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Table H.1
Total patient deaths: ESRD patients

by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	*	*	*	12	13	18	15	16	19	19	25	26	18	14	19	14	17	14	14	12	14	12	15	16
5-9	*	11	*	*	*	14	*	11	*	*	11	12	*	*	*	*	12	*	*	*	*	11	*	12	*
10-14	21	*	*	*	13	20	18	16	21	16	12	16	15	16	11	11	14	15	11	19	*	*	14	20	11
15-19	30	49	28	44	38	39	31	38	44	32	29	38	38	34	34	39	34	37	30	38	32	34	35	47	26
20-29	250	288	274	297	302	334	354	347	419	443	407	404	438	423	400	382	412	401	373	380	366	412	401	422	419
30-39	588	631	760	755	934	1,009	1,119	1,261	1,332	1,370	1,436	1,465	1,568	1,657	1,654	1,736	1,720	1,668	1,562	1,699	1,608	1,627	1,620	1,547	1,480
40-49	903	993	1,025	1,139	1,294	1,439	1,624	1,741	1,912	2,056	2,358	2,500	2,852	2,967	3,210	3,501	3,667	3,813	3,891	4,071	4,182	4,434	4,544	4,516	4,516
50-59	1,694	1,850	2,080	2,454	2,535	2,915	3,037	3,192	3,556	3,748	3,868	4,114	4,546	5,006	5,482	5,775	6,117	6,573	7,050	7,821	8,139	8,727	9,073	9,531	9,645
60-64	1,184	1,261	1,540	1,700	2,091	2,379	2,601	2,729	3,040	3,192	3,332	3,624	3,942	4,114	4,305	4,612	4,756	5,027	5,324	5,733	5,858	6,149	6,191	6,845	6,951
65-69	1,347	1,498	1,611	1,991	2,236	2,651	3,101	3,267	3,830	4,217	4,598	4,967	5,461	5,972	6,252	6,702	7,094	7,435	7,770	8,060	8,328	8,666	8,715	9,028	9,147
70-79	1,684	2,016	2,384	2,862	3,680	4,328	4,807	5,548	6,345	7,146	7,968	8,941	10,521	11,815	12,563	14,019	15,385	16,419	17,973	19,588	20,159	20,771	21,380	21,796	21,974
80+	356	434	572	699	1,006	1,216	1,499	1,756	2,224	2,660	2,931	3,594	4,248	4,962	5,663	6,354	7,191	8,143	9,168	10,398	11,363	12,478	13,594	14,505	15,189
Unknown																									
0-19	68	75	54	66	71	86	75	80	88	76	71	91	88	78	67	76	74	77	64	78	57	65	68	94	58
20-44	1,215	1,358	1,477	1,520	1,840	1,958	2,182	2,391	2,570	2,760	2,924	3,027	3,312	3,404	3,469	3,644	3,680	3,647	3,581	3,720	3,677	3,748	3,827	3,702	3,627
45-64	3,404	3,665	4,202	4,825	5,316	6,118	6,553	6,879	7,689	8,049	8,477	9,080	10,034	10,763	11,582	12,362	12,992	13,835	14,619	15,984	16,476	17,601	18,002	19,159	19,384
65-74	2,361	2,743	3,051	3,698	4,376	5,151	5,819	6,402	7,354	8,114	8,914	9,875	11,374	12,443	13,294	14,385	15,315	16,057	17,073	17,968	18,428	18,956	19,368	19,720	19,909
75+	1,026	1,205	1,516	1,854	2,546	3,044	3,588	4,169	5,045	5,909	6,583	7,627	8,856	10,306	11,184	12,690	14,355	15,940	17,838	20,078	21,422	22,959	24,321	25,609	26,401
Unknown																									
Male	4,494	5,132	5,743	6,594	7,749	9,008	10,081	10,940	12,416	13,499	14,467	15,751	17,814	19,420	20,817	22,668	24,450	25,799	27,853	30,239	31,526	33,428	34,713	36,533	37,516
Female	3,580	3,914	4,557	5,369	6,400	7,349	8,136	8,981	10,330	11,409	12,502	13,949	15,850	17,574	18,779	20,489	21,966	23,757	25,322	27,589	28,534	29,901	30,873	31,751	31,863
Unknown																									
White	5,759	6,517	7,422	8,515	10,089	11,533	12,706	13,905	15,868	17,091	18,676	20,640	23,480	25,564	26,999	29,229	31,274	33,317	35,765	38,429	40,074	42,159	43,924	45,502	46,078
Black	2,114	2,301	2,600	3,170	3,727	4,424	5,042	5,507	6,282	7,165	7,556	8,298	9,283	10,423	11,326	12,462	13,278	14,099	15,051	16,711	17,120	18,217	18,543	19,485	19,913
Native American	19	22	53	60	95	121	159	179	208	241	294	286	324	382	425	436	541	543	576	652	743	704	776	782	766
Asian	*	*	37	58	103	159	208	236	271	291	417	443	544	598	807	959	1,138	1,269	1,371	1,529	1,571	1,721	1,843	1,973	2,084
Other/unknown	175	199	188	160	135	120	102	94	117	120	26	33	33	27	39	71	185	328	412	507	552	528	500	542	538
†Hispanic																	3,530	4,274	4,812	5,304	5,738	6,319	6,613	7,137	7,307
†Non-Hispanic																	42,886	45,282	48,363	52,524	54,322	57,010	58,973	61,147	62,072
Diabetes	1,092	1,424	2,015	2,764	3,392	4,337	5,216	6,050	7,014	7,905	9,252	10,701	12,575	14,169	15,478	17,362	19,525	21,352	23,748	26,417	27,374	29,425	30,332	31,758	32,363
Hypertension	1,041	1,393	1,909	2,509	3,228	4,016	4,514	5,362	6,363	7,211	8,073	9,159	10,356	11,735	12,695	13,636	13,883	14,697	15,423	16,460	17,063	17,811	18,514	19,199	19,761
Glomerulonephritis	875	1,041	1,302	1,501	1,772	2,049	2,368	2,623	3,084	3,194	3,459	3,559	3,866	4,040	4,218	4,596	4,788	4,960	5,070	5,288	5,434	5,462	5,560	5,631	5,357
Cystic kidney	237	302	327	402	478	546	643	615	718	749	804	779	828	922	907	1,031	1,052	1,087	1,095	1,158	1,168	1,301	1,257	1,278	1,265
Other urologic	114	167	257	346	380	492	632	701	749	844	841	825	933	957	880	1,002	1,205	1,277	1,358	1,531	1,655	1,727	1,833	1,875	1,946
Other cause	678	738	874	1,139	1,382	1,613	1,817	2,031	2,135	2,299	2,571	2,791	3,017	3,332	3,587	3,809	4,208	4,340	4,465	4,930	5,062	5,257	5,634	5,913	5,871
Missing disease	3,200	3,101	2,602	2,372	2,516	2,071	1,812	1,346	1,238	1,153	633	557	604	399	419	157	151	109	124	136	157	121	110	174	274
Unknown cause	837	880	1,014	930	1,001	1,233	1,215	1,193	1,445	1,553	1,336	1,329	1,485	1,440	1,412	1,564	1,604	1,734	1,892	1,908	2,147	2,225	2,346	2,456	2,542
<2 years	5,056	5,377	5,967	6,953	8,244	9,336	10,095	11,157	12,738	13,803	15,027	16,672	18,852	20,123	21,057	22,063	23,614	24,631	26,578	28,754	29,364	30,540	31,123	32,205	32,228
2-<5 years	2,547	2,940	3,396	3,284	3,743	4,392	5,015	5,237	5,970	6,566	7,007	7,755	9,038	10,314	11,342	12,800	13,724	14,743	15,511	16,840	17,414	18,380	19,312	19,841	20,136
5+ years	471	729	937	1,726	2,162	2,629	3,107	3,527	4,038	4,539	4,935	5,273	5,774	6,557	7,197	8,294	9,078	10,182	11,086	12,234	13,282	14,409	15,151	16,238	17,015
All	8,074	9,046	10,300	11,963	14,149	16,357	18,217	19,921	22,746	24,908	26,969	29,700	33,664	36,994	39,596	43,157	46,416	49,556	53,175	57,828	60,060	63,329	65,586	68,284	69,379

The age of patient is determined as of the date of death. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

*Values for cells with 10 or fewer patients are suppressed. ". "

Table H.1 (continued)

Total patient deaths: ESRD patients, with unknowns dropped

by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	*	*	*	12	12	16	14	16	19	19	24	25	18	12	19	13	15	13	12	*	12	11	15	13
5-9	*	*	*	*	*	11	*	11	*	*	11	11	*	*	*	*	12	*	*	*	*	*	*	*	*
10-14	15	*	*	*	12	15	17	16	20	15	12	15	15	14	*	11	12	15	*	17	*	*	14	19	11
15-19	23	40	22	40	31	35	30	36	42	28	27	36	37	30	33	38	32	36	27	34	30	31	35	45	26
20-29	213	253	247	270	275	303	330	329	394	418	388	386	416	402	389	361	392	380	351	364	353	385	386	404	392
30-39	536	575	699	683	877	947	1,069	1,200	1,264	1,290	1,377	1,406	1,504	1,603	1,592	1,671	1,650	1,611	1,513	1,623	1,543	1,547	1,554	1,478	1,416
40-49	788	910	932	1,072	1,212	1,324	1,543	1,662	1,804	1,935	2,271	2,419	2,738	2,873	3,115	3,401	3,549	3,687	3,761	3,922	4,042	4,292	4,394	4,358	4,330
50-59	1,530	1,670	1,880	2,275	2,374	2,719	2,840	3,022	3,357	3,568	3,696	3,971	4,379	4,846	5,326	5,609	5,951	6,354	6,800	7,568	7,838	8,442	8,773	9,190	9,297
60-64	1,045	1,131	1,386	1,573	1,931	2,204	2,429	2,581	2,859	3,015	3,210	3,486	3,807	3,986	4,175	4,470	4,616	4,878	5,134	5,539	5,635	5,954	5,982	6,613	6,753
65-69	1,185	1,332	1,403	1,795	2,057	2,423	2,876	3,054	3,609	3,942	4,387	4,786	5,224	5,765	6,041	6,465	6,858	7,140	7,467	7,762	8,020	8,370	8,400	8,710	8,810
70-79	1,425	1,695	2,049	2,537	3,342	3,949	4,417	5,138	5,810	6,613	7,516	8,471	10,028	11,325	12,073	13,460	14,745	15,725	17,197	18,800	19,274	19,883	20,464	20,862	21,042
80+	300	358	481	623	889	1,072	1,332	1,581	2,011	2,404	2,693	3,329	3,969	4,660	5,371	6,012	6,803	7,652	8,600	9,777	10,619	11,660	12,732	13,603	14,219
0-19	54	58	40	58	62	73	71	77	85	70	69	86	86	72	63	75	69	74	59	70	53	56	67	88	54
20-44	1,083	1,233	1,349	1,395	1,718	1,827	2,066	2,281	2,438	2,596	2,803	2,912	3,176	3,292	3,360	3,504	3,533	3,519	3,454	3,564	3,538	3,583	3,691	3,554	3,453
45-64	3,029	3,306	3,795	4,478	4,951	5,670	6,145	6,513	7,240	7,630	8,139	8,756	9,668	10,418	11,237	12,008	12,625	13,391	14,105	15,452	15,873	17,037	17,398	18,489	18,735
65-74	2,040	2,387	2,661	3,304	4,013	4,726	5,394	5,972	6,847	7,596	8,460	9,455	10,895	11,991	12,835	13,871	14,748	15,431	16,390	17,307	17,695	18,247	18,628	18,983	19,155
75+	870	998	1,272	1,651	2,275	2,718	3,231	3,801	4,583	5,363	6,136	7,131	8,326	9,759	10,650	12,066	13,658	15,086	16,874	19,032	20,218	21,666	22,968	24,192	24,916
Male	3,939	4,477	5,068	5,985	7,095	8,239	9,332	10,200	11,537	12,551	13,718	14,980	16,958	18,572	19,964	21,742	23,463	24,638	26,578	28,906	29,983	31,835	33,066	34,807	35,747
Female	3,137	3,505	4,049	4,901	5,924	6,775	7,575	8,444	9,656	10,704	11,889	13,360	15,193	16,960	18,181	19,782	21,170	22,863	24,304	26,519	27,394	28,754	29,686	30,499	30,566
White	5,123	5,844	6,645	7,797	9,341	10,641	11,811	13,044	14,817	16,024	17,730	19,669	22,390	24,524	25,983	28,107	30,127	32,026	34,374	37,002	38,467	40,489	42,137	43,656	44,139
Black	1,928	2,112	2,390	2,977	3,489	4,109	4,751	5,208	5,931	6,730	7,209	7,974	8,927	10,083	10,975	12,075	12,886	13,721	14,624	16,320	16,660	17,743	18,082	18,978	19,399
Native American	18	20	46	58	91	116	151	172	191	233	282	279	318	371	412	424	529	535	564	635	728	695	758	762	754
Asian	*	*	36	54	98	148	194	220	254	268	386	418	516	554	775	918	1,091	1,219	1,320	1,468	1,522	1,662	1,775	1,910	2,021
†Hispanic																	3,284	3,896	4,350	4,747	5,121	5,713	6,055	6,514	6,746
†Non-Hispanic																	41,349	43,605	46,532	50,678	52,256	54,876	56,697	58,792	59,567
Diabetes	1,059	1,373	1,975	2,734	3,374	4,318	5,201	6,037	6,995	7,888	9,244	10,690	12,566	14,164	15,464	17,327	19,409	21,125	23,462	26,083	27,004	29,070	30,008	31,419	32,043
Hypertension	1,037	1,375	1,891	2,491	3,217	4,003	4,506	5,360	6,354	7,197	8,069	9,153	10,355	11,732	12,687	13,620	13,853	14,652	15,360	16,381	16,982	17,729	18,433	19,112	19,658
Glomerulonephritis	853	1,019	1,275	1,486	1,759	2,038	2,356	2,615	3,071	3,178	3,457	3,555	3,864	4,037	4,216	4,591	4,776	4,941	5,053	5,259	5,409	5,430	5,526	5,588	5,322
Cystic kidney	234	297	325	397	477	542	642	615	714	746	804	779	828	922	907	1,031	1,050	1,085	1,092	1,156	1,161	1,293	1,252	1,273	1,261
Other urologic	114	164	254	344	378	489	631	701	745	839	841	824	933	956	880	1,002	1,202	1,269	1,351	1,521	1,643	1,721	1,820	1,865	1,934
Other cause	667	730	866	1,132	1,374	1,607	1,813	2,025	2,128	2,294	2,571	2,789	3,016	3,330	3,584	3,800	4,195	4,321	4,446	4,894	5,024	5,230	5,606	5,882	5,843
Missing disease	3,112	3,024	2,531	2,302	2,440	2,017	1,758	1,291	1,186	1,113	621	550	589	391	407	153	148	108	118	131	154	116	107	167	252
<2 years	4,510	4,801	5,377	6,438	7,759	8,791	9,547	10,581	11,997	12,980	14,427	16,015	18,107	19,446	20,338	21,251	22,635	23,427	25,243	27,427	27,842	29,089	29,582	30,598	30,633
2-<5 years	2,197	2,605	3,012	2,956	3,357	3,998	4,681	4,955	5,627	6,153	6,637	7,394	8,651	9,931	10,995	12,384	13,307	14,295	14,953	16,165	16,715	17,630	18,563	19,064	19,290
5+ years	369	576	728	1,492	1,903	2,225	2,679	3,108	3,569	4,122	4,543	4,931	5,393	6,155	6,812	7,889	8,691	9,779	10,686	11,833	12,820	13,870	14,607	15,644	16,390
All	7,076	7,982	9,117	10,886	13,019	15,014	16,907	18,644	21,193	23,255	25,607	28,340	32,151	35,532	38,145	41,524	44,633	47,501	50,882	55,425	57,377	60,589	62,752	65,306	66,313

The age of patient is determined as of the date of Death.

