



SECTION *H* _____

Economic costs of

end-stage renal disease



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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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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	1995	2000	2004	2005	2006
0-4	7,896,832	10,802,694	7,638,054	13,114,076	16,352,631	15,408,285
5-9	10,525,103	9,350,824	9,510,454	10,316,618	11,546,326	12,260,085
10-14	17,123,524	19,757,268	16,646,421	24,161,285	28,665,467	26,563,398
15-19	41,303,800	47,149,555	47,061,118	58,137,408	64,690,101	69,696,325
20-29	268,590,377	335,366,553	354,205,165	424,880,045	450,860,886	474,332,357
30-39	554,317,215	811,777,033	894,713,678	1,148,014,505	1,216,732,967	1,245,807,949
40-49	708,557,322	1,175,171,804	1,594,015,637	2,271,636,822	2,438,833,516	2,487,416,911
50-59	876,740,380	1,464,556,082	2,178,523,759	3,412,179,468	3,732,413,917	3,967,727,634
60-64	615,184,044	924,446,266	1,271,252,899	1,971,228,667	2,128,523,652	2,208,516,725
65-69	831,964,510	1,321,838,387	1,669,275,142	2,471,620,003	2,647,458,241	2,702,396,362
70-79	1,192,231,528	2,134,677,415	3,128,134,715	4,416,993,887	4,682,279,130	4,729,677,641
80+	331,225,930	670,449,805	1,166,258,928	2,047,542,655	2,286,263,540	2,404,452,886
Unknown	681,794	633,270	609,103	1,031,996	135,221	1,067,331
0-19	76,849,259	87,060,341	80,856,047	105,729,387	121,254,525	123,928,092
20-44	1,173,670,136	1,694,978,636	1,957,333,400	2,538,460,468	2,724,983,255	2,794,993,779
45-64	1,849,719,202	3,016,339,102	4,335,377,736	6,689,479,039	7,242,381,684	7,588,807,796
65-74	1,533,972,633	2,576,974,007	3,373,239,974	4,813,365,142	5,132,093,552	5,206,517,926
75+	821,449,335	1,549,991,601	2,590,428,811	4,122,791,403	4,483,907,359	4,630,008,962
Unknown	681,794	633,270	609,103	1,031,996	135,221	1,067,331
Male	2,755,113,688	4,487,605,088	6,286,890,353	9,528,372,017	10,402,092,371	10,785,367,275
Female	2,701,222,083	4,438,371,870	6,050,941,055	8,742,469,803	9,302,576,797	9,559,948,867
Unknown	6,587		13,663	15,614	86,426	7,746
White	3,393,318,958	5,287,016,512	7,042,887,470	10,432,391,225	11,263,687,794	11,584,118,491
African American	1,895,756,729	3,288,127,657	4,659,507,349	6,845,005,848	7,352,851,568	7,649,211,818
Native American	59,098,417	112,637,510	171,413,740	245,605,988	261,217,797	265,396,063
Asian	105,272,995	220,903,152	369,998,323	583,049,709	642,192,008	682,392,344
Other/unknown	2,895,260	17,292,126	94,038,189	164,804,665	184,806,428	164,205,172
†Hispanic			1,412,137,175	2,322,655,268	2,549,862,380	2,678,255,067
†Non-Hispanic			10,184,272,741	15,613,433,696	16,826,127,978	17,377,323,252
Unknown			741,435,155	334,768,470	328,765,237	289,745,569
Diabetes	1,750,006,163	3,357,523,215	5,265,762,289	8,196,597,442	8,919,156,999	9,266,116,540
Hypertension	1,622,096,447	2,659,164,839	3,372,538,717	4,956,699,867	5,319,468,000	5,464,723,589
Glomerulonephritis	886,963,955	1,273,786,113	1,530,255,531	1,989,855,310	2,082,652,085	2,098,407,913
Other cause	927,231,764	1,331,744,660	1,748,665,636	2,489,919,971	2,683,223,955	2,774,968,792
Unknown	270,044,030	303,758,130	420,622,899	637,784,845	700,254,557	741,107,055
All	5,456,342,359	8,925,976,957	12,337,845,071	18,270,857,434	19,704,755,595	20,345,323,888

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 & top ten DRG codes*period prevalent ESRD patients with at least one Medicare claim*

	1991	1995	2000	2004	2005	2006
Patients	196,850	267,538	344,722	420,497	434,797	437,334
Patient years at risk	163,216	223,747	287,737	352,904	365,030	371,488
Total Medicare	5,456,342,359	8,925,976,957	12,337,845,071	18,270,857,434	19,704,755,595	20,345,323,888
Total inpatient (\$)	2,245,690,987	3,481,978,921	4,754,400,985	6,566,901,843	7,095,838,178	7,045,895,137
Medical DRG	687,550,372	1,287,912,298	2,013,440,373	2,997,746,228	3,352,667,423	3,442,330,305
Surgical DRG	1,219,035,645	1,847,223,146	2,380,263,128	3,162,219,147	3,341,854,641	3,248,812,262
Other DRG	23,502,570	23,554,427	29,559,092	31,615,771	36,511,560	31,233,887
Transplant DRG	124,914,288	188,826,913	184,461,784	237,589,653	252,146,959	261,744,337
Non-tx pass-throughs	179,554,647	125,564,059	141,141,636	132,182,341	108,111,707	59,186,780
Tx pass-throughs	11,133,464	8,898,078	5,534,973	5,548,703	4,545,888	2,587,566
Total outpatient (\$)	1,894,594,486	3,194,244,017	4,697,963,503	7,050,270,946	7,391,656,410	7,830,376,418
Outpatient HD	1,225,592,755	1,768,534,951	2,462,849,473	3,201,034,373	3,457,299,187	3,658,947,089
Outpatient PD	156,778,673	242,985,363	149,665,909	233,904,666	260,087,741	295,020,444
Outpatient other dial.	454,062	244,826	683,075	1,862,862	2,433,414	2,473,302
Outpatient ESA	245,713,496	567,260,192	1,082,607,561	1,827,514,237	1,868,463,154	1,878,557,127
Outpatient vitamin D	341	92,291,743	253,857,508	432,046,710	381,660,943	415,794,880
Outpatient iron	215,234	50,658,167	149,900,559	280,558,329	232,313,459	244,001,728
Outpatient oth. inject.	1,466,441	19,251,959	80,494,947	81,738,482	82,283,737	90,946,597
Radiology	30,238,165	55,951,736	72,155,756	159,173,488	169,319,581	198,789,381
Pharmacy	55,050,089	60,774,916	60,416,350	59,430,475	59,878,986	56,435,948
Ambulance	2,373,666	4,663,578	7,058,454	17,753,957	20,321,028	20,207,096
Laboratory/pathology	67,938,074	101,137,045	104,660,245	153,595,178	165,204,330	170,845,507
Outpatient other	108,773,489	230,489,542	273,613,668	601,658,188	692,390,849	798,357,320
Skilled nursing facility	32,521,033	160,546,162	290,925,286	552,339,204	620,081,234	670,498,244
Home health agency	63,455,598	287,304,139	229,598,333	371,442,559	426,962,098	435,265,594
Hospice	2,073,714	8,505,078	19,709,043	56,869,748	68,348,783	70,559,149
Total physician/supplier (\$)	1,218,006,541	1,793,398,640	2,345,247,921	3,673,033,135	4,101,868,891	4,292,729,346
Transplant surgery	18,591,187	20,259,012	17,647,561	20,344,406	21,738,944	21,927,783
Inpatient surgery	106,285,215	130,000,009	128,721,498	154,257,136	159,729,766	154,681,047
Outpatient surgery	42,169,208	79,407,136	99,154,519	149,539,918	190,212,128	209,751,547
~E&M neph. inpatient	53,389	65,977,548	87,191,072	123,630,480	131,573,036	129,451,242
~E&M neph. outpatient	6,117,069	10,954,275	13,556,810	21,130,402	22,280,505	22,168,796
~E&M non-neph. inpatient	463,926	145,662,207	241,469,525	395,093,089	437,313,646	442,945,498
~E&M non-neph. outpatient	16,077,152	63,195,681	115,208,392	190,003,836	205,453,267	211,989,055
Dialysis capitation	139,506,580	251,665,183	430,139,045	592,084,562	624,797,210	635,986,641
Inpatient dialysis	107,628,213	115,210,080	93,966,495	100,213,042	101,590,974	97,613,317
Home dialysis	111,865,947	123,445,796	135,675,004	52,558,466	46,577,274	26,765,064
Vascular access	92,525,665	142,220,523	172,932,303	232,931,426	279,041,582	303,608,834
Peritoneal access	3,365,043	4,969,646	3,592,822	3,562,225	3,580,593	3,419,475
Physician/supplier ESA	1,073,020	1,594,138	4,807,673	20,902,097	19,517,838	11,877,687
Physician/supplier iron	10,833	87,249	43,522	163,115	141,057	172,616
Immunosuppressive drugs	2,528,024	23,366,293	75,257,733	207,867,812	234,488,701	262,085,929
Durable medical equipment	69,679,679	68,597,675	82,159,729	132,276,965	136,807,123	141,135,260
Physician/supplier radiology	40,644,795	47,449,597	69,815,317	131,811,821	146,634,149	158,973,575
Physician/supplier lab/path.	105,455,800	192,937,772	182,886,255	316,673,920	345,862,145	365,588,876
Physician/supplier ambulance	43,163,663	179,414,793	208,313,068	443,754,224	560,294,303	680,725,878
Other physician/supplier	310,802,133	126,984,029	182,709,578	384,234,190	434,234,650	411,861,223

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 & top ten DRG codes
period prevalent ESRD patients with at least one Medicare claim

