



K

MEDICARE COSTS
FOR ESRD



K Medicare costs for esrd

K.1 . 372

Total Medicare costs (\$) of reported ESRD per calendar year
all ESRD patients with at least one Medicare claim, by age, gender, race, ethnicity, & primary diagnosis

K.2 . 375

Total Medicare costs (\$) of reported ESRD patients: by claim type
period prevalent ESRD patients

K.3 . 377

Medicare costs (\$) for ESRD patients: by payor status & claim type
period prevalent ESRD patients, as-treated model

K.4 . 379

Per person per year costs: ESRD patients, with unknowns dropped (Model 1)
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K.5 . 380

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K.8 . 383

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period prevalent ESRD patients, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

K.10 . 385

Per person per year costs: transplant event within the year (Model 2)
period prevalent ESRD patients, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

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Part B Medicare costs per person per year: by physician/supplier specialty
period prevalent patients, as-treated model; Medicare primary payor only

Table K.1

Total Medicare costs (\$) of reported ESRD per calendar year

all ESRD patients with at least one Medicare claim, by age, gender, race, ethnicity, & primary diagnosis

	1991	1992	1993	1994	1995	1996	1997
0-4	7,932,840	9,452,541	9,643,104	9,987,280	10,950,061	11,041,207	10,778,155
5-9	10,247,576	8,111,301	9,083,726	11,013,801	9,350,740	10,741,040	10,967,716
10-14	16,940,507	17,404,134	17,695,647	19,157,015	19,687,860	19,168,826	20,320,259
15-19	41,038,868	40,574,516	41,504,985	46,546,025	47,071,743	48,212,022	46,664,157
20-29	268,654,501	282,508,775	305,059,699	324,047,126	335,737,707	353,151,212	354,064,469
30-39	554,058,327	619,968,650	680,263,267	758,865,453	815,293,226	864,143,925	886,031,798
40-49	708,807,875	816,375,341	912,880,264	1,039,412,297	1,179,878,810	1,343,733,778	1,429,438,840
50-59	876,729,455	1,005,006,265	1,146,191,959	1,319,504,443	1,475,518,135	1,681,995,505	1,824,949,993
60-64	615,328,776	691,427,969	756,323,889	843,398,648	936,044,317	1,056,504,472	1,128,021,750
65-69	832,023,683	960,036,370	1,072,229,174	1,228,010,998	1,357,355,377	1,509,234,869	1,592,977,055
70-79	1,192,493,628	1,439,731,699	1,619,775,374	1,910,812,576	2,203,327,744	2,531,109,501	2,763,438,509
80+	331,413,255	399,605,111	482,776,858	588,297,968	692,199,131	825,500,306	934,666,925
Unknown	753,633	877,334	211,716	494,184	816,812	311,214	269,172
0-19	76,159,790	75,542,492	77,927,462	86,704,121	87,060,404	89,163,096	88,730,286
20-44	1,173,461,313	1,301,664,073	1,426,172,009	1,575,807,432	1,700,968,383	1,832,216,515	1,887,781,812
45-64	1,850,117,622	2,113,622,927	2,374,547,069	2,709,420,534	3,041,503,811	3,467,312,377	3,734,725,039
65-74	1,534,226,387	1,806,294,090	2,031,529,195	2,358,432,907	2,651,883,363	2,973,610,509	3,163,580,648
75+	821,704,179	993,079,090	1,143,252,211	1,368,688,634	1,600,998,888	1,892,234,167	2,127,501,841
Unknown	753,633	877,334	211,716	494,184	816,812	311,214	269,172
Male	2,754,749,052	3,182,057,431	3,563,706,197	4,096,902,075	4,567,354,302	5,158,539,926	5,550,043,624
Female	2,701,667,285	3,108,998,865	3,489,886,571	4,002,636,341	4,515,877,360	5,096,307,950	5,452,545,174
Unknown	6,587	23,709	46,894	9,395			
White	3,394,756,050	3,869,749,291	4,283,185,316	4,850,285,286	5,405,360,868	6,042,908,684	6,456,412,861
Black	1,895,459,999	2,223,058,429	2,525,705,361	2,953,712,314	3,322,245,801	3,769,604,124	4,045,925,323
Native American	57,999,329	68,585,749	84,131,137	99,403,463	112,571,926	131,442,375	140,341,880
Asian	105,317,952	127,790,401	158,681,414	191,406,895	224,201,745	267,072,464	295,782,144
Other/unknown	2,889,593	1,896,137	1,936,433	4,739,853	18,851,322	43,820,229	64,126,590
†Hispanic						961,103,277	1,103,479,032
†Non-Hispanic						6,573,502,717	7,852,398,709
Unknown						2,720,241,882	2,046,711,057
Diabetes	1,750,437,949	2,113,910,695	2,478,176,089	2,930,574,482	3,419,670,135	4,043,211,487	4,478,929,530
Hypertension	1,621,617,409	1,905,645,087	2,153,544,949	2,471,562,344	2,710,527,310	2,946,794,611	3,095,563,557
Glomerulonephritis	886,606,755	969,697,651	1,047,855,969	1,171,129,466	1,285,095,280	1,396,829,046	1,456,585,652
Other cause	926,279,764	1,030,191,062	1,098,938,710	1,223,459,211	1,354,398,034	1,519,109,886	1,601,134,655
Unknown	271,481,047	271,635,512	275,123,945	302,822,308	313,540,902	348,902,846	370,375,404
All	5,456,422,924	6,291,080,006	7,053,639,661	8,099,547,812	9,083,231,662	10,254,847,876	11,002,588,798

Includes all Medicare costs, beginning with the date of first ESRD service.

Age is calculated as of January 1 of each calendar year.

Medicare hospital pass-through costs for indirect medical education, organ acquisition, etc. are included.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

K Medicare costs for esrd

Table K.1 (continued)

Total Medicare costs (\$) of reported ESRD per calendar year

all ESRD patients with at least one Medicare claim, by age, gender, race, ethnicity, & primary diagnosis

	1998	1999	2000	2001	2002	2003	2004
0-4	8,762,403	7,821,650	7,696,604	7,944,610	9,964,462	11,288,759	12,995,035
5-9	11,295,331	9,365,643	9,530,936	9,803,473	10,296,129	10,457,713	9,985,008
10-14	18,833,572	17,052,647	16,661,912	18,312,853	21,116,573	24,476,798	23,549,397
15-19	47,679,652	45,099,076	46,921,462	49,300,815	53,225,675	54,250,642	57,135,438
20-29	345,861,020	351,589,206	354,636,491	377,256,738	394,294,243	403,261,118	420,809,682
30-39	851,654,721	865,294,120	898,160,081	974,182,884	1,040,146,533	1,065,466,041	1,138,488,949
40-49	1,424,029,036	1,483,805,332	1,602,863,160	1,781,779,455	1,943,089,541	2,052,733,932	2,250,583,341
50-59	1,861,290,534	1,981,982,157	2,198,007,117	2,503,594,076	2,826,822,187	3,060,047,601	3,389,063,608
60-64	1,140,227,577	1,187,897,248	1,287,588,996	1,457,182,903	1,627,427,998	1,783,349,275	1,966,842,170
65-69	1,601,100,249	1,617,947,851	1,718,276,807	1,926,383,122	2,170,428,169	2,307,439,359	2,499,392,248
70-79	2,884,093,296	3,012,452,791	3,245,398,563	3,648,782,297	3,995,803,677	4,193,763,851	4,500,155,869
80+	1,004,300,264	1,089,539,327	1,219,066,253	1,447,447,064	1,691,776,786	1,864,751,385	2,092,713,066
Unknown	269,229	336,895	602,980	228,425	738,939	696,840	936,418
0-19	86,570,958	79,339,015	80,810,914	85,361,752	94,602,839	100,473,912	103,664,878
20-44	1,847,111,828	1,885,929,993	1,965,118,479	2,138,032,561	2,290,914,851	2,352,011,912	2,514,799,693
45-64	3,775,951,059	3,984,638,070	4,376,137,366	4,955,963,496	5,540,865,651	6,012,846,055	6,650,988,057
65-74	3,213,808,223	3,272,415,601	3,483,531,248	3,897,970,825	4,308,749,262	4,541,647,246	4,879,668,313
75+	2,275,685,585	2,447,524,368	2,699,210,374	3,124,641,657	3,549,259,371	3,824,307,349	4,212,592,870
Unknown	269,229	336,895	602,980	228,425	738,939	696,840	936,418
Male	5,674,365,374	5,925,235,034	6,427,796,572	7,266,134,013	8,128,704,937	8,725,118,826	9,582,178,527
Female	5,525,031,507	5,744,948,908	6,177,601,127	6,936,062,688	7,656,425,734	8,106,864,170	8,780,201,051
Unknown			13,663	2,015	241	319	270,650
White	6,516,584,861	6,698,756,386	7,246,502,304	8,191,815,736	9,092,697,348	9,679,866,598	10,551,053,196
Black	4,148,715,000	4,387,178,489	4,713,825,790	5,288,006,850	5,852,402,319	6,258,923,214	6,818,247,269
Native American	145,739,683	164,033,111	172,782,006	189,210,734	215,019,637	225,619,015	243,375,656
Asian	311,783,733	336,562,822	376,470,763	428,321,894	500,690,447	529,733,457	581,573,286
Other/unknown	76,573,605	83,653,135	95,830,499	104,843,501	124,321,161	137,841,030	168,400,822
†Hispanic	1,173,196,168	1,259,814,123	1,435,405,173	1,662,121,177	1,905,990,494	2,098,395,018	2,320,365,603
†Non-Hispanic	8,570,064,603	9,364,823,255	10,425,931,166	11,994,536,181	13,450,030,446	14,422,279,233	15,677,160,154
Unknown	1,456,136,111	1,045,546,563	744,075,023	545,541,358	429,109,972	311,309,063	365,124,471
Diabetes	4,657,115,604	4,893,971,792	5,382,619,493	6,176,115,637	6,926,332,619	7,494,769,489	8,211,001,526
Hypertension	3,112,357,162	3,239,164,437	3,450,297,071	3,876,375,400	4,298,798,219	4,588,147,957	4,979,683,289
Glomerulonephritis	1,445,327,933	1,473,171,503	1,542,601,434	1,671,710,184	1,805,298,428	1,868,725,347	1,973,319,477
Other cause	1,604,891,398	1,666,388,182	1,793,528,142	1,996,232,784	2,207,115,427	2,324,919,196	2,509,375,657
Unknown	379,704,785	397,488,029	436,365,221	481,764,711	547,586,219	555,421,326	689,270,280
All	11,199,396,881	11,670,183,941	12,605,411,362	14,202,198,716	15,785,130,912	16,831,983,314	18,362,650,228

Includes all Medicare costs, beginning with the date of first ESRD service.

