

STATISTICAL COMPENDIUM: MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT IN 1999 NORTH CAROLINA

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TABLE 1
OVERVIEW OF BENEFICIARY SELECTION CRITERIA FOR STUDY POPULATION
NORTH CAROLINA, 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	1,209,799 (A)	261,684 (E)
2. Benes who had Medicaid pharmacy benefits during at least one month ^b	1,139,505 (B)	212,565 (F)
3. Benes who had fee-for-service pharmacy benefit coverage during at least one month ^{c, d, e}	1,098,280 (C)	212,498 (G)
4. Benes who were all-year nursing facility residents ^f	15,690 (D)	15,014 (H)

Source: Data for this table are from the MAX 1999 file for North Carolina, 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 North Carolina in 1999 was \$662,374,137, of which \$43,520,445 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 1.9 percent were restricted benefit months without a pharmacy benefit in North Carolina, 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}
 NORTH CAROLINA, 1999

Beneficiary Characteristics	No. of Benes							No. of Bene Mos										
	All	Aged	Disabled	Adults	Children	Other/ Unknown	All	Aged	Disabled	Adults	Children	Other/ Unknown	All	Aged	Disabled	Adults	Children	Other/ Unknown
All	1,098,280	140,263	200,813	187,893	569,311	0	9,364,837	1,520,384	2,103,450	1,287,443	4,453,560	0	9,364,837	1,520,384	2,103,450	1,287,443	4,453,560	0
Age																		
5 and younger	265,255	0	7,339	5	257,911	0	2,010,687	0	66,731	17	1,943,939	0	2,010,687	0	66,731	17	1,943,939	0
6-14	254,455	8	20,433	126	233,888	0	2,097,523	78	198,908	529	1,898,008	0	2,097,523	78	198,908	529	1,898,008	0
15-20	113,845	1	12,105	25,035	76,704	0	888,026	12	120,223	159,321	608,470	0	888,026	12	120,223	159,321	608,470	0
21-44	224,715	17	69,752	154,149	797	0	1,817,058	197	750,888	1,062,856	3,117	0	1,817,058	197	750,888	1,062,856	3,117	0
45-64	99,055	131	90,388	8,536	0	0	1,024,895	1,433	959,042	64,420	0	0	1,024,895	1,433	959,042	64,420	0	0
65-74	55,682	55,103	543	36	0	0	611,323	606,139	4,923	261	0	0	611,323	606,139	4,923	261	0	0
75-84	52,163	52,001	157	5	0	0	570,879	569,115	1,726	38	0	0	570,879	569,115	1,726	38	0	0
85 and older	33,100	33,002	96	1	1	0	344,424	343,410	1,009	1	4	0	344,424	343,410	1,009	1	4	0
Unknown	10	0	0	0	10	0	22	0	0	0	22	0	22	0	0	0	22	0
Gender																		
Female	674,401	108,274	104,322	175,559	286,246	0	5,761,098	1,180,344	1,114,671	1,217,582	2,248,501	0	5,761,098	1,180,344	1,114,671	1,217,582	2,248,501	0
Male	423,879	31,989	96,491	12,334	283,065	0	3,603,739	340,040	988,779	69,861	2,205,059	0	3,603,739	340,040	988,779	69,861	2,205,059	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Race																		
White	469,242	71,217	84,193	83,841	229,991	0	3,872,225	758,044	880,043	541,470	1,692,668	0	3,872,225	758,044	880,043	541,470	1,692,668	0
African American	480,660	49,078	79,178	86,689	265,715	0	4,237,420	543,188	845,297	646,341	2,202,594	0	4,237,420	543,188	845,297	646,341	2,202,594	0
Other/unknown	148,378	19,988	37,442	17,363	73,605	0	1,255,192	219,152	378,110	99,632	558,298	0	1,255,192	219,152	378,110	99,632	558,298	0
Use of Nursing Facilities																		
All year	15,690	14,096	1,593	1	0	0	173,659	155,313	18,344	2	0	0	173,659	155,313	18,344	2	0	0
Part year	13,808	11,884	1,912	11	1	0	135,944	116,126	19,705	108	5	0	135,944	116,126	19,705	108	5	0
None	1,068,782	114,283	197,308	187,881	569,310	0	9,055,234	1,248,945	2,065,401	1,287,333	4,453,555	0	9,055,234	1,248,945	2,065,401	1,287,333	4,453,555	0
Maintenance Assistance Status																		
Cash	386,004	74,554	144,095	56,777	110,578	0	3,758,656	836,223	1,567,125	438,664	916,644	0	3,758,656	836,223	1,567,125	438,664	916,644	0
Medically needy	8,262	4,417	1,831	1,441	573	0	73,560	42,436	17,128	10,317	3,679	0	73,560	42,436	17,128	10,317	3,679	0
Poverty-related	572,623	61,269	54,884	61,002	395,448	0	4,525,700	641,706	519,185	327,768	3,037,041	0	4,525,700	641,706	519,185	327,768	3,037,041	0
Other/unknown	131,391	3	3	68,673	62,712	0	1,006,921	19	12	510,694	496,196	0	1,006,921	19	12	510,694	496,196	0
Dual Medicare Status^c																		
Full dual, all year	204,117	131,618	71,315	1,159	25	0	2,234,116	1,435,588	789,027	9,302	199	0	2,234,116	1,435,588	789,027	9,302	199	0
Full dual, part year	8,381	5,466	2,902	13	0	0	93,883	61,237	32,498	148	0	0	93,883	61,237	32,498	148	0	0
Non-dual, all year	885,782	3,179	126,596	186,721	569,286	0	7,036,838	23,559	1,281,925	1,277,993	4,453,361	0	7,036,838	23,559	1,281,925	1,277,993	4,453,361	0
Managed Care Status																		
FFS all year	932,730	140,187	189,670	179,605	423,268	0	8,512,951	1,519,879	2,038,788	1,259,136	3,695,148	0	8,512,951	1,519,879	2,038,788	1,259,136	3,695,148	0
FFS part year, with Rx claims	112,954	69	8,972	6,298	97,615	0	598,449	456	52,440	22,097	523,456	0	598,449	456	52,440	22,097	523,456	0
FFS part year, no Rx claims	52,596	7	2,171	1,990	48,428	0	253,437	49	12,222	6,210	234,956	0	253,437	49	12,222	6,210	234,956	0

Source: Data for this table are from the MAX 1999 file for North Carolina, 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}
 NORTH CAROLINA, 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 Benefes
All	70.3 %	12.1	\$564	\$47	\$3,624	15.5 %	\$7	1,098,280
Age								
5 and younger	68.4	4.1	108	26	1,622	6.7	0	265,255
6-14	57.3	3.6	164	45	1,286	12.7	1	254,455
15-20	61.6	4.4	203	46	2,397	8.5	1	113,845
21-44	72.5	11.1	634	57	4,383	14.5	5	224,715
45-64	85.7	32.6	1,693	52	7,976	21.2	32	99,055
65-74	88.7	34.9	1,553	45	5,904	26.3	33	55,682
75-84	91.0	36.9	1,567	42	8,298	18.9	24	52,163
85 and older	91.9	35.6	1,418	40	12,497	11.3	11	33,100
Unknown	0.0	0.0	0	0	6	0.0	0	10
Basis of Eligibility								
Aged	90.3	35.8	1,528	43	8,338	18.3	24	140,263
Disabled	81.9	25.3	1,499	59	8,818	17.0	20	200,813
Adults	69.5	6.2	227	37	2,240	10.1	2	187,893
Children	61.6	3.5	107	30	1,088	9.9	0	569,311
Unknown	0.0	0.0	0	0	0	0.0	0	0
Gender								
Female	72.9	13.9	613	44	3,712	16.5	9	674,401
Male	66.2	9.3	485	52	3,485	13.9	4	423,879
Unknown	0.0	0.0	0	0	0	0.0	0	0
Race								
White	75.3	14.9	712	48	4,303	16.5	7	469,242
African American	66.3	9.2	407	44	2,872	14.2	7	480,660
Other/unknown	67.7	12.6	601	48	3,916	15.3	8	148,378
Use of Nursing Facilities								
Entire year	97.1	49.9	2,331	47	30,950	7.5	34	15,690
Part year	95.7	39.9	1,937	49	18,437	10.5	26	13,808
None	69.6	11.2	520	47	3,032	17.1	7	1,068,782
Maintenance Assistance Status								
Cash	76.5	18.8	946	50	4,901	19.3	13	386,004
Medically needy	84.9	29.5	1,551	53	16,310	9.5	18	8,262
Poverty related	66.7	8.7	366	42	3,034	12.1	5	572,623
Other/unknown	67.1	6.1	237	39	1,646	14.4	2	131,391

