

IV
K

Economic costs of ESRD

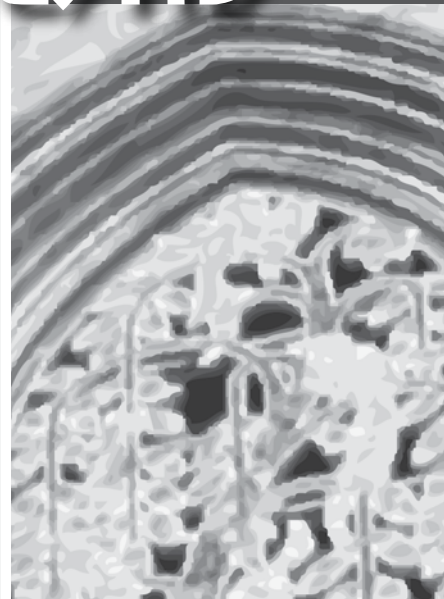


Table K.1 . 311

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

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

The following symbols are used throughout this reference section

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

* Values for cells with ten or fewer patients are suppressed. " " Zero values in this cell.

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	1998
0-4	7,910,228	9,433,257	9,690,436	9,989,950	10,736,181	10,938,245	10,767,626	8,729,567
5-9	10,393,570	8,123,765	9,100,457	11,165,354	9,350,824	10,692,904	10,955,832	11,280,719
10-14	17,076,916	17,443,994	17,637,237	19,235,350	19,700,959	19,196,305	20,291,694	18,781,796
15-19	41,165,570	40,634,256	41,531,809	46,472,795	47,149,534	48,252,554	46,771,470	47,418,763
20-29	268,574,453	282,386,333	305,117,871	324,146,377	335,189,358	352,540,844	353,000,935	345,064,206
30-39	554,041,265	619,573,826	680,160,436	758,467,075	811,633,737	860,282,504	882,305,041	848,582,535
40-49	708,736,529	816,403,747	912,937,321	1,039,259,027	1,175,131,336	1,337,092,257	1,423,373,137	1,416,722,690
50-59	876,638,720	1,004,794,708	1,145,734,885	1,319,214,154	1,464,716,518	1,667,985,820	1,809,452,740	1,844,276,389
60-64	615,381,472	691,399,647	756,157,086	843,241,920	924,444,340	1,041,821,855	1,111,806,027	1,124,839,893
65-69	831,987,224	959,926,492	1,072,070,839	1,227,920,704	1,321,824,308	1,464,205,487	1,544,165,589	1,555,693,096
70-79	1,192,334,136	1,439,455,002	1,619,538,346	1,910,620,214	2,134,801,426	2,444,586,481	2,663,532,686	2,782,320,360
80+	331,196,790	399,485,881	482,593,635	588,206,752	670,529,566	797,106,456	897,651,982	963,478,952
Unknown	678,528	850,872	211,716	455,184	633,270	309,552	241,167	232,108
0-19	76,546,284	75,635,271	77,959,940	86,863,448	86,937,496	89,080,008	88,786,623	86,210,846
20-44	1,173,230,298	1,301,016,222	1,426,120,760	1,575,338,398	1,694,718,403	1,825,129,945	1,880,237,798	1,840,256,781
45-64	1,850,142,140	2,113,542,041	2,373,986,838	2,708,990,154	3,016,396,888	3,434,593,336	3,699,700,082	3,739,228,931
65-74	1,534,005,777	1,806,005,143	2,031,279,663	2,358,292,933	2,577,043,653	2,878,965,236	3,059,613,957	3,114,289,635
75+	821,512,373	992,862,232	1,142,923,157	1,368,454,736	1,550,111,647	1,826,933,188	2,045,736,301	2,187,202,773
Unknown	678,528	850,872	211,716	455,184	633,270	309,552	241,167	232,108
Male	2,754,958,499	3,181,785,395	3,563,163,561	4,096,496,498	4,487,609,748	5,053,932,237	5,431,248,076	5,556,214,488
Female	2,701,150,314	3,108,102,678	3,489,271,619	4,001,888,961	4,438,231,609	5,001,079,028	5,343,067,851	5,411,206,586
Unknown	6,587	23,709	46,894	9,395	.	.	.	.
White	3,393,811,577	3,868,833,375	4,281,914,763	4,849,044,206	5,287,860,923	5,891,870,075	6,285,384,208	6,342,387,431
African American	1,895,650,212	2,222,731,694	2,525,654,267	2,953,348,234	3,287,919,255	3,727,103,334	3,996,947,287	4,098,812,616
Native American	58,263,615	68,677,097	84,260,558	99,720,262	111,596,133	129,879,419	139,020,927	144,414,964
Asian	105,493,927	127,778,678	158,715,303	191,548,398	221,123,901	263,645,439	290,661,106	306,840,286
Other/unknown	2,896,070	1,890,937	1,937,182	4,733,754	17,341,145	42,512,999	62,302,399	74,965,776
†Hispanic						946,284,606	1,085,545,362	1,156,282,795
†Non-Hispanic						6,391,234,897	7,644,410,157	8,357,793,100
Unknown						2,717,491,761	2,044,360,408	1,453,345,178
Diabetes	1,749,469,140	2,113,340,017	2,477,994,253	2,930,067,649	3,356,732,462	3,958,665,949	4,383,166,739	4,558,480,857
Hypertension	1,620,985,597	1,904,130,274	2,152,543,782	2,471,109,682	2,658,742,367	2,884,741,335	3,023,892,352	3,039,979,965
Glomerulonephritis	885,536,047	967,906,459	1,044,941,524	1,169,528,894	1,271,736,901	1,380,471,537	1,441,418,363	1,430,295,314
Other cause	929,306,791	1,033,902,688	1,102,829,130	1,226,088,386	1,333,699,467	1,491,578,867	1,568,087,014	1,571,316,243
Unknown	270,817,826	270,632,343	274,173,385	301,600,244	304,930,159	339,553,577	357,751,459	367,348,695
All	5,456,115,401	6,289,911,782	7,052,482,073	8,098,394,854	8,925,841,357	10,055,011,265	10,774,315,927	10,967,421,074

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.

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

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

	1999	2000	2001	2002	2003	2004	2005
0-4	7,762,962	7,637,757	7,886,768	9,960,646	11,283,897	13,020,901	15,954,801
5-9	9,363,752	9,495,981	9,805,874	10,231,316	10,435,002	10,102,737	11,245,252
10-14	16,967,577	16,635,920	18,290,192	21,056,853	24,458,725	23,697,512	27,244,377
15-19	45,168,151	46,964,459	49,445,236	53,134,891	54,183,544	57,605,380	62,692,419
20-29	350,414,339	353,903,234	376,140,087	392,840,854	402,261,050	421,396,479	441,555,383
30-39	860,971,710	894,230,468	970,178,987	1,037,290,330	1,062,083,749	1,140,263,901	1,193,387,597
40-49	1,475,644,777	1,593,449,847	1,772,321,399	1,930,646,401	2,041,514,060	2,256,924,451	2,392,392,651
50-59	1,963,222,728	2,177,699,734	2,482,746,761	2,800,912,351	3,032,080,450	3,388,283,613	3,655,654,380
60-64	1,170,921,276	1,270,979,519	1,436,508,988	1,604,116,909	1,760,721,100	1,958,782,402	2,083,647,314
65-69	1,568,509,105	1,668,617,363	1,872,425,596	2,107,657,276	2,249,207,257	2,454,608,488	2,592,636,509
70-79	2,901,815,640	3,126,809,908	3,527,014,059	3,860,111,530	4,057,614,870	4,385,796,543	4,585,774,955
80+	1,046,040,681	1,165,721,513	1,391,387,535	1,626,637,624	1,797,903,193	2,032,567,308	2,241,499,363
Unknown	358,429	609,103	224,591	716,204	682,884	1,031,996	132,315
0-19	79,262,442	80,734,116	85,428,071	94,383,705	100,361,168	104,426,529	117,136,848
20-44	1,876,460,083	1,956,281,078	2,128,734,071	2,282,288,741	2,343,100,200	2,520,808,148	2,672,326,457
45-64	3,944,714,747	4,333,981,725	4,909,162,150	5,483,518,103	5,955,560,209	6,644,842,698	7,094,310,868
65-74	3,165,900,040	3,371,847,025	3,780,529,485	4,177,406,991	4,415,425,998	4,780,128,768	5,026,453,773
75+	2,350,465,386	2,589,301,759	3,010,297,705	3,416,999,439	3,689,299,322	4,092,843,571	4,393,457,054
Unknown	358,429	609,103	224,591	716,204	682,884	1,031,996	132,315
Male	5,796,095,293	6,284,743,787	7,118,950,462	7,957,633,087	8,556,532,455	9,463,007,134	10,193,969,949
Female	5,621,065,834	6,047,997,357	6,795,423,596	7,497,679,856	7,947,897,009	8,681,028,778	9,109,502,216
Unknown	.	13,663	2,015	241	319	45,798	345,150
White	6,508,989,998	7,040,294,709	7,975,480,785	8,851,184,007	9,442,011,509	10,363,400,002	11,038,504,993
African American	4,333,869,553	4,658,139,250	5,227,377,504	5,779,110,997	6,182,547,342	6,795,168,741	7,197,562,898
Native American	162,040,627	170,749,850	187,525,570	212,595,396	223,759,126	242,781,220	253,937,547
Asian	330,318,696	369,518,646	420,670,793	491,506,096	520,765,360	578,136,840	628,400,060
Other/unknown	81,942,252	94,052,352	103,321,420	120,916,686	135,346,446	164,594,907	185,411,817
†Hispanic	1,239,841,936	1,412,010,951	1,639,049,184	1,877,869,974	2,071,283,590	2,309,920,053	2,499,518,953
†Non-Hispanic	9,134,551,636	10,179,048,206	11,732,342,617	13,151,688,442	14,124,161,743	15,495,136,471	16,447,752,713
Unknown	1,042,767,555	741,695,650	542,984,271	425,754,767	308,984,449	339,025,185	356,545,648
Diabetes	4,783,376,655	5,261,454,463	6,051,289,779	6,787,004,382	7,357,857,402	8,138,582,445	8,724,576,763
Hypertension	3,163,846,883	3,370,189,341	3,789,279,072	4,200,722,638	4,487,631,425	4,918,641,608	5,198,291,969
Glomerulonephritis	1,459,653,025	1,528,509,572	1,658,727,046	1,790,000,804	1,853,594,793	1,971,866,044	2,038,592,664
Other cause	1,626,096,698	1,750,505,554	1,950,620,313	2,150,753,631	2,268,627,656	2,473,188,678	2,625,451,787
Unknown	384,187,866	422,095,877	464,459,863	526,831,729	536,718,507	641,802,935	716,904,132
All	11,417,161,126	12,332,754,807	13,914,376,073	15,455,313,183	16,504,429,782	18,144,081,710	19,303,817,315