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.2
Annual mortality rates per 1,000 patient years at risk: ESRD patients
from day 91 to one year + 90 days, by age, gender, race, ethnicity, primary diagnosis, & vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	141	105	78	61	79	74	76	67	66	71	80	105	96	76	52	64	49	66	51	55	44	52	44	56.4	52.5
5-9	75.3	61	44	26	31	41	24	27	13	26	21	26	19	21	12	16	26	16	19	13	11	20	14	21.4	15.2
10-14	47	23	23	16	20	40	27	25	29	20	17	21.2	21	17.8	13.7	14.7	16.5	16.8	11.8	22.7	9.1	8	16.6	21.6	12
15-19	31.2	39	22.3	37.3	31.2	28.3	25.7	26.9	28	22.3	19.1	24.3	27.3	21.1	25	22.2	20.7	20.5	19.9	20	21.6	21.4	19.4	27.9	18
20-29	53	54	47	48	44	46	46	44	50	50	44	44	45	41	39	38	38	36	33	35	32	36	36	38.5	37.5
30-39	86	79	83	73	80	76	78	79	75	75	74	68	69	69	66	66	64	60	57	60	56	57	56	52.2	50.3
40-49	118	115	105	106	103	106	110	104	104	100	102	98	99	93	93	95	91	91	88	88	86	88	87	84.7	82.5
50-59	159	156	156	167	158	168	163	161	166	162	155	149	147	149	149	145	142	140	139	141	135	136	132	131.4	126.7
60-64	236	220	223	222	229	234	239	231	235	231	215	216.4	216.5	212.6	203.6	204.8	199.5	197.1	195.7	199.7	191	189.4	179.7	186.7	180.6
65-69	288	281	276	290	278	288	295	275	284	280	276	264	259	258	252	250	249	245	245	242	239	238	230	226	220.1
70-79	353	356	354	354	361	370	363	366	367	368	357	344	349	350	335	335	338	329	333	340	333	330	326	318.5	313.3
80+	525	543	529	482	511	519	517	486	520	521	474	477.4	481.4	479.7	471.3	473.5	471.9	480.3	485	503.2	488.5	489.9	487.7	479.5	468.7
Male	171	172	170	172	176	185	189	186	192	192	187	183	186	187	183	186	186	183	186	190	186	189	186	186.9	185.2
Female	167.1	160.6	163.5	171.5	176.3	182.4	183.7	182.9	190.5	191.6	190.2	190.7	194.3	197.3	194.6	197.7	197.4	200.5	202.4	209	204.8	206	204.3	202	197
White	174	175	176	181	187	195	197	196	204	203	203	202.8	208.9	210.6	205.9	209.4	210	210	213.6	217.6	213.9	214.9	214.3	212.9	209.2
Black	157.1	147.7	144.2	152.5	152.4	161	166.8	163.9	168.2	173	163.7	160.3	159.8	162.8	162	165	163	162	162	170	165	169	165	165.9	163.9
Other race	168.7	167.2	176.8	158.2	159.8	169.1	170.4	160.3	160.9	151.8	149.4	133	134.4	129.5	143	144	158	162	163	170	166	160	156	153.9	150.4
†Hispanic																	155	164	168	168	162	164	161	162.5	157.6
†Non-Hispanic																	195	194	197	203	199	201	199	198.1	195.2
Diabetes	271	265	265	277	265	275	277	269	266	256	254	248.4	249.3	248	241	242	244	240	245	252	242	245	238	236.3	230.4
Hypertension	142	153	163	172	182	197	194	203	213	215	212	212	213	218	216	216	210	213	214	218	214	216	215	213.1	212
Glomerulonephritis	83	87	94	94	96	99	105	106	115.3	112.3	113.9	108.9	109.5	107.5	105.7	110.2	108.4	106.9	105.2	105.7	104.6	102.7	102	101	95.2
Other cause	196.4	187.2	177.9	178.9	182.9	185	185.7	172	175.2	177.9	161.4	155.7	160.4	157.5	152.7	154.8	158	156.3	155.7	159.9	159.3	159.5	160.6	161.5	160
<2 years	198	195	195	202	215	227	227	228	236	233	228	226	232	230	224	222	226	225	232	241	235	238	235	235.1	229.1
2-5 yrears	146.9	148	150	154	153	161	171	166	175	179	175	175	182	189	189	196	194	194	195	201	198	200	201	198.9	195.8
5+ years	97	107	110	124	124	127	131	130	131	134	132	128	125	128	128	137	135	138	138	140	139	141	139	140.1	140.8
All	169	167	167	172	176	184	187	185	191	192	188	187	190	192	188	191	192	191	194	199	195	196	194	193.6	190.4

Table H.2
Annual mortality rates per 1,000 patient years at risk: ESRD patients
from day 91 to one year + 90 days, by age, gender, race, ethnicity, primary diagnosis, & vintage

ADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	61	63	50	53	51	58	59	52	49	44	42	48	49	44	39	37	34	35	33	34	31	31	30	36.6	32.4
20-44	102	100	96	92	92	90	91	86	87	84	82	79	79	77	74	74	73	71	70	70	67	67	67	66.2	64.4
45-64	187	184	182	192	188	195	195	190	190	183	173	166	164	161	155	153	149	146	143	145	140	139	135	134.5	130.8
65-74	290.1	304	306	319	312	322	321	313	314	307	297	285.9	284.1	279.7	270.8	271.5	270	265	264.6	266.4	259.2	256.7	251.2	246.5	239.5
75+	409.4	399.6	413.3	422.5	439.7	442.3	434.3	424.1	436.9	436.5	420.2	408.3	404	407.6	398.2	403.4	406.7	401.5	404.6	418	407.9	410.4	404.4	399.2	394.1
Male	244	244	244	250	248	256	254	248	251	245	233	222	220	217	210	209	208	202	201	203	196	196	192	189.9	186.2
Female	222	222	223	231	230	235	231	226	228	223	215	210	210	210	204	204	201	199	199	203	198	197	194	191.4	185.7
White	252	253	256	264	263	271	267	261	262	255	244	237.2	236.4	235.3	226.4	224	219.9	214.8	213.9	216.2	208.6	207	203	199.8	194.3
Black	198	194	188	202	198	203	206	201	206	208	198	191	188	188	184	186	185	182	181	186	182	185	181	181.1	178.4
Other race	223	225	238	229	231	237	227	214	211	197	188	168	160	152	154	156	162	163	164	170	165	161	155	151	146.9
Diabetes	304	301	300	313	309	315	311	303	303	290	277	268	264	262	253	251	250	243	243	248	238	237	230	226	219.1
Hypertension	180	185	189	195	199	210	205	204	209	209	203	198	198	199	194	194	189	187	186	189	184	184	182	179.5	176.6
Glomerulonephritis	154.9	151.6	160.6	160.1	159.8	163.9	164	159.9	170	166.6	166.1	157.7	157.8	152.5	147.7	149.3	148.9	144.3	142.8	143.7	140	139.3	137.2	135.1	129.5
Other cause	220	221	218	221	222	227	230	218	218	218	202	193.2	193.2	192.1	187	185	186	183	181	185	182	183	181	181.8	180
<2 years	267.2	258.9	256.4	258.9	260.4	268.2	263.2	255.3	257.9	250.4	237.4	227.7	227.3	223.1	215	209	207	201	202	206	200	200	197	195.7	190.8
2-5 years	228	226.2	227	231.7	225.5	231.9	233.4	226.9	230.7	226.5	217.2	211.7	212.1	214.3	210	212	209	204	202	204	197	195	192	188.2	183.6
5+ years	176.3	191.5	197.9	216.2	214.2	219.4	217.6	215.9	217.6	213.4	208.1	201.2	195.5	193.6	189	193.9	193.2	193.7	193.6	195.4	190	190	185.3	182.3	178.5
All	234	233	234	241	239	246	244	238	240	235	225	217	215	214	207	206	204	200	200	203	197	196	193	190.3	185.8

Reference cohort is 2001 prevalent ESRD patients. Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Patient age is determined on January 1 of each calendar year.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage. Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage. Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Table H.2.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: ESRD patients, by primary diagnosis, adjusted*period prevalent patients, 2002 ESRD patients as reference*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	51.3	53.6	51.1	59.4	59.8	55.8	52.1	46.1	43.6	51.1	51.9
20-29	.	.	68.2	69	62.5	64.3	64.7	61.6	65.6	66.2	62	59.7	57.9
30-39	.	.	98.4	91.2	92.9	91.2	92.1	87.7	86.6	82.4	80	76.1	75.4
40-49	.	.	130.8	131.2	124.7	125.5	128.1	121	118.3	111.4	109.3	106.1	106.8
50-59	.	.	175.4	186	180.5	188.7	184.4	179.5	181.9	175.2	166.4	157.7	154.6
60-64	.	.	245.5	247.9	248.9	256	257	249	249	240	226	219	218
65-69	.	.	300	311	303	308	310	295	298	288	281	268	262
70-79	.	.	371	373	381	393	383	377	379	373	361	347	348
80+	.	.	543	516	528	534	528	496	525	522	479	469	474
0-19	.	.	52	53	53	61	63	55	53	47	46	54	57
20-44	.	.	96	90.9	92	91	91	87	88	84	82	79	79
45-64	.	.	186.9	195	191	199	198	192	192	184	174	168	166
65-74	.	.	321	329.3	324.5	333.6	331.6	321.2	322	313.6	303.2	291.2	290.2
75+	.	.	443	447	467	469	454	441	452	450	432	419	416
Male	.	.	259	258	258	266	263	255	258	251	238	227	225
Female	.	.	235	239	238	242	236	230	231	226	217	211	212
White	.	.	275	275	274	281	275	267	269	260	248	240	240
Black	.	.	197	206	200	208	211	206	210	211	201	192	190
Native American	.	.	174	174	197	206	211	219	210	202	217	186	185
Asian	.	.	244	218	247	247	224	208	202	175	174	159	155
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	248	249.2	248.2	254.7	250.7	243.2	245.7	239.1	228.1	219.5	218.6

	1993	1994	1995	1996	1997	1998	1999	2000	2002	2002	2003	2004
0-19	44.1	40.1	37.5	35.2	34.7	32.2	32.8	28.4	29.1	29.9	36	31.9
20-29	55.5	53.4	50.8	51	49	46.7	47.7	43.7	47.5	48.8	51.8	51
30-39	74	70.8	70.7	68.4	65.7	63.6	64.9	61.7	62.4	61.6	59.1	56.6
40-49	102.3	98.8	98	95.4	94.3	92.6	92.3	88.7	89.3	88.9	87.9	85
50-59	152.9	149.6	147.7	144.1	139.8	137.4	139	133	132.4	129.7	128.1	124.2
60-64	215	205	203	198	193	190	192	184	182	175	176	172
65-69	256	248	247	244	238	237	236	229	228	221	218	211
70-79	345	332	330	331	322	322	329	322	320	315	309	302
80+	475	462	467	469	469	475	498	481	483	476	470	460
0-19	46	41	39	36	36	33	34	30	30	31	37	33
20-44	77	74	74	72	70	69	69	66	66	66	65	63
45-64	162	155.8	153.6	149.4	145.4	143	144.6	138.7	138.5	134.7	134	130.4
65-74	285.2	275.2	274.1	272	265.9	265.2	266.9	259.6	257.2	251.9	247.1	239.9
75+	418	407	409	412	404	408	422	412	414	409	403	398
Male	221	213	211	209	203	202	204	197	196	192	190	186
Female	211	205	204	201	199	198	202	196	196	193	190	184
White	238	228	225	220	215	214	216	208	207	202	199	193
Black	190	185	187	186	183	181	187	183	185	182	181	178
Native American	183	178.2	165.9	175.5	174.9	180.4	181.3	194.5	189.5	187.2	176.1	169.9
Asian	141	146	151	157	155	154	154	144	141	137	135	133
†Hispanic				154.8	163.6	167.5	167.8	162.4	164.4	160.9	162.5	157.59
†Non-Hispanic				195.3	194.3	196.6	202.5	198.9	200.7	198.9	198.1	195.2
All	216.1	209.2	207.8	205.2	201	200	203	196.4	195.9	192.2	189.5	184.7

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.2.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: ESRD patients, by primary diagnosis, adjusted*period prevalent patients, 2002 ESRD patients as reference*

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	93.9	100	92	108	111	102	93	80	78	91	91
20-29	.	.	119.9	123	108	112	114	109	114	112	106	101	96
30-39	.	.	164.3	152.8	153.3	150.7	153.2	143.7	139.8	127.2	122.9	116.8	112.8
40-49	.	.	210	215	198	198	205	190	181	168	164	161	158
50-59	.	.	261	281	268	280	273	267	269	251	235	219	217
60-64	.	.	347	352	348	356	350	339	332	316	296	285	287
65-69	.	.	396	416	396	397	402	381	378	363	352	334	324
70-79	.	.	460	461	466	482	459	455	449	438	421	406	407
80+	.	.	616	589	603	601	595	552	605	595	514	510	519
0-19	.	.	94	97	96	112	118	99	94	82	83	97	101
20-44	.	.	163	154	155	153	155	143	143	133	129	124	120
45-64	.	.	274	291	279	288	287	279	274	257	242	231	230
65-74	.	.	420.2	434.3	417.1	423.9	420.6	403.9	398.1	384.8	370.9	354.4	352
75+	.	.	508	521	553	551	511	507	523	509	479	469	462
Male	.	.	339.4	339.3	334.5	343	338.1	324.8	326.7	310.3	291.3	276.5	274.6
Female	.	.	318.3	326.8	318.4	323.4	317.3	305.8	304	292.2	276.4	271	269.7
White	.	.	371	374	372	379	371	358	354	336	317	307	305
Black	.	.	229	248	229	240	243	234	243	241	225	216	214
Native American	.	.	209	202	272	249	266	244	254	252	249	230	222
Asian	.	.	465	378	367	350	315	292	300	254	235	207	213
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	329	333	327	333	328	316	316	302	284.4	273.8	272.2

	1993	1994	1995	1996	1997	1998	1999	2000	2002	2002	2003	2004
0-19	74	67	62	59	58	54	55	47	49	51	60	52
20-29	90.4	88.7	82.8	84.4	81.5	77.4	79	70.3	78.7	82	86.8	82.4
30-39	107.6	100.2	100.3	100	97.2	96.4	98.5	93.3	94.6	94.5	89.3	84.7
40-49	149	142	140	136	135	133	134	126	125	123	120	116
50-59	215	206	202	198	191	188	189	181	181	172	169	164
60-64	277	265	259	252	241	241	243	232	227	216	216	211
65-69	316	303	301	298	294	292	291	280	278	267	262	254
70-79	408.5	393	385	382.8	366.7	368.1	376.7	365.9	364.5	357.4	349.9	340.1
80+	524	510	515	529	522	522	557	531	532	515	506	485
0-19	74.8	68	63.4	59.4	59.8	56	57.9	50.9	50.6	50.9	60.7	54.6
20-44	115	110	109	109	107	106	105	101	100	101	97	94
45-64	223	212	208	202	196	195	197	188	187	178	176	171
65-74	348	333.6	328.6	324.7	316.7	316	318.2	307.8	305.1	296.2	290.2	279.5
75+	467	455.6	455.3	462	445	446	466	449	451	441	434	424
Male	270.9	259.5	255.2	255	245	243	248	238	237	229	225	218
Female	266.3	256.6	253.3	248	245	245	250	239	238	232	229	220
White	303	289	283	279	268	266	271	257	255	247	242	233
Black	210	202	205	203	202	201	209	204	207	202	200	194
Native American	206.7	200.4	193	206	203	205	207	209	200	202	193	183
Asian	182.3	188.9	193	210	208	207	201	186	178	174	169	168
†Hispanic				210.1	221.4	230.2	222.1	213.9	215.3	206	207.8	202.68
†Non-Hispanic				248.4	243	247	257	247.6	250.6	244.3	242.2	236.21
All	268.5	257.8	254.1	251.8	244.5	243.7	248.8	238.2	237.6	230.5	226.3	218.6

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.2.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: ESRD patients, by primary diagnosis, adjusted*period prevalent patients, 2002 ESRD patients as reference*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	20	21	23	26	26	25	24	23	22	27	30
20-29	.	.	31	31	32	32	33	31	34	37	33	34	33
30-39	.	.	50	46	52	50	51	48	50	51	51	48	51
40-49	.	.	75.5	73.7	76.7	76.4	77.8	76	77	74.3	74.6	73.8	80.2
50-59	.	.	118.4	125.9	127.4	136.3	136.1	132.5	137	136.7	135.2	134	130.8
60-64	.	.	182.5	193.2	193.6	210.5	210.6	209.9	207.1	210.8	203.5	204.2	195.5
65-69	.	.	250.3	264.7	260.7	268.9	268.4	259	271.6	261.6	259.4	250.6	250.4
70-79	.	.	324.2	329.9	349.5	371.3	351.6	360.4	364.5	365.5	352.6	339.1	340
80+	.	.	540.7	515.4	520.3	531.5	512.7	500.2	522.2	527	503.2	479.8	474.8
0-19	.	.	20.9	22.8	24.7	27.8	27.5	26.3	26.3	24.9	24.3	30.6	35.7
20-44	.	.	49	47.9	50.4	48.3	50.7	49.9	52.2	52.5	52.3	50.8	54.1
45-64	.	.	134.9	140.5	143.9	155.1	154.7	152	153.1	153.3	150.3	149.9	146.2
65-74	.	.	267.6	277	284.8	299.9	293.1	293.5	301	297.5	289.5	278.8	282
75+	.	.	426.8	431.2	447.1	457.9	434.3	435.5	447.9	450.3	434.6	419.8	417.1
Male	.	.	204	205.3	209.3	223	221.9	218.5	224.3	222.3	214.3	206.3	204.8
Female	.	.	186.5	189.6	197.5	202.3	190.8	192.3	196.6	196.7	193.3	190.3	191.5
White	.	.	217.9	218.7	222.7	234.4	225.6	224.5	232	230.4	223.5	219.2	220.9
Black	.	.	160.9	163.3	163.1	169	171.7	168.3	171.9	175.5	170.3	166	162.9
Native American	.	.	99.5	158.3	138.4	191.4	182.1	214.7	167	162.6	198.7	141	162.6
Asian	.	.	101.6	120.8	201	190.9	174.2	170.9	157.7	139.4	145.3	127.2	110.2
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	195.8	198.1	203.7	213.2	207.4	206	211.3	210.2	204.1	198.7	198.3

	1993	1994	1995	1996	1997	1998	1999	2000	2002	2002	2003	2004
0-19	27	24	23	20	19	17	18	16	17	17	21	19.5
20-29	34	31	31	27	27	26	27	26	28	28	30	32.4
30-39	52	52	52	46	42	40	42	41	42	41	40	39.2
40-49	78.1	75.6	73.3	69.5	69.6	70.2	69.1	68.9	69.7	70.8	71.6	69.1
50-59	126.4	129.1	127.8	123.1	117.3	115.4	120.4	113.2	114.9	115.5	113.6	111
60-64	202.6	190.8	195.7	184	179.5	177.7	181.4	176.3	172.7	164.6	167.8	164
65-69	246	244.5	243.9	239.7	232.6	231.2	230.8	219.7	222.5	218.7	212.6	208.2
70-79	342.8	328.5	328.3	323.2	322	321.3	327.3	319.9	317.7	313.6	307.2	303
80+	477.7	474.4	468.5	463.9	467	471.9	482.2	475.6	477.8	473	466.9	460
0-19	30.8	27.7	26	22	20.9	19.6	19.9	18.5	18.6	18.8	23.5	21.6
20-44	57.2	55.4	52.8	46.9	45.9	46.3	45.9	44.7	45.3	46.6	46.9	46.1
45-64	144.7	140.4	141.3	134.3	129.5	127.3	130.7	125.7	125.7	122.9	123.4	120.4
65-74	279.3	272.9	274.1	268.9	265.3	262.5	266.1	256.4	255	251	244.8	243
75+	424.8	414.6	410.1	407	407	410.9	418.5	413.6	416	413	407.1	401.4
Male	200.6	195.4	193.7	188	184.9	185.2	187.1	180	179.6	177	175.9	173.4
Female	195.8	192.4	192.5	187.3	185.2	182.6	186.9	183.5	184.6	182.8	179.2	175
White	219.6	212.8	209.8	202.1	198.7	196.5	198.8	192.5	192.1	189.8	187	182.5
Black	164.9	163	165.9	164.3	162.1	162.9	169	164.4	166.3	164.9	163.7	162.7
Native American	175.2	183.9	152.3	167.8	162.2	178.4	175.3	204.7	216.2	200.1	179.7	174
Asian	112	115.4	129.7	123.7	124.5	126.8	125.5	118.9	116.8	112.7	114.4	112.3
†Hispanic				158.8	166.4	158.7	159.6	158	158.3	162.9	158	151.15
†Non-Hispanic				213.8	216	217.9	222.3	219.1	221	220	218.3	217.86
All	198.3	194	193.1	187.6	184.7	184	186.9	181.6	182	179.7	177.3	173.9