	1991	1995	2000	2001	2002	2003	2004	2005	2006
Top ten DRGs (rank order): ESRD									
144	48,309,420	84,728,610	184,507,201	220,352,133	243,251,882	249,629,309	278,766,253	312,521,894	328,622,702
316	65,751,671	126,126,806	198,994,506	225,727,772	242,679,483	243,331,197	262,748,013	286,580,738	288,236,593
127	62,578,669	115,724,204	155,012,380	176,757,601	194,906,299	214,814,738	242,045,386	255,220,825	252,652,096
120	201,195,206	239,132,762	229,223,859	245,868,499	277,970,318	261,457,220	272,680,136	262,139,371	245,251,404
302	132,174,891	194,088,385	188,292,230	202,340,792	199,797,111	201,238,071	220,196,914	230,901,142	243,061,155
553								61,377,088	236,643,463
416	40,704,809	80,228,184	124,434,429	140,022,906	166,263,452	177,920,900	209,729,362	258,231,193	215,331,506
554								55,365,296	212,987,853
541							53,814,455	249,963,805	211,332,888
462	19,460,353	49,613,705	105,442,736	112,007,759	137,701,544	157,375,293	161,814,664	168,037,106	189,226,900
Top ten DRGs (rank order): All dialysis									
144	46,946,542	82,375,947	180,112,365	215,386,587	237,805,274	244,071,057	272,553,351	305,222,975	320,948,444
316	62,042,828	119,484,347	188,564,798	214,093,036	229,450,376	230,020,320	247,940,389	268,376,859	268,051,209
120	197,472,999	234,982,359	225,327,181	241,214,250	272,593,024	256,577,656	267,034,675	257,783,261	240,902,014
127	59,875,095	109,795,406	146,800,641	167,527,975	185,254,785	203,720,780	230,445,951	242,261,021	239,871,473
553								60,189,623	231,938,618
554								53,326,245	204,712,861
416	36,767,231	71,174,896	113,314,528	127,345,546	150,512,525	161,179,142	189,127,453	233,468,696	195,143,236
541							46,827,071	212,614,030	177,818,668
462	17,191,977	44,832,587	96,333,359	102,607,883	125,103,674	142,189,617	146,555,032	151,413,873	171,125,709
315	133,995,260	140,003,429	137,505,784	146,486,609	156,389,594	168,783,545	162,388,315	157,930,412	160,486,144
Top ten DRGs (rank order): Hemodialysis									
144	35,756,185	71,368,675	170,968,552	205,343,566	227,799,114	234,004,809	261,621,323	293,934,573	309,206,797
316	49,685,298	99,021,215	167,409,537	190,424,533	206,324,264	207,855,750	223,617,506	243,615,600	243,931,375
120	172,725,404	218,485,423	215,291,256	231,628,348	261,400,067	247,610,103	257,487,808	248,411,645	232,896,631
127	52,079,033	97,677,937	137,245,237	157,398,356	175,454,914	193,551,821	218,710,891	230,924,943	229,148,816
553								58,917,428	226,415,923
554								52,046,747	199,010,405
416	33,277,557	64,395,811	105,751,646	118,977,931	140,748,576	151,024,249	176,641,987	218,806,896	182,723,616
541							44,214,632	194,745,454	162,378,078
462	14,656,827	36,920,279	86,730,445	92,838,011	114,555,369	129,708,205	134,014,442	139,178,799	157,132,252
315	99,940,902	110,104,420	120,136,745	130,172,836	139,744,002	151,046,240	145,511,083	143,024,925	144,503,410
Top ten DRGs (rank order): All Diabetic									
144	14,960,069	30,089,254	76,331,368	93,666,883	104,516,305	109,431,627	122,357,438	136,522,004	145,035,248
553								30,777,135	120,286,136
120	67,676,075	90,363,838	103,925,348	113,676,249	130,058,778	121,254,266	126,609,192	122,675,084	114,480,268
127	20,891,558	43,425,535	66,999,141	78,015,373	85,383,345	95,848,773	106,468,916	115,291,429	114,451,245
316	16,746,605	37,036,935	69,051,425	79,558,265	85,985,444	87,659,058	97,887,975	107,337,001	108,996,186
554								27,033,132	107,137,254
113	29,601,772	70,394,329	99,282,915	107,540,176	107,050,976	108,525,260	109,914,864	110,091,061	104,303,703
462	9,534,166	26,486,242	57,282,875	60,668,592	74,458,154	85,955,060	87,161,557	92,378,774	104,171,073
416	13,832,587	32,376,991	58,850,950	66,714,004	77,324,727	85,843,093	100,930,916	122,505,896	103,718,174
415	18,225,677	41,188,931	59,913,652	68,444,129	75,937,181	77,178,426	95,619,724	114,101,251	86,886,653
Top ten DRGs (rank order): All non - diabetic									
144	33,349,351	54,639,355	108,175,834	126,685,250	138,735,577	140,197,681	156,408,815	175,999,890	183,587,455
302	101,040,493	141,693,715	133,412,740	144,923,747	149,377,456	149,180,448	161,171,158	168,896,415	181,218,727
316	49,005,066	89,089,870	129,943,082	146,169,506	156,694,039	155,672,139	164,860,038	179,243,736	179,240,408
127	41,687,111	72,298,669	88,013,238	98,742,228	109,522,954	118,965,965	135,576,470	139,929,396	138,200,851
120	133,519,131	148,768,924	125,298,511	132,192,250	147,911,539	140,202,953	146,070,944	139,464,287	130,771,135
541								32,533,624	145,682,963
553								30,599,953	116,357,326
416	26,872,222	47,851,193	65,583,479	73,308,902	88,938,725	92,077,807	108,798,446	135,725,296	111,613,332
554								28,332,164	105,850,600
315	96,933,880	96,820,584	88,061,612	92,032,493	101,194,611	107,180,830	101,354,401	97,192,508	102,573,593

DRG Key: 113, Surgical, amputation for circulatory system disorders except upper-limb and toe; 120, Surgical, other circulatory system O.R. procedures; 127, Medical, Heart failure & shock; 144, Medical, other circulatory system diagnoses with complicating conditions; 302, Surgical, kidney transplant; 315, Surgical, other kidney and urinary tract O.R. procedures; 316, Medical, renal failure; 415, Surgical, O.R. procedures for infectious and parasitic diseases; 416, Medical, septicemia age >17; 462, Medical, rehabilitation; 541, Surgical, ECMO or tracheostomy with mechanical ventilation for 96+ hours, or principal diagnosis except face, mouth, & neck with major O.R. procedure; 553, Surgical, other vascular procedures with complicating conditions with major cardiovascular diagnosis; 554, Surgical, other vascular procedures with complicating conditions without major cardiovascular diagnosis. DRGs are ranked in order of total Medicare payments for calendar year 2006.



Table K.3

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

period prevalent patients, as-treated model

	1997-2001			2002-2006		
	All	Medicare primary payor	Medicare secondary payor	All	Medicare primary payor	Medicare secondary payor
Patients	775,152	676,892	98,260	926,319	806,931	119,388
Patient years at risk	1,365,402	1,232,954	132,447	1,703,644	1,530,933	172,710
Total Medicare	57,795,076,559	57,169,803,779	625,272,780	87,738,348,731	86,799,570,121	938,778,610
Total inpatient (\$)	22,270,881,264	21,898,545,589	372,335,674	31,518,349,863	31,021,081,864	497,267,999
Medical DRG	9,313,469,408	9,170,520,288	142,949,120	14,528,625,344	14,311,759,404	216,865,940
Surgical DRG	11,208,501,513	11,045,039,308	163,462,205	15,060,464,694	14,838,080,722	222,383,972
Other DRG	141,473,740	139,306,906	2,166,834	153,311,446	151,090,452	2,220,994
Transplant DRG	913,271,812	863,440,603	49,831,209	1,158,306,742	1,115,206,004	43,100,739
Non-tx pass-throughs	663,044,818	650,805,212	12,239,606	592,813,313	581,047,509	11,765,804
Tx pass-throughs	31,119,972	29,433,272	1,686,701	24,828,325	23,897,774	930,551
Total outpatient (\$)	21,820,352,487	21,769,426,568	50,925,919	33,749,098,916	33,660,310,306	88,788,610
Outpatient HD	11,571,457,881	11,566,304,990	5,152,891	16,785,422,344	16,774,373,552	11,048,793
Outpatient PD	841,790,004	840,600,709	1,189,295	1,199,406,940	1,198,047,983	1,358,957
Outpatient other dial.	2,908,979	2,898,501	10,479	9,791,628	9,769,020	22,608
Outpatient ESA	4,793,177,081	4,790,610,170	2,566,911	7,805,031,107	7,798,611,133	6,419,974
Outpatient vitamin D	966,513,951	966,193,070	320,881	1,845,188,169	1,843,844,593	1,343,576
Outpatient iron	714,392,189	714,097,687	294,503	1,194,512,611	1,193,655,756	856,854
Outpatient oth. inject.	295,615,858	294,055,261	1,560,597	360,430,770	355,421,048	5,009,723
Radiology	366,371,441	361,349,108	5,022,334	694,187,292	686,492,220	7,695,072
Pharmacy	348,057,156	344,254,616	3,802,541	166,126,417	164,191,435	1,934,982
Ambulance	33,199,562	32,833,422	366,140	83,473,586	82,466,091	1,007,495
Laboratory/pathology	493,905,189	481,123,177	12,782,012	579,246,358	564,065,540	15,180,818
Outpatient other	1,392,963,195	1,375,105,860	17,857,336	3,026,281,695	2,989,371,936	36,909,758
Skilled nursing facility	1,456,536,596	1,443,364,420	13,172,176	2,620,423,484	2,592,132,961	28,290,522
Home health agency	1,162,356,549	1,150,117,553	12,238,996	1,760,926,822	1,742,786,111	18,140,712
Hospice	69,236,236	67,746,219	1,490,018	226,404,989	223,174,003	3,230,986
Total physician/supplier (\$)	11,015,713,427	10,840,603,430	175,109,997	17,863,144,656	17,560,084,876	303,059,780
Transplant surgery	90,472,601	84,371,038	6,101,563	100,990,451	96,156,015	4,834,435
Inpatient surgery	620,956,591	608,967,850	11,988,741	737,637,187	722,784,894	14,852,293
Outpatient surgery	460,630,231	448,625,987	12,004,244	777,235,071	758,547,351	18,687,721
~E&M neph. inpatient	406,535,873	400,265,873	6,270,000	583,367,595	573,855,480	9,512,114
~E&M neph. outpatient	60,036,808	56,042,606	3,994,202	96,304,682	89,833,402	6,471,280
~E&M non-neph. inpatient	1,091,332,791	1,074,515,625	16,817,167	1,866,834,168	1,837,826,904	29,007,264
~E&M non-neph. outpatient	494,857,266	481,734,361	13,122,905	887,519,063	864,528,228	22,990,835
Dialysis capitation	1,957,582,564	1,942,386,978	15,195,586	2,842,377,094	2,820,043,670	22,333,424
Inpatient dialysis	493,210,489	489,280,450	3,930,039	485,108,025	480,363,631	4,744,393
Home dialysis	661,801,941	660,281,404	1,520,537	285,724,396	284,414,382	1,310,014
Vascular access	827,169,652	818,326,832	8,842,820	1,212,537,562	1,199,283,274	13,254,288
Peritoneal access	19,294,850	18,746,760	548,090	17,216,099	16,729,572	486,527
Physician/supplier ESA	15,734,028	14,943,723	790,305	61,304,999	58,242,279	3,062,720
Physician/supplier iron	281,204	268,287	12,917	590,450	555,345	35,105
Immunosuppressive drugs	319,179,126	295,752,454	23,426,673	1,034,229,695	970,177,201	64,052,494
Durable medical equipment	426,388,792	418,011,218	8,377,574	632,584,432	625,556,276	7,028,156
Physician/supplier radiology	312,514,108	305,491,290	7,022,818	625,111,108	612,273,171	12,837,937
Physician/supplier lab/path.	910,505,664	901,162,157	9,343,507	1,543,350,687	1,529,676,745	13,673,942
Physician/supplier ambulance	1,016,805,519	1,009,676,649	7,128,871	2,313,672,446	2,295,771,419	17,901,028
Other physician/supplier	830,423,329	811,751,890	18,671,439	1,759,449,446	1,723,465,636	35,983,809