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

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	1998
Patients	196,837	214,813	230,365	254,132	267,521	283,792	301,432	314,926
Patient years at risk	163,195	177,959	192,618	211,675	223,725	237,172	251,173	262,124
Total Medicare	5,456,115,401	6,289,911,782	7,052,482,073	8,098,394,854	8,925,841,357	10,055,011,265	10,774,315,927	10,967,421,074
Total inpatient (\$)	2,245,586,242	2,662,136,537	2,896,016,194	3,267,794,018	3,481,861,091	3,899,408,088	4,184,111,390	4,251,879,920
Medical DRG	687,516,132	873,826,857	990,349,755	1,143,814,474	1,287,817,786	1,498,994,126	1,670,471,903	1,758,574,157
Surgical DRG	1,219,051,304	1,453,710,296	1,563,099,466	1,764,151,086	1,847,238,153	2,045,924,305	2,147,975,397	2,152,778,990
Other DRG	23,499,120	21,960,415	21,723,701	24,139,636	23,554,427	26,813,379	29,692,883	27,397,775
Transplant DRG	124,812,725	139,218,725	158,584,658	172,298,338	188,796,699	196,423,410	190,590,952	178,463,651
Non-tx pass-throughs	179,577,415	163,454,389	151,971,860	153,445,866	125,557,389	123,643,809	137,432,546	128,081,522
Tx pass-throughs	11,129,546	9,965,855	10,286,754	9,944,617	8,896,636	7,609,058	7,947,708	6,583,825
Total outpatient (\$)	1,894,493,794	2,158,469,362	2,528,482,244	2,845,867,479	3,194,214,596	3,644,465,752	3,873,236,523	4,045,693,229
Outpatient HD	1,225,585,574	1,317,054,467	1,484,524,180	1,640,178,107	1,768,508,649	1,961,174,223	2,097,599,669	2,166,165,723
Outpatient PD	156,716,300	172,172,594	199,458,210	225,224,670	242,976,543	241,597,351	222,494,302	176,626,537
Outpatient other dial.	454,062	247,485	272,979	288,834	244,826	368,903	392,723	438,074
Outpatient ESA	245,706,875	338,766,570	422,056,300	469,651,037	567,259,492	701,172,087	734,842,037	842,979,964
Outpatient vitamin D	341	5,289,659	34,193,157	72,287,233	92,292,894	117,932,933	133,408,280	143,631,803
Outpatient iron	215,241	2,198,258	18,331,161	35,702,680	50,662,939	86,777,536	123,864,644	135,504,557
Outpatient oth. inject.	1,466,621	1,625,979	6,548,892	13,716,990	19,252,395	26,366,200	33,494,997	49,228,165
Radiology	30,240,214	37,046,888	41,157,160	47,521,711	55,951,804	68,931,832	73,835,916	75,456,124
Pharmacy	55,035,303	68,213,161	69,592,081	49,665,761	60,778,189	58,696,327	60,709,094	72,188,994
Ambulance	2,373,543	2,888,761	3,313,621	4,234,343	4,662,209	5,269,965	6,198,559	6,269,246
Laboratory/pathology	67,930,178	80,600,857	87,865,214	94,121,196	101,133,800	107,203,371	109,097,215	102,660,885
Outpatient other	108,769,541	132,364,683	161,169,290	193,274,915	230,490,857	268,975,025	277,299,089	274,543,156
Skilled nursing facility	32,524,864	51,227,545	72,932,283	115,132,148	160,516,502	224,198,608	280,498,884	306,544,469
Home health agency	63,466,241	101,252,739	149,510,795	216,943,883	287,332,662	345,233,610	378,198,308	262,887,988
Hospice	2,073,334	3,878,749	5,452,014	7,774,819	8,504,980	10,069,507	12,164,320	13,603,324
Total physician/supplier (\$)	1,217,970,925	1,312,946,849	1,400,088,543	1,644,882,506	1,793,411,526	1,931,635,700	2,046,106,501	2,086,812,144
Transplant surgery	18,579,500	15,167,521	16,004,883	18,488,708	20,256,807	19,336,736	19,836,210	18,613,610
Inpatient surgery	106,287,279	99,646,966	101,008,538	120,498,854	130,002,103	127,144,452	130,350,458	124,053,122
Outpatient surgery	42,171,951	43,523,967	49,989,254	63,991,382	79,402,334	83,986,409	88,726,654	88,634,408
~E&M neph. inpatient	53,389	45,859,095	53,262,302	62,818,477	65,976,205	67,535,353	72,676,663	79,813,703
~E&M neph. outpatient	6,115,909	6,539,167	7,648,960	9,322,531	10,953,568	10,860,983	11,421,487	11,520,838
~E&M non-neph. inpatient	463,882	92,097,039	103,329,113	130,621,349	145,656,522	157,689,985	179,733,908	199,894,929
~E&M non-neph. outpatient	16,075,235	31,876,676	38,493,098	50,992,600	63,194,592	68,732,508	79,590,160	87,063,313
Dialysis capitation	139,498,003	158,107,533	191,145,117	221,889,473	251,663,634	337,284,264	343,645,306	360,309,224
Inpatient dialysis	107,640,063	105,405,247	104,372,174	112,658,424	115,210,071	107,547,283	101,677,557	103,962,653
Home dialysis	111,832,880	126,787,285	117,012,065	127,928,175	123,477,605	131,876,411	135,355,788	135,455,731
Vascular access	92,527,681	98,664,362	108,071,982	127,791,150	142,225,906	142,420,362	152,853,384	158,906,981
Peritoneal access	3,366,129	3,015,624	3,062,464	3,413,395	4,969,507	5,249,650	4,725,807	4,055,096
Physician/supplier ESA	1,073,020	1,363,248	1,620,598	1,323,087	1,594,138	1,979,489	2,129,294	2,448,388
Physician/supplier iron	10,833	5,829	32,097	67,500	87,249	84,869	94,652	56,661
Immunosuppressive drugs	2,526,197	2,001,572	1,704,557	12,869,375	23,359,553	31,691,012	41,924,999	46,999,732
Durable medical equipment	69,683,897	88,589,319	89,827,519	88,003,938	68,598,458	72,893,012	85,836,791	88,286,919
Physician/supplier radiology	40,645,380	37,021,210	37,754,256	43,953,552	47,451,367	48,878,350	49,412,010	57,903,394
Physician/supplier lab/path.	105,455,541	126,097,756	148,312,771	170,296,026	192,931,386	205,100,094	210,671,122	175,370,910
Physician/supplier ambulance	43,167,816	54,564,917	60,478,778	77,551,300	179,418,251	185,555,010	195,558,003	194,832,498
Other physician/supplier	310,796,340	176,612,516	166,958,018	200,403,210	126,982,272	125,789,467	139,886,250	148,630,033

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.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