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.2.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: ESRD patients, by primary diagnosis, adjusted*period prevalent patients, 2002 ESRD patients as reference*

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	15.5	17.2	16.5	20.2	21.4	22.3	22.1	20.7	20.5	22.9	21.6
20-29	.	.	23.9	25	23.2	24.4	26.6	27.6	29.9	29.5	29.9	26.2	25.2
30-39	.	.	39	37.1	38.5	37.8	40.6	45.8	47.9	48	45.8	44.1	41.4
40-49	.	.	59.8	58.7	59.1	59.3	62.9	62.9	63.3	59.7	61.7	60.9	59.9
50-59	.	.	97.5	103.6	99	103.8	102.1	100.8	104.8	106	107	100.1	94.9
60-64	.	.	147.8	152.1	154.6	157	160.4	156.4	170.5	161.6	153.2	148.3	154.4
65-69	.	.	208.3	215.4	210.3	216.6	211.6	205	218.2	209.2	210.4	200.3	190.1
70-79	.	.	287.3	281.5	293.1	294.6	294.7	283.6	303.4	300.3	297.7	279	283.3
80+	.	.	466.2	430.2	446.6	444.1	431.2	410.9	444.6	427.4	428.1	412.4	424.9
0-19	.	.	16.4	18.1	18.9	21.5	21.4	21.9	22.4	21.4	21.1	24.1	22.6
20-44	.	.	36	35.8	35.5	35.6	39.6	43.2	45.1	44	43.5	41.8	39.7
45-64	.	.	101.8	106	105.8	108.5	108.3	106.1	111.7	109.3	107.9	103.3	102.1
65-74	.	.	227.6	229.4	227.6	236.2	233.3	226.2	243.5	237.6	234.6	223.3	219.8
75+	.	.	358.2	357	372.7	378.2	375.3	357	378.2	367.8	377	352.3	359.2
Male	.	.	176.2	175	180.5	181.8	183.7	178.5	187.9	181.9	178.1	170.4	168.4
Female	.	.	153.2	150.4	148.1	152.8	148.5	145.4	156.3	154.7	157	148.3	150.1
White	.	.	175.5	172.5	169.9	170.4	168.1	162.2	172.4	171.5	167	159.6	161.9
Black	.	.	146.3	151.9	158.3	157.6	160.5	161.6	176.5	168.7	170.8	161.8	156.8
Native American	.	.	190.6	117.7	116.4	173	174	179.6	164	166.1	210.4	197.1	171.4
Asian	.	.	108.9	91.2	129.8	173.5	162.8	136.2	118.3	97.6	116.3	106.5	114
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	165.3	163.5	165.1	168	167.1	162.6	172.6	168.9	168.4	160	159.8
	1993	1994	1995	1996	1997	1998	1999	2000	2002	2002	2003	2004	
0-19	20.2	17.5	16.3	15	16.1	14.2	14.1	12.3	12.7	12.9	16.3	14.1	
20-29	25.8	22.4	23.2	21.4	23.3	21.4	22.2	20.4	22.3	22.2	25	23.8	
30-39	41.2	37.1	36.3	34.1	36.2	33.1	33.4	32	32.1	31.2	29.7	28.5	
40-49	58.8	58.4	59.3	58.7	58.1	56.3	53.9	53.7	54.9	56.1	55.1	51.7	
50-59	97	94.9	95.7	91.7	90.8	87.1	88.9	84.3	84.6	83.7	83.8	79.3	
60-64	146	140.5	136.9	140.3	137.2	134	131.3	123.5	125.8	122.9	119.2	119.6	
65-69	186.9	181.8	182.5	182.4	172.9	172.9	167.7	165.3	163.6	155	155	143.9	
70-79	266.6	256	261.1	266.2	254.5	255.1	255.6	250.9	245.1	241.7	234.2	222.8	
80+	410.5	397.9	410.7	405	400.8	405.3	426.4	411.4	410.6	408	392.7	388.1	
0-19	20.5	18	16.5	15.6	16.6	14.6	14.3	12.4	12.8	13.2	16.4	14.4	
20-44	40.1	37.2	37.7	35.6	37.1	34.8	34.7	33.7	34.2	34.5	34.2	32.5	
45-64	99.4	96.5	95.4	94.3	92.8	89.4	88.4	84.5	85.8	85	84.2	81.5	
65-74	209.2	203.7	205	209	202.3	201.2	194.7	191.4	187.4	183.6	179.5	167.5	
75+	348	334.8	348.2	346.6	328.6	334.4	349.4	341.7	340.5	334	323.8	315.9	
Male	164	156.2	158.3	155.4	151	147	148.4	142.4	141.5	138.9	136.4	131.7	
Female	143.8	142	143.4	145.6	142.5	144	144.3	142.5	140.5	138.1	134.7	128.4	
White	157.4	153.7	154.1	153.6	149.8	149.2	149.6	146.6	141.7	139	135.7	129.2	
Black	152.2	145	147.8	147.5	142.1	140.2	142.8	136	142.4	140.8	137.8	135	
Native American	133	113.8	141.1	145.5	138.4	149.7	138.4	156.9	129.9	136.5	133.5	123.9	
Asian	104.6	100.6	108.2	107.4	111.8	101.7	100.2	92.5	101.6	95.6	93	84.6	
†Hispanic				66.23	64.08	68.07	68.07	62.07	71.91	63.79	66.91	65.18	
†Non-Hispanic				112.8	111.7	109.5	110.1	109.9	106.6	106.9	105.5	99.12	
All	154.5	149.6	151.6	151	147.1	145.7	146.3	142.3	141.1	138.6	135.7	130.1	

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.2.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: ESRD patients, by primary diagnosis, adjusted*period prevalent patients, 2002 ESRD patients as reference*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	43.2	42.3	40.8	47.1	43	41.4	40.4	37	32.3	34.6	37.1
20-29	.	.	59.7	57.1	52	53.1	49.5	46.1	52.3	55.7	51.2	50.4	53
30-39	.	.	89.5	82.8	81	81.8	78.6	75.7	73.5	77.2	74.5	70.2	73.9
40-49	.	.	116.4	112.4	108.1	113.2	108.4	104.5	105.7	102.9	97.3	91.6	94.2
50-59	.	.	159.3	160.9	160.1	164.2	159.1	151.6	153.5	154.7	141.5	131.7	127.5
60-64	.	.	225.7	218.3	224.3	228	234.9	225.3	225.2	216.7	198.5	185.8	183.7
65-69	.	.	273.7	276.4	276.9	286.9	289.5	269.9	263.9	268.5	250.9	235.7	234.5
70-79	.	.	343.9	349.9	349.9	353.9	360.7	344.2	341.8	337.9	324.8	314.2	313.1
80+	.	.	496.6	472.6	486	503.9	522.7	486.6	473	476.5	436.9	439.1	437.4
0-19	.	.	42.5	41.5	40.7	46.2	42.4	41.2	39.5	35.7	31.1	32.9	35
20-44	.	.	87.1	80.2	79.1	78.5	73.8	71.5	71.4	74.9	72.8	70	73.3
45-64	.	.	168.7	168.3	167.9	173.4	172.9	165	167.2	163.2	148.2	137.9	134.9
65-74	.	.	293.4	299.2	298.2	305.4	307.6	292.6	288.5	285.6	269	259.5	258.9
75+	.	.	424	418.4	422.5	432	448.9	417.3	408.7	419.6	398.8	388.4	386
Male	.	.	240.6	237.2	236.1	242.4	241.3	232.6	229.2	230.3	213.4	204.4	202
Female	.	.	201	200.3	201.6	206.9	210.5	195.6	196.9	194.2	185.4	178.3	180.3
White	.	.	227.4	224.3	220.9	223.7	223.8	210.3	211	205.4	194.9	186.7	186.6
Black	.	.	219.5	220.8	226.1	234.8	241.1	230.9	226.2	236.5	215.9	205.4	205.9
Native American	.	.	211.3	169.8	181.5	159.2	163	196	211.9	179.8	178.9	158.8	146.2
Asian	.	.	118.6	111	129.3	165.8	147.4	133.2	118.7	114.7	122.1	138	130.9
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	221.9	219.7	219.8	225.9	227.3	215.5	214.6	213.9	200.8	192.7	192.8

	1993	1994	1995	1996	1997	1998	1999	2000	2002	2002	2003	2004
0-19	35.1	32	31.3	30.5	29.3	27.4	27.5	24.4	23.9	24.1	29.3	25.5
20-29	49.2	49.1	46.1	47.9	42.2	40.6	40.6	38.6	40	40.4	41.6	42.4
30-39	76.2	79.7	79	79.3	70.7	65.1	65	60.9	60.8	58.7	57.8	55
40-49	94.2	91.8	91.7	91.3	86.3	81.7	82.8	78.2	81.9	82.1	81.7	80.3
50-59	128.1	124.4	123.8	121.7	119	116.6	118.2	117	111.6	111.6	113.1	110.2
60-64	185.4	178	172.1	173.1	173.3	167.9	171.6	167.1	168.4	164.7	167	163.4
65-69	228.1	220.9	220.3	218.7	213	210.2	210.4	210	209.5	206.4	209.3	205.1
70-79	310.7	303.3	299.6	307.5	305.4	306.2	313	312.2	314.7	310.2	306.2	307.4
80+	446.5	423.1	433.4	432	444.4	457.9	475.5	468.9	471.4	473	474.4	476.8
0-19	33.9	30.8	30.5	29.6	28.4	26.5	27	24	23.7	23.7	29	25.1
20-44	73.8	74.2	74.6	75.5	67.9	64	64.1	59.8	60.6	59.5	59.8	59.3
45-64	134.8	130.7	127	125.7	123.3	118.9	120.9	118.4	117.7	117.3	118	114.7
65-74	254	245.8	245.4	246.4	240.3	239.6	242.9	243.7	243	239.5	237.6	233.5
75+	391.1	380.5	382.7	388.5	395.2	402.8	414.1	407.6	412.8	411.2	413.8	419.7
Male	201.8	197.5	196.1	197.2	191.8	188	188.6	186	187.6	186	187.1	184.4
Female	179.2	173	173.1	173.4	173.3	173.9	180.5	176.7	176.1	174.8	174.3	173.4
White	182.6	176.1	175.8	175	174.7	175.5	176.3	173.1	173.4	173.8	173	170.5
Black	212	207.2	206.5	211.2	203.3	197.3	203.3	201.9	202.4	197.5	199.6	199.2
Native American	174	162.6	144.9	142.3	156.8	148	160.9	168.2	161.4	166.5	165.6	166.5
Asian	126.1	133	124.3	126.1	118.9	117.6	135.6	127.3	129.9	123.6	119.6	122.4
†Hispanic				104.4	107.6	101.4	118.1	110	100.6	105.5	108.3	96.58
†Non-Hispanic				162.7	160.8	160.8	164	164.2	165.6	166.4	167.2	166.8
All	191.9	186.5	185.4	186.1	183.2	181.8	185.4	182.3	182.5	181	181.3	179.6

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.2.2 (supplement)

Annual deaths per 1,000 patients: ESRD patients, by primary diagnosis*period prevalent patients*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	35.5	37.8	37.2	43.1	43.3	40.7	39.3	34.9	33.4	39.1	40.6
20-29	.	.	51.6	51.9	48.3	49.7	49.6	47.8	51.7	52.1	49.1	47.4	46.8
30-39	.	.	75.7	70.7	74.2	73.1	73.5	71.1	70.9	67.8	66.5	63.6	63.4
40-49	.	.	100.4	100.4	98.4	98.6	100.5	96	95.4	90.3	89.6	87.3	88.5
50-59	.	.	130.7	140.1	139.7	145.5	142.4	139.6	142.1	137.2	131.5	125.9	124.5
60-64	.	.	179.1	180.9	186.1	192.2	192.7	188	189	182.9	173.7	169.2	169.7
65-69	.	.	214.7	220.6	220.8	224.5	225.7	216.2	219.9	213.4	209.7	201.7	199.4
70-79	.	.	252	253.1	265.5	273.3	268.3	267.3	270.2	265.8	259.7	251.6	253.5
80+	.	.	320.5	320.6	343	341.4	345.6	330.7	349.2	346.2	323.7	321.3	327.5
0-19	.	.	35.4	37.3	38.3	44	44.8	40.4	40.1	35.8	35.2	41.6	44.3
20-44	.	.	73	70	72.5	71.6	72	69.4	71.1	68.6	67.7	65.3	65.6
45-64	.	.	139.1	145.8	146.6	152.2	151.9	148.3	149.3	143.6	137.6	133.2	132.6
65-74	.	.	225.3	230.1	233.5	239.9	238.3	232.9	235.7	229.8	224.2	216.9	217.7
75+	.	.	288.5	290.8	310.4	311.6	308.4	303	312	308.6	300.2	293.6	294.4
Male	.	.	183.6	185	189.5	194.7	193.8	189.5	193.3	188.2	180.3	173.5	173.6
Female	.	.	168.3	172.9	177.2	180.5	177.3	174.4	176.7	172.5	167.9	164.3	165.8
White	.	.	190.4	193.4	198.1	202.6	199	195.2	197.5	191.3	184.8	180.2	181.5
Black	.	.	153.1	156.9	158.2	163.2	165.9	162.7	167.7	168	160.8	155.4	154.9
Native American	.	.	131	131.4	149.8	156.1	165	168.6	164.5	155.1	165.9	148.3	149.1
Asian	.	.	136.5	143.3	166.3	167.6	160.5	153.5	151.7	135.6	135	124.8	124.2
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	176.5	179.3	183.7	188	186.3	182.6	185.7	180.8	174.5	169.3	169.9
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	36.5	32.3	30.2	28.1	28.6	26.4	26.8	23.4	24	24.3	29.1	25.8	
20-29	45.6	43.9	42	42.1	41.1	39.2	40.1	37.1	40.1	41	43.6	43	
30-39	62.3	59.8	60.4	58.7	56.7	55.3	56.5	54.2	54.8	54	52	49.9	
40-49	85.4	83.1	83	81.1	80.5	79.5	79.5	77	77.5	77.1	76.6	74.3	
50-59	124.1	121.9	121.5	119.1	115.8	114.3	115.9	112	111.6	109.4	108.7	106.1	
60-64	168.1	161.9	161.2	157.9	154.4	153.1	155.1	150.1	148.9	143.6	145	142.9	
65-69	196.7	191.6	192.6	190.8	186.7	186.4	186.1	182.4	181.8	177	175.2	171.1	
70-79	253.4	246.1	246.9	246.8	241.2	242.4	247.1	244	243.3	239.9	237.2	233.4	
80+	331.5	324.6	328.7	328.2	326.5	330.1	342.8	336.4	339.3	334.4	332.8	328.3	
0-19	38.1	33.7	31.6	28.9	29.3	27.4	28	25.1	25	25	30.1	27.1	
20-44	64.6	62.6	62.6	61.6	60.4	59.6	59.6	57.5	57.4	57.8	57	55.5	
45-64	130.7	126.6	126	123.1	120.1	118.6	120.3	116.5	116.3	113.3	113.4	111	
65-74	215.8	209.7	211	209.4	205.3	205.4	207.1	203.4	202.1	198.3	195.9	191.5	
75+	297.9	291.9	294.8	295.8	290.1	293.3	301.9	297.8	300	296.2	294.8	292.1	
Male	172.3	167.7	167.6	166.1	161.8	161	162.7	159	158.7	155.5	155	152.5	
Female	166.1	162.4	163.1	161	159.4	159.4	162.4	159.1	159.2	156.8	155.4	151.9	
White	181.2	175.6	174.8	171.8	168	167.7	169.2	165	164.2	161.1	159.7	156	
Black	155.6	151.9	154	153.4	151	150.2	155.1	152.7	154.8	151.5	151.7	150.1	
Native American	151.1	146.7	138.9	146.5	146.8	149.4	150.8	159.5	155.9	154.7	148.7	143.5	
Asian	115.1	119.4	124.1	128	127.2	127	127.3	120.9	119.1	116	115.2	114.2	
†Hispanic				123.9	132.4	135.9	136.6	131.8	135.4	132.6	134.3	131.04	
†Non-Hispanic				157.3	156.4	158.3	163	161.3	162.3	160.9	161	159.26	
All	169.2	165.1	165.4	163.6	160.5	160.2	162.5	158.9	158.9	156	155	152.1	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.2.2 (supplement-continued)

Annual deaths per 1,000 patients: ESRD patients, by primary diagnosis*period prevalent patients*

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	60.5	65.4	62.8	73.5	75.7	69.8	66.5	57.3	55.9	65.6	67.3
20-29	.	.	85	86.4	77.6	81	81.9	78.9	84.2	82.6	78.4	74.9	73.6
30-39	.	.	118.3	110.3	114.7	114	115.5	110	108.6	99.6	97.5	93.5	91.1
40-49	.	.	149.5	153.1	147.1	144.9	150.6	141.7	138.2	129	127.7	125.4	125
50-59	.	.	173.4	194.4	189.6	198.7	194.3	192.3	195.1	182.7	173	163.8	164.9
60-64	.	.	230.2	234.9	237.4	246.1	243	237.9	235.1	224.2	212.2	206.4	210
65-69	.	.	261.4	272.9	265.8	266.8	269.7	258.1	260.2	250.1	245.8	235.2	231.1
70-79	.	.	286.1	289.9	300.7	313.4	300.9	303.4	302.5	295.4	286.3	278.7	281.8
80+	.	.	315.5	340.1	367.4	358	365.7	346.1	377.7	370.8	330.3	333.4	344.1
0-19	.	.	59.4	63.1	64.5	75.1	79.1	68.4	67.6	58.9	59.3	70.5	74.4
20-44	.	.	114.4	110	113.8	113.7	114.7	108.4	110.3	102.9	101.4	97.8	96.2
45-64	.	.	185.5	200	196.4	203.6	203.5	199.7	198.5	186.9	178.2	172	173.7
65-74	.	.	270.2	280.7	277.1	282.5	279.8	273.1	272.5	264.1	257.1	247.8	248.9
75+	.	.	303.6	316.7	341.1	341.6	328.7	328.7	341.6	331.4	316.7	313.3	312.6
Male	.	.	220.3	226.6	229.5	234.4	233.3	227.3	231.1	220.1	209.6	201.3	202.8
Female	.	.	205.9	218.3	220.1	225	222.1	217.6	217.6	209.9	201.5	199	199.7
White	.	.	236.1	244.2	249.6	255.1	251.2	246.3	244.8	233.1	223.6	218.6	220
Black	.	.	166.9	178.5	172.2	178.9	181.7	176.4	185.6	183.2	172.9	167.4	168.1
Native American	.	.	147.5	143.6	195.2	177.9	194.7	180.3	187.2	184.2	185.5	176.3	173.5
Asian	.	.	231.8	235.7	236.8	218.8	209.4	200.9	212.2	185	171.8	154.6	162.4
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	213.6	222.5	224.9	229.7	228.1	222.8	224.8	215.2	205.8	200.2	201.3