Source: Data for this table are from the MAX 1999 file for North Carolina, 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}
 NORTH CAROLINA, 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	1.4	\$66	15.5 %	29.7 %	44.6 %	8.6 %	12.6 %	3.9 %	0.6 %	\$425	1,098,280	9,364,837
Age												
5 and younger	0.5	14	6.7	31.6	58.5	6.3	3.1	0.5	0.1	214	265,255	2,010,687
6-14	0.4	20	12.7	42.7	48.9	4.6	3.0	0.6	0.1	156	254,455	2,097,523
15-20	0.6	26	8.5	38.4	51.3	5.7	3.6	0.7	0.2	307	113,845	888,026
21-44	1.4	78	14.5	27.5	46.1	10.8	12.5	2.6	0.5	542	224,715	1,817,058
45-64	3.1	164	21.2	14.3	21.7	13.9	34.9	13.0	2.1	771	99,055	1,024,895
65-74	3.2	142	26.3	11.3	20.4	14.7	38.3	13.6	1.7	538	55,682	611,323
75-84	3.4	143	18.9	9.0	18.1	15.0	40.9	15.3	1.7	758	52,163	570,879
85 and older	3.4	136	11.3	8.1	17.7	15.6	41.4	16.0	1.2	1,201	33,100	344,424
Unknown	0.0	0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	3	10	22
Basis of Eligibility												
Aged	3.3	141	18.3	9.7	18.9	15.0	40.0	14.8	1.6	769	140,263	1,520,384
Disabled	2.4	143	17.0	18.1	31.0	13.2	27.0	9.1	1.5	842	200,813	2,103,450
Adults	0.9	33	10.1	30.5	52.0	9.2	7.2	0.9	0.2	327	187,893	1,287,443
Children	0.5	14	9.9	38.4	53.2	5.2	2.6	0.4	0.1	139	569,311	4,453,560
Unknown	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
Gender												
Female	1.6	72	16.5	27.1	44.0	9.0	14.5	4.7	0.7	435	674,401	5,761,098
Male	1.1	57	13.9	33.8	45.6	7.9	9.8	2.6	0.4	410	423,879	3,603,739
Unknown	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
Race												
White	1.8	86	16.5	24.7	43.4	10.1	15.6	5.4	0.8	522	469,242	3,872,225
African American	1.0	46	14.2	33.7	46.8	7.2	9.6	2.4	0.3	326	480,660	4,237,420
Other/unknown	1.5	71	15.3	32.3	41.4	8.4	13.0	4.2	0.6	463	148,378	1,255,192
Use of Nursing Facilities												
Entire year	4.5	211	7.5	2.9	10.9	12.1	42.7	27.0	4.4	2,796	15,690	173,659
Part year	4.1	197	10.5	4.3	13.8	15.3	44.5	19.5	2.7	1,873	13,808	135,944
None	1.3	61	17.1	30.4	45.5	8.4	11.8	3.4	0.5	358	1,068,782	9,055,234
Maintenance Assistance Status												
Cash	1.9	97	19.3	23.5	39.1	10.3	19.5	6.7	0.9	503	386,004	3,758,656
Medically needy	3.3	174	9.5	15.1	22.9	13.6	31.7	14.3	2.5	1,832	8,262	73,560
Poverty related	1.1	46	12.1	33.3	47.4	7.3	9.0	2.6	0.4	384	572,623	4,525,700
Other/unknown	0.8	31	14.4	32.9	49.8	8.8	7.3	1.0	0.3	215	131,391	1,006,921

Source: Data for this table are from the MAX 1999 file for North Carolina, 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.

TABLE 5
 MEDICAID PHARMACY BENEFIT USE AND REIMBURSEMENT PER BENEFIT MONTH, BY BRAND STATUS AND BENEFICIARY CHARACTERISTIC^{a, b, c}
 NORTH CAROLINA, 1999

Beneficiary Characteristics	All Rx		Patented Brand-Name Drugs		Off-Patent Brand-Name Drugs		Generic Drugs	
	No. of Rx	Rx \$	No. of Rx	\$ per Rx	No. of Rx	Rx \$	No. of Rx	Rx \$
All	1.4	\$66	0.5	\$42	0.2	\$10	0.6	\$12
Age								
5 and younger	0.5	14	0.2	9	0.0	1	0.3	4
6-14	0.4	20	0.2	13	0.0	2	0.2	4
15-20	0.6	26	0.2	17	0.1	3	0.3	5
21-44	1.4	78	0.5	53	0.2	11	0.7	11
45-64	3.1	164	1.2	104	0.4	24	1.3	26
65-74	3.2	142	1.2	85	0.5	23	1.3	25
75-84	3.4	143	1.2	82	0.6	26	1.4	26
85 and older	3.4	136	1.1	74	0.6	26	1.5	28
Unknown	0.0	0	0.0	0	0.0	0	0.0	0
Basis of Eligibility								
Aged	3.3	141	1.2	82	0.5	25	1.4	26
Disabled	2.4	143	1.0	95	0.3	20	1.0	21
Adults	0.9	33	0.3	21	0.1	4	0.5	6
Children	0.5	14	0.2	9	0.0	1	0.3	4
Unknown	0.0	0	0.0	0	0.0	0	0.0	0
Gender								
Female	1.6	72	0.6	45	0.2	11	0.7	13
Male	1.1	57	0.4	37	0.1	8	0.5	10
Unknown	0.0	0	0.0	0	0.0	0	0.0	0
Race								
White	1.8	86	0.7	54	0.2	13	0.8	15
African American	1.0	46	0.4	29	0.1	7	0.5	8
Other/unknown	1.5	71	0.5	45	0.2	10	0.7	13
Use of Nursing Facilities								
Entire year	4.5	211	1.5	121	0.9	40	1.9	39
Part year	4.1	197	1.4	117	0.7	34	1.7	35
None	1.3	61	0.5	39	0.2	9	0.6	11
Maintenance Assistance Status								
Cash	1.9	97	0.7	61	0.3	15	0.8	16
Medically needy	3.3	174	1.2	108	0.6	29	1.4	29
Poverty related	1.1	46	0.4	29	0.1	7	0.5	9
Other/unknown	0.8	31	0.3	20	0.1	4	0.4	6

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

a. Table 5 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.