	1999	2000	2001	2002	2003	2004	2005
Patients	328,109	344,699	364,073	387,728	397,768	420,491	433,184
Patient years at risk	273,470	287,710	303,665	323,570	331,808	352,876	364,840
Total Medicare	11,417,161,126	12,332,754,807	13,914,376,073	15,455,313,183	16,504,429,782	18,144,081,710	19,303,817,315
Total inpatient (\$)	4,517,318,282	4,754,434,811	5,303,601,091	5,840,883,788	6,031,752,818	6,567,486,383	6,961,129,680
Medical DRG	1,912,225,052	2,013,406,210	2,290,139,759	2,553,121,466	2,709,739,729	2,998,184,117	3,307,749,638
Surgical DRG	2,264,786,935	2,380,317,385	2,623,064,011	2,882,774,206	2,911,931,538	3,162,313,894	3,244,666,678
Other DRG	29,308,679	29,556,956	30,072,357	29,806,498	30,454,624	31,609,849	49,040,163
Transplant DRG	177,460,862	184,478,698	203,794,206	213,188,663	217,904,500	237,606,950	249,081,972
Non-tx pass-throughs	127,763,194	141,139,989	150,455,414	156,057,668	154,826,614	132,222,870	106,077,394
Tx pass-throughs	5,773,560	5,535,574	6,075,343	5,935,286	6,895,813	5,548,703	4,513,833
Total outpatient (\$)	4,402,921,538	4,692,850,856	5,285,402,367	5,884,840,349	6,357,173,965	6,922,998,804	7,154,796,170
Outpatient HD	2,309,860,509	2,461,305,370	2,659,362,261	2,925,165,258	3,039,321,065	3,104,115,746	3,265,587,087
Outpatient PD	158,808,452	149,648,132	151,318,489	177,781,125	227,110,942	233,313,540	259,363,203
Outpatient other dial.	681,674	680,123	627,930	676,471	1,389,986	1,839,197	2,368,694
Outpatient ESA	1,005,632,454	1,082,491,115	1,181,086,504	1,402,376,345	1,559,044,549	1,822,975,421	1,860,047,535
Outpatient vitamin D	146,664,812	253,814,438	368,617,716	373,372,218	379,442,511	429,286,404	374,910,890
Outpatient iron	144,358,074	149,882,748	214,219,858	232,674,615	250,470,579	278,351,892	227,403,167
Outpatient oth. inject.	63,497,566	80,394,255	84,910,145	75,717,881	57,953,296	78,386,856	78,698,680
Radiology	79,294,927	71,727,068	86,901,337	103,539,527	142,712,205	156,897,922	166,653,812
Pharmacy	105,655,728	60,382,607	84,192,394	62,909,452	51,785,379	58,938,252	58,744,901
Ambulance	6,211,807	7,058,180	8,407,246	11,956,516	15,083,213	17,744,288	20,315,151
Laboratory/pathology	101,066,381	103,815,957	113,568,035	115,125,251	126,060,263	150,242,246	161,010,120
Outpatient other	281,189,153	271,650,864	332,190,451	403,545,693	506,799,977	590,907,039	679,692,929
Skilled nursing facility	258,534,910	290,925,286	372,789,579	431,822,297	447,957,736	552,286,136	619,807,235
Home health agency	79,912,153	229,598,426	255,023,477	287,826,891	311,056,583	371,417,183	397,932,066
Hospice	16,650,873	19,709,043	26,500,890	34,744,429	43,146,638	56,869,116	68,312,054
Total physician/supplier (\$)	2,141,823,371	2,345,236,385	2,671,058,669	2,975,195,428	3,313,342,042	3,673,024,087	4,101,840,110
Transplant surgery	17,502,728	17,649,570	18,715,437	18,910,863	19,927,957	20,346,309	21,739,318
Inpatient surgery	116,578,000	128,724,945	138,507,677	140,805,332	150,506,177	154,273,790	159,856,964
Outpatient surgery	87,333,367	99,150,816	111,185,783	120,363,332	134,661,620	149,532,375	190,201,564
~E&M neph. inpatient	83,475,880	87,151,109	93,205,459	100,076,197	113,940,420	123,622,905	131,629,481
~E&M neph. outpatient	12,182,202	13,555,883	14,499,206	17,172,908	19,271,435	21,129,768	22,282,757
~E&M non-neph. inpatient	218,997,530	241,242,478	284,346,183	305,107,732	348,110,595	394,558,045	437,090,113
~E&M non-neph. outpatient	96,500,828	115,201,322	135,085,339	150,386,826	167,395,389	189,985,479	205,447,172
Dialysis capitation	378,166,990	430,130,292	480,546,286	512,120,890	523,699,666	592,054,230	624,782,282
Inpatient dialysis	100,798,273	93,966,408	102,440,200	98,136,207	97,155,208	100,221,252	101,632,582
Home dialysis	129,936,691	135,675,004	137,573,011	107,942,318	56,620,674	52,560,868	46,578,914
Vascular access	169,908,882	172,932,071	187,680,333	197,155,094	222,161,431	232,934,995	279,071,385
Peritoneal access	3,700,780	3,592,995	3,706,421	3,471,039	3,629,568	3,562,306	3,580,180
Physician/supplier ESA	3,182,907	4,807,673	7,113,373	7,777,779	14,603,742	20,914,030	19,533,958
Physician/supplier iron	42,605	43,522	67,161	85,685	107,505	163,115	141,057
Immunosuppressive drugs	47,817,472	75,267,998	113,130,842	153,789,636	199,160,789	207,848,619	234,476,452
Durable medical equipment	92,813,335	82,162,094	91,054,900	114,215,680	132,987,985	132,273,205	136,738,657
Physician/supplier radiology	61,078,260	69,814,630	84,547,077	94,808,284	115,615,423	131,810,343	146,651,941
Physician/supplier lab/path.	171,192,918	182,881,824	191,632,427	257,111,283	296,293,812	316,646,076	345,847,446
Physician/supplier ambulance	179,535,014	208,314,349	258,617,790	303,145,845	364,949,183	443,737,309	560,265,010
Other physician/supplier	171,078,709	182,971,402	217,403,763	272,612,497	332,543,462	384,849,068	434,292,878

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*

	1996-2000			2001-2005		
	All	Medicare primary payor	Medicare secondary payor	All	Medicare primary payor	Medicare secondary payor
Patients	743,056	626,588	116,468	899,452	760,144	139,308
Patient years at risk	1,303,293	1,139,032	164,261	1,651,714	1,432,566	219,149
Total Medicare	53,985,188,086	51,711,783,092	2,273,404,993	81,579,280,082	78,070,110,831	3,509,169,252
Total inpatient (\$)	20,886,362,609	19,919,423,754	966,938,855	29,749,857,421	28,364,821,983	1,385,035,438
Medical DRG	8,537,323,294	8,163,296,853	374,026,441	13,395,328,107	12,788,034,961	607,293,146
Surgical DRG	10,636,873,372	10,170,874,603	465,998,769	14,383,017,903	13,715,619,867	667,398,036
Other DRG	138,871,335	132,903,406	5,967,929	165,301,673	157,799,385	7,502,289
Transplant DRG	904,587,652	815,708,958	88,878,694	1,098,114,699	1,029,931,365	68,183,333
Non-tx pass-throughs	636,091,951	607,181,923	28,910,028	679,862,082	646,921,591	32,940,491
Tx pass-throughs	32,615,006	29,458,012	3,156,994	28,232,957	26,514,814	1,718,144
Total outpatient (\$)	20,200,436,079	19,462,816,561	737,619,518	31,428,905,872	30,252,211,967	1,176,693,905
Outpatient HD	10,763,739,463	10,397,498,951	366,240,512	15,265,010,503	14,724,439,634	540,570,869
Outpatient PD	927,116,987	884,553,212	42,563,775	1,047,807,675	1,006,161,828	41,645,847
Outpatient other dial.	2,496,749	2,410,356	86,392	7,622,764	7,322,043	300,721
Outpatient ESA	4,274,290,308	4,122,461,590	151,828,718	7,525,442,077	7,243,716,432	281,725,644
Outpatient vitamin D	778,975,069	751,867,908	27,107,161	1,883,564,784	1,814,030,485	69,534,299
Outpatient iron	627,350,144	605,377,191	21,972,953	1,204,550,235	1,161,592,227	42,958,008
Outpatient oth. inject.	246,784,952	237,251,587	9,533,366	364,276,286	348,286,546	15,989,740
Radiology	358,682,302	342,841,406	15,840,896	618,267,528	591,195,791	27,071,737
Pharmacy	348,676,617	332,667,840	16,008,777	193,175,431	184,946,174	8,229,257
Ambulance	30,130,017	28,931,723	1,198,294	71,983,021	68,718,982	3,264,038
Laboratory/pathology	508,020,401	480,140,947	27,879,454	617,991,442	588,303,157	29,688,286
Outpatient other	1,334,173,071	1,276,813,850	57,359,220	2,629,214,127	2,513,498,667	115,715,459
Skilled nursing facility	1,310,450,718	1,263,153,645	47,297,073	2,339,620,187	2,234,023,684	105,596,503
Home health agency	1,246,411,571	1,200,385,468	46,026,104	1,563,717,182	1,499,705,326	64,011,856
Hospice	57,083,015	54,107,620	2,975,396	188,612,620	179,418,224	9,194,396
Total physician/supplier (\$)	10,284,444,093	9,811,896,044	472,548,049	16,308,566,800	15,539,929,647	768,637,154
Transplant surgery	91,015,161	80,162,378	10,852,782	97,777,310	90,146,739	7,630,570
Inpatient surgery	609,278,748	579,220,030	30,058,718	723,207,849	685,266,934	37,940,915
Outpatient surgery	434,186,637	410,394,296	23,792,342	682,691,120	646,312,378	36,378,742
~E&M neph. inpatient	380,861,264	363,746,081	17,115,183	548,796,441	522,258,952	26,537,488
~E&M neph. outpatient	56,612,009	51,704,332	4,907,677	89,292,173	82,035,561	7,256,612
~E&M non-neph. inpatient	966,338,422	923,329,590	43,008,832	1,714,309,880	1,632,157,110	82,152,770
~E&M non-neph. outpatient	430,585,051	406,284,641	24,300,410	815,302,815	769,204,865	46,097,950
Dialysis capitation	1,813,968,704	1,741,661,031	72,307,673	2,691,255,628	2,579,999,045	111,256,583
Inpatient dialysis	497,470,447	478,054,729	19,415,719	490,616,904	468,401,282	22,215,623
Home dialysis	655,315,028	622,577,108	32,737,921	395,128,497	379,115,081	16,013,416
Vascular access	781,517,019	750,355,428	31,161,591	1,100,062,095	1,052,727,354	47,334,741
Peritoneal access	20,779,147	19,453,178	1,325,969	17,509,582	16,437,229	1,072,353
Physician/supplier ESA	11,564,849	10,689,928	874,921	57,097,783	53,756,756	3,341,027
Physician/supplier iron	299,770	281,032	18,739	502,426	471,225	31,201
Immunosuppressive drugs	239,450,977	218,333,041	21,117,936	890,347,656	832,854,891	57,492,765
Durable medical equipment	408,732,170	389,157,491	19,574,679	585,617,343	559,761,548	25,855,795
Physician/supplier radiology	277,813,880	263,233,965	14,579,915	554,094,981	525,525,253	28,569,728
Physician/supplier lab/path.	922,596,516	886,146,293	36,450,222	1,375,435,288	1,320,755,151	54,680,137
Physician/supplier ambulance	943,352,533	912,286,721	31,065,812	1,900,290,100	1,822,687,274	77,602,826
Other physician/supplier	742,705,760	704,824,752	37,881,008	1,579,230,931	1,500,055,017	79,175,914