Age is calculated as of January 1 of each calendar year.

Medicare hospital pass-through costs for indirect medical education, organ acquisition, etc. are included.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

Table K.2

Total Medicare costs (\$) of reported ESRD patients: by claim type*period prevalent ESRD patients, all ESRD patients with at least one Medicare claim*

	1991	1992	1993	1994	1995	1996	1997
Patients	196,853	214,829	230,379	254,198	267,967	284,825	302,376
Patient years at risk	163,202	177,971	192,625	211,683	224,486	238,516	252,737
Total Medicare	5,456,422,924	6,291,080,006	7,053,639,661	8,099,547,812	9,083,231,662	10,254,847,876	11,002,588,798
Total inpatient (\$) <ul style="list-style-type: none"> Medical DRG Surgical DRG Other DRG Transplant DRG Non-transplant pass-throughs Transplant pass-throughs 	2,245,555,335 697,957,111 1,208,565,166 23,624,965 124,695,015 179,588,938 11,124,140	2,662,696,919 887,527,677 1,440,325,786 22,113,751 139,237,325 163,508,279 9,984,101	2,896,514,284 1,005,672,294 1,548,171,166 21,797,969 158,532,273 152,055,187 10,285,394	3,268,292,100 1,161,950,802 1,746,338,757 24,276,908 172,319,830 153,463,486 9,942,317	3,600,169,054 1,338,859,949 1,908,487,483 23,774,200 188,951,602 131,189,648 8,906,174	4,049,189,976 1,570,019,317 2,118,290,122 27,149,693 196,474,794 129,644,757 7,611,294	4,356,736,221 1,765,709,844 2,214,228,008 33,630,078 190,570,762 144,650,008 7,947,521
Total outpatient (\$) <ul style="list-style-type: none"> Outpatient hemodialysis Outpatient peritoneal dialysis Outpatient other dialysis Outpatient ESA Outpatient vitamin D hormones Outpatient iron Outpatient other injectables Radiology Pharmacy Ambulance Laboratory/pathology Outpatient other 	1,894,794,556 1,225,765,727 156,770,064 454,062 245,747,162 138 0 22,098 30,239,689 56,584,789 2,373,126 67,931,381 108,906,320	2,158,792,272 1,317,231,907 172,191,377 247,691 338,833,194 5,292,236 81,420 288,952 37,057,719 71,650,465 2,889,000 80,609,354 132,418,956	2,528,847,406 1,484,746,319 199,482,430 272,979 422,131,329 34,196,523 13,422,700 5,206,423 41,164,779 75,819,786 3,314,747 87,882,130 161,207,262	2,846,257,411 1,640,421,715 225,252,889 288,834 469,705,929 72,227,333 34,659,946 13,207,224 47,530,437 51,144,410 4,238,092 94,230,821 193,349,782	3,196,839,517 1,769,196,948 243,219,289 250,625 567,509,067 92,312,552 49,468,815 18,640,712 56,066,021 62,704,569 4,911,625 101,412,077 231,147,217	3,648,935,466 1,961,847,461 241,854,299 371,467 701,856,264 117,963,965 85,259,178 25,291,539 69,157,616 61,580,716 5,555,859 107,765,642 270,431,459	3,878,252,988 2,098,208,409 222,736,467 399,800 735,575,935 133,431,951 121,719,301 32,291,170 74,077,357 64,381,340 6,545,847 109,802,455 279,082,957
Skilled nursing facility	32,525,580	51,244,863	72,963,375	115,146,030	162,660,948	228,057,912	285,358,131
Home health agency	63,469,150	101,260,516	149,508,779	216,947,045	288,839,759	348,870,855	382,307,614
Hospice	2,073,334	3,878,749	5,471,838	7,774,819	8,542,776	10,107,330	12,177,878
Total physician/supplier (\$) <ul style="list-style-type: none"> Transplant surgery Inpatient surgery Outpatient surgery ~E&M nephrology inpatient ~E&M nephrology outpatient ~E&M non-nephrology inpatient ~E&M non-nephrology outpatient Dialysis capitation Inpatient dialysis Home dialysis Vascular access Peritoneal access Physician/supplier ESA Physician/supplier iron Immunosuppressive drugs Durable medical equipment Physician/supplier radiology Physician/supplier lab/pathology Physician/supplier ambulance Other physician/supplier 	1,218,004,969 18,435,785 106,509,647 42,648,132 53,389 6,115,674 463,816 16,076,060 135,259,174 107,652,332 111,822,108 92,377,656 3,368,889 1,072,898 10,678 2,522,115 69,688,466 40,645,305 105,461,469 43,165,357 314,656,019	1,313,206,686 15,120,155 99,862,581 44,050,013 45,865,996 6,538,863 92,116,070 31,880,686 158,128,697 105,424,653 126,814,136 98,485,834 3,014,801 1,363,383 5,829 2,000,974 88,616,073 37,038,916 126,108,562 54,585,024 176,185,439	1,400,333,979 15,915,079 101,274,081 50,575,443 53,268,899 7,648,492 103,346,349 38,498,199 179,035,275 104,387,475 117,062,129 107,826,561 3,062,610 1,620,598 32,097 1,703,549 89,843,623 37,770,764 148,329,958 60,500,927 178,631,873	1,645,130,406 18,361,775 120,847,504 64,177,953 62,821,146 9,322,720 130,638,708 51,000,058 215,087,445 112,677,905 127,949,708 127,439,982 3,413,323 1,291,888 67,500 12,872,227 88,014,217 43,973,811 170,322,674 77,586,051 207,263,813	1,826,179,607 20,077,987 135,253,773 79,878,807 69,364,861 11,041,324 154,974,440 63,989,841 251,090,107 118,218,035 123,885,873 146,038,222 5,279,565 1,330,730 87,539 23,378,803 68,896,407 48,821,522 193,432,967 180,629,812 130,508,990	1,969,686,337 19,151,188 133,382,608 84,817,055 71,398,925 11,040,543 169,197,601 69,921,235 328,366,987 110,298,256 132,438,651 145,762,815 5,516,690 1,537,076 85,709 31,719,543 73,433,227 50,417,836 205,759,347 187,090,838 138,350,208	2,087,755,966 18,999,582 136,662,130 89,647,583 76,902,351 11,634,710 192,960,031 80,999,171 288,808,221 104,354,392 135,837,335 156,742,468 4,958,856 1,572,372 97,223 41,943,351 86,498,851 50,955,138 211,341,188 197,377,986 199,463,028

ESA: erythropoiesis stimulating agent.

~E & M: evaluation & management.

Includes all Medicare costs, beginning with the date of first ESRD service.

Medicare hospital pass-through costs for indirect medical education, organ acquisition, etc. are included.

K Medicare costs for esrd

Table K.2 (continued)

Total Medicare costs (\$) of reported ESRD patients: by claim type

period prevalent ESRD patients, all ESRD patients with at least one Medicare claim