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	58.8	52	47.7	44.7	46.2	42.5	43.3	36.7	38.3	39.2	46.2	40.4
20-29	71.6	69.9	65.4	66.2	65.9	62.2	63.6	56.7	62.9	65.2	69.4	65.8
30-39	87	81.4	82.7	83.1	81.1	81	82.7	79.1	80.1	79.8	75.6	71.8
40-49	118.9	114.3	113.9	111.1	111	109.6	110.6	105.5	104.6	102.7	100.9	97.7
50-59	164.6	158.8	157.8	154.7	150.1	148.7	150.1	144.9	145.1	139.1	137.4	134.7
60-64	204.6	197.5	194.9	190.2	183.2	184.1	186.8	180.6	177.5	170.2	171.8	169.2
65-69	229.1	221.9	222.8	220.5	218.7	218.1	218.5	213.2	212.4	205.8	203.8	199.1
70-79	285.2	277.4	274.4	273	263	266.2	272.4	267.8	267.6	263.5	260.8	255.7
80+	352.1	345.3	347.7	351.4	345.9	346.9	367	357.1	360.7	351.2	349.4	339
0-19	60.6	53.2	49.7	45.6	46.7	43.9	45.1	39.9	39.8	39.8	47.2	42.4
20-44	92.3	88.7	89.2	89.9	88.8	88.1	88	84.7	83.9	84.5	82.1	79.1
45-64	170.2	163.1	161.6	157.8	153.5	153.2	155.8	150.1	149.6	143.6	143	140.3
65-74	248.9	241.5	240.1	237.5	232.9	234	236.4	231.6	230.5	225.3	222.7	216.8
75+	319.2	313.3	315	317.6	307	309.7	322.3	314.8	317.3	311.6	310.1	305
Male	201.9	195.4	193.4	193	186.3	186.2	189.8	184.7	184.7	179.5	177.9	173.6
Female	199.7	193.9	193.5	189.9	187.7	188.6	193.1	186.9	187	182.9	181.8	176.8
White	220.8	212.8	209.9	207.1	200	200.2	203.5	196.2	195.4	190.3	188.2	183.3
Black	166.9	161.7	164.5	162.5	162.2	162.2	168.7	166.4	169.1	164.8	164.5	160.9
Native American	163.8	161.1	155.4	165.3	163.9	165.8	168.1	169.9	163.9	165.9	160.3	153
Asian	141.8	147.5	151.5	163	161.8	163.4	159.3	149.7	144.1	141.9	140.2	139.7
†Hispanic				159.3	170.5	178.1	172.8	166.7	170.8	164.2	165.9	163.4
†Non-Hispanic				190.4	186.8	190.5	198.2	192.9	194.7	190.8	190.5	186.9
All	200.6	194.5	193.3	191.5	186.6	187.1	191.2	185.6	185.7	181	179.4	174.9

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.2.2 (supplement-continued)

Annual deaths per 1,000 patients: ESRD patients, by primary diagnosis*period prevalent patients*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	14.1	16	17.5	20.2	19.8	19.4	19.3	18.4	17.4	21.9	24.2
20-29	.	.	22.3	24.3	25.6	26.5	26.2	25.8	27.7	30.4	27.1	28.1	27.1
30-39	.	.	38.3	37.2	42.2	40.8	41.1	40.3	42.2	42.5	43.6	41.2	43.7
40-49	.	.	60.9	59	60.9	61.9	63.4	62.6	64	62	62.7	62.3	67.8
50-59	.	.	96.5	99.6	105.1	110.5	110.6	107.3	111.1	110.6	109.4	109.2	106.9
60-64	.	.	140.6	146.1	151.5	162.2	162.2	161.2	160.7	162.6	158	158.4	153
65-69	.	.	181.1	190.2	195.1	199.6	199.2	192.3	201	194.4	193.9	189.4	189.8
70-79	.	.	216.5	225.9	245.5	259.1	247.8	254.2	258.2	257.2	250.8	243.3	245.1
80+	.	.	326.4	319	335.4	336.1	333.9	328.6	344.4	345.2	334	323.5	323.2
0-19	.	.	15.8	17.5	19.3	21.4	20.9	20.5	20.9	19.7	19.6	24.3	28.4
20-44	.	.	39.5	38.7	41.5	39.7	41.5	41.3	43.5	43.8	44.1	42.8	45.7
45-64	.	.	105	109.6	115.1	123.1	123.1	121.2	122.8	122.5	120.7	120.7	118.3
65-74	.	.	187.8	196.5	207.5	218.3	213.6	213.8	219.6	216.8	212.9	206.9	209.7
75+	.	.	273.9	279.5	299.3	303.3	294	296.3	305.7	304.8	297.1	290.3	290.5
Male	.	.	147.4	150.6	157.9	166.9	167.3	164.8	169.7	167.5	163	159	159
Female	.	.	136.8	140.7	151.2	153.6	147	148.9	152.9	152.4	151	148.9	150.3
White	.	.	154.7	158.6	166.8	173	168	167.4	173.2	171.3	167.8	165.8	167.9
Black	.	.	127.8	126.7	132	135.5	138.2	136.6	140.2	142.6	139.5	136.7	134.8
Native American	.	.	76.1	121	102.5	142.6	145.5	161.9	135.7	124.1	150.1	113.7	133.9
Asian	.	.	63.3	80.1	132.8	137.3	131.5	130.3	121.2	110.4	114.4	102.1	90.7
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	142.6	146.1	154.7	160.6	157.8	157.1	161.8	160.3	157.1	154.2	154.7
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	23	19.8	19.2	16.3	15.5	14.5	14.7	13.9	14.1	14	17.1	16.3	
20-29	27.9	25.5	25.8	23.2	22.5	22	22.8	22.8	24	23.9	25.7	28.2	
30-39	44.4	44.5	45.6	40.2	36.8	35.2	36.7	36.1	37.3	35.8	35.5	34.9	
40-49	66.6	64.5	63.1	60.4	60.8	61.6	60.5	60.8	61.3	62.1	62.9	61	
50-59	104.9	106.6	107.1	104.3	100.2	98.7	102.6	97.2	98.2	98.4	97.2	95.4	
60-64	159.7	150.9	156.7	148.9	145.6	144.4	147	143.2	140.7	135.1	138	135.3	
65-69	188.1	187.3	190.5	188	183.2	181.7	181.9	174.7	176.5	172.8	169.3	166.2	
70-79	248.6	240.6	245	242.6	241.5	240.3	243.9	240.7	239.5	235.6	232.9	230.8	
80+	326.7	327.4	329.3	327.5	327	328.9	334.5	331.7	333.5	330.2	328	325.2	
0-19	26.9	23.2	21.7	18.2	17.5	16.6	16.6	15.7	15.8	15.8	19.6	18.1	
20-44	48.4	47.3	45.5	41	40.3	40.7	40.3	39.5	39.9	41	41.3	40.8	
45-64	118.2	114.8	117.2	112.5	108.9	107.5	110.1	106.6	106.4	104.1	104.8	102.7	
65-74	209.4	205.7	210.5	207.4	205.1	202.6	205.4	199.5	198.7	195	192	190.9	
75+	296.8	292.8	295	294.5	292.8	294.4	298.3	297.1	298.7	295.9	293.6	291.2	
Male	157.3	154.2	155.7	152	149.5	149.7	151.1	146.7	146.6	144.4	144.4	142.8	
Female	154	152.2	154.6	151.7	149.9	147.6	150.4	148.5	149.2	147.4	145.4	142.9	
White	168.1	164	164.8	159.9	157.2	155.5	156.9	153.2	153	150.8	149.7	146.8	
Black	137.1	135.8	139.9	139.3	137.4	137.8	142.5	139.5	140.8	139.3	138.7	138.5	
Native American	146.6	149	128.8	142.7	138.8	146.1	144.8	163.9	171.3	161.6	150.2	143.3	
Asian	93.2	96	108.4	103.8	104.6	106.3	105	101.3	100.4	96.7	98.5	97.3	
†Hispanic				128.1	136.2	130.3	131.3	128.6	130.9	134.2	130.7	126	
†Non-Hispanic				172.1	172.6	173.9	177.1	175.9	176.9	175.6	175	175.5	
All	155.7	153.2	155.1	151.8	149.4	148.7	150.6	147.5	147.8	145.8	144.8	142.7	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.2.2 (supplement-continued)

Annual deaths per 1,000 patients: ESRD patients, by primary diagnosis*period prevalent patients*

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	13.1	13.8	13.8	16.3	17	17.5	17.7	16.7	16.7	18.6	17.8
20-29	.	.	20.6	20.9	19.9	20.7	22.6	23.2	25.3	24.9	25.5	22.4	21.7
30-39	.	.	31.3	31.1	31.9	32.1	34.8	39.5	41.5	41.6	39.8	38.4	36.3
40-49	.	.	49.1	48.6	50	50.2	53.6	53.8	54.5	51.7	53.7	53.2	52.6
50-59	.	.	85.7	86.2	84.2	88	85.9	85.4	88.8	89.9	91.2	86	82.2
60-64	.	.	117.5	123.4	129.6	129.2	131.8	129.2	140.7	133.9	127.5	123.7	129.3
65-69	.	.	165.1	168.7	167.2	173.1	168.1	164.4	175.3	168.5	170.4	162.7	156.1
70-79	.	.	207.4	206.3	219.1	220.2	222.5	216.5	233.6	229.5	228.8	216.5	220.3
80+	.	.	289.9	289.9	305.8	306	304.8	300	320.3	303.7	305.9	298.2	311
0-19	.	.	13.1	14.4	15	17	16.9	17.2	18	17.2	17.1	19.6	18.5
20-44	.	.	30.3	30	30.2	30.3	33.8	36.9	38.7	37.8	37.6	36.2	34.7
45-64	.	.	84.4	87.5	88.9	91.2	90.9	89.6	94.5	92.7	92	88.6	88.1
65-74	.	.	175.1	175.9	178.6	184.6	182.6	178.5	193.4	188.1	186.8	178.8	177.3
75+	.	.	251	251.4	268.4	270.2	273.4	265	279.2	270.1	278.5	262.7	269.7
Male	.	.	135.8	137	144.3	145	147.1	145.2	153.1	147.5	145.6	140.3	139.6
Female	.	.	121	121.1	121.1	125.6	123.4	121.8	131	129.4	131.3	125	127.3
White	.	.	136.5	135.8	136.7	137.1	135.6	132.3	141	139.8	136.7	131.5	134.1
Black	.	.	114.9	122.6	130	129.9	133.5	136.3	148.6	141	144.2	137.6	134.5
Native American	.	.	161.2	99.2	103.8	148.2	150.8	148.8	136.3	139.8	168.8	163.1	145.2
Asian	.	.	77.5	62.9	93.5	125.3	127.9	111.7	98	81.2	96.9	88.8	97.6
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	128.9	129.6	133.3	135.7	135.8	133.9	142.4	138.9	139	133.1	133.8
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	17.6	14.9	13.7	12.5	13.8	12.1	12	10.6	10.9	11	13.8	11.9	
20-29	21.9	19.2	20.2	18.8	20.3	18.8	19.7	18.3	20	19.8	22.4	21.3	
30-39	36.5	33	32.4	30.7	32.5	29.8	30.3	29.3	29.4	28.5	27.2	26.2	
40-49	51.7	52	52.9	52.3	52	50.6	48.6	48.8	49.8	50.9	50.1	47.2	
50-59	84.4	82.6	83.2	80.1	79.7	76.9	78.8	75.3	75.5	74.6	75.1	71.4	
60-64	122.8	118.8	115.9	118.9	117	114.9	112.9	107.6	109.5	107	104.1	104.9	
65-69	153.2	150.4	152.2	151.7	144.7	144.6	140.9	140.2	139.5	132.2	132.5	124.6	
70-79	209.8	202	208.4	211.1	202.8	204.8	205.5	204.1	200	197.4	193.5	185.4	
80+	305.1	293.8	303.6	300.7	298.5	301.7	313.7	307.6	309.2	305.9	298.3	296.8	
0-19	18	15.4	13.9	13	14.1	12.5	12.1	10.7	11	11.3	13.8	12.2	
20-44	35.1	32.8	33.5	31.8	33.2	31.3	31.3	30.7	31.1	31.4	31.2	29.7	
45-64	86	83.9	83.1	82.5	81.3	78.8	78.3	75.4	76.5	75.7	75.3	73.1	
65-74	169.7	166.2	168.8	171.3	166.4	165.9	161.5	160.6	157.9	154.6	152	143.4	
75+	264.9	253.9	265.6	263.4	252.7	258	267.4	264.1	264.7	259.6	255	250.8	
Male	137.2	131.1	133.7	131.6	128.3	126	127.1	123.6	123.1	120.9	119.5	115.8	
Female	122.8	121.4	123.1	124.4	122.4	123.6	123.7	123.5	122.3	120	118.1	113.8	
White	131.6	128.7	129.9	129.2	126.6	126.7	126.8	125.9	122.4	120	118.1	113.1	
Black	130.7	125	128.2	128	124	122.7	125	120.3	125.6	124	122.4	120.9	
Native American	116	100.3	121.8	126.5	119.9	128.1	120.2	133	114.2	120.2	119.9	112.8	
Asian	91.6	87.1	94.4	93.5	97.5	89.5	88.5	83.3	91.1	86.1	84.7	77.3	
†Hispanic				57.33	56.02	59.85	60.44	55.3	63.97	56.57	59.82	58.08	
†Non-Hispanic				96.89	96.38	94.77	95.59	96.02	93.25	93.39	92.61	87.5	
All	130.4	126.6	129	128.4	125.6	124.9	125.3	123.4	122.8	120.5	119	114.9	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.2.2 (supplement-continued)

Annual deaths per 1,000 patients: ESRD patients, by primary diagnosis*period prevalent patients*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	33.2	32.8	32.4	36.5	33.3	32.3	32.2	29.5	26.2	28.1	30.2
20-29	.	.	52.2	47.4	44.7	44.3	41	38.5	44	46.6	43.1	42.7	45.1
30-39	.	.	78.6	70.8	72.5	70.3	66.9	64.1	62.5	65.1	63	59.4	62.2
40-49	.	.	97	93.7	92.3	95.8	90.7	87.5	88.9	86.4	82.2	77.4	79.3
50-59	.	.	130.1	132.3	133.9	136.7	131.6	126.2	127.8	128.4	118.6	111.1	107.8
60-64	.	.	181.3	174.6	182.2	184	188.6	181.4	180.9	174.8	161.8	152.8	151.1
65-69	.	.	215	211	217.4	223.1	225	211	208.3	211.1	199.5	189.2	189.1
70-79	.	.	263.4	254.7	261.9	263.2	268.5	257.4	257.7	254.8	247.9	240.6	241
80+	.	.	349.7	316.6	341.2	347.8	361.6	339.1	333.7	336.3	314.3	316.5	315.6
0-19	.	.	32.5	32	31.7	35.6	32.8	32.1	31.5	28.5	25.3	26.8	28.7
20-44	.	.	72.8	67.1	67.3	66.2	62	60.3	60.5	63.1	61.4	59.2	61.7
45-64	.	.	139	138.1	140.7	143.8	142.2	136.1	137.9	134.6	123.7	115.8	113.5
65-74	.	.	229.6	225	231.3	234.5	236.5	225.6	224.7	222.2	211.7	205.2	205.7
75+	.	.	308.3	290.6	303.1	308.2	320.1	300.3	296.7	303.7	292.7	286.8	285.5
Male	.	.	191.1	183.3	187.8	190.4	189.6	183.4	182.3	182.9	171.6	165	163.5
Female	.	.	166	160.8	166.6	169.4	171.6	160.7	162	159.9	154.3	149	150.8
White	.	.	182	175.1	177.5	177.9	177.6	167.9	169.3	165.2	158.6	152.3	152.6
Black	.	.	181.7	175.6	185.3	190.9	195.2	187.1	184.7	192	177.2	170.5	170.8
Native American	.	.	163.8	135.6	153.7	132.4	134.5	161.5	174.5	148.2	145.2	132.6	120.4
Asian	.	.	90.1	87.4	101.4	126.8	117.5	109.4	98.9	97.7	104.7	113.8	109.5
†Hispanic	.	.											
†Non-Hispanic	.	.											
All	.	.	179.1	172.6	177.7	180.7	181.5	173	173.2	172.6	163.9	157.9	158.3