Table 5

All Medicaid Beneficiaries

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 North Carolina, 5.0 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}
 NORTH CAROLINA, 1999

Therapeutic Category	No. of Rx per Bene Mo among Users			\$ per Bene Mo among Users			\$ per 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	Total No. of Rx	Total Rx \$	No.	As % of All Benes	No. of Bene Mos			
															Generic	Generic	Generic
Anti-infective Agents	0.3	0.1	0.0	0.1	\$13	\$11	\$0	\$2	\$48	\$63	\$49	\$12	1,348,997	\$64,309,890	507,319	46.2 %	4,870,372
Biologicals	0.3	0.3	0.0	0.0	485	379	32	74	1660	1,515	2,304	2,634	3,034	5,036,177	1,268	0.1	10,388
Antineoplastic Agents	0.4	0.2	0.1	0.1	73	45	20	8	169	251	174	58	44,014	7,441,930	9,501	0.9	101,775
Endocrine/Metabolic Drugs	0.5	0.3	0.1	0.2	18	14	2	3	35	51	24	15	1,054,411	37,288,613	198,716	18.1	2,028,591
Cardiovascular Agents	1.2	0.4	0.3	0.5	42	23	11	8	35	55	44	16	2,531,997	89,640,289	193,171	17.6	2,109,615
Respiratory Agents	0.4	0.2	0.0	0.2	14	10	0	3	34	54	23	16	1,546,362	52,260,478	381,615	34.7	3,717,373
Gastrointestinal Agents	0.5	0.2	0.1	0.2	39	28	5	6	80	118	95	29	757,647	60,528,355	143,658	13.1	1,542,134
Genitourinary Agents	0.2	0.2	0.0	0.1	9	8	0	1	38	46	36	21	170,350	6,544,028	70,435	6.4	706,948
CNS Drugs	0.8	0.3	0.1	0.4	52	34	10	7	68	118	116	19	1,622,378	110,322,136	202,610	18.4	2,137,460
Stimulants/Anti-obesity/Anorexia	0.4	0.2	0.0	0.2	21	10	2	9	47	62	52	36	162,589	7,603,258	38,404	3.5	369,324
Miscellaneous Psychological/Neurological Agents	0.3	0.3	0.0	0.1	33	29	2	2	99	115	111	30	47,653	4,710,438	13,158	1.2	142,513
Analgesics and Anesthetics	0.5	0.1	0.0	0.3	17	9	3	4	38	92	70	15	1,316,101	49,765,423	285,451	26.0	2,910,999
Neuromuscular Agents	0.6	0.2	0.1	0.3	33	21	5	7	53	103	41	25	673,784	35,995,398	101,643	9.3	1,091,676
Nutritional Products	0.4	0.0	0.1	0.2	7	0	3	4	21	22	27	17	355,638	7,293,309	100,941	9.2	987,394
Hematological Agents	0.4	0.1	0.2	0.2	39	24	8	7	88	437	40	37	252,699	22,264,304	54,049	4.9	566,688
Topical Products	0.3	0.1	0.0	0.1	8	5	1	2	30	46	36	15	726,620	22,099,685	275,878	25.1	2,697,795
Miscellaneous Products	0.4	0.1	0.1	0.2	92	52	31	8	214	369	314	45	23,588	5,036,411	5,135	0.5	54,926
Unknown Therapeutic Category	0.3	0.0	0.0	0.0	16	0	0	0	47	0	0	0	651,219	30,713,570	187,019	17.0	1,949,037
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.	13,289,081	618,853,692	n.a.	n.a.	n.a.

Source: Data for this table are from the MAX 1999 file for North Carolina, 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 North Carolina, 5.0 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}
 NORTH CAROLINA, 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	\$51,161,807	60,838	5.5 %	676,840	0.5	\$139		\$76
ULCER DRUGS	50,423,671	135,958	12.4	1,493,594	0.4	93		34
ANTIDEPRESSANTS	39,518,128	138,228	12.6	1,491,242	0.4	61		27
ANTICONVULSANT	28,716,036	65,171	5.9	715,462	0.6	67		40
ANTIHYPERTENSIVE	26,481,303	113,881	10.4	1,267,631	0.5	38		21
ANTIDIABETIC	26,073,276	88,548	8.1	987,521	0.6	45		26
ANALGESICS - ANTI-INFLAMMATORY	24,512,009	181,994	16.6	1,963,038	0.2	52		12
CALCIUM BLOCKERS	23,319,707	67,174	6.1	750,586	0.6	53		31
ANTIASTHMATIC	23,239,264	188,939	17.2	1,963,824	0.3	38		12
ANALGESICS - Narcotic	21,401,992	272,262	24.8	2,874,953	0.3	29		7

Source: Data for this table are from the MAX 1999 file for North Carolina, 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} NORTH CAROLINA, 1999

Beneficiary Characteristics	All Top 10 Drug Groups				ANTIPSYCHOTICS				ULCER DRUGS			
	No. of Rx	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	5,504,819	\$314,847,193	60,838	5.5 %	676,840	0.5	\$76	135,958	12.4 %	1,493,594	0.4	\$34
Female	3,892,133	215,333,235	36,819	5.5	410,039	0.5	65	98,573	14.6	1,088,055	0.4	34
Disabled	1,571,446	101,701,513	19,164	18.4	219,459	0.5	81	36,402	34.9	418,344	0.3	36
5 and younger	7,022	335,281	10	0.3	114	0.3	45	292	9.8	2,920	0.4	20
6-14	22,924	1,519,115	324	4.6	3,457	0.5	63	355	5.0	3,827	0.4	33
15-20	21,313	1,545,921	413	9.0	4,556	0.5	80	468	10.2	5,170	0.3	28
21-44	445,620	32,305,157	8,603	24.7	98,861	0.5	82	10,435	29.9	120,571	0.3	31
45-64	1,065,824	65,543,916	9,750	18.0	111,793	0.6	81	24,626	45.4	283,415	0.4	38
65-74	5,516	286,508	36	10.5	370	0.4	55	142	41.5	1,482	0.4	37
75-84	1,968	104,440	18	15.5	203	0.5	52	43	37.1	506	0.5	47
85 and older	1,259	61,175	10	12.8	105	0.5	39	41	52.6	453	0.6	47
Other Eligibles	2,320,687	113,631,722	17,655	3.1	190,580	0.5	47	62,171	10.9	669,711	0.4	33
5 and younger	46,647	1,052,892	35	0.0	335	0.4	47	2,263	1.8	19,204	0.2	7
6-14	58,400	2,201,569	510	0.4	4,994	0.4	41	1,712	1.5	17,258	0.2	9
15-20	66,305	2,052,682	562	0.8	5,190	0.3	26	2,611	3.9	25,337	0.2	11
21-44	331,069	13,246,546	2,191	1.5	20,729	0.2	26	12,288	8.5	116,972	0.2	20
45-64	49,557	2,561,880	179	2.6	1,809	0.3	32	1,512	22.3	14,992	0.3	30
65-74	692,849	37,001,789	4,378	11.3	49,834	0.6	63	15,555	40.1	179,674	0.4	37
75-84	688,443	35,801,275	5,453	13.2	60,880	0.5	50	15,897	38.4	182,080	0.4	39
85 and older	387,417	19,713,089	4,347	15.5	46,809	0.5	39	10,333	36.8	114,194	0.5	41
Male	1,612,686	99,513,958	24,019	5.7	266,801	0.6	91	37,385	8.8	405,539	0.4	34
Disabled	947,656	67,879,978	17,920	18.6	202,599	0.6	103	19,991	20.7	224,681	0.4	36
5 and younger	11,745	562,025	76	1.7	776	0.3	34	421	9.7	4,207	0.4	22
6-14	49,318	3,181,236	1,176	8.8	12,256	0.5	73	459	3.4	4,865	0.3	30
15-20	32,986	2,836,573	996	13.3	10,923	0.6	97	470	6.3	5,128	0.3	33
21-44	342,405	28,858,035	9,342	26.8	106,557	0.6	111	6,733	19.3	76,723	0.3	35
45-64	508,240	32,281,100	6,310	17.5	71,926	0.6	99	11,818	32.7	132,819	0.4	38
65-74	2,243	118,793	14	7.0	99	0.6	57	61	30.3	605	0.4	38
75-84	558	35,223	4	9.8	40	0.4	16	23	56.1	269	0.3	38
85 and older	161	6,993	2	11.1	22	0.6	4	6	33.3	65	0.6	36
Other Eligibles	665,030	31,633,980	6,099	1.9	64,202	0.5	54	17,394	5.3	180,858	0.4	31
5 and younger	67,878	1,653,912	85	0.1	809	0.3	29	2,755	2.1	22,920	0.2	8
6-14	83,750	3,523,110	1,099	0.9	10,658	0.5	51	1,375	1.2	13,877	0.2	11
15-20	29,599	1,298,593	451	1.3	4,240	0.4	57	822	2.3	7,967	0.2	13
21-44	30,225	1,524,341	218	2.1	1,918	0.3	44	971	9.4	8,353	0.3	34
45-64	12,212	665,881	37	2.0	331	0.4	61	372	19.6	3,474	0.4	35
65-74	234,368	12,327,859	1,976	12.1	22,432	0.6	63	5,557	33.9	63,095	0.4	38
75-84	149,058	7,698,765	1,495	14.1	16,098	0.5	53	3,853	36.3	42,851	0.4	38
85 and older	57,940	2,941,519	738	14.9	7,716	0.5	35	1,689	34.2	18,321	0.5	41
Unknown	0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0