	1998	1999	2000	2001	2002	2003	2004
Patients	315,824	329,651	346,238	364,559	388,784	398,405	420,270
Patient years at risk	263,725	275,464	289,993	305,170	324,795	332,964	354,259
Total Medicare	11,199,396,881	11,670,183,941	12,605,411,362	14,202,198,716	15,785,130,912	16,831,983,314	18,362,650,228
Total inpatient (\$)	4,427,798,661	4,711,334,378	4,959,985,124	5,527,560,527	6,101,092,926	6,289,134,264	6,699,571,501
Medical DRG	1,908,187,355	2,104,597,484	2,226,171,817	2,507,744,402	2,723,429,483	2,866,478,721	3,126,705,356
Surgical DRG	2,158,747,609	2,242,552,217	2,349,272,967	2,567,690,022	2,765,617,472	2,764,902,486	2,773,098,807
Other DRG	41,332,729	46,705,752	46,566,029	89,329,352	245,899,179	291,017,088	443,946,888
Transplant DRG	178,467,909	177,504,553	184,458,658	199,040,527	196,032,716	197,803,561	215,700,893
Non-transplant pass-throughs	134,480,796	134,200,812	147,980,907	157,835,585	164,624,488	162,631,990	135,155,485
Transplant pass-throughs	6,582,263	5,773,560	5,534,747	5,920,640	5,489,588	6,300,419	4,964,072
Total outpatient (\$)	4,050,255,526	4,408,298,310	4,699,176,412	5,290,012,189	5,889,006,393	6,360,536,537	6,927,949,410
Outpatient hemodialysis	2,166,739,059	2,310,459,797	2,461,840,743	2,659,787,496	2,925,717,910	3,039,565,211	3,104,599,503
Outpatient peritoneal dialysis	176,802,986	158,993,885	149,818,255	151,479,500	177,946,964	227,237,957	233,507,225
Outpatient other dialysis	440,795	706,922	687,983	630,122	690,280	1,392,819	1,845,949
Outpatient ESA	843,695,113	1,006,602,843	1,084,032,063	1,181,908,416	1,402,748,888	1,558,930,836	1,823,371,054
Outpatient vitamin D hormones	143,646,387	146,676,499	253,826,644	368,624,688	373,356,723	379,368,493	429,283,122
Outpatient iron	133,383,861	142,499,842	149,738,130	214,269,981	232,724,729	250,490,368	278,382,204
Outpatient other injectables	48,017,040	61,478,210	78,608,519	83,400,752	74,653,627	56,500,801	77,506,962
Radiology	75,697,758	79,633,517	72,052,505	87,119,300	103,721,624	142,913,280	157,158,107
Pharmacy	75,877,865	109,949,139	62,825,419	86,059,087	64,268,444	53,355,369	60,150,454
Ambulance	6,602,282	6,549,606	7,421,551	8,801,382	12,515,529	15,800,957	18,557,457
Laboratory/pathology	103,247,646	101,783,312	104,686,841	114,138,189	115,612,736	126,474,706	150,924,851
Outpatient other	276,104,734	282,964,740	273,637,760	333,793,277	405,048,938	508,505,740	592,662,522
Skilled nursing facility	311,549,748	262,976,031	295,486,587	376,585,448	436,509,032	451,797,139	557,056,096
Home health agency	265,915,715	81,836,148	233,013,128	257,383,536	290,371,274	313,110,521	347,721,322
Hospice	13,630,013	16,678,373	19,759,452	26,524,496	34,788,361	43,216,011	88,348,048
Total physician/supplier (\$)	2,130,247,218	2,189,060,701	2,397,990,659	2,724,132,519	3,033,362,925	3,374,188,842	3,742,003,852
Transplant surgery	17,793,490	16,842,576	17,041,176	18,047,452	18,462,544	19,440,541	19,801,137
Inpatient surgery	130,121,012	122,773,068	135,502,817	145,381,071	148,518,242	158,970,135	163,789,513
Outpatient surgery	89,545,113	88,365,344	100,267,713	112,017,401	121,047,658	135,385,558	150,477,928
~E&M nephrology inpatient	84,450,056	88,416,859	92,660,830	98,889,664	106,692,530	121,109,500	131,658,009
~E&M nephrology outpatient	11,727,301	12,448,158	13,915,875	14,720,091	17,327,179	19,420,545	21,348,970
~E&M non-nephrology inpatient	214,236,879	234,737,788	259,138,916	304,048,842	327,382,764	371,550,511	421,782,957
~E&M non-nephrology outpatient	88,552,225	98,353,278	117,556,887	137,038,770	152,249,418	169,285,512	192,372,876
Dialysis capitation	302,691,701	316,173,537	362,213,917	402,466,630	429,381,984	447,785,382	592,521,888
Inpatient dialysis	106,647,825	103,373,242	96,442,022	104,991,956	100,758,629	99,564,823	102,680,231
Home dialysis	135,879,323	130,268,685	136,012,745	137,867,949	108,188,586	56,751,899	52,655,760
Vascular access	162,731,902	173,727,520	177,204,787	191,961,554	201,391,774	226,367,434	235,343,805
Peritoneal access	4,250,858	3,875,102	3,778,924	3,877,403	3,611,358	3,769,525	3,665,878
Physician/supplier ESA	1,616,746	1,839,456	2,918,648	4,197,859	3,867,598	11,457,612	10,173,003
Physician/supplier iron	57,719	46,667	48,232	70,149	87,675	108,684	167,277
Immunosuppressive drugs	47,013,704	47,837,291	75,272,788	113,150,712	153,790,360	199,140,034	207,816,012
Durable medical equipment	89,037,708	93,631,563	83,076,423	91,760,022	114,939,434	133,663,086	133,185,251
Physician/supplier radiology	59,647,627	63,046,682	72,042,616	86,925,997	97,445,922	118,383,487	136,058,513
Physician/supplier lab/pathology	176,022,050	171,976,183	183,802,950	192,462,869	257,965,528	297,249,127	317,769,219
Physician/supplier ambulance	196,670,186	181,504,615	210,541,124	261,065,044	306,353,098	368,498,609	447,889,043
Other physician/supplier	211,553,791	239,823,088	258,551,270	303,191,082	363,900,645	416,286,839	400,846,583

ESA: erythropoiesis stimulating agent.

~E & M: evaluation & management.

Includes all Medicare costs, beginning with the date of first ESRD service.

Medicare hospital pass-through costs for indirect medical education, organ acquisition, etc. are included.

Table K.3

Medicare costs (\$) for ESRD patients: by payor status & claim type*period prevalent ESRD patients, as-treated model*

	1995-1999		
	All	Medicare Primary Payor	Medicare Secondary Payor
Patient modality periods	728,291	612,408	115,883
Patient years at risk	1,257,138	1,104,809	152,329
Total Medicare	51,910,645,211	49,756,008,678	2,154,636,533
Total inpatient (\$)	20,562,058,440	19,626,726,015	935,332,425
Medical DRG	8,434,419,096	8,073,385,672	361,033,424
Surgical DRG	10,358,942,782	9,920,505,131	438,437,651
Other DRG	167,503,325	159,336,283	8,167,042
Transplant DRG	909,291,356	814,538,823	94,752,534
Non-transplant pass-throughs	655,954,995	626,648,084	29,306,911
Transplant pass-throughs	35,946,885	32,312,022	3,634,863
Total outpatient (\$)	18,764,863,242	18,089,883,146	674,980,097
Outpatient hemodialysis	10,086,512,295	9,752,040,920	334,471,375
Outpatient peritoneal dialysis	1,019,922,432	972,106,988	47,815,445
Outpatient other dialysis	2,113,241	2,038,242	74,999
Outpatient ESA	3,774,420,478	3,644,090,828	130,329,650
Outpatient vitamin D hormones	620,394,628	599,475,121	20,919,507
Outpatient iron	521,425,189	503,554,507	17,870,682
Outpatient other injectables	181,035,490	174,240,234	6,795,257
Radiology	346,151,438	330,888,262	15,263,177
Pharmacy	366,412,012	349,598,445	16,813,567
Ambulance	29,446,846	28,284,106	1,162,740
Laboratory/pathology	510,816,840	482,915,981	27,900,859
Outpatient other	1,306,212,353	1,250,649,513	55,562,840
Skilled nursing facility	1,213,211,160	1,170,731,113	42,480,047
Home health agency	1,330,729,192	1,281,974,764	48,754,427
Hospice	51,611,291	49,106,968	2,504,323
Total physician/supplier (\$)	9,988,171,886	9,537,586,672	450,585,214
Transplant surgery	91,130,981	79,651,253	11,479,728
Inpatient surgery	588,002,204	559,448,973	28,553,231
Outpatient surgery	371,820,661	351,225,092	20,595,568
~E&M nephrology inpatient	382,289,845	365,689,338	16,600,507
~E&M nephrology outpatient	55,867,485	51,098,929	4,768,556
~E&M non-nephrology inpatient	943,466,346	902,836,074	40,630,272
~E&M non-nephrology outpatient	391,202,860	369,672,987	21,529,873
Dialysis capitation	1,459,273,656	1,402,486,449	56,787,207
Inpatient dialysis	531,968,998	511,840,080	20,128,919
Home dialysis	646,714,120	613,654,149	33,059,971
Vascular access	886,766,820	852,342,536	34,424,284
Peritoneal access	23,372,435	21,921,729	1,450,706
Physician/supplier ESA	7,053,538	6,561,805	491,733
Physician/supplier iron	358,097	338,737	19,360
Immunosuppressive drugs	189,277,330	170,908,186	18,369,144
Durable medical equipment	402,437,672	383,741,014	18,696,658
Physician/supplier radiology	257,781,446	244,441,164	13,340,282
Physician/supplier lab/pathology	938,339,119	901,355,067	36,984,052
Physician/supplier ambulance	924,500,927	895,419,662	29,081,265
Other physician/supplier	896,547,348	852,953,449	43,593,899

ESA: erythropoiesis stimulating agent.

~E & M: evaluation & management.

The payment values include pro-rated Medicare costs, starting on the date of Medicare entitlement, as determined by the USRDS payor sequence.

Patients are at risk until death, loss of Medicare entitlement, or the end of the period.

Dialysis modality change or transplant results in a new modality period.

K Medicare costs for esrd

Table K.3 (continued)

Medicare costs (\$) for ESRD patients: by payor status & claim type

period prevalent ESRD patients, as-treated model

	2000-2004		
	All	Medicare Primary Payor	Medicare Secondary Payor
Patient modality periods	878,416	741,977	136,439
Patient years at risk	1,605,049	1,392,563	212,486
Total Medicare	76,406,980,820	73,205,296,638	3,201,684,182
Total inpatient (\$)	28,910,058,884	27,601,144,728	1,308,914,156
Medical DRG	13,131,787,828	12,552,793,701	578,994,127
Surgical DRG	12,936,754,499	12,358,003,518	578,750,982
Other DRG	1,088,542,394	1,037,489,983	51,052,412
Transplant DRG	974,165,552	911,164,357	63,001,194
Non-transplant pass-throughs	751,243,927	715,954,537	35,289,389
Transplant pass-throughs	27,564,684	25,738,632	1,826,052
Total outpatient (\$)	28,861,271,310	27,814,361,066	1,046,910,244
Outpatient hemodialysis	14,206,151,601	13,717,612,118	488,539,483
Outpatient peritoneal dialysis	934,617,207	898,424,715	36,192,492
Outpatient other dialysis	5,547,195	5,323,484	223,710
Outpatient ESA	6,822,076,941	6,575,760,866	246,316,075
Outpatient vitamin D hormones	1,781,023,464	1,718,082,914	62,940,550
Outpatient iron	1,147,162,457	1,107,696,281	39,466,176
Outpatient other injectables	364,747,208	349,637,394	15,109,815
Radiology	531,467,895	508,773,499	22,694,396
Pharmacy	225,482,304	215,683,008	9,799,296
Ambulance	62,202,783	59,495,921	2,706,863
Laboratory/pathology	566,434,882	538,885,664	27,549,218
Outpatient other	2,214,357,373	2,118,985,203	95,372,171
Skilled nursing facility	2,065,871,826	1,976,807,749	89,064,077
Home health agency	1,407,285,947	1,351,159,738	56,126,209
Hospice	181,467,578	172,596,215	8,871,363
Total physician/supplier (\$)	14,981,025,276	14,289,227,142	691,798,134
Transplant surgery	91,335,787	83,746,162	7,589,625
Inpatient surgery	683,223,302	647,988,198	35,235,105
Outpatient surgery	549,290,185	519,275,926	30,014,260
~E&M nephrology inpatient	541,258,379	515,995,220	25,263,159
~E&M nephrology outpatient	83,871,330	77,141,788	6,729,542
~E&M non-nephrology inpatient	1,650,826,949	1,574,809,894	76,017,055
~E&M non-nephrology outpatient	748,248,176	706,856,714	41,391,462
Dialysis capitation	1,616,723,215	1,550,669,062	66,054,152
Inpatient dialysis	496,091,102	474,312,956	21,778,146
Home dialysis	484,284,222	464,196,588	20,087,635
Vascular access	1,148,993,991	1,100,443,557	48,550,434
Peritoneal access	18,358,958	17,266,836	1,092,122
Physician/supplier ESA	30,008,172	28,176,097	1,832,075
Physician/supplier iron	453,538	428,293	25,246
Immunosuppressive drugs	736,701,611	688,387,224	48,314,387
Durable medical equipment	544,259,431	520,973,765	23,285,665
Physician/supplier radiology	476,492,569	451,896,097	24,596,473
Physician/supplier lab/pathology	1,225,858,947	1,178,301,209	47,557,738
Physician/supplier ambulance	1,569,830,455	1,508,227,908	61,602,548
Other physician/supplier	2,284,914,956	2,180,133,650	104,781,306

ESA: erythropoiesis stimulating agent.