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	27.6	25.6	25.3	25	24.2	23	23	20.6	20.3	20.3	24.5	21.5
20-29	42	41.8	39.1	40.7	36.2	35.1	35.1	33.8	34.9	35.3	36.4	37.2
30-39	64.7	66.7	65.9	65.9	60.3	56.5	56.7	53.4	53.3	51.5	51.2	48.9
40-49	79.5	77.5	77.7	77.2	73.6	70.1	71.2	68.1	71.2	71.2	71.2	70.2
50-59	107.3	104.9	104.7	103.6	100.6	98.9	100.2	100.1	95.8	95.6	96.9	94.7
60-64	150.9	146.9	142.6	143.5	143	139	142	139	139.5	136.2	138.6	136
65-69	183	178.7	177.7	176.4	170.4	169.5	169.6	170.3	169.9	166.6	168.7	166
70-79	239.6	234.2	230.4	234.3	232.2	232.9	237.3	238.2	239.4	236.5	234.6	235.2
80+	322.9	309.3	313.3	310.4	315.1	323.3	332.3	329.9	332.8	332.4	334.8	336.4
0-19	26.4	24.6	24.7	24.2	23.6	22.3	22.6	20.3	20.1	20	24.3	21.2
20-44	62.3	62.2	62.5	63.2	57.6	55.2	55.4	52.3	53	52.1	52.6	52.3
45-64	112.7	110.1	107.3	106.5	104.4	100.9	102.5	101.2	100.5	100	100.7	98.3
65-74	201.5	195.7	195.1	195	189.7	189.8	192.1	193.4	192.9	189.8	188.7	186
75+	289.5	283.5	282	284.5	287	291.8	297.8	295.8	299	297.7	300.7	304
Male	163.6	161	159.3	159.9	155.1	152.7	152.8	152	153.4	151.8	153.3	151.3
Female	149.4	144.8	144.7	144.1	143.4	143.8	148.8	146.5	145.8	144.6	144.5	143.9
White	149.9	145.3	144.8	143.5	142.7	143.2	143.6	142.1	142.4	142.3	142.3	140.2
Black	174.2	170.9	169.6	173	165.9	162.2	166.7	166.5	166.7	162.7	164.6	164.8
Native American	145.8	138.7	126.2	121.5	134.4	128.2	138	142.4	137.3	139.2	140.4	141.6
Asian	105.9	112.1	105.1	108.4	103.1	102.5	115.7	110.8	111.7	106.7	104.4	106.3
†Hispanic				88.13	91.7	86.4	100.2	92.54	86.62	90.72	93.46	84.02
†Non-Hispanic				134.3	132.6	132.8	135.2	136.4	137	137.5	138.4	138.03
All	157.5	153.7	152.5	152.6	149.7	148.9	151.3	149.8	150	148.6	149.3	148

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.2.3 (supplement)

ESRD patients: counts of total deaths, by primary diagnosis

period prevalent patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	76	72	59	73	75	91	82	87	91	81	77	98	100
20-29	257	300	287	321	325	358	376	378	458	469	435	451	481
30-39	585	628	765	756	954	1,024	1,153	1,294	1,341	1,422	1,498	1,494	1,624
40-49	914	1,001	1,024	1,148	1,303	1,465	1,668	1,758	1,954	2,093	2,406	2,572	2,931
50-59	1,700	1,856	2,107	2,490	2,613	3,008	3,101	3,301	3,675	3,858	4,019	4,269	4,661
60-64	1,193	1,270	1,536	1,740	2,104	2,418	2,699	2,799	3,121	3,332	3,421	3,773	4,124
65-69	1,322	1,458	1,597	1,933	2,264	2,641	3,037	3,236	3,826	4,196	4,669	5,033	5,529
70-79	1,559	1,871	2,246	2,740	3,492	4,156	4,661	5,417	6,153	6,954	7,766	8,721	10,308
80+	293	391	491	602	884	1,076	1,338	1,557	2,010	2,383	2,652	3,256	3,873
0-19	76	72	59	73	75	91	82	87	91	81	77	98	100
20-44	1,223	1,372	1,507	1,552	1,879	2,010	2,239	2,473	2,671	2,846	3,044	3,142	3,437
45-64	3,426	3,683	4,212	4,903	5,420	6,263	6,758	7,057	7,878	8,328	8,735	9,417	10,384
65-74	2,266	2,638	2,966	3,592	4,313	5,069	5,694	6,358	7,291	8,041	8,909	9,870	11,356
75+	908	1,082	1,368	1,683	2,327	2,804	3,342	3,852	4,698	5,492	6,178	7,140	8,354
Male	4,402	5,020	5,648	6,507	7,677	8,935	10,029	10,896	12,362	13,443	14,452	15,734	17,801
Female	3,497	3,827	4,464	5,296	6,337	7,302	8,086	8,931	10,267	11,345	12,491	13,933	15,830
White	5,759	6,517	7,422	8,515	10,089	11,533	12,706	13,905	15,868	17,091	18,676	20,640	23,480
Black	2,114	2,301	2,600	3,170	3,727	4,424	5,042	5,507	6,282	7,165	7,556	8,298	9,283
Native American	19	22	53	60	95	121	159	179	208	241	294	286	324
Asian	*	*	37	58	103	159	208	236	271	291	417	443	544
†Hispanic													
†Non-Hispanic													
All	7,899	8,847	10,112	11,803	14,014	16,237	18,115	19,827	22,629	24,788	26,943	29,667	33,631
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	83	79	80	83	84	73	79	67	71	74	100	65	
20-29	457	442	426	445	420	390	420	384	433	427	446	422	
30-39	1,730	1,736	1,803	1,796	1,744	1,645	1,759	1,687	1,733	1,720	1,613	1,557	
40-49	3,024	3,268	3,579	3,735	3,960	4,005	4,205	4,296	4,578	4,672	4,707	4,667	
50-59	5,162	5,656	5,982	6,282	6,681	7,174	7,926	8,226	8,838	9,271	9,724	9,821	
60-64	4,328	4,427	4,716	4,924	5,153	5,429	5,856	5,981	6,237	6,258	6,932	7,104	
65-69	6,068	6,457	6,902	7,273	7,588	7,965	8,218	8,530	8,850	8,948	9,197	9,325	
70-79	11,585	12,371	13,773	15,122	16,140	17,700	19,228	19,982	20,615	21,194	21,594	21,804	
80+	4,530	5,121	5,825	6,571	7,458	8,382	9,630	10,355	11,446	12,522	13,429	14,076	
0-19	83	79	80	83	84	73	79	67	71	74	100	65	
20-44	3,563	3,632	3,787	3,826	3,804	3,738	3,868	3,817	3,903	4,009	3,879	3,781	
45-64	11,138	11,897	12,719	13,356	14,154	14,905	16,298	16,757	17,916	18,339	19,543	19,790	
65-74	12,503	13,375	14,620	15,473	16,220	17,246	18,109	18,654	19,148	19,546	19,886	20,025	
75+	9,680	10,574	11,880	13,493	14,966	16,801	18,967	20,213	21,763	23,118	24,334	25,180	
Male	19,404	20,799	22,628	24,352	25,626	27,620	29,977	31,231	33,103	34,431	36,220	37,187	
Female	17,563	18,758	20,458	21,879	23,602	25,143	27,344	28,277	29,698	30,655	31,522	31,654	
White	25,564	26,999	29,229	31,274	33,317	35,765	38,429	40,074	42,159	43,924	45,502	46,078	
Black	10,423	11,326	12,462	13,278	14,099	15,051	16,711	17,120	18,217	18,543	19,485	19,913	
Native American	382	425	436	541	543	576	652	743	704	776	782	766	
Asian	598	807	959	1,138	1,269	1,371	1,529	1,571	1,721	1,843	1,973	2,084	
†Hispanic				3,530	4,274	4,812	5,304	5,738	12,638	6,613	7,137	7,307	
†Non-Hispanic				42,886	45,282	48,363	52,524	54,322	114,020	58,973	61,147	62,072	
All	36,967	39,557	43,086	46,231	49,228	52,763	57,321	59,508	62,801	65,086	67,742	68,841	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.2.3 (supplement)

ESRD patients: counts of total deaths, by primary diagnosis

period prevalent patients

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	58	53	73	102	87	112	124	128	151	146	132	143	143
30-39	152	201	277	281	403	449	513	548	571	561	631	641	671
40-49	166	219	271	370	428	484	657	688	766	890	1,055	1,171	1,311
50-59	256	310	459	709	766	1,023	1,130	1,311	1,486	1,559	1,751	1,958	2,291
60-64	175	215	322	435	581	753	880	1,006	1,156	1,306	1,467	1,696	1,996
65-69	149	212	276	415	498	675	871	1,029	1,244	1,473	1,794	2,011	2,307
70-79	98	143	281	375	532	742	892	1,167	1,363	1,662	2,099	2,567	3,213
80+	*	19	15	45	77	78	125	156	253	288	312	496	627
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	282	362	475	541	712	801	924	987	1,095	1,116	1,236	1,310	1,389
45-64	525	636	927	1,356	1,553	2,020	2,380	2,694	3,035	3,346	3,800	4,299	5,023
65-74	215	314	471	680	855	1,169	1,453	1,788	2,105	2,536	3,108	3,611	4,383
75+	37	60	101	155	252	326	435	564	755	887	1,097	1,463	1,764
Male	579	718	981	1,330	1,642	2,098	2,551	2,915	3,433	3,736	4,345	4,908	5,829
Female	480	655	994	1,404	1,732	2,220	2,650	3,122	3,562	4,152	4,899	5,782	6,737
White	805	1,026	1,484	1,985	2,479	3,106	3,658	4,274	4,842	5,428	6,441	7,471	8,711
Black	249	339	447	688	794	1,088	1,351	1,555	1,879	2,158	2,434	2,816	3,354
Native American	*	*	29	35	64	71	110	109	144	175	198	213	237
Asian	*	*	15	26	37	53	82	99	130	127	171	190	264
†Hispanic													
†Non-Hispanic													
All	1,059	1,373	1,975	2,734	3,374	4,318	5,201	6,037	6,995	7,888	9,244	10,690	12,566
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	141	137	109	124	120	90	103	75	104	99	100	79	
30-39	674	673	736	755	713	708	721	684	698	703	604	592	
40-49	1,332	1,450	1,596	1,691	1,843	1,861	1,967	1,929	2,011	2,078	2,055	2,043	
50-59	2,587	2,812	3,096	3,351	3,608	3,973	4,396	4,596	4,997	5,010	5,287	5,470	
60-64	2,070	2,206	2,435	2,644	2,766	3,095	3,400	3,479	3,621	3,670	4,075	4,148	
65-69	2,713	2,908	3,271	3,598	3,974	4,227	4,496	4,735	4,984	5,034	5,192	5,281	
70-79	3,862	4,355	4,952	5,829	6,427	7,455	8,417	8,797	9,446	9,839	10,133	10,285	
80+	782	918	1,129	1,417	1,672	2,053	2,580	2,708	3,206	3,574	3,972	4,143	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	1,376	1,443	1,506	1,575	1,560	1,536	1,551	1,525	1,514	1,584	1,455	1,409	
45-64	5,428	5,835	6,466	6,990	7,490	8,191	9,036	9,238	9,917	9,976	10,666	10,923	
65-74	5,149	5,641	6,344	7,101	7,779	8,546	9,230	9,636	10,117	10,342	10,622	10,644	
75+	2,208	2,540	3,008	3,743	4,294	5,189	6,263	6,604	7,519	8,105	8,675	9,065	
Male	6,543	7,123	8,011	9,185	9,729	11,050	12,414	12,964	14,053	14,642	15,543	16,158	
Female	7,621	8,341	9,316	10,224	11,396	12,412	13,669	14,040	15,017	15,366	15,876	15,885	
White	9,913	10,581	11,739	13,117	14,031	15,661	17,345	17,833	19,294	19,997	20,854	21,299	
Black	3,734	4,193	4,802	5,285	6,022	6,643	7,450	7,805	8,364	8,432	8,944	9,054	
Native American	266	314	330	410	412	439	502	552	532	590	587	577	
Asian	251	376	456	597	660	719	786	814	880	989	1,034	1,113	
†Hispanic				2,139	2,700	3,167	3,427	3,759	8,378	4,340	4,719	4,938	
†Non-Hispanic				17,386	18,652	20,581	22,990	23,615	50,472	25,992	27,039	27,425	
All	14,164	15,464	17,327	19,409	21,125	23,462	26,083	27,004	29,070	30,008	31,419	32,043	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.2.3 (supplement)

ESRD patients: counts of total deaths, by primary diagnosis

period prevalent patients

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	14	13	21	25	28	29	31	31	49	30	48	41
30-39	42	44	72	67	101	112	121	145	175	192	216	205	245
40-49	112	129	165	163	194	248	285	302	354	365	428	457	569
50-59	242	276	322	423	492	568	622	649	742	794	867	956	980
60-64	161	193	269	360	418	551	609	650	715	834	861	964	952
65-69	186	270	341	462	582	668	808	882	1,109	1,180	1,369	1,522	1,636
70-79	236	374	543	782	1,105	1,416	1,508	2,020	2,310	2,670	2,975	3,399	3,988
80+	49	74	164	209	297	411	523	675	916	1,111	1,319	1,593	1,936
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	88	116	157	153	205	223	260	299	350	397	428	452	552
45-64	478	540	684	881	1,025	1,284	1,406	1,478	1,667	1,837	1,974	2,178	2,235
65-74	332	506	670	904	1,185	1,463	1,620	1,964	2,322	2,575	2,878	3,233	3,698
75+	139	212	378	549	799	1,032	1,219	1,613	2,013	2,386	2,785	3,281	3,862
Male	608	791	1,112	1,457	1,848	2,367	2,706	3,100	3,666	4,130	4,633	5,190	5,903
Female	429	584	779	1,034	1,369	1,636	1,800	2,260	2,688	3,067	3,436	3,963	4,452
White	556	800	1,165	1,530	1,973	2,467	2,683	3,297	3,959	4,393	4,996	5,757	6,647
Black	479	574	718	944	1,213	1,488	1,768	1,987	2,319	2,717	2,940	3,276	3,567
Native American	*	*	*	*	*	14	13	18	14	18	31	18	36
Asian	*	*	*	*	25	34	42	58	62	69	102	102	105
†Hispanic													
†Non-Hispanic													
All	1,037	1,375	1,891	2,491	3,217	4,003	4,506	5,360	6,354	7,197	8,069	9,153	10,355
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	51	43	46	45	39	42	37	44	40	45	39	55	
30-39	261	282	285	228	226	217	245	243	266	260	256	255	
40-49	580	629	705	706	755	794	799	867	907	902	963	966	
50-59	1,034	1,265	1,262	1,271	1,311	1,403	1,525	1,482	1,664	1,842	1,859	1,882	
60-64	1,108	1,083	1,183	1,077	1,148	1,142	1,181	1,217	1,248	1,203	1,378	1,379	
65-69	1,759	1,928	1,946	1,923	1,913	1,962	1,981	1,899	1,992	2,017	1,995	2,073	
70-79	4,580	4,742	5,251	5,372	5,657	5,888	6,220	6,386	6,390	6,506	6,579	6,642	
80+	2,353	2,708	2,936	3,229	3,602	3,911	4,393	4,840	5,220	5,658	6,041	6,401	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	586	596	598	541	568	588	581	609	625	660	648	652	
45-64	2,448	2,706	2,883	2,786	2,911	3,010	3,206	3,244	3,500	3,592	3,847	3,885	
65-74	4,068	4,346	4,643	4,565	4,654	4,708	4,895	4,772	4,815	4,917	4,902	5,066	
75+	4,624	5,032	5,490	5,959	6,518	7,053	7,699	8,353	8,787	9,264	9,713	10,050	
Male	6,487	7,138	7,661	7,693	8,218	8,633	9,133	9,365	9,835	10,248	10,765	11,130	
Female	5,245	5,549	5,959	6,160	6,434	6,727	7,248	7,617	7,894	8,185	8,347	8,528	
White	7,381	7,916	8,421	8,512	9,131	9,471	9,986	10,514	10,917	11,388	11,800	12,054	
Black	4,149	4,528	4,910	5,036	5,179	5,497	5,973	5,995	6,312	6,523	6,725	6,988	
Native American	44	44	34	49	43	51	53	75	76	66	66	73	
Asian	158	199	255	256	299	341	369	398	424	456	521	543	
†Hispanic				677	782	809	890	987	2,148	1,183	1,231	1,244	
†Non-Hispanic				13,206	13,915	14,614	15,570	16,076	33,474	17,331	17,968	18,517	
All	11,732	12,687	13,620	13,853	14,652	15,360	16,381	16,982	17,729	18,433	19,112	19,658	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Table H.2.3 (supplement)

ESRD patients: counts of total deaths, by primary diagnosis

period prevalent patients

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	14	17	15	23	22	25	19	19	25	27	26	31	24
20-29	43	56	60	62	64	74	93	87	97	94	116	80	96
30-39	79	94	103	122	129	157	208	286	282	289	286	296	274
40-49	110	121	136	144	191	204	257	274	297	313	381	405	423
50-59	183	211	279	290	300	361	363	391	438	493	508	492	506
60-64	131	138	156	225	270	265	313	321	403	369	366	394	434
65-69	127	156	202	228	264	320	343	392	491	469	517	539	523
70-79	146	198	263	316	425	490	594	640	789	851	915	935	1,135
80+	20	28	61	76	94	142	166	205	249	273	342	383	449
0-19	14	17	15	23	22	25	19	19	25	27	26	31	24
20-44	175	207	234	250	287	317	430	508	523	534	588	587	568
45-64	371	413	500	593	667	744	804	851	994	1,024	1,069	1,080	1,165
65-74	213	281	358	413	502	596	680	755	946	946	1,004	1,051	1,152
75+	80	101	168	207	281	356	423	482	583	647	770	806	955
Male	516	621	802	936	1,116	1,269	1,499	1,653	1,893	1,966	2,121	2,212	2,351
Female	337	398	473	550	643	769	857	962	1,178	1,212	1,336	1,343	1,513
White	682	850	1,041	1,180	1,385	1,560	1,790	1,934	2,317	2,424	2,529	2,650	2,945
Black	167	166	221	295	350	424	505	623	699	689	820	814	810
Native American	*	*	*	*	*	19	16	20	18	23	33	26	23
Asian	*	*	*	*	17	35	45	38	37	42	75	65	86
†Hispanic													
†Non-Hispanic													
All	853	1,019	1,275	1,486	1,759	2,038	2,356	2,615	3,071	3,178	3,457	3,555	3,864
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	28	22	16	19	26	17	15	15	17	16	22	13	
20-29	109	77	109	88	109	92	111	88	111	97	125	94	
30-39	308	265	272	269	315	249	276	280	273	277	254	248	
40-49	462	521	548	570	600	594	567	648	665	677	668	616	
50-59	604	614	639	638	696	693	793	798	871	923	966	908	
60-64	376	410	405	453	459	454	444	435	483	474	471	543	
65-69	589	593	620	638	587	633	604	650	620	576	636	564	
70-79	1,104	1,192	1,347	1,437	1,410	1,522	1,588	1,620	1,502	1,541	1,503	1,369	
80+	457	522	635	664	739	799	861	875	888	945	943	967	
0-19	28	22	16	19	26	17	15	15	17	16	22	13	
20-44	648	592	650	607	693	607	639	654	657	669	655	597	
45-64	1,211	1,295	1,323	1,411	1,486	1,475	1,552	1,595	1,746	1,779	1,829	1,812	
65-74	1,181	1,240	1,334	1,408	1,360	1,419	1,370	1,465	1,365	1,378	1,362	1,243	
75+	969	1,067	1,268	1,331	1,376	1,535	1,683	1,680	1,645	1,684	1,720	1,657	
Male	2,519	2,559	2,841	2,902	2,996	3,026	3,192	3,236	3,275	3,342	3,379	3,255	
Female	1,518	1,657	1,750	1,874	1,945	2,027	2,067	2,173	2,155	2,184	2,209	2,067	
White	3,036	3,187	3,432	3,599	3,682	3,808	3,920	4,047	3,904	4,031	4,030	3,771	
Black	887	903	987	995	1,055	1,044	1,132	1,135	1,273	1,253	1,301	1,321	
Native American	24	26	40	41	37	46	43	56	42	55	59	47	
Asian	90	100	132	141	167	155	164	171	211	187	198	183	
†Hispanic				276	296	338	360	354	856	392	430	426	
†Non-Hispanic				4,512	4,664	4,732	4,928	5,080	10,068	5,168	5,201	4,931	
All	4,037	4,216	4,591	4,776	4,941	5,053	5,259	5,409	5,430	5,526	5,588	5,322	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.2.3 (supplement)