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

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	32,955	40,903	43,341	42,048	38,498	41,347	38,373	39,252	44,991	49,907	55,275	65,995	58,605
5-9	26,081	23,530	26,156	26,417	25,474	21,384	22,483	25,914	26,075	30,049	30,893	35,878	44,248
10-14	24,572	26,197	25,233	25,804	25,074	21,523	21,800	23,556	27,390	31,637	35,777	43,298	41,625
15-19	26,085	29,923	28,363	27,332	28,995	27,455	28,808	31,605	34,397	35,895	39,101	42,846	45,420
20-29	28,013	31,976	33,101	32,627	32,614	33,464	33,752	36,082	38,138	39,828	42,730	45,110	48,153
30-39	28,501	33,831	34,887	34,896	34,239	34,889	35,921	38,283	40,231	41,330	44,132	46,875	48,691
40-49	30,406	36,053	37,889	37,853	37,335	38,000	39,261	41,919	44,171	45,499	48,947	51,344	52,294
50-59	33,372	40,460	43,060	43,375	42,496	42,802	44,208	46,958	49,067	50,550	53,618	55,471	56,622
60-64	36,884	44,092	46,662	46,766	46,536	46,630	47,843	51,045	53,569	55,244	58,033	59,724	60,377
65-69	43,075	49,766	52,673	53,383	52,536	51,822	53,172	55,834	58,656	60,313	62,715	64,390	64,360
70-79	45,888	53,196	56,651	57,688	56,449	56,082	57,952	61,241	63,354	64,786	67,442	69,864	70,682
80+	47,221	55,274	58,917	60,517	58,828	58,329	59,684	63,388	65,915	68,157	70,279	74,374	76,626
0-19	26,243	29,112	28,536	27,963	28,170	25,882	26,733	29,243	32,293	35,167	38,749	44,197	45,714
20-44	28,737	33,923	35,186	35,124	34,665	35,265	36,114	38,676	40,886	42,093	45,046	47,990	49,678
45-64	33,976	40,611	43,049	43,194	42,598	42,994	44,401	47,203	49,406	50,971	54,113	55,885	56,891
65-74	44,104	51,036	54,092	55,033	54,004	53,427	55,115	57,951	60,252	61,793	64,100	66,114	66,280
75+	46,859	54,715	58,443	59,574	58,147	57,768	59,262	62,925	65,447	67,261	69,939	73,204	75,006
Male	34,292	40,718	43,052	43,570	43,259	43,533	44,875	47,872	50,278	52,083	54,981	57,639	58,745
Female	38,496	46,244	49,040	49,617	48,872	48,996	50,595	53,857	56,444	57,941	60,977	63,036	64,133
White	35,526	41,997	44,320	45,004	44,504	44,313	45,735	48,743	51,080	52,780	55,599	58,006	59,011
African American	38,073	46,111	48,963	49,234	48,614	49,372	50,887	54,391	57,071	58,920	62,141	64,674	66,069
Native American	34,219	41,046	43,684	43,450	42,846	44,299	44,474	46,639	50,168	50,710	53,237	54,228	54,811
Asian	30,816	37,049	39,903	40,790	40,535	41,205	42,723	44,871	47,656	47,613	49,957	51,565	52,142
Other/unknown	35,701	52,808	54,423	52,007	52,713	52,691	56,570	57,557	59,020	58,748	61,898	62,210	60,404
†Hispanic			45,581	46,204	45,979	45,746	47,098	49,867	52,591	54,225	56,890	59,126	60,406
†Non-Hispanic			44,724	45,795	45,675	46,146	47,853	51,208	53,716	55,426	58,310	60,680	61,735
Diabetes	42,219	50,671	54,194	54,742	53,879	53,486	55,319	58,880	61,353	62,993	66,308	68,996	70,210
Hypertension	38,359	44,584	46,693	47,187	46,370	47,022	48,185	51,436	53,934	55,688	58,173	60,498	61,630
Glomerulonephritis	29,577	34,305	35,595	35,533	35,205	35,363	36,014	37,926	39,784	40,869	43,049	44,344	45,011
Other cause	32,064	37,578	39,608	39,984	39,528	39,783	41,162	43,734	45,967	47,664	50,129	52,212	52,926
Unknown cause	34,335	39,099	41,410	41,755	41,620	41,624	43,008	44,607	47,278	47,222	51,771	54,523	55,658
All	36,261	43,302	45,846	46,384	45,868	46,072	47,519	50,629	53,104	54,758	57,704	60,074	61,164

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 Two) 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 patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis*

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	41,806	61,003	56,119	59,626	51,753	54,612	54,818	55,848	58,877	65,390	80,329	87,131	77,464
5-9	43,375	39,148	48,200	53,037	51,539	45,426	49,548	50,041	47,844	48,281	52,162	57,525	74,265
10-14	37,347	43,508	44,044	42,777	44,166	39,091	41,155	42,947	45,067	49,155	48,298	55,563	60,731
15-19	35,752	42,088	41,502	39,708	42,718	39,929	43,654	46,334	50,372	49,052	50,021	57,105	59,224
20-29	36,109	41,344	43,744	42,521	42,501	43,964	44,485	46,603	48,842	51,079	53,681	56,198	59,776
30-39	36,747	44,190	46,312	46,466	45,784	47,032	48,082	50,714	52,769	54,199	56,457	59,947	62,441
40-49	36,843	44,685	47,218	47,017	46,927	48,307	49,895	52,835	55,577	57,441	60,701	63,494	64,913
50-59	38,272	46,871	50,377	50,771	50,307	51,450	52,954	56,207	58,652	60,611	63,657	66,016	67,529
60-64	40,054	48,783	52,070	52,419	52,646	53,378	54,783	58,660	61,859	63,584	67,098	69,046	70,004
65-69	44,912	53,295	56,893	57,999	57,269	56,933	58,666	61,954	65,351	67,795	70,767	73,273	74,191
70-79	46,437	54,333	58,098	59,280	58,159	58,012	60,175	63,747	66,295	68,238	71,509	74,553	76,331
80+	47,313	55,383	59,053	60,686	59,015	58,572	59,973	63,735	66,338	68,684	70,822	75,070	77,508
0-19	37,338	43,907	43,995	43,063	44,345	41,141	44,415	46,649	49,623	50,293	52,349	59,226	62,369
20-44	36,565	43,814	46,032	45,749	45,450	46,649	47,727	50,510	52,960	54,615	57,211	60,672	63,128
45-64	38,644	46,988	50,266	50,539	50,345	51,480	53,010	56,323	59,013	60,928	64,198	66,385	67,662
65-74	45,459	53,658	57,259	58,500	57,603	57,381	59,459	62,855	65,726	67,982	70,945	73,785	74,966
75+	47,070	55,027	58,877	60,096	58,698	58,394	60,045	63,746	66,431	68,494	71,374	74,943	77,228
Male	39,822	47,477	50,645	51,231	50,930	51,548	53,051	56,240	58,990	61,109	64,065	67,299	68,932
Female	42,861	51,905	55,362	56,088	55,422	55,870	57,734	61,399	64,218	66,148	69,228	71,690	73,338
White	42,082	50,292	53,569	54,524	54,025	54,162	55,869	59,188	61,822	64,029	66,760	69,797	71,413
African American	40,476	49,258	52,605	52,900	52,411	53,446	55,026	58,775	61,689	63,766	67,256	70,044	71,810
Native American	37,966	45,523	48,860	48,393	47,927	49,371	49,857	52,132	56,197	56,622	59,112	59,792	60,622
Asian	35,899	43,230	46,765	47,629	47,591	48,817	50,833	52,678	55,846	56,019	58,180	60,405	61,445
Other/unknown	52,510	56,393	56,071	52,836	53,584	53,745	57,657	58,962	60,325	59,582	62,821	65,419	66,010
†Hispanic			52,357	52,815	52,725	52,845	54,300	57,287	60,492	62,405	64,950	67,566	69,308
†Non-Hispanic			52,656	53,310	52,868	53,452	55,251	58,848	61,599	63,685	66,718	69,614	71,209
Diabetes	46,117	55,249	59,364	59,814	58,921	58,690	60,457	64,178	66,656	68,550	72,050	75,058	76,746
Hypertension	41,170	48,212	50,911	51,598	50,885	51,760	53,053	56,359	59,119	61,125	63,606	66,268	67,948
Glomerulonephritis	36,442	43,233	45,385	45,199	45,254	46,127	47,270	49,747	52,384	54,042	56,353	58,438	59,787
Other cause	38,342	46,693	49,731	50,803	50,350	51,372	53,421	56,647	59,612	62,052	64,464	67,286	68,309
Unknown cause	41,588	48,148	51,067	50,857	50,801	51,039	52,889	54,990	58,465	59,389	63,821	67,464	69,405
All	41,307	49,633	52,934	53,578	53,095	53,629	55,290	58,695	61,459	63,478	66,477	69,337	70,965