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	2005
0-4	33,505	39,900	39,066	35,663	39,076	43,345	39,767	39,952	40,473	38,391	39,674	45,942	50,519	54,859	64,538
5-9	26,098	20,372	21,864	26,934	23,700	26,052	27,004	25,878	21,743	22,658	26,160	26,283	30,843	31,221	36,443
10-14	24,037	24,791	23,911	26,254	26,455	25,164	25,373	24,671	21,521	21,735	23,910	28,026	31,563	35,601	42,928
15-19	25,934	25,576	27,487	29,113	29,796	28,253	27,054	29,236	27,466	28,991	32,064	34,842	36,382	39,351	42,949
20-29	27,848	28,370	29,668	30,687	31,876	33,097	32,576	32,520	33,338	33,521	35,971	37,945	39,707	42,717	44,897
30-39	28,413	29,853	30,718	32,647	33,729	34,844	34,868	34,101	34,817	35,786	38,311	40,106	41,188	43,816	46,203
40-49	30,374	31,759	32,600	34,130	36,081	38,052	37,862	37,357	38,026	39,194	41,964	44,125	45,327	48,671	50,600
50-59	33,409	35,463	36,970	39,329	40,606	43,213	43,493	42,602	42,847	44,175	47,041	49,051	50,430	53,334	54,648
60-64	36,932	39,074	40,045	42,270	44,150	46,639	46,857	46,618	46,511	47,783	50,941	53,447	55,121	57,916	58,909
65-69	43,143	45,632	46,840	48,969	49,769	52,635	53,342	52,457	51,741	53,008	55,740	58,540	60,191	62,614	63,746
70-79	45,894	49,068	49,956	52,092	53,201	56,609	57,657	56,430	56,048	57,847	61,296	63,341	64,779	67,451	69,345
80+	47,213	49,773	52,424	54,171	55,280	58,962	60,520	58,872	58,354	59,738	63,603	66,083	68,252	70,361	74,159
0-19	26,075	25,759	26,744	28,649	28,948	28,398	27,611	28,329	25,894	26,830	29,617	32,771	35,553	38,834	44,148
20-44	28,646	29,826	30,763	32,370	33,871	35,205	35,098	34,565	35,221	35,976	38,675	40,772	41,939	44,805	47,380
45-64	34,010	35,945	37,128	39,231	40,710	43,171	43,296	42,702	42,994	44,361	47,235	49,360	50,844	53,874	55,076
65-74	44,144	46,882	47,969	50,143	51,033	54,058	54,987	53,941	53,359	54,956	57,922	60,153	61,692	64,038	65,517
75+	46,863	49,948	51,554	53,475	54,729	58,429	59,576	58,178	57,778	59,261	63,063	65,564	67,348	69,999	72,849
Male	34,336	36,431	37,543	39,614	40,778	43,134	43,655	43,323	43,544	44,848	47,918	50,244	52,000	54,809	56,969
Female	38,587	40,881	42,264	44,509	46,363	49,184	49,717	48,950	49,032	50,529	53,934	56,432	57,869	60,859	62,386
White	35,593	37,639	38,730	40,649	42,100	44,445	45,114	44,599	44,359	45,692	48,785	51,077	52,715	55,460	57,322
African American	38,186	40,746	42,114	44,693	46,189	49,061	49,321	48,679	49,374	50,873	54,515	57,055	58,850	62,009	64,032
Native American	34,087	34,863	37,968	39,631	41,093	43,809	43,545	42,633	44,142	44,231	46,529	50,095	50,556	53,061	53,583
Asian	30,741	32,279	34,308	36,022	37,233	40,113	40,891	40,572	41,418	42,674	45,034	47,584	47,574	49,890	51,316
Other/unknown	34,309	24,112	24,715	40,797	52,751	55,120	52,487	53,342	52,840	56,601	57,827	59,291	59,113	61,964	62,039
†Hispanic						45,726	46,245	46,043	45,782	47,088	49,968	52,675	54,299	56,871	58,503
†Non-Hispanic						44,888	45,945	45,780	46,194	47,827	51,281	53,692	55,344	58,141	59,955
Diabetes	42,470	44,936	46,865	49,283	50,884	54,442	54,945	54,042	53,581	55,327	58,997	61,411	62,984	66,207	68,256
Hypertension	38,491	41,005	42,181	44,008	44,701	46,793	47,283	46,476	47,049	48,164	51,549	53,952	55,680	58,114	59,929
Glomerulonephritis	29,497	30,549	31,052	32,768	34,251	35,599	35,570	35,153	35,339	35,880	37,876	39,609	40,643	42,743	43,705
Other cause	32,061	33,718	34,171	35,858	37,632	39,675	40,001	39,535	39,770	41,148	43,788	45,957	47,603	49,950	51,532
Unknown cause	34,183	35,742	35,912	38,498	39,028	41,360	41,617	41,582	41,533	42,792	44,494	46,976	46,846	51,702	54,732
All	36,340	38,527	39,767	41,921	43,403	45,970	46,490	45,950	46,106	47,484	50,698	53,088	54,686	57,560	59,417

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.

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	2005
0-4	41,630	62,188	52,347	47,645	58,500	55,785	53,576	54,833	53,808	55,095	56,622	59,514	69,342	80,577	86,001
5-9	43,690	37,322	41,340	43,340	39,608	47,554	54,039	51,568	45,449	50,263	50,243	48,120	49,171	53,038	57,812
10-14	37,850	37,767	39,362	42,878	43,933	43,745	42,573	43,100	39,072	40,904	43,366	45,955	49,488	48,043	55,438
15-19	36,262	35,350	37,666	40,430	42,600	41,623	39,484	43,054	40,004	43,822	46,693	50,734	49,398	50,228	57,218
20-29	36,385	38,422	39,753	41,069	41,654	44,171	42,819	42,645	44,078	44,432	46,654	48,775	51,117	53,932	56,090
30-39	37,059	39,155	40,731	43,116	44,375	46,558	46,671	45,886	47,176	48,121	50,922	52,785	54,260	56,396	59,450
40-49	37,047	39,404	40,656	42,396	44,883	47,489	47,167	47,076	48,461	49,915	53,009	55,634	57,399	60,611	62,906
50-59	38,420	41,177	43,215	46,014	47,162	50,647	51,008	50,580	51,668	53,013	56,411	58,767	60,626	63,539	65,263
60-64	40,178	43,060	44,372	46,976	48,957	52,161	52,638	52,889	53,442	54,881	58,744	61,893	63,621	67,155	68,248
65-69	45,025	47,916	49,694	52,372	53,363	56,914	58,047	57,312	56,974	58,642	62,013	65,369	67,828	70,842	72,685
70-79	46,449	49,802	50,816	53,099	54,366	58,086	59,281	58,176	58,026	60,117	63,862	66,365	68,317	71,631	74,155
80+	47,306	49,873	52,479	54,270	55,390	59,100	60,691	59,063	58,605	60,032	63,960	66,519	68,794	70,936	74,880
0-19	37,782	38,043	39,575	41,877	44,071	43,883	42,507	44,517	41,123	44,509	47,021	50,110	50,983	52,522	59,255
20-44	36,840	38,898	40,369	42,342	44,045	46,331	45,955	45,556	46,808	47,743	50,658	52,976	54,623	57,237	60,250
45-64	38,799	41,566	43,168	45,657	47,222	50,481	50,760	50,600	51,637	53,074	56,497	59,097	60,946	64,122	65,635
65-74	45,526	48,621	50,082	52,625	53,707	57,275	58,519	57,623	57,404	59,402	62,945	65,754	68,018	71,054	73,301
75+	47,077	50,149	51,765	53,763	55,052	58,872	60,107	58,742	58,422	60,060	63,910	66,574	68,611	71,478	74,637
Male	40,037	42,844	44,260	46,558	47,681	50,836	51,433	51,130	51,699	53,152	56,421	59,082	61,178	64,078	66,749
Female	43,034	45,920	47,678	50,205	52,071	55,527	56,225	55,553	55,966	57,706	61,555	64,304	66,198	69,294	71,176
White	42,306	45,226	46,760	49,084	50,517	53,760	54,714	54,229	54,331	55,917	59,343	61,935	64,108	66,825	69,246
African American	40,666	43,603	45,175	47,854	49,412	52,779	53,071	52,556	53,530	55,083	58,989	61,778	63,815	67,286	69,537
Native American	37,999	38,777	42,262	43,299	45,690	49,134	48,562	47,980	49,366	49,705	52,058	56,155	56,524	58,887	59,008
Asian	36,011	37,678	40,728	42,449	43,590	47,116	47,894	47,716	49,111	50,959	52,997	55,892	56,146	58,241	60,123
Other/unknown	52,289	36,090	38,448	53,602	56,545	57,050	53,473	54,374	54,039	57,875	59,406	60,612	59,987	62,997	65,421
†Hispanic					52,612	52,958	52,921	52,985	54,379	57,490	60,693	62,632	65,126	67,085	
†Non-Hispanic					52,915	53,548	53,062	53,589	55,296	59,013	61,669	63,730	66,723	69,007	
Diabetes	46,450	49,260	51,342	53,900	55,468	59,600	60,043	59,136	58,844	60,513	64,357	66,774	68,616	72,041	74,399
Hypertension	41,347	44,246	45,638	47,626	48,377	51,042	51,718	51,032	51,835	53,078	56,547	59,200	61,180	63,662	65,767
Glomerulonephritis	36,573	38,657	39,879	41,776	43,409	45,592	45,429	45,398	46,301	47,298	49,862	52,412	54,059	56,378	57,970
Other cause	38,503	41,226	42,251	44,879	46,923	49,905	50,953	50,477	51,531	53,515	56,831	59,688	62,154	64,538	66,734
Unknown cause	41,588	44,380	44,628	47,624	48,279	51,251	50,967	51,044	51,142	52,874	55,146	58,553	59,425	64,149	68,099
All	41,513	44,356	45,940	48,350	49,832	53,127	53,763	53,274	53,765	55,340	58,874	61,557	63,545	66,520	68,808

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.