~E & M: evaluation & management.

The payment values include pro-rated Medicare costs, starting on the date of Medicare entitlement, as determined by the USRDS payor sequence.

Patients are at risk until death, loss of Medicare entitlement, or the end of the period.

Dialysis modality change or transplant results in a new modality period.

Table K.4

Per person per year costs: ESRD patients, with unknowns dropped (Model 1)*period prevalent ESRD patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis*

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	33,392	39,591	38,856	35,192	38,992	42,971	39,653	38,908	39,665	37,681	39,659	46,044	48,256	55,455
5-9	25,841	20,220	21,740	26,504	23,730	26,033	26,834	26,042	21,547	22,677	26,218	27,171	30,611	31,346
10-14	23,838	24,967	24,218	26,067	26,591	25,125	25,504	24,650	21,764	21,710	23,859	28,068	32,025	35,550
15-19	25,849	25,550	27,421	29,139	29,739	28,307	27,064	29,339	27,263	28,883	31,856	34,709	36,437	39,484
20-29	27,834	28,344	29,635	30,742	31,973	33,096	32,676	32,561	33,455	33,562	36,093	38,073	39,868	42,740
30-39	28,381	29,839	30,743	32,647	33,830	34,916	34,957	34,178	34,932	35,871	38,385	40,177	41,316	43,662
40-49	30,325	31,699	32,542	34,086	36,175	38,161	37,979	37,476	38,130	39,328	42,163	44,300	45,483	48,366
50-59	33,358	35,428	36,918	39,274	40,787	43,395	43,698	42,860	43,049	44,381	47,242	49,350	50,693	53,199
60-64	36,807	38,926	39,912	42,097	44,439	46,856	47,161	46,929	46,837	47,998	51,299	53,884	55,624	57,842
65-69	42,767	45,281	46,458	48,605	50,418	53,345	54,165	53,202	52,418	53,666	56,646	59,607	61,193	63,136
70-79	45,334	48,436	49,316	51,414	53,927	57,267	58,392	57,185	56,801	58,548	62,230	64,558	66,103	68,285
80+	46,258	48,674	51,201	52,963	55,533	59,025	60,810	59,429	58,701	60,364	64,407	67,386	69,777	71,438
0-19	25,944	25,719	26,752	28,528	28,955	28,400	27,633	28,347	25,791	26,740	29,517	32,843	35,510	38,953
20-44	28,607	29,796	30,757	32,370	33,964	35,268	35,197	34,650	35,348	36,072	38,808	40,875	42,062	44,625
45-64	33,945	35,874	37,048	39,146	40,912	43,358	43,514	42,947	43,203	44,556	47,475	49,680	51,165	53,721
65-74	43,721	46,457	47,542	49,690	51,746	54,776	55,785	54,665	54,034	55,618	58,844	61,267	62,814	64,649
75+	46,077	49,028	50,535	52,474	55,206	58,779	60,102	58,894	58,414	59,962	63,932	66,850	68,811	71,032
Male	34,144	36,221	37,342	39,396	41,169	43,554	44,129	43,788	43,953	45,297	48,445	50,896	52,680	55,098
Female	38,407	40,695	42,052	44,288	46,817	49,588	50,206	49,463	49,523	50,954	54,485	57,167	58,623	61,134
White	35,357	37,382	38,467	40,369	42,605	44,958	45,692	45,197	44,905	46,252	49,439	51,905	53,585	55,981
Black	38,088	40,642	42,006	44,576	46,469	49,326	49,660	49,003	49,683	51,132	54,892	57,540	59,343	61,963
Native American	33,927	34,835	37,874	39,506	41,407	44,252	43,917	42,820	44,575	44,620	46,793	50,583	50,935	53,153
Asian	30,678	32,266	34,260	36,000	37,699	40,504	41,416	41,147	41,875	43,194	45,674	48,272	48,237	49,983
Other/unknown	33,479	23,510	24,303	40,306	56,284	55,891	53,169	53,987	53,277	57,044	57,994	60,045	59,537	61,192
†Hispanic						46,180	46,822	46,491	46,200	47,556	50,387	53,228	54,789	56,904
†Non-Hispanic						45,589	46,614	46,400	46,724	48,312	51,869	54,427	56,107	58,419
Diabetes	42,381	44,823	46,771	49,190	51,513	55,059	55,626	54,690	54,168	55,869	59,658	62,208	63,728	66,369
Hypertension	38,235	40,723	41,876	43,681	45,100	47,190	47,794	47,049	47,547	48,659	52,210	54,784	56,551	58,520
Glomerulonephritis	29,407	30,483	31,020	32,677	34,424	35,753	35,692	35,295	35,447	36,029	38,001	39,812	40,811	42,731
Other cause	31,804	33,458	33,870	35,585	38,022	40,061	40,461	39,983	40,257	41,643	44,426	46,738	48,520	50,425
Unknown cause	33,818	35,288	35,419	37,999	39,303	41,520	42,039	41,986	41,863	43,168	44,886	47,724	47,818	53,226
All	36,152	38,326	39,560	41,700	43,822	46,382	46,970	46,436	46,551	47,920	51,235	53,775	55,398	57,841

Model 1: As-treated actuarial model, the standard USRDS as-treated economic model in which all costs are attributed to the patient's modality at the time the costs are incurred. In the case of a modality change, the costs incurred after the change are attributed to the new modality. See Appendix A (Volume I) for further details.

Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

K Medicare costs for esrd

Table K.5

Per person per year costs: dialysis patients, with unknowns dropped (Model 1)

period prevalent ESRD patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	40,575	62,071	51,547	47,038	58,102	54,396	52,639	52,848	51,922	52,753	56,143	59,505	65,090	78,454
5-9	42,348	35,961	40,545	43,180	39,270	46,150	52,920	51,402	44,623	50,603	50,460	50,165	47,428	51,300
10-14	37,452	37,844	39,549	42,589	43,657	43,365	42,655	42,925	39,271	40,464	43,845	45,958	49,415	47,632
15-19	36,264	35,216	37,407	40,109	42,362	41,580	39,167	43,192	39,574	43,716	46,262	50,478	48,655	49,485
20-29	36,279	38,362	39,603	40,996	41,631	44,060	42,867	42,496	44,057	44,365	46,670	48,863	51,226	53,522
30-39	36,969	39,083	40,654	42,997	44,403	46,551	46,674	45,859	47,245	48,108	50,934	52,802	54,368	56,083
40-49	36,945	39,278	40,537	42,276	44,960	47,533	47,214	47,152	48,499	49,990	53,177	55,728	57,547	60,180
50-59	38,323	41,092	43,100	45,890	47,327	50,793	51,191	50,827	51,856	53,182	56,607	59,056	60,916	63,257
60-64	40,014	42,849	44,163	46,714	49,245	52,333	52,923	53,172	53,753	55,058	59,090	62,337	64,115	66,932
65-69	44,599	47,507	49,237	51,922	54,001	57,599	58,861	58,066	57,648	59,295	62,950	66,514	68,931	71,388
70-79	45,869	49,143	50,141	52,380	55,083	58,720	59,993	58,915	58,768	60,801	64,809	67,618	69,689	72,446
80+	46,345	48,773	51,255	53,055	55,640	59,161	60,979	59,618	58,947	60,655	64,764	67,826	70,330	72,019
0-19	37,502	37,807	39,330	41,544	43,775	43,545	42,199	44,458	40,743	44,241	46,864	50,146	50,034	51,618
20-44	36,735	38,811	40,268	42,228	44,070	46,318	45,978	45,541	46,865	47,764	50,743	53,006	54,728	56,849
45-64	38,683	41,433	43,021	45,495	47,416	50,620	50,949	50,825	51,824	53,222	56,724	59,405	61,276	63,832
65-74	45,062	48,145	49,593	52,097	54,411	57,964	59,293	58,336	58,065	60,046	63,898	66,939	69,226	71,657
75+	46,281	49,221	50,735	52,746	55,521	59,210	60,621	59,449	59,049	60,750	64,776	67,867	70,096	72,514
Male	39,723	42,494	43,899	46,168	48,053	51,205	51,871	51,574	52,075	53,580	56,979	59,793	61,967	64,340
Female	42,770	45,635	47,343	49,849	52,500	55,872	56,672	56,035	56,437	58,096	62,118	65,083	67,006	69,511
White	41,891	44,760	46,252	48,533	50,959	54,159	55,204	54,767	54,818	56,416	60,009	62,824	65,099	67,318
Black	40,552	43,476	45,032	47,700	49,700	53,036	53,401	52,874	53,831	55,335	59,393	62,300	64,359	67,218
Native American	37,785	38,743	42,083	43,145	46,020	49,592	48,941	48,108	49,788	50,070	52,293	56,606	56,815	58,872
Asian	35,860	37,547	40,578	42,324	44,136	47,543	48,471	48,352	49,617	51,518	53,715	56,675	56,864	58,175
Other/unknown	52,289	36,090	38,448	54,119	60,564	57,880	54,129	55,043	54,470	58,247	59,519	61,315	60,387	62,106
†Hispanic						53,064	53,559	53,371	53,413	54,866	57,925	61,274	63,119	65,035
†Non-Hispanic						53,597	54,199	53,671	54,098	55,749	59,626	62,458	64,583	66,969
Diabetes	46,340	49,115	51,202	53,758	56,154	60,237	60,746	59,798	59,443	61,074	65,076	67,645	69,433	72,202
Hypertension	41,021	43,874	45,236	47,182	48,755	51,402	52,210	51,599	52,321	53,543	57,210	60,076	62,119	64,072
Glomerulonephritis	36,389	38,479	39,709	41,540	43,505	45,646	45,462	45,464	46,312	47,356	49,966	52,609	54,239	56,251
Other cause	37,984	40,694	41,606	44,214	47,119	50,015	51,122	50,662	51,766	53,731	57,261	60,285	63,065	64,694
Unknown cause	41,112	43,716	43,898	46,912	48,600	51,389	51,438	51,549	51,633	53,462	55,649	59,442	60,621	65,663
All	41,222	44,036	45,590	47,975	50,230	53,482	54,203	53,733	54,183	55,747	59,433	62,296	64,342	66,758

Model 1: As-treated actuarial model, the standard USRDS as-treated economic model in which all costs are attributed to the patient's modality at the time the costs are incurred. In the case of a modality change, the costs incurred after the change are attributed to the new modality. See Appendix A (Volume I) for further details.

Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

Table K.6

Per person per year costs: hemodialysis patients, with unknowns dropped (Model 1)*period prevalent ESRD patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis*

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	47,911	77,052	52,276	63,260	74,303	60,896	64,202	52,238	83,958	81,594	101,539	77,106	62,608	89,562
5-9	42,255	38,813	48,491	46,624	48,564	54,592	59,312	56,998	57,383	51,909	62,284	62,489	61,674	65,341
10-14	40,479	39,691	42,600	44,693	45,594	47,052	45,375	51,249	44,330	44,876	52,070	54,441	55,727	51,174
15-19	36,842	36,597	38,270	40,540	44,508	43,537	40,862	45,652	40,450	45,842	48,534	53,408	50,989	52,910
20-29	37,020	39,085	41,049	42,158	42,737	45,561	44,525	43,565	45,285	45,423	48,293	50,567	53,134	55,461
30-39	37,783	39,915	41,983	44,316	45,805	48,013	47,875	46,768	48,509	49,234	52,370	54,305	56,053	57,914
40-49	37,420	39,849	41,374	43,297	46,025	48,706	48,263	48,199	49,559	50,998	54,275	56,798	58,722	61,565
50-59	38,688	41,844	43,859	46,768	48,081	51,602	52,129	51,373	52,622	53,867	57,463	59,940	62,005	64,387
60-64	40,596	43,465	45,051	47,570	49,986	53,083	53,597	53,624	54,291	55,487	59,682	63,013	65,006	67,939
65-69	44,810	47,908	49,753	52,530	54,570	58,558	59,498	58,497	58,157	59,901	63,236	66,999	69,597	72,119
70-79	45,746	49,191	50,451	52,463	55,415	59,146	60,231	58,983	58,888	60,956	64,853	67,849	69,984	72,908
80+	45,913	48,243	50,935	52,705	55,453	59,211	60,772	59,214	58,532	60,281	64,298	67,256	69,845	71,511
0-19	38,229	38,640	40,219	42,595	46,264	45,350	43,437	47,463	43,217	46,934	51,171	54,779	52,601	54,096
20-44	37,413	39,544	41,434	43,444	45,342	47,763	47,245	46,544	48,087	48,882	52,112	54,462	56,341	58,611
45-64	39,161	42,113	43,869	46,401	48,245	51,480	51,848	51,476	52,595	53,902	57,578	60,278	62,329	64,977
65-74	45,143	48,406	50,081	52,537	54,942	58,772	59,780	58,640	58,463	60,499	64,147	67,405	69,768	72,370
75+	45,993	48,985	50,665	52,504	55,503	59,294	60,595	59,228	58,813	60,572	64,484	67,586	69,939	72,352
Male	40,005	42,895	44,589	46,795	48,711	51,996	52,531	51,986	52,552	54,039	57,462	60,334	62,670	65,076
Female	43,343	46,410	48,304	50,844	53,589	57,141	57,816	56,899	57,352	58,976	63,034	66,092	68,104	70,781
White	42,568	45,601	47,376	49,579	52,125	55,552	56,356	55,604	55,650	57,220	60,826	63,708	66,183	68,417
Black	40,731	43,804	45,547	48,247	50,240	53,594	53,983	53,249	54,309	55,772	59,848	62,823	64,939	67,982
Native American	37,976	39,148	42,770	43,701	46,190	50,274	49,534	48,484	50,193	50,423	52,728	57,225	57,199	59,536
Asian	36,333	38,305	41,302	43,256	45,324	48,885	49,803	49,263	50,546	52,606	54,807	57,825	58,135	59,457
Other/unknown	46,798	36,390	39,033	55,960	62,100	60,359	56,289	56,751	55,966	59,499	60,901	62,841	61,285	63,371
†Hispanic						54,148	54,576	54,337	54,299	55,793	58,783	62,254	64,123	66,026
†Non-Hispanic						54,742	55,147	54,275	54,744	56,365	60,264	63,174	65,444	67,959
Diabetes	46,759	49,619	51,833	54,341	56,768	61,024	61,343	60,190	59,867	61,454	65,433	68,080	69,991	72,833
Hypertension	41,135	44,159	45,804	47,711	49,342	52,146	52,691	51,945	52,716	53,981	57,584	60,591	62,683	64,791
Glomerulonephritis	37,063	39,445	40,981	42,814	44,948	47,130	46,889	46,543	47,459	48,587	51,303	53,968	55,676	58,063
Other cause	38,578	41,384	42,570	45,188	48,128	51,118	52,415	51,452	52,839	54,513	58,339	61,424	64,489	66,078
Unknown cause	41,452	44,324	44,604	47,533	49,542	52,610	52,383	52,052	51,941	54,118	56,085	59,848	61,596	66,077
All	41,654	44,630	46,420	48,787	51,102	54,507	55,095	54,358	54,864	56,398	60,111	63,048	65,220	67,733

Model 1: As-treated actuarial model, the standard USRDS as-treated economic model in which all costs are attributed to the patient's modality at the time the costs are incurred. In the case of a modality change, the costs incurred after the change are attributed to the new modality. See Appendix A (Volume I) for further details.

Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

K Medicare costs for esrd

Table K.7

Per person per year costs: CAPD/CCPD patients, with unknowns dropped (Model 1)

period prevalent ESRD patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	36,312	55,669	49,818	42,853	52,202	51,917	48,466	53,019	43,892	38,146	46,389	54,222	65,373	70,060
5-9	41,056	35,445	34,170	42,163	36,737	43,096	49,173	46,203	33,931	47,183	41,440	41,661	39,635	44,372
10-14	34,630	35,379	36,226	39,425	41,333	39,758	40,876	37,470	33,889	33,909	33,591	36,473	41,687	43,758
15-19	34,023	33,193	34,911	38,837	37,721	37,905	36,186	37,890	37,862	37,694	40,581	42,191	41,443	39,032
20-29	32,651	34,875	34,174	36,238	37,713	38,571	36,100	37,336	38,048	38,535	38,531	39,747	40,855	43,082
30-39	33,102	35,292	35,428	37,436	38,689	40,480	41,064	40,707	39,690	41,083	41,481	42,746	42,589	42,589
40-49	33,710	35,763	36,036	37,161	40,161	41,798	41,212	40,468	40,619	41,970	43,571	45,767	46,370	46,485
50-59	34,636	35,874	37,547	39,663	42,538	45,335	44,576	45,623	44,169	45,406	46,435	48,349	47,729	49,182
60-64	33,627	36,713	36,818	39,561	42,869	45,687	45,841	46,804	45,146	47,790	48,547	49,887	49,055	50,108
65-69	36,069	38,087	39,657	41,407	45,351	46,272	48,766	48,211	46,572	46,985	51,639	51,911	52,568	53,545
70-79	36,608	38,469	39,045	41,046	43,461	47,222	48,676	48,225	47,284	49,008	51,070	49,880	50,714	51,673
80+	36,215	36,622	39,221	40,262	43,308	44,673	45,395	44,456	45,059	45,593	47,072	49,969	51,731	51,873
0-19	35,507	36,536	37,087	39,945	40,562	41,278	40,754	40,513	37,145	37,931	39,733	42,346	45,380	46,442
20-44	33,113	35,165	35,330	36,972	38,927	40,312	39,965	39,976	39,590	40,485	41,485	42,839	43,021	44,019
45-64	34,160	36,236	36,981	39,140	42,054	44,705	44,149	44,604	43,549	45,379	46,255	48,192	47,947	48,763
65-74	36,228	38,466	39,412	41,351	44,647	46,462	48,953	48,319	46,944	48,080	51,448	50,798	52,000	52,396
75+	36,662	37,302	39,034	40,489	43,015	46,882	46,980	46,642	46,408	47,449	49,403	50,228	50,587	52,214
Male	34,171	36,056	36,557	38,430	40,946	43,060	43,387	43,468	42,787	43,766	45,393	46,818	47,023	48,410
Female	35,046	37,121	38,070	40,042	42,922	45,195	45,390	45,332	44,156	45,784	47,368	48,275	48,833	49,193
White	34,418	36,425	37,213	39,179	41,871	43,830	44,740	44,437	43,573	44,586	46,195	47,338	47,567	49,233
Black	35,440	37,697	37,917	39,886	42,741	45,658	44,564	45,180	43,968	45,856	47,797	49,175	49,912	49,432
Native American	34,426	34,105	35,878	37,339	43,303	43,120	41,652	41,948	42,870	42,218	45,157	46,674	48,934	47,354
Asian	29,503	29,084	33,488	34,318	35,199	38,452	38,441	39,837	39,734	41,433	41,879	42,139	41,406	41,139
Other/unknown	74,055	28,739	31,977	42,423	37,170	39,407	38,692	40,821	38,911	45,619	41,790	43,775	45,451	42,150
†Hispanic						41,889	42,955	42,389	42,342	41,634	44,193	45,279	45,772	48,285
†Non-Hispanic						42,171	43,023	43,687	43,129	44,791	46,645	47,806	48,259	48,918
Diabetes	39,008	41,708	43,619	45,638	48,510	51,693	51,978	51,584	50,039	51,825	53,543	54,597	54,512	56,298
Hypertension	33,760	35,320	35,744	37,305	40,090	41,503	42,912	42,045	41,633	42,447	44,725	44,826	45,863	45,937
Glomerulonephritis	31,744	32,718	32,826	34,735	36,554	38,317	38,043	38,700	38,478	38,782	39,923	41,548	42,531	42,378
Other cause	32,461	34,702	34,707	36,677	39,578	41,695	40,721	41,695	40,057	42,567	43,726	45,383	45,396	46,663
Unknown cause	34,833	35,900	34,272	38,120	39,159	39,057	38,990	39,951	41,358	40,743	41,525	43,429	41,607	43,681
All	34,593	36,568	37,289	39,213	41,908	44,102	44,371	44,390	43,474	44,778	46,381	47,541	47,918	48,796

Model 1: As-treated actuarial model, the standard USRDS as-treated economic model in which all costs are attributed to the patient's modality at the time the costs are incurred. In the case of a modality change, the costs incurred after the change are attributed to the new modality. See Appendix A (Volume I) for further details.

Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

Table K.8

Per person per year costs: transplant patients, with unknowns dropped (Model 1)*period prevalent ESRD patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis*

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	27,415	23,339	29,084	24,522	23,365	32,449	30,296	30,688	31,116	27,563	27,102	35,462	35,814	37,695
5-9	17,651	13,488	14,757	19,215	16,724	18,279	17,053	17,720	14,704	14,195	16,587	17,036	21,945	20,820
10-14	14,293	16,960	14,823	16,581	16,130	15,292	16,656	15,511	13,482	13,382	14,564	18,038	22,095	27,126
15-19	15,899	16,122	17,613	18,213	19,004	16,932	16,047	16,485	16,586	16,230	19,831	20,468	24,820	27,955
20-29	16,712	15,705	16,692	16,920	18,472	17,860	18,112	17,876	17,613	17,221	19,664	20,625	21,107	23,396
30-39	15,505	16,307	16,282	17,383	17,816	17,635	17,411	16,769	16,592	17,450	19,144	20,274	20,613	22,647
40-49	16,528	16,426	16,860	17,767	18,156	19,016	19,044	17,456	16,856	17,585	19,573	20,643	20,573	22,619
50-59	16,419	16,626	17,216	18,523	19,840	20,402	20,740	19,481	17,869	19,781	20,915	22,038	22,081	23,685
60-64	16,614	16,139	16,880	17,972	19,411	20,298	20,692	19,813	18,924	20,539	21,479	21,998	24,585	24,365
65-69	17,402	18,062	17,353	17,786	19,721	19,701	20,374	20,823	19,838	21,086	22,550	24,548	24,719	26,012
70-79	14,721	16,061	17,865	18,065	18,367	17,943	19,152	19,750	19,466	21,047	24,165	23,861	24,754	25,308
80+	17,532	17,009	25,654	13,776	17,574	14,166	17,070	14,368	11,465	18,527	19,840	18,893	19,799	23,324
0-19	16,657	16,434	17,265	18,422	18,236	17,801	17,486	17,443	16,224	15,766	18,209	20,316	24,500	27,601
20-44	16,048	16,219	16,382	17,222	18,017	17,972	18,034	17,117	16,805	17,230	19,242	20,407	20,686	22,583
45-64	16,533	16,425	17,233	18,374	19,297	20,083	20,233	19,059	17,885	19,541	20,796	21,709	22,273	23,700
65-74	17,032	17,362	17,443	17,965	19,426	19,224	20,103	20,488	19,629	21,292	22,936	24,078	24,682	25,666
75+	11,841	19,532	19,745	15,627	16,948	17,084	17,858	19,083	19,144	18,766	24,828	24,656	24,158	25,460
Male	15,967	16,033	16,581	17,637	18,483	18,560	18,737	18,076	17,373	18,412	20,439	21,152	22,031	23,607
Female	16,827	16,955	17,255	18,016	18,974	19,583	19,837	18,855	18,043	19,318	20,698	22,395	22,591	24,183
White	15,492	15,509	16,093	16,796	17,711	18,054	18,122	17,370	16,569	17,615	19,232	20,395	20,994	22,640
Black	19,816	19,948	20,120	21,791	22,781	22,813	23,297	22,287	21,589	23,279	25,395	26,421	27,119	27,917
Native American	15,462	15,342	16,966	21,340	18,284	18,462	19,351	16,957	18,453	17,874	19,838	20,529	21,551	24,183
Asian	14,300	16,152	14,577	14,900	14,860	15,466	16,371	16,087	15,321	15,235	18,016	18,572	18,093	20,658
Other/unknown	10,644	9,306	4,327	8,604	15,598	10,748	18,115	15,806	13,590	22,933	13,177	21,268	36,282	49,115
†Hispanic						19,489	20,005	19,117	18,332	18,899	20,591	21,423	22,049	23,822
†Non-Hispanic						20,359	20,265	19,290	18,411	19,653	21,396	22,533	23,022	24,300
Diabetes	21,879	22,164	23,524	24,875	25,739	26,147	26,315	24,701	23,220	25,395	27,463	29,435	29,774	31,325
Hypertension	17,647	17,930	18,197	19,034	19,377	19,151	19,456	18,521	18,112	19,098	22,005	22,615	23,095	24,200
Glomerulonephritis	13,829	13,696	13,256	14,512	15,414	15,568	16,077	15,275	14,863	15,514	16,677	17,456	18,083	19,678
Other cause	14,649	14,498	14,917	14,924	16,009	16,508	16,018	16,025	15,202	16,011	17,286	18,224	19,274	20,543
Unknown cause	12,091	12,214	13,276	13,761	13,831	13,898	15,120	14,777	14,774	15,323	16,487	17,097	16,384	19,836
All	16,302	16,394	16,847	17,787	18,675	18,963	19,174	18,387	17,642	18,777	20,543	21,656	22,259	23,840

Model 1: As-treated actuarial model, the standard USRDS as-treated economic model in which all costs are attributed to the patient's modality at the time the costs are incurred. In the case of a modality change, the costs incurred after the change are attributed to the new modality. See Appendix A (Volume I) for further details.

Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

K Medicare costs for esrd

Table K.9

Per person per year costs: dialysis patients (Model 2)

period prevalent ESRD patients, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	38,951	54,206	44,351	43,173	51,962	54,032	47,615	42,463	45,190	35,315	47,317	54,649	51,673	79,932
5-9	37,829	32,455	38,411	40,863	33,261	43,030	49,758	44,471	37,547	48,065	45,400	49,037	42,520	53,102
10-14	35,525	34,098	37,671	39,587	39,394	36,362	37,634	37,489	37,084	37,502	36,382	43,287	46,097	45,050
15-19	34,781	33,855	35,448	37,384	39,986	38,807	38,161	41,191	36,713	41,341	43,813	46,756	46,476	47,636
20-29	34,941	37,105	38,443	39,948	40,291	42,729	41,883	41,270	42,564	43,210	45,276	47,561	49,830	52,718
30-39	35,735	37,529	39,191	41,833	43,452	44,925	45,988	44,888	46,009	46,776	49,827	51,888	52,982	55,371
40-49	35,962	37,911	39,214	41,277	43,826	46,432	46,596	46,089	47,107	48,531	52,057	55,049	56,346	59,624
50-59	37,361	39,931	41,813	45,143	46,536	49,678	50,737	49,992	50,671	51,895	55,682	58,482	60,038	62,689
60-64	39,003	41,508	42,959	45,972	48,672	51,202	52,284	52,555	52,728	54,103	58,491	62,293	63,551	67,172
65-69	42,132	44,636	46,018	49,766	52,040	55,183	56,584	56,123	55,919	57,143	61,418	65,792	67,526	71,096
70-79	43,527	46,149	46,661	50,270	53,241	56,372	57,513	56,894	56,951	58,648	63,429	66,964	68,140	72,066
80+	44,208	45,913	47,815	51,039	53,765	56,915	58,642	57,920	57,504	58,520	63,411	67,143	68,262	71,728
0-19	35,589	35,232	36,931	38,713	40,419	40,032	39,779	40,781	37,432	40,689	42,673	46,804	46,415	50,026
20-44	35,448	37,290	38,876	41,175	42,971	44,969	45,350	44,538	45,608	46,474	49,598	52,177	53,455	56,299
45-64	37,773	40,231	41,787	44,699	46,652	49,504	50,390	50,011	50,623	51,990	55,875	58,957	60,425	63,474
65-74	42,659	45,217	46,198	49,867	52,438	55,563	56,932	56,377	56,308	57,880	62,431	66,247	67,803	71,320
75+	44,011	46,286	47,368	50,843	53,783	56,939	58,181	57,537	57,381	58,627	63,427	67,206	68,233	72,181
Male	38,118	40,559	41,792	44,758	46,741	49,680	50,715	50,358	50,708	51,987	55,854	59,196	60,631	63,951
Female	41,579	44,004	45,447	48,810	51,566	54,431	55,556	54,950	55,322	56,790	61,387	64,945	66,315	69,722
White	40,639	43,014	44,319	47,442	49,933	52,800	54,063	53,675	53,718	55,106	59,313	62,701	64,142	67,442
Black	38,968	41,655	42,996	46,344	48,474	51,445	52,326	51,705	52,443	53,739	58,172	61,623	63,226	66,817
Native American	35,816	37,131	40,482	42,417	45,550	48,403	48,230	47,237	48,815	48,940	51,432	55,879	55,887	58,247
Asian	34,347	35,615	37,965	40,325	42,740	45,587	47,053	46,653	47,813	49,476	52,536	56,014	55,843	57,761
Other/unknown	30,113	21,123	22,220	39,178	55,367	54,749	51,574	53,157	52,685	56,012	57,138	59,695	58,486	62,146
†Hispanic						51,589	52,463	52,335	52,182	53,520	57,137	60,920	62,647	65,193
†Non-Hispanic						52,270	53,173	52,590	52,920	54,328	58,736	62,146	63,637	66,839
Diabetes	45,168	47,391	49,090	52,633	55,164	58,596	59,501	58,616	58,219	59,622	64,176	67,378	68,902	72,154
Hypertension	39,678	42,233	43,207	45,929	47,640	49,998	50,930	50,424	51,056	52,085	56,266	59,645	60,958	63,927
Glomerulonephritis	35,186	37,080	38,370	40,534	42,637	44,529	44,874	44,532	45,235	46,152	49,202	51,987	53,323	55,950
Other cause	36,643	38,978	39,876	43,026	45,979	48,590	50,120	49,568	50,449	52,196	56,247	60,032	61,531	64,495
Unknown cause	37,441	38,797	39,357	43,993	45,344	48,762	49,304	49,343	49,550	51,087	53,521	58,073	56,258	65,327
All	39,821	42,254	43,595	46,755	49,114	52,009	53,077	52,589	52,944	54,295	58,500	61,919	63,308	66,650