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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 Two) 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 patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	47,065	82,273	69,731	81,220	58,521	89,084	84,872	95,457	78,116	65,098	91,441	130,197	101,641
5-9	43,666	49,490	58,423	63,524	58,510	58,320	51,638	61,952	59,454	64,664	66,114	71,893	93,210
10-14	40,895	45,916	48,928	45,966	53,501	43,579	45,768	51,666	53,688	55,172	51,098	58,570	61,018
15-19	36,263	44,682	43,511	41,168	45,118	41,082	45,730	48,883	53,182	51,572	53,505	59,612	62,602
20-29	36,812	42,523	45,336	44,252	43,634	45,129	45,662	48,247	50,527	52,918	55,669	57,924	61,529
30-39	37,631	45,698	47,896	47,770	46,791	48,396	49,201	52,155	54,330	55,903	58,290	61,587	64,128
40-49	37,359	45,830	48,441	48,087	48,008	49,398	50,937	53,966	56,615	58,640	62,155	65,069	66,371
50-59	38,689	47,706	51,188	51,739	50,915	52,255	53,651	57,045	59,552	61,664	64,754	67,152	68,621
60-64	40,613	49,595	52,887	53,123	53,119	53,986	55,220	59,269	62,544	64,474	68,137	69,991	70,967
65-69	45,106	53,881	57,729	58,516	57,677	57,354	59,168	62,245	65,866	68,422	71,474	74,008	74,853
70-79	46,296	54,731	58,445	59,456	58,229	58,060	60,155	63,746	66,497	68,498	71,955	74,945	76,758
80+	46,894	55,314	59,039	60,434	58,668	58,089	59,487	63,220	65,790	68,125	70,370	74,669	77,158
0-19	37,903	46,996	46,179	44,363	47,569	43,675	47,075	51,197	54,336	53,134	54,643	61,821	65,007
20-44	37,278	45,169	47,559	47,098	46,538	47,912	48,880	51,887	54,448	56,245	59,016	62,378	64,769
45-64	39,151	47,900	51,166	51,461	51,034	52,299	53,704	57,183	59,881	61,961	65,345	67,555	68,802
65-74	45,514	54,218	57,946	58,886	57,908	57,713	59,779	63,090	66,186	68,519	71,639	74,439	75,579
75+	46,795	55,119	58,920	60,033	58,491	58,074	59,714	63,401	66,153	68,248	71,230	74,832	77,179
Male	40,139	48,244	51,451	51,908	51,380	52,035	53,484	56,718	59,525	61,786	64,812	68,010	69,677
Female	43,474	53,054	56,622	57,223	56,332	56,771	58,544	62,300	65,223	67,198	70,471	72,929	74,488
White	42,817	51,577	54,962	55,659	54,895	54,977	56,593	59,975	62,694	65,042	67,841	70,873	72,446
African American	40,687	49,834	53,165	53,506	52,818	53,927	55,444	59,242	62,205	64,340	68,017	70,734	72,506
Native American	38,194	45,861	49,634	49,106	48,534	49,909	50,309	52,644	56,918	57,104	59,756	60,314	61,085
Asian	36,319	44,484	48,120	48,969	48,598	49,742	51,912	53,746	57,024	57,247	59,503	61,998	62,975
Other/unknown	47,267	57,924	58,792	54,996	55,361	55,295	58,895	60,515	61,791	60,609	64,021	66,877	67,327
†Hispanic			53,591	53,938	53,745	53,736	55,259	58,204	61,469	63,465	65,990	68,704	70,352
†Non-Hispanic			53,760	54,229	53,506	54,084	55,797	59,464	62,307	64,497	67,690	70,542	72,125
Diabetes	46,590	55,953	60,113	60,398	59,338	59,117	60,781	64,543	67,092	69,117	72,679	75,675	77,309
Hypertension	41,293	48,859	51,652	52,092	51,249	52,129	53,425	56,726	59,636	61,659	64,328	66,988	68,684
Glomerulonephritis	37,133	44,762	46,948	46,644	46,397	47,290	48,471	51,062	53,818	55,522	58,128	60,147	61,279
Other cause	38,991	47,792	50,841	52,070	51,221	52,433	54,217	57,685	60,665	63,263	65,818	68,560	69,601
Unknown cause	41,990	49,284	52,315	51,940	51,500	51,464	53,422	55,468	58,893	60,165	64,247	67,891	70,245
All	41,776	50,591	53,963	54,474	53,761	54,307	55,894	59,364	62,206	64,320	67,446	70,284	71,889

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 Two) 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 patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	37,620	53,310	51,977	53,038	51,325	46,066	41,451	47,101	53,227	65,266	72,060	77,434	70,171
5-9	42,132	36,838	44,066	47,584	46,127	34,535	47,063	41,277	40,795	39,534	45,036	50,037	61,383
10-14	34,150	40,922	40,425	40,360	38,072	34,788	34,834	32,716	36,351	43,375	45,254	53,015	59,662
15-19	33,752	37,282	38,089	37,180	38,115	37,600	37,996	40,013	42,512	41,938	39,122	48,382	48,407
20-29	32,566	37,485	38,045	35,864	37,277	38,247	38,157	38,473	39,887	41,166	43,209	45,881	48,849
30-39	32,693	38,548	40,034	40,596	40,431	39,431	41,254	41,559	42,664	42,576	43,294	47,363	49,704
40-49	33,448	39,773	41,545	41,165	40,333	40,473	41,866	43,406	45,898	46,215	46,838	47,549	50,289
50-59	34,327	42,109	45,230	44,316	45,129	43,691	45,368	46,473	48,113	48,016	49,983	51,097	52,789
60-64	33,708	42,644	45,457	45,730	46,819	44,968	47,683	48,640	49,658	49,075	50,691	52,613	52,868
65-69	36,340	45,572	46,761	49,080	48,541	46,633	47,441	51,593	52,037	52,819	53,748	54,651	56,885
70-79	37,002	43,977	47,842	49,027	48,776	47,664	49,637	51,186	50,118	51,099	51,833	54,976	56,280
80+	36,759	43,832	45,719	46,116	45,076	45,651	45,932	47,644	50,319	52,080	51,837	55,854	57,820
0-19	35,517	40,403	41,647	41,530	40,643	37,600	38,770	39,283	42,152	45,984	47,191	54,783	57,283
20-44	32,839	38,682	39,942	39,617	39,742	39,439	40,443	41,530	42,806	43,001	44,417	47,370	50,355
45-64	33,971	41,688	44,503	44,014	44,359	43,248	45,308	46,210	48,099	48,088	49,451	50,523	51,898
65-74	36,549	45,020	47,072	49,243	48,755	47,028	48,587	51,369	50,872	52,293	52,591	54,699	56,700
75+	37,105	43,485	47,512	47,555	47,219	47,142	48,036	49,909	50,699	50,992	52,272	55,519	56,787
Male	34,059	40,857	43,022	43,288	43,463	42,663	43,862	45,427	46,921	47,151	48,812	51,518	52,974
Female	35,011	42,784	45,214	45,362	45,261	44,106	45,935	47,320	48,208	49,064	49,660	51,320	53,702
White	34,422	41,788	43,881	44,732	44,477	43,534	44,780	46,320	47,463	47,804	49,538	51,719	53,789
African American	35,078	42,572	45,527	44,349	45,034	43,842	45,839	47,498	48,970	49,964	50,028	52,868	54,341
Native American	34,526	42,570	42,654	41,055	42,086	42,221	42,448	45,140	45,422	48,393	48,068	49,641	50,891
Asian	29,789	34,875	38,243	38,455	39,342	39,519	41,413	41,642	42,070	41,730	41,930	41,919	43,391
Other/unknown	74,055	38,985	38,469	38,690	39,552	37,642	44,591	40,759	44,102	44,989	43,723	43,247	49,386
†Hispanic			41,593	42,664	42,029	42,088	41,545	43,800	45,396	45,571	48,352	47,933	50,130
†Non-Hispanic			42,116	42,931	43,656	43,044	44,940	46,670	47,802	48,471	49,377	51,908	53,788
Diabetes	38,683	48,224	51,441	51,644	51,347	49,630	51,757	53,356	54,483	54,421	56,770	58,713	60,948
Hypertension	33,765	40,240	41,788	43,025	42,187	41,719	42,684	44,789	44,937	46,040	46,322	48,767	50,343
Glomerulonephritis	31,759	36,338	38,063	37,928	38,568	38,372	38,840	39,997	41,359	42,786	42,857	45,272	47,609
Other cause	32,468	39,471	41,923	40,875	41,802	40,290	42,742	43,711	45,641	45,940	46,957	49,050	50,735
Unknown cause	34,900	38,923	39,170	39,083	39,901	40,857	41,219	41,365	43,766	41,986	44,298	46,689	47,069
All	34,514	41,788	44,083	44,300	44,349	43,384	44,896	46,366	47,555	48,094	49,228	51,421	53,327

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 Two) 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 patients, as-treated model, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	25,296	23,739	31,862	29,678	30,000	31,908	26,928	26,653	33,549	38,372	35,830	51,163	45,022
5-9	17,594	16,449	17,500	16,631	17,111	14,360	13,975	16,370	16,642	20,497	19,578	24,867	28,460
10-14	15,238	15,468	14,763	16,579	15,362	13,303	13,296	14,416	17,286	21,674	27,244	34,717	29,490
15-19	16,301	19,396	17,043	16,230	16,323	16,569	16,214	19,315	20,104	23,562	26,748	28,512	31,654
20-29	16,983	18,639	18,121	18,285	17,793	17,452	17,316	19,446	20,586	20,950	23,080	25,258	27,151
30-39	15,718	17,917	17,771	17,371	16,798	16,529	17,349	18,942	20,122	20,456	22,787	23,816	23,376
40-49	16,662	18,247	18,843	19,017	17,377	16,711	17,450	19,333	20,357	20,418	22,752	24,017	23,628
50-59	16,455	19,842	20,285	20,660	19,419	17,863	19,583	20,644	21,677	21,885	23,726	24,427	24,529
60-64	16,680	19,541	20,282	20,621	19,685	18,937	20,532	21,498	21,961	24,501	24,540	25,964	26,048
65-69	17,491	19,665	19,647	20,345	20,989	19,949	21,338	22,497	24,442	24,692	26,398	27,182	26,207
70-79	14,631	18,521	18,038	19,223	19,748	19,531	21,073	24,140	24,113	24,804	25,467	26,909	25,431
80+	16,129	17,618	14,522	17,375	14,579	11,654	18,541	20,089	18,975	19,979	24,784	26,051	24,210
0-19	16,925	18,239	17,593	17,423	17,138	16,103	15,634	17,863	19,708	23,759	26,702	31,768	32,085
20-44	16,248	18,112	18,079	18,047	17,102	16,699	17,177	19,003	20,224	20,522	22,660	24,325	24,063
45-64	16,612	19,367	19,932	20,164	18,962	17,838	19,380	20,611	21,443	22,117	23,784	24,584	24,735
65-74	17,078	19,408	19,215	20,110	20,587	19,711	21,484	22,888	24,129	24,687	25,985	27,073	25,982
75+	11,519	17,408	17,206	17,883	19,279	19,394	18,641	24,908	24,659	24,210	25,743	26,776	24,810
Male	16,136	18,581	18,533	18,689	18,049	17,341	18,358	20,266	20,982	21,951	23,758	24,950	24,773
Female	16,943	19,002	19,556	19,835	18,765	17,943	19,202	20,481	22,157	22,357	24,235	25,556	25,215
White	15,595	17,751	17,982	18,039	17,273	16,474	17,502	19,023	20,158	20,815	22,717	23,753	23,510
African American	20,107	23,001	22,962	23,434	22,338	21,636	23,252	25,248	26,359	27,118	28,254	30,199	29,855
Native American	16,114	18,319	18,764	19,366	17,944	18,939	18,200	19,787	20,110	21,046	23,641	25,830	25,634
Asian	14,515	14,918	15,442	16,626	16,045	15,179	15,451	17,922	18,565	18,056	20,478	21,598	21,671
Other/unknown	12,449	15,146	11,093	17,899	17,611	14,036	23,977	14,659	18,985	35,148	49,410	35,998	33,445
†Hispanic			19,491	19,951	19,096	18,256	18,829	20,476	21,284	21,907	23,939	25,266	25,621
†Non-Hispanic			20,303	20,209	19,209	18,327	19,551	21,175	22,306	22,876	24,432	25,582	25,277
Diabetes	21,920	25,563	25,831	26,045	24,478	23,042	25,307	27,249	29,225	29,645	31,504	32,840	31,798
Hypertension	17,761	19,554	19,259	19,496	18,496	18,141	19,000	21,755	22,399	22,889	24,358	25,551	24,772
Glomerulonephritis	14,054	15,552	15,651	16,132	15,322	14,826	15,469	16,520	17,322	18,023	19,787	20,514	20,808
Other cause	14,723	16,052	16,415	15,994	15,944	15,124	15,818	17,040	17,847	18,971	20,519	22,040	22,313
Unknown cause	12,356	14,001	14,117	15,319	14,825	14,756	15,487	16,395	17,155	16,251	19,649	21,405	21,808
All	16,449	18,746	18,937	19,144	18,335	17,583	18,698	20,352	21,458	22,115	23,951	25,194	24,951