ESRD patients: counts of total deaths, by primary diagnosis

period prevalent patients

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	62	53	41	44	48	63	53	58	59	49	44	51	61
20-29	147	177	141	136	149	144	130	132	179	180	157	180	201
30-39	312	289	313	286	321	306	311	315	313	380	365	352	434
40-49	526	532	452	471	490	529	469	494	537	525	542	539	628
50-59	1,019	1,059	1,047	1,068	1,055	1,056	986	950	1,009	1,012	893	863	884
60-64	726	724	789	720	835	849	897	822	847	823	727	719	742
65-69	860	820	778	828	920	978	1,015	933	982	1,074	989	961	1,063
70-79	1,079	1,156	1,159	1,267	1,430	1,508	1,667	1,590	1,691	1,771	1,777	1,820	1,972
80+	219	270	251	272	416	445	524	521	592	711	679	784	861
0-19	62	53	41	44	48	63	53	58	59	49	44	51	61
20-44	678	687	641	608	675	669	625	679	703	799	792	793	928
45-64	2,052	2,094	2,101	2,073	2,175	2,215	2,168	2,034	2,182	2,121	1,892	1,860	1,961
65-74	1,506	1,537	1,467	1,595	1,771	1,841	1,941	1,851	1,918	1,984	1,919	1,975	2,123
75+	652	709	721	772	995	1,090	1,265	1,193	1,347	1,572	1,526	1,590	1,773
Male	2,699	2,890	2,753	2,784	3,071	3,201	3,273	3,228	3,370	3,611	3,353	3,424	3,718
Female	2,251	2,190	2,218	2,308	2,593	2,677	2,779	2,587	2,839	2,914	2,820	2,845	3,128
White	3,716	3,841	3,732	3,820	4,252	4,400	4,575	4,400	4,750	4,846	4,710	4,762	5,177
Black	1,219	1,222	1,214	1,243	1,370	1,424	1,418	1,342	1,385	1,601	1,362	1,392	1,552
Native American	*	13	13	13	18	17	20	32	32	25	32	29	28
Asian	*	*	12	16	24	37	39	41	42	53	69	86	89
†Hispanic													
†Non-Hispanic													
All	4,950	5,080	4,971	5,092	5,664	5,878	6,052	5,815	6,209	6,525	6,173	6,269	6,846
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	46	45	55	62	55	55	61	47	49	57	75	45	
20-29	156	185	162	188	152	166	169	177	178	186	182	194	
30-39	487	516	510	544	490	471	517	480	496	480	499	462	
40-49	650	668	730	768	762	756	872	852	995	1,015	1,021	1,042	
50-59	937	965	985	1,022	1,066	1,105	1,212	1,350	1,306	1,496	1,612	1,561	
60-64	774	728	693	750	780	738	831	850	885	911	1,008	1,034	
65-69	1,007	1,028	1,065	1,114	1,114	1,143	1,137	1,246	1,254	1,321	1,374	1,407	
70-79	2,039	2,082	2,223	2,484	2,646	2,835	3,003	3,179	3,277	3,308	3,379	3,508	
80+	938	973	1,125	1,261	1,445	1,619	1,796	1,932	2,132	2,345	2,473	2,565	
0-19	46	45	55	62	55	55	61	47	49	57	75	45	
20-44	953	1,001	1,033	1,103	983	1,007	1,097	1,029	1,107	1,096	1,121	1,123	
45-64	2,051	2,061	2,047	2,169	2,267	2,229	2,504	2,680	2,753	2,992	3,201	3,170	
65-74	2,105	2,148	2,299	2,399	2,427	2,573	2,614	2,781	2,851	2,909	3,000	3,072	
75+	1,879	1,935	2,114	2,460	2,778	3,024	3,322	3,576	3,812	4,065	4,226	4,408	
Male	3,855	3,979	4,115	4,572	4,683	4,911	5,238	5,666	5,940	6,199	6,533	6,644	
Female	3,179	3,211	3,433	3,621	3,827	3,977	4,360	4,447	4,632	4,920	5,090	5,174	
White	5,234	5,315	5,637	6,046	6,473	6,825	7,178	7,680	8,044	8,508	8,818	8,954	
Black	1,653	1,702	1,763	1,962	1,843	1,867	2,156	2,185	2,268	2,335	2,515	2,550	
Native American	48	41	32	41	51	40	54	60	54	65	70	69	
Asian	99	132	116	144	143	156	210	188	206	211	220	245	
†Hispanic				438	496	498	627	638	1,256	698	757	699	
†Non-Hispanic				7,782	8,051	8,436	9,036	9,551	20,006	10,482	10,939	11,199	
All	7,034	7,190	7,548	8,193	8,510	8,888	9,598	10,113	10,572	11,119	11,623	11,818	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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Years at risk

counts of total deaths & Years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	1,857	1,991	2,156	2,301	2,409	2,550	2,748	2,903	3,070	3,117	3,198	3,251	3,326
20-29	5,031	5,651	6,234	6,714	7,422	7,913	8,248	8,749	9,170	9,443	9,833	10,319	10,833
30-39	6,918	8,026	9,293	10,530	11,961	13,490	14,899	16,463	17,822	19,003	20,317	21,848	23,585
40-49	7,882	8,820	9,810	10,917	12,722	13,897	15,221	16,879	18,862	21,134	23,567	26,272	29,649
50-59	10,654	12,045	13,575	15,008	16,574	17,905	19,094	20,561	22,207	23,945	26,030	28,716	31,766
60-64	5,055	5,800	6,884	7,855	9,236	10,356	11,321	12,130	13,351	14,519	15,879	17,440	19,066
65-69	4,606	5,153	5,822	6,704	8,158	9,194	10,312	11,799	13,469	15,047	16,936	19,116	21,324
70-79	4,447	5,285	6,346	7,738	9,684	11,238	12,867	14,827	16,794	18,957	21,750	25,338	29,519
80+	561	718	930	1,244	1,732	2,068	2,596	3,207	3,864	4,590	5,590	6,815	8,039
0-19	1,857	1,991	2,156	2,301	2,409	2,550	2,748	2,903	3,070	3,117	3,198	3,251	3,326
20-44	15,711	17,911	20,190	22,482	25,535	28,112	30,532	33,619	36,377	38,929	41,941	45,616	49,351
45-64	19,830	22,430	25,606	28,540	32,380	35,448	38,250	41,163	45,036	49,116	53,685	58,980	65,547
65-74	7,598	8,679	9,958	11,737	14,307	16,206	18,203	20,808	23,557	26,363	29,853	34,245	38,988
75+	2,015	2,476	3,140	3,949	5,267	6,295	7,571	9,026	10,571	12,231	14,424	17,024	19,894
Male	25,911	29,460	33,497	37,955	43,820	48,495	53,172	58,543	64,492	70,276	77,410	86,027	95,571
Female	21,101	24,027	27,552	31,055	36,078	40,116	44,133	48,975	54,117	59,480	65,691	73,089	81,536
White	33,077	37,289	42,148	47,034	53,847	59,145	64,647	71,027	77,800	84,210	92,123	101,751	112,412
Black	13,459	15,574	18,028	20,780	24,451	27,484	30,231	33,594	37,346	41,426	46,168	51,753	58,104
Native American	210	278	366	482	628	735	871	1,012	1,177	1,363	1,579	1,793	2,075
Asian	265	346	507	713	973	1,247	1,555	1,885	2,286	2,756	3,231	3,820	4,516
†Hispanic													
†Non-Hispanic													
All	47,012	53,487	61,050	69,010	79,898	88,611	97,304	107,518	118,609	129,756	143,101	159,116	177,107

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	3,371	3,483	3,468	3,683	3,734	3,732	3,744	3,818	3,732	3,755	3,705	3,563
20-29	11,182	11,480	11,409	11,687	11,849	11,973	12,087	12,209	12,089	11,935	11,687	11,309
30-39	25,003	26,434	27,299	28,277	28,921	29,137	29,656	30,368	30,661	30,953	31,118	31,020
40-49	32,359	35,341	37,849	41,100	43,709	45,769	48,103	50,471	52,301	54,017	55,694	56,634
50-59	34,725	38,091	41,226	44,205	47,728	51,884	56,433	61,248	65,435	70,095	74,165	77,588
60-64	20,356	21,761	23,037	24,663	26,220	27,770	29,459	31,437	33,004	34,892	37,156	39,278
65-69	23,505	25,668	27,562	29,242	31,072	32,535	34,042	35,812	37,286	39,049	40,658	42,385
70-79	33,144	36,875	41,073	44,827	49,056	53,162	56,618	60,054	62,589	64,986	67,846	69,583
80+	9,446	10,868	12,303	13,912	15,542	17,278	19,127	21,241	23,400	25,676	28,015	30,036
0-19	3,371	3,483	3,468	3,683	3,734	3,732	3,744	3,818	3,732	3,755	3,705	3,563
20-44	52,205	55,078	56,618	59,189	60,972	62,352	63,937	65,758	66,405	67,128	67,389	67,119
45-64	71,421	78,029	84,202	90,743	97,455	104,180	111,802	119,975	127,085	134,765	142,431	148,712
65-74	43,469	47,939	52,245	55,789	59,517	62,996	66,052	69,277	72,005	74,899	77,828	80,581
75+	22,627	25,472	28,693	32,193	36,153	39,979	43,734	47,829	51,271	54,813	58,692	61,422
Male	104,087	113,536	121,722	130,685	139,895	148,800	157,937	168,033	176,119	185,105	193,789	200,752
Female	89,004	96,465	103,503	110,910	117,937	124,439	131,331	138,625	144,377	150,255	156,255	160,644
White	121,408	131,140	139,611	148,944	158,634	167,460	176,591	187,314	196,162	204,983	213,766	220,303
Black	64,026	70,089	75,770	81,682	87,265	92,843	98,542	103,909	107,861	112,692	117,456	121,521
Native American	2,333	2,582	2,853	3,120	3,346	3,588	3,899	4,142	4,341	4,559	4,725	4,862
Asian	5,325	6,191	6,992	7,849	8,586	9,348	10,236	11,293	12,132	13,127	14,097	14,710
†Hispanic				22,809	26,125	28,735	31,606	35,327	38,871	41,091	43,916	46,367
†Non-Hispanic				219,620	233,003	246,053	259,367	273,165	285,172	296,546	308,729	317,984
All	193,091	210,002	225,226	241,595	257,832	273,239	289,268	306,658	320,497	335,360	350,044	361,396

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & Years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	14	20	20	22	24	25	32	35	33	28	37	34	37
20-29	339	435	575	729	843	949	1,071	1,175	1,265	1,310	1,384	1,496	1,523
30-39	826	1,115	1,535	1,918	2,378	2,907	3,363	3,889	4,277	4,735	5,154	5,628	6,163
40-49	721	913	1,241	1,613	2,073	2,508	2,991	3,642	4,398	5,236	6,190	7,090	8,227
50-59	930	1,272	1,827	2,421	3,013	3,683	4,312	4,964	5,692	6,582	7,795	9,257	10,892
60-64	493	635	930	1,309	1,750	2,187	2,625	3,053	3,705	4,341	5,159	6,129	7,046
65-69	374	504	748	999	1,374	1,775	2,208	2,825	3,453	4,240	5,069	6,125	7,419
70-79	229	357	581	835	1,161	1,536	2,004	2,553	3,101	3,858	4,980	6,357	7,937
80+	17	25	37	75	110	156	216	312	396	472	678	935	1,172
0-19	14	20	20	22	24	25	32	35	33	28	37	34	37
20-44	1,523	2,000	2,709	3,431	4,268	5,127	5,937	6,894	7,755	8,625	9,617	10,683	11,684
45-64	1,787	2,369	3,399	4,560	5,790	7,106	8,425	9,828	11,583	13,580	16,064	18,917	22,168
65-74	542	757	1,166	1,607	2,208	2,855	3,557	4,576	5,520	6,811	8,379	10,353	12,684
75+	78	129	201	302	437	613	872	1,115	1,430	1,759	2,348	3,064	3,843
Male	2,096	2,744	3,815	4,956	6,296	7,766	9,323	11,050	12,860	14,887	17,574	20,650	24,148
Female	1,847	2,531	3,679	4,965	6,432	7,961	9,500	11,398	13,461	15,916	18,872	22,400	26,267
White	2,803	3,701	5,167	6,752	8,520	10,430	12,355	14,639	17,070	19,871	23,468	27,493	31,949
Black	1,093	1,485	2,162	2,906	3,830	4,798	5,789	6,952	8,187	9,631	11,360	13,581	16,083
Native American	44	78	126	180	250	317	406	501	603	732	888	1,034	1,221
Asian	*	11	38	82	127	181	273	357	461	569	730	942	1,161
†Hispanic													
†Non-Hispanic													
All	3,944	5,275	7,494	9,921	12,727	15,727	18,823	22,448	26,321	30,803	36,446	43,050	50,415

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	31	31	28	25	27	25	18	21	22	18	13	13
20-29	1,488	1,401	1,336	1,303	1,220	1,160	1,126	1,064	1,068	1,040	962	919
30-39	6,529	7,043	7,353	7,512	7,546	7,528	7,490	7,573	7,450	7,269	7,137	7,082
40-49	9,158	10,240	11,260	12,472	13,411	14,028	14,806	15,551	16,222	16,858	17,448	17,912
50-59	12,346	13,967	15,674	17,312	19,347	21,501	23,641	25,887	27,818	29,898	31,724	33,299
60-64	7,870	8,762	9,726	10,882	12,004	13,101	14,351	15,461	16,390	17,573	18,776	19,757
65-69	8,711	9,834	11,090	12,319	13,669	14,827	15,891	17,109	18,145	19,244	20,106	21,076
70-79	9,454	11,169	13,096	15,272	17,753	20,105	22,124	24,084	25,932	27,508	29,042	30,318
80+	1,484	1,814	2,152	2,628	3,228	3,891	4,456	5,169	5,999	6,876	7,839	8,608
0-19	31	31	28	25	27	25	18	21	22	18	13	13
20-44	12,339	13,158	13,698	14,299	14,587	14,820	15,088	15,350	15,335	15,357	15,255	15,248
45-64	25,052	28,256	31,651	35,182	38,941	42,498	46,326	50,186	53,613	57,282	60,793	63,721
65-74	14,993	17,271	19,737	22,230	24,909	27,317	29,387	31,587	33,545	35,383	37,031	38,714
75+	4,656	5,545	6,601	7,990	9,741	11,507	13,084	14,774	16,530	18,244	19,955	21,288
Male	27,233	30,860	34,472	38,500	42,824	47,184	51,414	55,929	60,004	64,422	68,588	72,455
Female	29,838	33,402	37,242	41,225	45,381	48,983	52,490	55,990	59,042	61,861	64,460	66,529
White	35,801	39,988	44,476	49,038	54,153	58,863	63,365	68,515	73,244	77,788	81,974	85,671
Black	18,431	20,919	23,369	26,294	29,198	31,916	34,569	36,762	38,594	40,712	42,781	44,541
Native American	1,407	1,591	1,780	1,980	2,128	2,322	2,533	2,727	2,880	3,031	3,140	3,251
Asian	1,432	1,763	2,090	2,415	2,726	3,067	3,437	3,913	4,327	4,753	5,153	5,522
†Hispanic				10,182	12,197	13,760	15,428	17,576	38,914	21,068	22,710	24,364
†Non-Hispanic				69,999	76,765	83,311	89,455	95,379	201,369	106,405	111,660	116,104
All	57,071	64,261	71,714	79,726	88,205	96,167	103,904	111,918	119,045	126,284	133,048	138,984