Table 7A

All Medicaid Beneficiaries

Source: Data for this table are from the MAX 1999 file for North Carolina, 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}
 NORTH CAROLINA, 1999

Beneficiary Characteristics	ANTIDEPRESSANTS				ANTICONVULSANT				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	138,228	12.6 %	1,491,242	0.4	\$27	65,171	5.9 %	715,462	0.6	\$40	113,881	10.4 %	1,267,631	0.5	\$21
Female	103,749	15.4	1,119,455	0.4	26	39,682	5.9	436,269	0.6	37	80,896	12.0	906,189	0.5	21
Disabled	45,162	43.3	513,637	0.4	29	23,301	22.3	263,994	0.6	44	26,674	25.6	303,967	0.5	21
5 and younger	18	0.6	204	0.3	19	266	8.9	2,705	0.6	49	39	1.3	409	0.5	12
6-14	525	7.4	5,510	0.4	30	982	13.9	10,054	0.8	64	308	4.4	3,278	0.6	14
15-20	723	15.7	7,938	0.4	31	735	15.9	7,950	0.7	65	114	2.5	1,256	0.4	15
21-44	17,019	48.8	194,721	0.4	29	10,010	28.7	114,462	0.6	49	4,536	13.0	52,059	0.5	18
45-64	26,732	49.3	303,751	0.5	29	11,254	20.7	128,305	0.6	38	21,448	39.5	244,495	0.5	21
65-74	91	26.6	897	0.5	23	37	10.8	335	0.5	31	159	46.5	1,665	0.6	22
75-84	29	25.0	327	0.6	25	14	12.1	156	0.7	34	39	33.6	454	0.5	19
85 and older	25	32.1	289	0.6	30	3	3.8	27	0.8	25	31	39.7	351	0.7	23
Other Eligibles	58,587	10.3	605,818	0.4	24	16,381	2.9	172,275	0.5	26	54,222	9.5	602,222	0.6	21
5 and younger	71	0.1	706	0.2	7	228	0.2	2,155	0.5	20	96	0.1	903	0.4	8
6-14	1,922	1.6	18,651	0.4	22	721	0.6	6,807	0.5	29	418	0.4	3,993	0.5	10
15-20	3,080	4.6	28,903	0.3	19	675	1.0	6,170	0.4	25	279	0.4	2,585	0.3	9
21-44	20,042	13.9	184,680	0.3	21	4,122	2.8	38,550	0.4	25	3,818	2.6	34,947	0.4	13
45-64	1,898	28.0	18,382	0.4	24	415	6.1	4,105	0.4	24	1,437	21.2	13,886	0.5	19
65-74	11,630	30.0	132,974	0.5	25	4,296	11.1	48,847	0.6	29	18,893	48.8	216,700	0.6	22
75-84	12,069	29.2	135,995	0.5	27	3,942	9.5	44,216	0.6	25	18,896	45.6	215,193	0.6	22
85 and older	7,875	28.1	85,527	0.6	29	1,982	7.1	21,425	0.6	23	10,385	37.0	114,015	0.6	22
Male	34,479	8.1	371,787	0.4	27	25,489	6.0	279,193	0.6	45	32,985	7.8	361,442	0.5	21
Disabled	21,605	22.4	240,990	0.4	28	19,142	19.8	214,467	0.7	50	17,461	18.1	192,967	0.5	20
5 and younger	58	1.3	586	0.4	22	376	8.6	3,833	0.6	48	111	2.5	1,127	0.5	11
6-14	1,463	10.9	15,432	0.5	29	1,698	12.7	17,606	0.7	55	993	7.4	10,392	0.6	15
15-20	956	12.8	10,552	0.5	35	1,225	16.3	13,240	0.8	66	301	4.0	3,247	0.6	16
21-44	9,422	27.0	106,276	0.4	30	8,859	25.4	100,996	0.7	55	4,207	12.1	47,362	0.5	20
45-64	9,672	26.8	107,825	0.4	26	6,955	19.2	78,552	0.6	40	11,750	32.5	129,850	0.5	21
65-74	27	13.4	235	0.4	28	27	13.4	216	0.6	30	74	36.8	708	0.6	22
75-84	6	14.6	72	0.6	41	2	4.9	24	0.1	5	20	48.8	225	0.6	28
85 and older	1	5.6	12	0.1	11	0	0.0	0	0.0	0	5	27.8	56	0.4	13
Other Eligibles	12,874	3.9	130,797	0.4	25	6,347	1.9	64,726	0.6	28	15,524	4.7	168,475	0.5	21
5 and younger	140	0.1	1,402	0.2	11	341	0.3	3,206	0.4	17	203	0.2	2,004	0.4	8
6-14	3,098	2.7	30,172	0.4	22	1,226	1.1	11,640	0.5	30	1,383	1.2	13,410	0.5	11
15-20	1,171	3.3	10,755	0.4	25	578	1.6	5,259	0.5	34	194	0.6	1,811	0.4	13
21-44	1,551	15.1	13,112	0.3	20	615	6.0	5,202	0.4	32	479	4.7	3,926	0.4	18
45-64	423	22.3	3,806	0.4	23	154	8.1	1,409	0.4	30	370	19.5	3,271	0.5	18
65-74	3,247	19.8	36,466	0.5	26	1,932	11.8	21,781	0.6	28	6,699	40.9	75,923	0.5	22
75-84	2,237	21.1	24,529	0.5	28	1,087	10.3	11,944	0.6	26	4,447	41.9	49,427	0.6	22
85 and older	1,007	20.4	10,555	0.5	29	414	8.4	4,285	0.6	22	1,749	35.4	18,703	0.6	23
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 North Carolina, 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 BENEFIT MONTH FOR SIXTH TO EIGHTH TOP DRUG GROUPS SEPARATELY,
 BY SEX, BOE, AND AGE^{a, b, c}
 NORTH CAROLINA, 1999