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 Two) 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 patients, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	40,043	55,741	54,047	53,052	43,443	49,420	38,319	49,360	55,638	52,659	83,843	84,669	66,839
5-9	39,778	34,118	45,320	49,729	45,643	38,491	46,488	45,346	49,051	43,069	54,164	46,536	69,642
10-14	35,863	39,602	38,062	37,654	37,135	36,171	37,835	35,902	42,730	45,736	45,568	54,610	58,573
15-19	34,630	40,013	38,654	38,627	40,656	37,116	41,010	43,614	46,818	47,248	47,569	53,056	56,841
20-29	34,916	40,070	42,493	41,674	41,330	42,599	43,261	45,290	47,581	49,684	52,659	55,067	58,216
30-39	35,630	43,359	44,820	45,972	44,883	45,871	46,876	49,646	51,875	52,862	55,745	59,090	61,088
40-49	35,935	43,686	46,224	46,539	45,973	47,054	48,515	51,776	54,908	56,340	60,206	62,962	63,722
50-59	37,411	46,218	49,463	50,454	49,594	50,371	51,744	55,344	58,122	59,786	63,073	65,248	65,887
60-64	39,159	48,303	51,166	52,050	52,155	52,456	53,907	58,046	61,749	63,063	67,211	68,951	68,965
65-69	42,493	51,528	54,933	56,263	55,694	55,442	56,640	60,457	64,540	66,474	70,144	72,913	73,137
70-79	44,044	52,644	56,126	57,367	56,549	56,468	58,121	62,351	65,550	66,867	70,887	73,980	74,611
80+	45,165	53,633	57,087	58,765	57,536	57,232	57,921	62,371	65,537	66,806	70,258	74,475	75,208
0-19	35,820	40,986	40,533	40,431	40,522	37,808	40,658	42,575	46,772	46,920	50,398	55,345	59,078
20-44	35,408	42,831	44,797	45,282	44,519	45,505	46,499	49,404	52,153	53,399	56,612	59,875	61,849
45-64	37,826	46,348	49,340	50,156	49,655	50,387	51,859	55,521	58,570	60,136	63,822	65,884	66,288
65-74	43,064	51,867	55,270	56,692	56,035	55,886	57,415	61,405	64,950	66,688	70,321	73,311	73,664
75+	44,752	53,419	56,949	58,158	57,111	56,913	58,003	62,374	65,657	66,816	70,782	74,370	75,129
Male	38,339	46,335	49,396	50,400	49,954	50,373	51,562	55,140	58,351	59,916	63,543	66,695	67,331
Female	41,740	51,089	54,183	55,317	54,543	54,878	56,477	60,650	63,980	65,441	69,198	71,674	72,425
White	40,963	49,477	52,608	53,879	53,271	53,285	54,660	58,503	61,634	63,220	66,686	69,620	70,159
African American	38,939	48,088	51,133	51,978	51,339	52,151	53,481	57,560	60,936	62,609	66,698	69,543	70,511
Native American	36,161	45,028	47,691	47,669	47,104	48,402	48,788	51,210	55,530	55,779	58,461	59,105	59,439
Asian	34,522	42,010	44,907	46,280	45,906	47,088	48,867	51,504	55,120	54,843	57,604	59,761	59,950
Other/unknown	30,549	51,603	53,598	51,043	52,092	52,244	55,763	56,732	58,845	58,321	62,666	64,879	64,280
†Hispanic			51,132	51,987	51,912	51,702	52,975	56,486	60,080	61,919	64,826	67,343	68,386
†Non-Hispanic			51,720	52,724	52,056	52,468	53,931	57,974	61,229	62,840	66,438	69,299	69,920
Diabetes	45,055	54,419	58,110	59,017	58,058	57,678	59,098	63,276	66,344	67,994	71,813	74,694	75,438
Hypertension	39,882	47,207	49,706	50,628	49,910	50,646	51,642	55,385	58,575	59,973	63,276	66,037	66,779
Glomerulonephritis	35,332	42,477	44,456	44,766	44,408	45,122	46,125	48,986	51,724	53,114	55,937	58,078	58,696
Other cause	37,124	45,750	48,586	50,158	49,447	50,223	52,031	55,740	59,293	60,881	64,163	66,858	66,707
Unknown cause	38,004	45,059	48,595	48,954	48,826	49,086	50,603	52,931	57,042	55,872	63,051	66,447	67,171
All	40,005	48,664	51,733	52,790	52,176	52,552	53,918	57,769	61,014	62,517	66,189	69,008	69,681



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 Two) for further details. Age is calculated as of January 1 of each calendar year.



Table K.10

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

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	91,842	96,041	113,787	92,802	103,766	94,251	89,954	97,588	101,296	109,337	108,317	144,210	120,366
5-9	96,066	91,333	100,111	104,070	93,577	89,583	88,882	83,110	78,329	89,557	81,567	115,894	101,418
10-14	80,831	91,423	82,721	96,018	84,364	77,480	79,135	89,541	81,281	95,192	96,458	95,853	97,174
15-19	76,241	84,596	85,263	81,929	88,945	79,521	79,419	87,580	91,599	91,694	100,218	104,562	97,947
20-29	76,491	88,793	87,445	88,910	86,614	85,943	83,788	90,204	92,534	93,146	91,247	98,571	100,757
30-39	78,980	92,988	93,820	90,552	87,456	89,840	91,777	92,516	93,906	95,432	99,911	101,422	102,166
40-49	80,497	92,291	91,619	93,080	87,771	89,296	92,702	93,589	96,527	95,235	98,485	103,040	104,124
50-59	81,789	92,674	93,410	95,249	91,673	91,298	95,281	94,515	97,348	97,317	103,151	104,369	105,612
60-64	82,501	94,686	93,711	94,069	94,157	93,565	97,263	98,642	100,064	101,404	100,365	105,510	110,649
65-69	85,910	97,668	98,104	107,149	100,622	98,062	98,033	103,891	103,373	101,930	107,735	110,352	111,722
70-79	81,166	97,434	91,461	101,251	103,902	103,177	103,840	110,255	108,440	104,051	104,688	111,227	113,203
80+	97,945	101,053	71,019	88,063	77,466	71,440	102,362	119,855	88,343	91,890	117,257	115,164	92,656
0-19	81,932	87,983	90,377	90,215	90,038	81,729	81,459	88,402	88,168	94,926	98,340	107,524	101,063
20-44	78,555	91,761	91,411	90,587	87,002	88,605	89,428	92,567	93,977	94,815	96,974	102,306	102,630
45-64	81,564	92,711	92,997	94,582	91,381	91,261	95,450	94,749	97,951	97,669	101,723	103,479	106,148
65-74	85,315	97,309	96,869	105,069	101,279	99,576	99,674	105,236	104,090	102,609	106,635	110,815	112,238
75+	73,261	104,966	74,709	115,386	102,386	93,287	103,407	119,520	115,634	101,932	108,095	110,243	110,108
Male	80,099	92,097	90,818	92,782	89,725	90,031	92,112	95,133	96,149	96,616	99,773	104,113	105,597
Female	80,254	92,711	94,674	94,344	91,150	90,948	94,099	94,631	98,300	98,060	101,721	104,933	106,139
White	80,798	92,529	92,754	94,242	90,862	89,115	91,445	93,488	96,434	96,195	100,830	104,031	104,660
African American	79,268	93,296	91,730	92,776	90,104	94,062	97,180	99,143	99,372	100,600	102,040	107,121	109,900
Native American	72,189	89,280	88,497	90,086	79,275	85,421	85,149	82,112	87,600	92,847	87,342	104,135	99,228
Asian	76,599	81,853	91,737	86,082	86,490	86,426	86,825	89,129	92,370	88,752	92,231	97,291	97,567
Other/unknown	85,516	84,185	152,048	83,231	70,490	67,351	93,454	77,691	72,040	97,598	99,659	91,456	102,757
†Hispanic			90,106	92,956	87,240	87,075	87,149	89,471	90,195	91,739	95,348	96,709	100,318
†Non-Hispanic			92,591	93,306	90,538	90,902	93,780	95,874	98,234	98,231	101,075	105,204	106,311
Diabetes	84,801	99,817	99,114	100,995	96,356	94,971	102,351	102,684	105,677	106,939	108,722	114,484	113,798
Hypertension	79,774	90,594	88,488	91,861	87,820	90,722	92,031	94,693	96,397	94,745	97,475	99,722	99,484
Glomerulonephritis	76,850	87,760	88,420	88,889	86,258	86,596	86,371	89,085	90,874	90,849	94,603	96,134	102,792
Other cause	80,036	90,238	93,024	91,330	89,957	88,781	89,321	92,853	93,402	95,317	98,939	103,272	103,734
Unknown cause	81,271	103,136	94,795	97,381	93,657	93,221	96,356	91,829	97,517	90,008	102,477	111,544	111,901
All	80,162	92,333	92,381	93,412	90,303	90,402	92,925	94,928	97,015	97,191	100,548	104,434	105,807

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 Two) 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 patients, primary payor only, by age, gender, race, ethnicity, & primary diagnosis