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	2005
0-4	47,613	75,385	53,290	64,455	73,736	65,607	63,006	55,705	87,861	85,984	98,659	76,847	67,911	92,220	131,564
5-9	43,880	39,866	48,491	46,785	49,881	57,805	63,585	57,806	58,636	52,147	62,703	59,606	67,668	66,681	71,621
10-14	41,338	40,099	42,561	44,826	46,045	48,000	45,432	51,441	44,090	45,738	52,050	54,620	55,793	51,017	58,994
15-19	36,798	36,709	38,524	40,787	44,962	43,619	41,198	45,631	41,108	45,923	49,217	53,519	51,944	53,571	60,216
20-29	37,091	39,172	41,232	42,244	42,764	45,697	44,538	43,767	45,315	45,539	48,302	50,500	53,000	55,928	57,795
30-39	37,889	39,993	42,064	44,449	45,819	48,042	47,896	46,828	48,506	49,206	52,369	54,329	55,967	58,243	61,112
40-49	37,532	39,980	41,514	43,435	45,952	48,650	48,235	48,139	49,534	50,941	54,134	56,658	58,571	62,031	64,488
50-59	38,792	41,924	43,972	46,884	47,926	51,457	51,952	51,135	52,423	53,702	57,257	59,623	61,685	64,633	66,413
60-64	40,750	43,687	45,257	47,843	49,728	52,916	53,302	53,349	54,023	55,293	59,352	62,561	64,481	68,190	69,178
65-69	45,216	48,322	50,227	52,983	53,945	57,755	58,562	57,704	57,361	59,144	62,295	65,865	68,458	71,539	73,410
70-79	46,314	49,856	51,129	53,175	54,770	58,438	59,439	58,243	58,065	60,096	63,849	66,562	68,579	72,062	74,547
80+	46,884	49,343	52,164	53,930	55,324	59,092	60,441	58,705	58,111	59,547	63,445	65,960	68,218	70,464	74,482
0-19	38,420	38,869	40,454	42,872	46,713	45,863	43,824	47,576	43,736	47,227	51,641	54,719	53,655	54,749	62,380
20-44	37,521	39,648	41,549	43,569	45,337	47,783	47,252	46,591	48,059	48,860	52,039	54,452	56,244	59,035	61,968
45-64	39,279	42,246	44,020	46,572	48,065	51,343	51,662	51,261	52,420	53,754	57,357	59,937	61,972	65,260	66,807
65-74	45,584	48,881	50,577	53,061	54,269	57,974	58,895	57,922	57,714	59,724	63,167	66,201	68,555	71,731	73,950
75+	46,800	49,932	51,705	53,526	55,146	58,911	60,036	58,525	58,094	59,727	63,561	66,289	68,359	71,323	74,528
Male	40,320	43,263	44,971	47,198	48,404	51,599	52,079	51,548	52,150	53,572	56,885	59,591	61,833	64,805	67,455
Female	43,614	46,712	48,661	51,222	53,155	56,744	57,316	56,421	56,835	58,491	62,446	65,291	67,249	70,528	72,427
White	43,012	46,124	47,948	50,189	51,736	55,100	55,799	55,060	55,109	56,624	60,119	62,786	65,113	67,889	70,311
African American	40,839	43,926	45,687	48,398	49,955	53,315	53,658	52,941	53,988	55,484	59,442	62,276	64,378	68,037	70,247
Native American	38,229	39,171	42,939	43,849	45,934	49,807	49,183	48,569	49,804	50,111	52,550	56,764	56,948	59,523	59,530
Asian	36,468	38,418	41,444	43,371	44,798	48,450	49,255	48,648	50,045	52,034	54,090	57,036	57,380	59,563	61,650
Other/unknown	46,798	36,390	39,033	55,326	58,237	59,609	55,553	55,976	55,499	58,930	60,849	62,096	60,982	64,108	67,210
†Hispanic						53,770	54,007	53,902	53,853	55,312	58,368	61,662	63,666	66,119	68,185
†Non-Hispanic						53,965	54,426	53,660	54,186	55,828	59,622	62,354	64,532	67,689	69,947
Diabetes	46,862	49,755	51,972	54,482	56,108	60,308	60,584	59,506	59,216	60,809	64,710	67,186	69,163	72,654	75,023
Hypertension	41,441	44,539	46,213	48,154	49,007	51,762	52,193	51,393	52,183	53,443	56,910	59,708	61,709	64,377	66,485
Glomerulonephritis	37,255	39,641	41,170	43,086	44,878	47,090	46,843	46,499	47,443	48,496	51,180	53,772	55,531	58,126	59,619
Other cause	39,131	41,987	43,292	45,932	47,950	50,974	52,183	51,285	52,606	54,276	57,837	60,754	63,384	65,883	68,069
Unknown cause	42,009	44,998	45,389	48,275	49,342	52,444	52,007	51,725	51,506	53,431	55,596	58,972	60,168	64,589	68,607
All	41,949	44,968	46,791	49,181	50,736	54,113	54,623	53,904	54,410	55,926	59,532	62,283	64,377	67,474	69,758

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.

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	2005
0-4	36,417	55,496	50,544	43,104	52,975	52,584	49,847	55,185	45,722	41,429	47,212	54,264	69,461	71,985	75,843
5-9	41,995	36,382	34,259	41,320	36,938	43,620	48,941	46,768	34,406	47,980	41,143	41,333	39,898	45,870	50,285
10-14	34,716	34,928	35,922	39,803	41,939	40,419	40,722	37,787	34,197	33,934	33,058	36,852	43,347	44,781	52,709
15-19	34,202	33,292	35,181	39,280	37,864	38,195	36,493	37,837	37,734	38,114	40,503	42,764	42,119	39,469	47,024
20-29	32,796	34,847	34,213	36,276	37,912	38,556	36,005	37,433	37,951	38,402	38,501	39,743	40,936	43,377	45,839
30-39	33,120	35,308	35,454	37,516	38,778	40,503	41,047	40,775	39,685	41,436	41,638	42,713	42,544	43,118	46,884
40-49	33,719	35,790	36,067	37,163	40,200	41,937	41,254	40,517	40,645	41,908	43,491	45,950	46,385	46,905	46,928
50-59	34,688	35,936	37,616	39,727	42,686	45,415	44,588	45,695	44,190	45,419	46,546	48,576	47,885	49,799	50,244
60-64	33,733	36,843	36,934	39,713	42,999	45,936	46,112	47,054	45,232	47,981	48,604	49,997	49,286	50,769	51,955
65-69	36,353	38,337	39,866	41,644	45,606	46,695	49,076	48,579	46,843	47,177	51,602	52,276	52,759	53,847	54,065
70-79	36,953	38,808	39,389	41,388	43,918	47,691	49,135	48,737	47,657	49,418	51,278	50,196	51,008	51,968	54,587
80+	36,682	37,197	39,754	40,707	43,765	45,593	45,967	45,150	45,656	45,591	47,509	50,352	52,186	51,817	55,301
0-19	35,746	36,571	37,234	40,191	40,941	41,709	41,001	40,884	37,423	38,720	39,565	42,631	46,899	47,382	54,101
20-44	33,152	35,171	35,355	37,034	39,016	40,371	39,915	40,024	39,572	40,591	41,551	42,845	43,024	44,400	46,972
45-64	34,225	36,313	37,060	39,202	42,176	44,841	44,257	44,724	43,589	45,424	46,294	48,406	48,087	49,385	49,759
65-74	36,541	38,758	39,682	41,648	44,999	46,936	49,298	48,744	47,179	48,314	51,423	51,055	52,268	52,722	54,280
75+	37,035	37,703	39,440	40,837	43,459	47,443	47,547	47,246	47,049	47,842	49,898	50,720	50,889	52,315	54,938
Male	34,295	36,174	36,667	38,563	41,145	43,283	43,516	43,745	42,983	43,909	45,512	47,152	47,304	48,855	51,040
Female	35,203	37,263	38,227	40,196	43,128	45,450	45,601	45,518	44,237	45,964	47,410	48,383	48,975	49,670	50,647
White	34,596	36,565	37,344	39,330	42,107	44,106	44,981	44,729	43,770	44,781	46,376	47,639	47,846	49,602	51,279
African American	35,461	37,789	38,037	40,002	42,887	45,810	44,573	45,309	44,035	45,937	47,684	49,215	49,980	49,974	52,016
Native American	34,590	34,250	36,230	37,723	43,193	43,295	41,653	42,031	42,905	42,507	45,212	46,438	48,782	47,898	48,573
Asian	29,651	29,235	33,631	34,444	35,278	38,618	38,493	39,846	39,625	41,408	41,673	42,374	41,715	41,934	42,084
Other/unknown	74,055	28,739	31,977	42,423	37,509	39,576	39,118	40,880	38,317	46,418	41,659	44,178	45,420	44,221	39,329
†Hispanic					42,031	43,058	42,403	42,335	41,699	44,214	45,512	45,927	48,895	47,902	
†Non-Hispanic					42,429	43,212	43,949	43,276	44,959	46,725	48,022	48,472	49,353	51,293	
Diabetes	39,081	41,788	43,709	45,743	48,677	51,789	52,024	51,766	50,154	51,916	53,468	54,790	54,591	56,867	58,028
Hypertension	34,023	35,560	35,954	37,494	40,381	41,906	43,179	42,253	41,884	42,601	44,804	44,981	46,000	46,303	48,287
Glomerulonephritis	31,840	32,783	32,883	34,801	36,627	38,378	38,146	38,846	38,505	38,853	40,060	41,740	42,846	42,911	45,099
Other cause	32,621	34,788	34,863	36,850	39,825	42,106	41,045	42,127	40,251	42,930	43,957	45,686	45,773	46,987	48,345
Unknown cause	34,786	36,235	34,381	38,305	39,219	39,366	39,006	40,109	41,146	40,903	41,494	43,642	42,033	43,736	45,149
All	34,733	36,697	37,422	39,357	42,110	44,339	44,539	44,621	43,612	44,940	46,461	47,762	48,131	49,256	50,847

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.