Beneficiary Characteristics	ANTIDIABETIC				ANALGESICS - ANTI-INFLAMMATORY				CALCIUM BLOCKERS						
	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	88,548	8.1 %	987,521	0.6	\$26	181,994	16.6 %	1,963,038	0.2	\$13	67,174	6.1 %	750,566	0.6	\$31
Female	67,913	10.1	761,008	0.6	27	140,832	20.9	1,513,074	0.2	13	51,169	7.6	573,278	0.6	31
Disabled	27,123	26.0	310,220	0.6	30	43,492	41.7	502,304	0.3	15	15,598	15.0	177,961	0.6	31
5 and younger	3	0.1	36	0.3	19	96	3.2	1,099	0.2	3	5	0.2	54	0.1	5
6-14	37	0.5	403	0.9	31	399	5.6	4,383	0.2	6	20	0.3	214	0.5	28
15-20	118	2.6	1,314	0.7	38	867	18.8	9,644	0.2	5	49	1.1	540	0.4	26
21-44	4,764	13.7	54,830	0.5	27	13,908	39.9	161,389	0.2	11	2,671	7.7	30,561	0.5	26
45-64	21,955	40.5	250,952	0.6	30	28,046	51.7	323,800	0.3	18	12,693	23.4	144,849	0.6	32
65-74	194	56.7	2,084	0.6	28	123	36.0	1,363	0.3	18	100	29.2	1,037	0.6	34
75-84	35	30.2	409	0.7	28	35	30.2	410	0.4	25	39	33.6	456	0.7	38
85 and older	17	21.8	192	0.5	17	18	23.1	216	0.3	15	21	26.9	250	0.7	32
Other Eligibles	40,790	7.2	450,788	0.6	25	97,340	17.1	1,010,770	0.2	12	35,571	6.2	395,317	0.6	31
5 and younger	37	0.0	365	0.5	21	2,744	2.2	28,943	0.1	2	6	0.0	64	0.3	16
6-14	216	0.2	2,026	0.9	37	4,267	3.6	43,740	0.1	2	38	0.0	382	0.3	15
15-20	467	0.7	4,408	0.6	25	10,863	16.3	103,046	0.1	2	319	0.5	2,882	0.2	8
21-44	3,816	2.6	34,977	0.5	21	34,939	24.1	322,068	0.2	5	2,751	1.9	24,904	0.4	17
45-64	1,350	19.9	12,974	0.5	26	2,797	41.3	27,724	0.2	13	913	13.5	8,635	0.5	29
65-74	16,200	41.8	185,603	0.6	27	17,478	45.1	203,914	0.3	20	11,644	30.1	133,781	0.6	33
75-84	13,444	32.5	152,724	0.6	24	16,455	39.7	192,170	0.3	20	12,630	30.5	144,358	0.6	32
85 and older	5,260	18.7	57,711	0.6	20	7,797	27.8	89,165	0.3	21	7,270	25.9	80,311	0.7	31
Male	20,635	4.9	226,513	0.6	26	41,162	9.7	449,964	0.2	11	16,005	3.8	177,308	0.6	31
Disabled	11,772	12.2	130,547	0.6	27	20,286	21.0	230,201	0.2	12	8,591	8.9	95,394	0.6	32
5 and younger	5	0.1	48	0.3	8	135	3.1	1,536	0.2	3	1	0.0	12	0.3	15
6-14	39	0.3	418	0.9	39	550	4.1	6,086	0.1	3	36	0.3	362	0.5	42
15-20	97	1.3	1,026	0.8	40	817	10.9	9,019	0.1	4	57	0.8	637	0.6	52
21-44	2,935	8.4	33,045	0.6	28	7,440	21.3	85,055	0.2	9	2,063	5.9	23,046	0.5	30
45-64	8,639	23.9	95,430	0.6	27	11,273	31.2	127,754	0.3	15	6,369	17.6	70,690	0.6	32
65-74	47	23.4	473	0.7	29	55	27.4	568	0.4	19	51	25.4	489	0.6	36
75-84	6	14.6	72	0.9	53	12	29.3	142	0.3	30	10	24.4	110	0.7	40
85 and older	4	22.2	35	0.4	14	4	22.2	41	0.3	10	4	22.2	48	0.8	43
Other Eligibles	8,863	2.7	95,966	0.6	24	20,876	6.4	219,763	0.2	10	7,414	2.3	81,914	0.6	31
5 and younger	27	0.0	261	0.7	24	3,065	2.3	32,217	0.1	2	10	0.0	101	0.3	7
6-14	178	0.2	1,627	0.9	35	3,361	2.9	34,689	0.1	2	34	0.0	379	0.4	18
15-20	164	0.5	1,472	0.9	40	3,318	9.5	32,751	0.1	3	66	0.2	644	0.4	18
21-44	391	3.8	3,177	0.5	27	1,966	19.1	16,109	0.2	11	236	2.3	1,925	0.5	23
45-64	314	16.6	2,804	0.5	25	544	28.7	4,918	0.2	14	195	10.3	1,657	0.5	29
65-74	4,474	27.3	50,572	0.6	26	4,860	29.7	56,080	0.3	16	3,590	21.9	40,872	0.6	32
75-84	2,471	23.3	27,121	0.6	21	2,687	25.3	30,958	0.3	18	2,355	22.2	26,354	0.6	30
85 and older	844	17.1	8,932	0.6	19	1,075	21.8	12,041	0.3	19	928	18.8	9,982	0.6	29
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 North Carolina, 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}
 NORTH CAROLINA, 1999

Beneficiary Characteristics	ANTIASTHMATIC				ANALGESICS - Narcotic							
	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 Benes	No. of Bene Mos
All	188,939	17.2 %	1,963,824	0.3	\$12	272,262	24.8 %	2,874,953	0.3	\$7	1,098,280	9,364,837
Female	111,892	16.6	1,179,864	0.3	12	205,280	30.4	2,159,489	0.3	7	674,395	5,761,081
Disabled	34,875	33.4	396,958	0.4	16	65,298	62.6	747,951	0.3	10	104,322	1,114,671
5 and younger	1,202	40.4	12,587	0.3	10	195	6.5	2,149	0.1	1	2,978	27,046
6-14	1,461	20.7	15,741	0.4	16	576	8.2	6,244	0.1	3	7,066	68,670
15-20	756	16.4	8,303	0.3	14	1,078	23.4	11,915	0.2	3	4,610	46,246
21-44	8,949	25.7	102,900	0.3	12	23,624	67.7	271,995	0.3	10	34,878	381,435
45-64	22,381	41.3	256,163	0.4	17	39,596	73.0	453,238	0.3	11	54,254	585,952
65-74	86	25.1	806	0.5	18	150	43.9	1,479	0.3	8	342	3,206
75-84	23	19.8	276	0.5	26	41	35.3	480	0.3	5	116	1,277
85 and older	17	21.8	182	0.3	9	38	48.7	451	0.3	5	78	839
Other Eligibles	77,017	13.5	782,906	0.3	10	139,982	24.6	1,411,538	0.2	5	570,073	4,646,410
5 and younger	18,984	15.0	180,806	0.2	4	2,477	2.0	24,538	0.1	1	126,444	954,894
6-14	11,466	9.8	113,067	0.2	9	5,056	4.3	50,559	0.1	1	117,281	953,219
15-20	5,348	8.0	51,217	0.2	8	14,464	21.7	134,761	0.1	1	66,683	495,176
21-44	12,775	8.8	118,686	0.3	8	60,908	42.1	557,556	0.2	3	144,681	1,010,194
45-64	1,230	18.2	12,244	0.3	11	3,273	48.3	32,130	0.2	6	6,772	53,354
65-74	12,027	31.0	137,363	0.4	17	21,314	55.0	245,493	0.3	9	38,748	429,096
75-84	9,894	23.9	111,893	0.4	16	20,352	49.2	232,495	0.3	9	41,402	456,448
85 and older	5,293	18.9	57,630	0.3	14	12,138	43.3	134,006	0.3	10	28,062	294,029
Male	77,047	18.2	783,960	0.3	12	66,982	15.8	715,464	0.3	9	423,875	3,603,734
Disabled	20,521	21.3	226,218	0.4	16	36,411	37.7	406,353	0.3	11	96,491	988,779
5 and younger	1,923	44.1	20,050	0.3	11	313	7.2	3,339	0.1	1	4,361	39,685
6-14	3,138	23.5	33,671	0.4	15	1,000	7.5	10,901	0.1	2	13,367	130,238
15-20	962	12.7	10,450	0.4	14	1,126	15.0	12,332	0.2	5	7,495	73,977
21-44	4,049	11.6	45,804	0.3	13	14,885	42.7	167,927	0.3	11	34,874	369,453
45-64	10,387	28.7	115,608	0.4	18	18,975	52.5	210,701	0.3	12	36,134	373,090
65-74	56	27.9	447	0.5	24	90	44.8	911	0.3	9	201	1,717
75-84	13	31.7	156	0.4	12	15	36.6	178	0.1	4	41	449
85 and older	3	16.7	32	0.2	9	7	38.9	64	0.3	7	18	170
Other Eligibles	56,526	17.3	557,742	0.3	10	30,571	9.3	309,111	0.2	6	327,384	2,614,955
5 and younger	26,116	19.9	246,949	0.2	5	3,489	2.7	34,630	0.1	1	131,472	989,062
6-14	15,369	13.2	150,321	0.3	10	5,190	4.4	51,814	0.1	1	116,741	945,396
15-20	2,733	7.8	26,762	0.3	10	3,941	11.2	37,194	0.1	2	35,057	272,627
21-44	655	6.4	5,272	0.3	10	4,157	40.4	33,278	0.3	9	10,282	55,976
45-64	321	16.9	2,999	0.4	18	945	49.9	8,485	0.3	11	1,895	12,499
65-74	5,836	35.6	65,487	0.4	18	7,005	42.7	79,415	0.3	8	16,391	177,304
75-84	4,034	38.0	44,163	0.4	18	4,238	40.0	47,196	0.3	8	10,604	112,705
85 and older	1,462	29.6	15,789	0.4	18	1,606	32.5	17,099	0.3	8	4,942	49,386
Unknown	0	0.0	0	0.0	0	0	0.0	0	0.0	0	10	22