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & Years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	95	94	101	114	123	125	130	142	141	149	164	180	177
20-29	455	515	598	650	726	793	845	902	971	1,022	1,108	1,245	1,389
30-39	1,034	1,215	1,429	1,696	1,963	2,215	2,485	2,797	3,093	3,372	3,635	3,960	4,297
40-49	1,469	1,752	2,083	2,459	2,905	3,269	3,547	3,887	4,355	4,932	5,581	6,258	7,118
50-59	1,749	2,156	2,749	3,333	3,817	4,253	4,661	5,106	5,615	6,180	6,804	7,383	8,127
60-64	846	1,047	1,422	1,792	2,228	2,604	2,987	3,276	3,600	3,943	4,334	4,799	5,301
65-69	781	992	1,343	1,762	2,250	2,651	3,047	3,522	4,118	4,637	5,351	6,081	6,659
70-79	791	1,121	1,667	2,338	3,045	3,718	4,480	5,414	6,263	7,245	8,463	9,936	11,585
80+	87	155	274	408	604	756	1,033	1,339	1,686	2,067	2,607	3,287	3,990
0-19	95	94	101	114	123	125	130	142	141	149	164	180	177
20-44	2,189	2,579	3,007	3,524	4,010	4,487	4,935	5,480	6,081	6,711	7,401	8,245	9,156
45-64	3,365	4,106	5,273	6,406	7,629	8,647	9,589	10,488	11,552	12,738	14,062	15,400	17,076
65-74	1,333	1,747	2,445	3,257	4,126	4,896	5,674	6,654	7,685	8,711	10,046	11,630	13,116
75+	326	522	838	1,251	1,773	2,229	2,886	3,622	4,382	5,238	6,375	7,674	9,117
Male	4,286	5,338	6,830	8,518	10,336	11,912	13,435	15,189	17,178	19,291	21,927	24,978	28,102
Female	3,021	3,710	4,835	6,035	7,325	8,472	9,780	11,196	12,663	14,256	16,121	18,150	20,541
White	3,214	4,040	5,382	6,753	8,150	9,299	10,697	12,241	13,884	15,592	17,872	20,469	23,150
Black	4,051	4,944	6,172	7,636	9,304	10,805	12,159	13,708	15,406	17,276	19,360	21,660	24,283
Native American	21	31	40	50	60	72	85	91	119	137	162	195	235
Asian	21	33	72	114	148	208	273	345	433	542	653	805	975
†Hispanic													
†Non-Hispanic													
All	7,308	9,048	11,665	14,553	17,661	20,384	23,214	26,385	29,841	33,547	38,048	43,129	48,643
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	172	155	152	130	136	138	136	125	106	91	93	104	
20-29	1,495	1,608	1,662	1,705	1,732	1,742	1,766	1,797	1,754	1,669	1,582	1,485	
30-39	4,607	4,853	5,043	5,236	5,445	5,413	5,609	5,837	5,955	6,149	6,342	6,425	
40-49	7,849	8,595	9,275	9,884	10,446	10,983	11,405	11,860	12,183	12,560	12,933	13,236	
50-59	8,922	9,681	10,476	10,938	11,398	12,056	12,914	13,950	14,686	15,612	16,467	17,334	
60-64	5,615	5,970	6,209	6,335	6,503	6,649	6,756	7,098	7,429	7,764	8,159	8,525	
65-69	7,252	7,898	8,214	8,298	8,480	8,589	8,755	8,974	9,081	9,413	9,783	10,050	
70-79	13,027	14,437	15,802	16,521	17,277	18,181	18,973	19,729	20,155	20,610	21,441	21,697	
80+	4,810	5,509	6,228	6,826	7,479	8,143	9,021	9,951	10,805	11,755	12,812	13,816	
0-19	172	155	152	130	136	138	136	125	106	91	93	104	
20-44	9,916	10,530	10,931	11,450	11,872	12,080	12,425	12,880	13,095	13,320	13,408	13,572	
45-64	18,572	20,177	21,735	22,649	23,652	24,763	26,026	27,662	28,912	30,435	32,076	33,432	
65-74	14,584	15,993	16,953	17,305	17,720	18,123	18,527	18,952	19,194	19,734	20,463	20,835	
75+	10,504	11,851	13,291	14,340	15,516	16,790	18,222	19,702	20,846	22,045	23,574	24,728	
Male	31,133	34,207	36,812	38,465	40,505	42,390	44,477	46,879	48,715	50,889	53,281	54,891	
Female	22,615	24,500	26,251	27,408	28,391	29,504	30,859	32,443	33,438	34,736	36,333	37,781	
White	25,525	27,904	29,952	31,050	32,523	33,827	35,413	37,410	38,898	40,563	42,534	43,958	
Black	26,771	29,113	31,207	32,734	34,128	35,637	37,249	38,949	40,071	41,614	43,351	44,813	
Native American	250	262	299	308	309	320	343	370	375	395	404	408	
Asian	1,202	1,427	1,604	1,781	1,936	2,110	2,330	2,592	2,809	3,054	3,325	3,493	
†Hispanic				4,264	4,701	5,099	5,578	6,247	13,568	7,261	7,790	8,230	
†Non-Hispanic				61,760	64,409	67,060	70,053	73,390	151,487	78,785	82,314	84,995	
All	53,748	58,706	63,062	65,874	68,896	71,894	75,336	79,321	82,153	85,625	89,613	92,672	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & Years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	667	721	765	827	844	903	964	1,010	1,052	1,085	1,112	1,123	1,139
20-29	1,989	2,197	2,446	2,651	2,887	3,051	3,145	3,304	3,494	3,588	3,715	3,866	4,053
30-39	2,209	2,601	3,021	3,478	3,972	4,507	4,930	5,372	5,707	5,917	6,264	6,580	7,059
40-49	1,796	2,030	2,336	2,695	3,211	3,594	4,016	4,434	4,930	5,439	5,936	6,539	7,264
50-59	1,821	2,058	2,354	2,663	3,060	3,395	3,631	3,948	4,230	4,505	4,695	5,056	5,490
60-64	748	864	1,098	1,316	1,516	1,764	1,915	2,033	2,203	2,304	2,444	2,538	2,632
65-69	629	712	838	986	1,240	1,387	1,615	1,869	2,084	2,238	2,443	2,683	2,849
70-79	527	655	829	1,106	1,395	1,656	1,932	2,192	2,480	2,702	2,974	3,374	3,796
80+	54	79	128	175	232	305	382	482	531	630	752	889	1,006
0-19	667	721	765	827	844	903	964	1,010	1,052	1,085	1,112	1,123	1,139
20-44	5,148	5,849	6,662	7,510	8,540	9,444	10,193	11,073	11,853	12,428	13,169	14,077	15,100
45-64	3,415	3,901	4,593	5,293	6,107	6,867	7,444	8,018	8,711	9,326	9,885	10,502	11,398
65-74	986	1,136	1,370	1,708	2,135	2,436	2,814	3,216	3,623	3,862	4,242	4,703	5,110
75+	226	310	426	558	733	913	1,115	1,328	1,473	1,708	1,928	2,244	2,541
Male	6,215	7,108	8,268	9,568	11,085	12,393	13,573	14,836	16,069	17,070	18,225	19,640	21,215
Female	4,226	4,810	5,547	6,328	7,274	8,169	8,956	9,808	10,643	11,339	12,111	13,010	14,074
White	8,099	9,188	10,548	11,973	13,652	15,142	16,505	17,971	19,394	20,375	21,531	23,094	24,767
Black	2,159	2,491	2,966	3,512	4,137	4,737	5,233	5,768	6,273	6,822	7,458	8,056	8,812
Native American	72	86	99	131	172	184	204	223	245	268	282	299	333
Asian	111	154	202	281	398	499	587	683	800	944	1,066	1,199	1,376
†Hispanic													
†Non-Hispanic													
All	10,441	11,918	13,815	15,897	18,359	20,563	22,529	24,644	26,712	28,409	30,336	32,649	35,289

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	1,154	1,182	1,164	1,249	1,242	1,205	1,176	1,150	1,110	1,095	1,051	990
20-29	4,231	4,364	4,411	4,536	4,606	4,686	4,753	4,760	4,659	4,501	4,384	4,261
30-39	7,417	7,695	7,860	8,198	8,405	8,480	8,649	8,843	8,975	9,100	9,147	9,100
40-49	7,889	8,535	8,961	9,684	10,252	10,683	11,127	11,566	11,850	12,085	12,285	12,219
50-59	5,898	6,334	6,659	7,099	7,649	8,246	8,944	9,622	10,292	11,049	11,612	11,929
60-64	2,704	2,837	2,907	3,088	3,251	3,372	3,471	3,669	3,749	3,877	4,116	4,388
65-69	3,012	3,160	3,352	3,455	3,582	3,612	3,757	3,859	3,935	3,978	4,073	4,274
70-79	4,161	4,523	4,910	5,180	5,525	5,870	6,048	6,190	6,182	6,239	6,368	6,355
80+	1,089	1,263	1,435	1,603	1,732	1,851	1,924	2,067	2,179	2,291	2,364	2,402
0-19	1,154	1,182	1,164	1,249	1,242	1,205	1,176	1,150	1,110	1,095	1,051	990
20-44	15,901	16,547	16,934	17,660	18,099	18,459	18,888	19,278	19,360	19,457	19,446	19,161
45-64	12,237	13,219	13,865	14,945	16,065	17,009	18,055	19,182	20,165	21,153	22,098	22,735
65-74	5,523	5,879	6,288	6,538	6,731	6,947	7,191	7,368	7,479	7,546	7,623	7,867
75+	2,739	3,067	3,409	3,700	4,108	4,386	4,539	4,748	4,818	4,962	5,181	5,164
Male	22,573	23,982	25,043	26,525	27,897	29,009	30,114	31,256	32,004	32,785	33,400	33,835
Female	14,981	15,912	16,617	17,566	18,348	18,997	19,734	20,469	20,927	21,428	21,999	22,082
White	26,119	27,566	28,502	29,900	31,169	32,140	33,113	34,100	34,724	35,315	35,991	36,176
Black	9,500	10,157	10,754	11,555	12,210	12,824	13,455	14,145	14,549	15,038	15,370	15,665
Native American	365	401	430	460	506	536	578	595	626	655	676	688
Asian	1,570	1,771	1,974	2,176	2,360	2,506	2,703	2,884	3,033	3,206	3,362	3,388
†Hispanic				4,167	4,619	4,965	5,289	5,704	11,903	6,146	6,427	6,536
†Non-Hispanic				40,015	41,759	43,206	44,751	46,242	94,469	48,368	49,312	49,750
All	37,554	39,894	41,660	44,091	46,245	48,006	49,849	51,725	52,931	54,213	55,399	55,917

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & Years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	1,082	1,156	1,271	1,338	1,418	1,497	1,622	1,716	1,843	1,855	1,884	1,914	1,974
20-29	2,247	2,503	2,614	2,685	2,965	3,120	3,188	3,369	3,440	3,523	3,627	3,712	3,868
30-39	2,849	3,095	3,309	3,438	3,647	3,861	4,121	4,404	4,744	4,979	5,264	5,680	6,066
40-49	3,895	4,125	4,151	4,150	4,533	4,527	4,668	4,916	5,179	5,526	5,859	6,384	7,039
50-59	6,154	6,559	6,644	6,590	6,684	6,573	6,489	6,543	6,670	6,678	6,736	7,021	7,257
60-64	2,968	3,253	3,434	3,438	3,741	3,801	3,793	3,768	3,844	3,931	3,941	3,974	4,086
65-69	2,822	2,944	2,892	2,957	3,294	3,380	3,442	3,583	3,814	3,932	4,073	4,227	4,397
70-79	2,899	3,152	3,269	3,458	4,083	4,328	4,451	4,667	4,950	5,153	5,334	5,671	6,202
80+	403	459	492	587	785	851	965	1,074	1,251	1,421	1,553	1,704	1,871
0-19	1,082	1,156	1,271	1,338	1,418	1,497	1,622	1,716	1,843	1,855	1,884	1,914	1,974
20-44	6,851	7,482	7,811	8,018	8,716	9,053	9,467	10,172	10,687	11,165	11,753	12,611	13,411
45-64	11,263	12,054	12,341	12,282	12,854	12,828	12,792	12,829	13,190	13,472	13,674	14,161	14,905
65-74	4,739	5,040	4,977	5,164	5,839	6,019	6,159	6,362	6,729	6,979	7,187	7,560	8,077
75+	1,385	1,515	1,675	1,838	2,324	2,540	2,698	2,962	3,287	3,526	3,773	4,043	4,393
Male	13,312	14,270	14,585	14,913	16,103	16,424	16,841	17,468	18,386	19,029	19,684	20,758	22,106
Female	12,007	12,977	13,491	13,726	15,047	15,514	15,897	16,574	17,349	17,968	18,588	19,530	20,653
White	18,961	20,360	21,051	21,556	23,525	24,274	25,089	26,177	27,452	28,372	29,253	30,694	32,545
Black	6,156	6,655	6,729	6,726	7,180	7,144	7,050	7,167	7,480	7,697	7,990	8,456	8,925
Native American	74	83	100	121	145	162	176	197	210	227	247	264	286
Asian	129	148	195	236	300	358	423	500	593	701	782	874	1,003
†Hispanic													
†Non-Hispanic													
All	25,320	27,247	28,076	28,639	31,150	31,938	32,738	34,041	35,735	36,997	38,272	40,288	42,759

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	2,014	2,114	2,124	2,279	2,330	2,364	2,414	2,522	2,494	2,551	2,547	2,456
20-29	3,968	4,106	3,999	4,142	4,292	4,386	4,443	4,589	4,608	4,725	4,759	4,645
30-39	6,450	6,842	7,044	7,331	7,524	7,715	7,908	8,115	8,281	8,435	8,491	8,413
40-49	7,462	7,972	8,352	9,060	9,600	10,074	10,765	11,494	12,045	12,514	13,028	13,268
50-59	7,560	8,109	8,416	8,856	9,334	10,082	10,933	11,790	12,639	13,536	14,362	15,027
60-64	4,168	4,191	4,194	4,358	4,463	4,647	4,881	5,209	5,436	5,679	6,105	6,608
65-69	4,531	4,776	4,906	5,170	5,341	5,508	5,638	5,869	6,125	6,415	6,696	6,985
70-79	6,502	6,746	7,265	7,854	8,501	9,005	9,472	10,051	10,321	10,629	10,995	11,212
80+	2,064	2,282	2,488	2,854	3,103	3,392	3,725	4,054	4,417	4,755	5,001	5,210
0-19	2,014	2,114	2,124	2,279	2,330	2,364	2,414	2,522	2,494	2,551	2,547	2,456
20-44	14,048	14,844	15,056	15,781	16,414	16,993	17,536	18,251	18,615	18,994	19,280	19,138
45-64	15,560	16,377	16,951	17,967	18,798	19,911	21,395	22,946	24,395	25,895	27,464	28,823
65-74	8,368	8,797	9,267	9,715	10,156	10,609	10,947	11,370	11,786	12,236	12,710	13,164
75+	4,728	5,008	5,392	6,163	6,789	7,296	7,888	8,605	9,077	9,562	9,982	10,242
Male	23,148	24,488	25,395	27,195	28,669	30,217	31,933	33,969	35,396	37,009	38,520	39,572
Female	21,570	22,652	23,394	24,710	25,817	26,956	28,247	29,724	30,971	32,229	33,463	34,251
White	33,963	35,681	36,683	38,957	40,790	42,630	44,701	47,288	49,296	51,317	53,266	54,499
Black	9,324	9,899	10,439	11,099	11,730	12,466	13,268	14,052	14,648	15,328	15,955	16,501
Native American	311	329	343	371	402	410	444	450	460	479	505	515
Asian	1,121	1,230	1,324	1,477	1,564	1,666	1,767	1,903	1,963	2,114	2,258	2,307
†Hispanic				4,195	4,608	4,911	5,311	5,800	12,486	6,616	6,989	7,238
†Non-Hispanic				47,846	50,070	52,475	55,107	58,154	120,847	62,988	65,442	67,135
All	44,718	47,140	48,789	51,904	54,486	57,172	60,180	63,693	66,367	69,238	71,984	73,823

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	2,418	2,605	2,791	2,953	3,117	3,256	3,471	3,643	3,746	3,821	3,876	3,944	4,022
20-29	6,231	6,951	7,679	8,239	9,032	9,601	10,105	10,532	10,931	11,320	11,748	12,286	12,764
30-39	8,574	9,911	11,456	12,844	14,498	16,272	18,070	19,646	21,134	22,499	24,001	25,656	27,591
40-49	9,768	10,911	12,052	13,420	15,452	16,960	18,619	20,600	22,746	25,425	28,258	31,449	35,250
50-59	13,403	15,151	17,030	18,735	20,513	22,261	23,814	25,594	27,627	29,760	32,267	35,356	38,907
60-64	6,603	7,498	8,844	10,193	11,826	13,279	14,614	15,637	17,212	18,688	20,377	22,378	24,326
65-69	6,184	6,842	7,700	9,141	10,748	12,176	13,769	15,711	17,834	19,990	22,455	25,181	27,931
70-79	6,197	7,359	8,815	11,091	13,349	15,682	17,920	20,592	23,220	26,396	30,025	34,825	40,542
80+	862	1,082	1,437	1,927	2,552	3,149	3,861	4,709	5,741	6,845	8,173	9,928	11,658
0-19	2,418	2,605	2,791	2,953	3,117	3,256	3,471	3,643	3,746	3,821	3,876	3,944	4,022
20-44	19,434	22,098	24,856	27,493	30,980	34,015	37,161	40,379	43,297	46,340	49,849	53,967	58,023
45-64	25,145	28,324	32,205	35,938	40,341	44,358	48,061	51,630	56,353	61,352	66,802	73,158	80,815
65-74	10,275	11,674	13,414	16,251	19,085	21,836	24,641	28,117	31,600	35,529	40,036	45,706	51,902
75+	2,968	3,609	4,538	5,908	7,564	9,171	10,909	12,895	15,195	17,702	20,617	24,228	28,229
Male	33,334	37,888	42,916	48,841	55,661	61,914	68,224	74,765	81,761	89,405	98,190	108,611	120,148
Female	26,906	30,422	34,888	39,702	45,426	50,722	56,019	61,899	68,430	75,339	82,990	92,392	102,843
White	42,644	48,034	54,198	60,789	68,838	76,020	83,448	91,273	99,636	108,135	118,190	130,429	143,694
Black	17,007	19,481	22,446	26,188	30,193	34,058	37,653	41,680	46,162	51,458	56,942	63,595	71,176
Native American	265	359	480	635	804	941	1,111	1,303	1,519	1,759	2,015	2,233	2,582
Asian	324	436	680	931	1,252	1,617	2,031	2,408	2,874	3,392	4,033	4,746	5,539
†Hispanic													
†Non-Hispanic													
All	60,240	68,310	77,804	88,543	101,087	112,636	124,243	136,664	150,191	164,744	181,180	201,003	222,991