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	10,951	12,827	14,134	16,345	13,546	10,434	18,718	13,035	15,235	16,726	19,800	26,521	23,503
5-9	8,219	8,599	7,879	7,524	9,981	8,838	8,465	8,669	10,902	12,789	12,640	12,103	17,559
10-14	7,334	5,968	7,077	8,554	7,765	6,912	7,561	7,896	9,390	11,933	14,421	21,010	14,229
15-19	7,059	8,787	7,840	7,943	6,968	7,620	8,804	10,288	9,510	13,596	14,650	13,297	15,985
20-29	7,269	8,025	8,007	8,660	8,536	8,569	8,240	9,885	10,691	11,672	12,623	14,065	14,239
30-39	8,030	9,239	9,901	9,947	9,646	9,521	9,868	11,105	12,090	12,589	13,432	14,457	14,140
40-49	8,736	10,267	11,035	11,179	10,768	10,216	10,925	12,175	13,203	13,882	15,108	15,909	15,306
50-59	8,867	12,185	12,614	13,169	12,466	11,652	13,031	13,910	14,661	15,579	16,190	16,961	16,291
60-64	9,899	12,262	12,990	14,319	13,769	13,344	14,703	15,699	16,106	18,394	18,140	19,037	18,719
65-69	10,490	13,781	13,978	14,030	14,341	14,509	15,501	16,718	18,102	18,698	20,377	20,367	19,109
70-79	10,792	13,674	13,872	14,662	15,647	15,975	16,465	18,976	19,270	20,396	21,352	21,850	20,666
80+	10,747	15,945	12,216	16,253	12,747	10,968	15,083	16,684	16,960	18,274	20,674	22,456	21,489
0-19	7,618	8,347	8,044	8,647	8,173	7,788	8,916	9,457	10,058	13,291	14,711	16,406	16,414
20-44	7,967	9,183	9,792	10,049	9,698	9,376	9,786	11,119	12,108	12,760	13,795	14,867	14,546
45-64	9,109	11,711	12,253	12,805	12,306	11,760	12,918	13,927	14,667	15,859	16,419	17,205	16,648
65-74	10,617	13,777	13,795	14,301	14,679	14,792	15,901	17,315	18,380	19,235	20,632	20,770	19,665
75+	9,857	13,616	15,690	13,913	16,050	17,161	15,676	20,131	19,892	20,614	21,904	22,895	21,075
Male	8,322	10,404	11,070	11,338	11,258	10,875	11,842	13,215	14,020	15,307	16,265	17,016	16,490
Female	8,882	11,065	11,429	12,196	11,704	11,615	12,443	13,764	14,992	15,949	16,992	18,009	17,446
White	8,438	10,516	11,045	11,376	11,130	10,952	11,817	13,121	13,984	15,260	16,305	17,098	16,549
African American	9,370	11,838	12,606	13,304	13,064	12,411	13,632	15,089	16,459	17,431	18,153	19,274	18,745
Native American	8,342	10,709	10,669	12,059	11,858	11,974	12,200	14,587	13,659	14,043	16,752	17,006	16,501
Asian	5,497	6,697	6,696	8,270	8,096	8,226	8,456	9,997	11,540	11,514	12,355	13,177	12,989
Other/unknown	9,850	9,281	4,031	10,518	4,167	4,066	10,460	8,516	12,030	8,851	16,232	19,686	17,121
†Hispanic			11,273	11,070	10,940	10,730	11,363	12,955	13,768	14,789	15,846	17,069	17,148
†Non-Hispanic			11,529	12,077	11,741	11,452	12,484	13,759	14,803	15,948	16,833	17,649	17,036
Diabetes	13,667	17,070	17,863	18,288	17,265	16,369	17,933	19,778	21,224	22,048	23,144	24,112	23,210
Hypertension	8,057	10,011	10,397	10,957	10,850	10,664	11,554	13,503	14,217	15,493	16,214	16,999	15,908
Glomerulonephritis	6,411	7,769	8,256	8,871	8,636	8,544	9,339	10,025	10,926	11,993	12,923	13,797	13,362
Other cause	7,394	8,712	9,013	9,146	9,527	9,462	9,989	11,030	11,781	13,255	14,193	14,958	14,908
Unknown cause	7,327	8,318	9,305	9,576	9,414	9,745	9,694	11,228	11,825	11,483	13,233	13,942	13,805
All	8,538	10,663	11,211	11,678	11,435	11,171	12,083	13,436	14,411	15,565	16,557	17,415	16,874

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 Two) for further details. Age is calculated as of January 1 of each calendar year.



Table K.12

Per person per year costs (\$): patients with a graft failure within the year (Model 2)

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

	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	67,902	.	59,837	.	146,176	82,778	.	78,548	71,364	178,075	211,355	165,236	132,840
5-9	48,684	66,306	156,709	97,786	55,712	86,674	80,978	28,489	51,386	26,708	26,838	102,703	89,695
10-14	40,469	49,093	42,574	69,175	42,565	39,107	39,173	59,888	48,752	62,945	53,361	70,216	147,608
15-19	38,924	49,700	52,656	57,668	46,024	53,128	62,676	53,264	63,718	62,882	71,231	79,655	73,061
20-29	46,926	45,583	56,901	48,866	50,623	52,191	55,204	53,824	60,976	56,709	63,668	73,841	71,023
30-39	45,669	52,992	54,390	56,508	54,960	56,922	54,974	58,708	66,736	64,690	70,383	72,623	78,925
40-49	48,044	55,232	56,222	60,509	58,327	60,176	58,509	65,914	65,028	67,000	72,402	72,664	71,761
50-59	49,734	55,108	63,101	62,995	64,678	65,326	66,596	70,128	76,554	69,325	76,113	82,847	80,860
60-64	52,584	62,282	70,016	71,930	72,412	73,351	71,970	77,639	73,329	89,367	90,146	90,851	87,080
65-69	51,039	68,805	69,828	70,941	80,928	73,886	59,988	77,815	87,477	96,660	90,980	86,270	97,024
70-79	67,330	62,351	98,748	80,570	56,423	61,587	65,199	93,300	84,511	88,869	95,106	98,247	96,721
80+	43,001	22,440	.	.	38,299	52,007	60,836	173,218	126,006	70,576	91,822	98,009	107,679
0-19	40,785	49,575	55,064	63,243	48,859	54,670	58,886	54,720	60,300	65,382	67,469	80,016	87,551
20-44	46,321	51,482	55,469	54,827	55,646	55,930	55,631	58,067	65,106	63,177	66,993	74,012	73,227
45-64	50,058	56,642	61,731	65,340	62,321	65,868	65,736	71,641	72,523	72,947	79,725	80,296	80,819
65-74	55,759	66,643	77,539	75,226	74,557	69,172	61,383	84,286	87,298	94,419	90,979	91,023	95,804
75+	36,792	52,035	84,110	69,396	55,976	70,847	67,723	93,783	84,656	86,535	102,698	97,683	108,087
Male	45,546	51,886	55,424	56,324	56,900	60,938	58,398	66,074	66,725	68,570	73,040	75,692	78,355
Female	49,996	57,047	64,177	65,860	62,664	60,410	63,771	66,626	74,891	75,715	81,705	85,668	84,399
White	48,146	55,597	59,546	59,186	59,778	61,087	59,383	66,401	71,218	71,558	75,562	80,052	80,882
African American	45,613	51,845	58,839	62,609	57,501	60,558	63,130	65,952	70,505	72,167	79,178	79,481	81,868
Native American	52,265	54,182	48,817	61,443	52,341	43,348	55,664	60,296	73,776	76,340	73,373	79,242	88,494
Asian	45,768	36,094	53,546	53,456	68,907	63,565	58,073	70,802	49,261	57,367	61,689	72,407	66,780
Other/unknown		113,333	.	24,838	187,862	12,635	73,576	.	73,070	40,960	42,504	120,725	97,735
†Hispanic			56,177	57,451	56,983	61,930	56,838	64,718	70,240	73,333	70,388	79,737	79,667
†Non-Hispanic			58,927	60,236	59,240	60,317	60,779	66,430	69,974	70,973	77,372	80,032	81,344
Diabetes	61,155	68,646	69,702	74,687	71,758	76,278	75,026	80,773	86,214	88,390	95,123	93,968	95,311
Hypertension	44,050	48,545	55,672	61,171	57,616	59,383	57,208	62,308	69,842	72,311	73,512	74,350	80,118
Glomerulonephritis	43,630	50,810	52,904	52,254	52,945	53,636	52,938	59,213	60,987	60,336	67,596	69,365	70,607
Other cause	44,974	51,403	61,656	58,867	55,425	57,439	61,199	65,439	66,571	67,806	70,848	81,898	77,718
Unknown cause	49,566	53,619	52,974	50,488	80,078	57,757	55,944	69,394	67,439	67,322	69,769	79,174	98,703
All	47,301	53,907	58,991	60,197	59,208	60,722	60,613	66,299	70,292	71,366	76,395	79,737	80,877

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 Two) 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*

	2002	2003	2004	2005	2006
All	10,002	10,696	11,409	12,333	12,692
Nephrology	2,177	2,271	2,446	2,602	2,656
Pediatric medicine	912	1,157	1,310	1,656	1,348
Medical supply company	840	720	706	707	682
Laboratory	806	895	922	977	1,015
Ambulance service supplier	1,118	1,325	1,541	1,858	2,056
Internal medicine	779	825	911	952	925
General surgery	430	438	427	430	423
Radiology (diagnostic and therapeutic)	527	597	616	706	747
Cardiology	352	402	430	454	457
Anesthesiology	228	233	239	237	226
Multispecialty clinic/group practice	130	6	9	8	5
Pharmacy	725	851	873	964	1,028
Ophthalmology	145	156	163	171	173
Vascular surgery	164	182	191	213	223
Thoracic surgery	70	68	66	63	61
General and family practice	168	210	243	277	277
Emergency medicine	175	204	228	260	284
Gastroenterology	94	99	105	107	105
Urology	74	78	75	69	69
Pulmonary disease	111	128	139	149	145
Orthopedic surgery	85	91	93	95	92
Neurology	80	88	96	96	99
Hematology/oncology	98	122	142	143	152
Infectious disease	84	96	108	114	112
Pathology	50	54	57	58	60
Therapeutic services	72	80	92	99	93
Podiatry	68	77	83	90	92
Cardiac surgery	30	34	37	38	38
Dermatology	45	50	51	54	56
Ambulatory surgery center	44	52	56	59	62
Psychiatry (includes neuropsychiatry)	24	25	25	24	24
Obstetrics/gynecology	26	30	35	38	34
Endocrinology	30	33	37	39	38
Plastic and reconstructive surgery	20	20	18	18	17
Otolaryngology	21	22	24	24	24
Geriatric medicine	19	23	23	22	23
Neurosurgery	15	16	17	19	18
Peripheral vascular disease	9	8	8	8	9
Rheumatology	9	10	10	11	12
Optometry	11	12	13	15	15
Home health agency	3	2	1	1	1
Hospital	1	4	2	1	1
Nuclear medicine	5	6	7	7	7
Chiropractic	5	6	6	7	7
Colorectal surgery	3	3	3	4	4
Allergy/immunology	2	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	28	34	38	44	44
Unknown	12	18	9	9	14
Patients	357,454	372,364	383,721	395,484	397,705
Total years at risk	285,346	297,731	307,841	317,346	322,671

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



Table K.14

Per person per year estimated costs (\$): all non-ESRD patients

general Medicare patients (5 percent sample), primary payor only, by age, gender & race