Table 7D

All Medicaid Beneficiaries

Source: Data for this table are from the MAX 1999 file for North Carolina, 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}
 NORTH CAROLINA, 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	\$211	4.5	15,690	173,659
Age				
0-64	274	5.0	1,541	17,796
65-74	254	5.1	2,185	24,629
75-84	222	4.7	4,934	54,879
85 and older	174	4.1	7,030	76,355
Unknown	0	0.0	0	0
Gender				
Female	206	4.5	12,320	136,373
Male	229	4.5	3,370	37,286
Unknown	0	0.0	0	0
Race				
White	223	4.8	10,050	109,732
African American	188	3.9	4,398	49,958
Other/unknown	198	4.5	1,242	13,969
Basis of Eligibility				
Aged	203	4.4	14,096	155,313
Disabled	273	5.0	1,593	18,344
Adults	545	6.5	1	2
Children	0	0.0	0	0
Unknown	0	0.0	0	0

Source: Data for this table are from the MAX 1999 file for North Carolina, 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 13,808 beneficiaries who were in nursing facilities for part of their enrollment and their 135,944 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}
 NORTH CAROLINA, 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	Total	Patented Brand-Name	Off-Patent Brand-Name	No.	As % of All-Year NF Residents	No. of Bene Mos		
Anti-infective Agents	0.3	0.2	0.0	0.1	\$20	\$17	\$0	\$2	\$66	\$93	\$81	\$19	36,354	\$2,381,599	10,618	67.7 %	119,838
Biologicals	0.1	0.1	0.0	0.0	2	2	0	0	20	20	0	0	20	404	20	0.1	240
Antineoplastic Agents	0.5	0.1	0.2	0.1	82	29	46	7	174	245	210	53	3,657	636,451	702	4.5	7,722
Endocrine/Metabolic Drugs	0.9	0.4	0.2	0.3	27	19	4	4	30	50	17	14	57,835	1,747,512	5,700	36.3	64,010
Cardiovascular Agents	1.6	0.4	0.4	0.8	46	18	14	13	29	48	35	17	181,573	5,334,097	10,405	66.3	116,093
Respiratory Agents	0.5	0.2	0.0	0.3	22	13	0	9	44	55	32	34	37,469	1,640,617	6,472	41.2	73,225
Gastrointestinal Agents	0.9	0.4	0.1	0.4	59	39	8	12	69	110	76	30	72,619	4,991,216	7,513	47.9	84,638
Genitourinary Agents	0.4	0.2	0.0	0.2	19	13	1	5	44	59	53	27	11,933	527,253	2,433	15.5	27,832
CNS Drugs	1.1	0.6	0.2	0.4	74	52	14	8	65	94	92	19	122,652	7,969,099	9,586	61.1	107,698
Stimulants/Anti-obesity/Anorexia	0.6	0.1	0.0	0.5	18	7	1	11	31	109	16	22	539	16,684	83	0.5	933
Miscellaneous Psychological/Neurological Agents	0.6	0.6	0.0	0.0	78	76	0	2	122	126	94	48	4,921	598,500	687	4.4	7,711
Analgesics and Anesthetics	0.6	0.2	0.1	0.3	29	19	4	6	47	92	62	17	45,728	2,169,316	6,714	42.8	75,233
Neuromuscular Agents	1.0	0.2	0.3	0.4	47	21	16	11	50	85	48	28	46,515	2,319,300	4,315	27.5	48,849
Nutritional Products	0.6	0.1	0.2	0.4	13	2	5	6	21	29	27	16	35,084	723,193	4,958	31.6	55,802
Hematological Agents	0.8	0.1	0.4	0.3	34	15	12	7	43	204	30	23	33,530	1,452,867	3,829	24.4	43,092
Topical Products	0.4	0.2	0.1	0.1	19	12	5	2	42	57	46	18	46,683	1,958,830	9,179	58.5	104,595
Miscellaneous Products	0.2	0.0	0.0	0.2	10	3	0	7	47	114	96	37	1,459	68,975	628	4.0	7,031
Unknown Therapeutic Category	0.5	0.0	0.0	0.0	24	0	0	0	46	0	0	0	43,918	2,033,848	7,626	48.6	86,215
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.	782,489	36,569,761	n.a.	n.a.	n.a.

Source: Data for this table are from the MAX 1999 file for North Carolina, 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 13,808 beneficiaries who were in nursing facilities for part of their enrollment and their 135,944 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 North Carolina, 5.0 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}
 NORTH CAROLINA, 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
ULCER DRUGS	\$3,756,338	6,705	42.7 %	75,640	0.6	\$82	\$50
ANTIDEPRESSANTS	3,411,491	7,298	46.5	82,481	0.7	61	41
ANTIPSYCHOTICS	3,041,239	4,278	27.3	48,335	0.6	105	63
ANTIHYPERTENSIVE	1,650,603	5,273	33.6	59,296	0.7	38	28
ANTICONVULSANT	1,629,655	3,503	22.3	39,864	0.8	51	41
ANTIDIABETIC	1,361,586	4,761	30.3	54,058	0.7	37	25
ANTIANSXIETY AGENTS	1,304,850	5,287	33.7	59,703	0.5	45	22
CALCIUM BLOCKERS	1,288,852	3,274	20.9	36,908	0.7	47	35
ANALGESICS - Narcotic	1,212,625	6,253	39.9	69,984	0.4	45	17
DERMATOLOGICAL	1,198,435	10,634	67.8	122,104	0.2	48	10

Source: Data for this table are from the MAX 1999 file for North Carolina, 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 13,808 beneficiaries who were in nursing facilities for part of their enrollment and their 135,944 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} NORTH CAROLINA, 1999

Beneficiary Characteristics	All Top 10 Drug Groups					ULCER DRUGS					ANTIDEPRESSANTS				
	No. of Rx	Rx \$	No. of Users	Residents	Mean No. of Rx	Mean Rx \$	No. of Users	Residents	Mean No. of Rx	Mean Rx \$	No. of Users	Residents	Mean No. of Rx	Mean Rx \$	
All	351,052	\$19,855,674	6,705	42.7 %	75,640	0.6	7,298	46.5 %	82,481	0.7	\$41				
Female	272,758	15,343,725	5,144	41.8	58,088	0.6	5,857	47.5	66,260	0.7	41				
Disabled	25,807	1,633,982	393	46.7	4,548	0.6	468	55.6	5,419	0.7	47				
64 or younger	24,612	1,562,171	371	46.8	4,324	0.6	445	56.1	5,181	0.7	47				
65-74	691	41,454	10	45.5	96	0.5	13	59.1	118	0.7	44				
75-84	244	17,140	2	25.0	24	0.5	4	50.0	48	0.8	42				
85 and older	260	13,217	10	55.6	104	0.6	6	33.3	72	0.7	44				
Other Eligibles	246,951	13,709,743	4,751	41.4	53,540	0.6	5,389	46.9	60,841	0.7	40				
64 or younger	7	734	1	100.0	2	0.5	0	0.0	0	0.0	0				
65-74	39,779	2,382,427	588	42.9	6,677	0.6	786	57.3	8,889	0.7	43				
75-84	94,808	5,420,112	1,679	43.3	19,051	0.6	2,021	52.2	22,936	0.7	42				
85 and older	112,357	5,906,470	2,483	39.8	27,810	0.6	2,582	41.4	29,016	0.7	38				
Male	78,294	4,511,949	1,561	46.3	17,552	0.6	1,441	42.8	16,221	0.7	44				
Disabled	21,203	1,343,710	366	48.7	4,232	0.6	325	43.2	3,814	0.7	51				
64 or younger	21,068	1,333,256	360	48.4	4,169	0.6	324	43.5	3,802	0.7	51				
65-74	83	7,489	3	100.0	27	0.4	0	0.0	0	0.0	0				
75-84	52	2,965	3	60.0	36	0.3	1	20.0	12	0.3	26				
85 and older	0	0	0	0.0	0	0.0	0	0.0	0	0.0	0				
Other Eligibles	57,091	3,168,239	1,195	45.6	13,320	0.6	1,116	42.6	12,407	0.7	42				
64 or younger	31	2,059	1	33.3	12	0.8	0	0.0	0	0.0	0				
65-74	21,231	1,213,496	382	48.5	4,337	0.6	381	48.4	4,331	0.7	44				
75-84	22,968	1,290,613	487	46.5	5,462	0.6	460	43.9	5,097	0.7	42				
85 and older	12,861	662,071	325	41.7	3,509	0.6	275	35.3	2,979	0.7	38				
Unknown	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 North Carolina, 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 13,808 beneficiaries who were in nursing facilities for part of their enrollment and their 135,944 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}
 NORTH CAROLINA, 1999

