managed care; Rx = pharmacy benefit.

APPENDIX TABLE A.2
 MEDICAID BENEFICIARIES AND THEIR BENEFIT MONTHS WITH OR WITHOUT FEE-FOR-SERVICE PHARMACY BENEFITS
 MISSOURI, 1999

	Bene Mos in Cell B of Table 1			Bene Mos in Cell C of Table 1		Excluded from Cell C of Table 1	
	No. of Bene Mos	No. of Bene Mos	No. of Bene Mos	No. of Bene Mos	No. of Bene Mos	No. of Bene Mos	No. of Bene Mos
All	885,610	8,583,602	771,598	6,313,422	114,012	2,270,180	
FFS all year	517,234	4,893,039	517,234	4,893,039	0	0	
FFS part year, with Rx claims	32,155	307,805	32,155	141,594	0	166,211	
FFS part year, with no Rx claims	222,209	2,310,050	222,209	1,278,789	0	1,031,261	
MC all year, with Rx claims	2,646	26,273	0	0	2,646	26,273	
MC all year, with no Rx claims	111,366	1,046,435	0	0	111,366	1,046,435	

Source: Data for this table are from the MAX 1999 file for Missouri, released by CMS in 10/2003. This table was produced on 06/25/2004.

Bene(s) = beneficiary (or beneficiaries); Bene Mo(s) = benefit month(s); CMS = Center for Medicare and Medicaid Services; FFS = fee-for-service pharmacy benefit; MAX = Medicaid Analytic Extract; MC = managed care; Rx = pharmacy benefit.