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
20 - 29	3,077	3,146	3,253	3,134	3,295	3,357	3,170	3,152	3,612	3,476	3,652	3,916	4,276	4,397
30 - 39	3,450	3,787	3,902	4,038	3,970	3,851	3,718	3,728	4,121	4,366	4,714	5,121	5,393	5,389
40 - 49	3,247	3,603	3,800	3,996	4,115	4,057	4,042	4,190	4,584	4,895	5,287	5,786	6,249	6,280
50 - 59	3,821	4,078	4,477	4,692	4,852	4,734	4,761	4,895	5,365	5,662	6,115	6,529	6,891	7,144
60 - 64	3,279	3,578	3,872	4,257	4,369	4,438	4,344	4,357	4,815	5,136	5,552	6,218	6,593	6,787
65 - 69	2,775	3,022	3,266	3,440	3,626	3,606	3,599	3,710	4,063	4,274	4,531	4,872	5,192	5,349
70 - 74	3,544	3,849	4,168	4,403	4,666	4,606	4,641	4,795	5,216	5,491	5,823	6,244	6,625	6,771
75 - 79	4,375	4,781	5,146	5,489	5,799	5,659	5,652	5,866	6,422	6,786	7,165	7,723	8,180	8,386
80 - 84	5,055	5,658	6,220	6,611	6,989	6,669	6,580	6,818	7,548	7,885	8,279	8,922	9,526	9,912
85+	5,745	6,549	7,284	7,746	8,316	7,834	7,628	7,869	8,714	9,222	9,673	10,438	11,208	11,735
20 - 44	3,306	3,595	3,740	3,848	3,894	3,809	3,720	3,805	4,178	4,374	4,711	5,116	5,460	5,470
45 - 54	3,497	3,718	4,027	4,266	4,423	4,272	4,302	4,446	4,844	5,259	5,657	6,056	6,566	6,701
55 - 64	3,450	3,789	4,116	4,449	4,574	4,642	4,574	4,616	5,122	5,382	5,822	6,438	6,758	6,993
65 - 74	3,138	3,417	3,706	3,914	4,140	4,108	4,126	4,254	4,636	4,869	5,150	5,515	5,860	6,009
75+	4,912	5,478	6,002	6,394	6,788	6,513	6,434	6,660	7,345	7,743	8,149	8,798	9,398	9,766
Male	3,707	4,160	4,577	4,868	5,173	5,048	5,000	5,197	5,722	6,050	6,402	6,935	7,387	7,667
Female	4,052	4,370	4,706	5,014	5,303	5,202	5,220	5,349	5,847	6,123	6,476	6,933	7,388	7,589
White	3,832	4,183	4,553	4,836	5,130	5,033	5,018	5,209	5,711	6,007	6,368	6,866	7,324	7,560
African American	4,443	4,987	5,477	5,933	6,272	5,982	5,843	5,889	6,479	6,858	7,138	7,734	8,208	8,498
Native American	2,647	3,199	3,785	3,985	4,118	4,439	4,139	4,594	5,324	5,794	6,676	6,926	7,192	7,646
Asian	2,544	2,836	3,137	3,507	4,203	3,989	4,309	4,481	5,346	5,634	5,805	6,236	6,294	6,200
†Hispanic	3,149	3,915	4,269	4,708	5,354	5,249	5,354	5,314	6,052	6,596	6,986	7,475	8,053	8,921
Other/unknown	3,270	5,183	5,961	6,099	5,409	5,312	5,407	5,030	4,945	4,986	5,236	5,355	5,703	5,913
Diabetes	7,185	7,851	8,579	9,063	9,523	9,081	8,811	8,980	9,717	10,097	10,558	11,228	11,773	12,115
CHF	12,153	13,205	14,272	15,133	15,902	15,124	14,805	15,187	16,678	17,686	18,492	19,820	21,086	21,924
CKD	16,020	17,427	18,812	19,980	20,486	19,340	19,113	19,176	20,602	20,814	21,252	22,227	22,824	23,236
All	3,852	4,248	4,631	4,929	5,227	5,113	5,093	5,261	5,775	6,081	6,434	6,934	7,387	7,633

Hispanic ethnicity is considered a separate racial category in the general Medicare data.
 Age groupings have been adjusted to reflect the older general Medicare population.
 Age <20 excluded.



Table K.15

Per person per year estimated costs (\$): Medicare CKD patients*general Medicare patients (5 percent sample), primary payor only, by age, gender, & race*

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
20 - 29	15,236	18,761	22,881	23,517	25,351	18,699	23,419	22,901	27,714	23,411	24,504	23,529	24,214	26,705
30 - 39	20,547	20,910	23,088	21,704	19,915	20,779	21,258	21,135	22,266	23,244	22,106	27,334	27,253	27,433
40 - 49	18,206	19,190	21,063	23,045	20,526	18,924	20,166	20,808	21,053	22,892	25,253	26,882	26,970	27,467
50 - 59	18,596	20,038	21,196	21,118	22,138	20,794	20,139	22,133	23,136	22,857	24,685	25,207	25,545	26,289
60 - 64	20,596	20,290	21,415	24,654	23,806	22,820	21,770	21,879	23,385	23,086	24,269	25,535	25,087	25,476
65 - 69	16,083	16,926	18,702	19,085	19,471	18,709	18,266	18,136	19,493	19,458	19,999	20,463	20,877	21,326
70 - 74	15,908	17,308	18,775	19,949	19,627	19,284	18,903	18,273	19,644	20,007	20,299	20,669	21,567	21,647
75 - 79	16,352	17,442	18,546	19,672	21,219	19,512	19,437	19,603	20,759	21,129	21,119	22,190	22,706	23,006
80 - 84	14,992	17,498	18,738	20,369	20,678	19,246	19,269	19,638	20,989	20,921	21,226	22,699	23,294	23,745
85+	14,657	16,360	17,574	18,969	20,245	18,715	18,327	18,341	20,543	20,917	21,312	22,485	23,377	23,970
20 - 44	18,537	20,250	22,299	22,328	20,958	19,709	21,282	20,562	23,015	23,342	23,733	26,674	27,493	27,018
45 - 54	18,365	19,182	19,907	21,397	21,635	19,822	20,162	22,119	21,729	22,636	25,915	25,934	26,632	26,858
55 - 64	20,040	20,293	21,860	23,674	23,058	22,155	21,016	21,915	23,326	23,039	24,003	25,414	24,861	25,837
65 - 74	15,987	17,137	18,742	19,564	19,559	19,038	18,636	18,215	19,579	19,768	20,166	20,577	21,257	21,502
75+	15,427	17,137	18,317	19,689	20,762	19,190	19,053	19,240	20,767	21,001	21,209	22,444	23,104	23,554
Male	15,743	17,476	19,003	20,071	20,664	19,385	19,023	19,101	20,737	20,731	21,095	22,208	22,627	23,210
Female	16,298	17,375	18,612	19,885	20,299	19,293	19,207	19,254	20,461	20,902	21,415	22,247	23,030	23,263
White	15,810	17,047	18,409	19,361	19,940	18,832	18,694	18,803	20,080	20,299	20,796	21,762	22,325	22,672
African American	16,884	18,936	20,682	23,086	23,277	22,274	21,427	21,413	23,473	23,452	23,635	25,100	25,857	26,185
Native American	11,418	16,854	18,549	18,005	17,367	18,374	13,818	17,302	18,607	18,942	21,149	19,571	20,640	22,310
Asian	13,476	14,592	13,643	16,364	16,985	16,119	17,981	19,419	22,698	22,500	21,237	23,128	21,784	22,235
+Hispanic	14,057	19,166	20,822	21,004	22,775	19,948	20,140	19,268	21,701	23,535	23,721	23,942	25,821	28,965
Other/unknown	21,740	22,489	22,527	26,383	24,141	22,328	22,367	20,593	21,127	20,362	22,016	19,567	20,623	22,744
NDM, non-CHF	11,335	11,973	12,697	13,498	13,276	12,521	12,597	12,633	13,107	13,368	13,912	14,482	14,901	15,391
CHF	21,526	23,614	25,572	27,132	28,411	26,996	26,572	26,727	29,095	29,610	30,149	31,643	32,801	33,659
DM	18,497	20,422	22,039	23,131	23,851	22,125	21,458	21,654	23,269	23,202	23,784	24,856	25,519	26,036
DM & CHF	23,326	26,156	28,228	29,784	31,288	29,422	28,632	29,121	31,187	31,436	32,198	33,760	35,098	36,375
All	16,020	17,427	18,812	19,980	20,486	19,340	19,113	19,176	20,602	20,814	21,252	22,227	22,824	23,236

Hispanic ethnicity is considered a separate racial category in the general Medicare data.
 Age groupings have been adjusted to reflect the older general Medicare population.
 Age <20 excluded.



Table K.16

Per person per year estimated costs (\$): Medicare patients with diabetes

general Medicare patients (5 percent sample) surviving entire year, primary payor only, by age, gender, & race