Beneficiary Characteristics	ANTIPSYCHOTICS					ANTIHYPERTENSIVE					ANTICONVULSANT				
	Users as %		No. of Bene		Mean No. of Rx	Users as %		No. of Bene		Mean No. of Rx	Users as %		No. of Bene		Mean No. of Rx
	No. of Users	Residents	All-Year	NF		Residents	All-Year	NF	Residents		All-Year	NF	Residents	All-Year	
All	4,278	27.3 %	48,335	0.6	\$63	5,273	33.6 %	59,296	0.7	\$28	3,503	22.3 %	39,864	0.8	\$41
Female	3,389	27.5	38,456	0.6	63	4,058	32.9	45,742	0.7	27	2,408	19.5	27,340	0.8	39
Disabled	257	30.6	2,965	0.7	80	275	32.7	3,158	0.7	32	457	54.3	5,290	0.9	57
64 or younger	233	29.4	2,699	0.7	80	253	31.9	2,929	0.8	32	448	56.5	5,202	0.9	57
65-74	10	45.5	113	0.6	88	18	81.8	181	0.7	29	5	22.7	42	0.7	39
75-84	8	100.0	96	0.7	72	0	0.0	0	0.0	0	4	50.0	46	0.8	51
85 and older	6	33.3	57	0.6	39	4	22.2	48	0.8	27	0	0.0	0	0.0	0
Other Eligibles	3,132	27.3	35,491	0.6	62	3,783	33.0	42,584	0.7	27	1,951	17.0	22,050	0.8	35
64 or younger	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0
65-74	493	35.9	5,595	0.7	83	530	38.6	6,087	0.7	29	481	35.1	5,504	0.8	41
75-84	1,254	32.4	14,359	0.6	64	1,378	35.6	15,685	0.7	27	816	21.1	9,318	0.8	36
85 and older	1,385	22.2	15,537	0.6	51	1,875	30.1	20,812	0.7	26	654	10.5	7,228	0.7	29
Male	889	26.4	9,879	0.6	63	1,215	36.1	13,554	0.7	30	1,095	32.5	12,524	0.8	45
Disabled	159	21.1	1,860	0.7	84	287	38.2	3,353	0.7	34	440	58.5	5,202	0.9	60
64 or younger	157	21.1	1,836	0.7	83	283	38.0	3,305	0.7	34	439	59.0	5,190	0.9	60
65-74	1	33.3	12	1.0	316	2	66.7	24	1.0	61	0	0.0	0	0.0	0
75-84	1	20.0	12	0.1	7	2	40.0	24	0.8	25	1	20.0	12	0.1	3
85 and older	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0.0	0	0.0	0
Other Eligibles	730	27.9	8,019	0.6	58	928	35.4	10,201	0.7	29	655	25.0	7,322	0.8	35
64 or younger	0	0.0	0	0.0	0	0	0.0	0	0.0	0	1	33.3	12	0.9	26
65-74	240	30.5	2,794	0.6	71	317	40.2	3,651	0.8	31	285	36.2	3,239	0.9	41
75-84	312	29.8	3,340	0.6	58	378	36.1	4,057	0.7	30	263	25.1	2,902	0.8	31
85 and older	178	22.8	1,885	0.5	41	233	29.9	2,493	0.7	26	106	13.6	1,169	0.7	29
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 North Carolina, 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 13,808 beneficiaries who were in nursing facilities for part of their enrollment and their 135,944 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}
 NORTH CAROLINA, 1999

Beneficiary Characteristics	ANTIDIABETIC					ANTI-ANXIETY AGENTS					CALCIUM BLOCKERS				
	Users as %					Users as %					Users as %				
	No. of Users	No. of Bene Mos among NF Residents	Mean No. of Rx	Mean Rx \$	Mean No. of Rx	No. of Users	No. of Bene Mos among NF Residents	Mean No. of Rx	Mean Rx \$	Mean No. of Rx	No. of Users	No. of Bene Mos among NF Residents	Mean No. of Rx	Mean Rx \$	Mean No. of Rx
All	4,761	30.3 %	0.7	\$25	0.7	5,287	33.7 %	0.5	\$22	0.5	3,274	20.9 %	\$22	0.7	\$35
Female	3,746	30.4	0.7	25	0.7	4,193	34.0	0.5	22	0.5	2,651	21.5	22	29,913	35
Disabled	317	37.7	0.8	36	0.8	314	37.3	0.6	23	0.6	157	18.7	23	1,829	40
64 or younger	296	37.3	0.8	36	0.8	299	37.7	0.6	23	0.6	146	18.4	23	1,705	40
65-74	18	81.8	0.9	46	0.9	9	40.9	0.5	15	0.5	6	27.3	15	66	40
75-84	0	0.0	0.0	0	0.0	3	37.5	0.8	50	0.8	3	37.5	50	34	59
85 and older	3	16.7	0.2	10	0.2	3	16.7	0.3	2	0.3	2	11.1	2	24	31
Other Eligibles	3,429	29.9	0.7	24	0.7	3,879	33.8	0.5	22	0.5	2,494	21.7	22	28,084	34
64 or younger	0	0.0	0.0	0	0.0	0	0.0	0.0	0	0.0	0	0.0	0	0	0
65-74	647	47.2	0.7	28	0.7	541	39.4	0.5	23	0.5	312	22.7	23	3,580	38
75-84	1,456	37.6	0.7	25	0.7	1,431	36.9	0.5	24	0.5	909	23.5	24	10,375	35
85 and older	1,326	21.3	0.6	21	0.6	1,907	30.6	0.5	20	0.5	1,273	20.4	20	14,129	33
Male	1,015	30.1	0.7	25	0.7	1,094	32.5	0.5	21	0.5	623	18.5	21	6,995	36
Disabled	240	31.9	0.7	27	0.7	265	35.2	0.5	20	0.5	130	17.3	20	1,507	40
64 or younger	238	32.0	0.7	27	0.7	262	35.2	0.5	20	0.5	129	17.3	20	1,495	40
65-74	2	66.7	0.7	67	0.7	1	33.3	0.3	2	0.3	0	0.0	2	0	0
75-84	0	0.0	0.0	0	0.0	2	40.0	0.3	3	0.3	1	20.0	3	12	51
85 and older	0	0.0	0.0	0	0.0	0	0.0	0.0	0	0.0	0	0.0	0	0	0
Other Eligibles	775	29.6	0.7	25	0.7	829	31.7	0.5	22	0.5	493	18.8	22	5,488	35
64 or younger	0	0.0	0.0	0	0.0	0	0.0	0.0	0	0.0	1	33.3	0	12	45
65-74	263	33.4	0.7	27	0.7	257	32.6	0.5	22	0.5	175	22.2	22	2,009	37
75-84	340	32.5	0.7	25	0.7	334	31.9	0.5	22	0.5	209	20.0	22	2,300	37
85 and older	172	22.1	0.7	22	0.7	238	30.5	0.4	21	0.4	108	13.8	21	1,167	29
Unknown	0	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 North Carolina, 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 13,808 beneficiaries who were in nursing facilities for part of their enrollment and their 135,944 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}
 NORTH CAROLINA, 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	6,253	39.9 %	69,984	0.4	\$17	10,634	67.8 %	122,104	0.2	\$10	15,690	173,659
Female	5,069	41.1	56,733	0.4	18	8,161	66.2	93,639	0.2	10	12,320	136,373
Disabled	385	45.8	4,420	0.4	20	679	80.7	7,912	0.2	13	841	9,636
64 or younger	365	46.0	4,205	0.4	21	649	81.8	7,609	0.2	14	793	9,137
65-74	9	40.9	85	0.4	23	18	81.8	165	0.2	11	22	204
75-84	5	62.5	58	0.4	9	5	62.5	54	0.2	4	8	94
85 and older	6	33.3	72	0.4	5	7	38.9	84	0.1	5	18	201
Other Eligibles	4,684	40.8	52,313	0.4	17	7,482	65.2	85,727	0.2	9	11,479	126,737
64 or younger	1	100.0	2	3.0	275	0	0.0	0	0.0	0	1	2
65-74	647	47.2	7,325	0.4	23	905	66.0	10,529	0.2	12	1,372	15,453
75-84	1,649	42.6	18,459	0.4	20	2,535	65.4	29,174	0.2	9	3,874	43,287
85 and older	2,387	38.3	26,527	0.4	14	4,042	64.9	46,024	0.2	9	6,232	67,995
Male	1,184	35.1	13,251	0.4	16	2,473	73.4	28,465	0.2	11	3,370	37,286
Disabled	282	37.5	3,312	0.4	15	685	91.1	8,117	0.2	12	752	8,708
64 or younger	280	37.6	3,297	0.4	15	683	91.8	8,093	0.2	12	744	8,621
65-74	2	66.7	15	1.2	25	1	33.3	12	0.1	3	3	27
75-84	0	0.0	0	0.0	0	1	20.0	12	0.1	1	5	60
85 and older	0	0.0	0	0.0	0	0	0.0	0	0.0	0	0	0
Other Eligibles	902	34.5	9,939	0.4	16	1,788	68.3	20,348	0.2	10	2,618	28,578
64 or younger	0	0.0	0	0.0	0	1	33.3	12	0.1	1	3	36
65-74	301	38.2	3,448	0.5	20	586	74.4	6,844	0.2	10	788	8,945
75-84	357	34.1	3,891	0.3	16	709	67.7	7,974	0.2	10	1,047	11,438
85 and older	244	31.3	2,600	0.3	12	492	63.1	5,518	0.2	10	780	8,159
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 North Carolina, 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 13,808 beneficiaries who were in nursing facilities for part of their enrollment and their 135,944 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}
NORTH CAROLINA, 1999