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	2005
0-4	27,103	23,773	28,837	24,755	22,802	32,107	30,149	31,358	31,591	27,761	27,089	35,038	36,453	35,162	49,523
5-9	17,708	13,431	14,899	19,924	16,829	17,853	17,003	17,529	14,818	14,184	16,639	17,000	21,548	19,862	25,575
10-14	14,457	16,971	14,559	16,738	15,830	15,181	16,450	15,551	13,365	13,498	14,818	17,923	21,450	27,311	34,330
15-19	16,045	16,105	17,680	18,161	19,014	16,985	15,906	16,505	16,646	16,416	20,030	20,503	24,087	27,115	28,488
20-29	16,665	15,738	16,682	16,830	18,346	17,919	18,139	17,779	17,475	17,212	19,517	20,595	21,036	23,035	25,146
30-39	15,506	16,307	16,213	17,324	17,753	17,625	17,376	16,722	16,570	17,370	19,140	20,275	20,585	22,784	23,693
40-49	16,526	16,421	16,867	17,753	18,142	18,933	18,980	17,421	16,813	17,539	19,521	20,528	20,572	22,861	23,784
50-59	16,397	16,607	17,189	18,518	19,822	20,353	20,705	19,422	17,892	19,726	20,879	21,903	22,090	23,834	24,296
60-64	16,635	16,124	16,816	17,954	19,454	20,272	20,678	19,764	18,876	20,543	21,395	21,971	24,466	24,599	25,871
65-69	17,402	18,048	17,357	17,796	19,683	19,694	20,326	20,791	19,840	21,103	22,446	24,507	24,693	26,320	27,036
70-79	14,721	16,061	17,841	18,065	18,407	18,005	19,188	19,702	19,436	21,039	24,146	23,969	24,843	25,411	26,493
80+	16,129	17,406	26,223	13,776	17,618	14,522	17,375	14,579	11,587	18,667	19,958	18,981	19,914	23,564	25,863
0-19	16,767	16,461	17,219	18,562	18,118	17,694	17,333	17,459	16,256	15,887	18,386	20,238	23,928	26,867	31,669
20-44	16,041	16,225	16,341	17,163	17,954	17,972	17,999	17,059	16,747	17,187	19,197	20,356	20,660	22,662	24,144
45-64	16,518	16,414	17,216	18,369	19,293	20,012	20,198	19,013	17,880	19,490	20,743	21,608	22,250	23,897	24,448
65-74	17,032	17,351	17,439	17,973	19,411	19,240	20,082	20,447	19,620	21,304	22,863	24,091	24,693	25,897	26,807
75+	11,519	19,627	19,802	15,627	16,955	17,139	17,902	19,120	19,151	18,751	24,824	24,748	24,291	25,582	26,504
Male	15,968	16,045	16,541	17,614	18,454	18,525	18,705	18,046	17,367	18,384	20,397	21,122	22,063	23,797	24,803
Female	16,813	16,933	17,244	17,992	18,925	19,553	19,791	18,781	17,990	19,280	20,650	22,288	22,480	24,270	25,328
White	15,476	15,505	16,065	16,769	17,657	18,019	18,094	17,332	16,556	17,593	19,191	20,340	20,971	22,795	23,603
African American	19,866	19,982	20,118	21,791	22,802	22,796	23,226	22,211	21,516	23,229	25,354	26,350	27,118	28,121	29,807
Native American	15,326	15,316	16,596	21,388	18,200	18,314	19,347	16,902	18,346	17,738	19,719	20,287	21,058	23,946	26,215
Asian	14,284	15,978	14,465	14,735	14,847	15,424	16,307	15,976	15,326	15,160	17,930	18,548	18,014	20,530	21,773
Other/unknown	11,150	9,699	4,520	8,993	15,611	10,470	17,190	16,360	13,623	22,048	13,326	20,819	35,848	48,844	35,715
†Hispanic						19,496	19,931	19,016	18,272	18,818	20,554	21,344	21,940	23,895	24,960
†Non-Hispanic						20,301	20,214	19,237	18,379	19,617	21,346	22,470	23,004	24,464	25,381
Diabetes	21,907	22,227	23,484	24,849	25,723	26,101	26,213	24,574	23,153	25,402	27,430	29,395	29,816	31,633	32,513
Hypertension	17,602	17,820	18,205	18,974	19,382	19,158	19,488	18,505	18,153	19,023	21,849	22,560	23,084	24,398	25,450
Glomerulonephritis	13,869	13,690	13,195	14,554	15,357	15,544	16,084	15,247	14,806	15,441	16,676	17,377	18,054	19,726	20,427
Other cause	14,588	14,510	14,897	14,838	15,919	16,424	15,929	15,983	15,161	15,939	17,209	18,105	19,143	20,542	21,856
Unknown cause	12,136	12,277	13,336	13,839	13,928	13,985	15,149	14,768	14,863	15,519	16,536	17,080	16,224	20,001	21,572
All	16,297	16,394	16,819	17,764	18,639	18,931	19,137	18,340	17,618	18,746	20,499	21,595	22,232	23,988	25,015

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.

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	2005
0-4	39,327	52,774	44,379	42,983	52,187	54,187	48,187	45,295	47,750	36,481	48,701	56,290	57,069	82,253	82,135
5-9	39,285	34,745	38,729	40,266	33,600	44,804	50,871	45,653	37,923	47,555	46,495	49,195	43,285	55,858	45,339
10-14	35,913	34,304	37,596	39,994	40,044	36,888	37,650	37,557	36,838	37,837	36,309	43,461	45,863	44,759	54,171
15-19	34,797	33,931	35,867	37,660	40,459	38,719	38,381	40,746	37,098	41,158	44,207	46,854	47,289	48,208	53,299
20-29	35,018	37,110	38,522	39,976	40,237	42,757	41,795	41,395	42,568	43,168	45,216	47,447	49,739	52,976	54,998
30-39	35,838	37,594	39,274	41,959	43,425	44,987	46,039	44,949	45,923	46,819	49,803	51,835	52,913	55,652	58,523
40-49	36,062	38,030	39,355	41,412	43,795	46,422	46,596	46,080	47,102	48,460	51,890	54,888	56,266	60,087	62,265
50-59	37,472	40,043	41,946	45,302	46,433	49,636	50,669	49,839	50,519	51,725	55,450	58,163	59,776	62,889	64,441
60-64	39,195	41,752	43,179	46,264	48,427	51,169	52,185	52,390	52,468	53,934	58,071	61,769	63,080	67,276	68,196
65-69	42,558	45,052	46,510	50,255	51,588	54,968	56,334	55,762	55,436	56,586	60,475	64,579	66,617	70,398	72,591
70-79	44,086	46,776	47,313	51,008	52,714	56,128	57,373	56,571	56,466	58,096	62,504	65,690	67,113	71,171	73,836
80+	45,205	47,025	48,968	52,258	53,664	57,170	58,810	57,603	57,300	58,039	62,624	65,791	67,093	70,577	74,558
0-19	35,839	35,485	37,200	38,903	40,925	40,231	40,022	40,784	37,789	40,720	43,087	47,014	47,332	50,786	55,129
20-44	35,553	37,359	38,972	41,296	42,954	45,010	45,369	44,584	45,541	46,429	49,489	52,111	53,378	56,635	59,384
45-64	37,904	40,389	41,952	44,888	46,505	49,460	50,316	49,881	50,479	51,851	55,613	58,594	60,137	63,704	65,097
65-74	43,116	45,694	46,710	50,434	51,927	55,302	56,718	56,068	55,875	57,356	61,487	65,028	66,850	70,598	73,091
75+	44,802	47,180	48,330	51,857	53,477	56,965	58,200	57,170	56,952	58,068	62,580	65,867	67,120	71,073	74,327
Male	38,461	40,945	42,208	45,208	46,460	49,529	50,548	50,125	50,448	51,615	55,279	58,435	60,027	63,596	66,212
Female	41,851	44,298	45,780	49,184	51,229	54,298	55,425	54,664	54,941	56,434	60,786	64,077	65,591	69,392	71,315
White	41,095	43,520	44,883	48,061	49,634	52,737	54,016	53,450	53,395	54,687	58,628	61,755	63,387	66,855	69,192
African American	39,073	41,781	43,134	46,511	48,221	51,262	52,118	51,464	52,183	53,499	57,744	61,027	62,705	66,781	69,102
Native American	36,090	37,215	40,669	42,551	45,184	47,982	47,833	47,082	48,312	48,566	51,143	55,355	55,650	58,111	58,373
Asian	34,525	35,777	38,115	40,458	42,202	45,202	46,487	46,099	47,345	48,873	51,759	55,120	55,092	57,773	59,683
Other/unknown	30,576	21,482	22,528	39,159	51,471	54,145	51,451	52,742	52,424	55,658	56,892	58,957	58,473	62,742	65,157
†Hispanic					51,265	52,076	52,045	51,790	53,019	56,643	60,256	62,169	65,107	66,985	
†Non-Hispanic					51,896	52,903	52,221	52,537	53,930	58,101	61,294	62,936	66,516	68,783	
Diabetes	45,273	47,520	49,232	52,768	54,582	58,262	59,214	58,238	57,756	59,116	63,413	66,431	68,104	71,898	74,177
Hypertension	40,012	42,621	43,620	46,389	47,339	49,822	50,696	50,040	50,679	51,649	55,564	58,698	60,117	63,405	65,645
Glomerulonephritis	35,396	37,289	38,562	40,804	42,552	44,566	44,923	44,517	45,223	46,082	49,071	51,737	53,154	55,988	57,550
Other cause	37,214	39,578	40,603	43,838	45,934	48,714	50,277	49,588	50,336	52,084	55,853	59,378	61,080	64,283	66,330
Unknown cause	37,947	39,462	40,120	44,826	45,216	48,831	49,152	49,121	49,213	50,624	53,088	57,186	56,034	63,582	67,530
All	40,132	42,597	43,973	47,171	48,809	51,869	52,931	52,333	52,631	53,934	57,915	61,112	62,652	66,311	68,585

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.