Model 2: Categorical calendar year model. Patients are classified into four mutually exclusive modality groups, based on calendar year. If a patient receives a transplant during a calendar year, he or she is placed into the transplant event modality & costs are aggregated for the entire time that the patient is alive, ESRD, & Medicare entitled during the calendar year. Other modalities (dialysis, functioning graft, graft failure) are defined in a similar fashion. See Appendix A (Volume I) for further details. Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

Table K.10

Per person per year costs: patients with a transplant event within the year (Model 2)*period prevalent ESRD patients, primary payor only, by age, gender, race, ethnicity, & primary diagnosis*

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	95,387	90,730	91,193	104,119	91,189	108,517	95,046	101,548	94,805	88,259	99,268	107,743	105,832	111,355
5-9	96,692	85,210	93,779	100,991	92,031	99,766	102,209	98,394	88,985	88,839	83,769	75,327	86,211	78,018
10-14	81,492	86,866	75,200	80,968	93,021	82,407	94,386	81,307	76,934	80,361	89,750	83,025	92,349	92,634
15-19	76,790	77,534	82,548	87,273	84,519	85,662	81,841	89,969	78,959	80,092	88,519	91,003	92,526	95,648
20-29	76,364	80,583	85,009	86,402	89,096	87,253	89,207	86,775	86,494	83,152	90,911	92,591	92,527	90,659
30-39	79,419	83,162	87,348	89,399	92,965	94,328	91,225	87,754	90,821	92,414	92,537	94,148	95,126	98,913
40-49	80,735	82,759	85,609	86,969	92,195	92,150	93,425	88,056	90,114	92,496	94,287	97,383	94,707	96,797
50-59	81,765	83,157	86,960	90,980	93,901	93,734	95,613	92,067	91,553	95,121	94,916	97,651	97,465	100,896
60-64	81,962	85,786	85,801	87,259	93,965	93,649	94,996	94,649	93,475	98,331	98,655	100,265	101,474	99,043
65-69	86,014	85,159	89,022	92,343	97,768	98,014	107,726	99,518	97,945	97,711	103,774	103,900	101,826	106,432
70-79	81,758	80,902	105,065	91,867	97,316	90,449	100,664	104,486	103,281	103,216	110,325	106,332	104,266	103,752
80+	91,065	93,110	147,155	75,313	104,276	71,019	88,063	77,466	71,440	102,359	118,903	88,371	90,710	109,830
0-19	82,915	82,608	84,017	88,956	88,011	89,885	90,140	90,157	81,302	82,047	89,269	88,749	93,447	95,028
20-44	78,831	82,280	85,780	87,916	91,900	91,782	91,110	87,178	89,308	89,423	92,958	94,390	94,416	95,940
45-64	81,429	83,554	86,920	89,184	93,078	93,251	94,979	91,856	91,699	95,552	95,136	98,325	97,583	99,749
65-74	85,466	84,410	91,528	91,862	97,344	96,529	105,365	100,584	99,518	99,205	105,268	103,599	102,600	105,224
75+	74,782	80,531	135,940	103,847	105,403	74,709	114,792	102,328	92,707	103,400	117,905	116,438	102,042	108,919
Male	80,125	81,598	85,928	88,565	92,116	91,033	93,356	90,155	90,388	92,091	95,525	96,582	96,277	97,810
Female	80,638	84,783	87,487	88,971	93,248	94,952	94,572	91,091	91,601	94,174	94,913	98,308	97,871	100,706
White	81,024	83,146	87,634	89,447	93,027	93,153	94,666	91,234	89,756	91,497	93,939	96,778	95,824	98,877
Black	79,289	83,077	84,756	88,076	92,863	91,510	93,236	90,048	94,398	97,243	99,298	99,521	100,420	100,849
Native American	71,767	75,684	75,032	90,473	89,133	90,132	90,820	79,957	84,972	84,229	82,845	88,537	92,611	87,441
Asian	77,082	78,781	83,935	80,968	82,504	92,481	86,184	86,504	86,251	86,345	89,208	91,628	88,782	91,854
Other/unknown	85,516		79,204	68,126	81,814	108,849	73,538	70,490	62,302	93,411	77,799	102,965	99,779	99,810
†Hispanic						90,096	93,349	87,161	88,285	86,966	90,012	90,560	91,962	94,542
†Non-Hispanic						92,855	93,739	90,825	91,254	93,831	96,150	98,472	97,855	99,332
Diabetes	85,250	91,217	94,902	95,500	100,689	99,342	101,225	96,875	95,622	101,985	103,099	106,453	106,790	107,065
Hypertension	79,789	79,621	84,106	85,700	90,149	88,823	92,417	87,870	90,832	91,796	95,376	96,320	94,763	95,786
Glomerulonephritis	77,082	78,864	81,206	85,485	87,817	88,114	89,332	86,508	87,102	87,011	89,103	91,374	90,630	93,669
Other cause	80,063	82,735	84,874	87,902	90,452	93,718	91,859	90,077	89,184	89,084	93,416	93,291	94,900	96,638
Unknown cause	81,082	84,736	93,493	91,526	103,583	94,816	97,498	93,204	94,765	97,662	91,388	97,134	88,356	101,456
All	80,334	82,868	86,557	88,725	92,553	92,623	93,846	90,538	90,878	92,941	95,275	97,283	96,918	98,968

Model 2: Categorical calendar year model. Patients are classified into four mutually exclusive modality groups, based on calendar year. If a patient receives a transplant during a calendar year, he or she is placed into the transplant event modality & costs are aggregated for the entire time that the patient is alive, ESRD, & Medicare entitled during the calendar year. Other modalities (dialysis, functioning graft, graft failure) are defined in a similar fashion. See Appendix A (Volume I) for further details. Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

K Medicare costs for esrd

Table K.11

Per person per year costs: patients with a functioning graft (Model 2)

period prevalent ESRD patients, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	11,747	12,914	12,911	12,072	13,525	14,843	16,702	14,235	10,411	18,248	13,311	15,596	17,005	20,051
5-9	8,446	7,473	6,350	10,564	8,703	8,026	7,778	10,126	9,197	8,704	9,057	11,697	13,639	13,878
10-14	7,063	7,906	7,803	7,036	5,953	7,466	8,614	7,945	6,996	7,701	8,074	9,880	11,914	14,215
15-19	7,134	7,324	7,042	6,731	8,804	7,970	7,525	7,234	7,693	8,803	10,501	9,780	14,256	15,936
20-29	7,261	6,860	6,822	7,422	7,999	8,035	8,622	8,677	8,837	8,357	10,134	10,838	11,795	12,787
30-39	8,024	8,545	8,475	9,275	9,351	9,964	10,068	9,709	9,629	10,039	11,381	12,235	12,667	13,325
40-49	8,752	9,201	9,340	10,348	10,334	11,239	11,337	10,883	10,360	11,078	12,389	13,403	13,988	14,877
50-59	8,867	9,747	10,059	11,140	12,209	12,735	13,265	12,543	11,702	13,151	14,120	14,903	15,746	16,006
60-64	9,967	9,764	10,719	11,913	12,339	13,102	14,400	13,896	13,444	14,687	15,687	16,048	18,317	17,932
65-69	10,507	11,360	11,546	12,227	13,854	13,997	14,093	14,353	14,487	15,297	16,771	18,199	18,659	20,045
70-79	10,805	11,043	12,268	13,541	13,646	13,879	14,691	15,688	16,042	16,594	19,147	19,341	20,322	21,153
80+	10,747	11,746	10,181	9,558	15,945	11,907	16,259	12,756	10,871	15,189	16,662	17,048	18,237	20,589
0-19	7,665	7,892	7,549	7,931	8,408	8,260	8,528	8,447	7,921	9,012	9,686	10,484	13,746	15,486
20-44	7,973	8,325	8,272	9,022	9,259	9,868	10,155	9,797	9,534	9,955	11,385	12,285	12,864	13,706
45-64	9,118	9,571	10,040	11,227	11,756	12,423	12,918	12,405	11,845	13,010	14,081	14,829	15,951	16,208
65-74	10,634	11,172	11,768	12,598	13,839	13,812	14,351	14,702	14,799	15,808	17,403	18,471	19,169	20,352
75+	9,857	12,995	11,411	12,567	13,310	15,617	13,972	16,063	17,212	15,838	20,306	19,938	20,619	21,711
Male	8,334	8,787	9,059	10,020	10,491	11,209	11,435	11,354	10,984	11,955	13,396	14,173	15,359	16,073
Female	8,889	9,329	9,475	10,530	11,103	11,522	12,313	11,826	11,738	12,536	13,981	15,182	16,056	16,828
White	8,457	8,837	9,113	10,195	10,573	11,184	11,491	11,243	11,082	11,944	13,315	14,162	15,362	16,175
Black	9,368	10,042	10,114	10,869	11,959	12,671	13,359	13,177	12,500	13,770	15,314	16,573	17,404	17,769
Native American	7,881	8,073	9,662	10,622	10,792	10,405	12,031	11,291	11,735	11,970	14,727	14,146	14,206	16,791
Asian	5,583	6,568	6,342	6,499	6,661	6,907	8,428	8,216	8,283	8,040	10,086	11,627	11,509	12,246
Other/unknown	8,245	8,972	3,291	8,958	9,507	4,007	12,203	4,343	4,321	10,801	8,350	13,907	11,483	16,193
†Hispanic						11,367	11,139	11,001	10,868	11,473	13,109	13,914	14,927	15,745
†Non-Hispanic						11,675	12,208	11,871	11,585	12,599	13,977	14,992	16,014	16,649
Diabetes	13,749	14,288	14,784	16,640	17,279	18,139	18,594	17,532	16,577	18,114	20,004	21,397	22,084	22,861
Hypertension	8,065	9,222	9,141	9,536	10,081	10,473	11,025	10,959	10,698	11,633	13,758	14,397	15,580	15,982
Glomerulonephritis	6,399	6,666	6,603	7,471	7,832	8,351	8,865	8,690	8,676	9,403	10,211	11,071	12,113	12,833
Other cause	7,429	7,431	7,769	8,199	8,759	9,165	9,283	9,597	9,587	10,149	11,225	12,058	13,378	14,130
Unknown cause	7,292	7,684	8,048	8,805	8,222	9,153	9,446	9,369	9,681	9,637	11,306	11,818	11,594	13,203
All	8,548	8,998	9,222	10,220	10,731	11,332	11,782	11,541	11,285	12,189	13,631	14,579	15,639	16,376

Model 2: Categorical calendar year model. Patients are classified into four mutually exclusive modality groups, based on calendar year. If a patient receives a transplant during a calendar year, he or she is placed into the transplant event modality & costs are aggregated for the entire time that the patient is alive, ESRD, & Medicare entitled during the calendar year. Other modalities (dialysis, functioning graft, graft failure) are defined in a similar fashion. See Appendix A (Volume I) for further details.

Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

Table K.12

Per person per year costs: patients with a graft failure within the year (Model 2)*period prevalent ESRD patients, primary payor only, by age, gender, race, ethnicity, & primary diagnosis*

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	67,902	58,071	82,853	65,344	.	59,837	.	146,176	82,778	.	80,221	71,423	38,588	141,034
5-9	48,684	38,173	35,947	52,188	66,306	129,842	97,796	69,343	86,674	80,976	.	51,408	30,568	27,314
10-14	43,091	59,264	50,839	52,349	48,457	45,235	64,234	48,846	46,415	40,351	56,986	52,778	64,215	48,070
15-19	40,307	41,704	39,505	51,486	48,252	52,861	57,165	45,104	52,299	59,973	51,931	64,214	60,843	70,238
20-29	47,322	43,074	47,226	48,087	45,312	57,369	48,974	51,732	52,322	54,429	53,795	62,454	58,870	62,465
30-39	45,902	52,343	47,359	51,261	52,708	52,700	56,593	54,704	56,996	54,464	57,962	66,686	66,079	70,692
40-49	47,164	51,176	50,905	51,372	54,552	56,513	60,002	58,619	59,441	59,264	65,872	65,868	67,288	72,318
50-59	50,311	50,392	50,546	60,536	55,088	64,281	63,915	64,421	66,245	67,321	70,605	76,437	69,636	78,460
60-64	52,584	52,411	56,231	59,252	61,688	70,229	73,227	72,614	71,070	72,045	77,816	74,347	90,101	88,501
65-69	51,564	63,909	51,633	60,161	69,285	70,094	69,031	79,957	72,537	59,425	80,064	86,946	98,784	89,910
70-79	67,330	50,087	57,865	69,651	62,351	98,748	81,253	56,423	62,655	66,574	93,659	84,508	87,289	95,511
80+	43,001	45,125	69,934	61,296	22,440	.	.	38,299	52,007	60,836	175,320	126,020	70,941	91,762
0-19	42,297	45,951	43,467	51,976	48,407	55,756	61,992	50,239	55,573	57,737	53,324	61,534	59,613	65,321
20-44	46,425	49,546	48,157	49,580	51,179	54,712	54,714	55,693	56,318	55,543	57,468	65,436	64,218	67,162
45-64	49,891	50,631	51,542	58,387	56,147	62,817	65,865	62,615	64,939	66,152	72,096	73,201	73,459	80,157
65-74	56,366	58,856	53,002	63,588	66,936	77,828	74,239	73,740	68,595	61,560	85,838	86,921	95,251	90,430
75+	36,792	56,792	68,856	56,694	52,035	84,110	69,396	55,976	71,009	67,503	94,109	84,793	86,692	103,666
Male	45,541	49,192	48,098	51,745	51,754	55,826	56,167	57,477	60,508	58,799	66,119	66,931	69,145	73,542
Female	50,324	51,474	51,282	55,626	56,399	63,784	66,104	62,079	60,715	63,499	66,552	75,584	76,109	81,204
White	48,399	52,319	49,647	55,637	55,256	59,625	59,393	59,814	61,112	59,491	65,953	71,092	71,679	75,987
Black	45,552	46,536	49,439	49,903	51,467	59,020	62,130	57,807	60,031	63,202	66,980	71,354	73,003	78,839
Native American	52,265	47,176	39,262	52,045	54,182	48,817	64,061	50,267	44,132	57,048	56,555	76,780	83,351	71,367
Asian	44,450	43,268	45,825	46,581	36,433	51,692	53,883	69,734	64,795	58,580	69,214	53,652	59,961	62,176
Other/unknown	.	.	.	.	113,333	.	24,838	187,862	12,635	73,576	.	77,384	.	28,882
†Hispanic	.	.	.	.	.	55,808	56,519	56,380	59,768	57,273	62,690	67,737	74,990	71,113
†Non-Hispanic	.	.	.	.	.	59,114	60,332	59,346	60,358	60,858	66,669	70,742	71,391	77,265
Diabetes	62,162	64,477	63,644	65,605	68,162	70,316	75,711	71,873	76,792	74,869	80,771	87,492	88,556	94,641
Hypertension	43,197	45,416	48,907	53,341	47,915	55,447	60,183	58,034	59,100	57,757	62,383	69,149	72,400	73,361
Glomerulonephritis	43,465	45,507	45,321	46,874	50,503	53,153	52,503	52,475	52,718	53,334	59,314	61,339	61,526	69,107
Other cause	45,786	49,854	45,449	52,127	51,514	61,089	58,615	56,186	57,925	61,162	65,838	67,115	67,938	70,264
Unknown cause	49,377	49,793	49,385	53,241	52,620	55,182	53,370	79,521	58,620	53,370	68,285	69,738	70,735	69,738
All	47,421	50,127	49,363	53,301	53,569	59,059	60,219	59,341	60,592	60,745	66,296	70,709	71,922	76,500

Model 2: Categorical calendar year model. Patients are classified into four mutually exclusive modality groups, based on calendar year. If a patient receives a transplant during a calendar year, he or she is placed into the transplant event modality & costs are aggregated for the entire time that the patient is alive, ESRD, & Medicare entitled during the calendar year. Other modalities (dialysis, functioning graft, graft failure) are defined in a similar fashion. See Appendix A (Volume I) for further details.

Age is calculated as of January 1 of each calendar year.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

“.” Zero values in this cell.

K medicare costs for esrd

Table K.13

Part B Medicare costs per person per year: by physician/supplier specialty

period prevalent patients, as-treated model; Medicare primary payor only

	2000	2001	2002	2003	2004
All	8,871	9,576	10,121	10,810	11,621
Nephrology	1,986	2,056	2,181	2,275	2,468
Pediatric medicine	801	830	932	1,176	1,352
Medical supply company	775	823	835	716	707
Laboratory	619	611	798	886	918
Ambulance service supplier	797	931	1,112	1,315	1,539
Internal medicine	697	752	804	851	946
General surgery	455	451	437	446	438
Radiology (diagnostic and therapeutic)	471	501	535	606	629
Cardiology	328	352	372	421	455
Anesthesiology	251	248	234	240	248
Multispecialty clinic/group practice	268	379	134	6	9
Pharmacy	540	669	734	863	890
Ophthalmology	135	143	146	156	165
Vascular surgery	149	153	167	185	195
Thoracic surgery	81	81	74	72	71
General and family practice	136	150	175	217	253
Emergency medicine	140	158	179	209	235
Gastroenterology	97	99	98	103	109
Urology	72	76	77	80	78
Pulmonary disease	100	107	121	137	152
Orthopedic surgery	76	82	85	90	94
Neurology	70	78	81	89	98
Hematology/oncology	77	85	107	130	155
Infectious disease	72	79	87	99	113
Pathology	48	50	52	56	60
Therapeutic services	66	70	72	81	93
Podiatry	54	63	68	77	84
Cardiac surgery	30	30	32	36	41
Dermatology	38	41	46	50	52
Ambulatory surgery center	35	38	45	52	56
Psychiatry (includes neuropsychiatry)	24	24	24	25	25
Obstetrics/gynecology	23	24	26	30	35
Endocrinology	26	29	31	34	38
Plastic and reconstructive surgery	19	21	20	20	19
Otolaryngology	18	20	21	23	24
Geriatric medicine	15	17	19	23	23
Neurosurgery	14	15	15	16	17
Peripheral vascular disease	7	9	9	8	9
Rheumatology	8	9	9	10	11
Optometry	13	10	11	12	13
Home health agency	3	1	3	2	1
Hospital	2	2	1	4	2
Nuclear medicine	5	5	6	6	7
Chiropractic	4	5	5	6	6
Colorectal surgery	3	3	3	3	3
Allergy/immunology	1	2	2	2	2
Other nursing facility	1	1	1	1	1
Maxillofacial and oral surgery	1	1	1	1	1
Skilled nursing facility	0	1	1	1	1
Intermediate care nursing facility	0	0	0	0	0
Other medical care/supplies	17	26	26	33	38
Unknown	12	8	12	18	9
Patients	314,888	331,765	350,735	366,019	372,980
Total years at risk	251,956	265,248	280,255	293,096	302,009
Fertile female patients (age >13)	145,880	152,837	160,728	166,821	168,862
Fertile female years at risk	115,952	121,604	127,671	132,926	136,376
Pediatric patients (age <20)	4,814	4,907	5,008	5,004	4,606
Pediatric years at risk	4,223	4,259	4,329	4,320	4,011
Geriatric patients (age >64)	124,691	132,326	141,323	147,306	150,711
Geriatric years at risk	90,229	95,655	102,098	107,054	110,405

Patients of unknown age are excluded.

The pediatric medicine rate uses pediatric (age <20) years at risk, the geriatric medicine rate uses geriatric (age >64) years at risk, & the obstetrics/gynecology rate uses fertile female (age >13) years at risk. All other rates are calculated using total years at risk.

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Medicare payments (\$) per person per year: 2000-2004, by claim type: Model 1 (K.a-e).