Beneficiary Characteristics	No. of Benes					No. of Bene Mos						
	All	Aged	Disabled	Adults	Children	Unknown	All	Aged	Disabled	Adults	Children	Unknown
All	1,139,505	140,267	204,524	192,023	602,691	0	10,553,613	1,520,824	2,206,284	1,362,423	5,464,082	0
Age												
5 and younger	280,593	0	7,597	7	272,989	0	2,471,002	0	79,786	25	2,391,191	0
6-14	269,589	8	21,232	131	248,218	0	2,585,978	96	237,959	619	2,347,304	0
15-20	118,896	1	12,494	25,742	80,659	0	1,031,817	12	136,507	172,963	722,335	0
21-44	229,048	17	70,848	157,369	814	0	1,891,374	197	767,476	1,120,475	3,226	0
45-64	100,422	135	91,555	8,732	0	0	1,046,366	1,481	976,865	68,020	0	0
65-74	55,684	55,103	545	36	0	0	611,751	606,513	4,956	282	0	0
75-84	52,163	52,001	157	5	0	0	570,879	569,115	1,726	38	0	0
85 and older	33,100	33,002	96	1	1	0	344,424	343,410	1,009	1	4	0
Unknown	10	0	0	0	10	0	22	0	0	0	22	0
Gender												
Female	696,773	108,278	106,174	179,513	302,808	0	6,382,175	1,180,672	1,159,785	1,289,509	2,752,209	0
Male	442,732	31,989	98,350	12,510	299,883	0	4,171,438	340,152	1,046,499	72,914	2,711,873	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Race												
White	484,427	71,218	85,082	84,810	243,317	0	4,330,736	758,118	907,299	558,803	2,106,516	0
African American	501,588	49,080	81,133	89,570	281,805	0	4,816,376	543,424	888,993	699,214	2,684,745	0
Other/unknown	153,490	19,969	38,309	17,643	77,569	0	1,406,501	219,282	409,992	104,406	672,821	0
Use of Nursing Facilities												
All year	15,691	14,096	1,594	1	0	0	173,725	155,313	18,410	2	0	0
Part year	13,812	11,884	1,916	11	1	0	136,107	116,142	19,848	108	9	0
None	1,110,002	114,287	201,014	192,011	602,690	0	10,243,781	1,249,369	2,168,026	1,362,313	5,464,073	0
Maintenance Assistance Status												
Cash	398,390	74,558	147,233	58,540	118,059	0	4,112,129	836,587	1,656,020	473,006	1,146,516	0
Medically needy	8,275	4,417	1,831	1,444	583	0	74,744	42,440	17,252	10,616	4,436	0
Poverty related	595,637	61,289	55,457	61,889	417,002	0	5,213,737	641,778	533,000	342,121	3,696,838	0
Other/unknown	137,203	3	3	70,150	67,047	0	1,153,003	19	12	536,680	616,292	0
Dual Status^c												
Full dual, all year	204,184	131,619	71,368	1,172	25	0	2,236,492	1,435,907	790,799	9,558	228	0
Full dual, part year	8,381	5,466	2,902	13	0	0	93,934	61,237	32,549	148	0	0
Non-dual, all year	926,940	3,182	130,254	190,838	602,666	0	8,223,187	23,680	1,382,936	1,352,717	5,463,854	0
Managed Care Status												
FFS all year	932,730	140,187	189,670	179,605	423,268	0	8,512,951	1,519,879	2,038,788	1,259,136	3,695,148	0
FFS part year, with Rx claims	112,954	69	8,972	6,298	97,615	0	1,233,767	813	104,184	56,937	1,071,833	0
FFS part year, no Rx claims	52,596	7	2,171	1,990	48,428	0	528,957	84	24,327	14,260	490,286	0
MC all year, with Rx claims	20,570	4	2,716	2,853	14,997	0	169,053	48	30,650	25,638	112,717	0
MC all year, no Rx claims	20,655	0	995	1,277	18,383	0	108,885	0	8,335	6,452	94,098	0

Source: Data for this table are from the MAX 1999 file for North Carolina, 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
 NORTH CAROLINA, 1999

	Benes and					
	Bene Mos in Cell B of Table 1		Included in Cell C of Table 1		Excluded from Cell C of Table 1	
	No. of Benes	No. of Bene Mos	No. of Benes	No. of Bene Mos	No. of Benes	No. of Bene Mos
All	1,139,505	10,553,613	1,098,280	9,364,837	41,225	1,188,776
FFS all year	932,730	8,512,951	932,730	8,512,951	0	0
FFS part year, with Rx claims	112,954	1,233,767	112,954	598,449	0	635,318
FFS part year, with no Rx claims	52,596	528,957	52,596	253,437	0	275,520
MC all year, with Rx claims	20,570	169,053	0	0	20,570	169,053
MC all year, with no Rx claims	20,655	108,885	0	0	20,655	108,885

Source: Data for this table are from the MAX 1999 file for North Carolina, 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.