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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	2005
0-4	94,465	94,054	90,037	104,119	94,862	112,537	94,064	103,766	94,251	89,092	97,710	106,793	107,131	110,652	136,160
5-9	96,362	85,715	94,443	102,983	93,406	99,123	102,940	95,375	88,985	89,745	84,022	78,728	88,178	81,058	108,698
10-14	81,759	85,833	74,288	81,598	92,246	83,217	95,868	81,954	77,032	80,361	89,940	82,605	93,076	95,504	92,865
15-19	76,472	77,624	82,736	88,253	84,478	86,138	81,771	89,443	79,880	80,160	88,042	92,418	90,373	99,508	102,412
20-29	76,357	80,779	84,899	85,999	88,898	87,408	89,146	86,718	86,119	83,591	90,761	92,770	92,756	91,018	96,612
30-39	79,348	83,194	87,106	89,388	93,135	94,501	91,033	87,732	90,780	92,553	93,031	94,380	95,420	99,959	100,514
40-49	80,969	82,833	85,543	87,194	92,293	92,141	93,195	87,994	89,864	92,423	94,043	97,181	94,805	98,035	100,661
50-59	81,874	83,220	87,170	90,845	93,902	93,719	95,520	91,839	91,506	95,225	94,868	97,740	97,647	102,678	101,860
60-64	81,962	85,845	85,712	87,378	93,983	93,661	95,036	94,638	93,550	98,006	98,959	100,658	101,431	100,189	104,479
65-69	86,014	85,197	89,355	92,154	97,980	97,875	107,702	99,842	98,167	97,904	103,897	103,554	101,414	108,547	109,278
70-79	81,758	80,902	105,487	91,867	97,456	91,461	101,615	104,554	103,376	103,223	110,403	106,675	104,476	104,102	110,723
80+	97,945	93,110	147,155	75,313	101,053	71,019	88,063	77,466	71,440	102,359	118,903	88,371	91,054	112,066	121,824
0-19	82,683	82,873	83,902	89,860	88,298	90,647	90,273	89,884	81,755	82,190	88,914	89,752	93,251	97,939	104,128
20-44	78,822	82,395	85,596	87,875	91,931	91,863	90,942	87,151	89,151	89,545	93,144	94,543	94,751	96,832	100,685
45-64	81,605	83,572	87,014	89,183	93,130	93,282	94,874	91,699	91,583	95,585	95,048	98,355	97,598	101,276	101,350
65-74	85,466	84,439	91,845	91,721	97,548	96,683	105,567	100,847	99,672	99,359	105,368	103,539	102,394	106,935	109,848
75+	73,261	80,531	135,940	103,847	104,966	74,709	115,386	102,386	93,799	103,400	118,244	115,809	102,090	108,011	111,673
Male	80,239	81,740	85,790	88,521	92,194	91,045	93,258	90,045	90,282	92,174	95,470	96,713	96,336	99,428	102,532
Female	80,589	84,780	87,572	89,094	93,298	95,179	94,470	91,091	91,549	94,294	95,093	98,450	98,047	101,654	102,801
White	81,098	83,272	87,490	89,531	93,088	93,261	94,600	91,196	89,605	91,563	93,913	97,024	95,941	100,543	102,159
African American	79,242	83,130	84,910	88,046	92,983	91,641	93,157	89,982	94,333	97,474	99,454	99,442	100,564	101,780	105,246
Native American	72,651	75,610	75,314	90,115	89,174	89,020	90,527	79,142	85,513	84,229	82,845	87,571	93,699	87,692	102,473
Asian	77,145	78,303	84,033	80,505	82,345	92,474	85,581	86,273	86,438	86,125	89,326	91,874	88,398	92,836	97,452
Other/unknown	85,516	.	79,204	68,126	81,814	108,849	73,538	70,490	66,030	93,411	79,307	113,044	97,707	99,283	88,099
†Hispanic						90,250	92,886	87,431	88,022	86,962	89,926	90,529	91,785	95,146	95,448
†Non-Hispanic						92,938	93,691	90,733	91,184	93,939	96,254	98,649	98,039	100,828	103,213
Diabetes	85,399	91,216	94,683	95,455	100,742	99,280	101,077	96,818	95,781	102,140	103,003	106,602	106,997	108,554	112,572
Hypertension	79,813	79,647	84,119	85,728	90,293	89,149	92,520	87,669	90,679	91,903	95,130	96,349	94,845	97,037	98,728
Glomerulonephritis	77,171	79,061	80,879	85,440	87,912	88,372	89,207	86,547	86,913	86,956	89,240	90,998	90,629	94,464	94,624
Other cause	80,022	82,704	85,251	88,024	90,406	93,624	91,684	89,910	88,976	89,215	93,727	94,038	95,003	98,155	100,206
Unknown cause	81,062	85,289	94,042	91,952	104,007	94,262	97,359	93,977	95,115	97,374	91,813	97,325	88,354	104,816	111,742
All	80,381	82,952	86,512	88,747	92,621	92,718	93,748	90,471	90,793	93,040	95,316	97,414	97,021	100,322	102,637

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.

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	2005
0-4	11,813	12,637	12,815	11,956	12,704	14,050	16,846	14,268	10,678	18,751	13,434	15,488	17,221	18,302	25,649
5-9	8,348	7,368	6,489	10,778	8,789	7,957	7,708	10,277	9,255	8,703	9,117	11,612	13,656	13,136	12,617
10-14	7,021	7,998	7,552	7,218	5,978	7,475	8,598	7,862	6,949	7,709	8,009	9,776	12,139	14,474	20,489
15-19	7,181	7,281	7,195	6,810	8,764	7,922	7,571	7,177	7,711	8,922	10,910	9,873	14,104	14,667	12,883
20-29	7,260	6,826	6,818	7,417	8,022	8,121	8,696	8,680	8,691	8,319	10,011	10,886	11,864	12,858	14,097
30-39	8,044	8,571	8,479	9,259	9,330	9,960	10,060	9,701	9,624	10,020	11,358	12,245	12,733	13,538	14,372
40-49	8,778	9,201	9,354	10,350	10,302	11,145	11,308	10,878	10,341	11,071	12,400	13,363	14,078	15,234	15,783
50-59	8,828	9,738	10,040	11,159	12,216	12,724	13,254	12,544	11,735	13,168	14,119	14,874	15,807	16,342	16,875
60-64	9,984	9,770	10,684	11,932	12,341	13,069	14,376	13,874	13,398	14,731	15,655	16,092	18,362	18,137	18,828
65-69	10,507	11,360	11,548	12,224	13,848	14,004	14,101	14,314	14,524	15,293	16,722	18,206	18,766	20,345	20,281
70-79	10,778	11,023	12,251	13,526	13,634	13,879	14,690	15,670	16,021	16,551	19,123	19,345	20,449	21,323	21,536
80+	10,747	11,935	10,181	9,558	15,945	12,216	16,545	12,953	10,989	15,307	16,763	17,130	18,240	20,762	21,958
0-19	7,672	7,866	7,570	8,022	8,329	8,175	8,542	8,422	7,933	9,084	9,874	10,482	13,745	14,685	16,089
20-44	7,984	8,327	8,274	9,008	9,243	9,881	10,153	9,789	9,492	9,938	11,355	12,262	12,930	13,932	14,771
45-64	9,115	9,570	10,031	11,246	11,750	12,355	12,902	12,402	11,851	13,025	14,076	14,828	16,022	16,530	17,091
65-74	10,627	11,166	11,764	12,591	13,831	13,816	14,357	14,669	14,817	15,791	17,367	18,468	19,286	20,597	20,596
75+	9,857	13,043	11,411	12,567	13,310	15,669	14,008	16,096	17,216	15,821	20,280	20,022	20,728	21,925	22,550
Male	8,335	8,790	9,060	10,014	10,468	11,154	11,433	11,347	10,975	11,951	13,389	14,186	15,482	16,348	16,896
Female	8,898	9,323	9,468	10,549	11,105	11,542	12,301	11,813	11,727	12,547	13,966	15,148	16,081	17,079	17,836
White	8,462	8,838	9,115	10,202	10,559	11,160	11,489	11,244	11,084	11,954	13,313	14,162	15,436	16,418	16,961
African American	9,386	10,035	10,115	10,863	11,936	12,642	13,348	13,130	12,443	13,755	15,274	16,570	17,552	18,135	19,056
Native American	7,696	8,024	9,276	10,641	10,708	10,298	12,055	11,275	11,712	11,851	14,698	13,809	13,995	16,797	17,127
Asian	5,579	6,565	6,319	6,458	6,740	6,864	8,369	8,201	8,309	8,012	10,065	11,638	11,546	12,450	13,223
Other/unknown	8,885	9,637	3,642	9,391	9,287	4,048	11,241	4,956	4,340	10,354	8,835	13,414	11,335	17,297	19,803
†Hispanic						11,366	11,093	10,964	10,832	11,444	13,096	13,878	14,902	15,947	16,936
†Non-Hispanic						11,632	12,198	11,860	11,572	12,604	13,966	14,991	16,119	16,918	17,506
Diabetes	13,759	14,341	14,831	16,634	17,270	18,091	18,533	17,450	16,531	18,168	20,027	21,403	22,244	23,284	23,830
Hypertension	8,090	9,151	9,122	9,547	10,069	10,451	11,025	10,943	10,733	11,601	13,674	14,397	15,697	16,280	16,939
Glomerulonephritis	6,426	6,666	6,590	7,512	7,832	8,338	8,922	8,685	8,651	9,381	10,216	11,049	12,119	13,015	13,712
Other cause	7,410	7,435	7,756	8,157	8,716	9,128	9,231	9,639	9,550	10,121	11,190	12,008	13,421	14,259	14,882
Unknown cause	7,279	7,717	8,053	8,906	8,313	9,270	9,574	9,403	9,830	9,717	11,323	11,879	11,571	13,388	13,883
All	8,553	8,998	9,220	10,224	10,718	11,307	11,777	11,532	11,276	12,191	13,621	14,574	15,723	16,642	17,273