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
20 - 29	7,969	9,195	8,626	8,681	11,067	11,341	9,957	9,052	11,158	9,698	10,361	11,019	11,112	11,319
30 - 39	8,085	8,550	8,800	9,179	9,037	8,290	8,133	8,754	9,417	9,870	10,019	11,307	10,947	11,720
40 - 49	6,971	7,404	8,231	8,740	8,468	8,487	8,500	8,964	9,257	10,043	10,980	11,738	12,054	12,207
50 - 59	7,488	7,850	8,689	8,776	9,176	8,633	8,777	9,094	9,791	9,758	10,476	11,270	11,705	12,102
60 - 64	7,483	8,008	8,488	9,398	9,271	9,324	8,694	8,610	9,302	9,668	10,206	11,241	11,691	12,156
65 - 69	5,906	6,370	6,922	7,222	7,472	7,274	7,024	7,131	7,736	8,017	8,422	8,716	9,172	9,393
70 - 74	6,798	7,381	7,939	8,341	8,741	8,453	8,168	8,248	8,895	9,204	9,628	10,252	10,608	10,865
75 - 79	7,684	8,399	9,114	9,558	10,253	9,669	9,472	9,556	10,320	10,797	11,219	11,875	12,461	12,732
80 - 84	8,285	9,250	10,394	10,955	11,532	10,575	10,218	10,488	11,501	11,923	12,333	13,256	14,103	14,547
85+	8,987	10,081	11,113	12,050	12,779	11,819	11,231	11,730	12,731	13,456	13,927	14,798	15,652	16,209
20 - 44	7,600	8,100	8,445	8,540	8,752	8,374	8,493	8,754	9,380	9,987	10,601	11,698	11,778	11,929
45 - 54	7,267	7,519	8,135	8,778	8,942	8,612	8,600	9,151	9,635	9,985	10,709	11,316	11,848	12,127
55 - 64	7,480	8,008	8,717	9,262	9,255	9,107	8,746	8,779	9,484	9,640	10,285	11,276	11,640	12,143
65 - 74	6,356	6,884	7,450	7,807	8,140	7,903	7,637	7,723	8,343	8,630	9,033	9,476	9,878	10,111
75+	8,139	9,015	9,942	10,527	11,194	10,415	10,084	10,306	11,200	11,721	12,154	12,954	13,704	14,118
Male	7,102	7,825	8,601	9,098	9,558	9,059	8,722	8,964	9,708	10,100	10,544	11,240	11,714	12,140
Female	7,299	7,888	8,548	9,014	9,475	9,111	8,929	9,000	9,730	10,094	10,576	11,214	11,847	12,084
White	7,114	7,738	8,446	8,862	9,310	8,915	8,646	8,892	9,558	9,915	10,397	11,066	11,613	11,905
African American	7,642	8,668	9,500	10,368	10,935	10,262	9,898	9,772	10,843	11,249	11,594	12,388	12,944	13,440
Native American	4,970	6,445	7,536	7,622	7,684	7,854	7,161	7,896	8,980	9,248	10,461	10,047	10,633	11,344
Asian	5,473	5,625	6,303	7,008	7,724	7,451	7,796	7,727	8,967	9,850	9,956	10,242	10,230	10,108
+Hispanic	5,891	7,429	8,054	8,624	9,666	9,024	9,035	8,784	9,896	10,778	11,213	12,150	13,031	14,589
Other/unknown	10,599	9,053	10,501	11,502	10,309	9,569	9,169	8,651	8,838	8,668	9,248	9,137	9,751	10,206
Non-CKD, non-CHF	4,791	5,140	5,557	5,707	5,894	5,627	5,441	5,513	5,920	6,116	6,388	6,789	7,166	7,248
CHF	14,942	16,440	17,793	18,817	19,794	18,562	17,952	18,446	19,994	21,093	21,947	23,384	24,757	25,861
CKD	18,497	20,422	22,039	23,131	23,851	22,125	21,458	21,654	23,269	23,202	23,784	24,856	25,519	26,036
CKD& CHF	23,326	26,156	28,228	29,784	31,288	29,422	28,632	29,121	31,187	31,436	32,198	33,760	35,098	36,375
All	7,185	7,851	8,579	9,063	9,523	9,081	8,811	8,980	9,717	10,097	10,558	11,228	11,773	12,115

Hispanic ethnicity is considered a separate racial category in the general Medicare data.
 Age groupings have been adjusted to reflect the older general Medicare population.
 Age <20 excluded.



Table K.17

Per person per year estimated costs (\$): Medicare patients with CHF

general Medicare patients (5 percent sample), primary payor only, by age, gender, & race

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
20 - 29	22,733	18,962	20,862	21,301	24,723	21,686	27,686	27,883	28,446	23,838	24,289	19,056	26,563	28,005
30 - 39	17,321	18,118	20,387	23,069	20,331	18,845	18,097	18,013	20,162	21,644	20,983	23,982	25,532	24,637
40 - 49	13,485	15,490	16,860	17,282	17,283	16,855	16,850	17,450	18,079	19,640	21,461	22,562	23,889	24,462
50 - 59	14,144	14,856	16,253	16,338	17,509	16,480	16,737	17,131	18,151	18,730	20,073	21,076	22,314	23,256
60 - 64	15,297	15,646	16,739	18,264	18,198	18,051	16,922	17,063	18,859	19,853	20,397	22,252	23,145	24,221
65 - 69	13,200	14,134	15,082	15,667	16,437	16,195	15,540	15,499	17,187	17,997	18,682	19,755	20,956	21,838
70 - 74	12,862	13,865	14,903	15,810	16,491	15,677	15,475	15,766	16,851	17,965	18,819	19,815	21,155	21,602
75 - 79	12,434	13,482	14,311	15,317	16,296	15,604	15,368	15,731	17,077	18,337	19,007	20,434	21,783	22,175
80 - 84	11,523	12,788	14,129	14,924	15,679	14,693	14,378	14,858	16,759	17,562	18,488	19,789	20,976	22,143
85+	10,556	11,665	12,738	13,653	14,462	13,504	13,179	13,715	15,190	16,179	16,904	18,486	19,775	20,929
20 - 44	16,039	16,804	19,287	19,670	19,427	17,857	18,732	19,238	20,206	21,404	22,007	23,000	24,497	25,760
45 - 54	13,639	14,740	15,887	16,566	17,441	16,204	16,657	16,992	17,548	18,852	20,544	21,725	23,283	23,694
55 - 64	14,975	15,510	16,698	17,703	17,906	17,655	16,820	17,064	18,741	19,414	20,210	21,727	22,696	23,695
65 - 74	13,004	13,977	14,976	15,752	16,469	15,882	15,500	15,660	16,988	17,978	18,761	19,789	21,069	21,705
75+	11,468	12,595	13,671	14,572	15,418	14,532	14,235	14,711	16,282	17,301	18,070	19,511	20,775	21,690
Male	11,676	12,826	13,993	14,761	15,539	14,770	14,377	14,828	16,328	17,327	18,084	19,461	20,785	21,739
Female	12,871	13,781	14,697	15,698	16,445	15,648	15,430	15,699	17,166	18,177	19,044	20,296	21,478	22,163
White	11,993	12,978	14,003	14,787	15,542	14,819	14,507	14,928	16,310	17,280	18,136	19,471	20,724	21,472
African American	13,094	14,715	16,119	17,561	18,358	17,335	16,758	16,968	18,950	20,125	20,647	22,042	23,542	24,720
Native American	10,912	12,310	15,819	15,184	13,922	14,347	13,341	14,307	16,377	17,841	20,322	20,974	20,810	22,556
Asian	11,910	12,969	12,159	13,483	15,071	15,151	15,903	16,846	19,648	20,739	19,243	21,379	19,837	20,922
†Hispanic	11,762	14,978	16,212	16,825	19,158	17,687	17,317	16,157	19,482	21,104	21,576	21,873	24,230	26,811
Other/unknown	16,145	15,244	16,609	18,790	17,801	15,084	15,937	17,028	17,049	17,177	18,794	19,960	20,911	22,812
NDM, non-CKD	10,262	11,008	11,818	12,438	12,951	12,293	11,945	12,110	13,148	13,804	14,344	15,177	16,061	16,120
CKD	21,526	23,614	25,572	27,132	28,411	26,996	26,572	26,727	29,095	29,610	30,149	31,643	32,801	33,659
DM	14,942	16,440	17,793	18,817	19,794	18,562	17,952	18,446	19,994	21,093	21,947	23,384	24,757	25,861
CKD & DM	23,326	26,156	28,228	29,784	31,288	29,422	28,632	29,121	31,187	31,436	32,198	33,760	35,098	36,375
All	12,153	13,205	14,272	15,133	15,902	15,124	14,805	15,187	16,678	17,686	18,492	19,820	21,086	21,924

Hispanic ethnicity is considered a separate racial category in the general Medicare data.
 Age groupings have been adjusted to reflect the older general Medicare population.
 Age <20 excluded.



Table K.18

Per person per year estimated costs (\$): Medicare patients without ESRD, CKD, diabetes, or CHF
general Medicare patients (5 percent sample), primary payor only, by age, gender, & race

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
20 - 29	2,791	2,779	2,880	2,708	2,752	2,859	2,639	2,609	2,942	2,879	3,030	3,263	3,508	3,562
30 - 39	2,960	3,276	3,323	3,399	3,346	3,224	3,062	2,993	3,288	3,383	3,712	3,900	4,183	3,990
40 - 49	2,571	2,834	2,933	3,026	3,138	3,035	2,967	3,043	3,352	3,506	3,694	3,956	4,383	4,282
50 - 59	2,500	2,677	2,889	3,054	3,075	3,045	2,993	3,011	3,293	3,550	3,727	4,028	4,229	4,320
60 - 64	2,022	2,201	2,375	2,506	2,557	2,531	2,558	2,521	2,814	3,013	3,250	3,583	3,785	3,816
65 - 69	1,883	2,037	2,172	2,254	2,343	2,304	2,334	2,414	2,626	2,748	2,886	3,133	3,327	3,379
70 - 74	2,355	2,537	2,718	2,825	2,962	2,920	2,955	3,082	3,353	3,519	3,721	3,960	4,192	4,240
75 - 79	2,893	3,142	3,345	3,515	3,616	3,539	3,547	3,720	4,074	4,228	4,481	4,840	5,086	5,172
80 - 84	3,334	3,702	3,982	4,161	4,323	4,179	4,142	4,339	4,772	4,948	5,157	5,522	5,867	5,994
85+	3,819	4,378	4,859	5,035	5,363	5,047	4,910	5,065	5,658	5,941	6,249	6,668	7,179	7,418
20 - 44	2,837	3,078	3,143	3,201	3,218	3,121	2,969	3,000	3,275	3,354	3,593	3,801	4,090	4,004
45 - 54	2,539	2,656	2,851	2,988	3,075	2,928	2,910	2,954	3,226	3,490	3,685	3,931	4,315	4,320
55 - 64	2,122	2,351	2,529	2,657	2,698	2,745	2,734	2,687	3,017	3,211	3,421	3,780	3,964	3,997
65 - 74	2,101	2,270	2,431	2,528	2,641	2,605	2,639	2,739	2,976	3,113	3,273	3,507	3,716	3,764
75+	3,232	3,585	3,879	4,055	4,223	4,075	4,040	4,217	4,656	4,852	5,108	5,491	5,842	5,992
Male	2,435	2,724	2,958	3,090	3,246	3,177	3,170	3,310	3,657	3,858	4,085	4,426	4,718	4,821
Female	2,702	2,884	3,063	3,204	3,311	3,241	3,249	3,334	3,623	3,735	3,910	4,146	4,386	4,427
White	2,574	2,793	3,001	3,140	3,276	3,216	3,223	3,354	3,689	3,854	4,059	4,363	4,645	4,730
African American	2,668	2,918	3,158	3,288	3,442	3,257	3,162	3,186	3,425	3,568	3,760	4,042	4,283	4,264
Native American	1,950	2,108	2,474	2,585	2,645	2,805	2,610	2,822	3,175	3,457	4,018	4,157	4,441	4,531
Asian	1,662	1,841	2,038	2,210	2,700	2,325	2,497	2,627	3,081	3,210	3,411	3,658	3,678	3,462
†Hispanic	1,953	2,403	2,490	2,666	2,946	2,893	2,877	2,994	3,263	3,465	3,821	3,986	4,226	4,591
Other/unknown	1,747	3,141	3,688	3,539	3,022	3,260	3,293	2,924	2,860	3,035	3,021	3,165	3,304	3,308
All	2,546	2,791	3,002	3,138	3,274	3,204	3,203	3,320	3,642	3,806	4,011	4,306	4,576	4,653

Hispanic ethnicity is considered a separate racial category in the general Medicare data.
 Age groupings have been adjusted to reflect the older general Medicare population.
 Age <20 excluded.