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.



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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	2005
0-4	67,902	58,071	91,371	65,344	.	59,837	.	146,176	82,778	.	80,221	71,423	38,588	141,202	165,236
5-9	48,684	32,795	35,947	67,025	66,306	156,709	97,786	55,712	86,674	80,976	.	51,408	26,712	27,314	102,703
10-14	43,091	59,264	50,154	51,889	49,093	45,235	64,234	48,846	46,415	40,351	56,986	52,367	60,758	53,587	72,772
15-19	40,307	41,588	39,856	51,613	48,569	52,861	57,136	46,758	53,535	60,664	52,301	65,110	64,723	70,953	81,658
20-29	47,322	43,044	47,125	47,735	46,056	57,260	48,758	51,095	51,995	54,694	54,221	61,947	57,476	60,492	75,386
30-39	45,870	52,197	47,278	50,849	52,727	52,924	56,729	54,993	57,180	54,709	58,342	66,800	64,704	70,373	72,270
40-49	47,449	51,031	51,037	51,520	54,580	56,065	60,259	58,620	59,605	59,289	65,946	65,457	66,880	72,001	71,557
50-59	50,329	50,392	50,618	60,461	55,383	64,315	63,908	64,522	65,827	66,961	70,970	76,436	69,834	78,217	83,710
60-64	52,584	52,411	56,231	59,149	62,058	70,319	73,227	71,973	71,070	71,833	79,147	74,022	89,552	90,368	94,179
65-69	51,564	63,909	51,633	60,161	69,285	70,338	69,031	79,957	72,537	59,062	80,064	87,558	96,595	91,009	83,299
70-79	67,330	49,287	57,865	69,651	62,351	98,748	81,253	56,423	61,479	66,574	93,299	84,385	86,896	96,683	99,880
80+	43,001	45,125	69,934	61,296	22,440	.	.	38,299	52,007	60,836	175,320	126,020	70,941	91,944	87,710
0-19	42,297	45,383	44,354	52,992	48,794	55,929	62,111	50,640	56,493	58,157	53,576	62,077	61,275	67,349	82,027
20-44	46,469	49,409	48,100	49,329	51,397	54,666	54,804	55,746	56,274	55,707	57,768	65,466	62,815	66,584	73,889
45-64	50,028	50,631	51,651	58,414	56,339	62,685	65,922	62,461	64,921	65,987	72,541	72,710	73,744	80,311	80,711
65-74	56,366	58,856	53,002	63,588	66,936	78,014	74,239	73,740	68,072	61,297	85,695	87,299	93,519	91,692	89,368
75+	36,792	54,849	68,856	56,694	52,035	84,110	69,396	55,976	71,009	67,503	94,109	84,793	86,692	103,475	99,462
Male	45,624	49,095	48,223	51,631	51,886	55,918	56,242	57,388	60,524	58,771	66,370	66,914	68,499	73,379	76,118
Female	50,359	51,313	51,221	55,561	56,693	63,553	66,175	62,210	60,629	63,573	67,023	75,326	75,506	81,823	84,730
White	48,508	52,162	49,723	55,628	55,405	59,589	59,456	59,841	61,107	59,480	66,225	71,173	71,157	75,782	79,706
African American	45,563	46,451	49,438	49,758	51,877	58,964	62,213	57,728	60,049	63,237	67,356	70,967	72,444	79,143	79,993
Native American	52,265	47,176	39,262	52,045	54,182	48,817	64,061	52,341	44,132	57,048	57,948	76,780	76,536	74,913	82,775
Asian	44,450	43,268	45,825	44,378	34,784	51,692	53,881	69,734	63,665	58,580	69,930	52,974	58,509	63,588	71,893
Other/unknown	.	.	.	.	113,333	.	24,838	187,862	12,635	73,576	.	77,384	.	42,947	95,488
†Hispanic	.	.	.	.	.	55,923	57,195	56,591	59,590	57,232	62,403	67,606	73,503	69,849	78,970
†Non-Hispanic	.	.	.	.	.	59,081	60,316	59,416	60,388	60,873	67,053	70,618	70,836	77,563	79,799
Diabetes	62,007	64,491	63,539	65,819	68,062	70,702	75,872	72,076	76,838	74,857	80,674	87,291	88,496	94,895	93,056
Hypertension	43,396	45,202	48,994	53,102	48,550	55,478	60,663	57,972	59,160	57,777	63,475	68,577	71,982	74,211	74,965
Glomerulonephritis	43,752	45,571	45,401	46,743	50,749	52,619	52,257	52,772	52,631	53,483	59,294	61,690	60,805	67,655	70,076
Other cause	45,521	49,504	45,396	51,854	51,488	61,329	58,595	55,800	57,980	60,895	66,044	66,818	66,842	71,262	81,261
Unknown cause	49,377	50,177	49,955	54,194	52,620	55,346	53,370	80,078	58,620	53,370	69,648	69,375	68,876	68,341	80,611
All	47,491	50,002	49,411	53,210	53,770	59,016	60,284	59,351	60,567	60,750	66,638	70,585	71,263	76,608	79,704

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.

Table K.13

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

	2001	2002	2003	2004	2005
All	9,478	9,998	10,694	11,405	12,385
Nephrology	2,051	2,173	2,265	2,441	2,606
Pediatric medicine	823	918	1,160	1,324	1,704
Medical supply company	827	837	719	703	706
Laboratory	617	806	894	920	979
Ambulance service supplier	936	1,116	1,321	1,534	1,861
Internal medicine	731	778	825	910	954
General surgery	444	429	438	427	432
Radiology (diagnostic and therapeutic)	494	526	596	615	708
Cardiology	334	351	401	430	455
Anesthesiology	242	227	233	238	238
Multispecialty clinic/group practice	371	130	6	9	8
Pharmacy	673	738	868	891	990
Ophthalmology	143	146	157	164	172
Vascular surgery	151	164	181	190	213
Thoracic surgery	77	70	68	66	63
General and family practice	144	167	210	243	278
Emergency medicine	154	174	203	227	261
Gastroenterology	95	94	99	104	107
Urology	74	74	78	75	70
Pulmonary disease	100	111	127	139	149
Orthopedic surgery	82	85	90	92	94
Neurology	76	80	88	95	96
Hematology/oncology	79	99	123	143	144
Infectious disease	77	84	95	107	114
Pathology	48	51	54	57	59
Therapeutic services	69	71	80	91	99
Podiatry	63	68	77	83	90
Cardiac surgery	27	30	33	37	39
Dermatology	41	46	50	52	55
Ambulatory surgery center	38	45	52	56	59
Psychiatry (includes neuropsychiatry)	24	24	25	25	25
Obstetrics/gynecology	23	26	30	35	38
Endocrinology	28	30	33	37	39
Plastic and reconstructive surgery	20	19	20	18	18
Otolaryngology	20	21	22	24	24
Geriatric medicine	16	19	22	23	22
Neurosurgery	15	14	16	17	19
Peripheral vascular disease	9	9	8	8	8
Rheumatology	9	9	10	10	11
Optometry	10	11	12	13	15
Home health agency	1	3	2	1	1
Hospital	2	1	4	2	1
Nuclear medicine	5	5	6	7	8
Chiropractic	5	5	6	6	7
Colorectal surgery	3	3	3	3	4
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	1	1	1	1	1
Intermediate care nursing facility	0	0	0	0	0
Other medical care/supplies	26	26	33	38	45
Unknown	8	12	18	9	9
Patients	329,107	346,774	361,549	372,409	380,055
Total years at risk	261,908	276,539	288,823	298,514	306,782
Fertile female patients (age >13)	151,743	159,048	164,944	168,486	171,291
Fertile female years at risk	120,136	126,118	131,107	134,818	137,750
Pediatric patients (age <20)	4,839	4,959	4,972	4,681	4,644
Pediatric years at risk	4,205	4,284	4,288	4,010	4,030
Geriatric patients (age >64)	131,178	139,269	144,894	148,985	151,456
Geriatric years at risk	93,739	100,023	104,626	108,038	110,207

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.

on our website & CD
 Medicare payments (\$) per person per year (Model 1; K.a-e). Medicare payments (\$) per person per year, by claim type & state (Model 1; K.e.1-53).



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