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	4,086	4,201	4,214	4,375	4,360	4,341	4,406	4,417	4,363	4,427	4,390	4,184
20-29	13,178	13,422	13,277	13,485	13,633	13,690	13,769	13,853	13,788	13,582	13,265	12,840
30-39	29,099	30,715	31,479	32,332	32,946	33,092	33,600	34,240	34,632	34,913	34,988	34,789
40-49	38,297	41,467	44,307	47,819	50,629	52,927	55,410	57,827	59,997	61,984	63,683	64,559
50-59	42,422	46,589	49,884	53,143	57,516	62,286	67,540	72,791	77,876	83,198	87,631	91,126
60-64	25,858	27,443	28,958	30,895	32,764	34,608	36,610	38,798	40,721	42,701	45,505	47,786
65-69	30,614	33,279	35,350	37,541	39,837	41,646	43,398	45,342	47,105	49,215	51,035	52,735
70-79	45,166	49,986	55,121	60,317	65,894	71,302	76,187	79,971	83,210	86,393	89,182	91,139
80+	13,649	15,539	17,557	19,888	22,470	25,003	27,952	30,559	33,555	37,045	39,983	42,510
0-19	4,086	4,201	4,214	4,375	4,360	4,341	4,406	4,417	4,363	4,427	4,390	4,184
20-44	61,078	64,141	65,639	68,013	69,807	71,177	72,718	74,438	75,287	76,098	76,130	75,726
45-64	87,776	95,495	102,266	109,661	117,681	125,426	134,211	143,071	151,727	160,280	168,942	175,374
65-74	57,442	63,118	68,057	72,777	77,492	81,874	85,693	89,152	92,402	95,985	99,045	101,778
75+	31,987	35,686	39,971	44,969	50,709	56,077	61,844	66,720	71,468	76,668	81,155	84,606
Male	130,626	141,666	151,075	161,852	173,112	183,793	195,206	206,057	216,391	227,400	237,044	245,026
Female	111,743	120,975	129,072	137,943	146,937	155,102	163,666	171,741	178,856	186,058	192,618	196,642
White	154,886	166,489	176,384	188,049	200,398	211,370	223,200	235,188	246,200	257,359	266,972	274,223
Black	78,120	85,378	91,790	98,414	105,187	111,878	118,537	124,120	129,343	134,932	140,392	144,177
Native American	2,868	3,176	3,483	3,810	4,043	4,342	4,714	5,021	5,212	5,473	5,619	5,787
Asian	6,495	7,598	8,490	9,522	10,421	11,305	12,421	13,469	14,492	15,694	16,679	17,481
†Hispanic				28,493	32,276	35,400	38,824	43,522	93,356	49,867	53,157	55,761
†Non-Hispanic				272,577	289,555	305,530	322,306	336,752	702,458	366,482	379,842	389,759
All	242,369	262,641	280,147	299,795	320,049	338,895	358,872	377,798	395,247	413,458	429,662	441,668

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	22	30	33	28	37	39	48	46	47	40	49	46	50
20-29	507	655	865	1,052	1,220	1,363	1,535	1,625	1,713	1,803	1,845	1,991	1,975
30-39	1,210	1,610	2,147	2,594	3,200	3,844	4,494	4,984	5,440	5,974	6,432	6,964	7,568
40-49	1,013	1,333	1,794	2,264	2,873	3,401	4,101	4,872	5,700	6,846	7,947	9,119	10,412
50-59	1,353	1,881	2,671	3,442	4,212	5,163	5,972	6,848	7,792	8,939	10,475	12,292	14,203
60-64	725	947	1,398	1,921	2,526	3,088	3,729	4,305	5,161	6,028	7,114	8,352	9,547
65-69	562	802	1,091	1,509	1,997	2,584	3,239	4,104	4,925	6,050	7,221	8,644	10,253
70-79	350	569	936	1,293	1,779	2,343	3,024	3,769	4,571	5,691	7,281	9,162	11,380
80+	24	39	70	125	186	241	334	472	633	755	1,018	1,419	1,760
0-19	22	30	33	28	37	39	48	46	47	40	49	46	50
20-44	2,209	2,924	3,875	4,731	5,867	6,911	8,062	9,024	9,976	11,102	12,159	13,471	14,530
45-64	2,599	3,502	5,000	6,542	8,164	9,948	11,769	13,610	15,830	18,488	21,654	25,247	29,175
65-74	813	1,210	1,761	2,441	3,253	4,199	5,282	6,656	7,949	9,807	12,015	14,659	17,755
75+	123	200	336	486	709	969	1,315	1,689	2,180	2,689	3,505	4,566	5,638
Male	3,075	4,073	5,565	7,078	8,928	10,957	13,140	15,285	17,616	20,388	23,780	27,721	31,995
Female	2,691	3,793	5,440	7,150	9,102	11,109	13,336	15,740	18,366	21,738	25,602	30,268	35,153
White	4,164	5,595	7,754	9,842	12,350	14,935	17,746	20,613	23,751	27,693	32,336	37,764	43,381
Black	1,535	2,136	3,000	4,005	5,138	6,417	7,771	9,227	10,763	12,653	14,854	17,631	20,662
Native American	60	115	177	257	355	435	553	672	826	998	1,177	1,335	1,567
Asian	*	20	74	124	187	279	406	513	642	782	1,015	1,259	1,538
†Hispanic													
†Non-Hispanic													
All	5,766	7,866	11,005	14,228	18,030	22,066	26,476	31,025	35,982	42,126	49,382	57,989	67,148

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	43	42	35	35	35	33	27	28	29	23	17	16
20-29	1,943	1,837	1,710	1,673	1,571	1,470	1,434	1,356	1,378	1,324	1,239	1,188
30-39	7,964	8,605	8,854	8,942	8,944	8,887	8,843	8,863	8,773	8,606	8,427	8,364
40-49	11,487	12,693	13,840	15,276	16,299	17,045	17,851	18,626	19,371	20,146	20,696	21,207
50-59	16,025	18,061	19,999	22,034	24,543	27,112	29,677	32,187	34,647	36,865	38,853	40,560
60-64	10,487	11,570	12,829	14,301	15,594	16,998	18,435	19,701	20,847	22,096	23,564	24,588
65-69	11,855	13,291	14,884	16,484	18,210	19,603	20,964	22,319	23,598	24,766	25,780	26,700
70-79	13,444	15,715	18,271	21,303	24,581	27,636	30,500	32,809	35,214	37,165	38,818	40,185
80+	2,187	2,654	3,206	3,974	4,852	5,816	6,777	7,620	8,803	10,115	11,295	12,253
0-19	43	42	35	35	35	33	27	28	29	23	17	16
20-44	15,269	16,218	16,667	17,215	17,508	17,688	17,922	18,174	18,207	18,244	18,079	18,087
45-64	32,637	36,548	40,565	45,011	49,443	53,824	58,318	62,559	66,809	70,793	74,700	77,820
65-74	20,713	23,636	26,826	30,119	33,571	36,557	39,283	41,735	44,162	46,196	48,069	49,613
75+	6,773	8,024	9,535	11,642	14,072	16,498	18,958	21,013	23,453	25,850	27,824	29,525
Male	36,007	40,391	44,898	50,207	55,518	61,002	66,513	71,506	76,909	82,054	86,805	91,332
Female	39,428	44,077	48,730	53,815	59,111	63,598	67,995	72,003	75,751	79,052	81,884	83,729
White	48,374	53,690	59,134	65,248	71,708	77,682	83,764	89,647	95,644	100,928	105,664	109,815
Black	23,419	26,471	29,549	33,113	36,702	40,110	43,169	45,556	48,066	50,496	52,853	54,499
Native American	1,770	2,000	2,236	2,481	2,639	2,869	3,139	3,361	3,503	3,701	3,794	3,924
Asian	1,872	2,307	2,709	3,180	3,580	3,939	4,436	4,945	5,447	5,981	6,378	6,823
†Hispanic				13,424	15,840	17,780	19,831	22,550	49,058	26,430	28,449	30,230
†Non-Hispanic				91,335	99,864	108,044	116,008	122,398	259,222	136,242	141,969	146,772
All	75,435	84,468	93,628	104,022	114,629	124,600	134,508	143,509	152,660	161,106	168,689	175,061

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	120	124	132	146	157	161	165	171	179	193	213	238	224
20-29	568	643	748	801	899	980	1,055	1,101	1,171	1,255	1,373	1,528	1,679
30-39	1,265	1,479	1,771	2,063	2,370	2,664	2,988	3,331	3,675	3,999	4,273	4,653	5,072
40-49	1,790	2,144	2,549	2,959	3,463	3,911	4,243	4,692	5,176	5,825	6,573	7,351	8,357
50-59	2,210	2,761	3,499	4,146	4,674	5,226	5,678	6,216	6,840	7,488	8,248	8,888	9,787
60-64	1,101	1,388	1,875	2,383	2,842	3,378	3,835	4,184	4,560	5,074	5,515	6,105	6,658
65-69	1,047	1,403	1,899	2,397	3,002	3,490	4,069	4,692	5,482	6,160	7,089	7,961	8,724
70-79	1,127	1,668	2,432	3,368	4,309	5,332	6,298	7,676	8,824	10,277	11,816	13,814	16,065
80+	148	260	465	649	897	1,230	1,567	2,031	2,579	3,160	3,929	4,864	5,882
0-19	120	124	132	146	157	161	165	171	179	193	213	238	224
20-44	2,675	3,163	3,723	4,280	4,843	5,402	5,962	6,598	7,243	7,995	8,794	9,760	10,840
45-64	4,259	5,252	6,719	8,072	9,405	10,757	11,837	12,926	14,179	15,646	17,188	18,765	20,713
65-74	1,808	2,516	3,496	4,497	5,596	6,667	7,709	9,086	10,450	11,850	13,523	15,540	17,550
75+	514	815	1,300	1,917	2,612	3,385	4,225	5,313	6,435	7,747	9,311	11,099	13,121
Male	5,534	6,978	9,026	11,096	13,272	15,411	17,411	19,736	22,209	25,011	28,374	32,014	36,044
Female	3,842	4,892	6,344	7,816	9,341	10,961	12,487	14,358	16,277	18,420	20,655	23,388	26,404
White	4,291	5,551	7,470	9,135	10,876	12,719	14,483	16,678	18,933	21,340	24,382	27,802	31,446
Black	5,031	6,233	7,744	9,561	11,454	13,284	14,951	16,835	18,848	21,234	23,609	26,352	29,506
Native American	28	37	49	65	78	92	101	122	143	175	203	236	284
Asian	26	49	107	151	205	277	363	459	562	682	835	1,012	1,212
†Hispanic													
†Non-Hispanic													
All	9,376	11,870	15,370	18,912	22,613	26,372	29,898	34,094	38,486	43,431	49,029	55,402	62,448

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	221	204	190	160	168	168	159	152	123	113	113	135
20-29	1,816	1,926	1,943	1,970	1,986	2,026	2,026	2,057	2,037	1,942	1,816	1,701
30-39	5,366	5,649	5,770	5,973	6,141	6,112	6,348	6,562	6,731	6,919	7,149	7,176
40-49	9,129	9,966	10,665	11,231	11,870	12,450	12,896	13,385	13,789	14,233	14,646	14,893
50-59	10,585	11,667	12,274	12,663	13,296	14,002	15,028	16,070	17,016	18,161	19,054	19,909
60-64	7,049	7,449	7,617	7,655	7,969	8,088	8,246	8,633	8,988	9,282	9,871	10,238
65-69	9,435	10,245	10,323	10,446	10,679	10,879	11,006	11,180	11,369	11,822	12,169	12,523
70-79	17,968	19,654	21,065	21,959	23,126	24,391	25,491	26,240	26,744	27,557	28,264	28,485
80+	7,074	8,011	8,849	9,732	10,820	11,797	13,109	14,383	15,566	16,963	18,371	19,607
0-19	221	204	190	160	168	168	159	152	123	113	113	135
20-44	11,585	12,270	12,557	13,044	13,444	13,738	14,086	14,523	14,810	15,094	15,149	15,222
45-64	22,360	24,387	25,712	26,448	27,818	28,940	30,458	32,184	33,751	35,443	37,387	38,695
65-74	19,351	21,119	21,805	22,246	22,804	23,418	23,867	24,212	24,496	25,341	25,938	26,414
75+	15,126	16,791	18,432	19,891	21,821	23,649	25,739	27,591	29,183	31,001	32,866	34,201
Male	39,676	43,447	45,701	47,592	50,337	52,666	55,217	57,757	60,111	62,975	65,593	67,427
Female	28,967	31,324	32,995	34,197	35,718	37,247	39,092	40,905	42,252	44,017	45,860	47,240
White	34,496	37,436	39,228	40,562	42,816	44,615	46,799	49,118	51,068	53,516	55,664	57,304
Black	32,348	35,240	37,154	38,709	40,509	42,330	44,239	45,970	47,465	49,327	51,317	52,673
Native American	305	328	347	358	367	389	409	452	466	465	478	501
Asian	1,494	1,767	1,967	2,160	2,363	2,579	2,862	3,122	3,364	3,684	3,994	4,189
†Hispanic				5,285	5,743	6,209	6,777	7,676	16,416	8,814	9,420	9,877
†Non-Hispanic				76,725	80,605	84,046	87,903	91,398	189,264	98,692	102,660	105,497
All	68,643	74,771	78,696	81,789	86,055	89,913	94,309	98,662	102,363	106,992	111,453	114,667

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	858	950	1,010	1,078	1,116	1,158	1,218	1,293	1,318	1,373	1,378	1,377	1,402
20-29	2,381	2,621	2,948	3,152	3,425	3,586	3,750	3,886	4,050	4,179	4,344	4,491	4,656
30-39	2,601	3,082	3,576	4,107	4,625	5,209	5,702	6,185	6,512	6,746	7,182	7,503	7,954
40-49	2,124	2,412	2,785	3,208	3,772	4,227	4,673	5,173	5,697	6,222	6,806	7,459	8,216
50-59	2,178	2,503	2,898	3,216	3,650	4,007	4,318	4,661	5,000	5,312	5,525	5,882	6,332
60-64	898	1,085	1,362	1,620	1,879	2,128	2,328	2,476	2,680	2,763	2,956	3,082	3,149
65-69	782	903	1,104	1,256	1,564	1,761	2,032	2,343	2,616	2,780	3,038	3,321	3,457
70-79	706	895	1,164	1,501	1,861	2,220	2,570	2,897	3,240	3,587	3,917	4,373	4,958
80+	76	112	198	251	325	445	539	656	758	904	1,065	1,242	1,391
0-19	858	950	1,010	1,078	1,116	1,158	1,218	1,293	1,318	1,373	1,378	1,377	1,402
20-44	6,104	6,948	7,947	8,911	10,019	11,000	11,912	12,851	13,614	14,239	15,180	16,136	17,107
45-64	4,078	4,755	5,622	6,392	7,332	8,157	8,859	9,530	10,325	10,983	11,633	12,281	13,200
65-74	1,244	1,475	1,848	2,223	2,726	3,139	3,607	4,098	4,585	4,925	5,371	5,894	6,373
75+	320	435	618	785	1,024	1,287	1,534	1,798	2,029	2,346	2,649	3,042	3,433
Male	7,512	8,754	10,270	11,745	13,517	14,999	16,506	17,919	19,225	20,453	21,859	23,416	25,036
Female	5,092	5,809	6,775	7,644	8,700	9,742	10,624	11,651	12,646	13,413	14,352	15,314	16,479
White	9,812	11,294	13,053	14,643	16,579	18,278	19,953	21,649	23,193	24,385	25,834	27,530	29,343
Black	2,569	2,976	3,612	4,220	4,956	5,626	6,205	6,824	7,426	8,072	8,778	9,422	10,190
Native American	86	101	124	161	196	218	237	268	295	310	335	354	384
Asian	137	192	256	365	486	619	735	829	957	1,099	1,264	1,424	1,598
†Hispanic													
†Non-Hispanic													
All	12,604	14,563	17,045	19,389	22,217	24,741	27,130	29,570	31,871	33,866	36,211	38,730	41,515

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	1,434	1,438	1,435	1,492	1,468	1,425	1,381	1,355	1,308	1,303	1,265	1,195
20-29	4,847	4,978	5,040	5,118	5,229	5,242	5,298	5,288	5,183	5,023	4,896	4,739
30-39	8,306	8,573	8,759	9,045	9,293	9,382	9,479	9,688	9,820	9,957	9,941	9,893
40-49	8,922	9,570	10,051	10,833	11,404	11,852	12,269	12,739	13,059	13,310	13,515	13,389
50-59	6,822	7,313	7,716	8,114	8,701	9,334	10,082	10,771	11,568	12,407	12,951	13,248
60-64	3,235	3,386	3,452	3,669	3,814	3,945	4,033	4,199	4,322	4,463	4,723	5,029
65-69	3,678	3,851	4,024	4,197	4,274	4,352	4,463	4,578	4,603	4,658	4,799	4,902
70-79	5,285	5,783	6,213	6,614	6,953	7,327	7,590	7,664	7,603	7,691	7,724	7,656
80+	1,494	1,750	1,980	2,177	2,366	2,522	2,678	2,765	2,892	3,103	3,129	3,177
0-19	1,434	1,438	1,435	1,492	1,468	1,425	1,381	1,355	1,308	1,303	1,265	1,195
20-44	17,944	18,558	19,036	19,674	20,151	20,472	20,818	21,190	21,282	21,411	21,319	20,967
45-64	14,188	15,262	15,982	17,105	18,290	19,283	20,343	21,495	22,670	23,749	24,707	25,331
65-74	6,818	7,273	7,669	8,062	8,210	8,465	8,671	8,822	8,883	8,985	9,038	9,176
75+	3,639	4,111	4,548	4,926	5,383	5,736	6,060	6,185	6,215	6,467	6,614	6,559
Male	26,592	28,098	29,373	30,901	32,321	33,420	34,583	35,693	36,509	37,418	38,004	38,372
Female	17,431	18,544	19,297	20,358	21,181	21,961	22,690	23,354	23,849	24,497	24,939	24,856
White	30,832	32,443	33,537	35,131	36,413	37,429	38,397	39,317	39,907	40,768	41,291	41,254
Black	10,961	11,666	12,368	13,110	13,840	14,483	15,172	15,814	16,354	16,827	17,176	17,435
Native American	417	462	504	533	577	617	651	684	700	736	756	753
Asian	1,813	2,071	2,261	2,485	2,672	2,852	3,053	3,232	3,397	3,584	3,720	3,786
†Hispanic				4,814	5,284	5,647	5,956	6,402	13,382	6,929	7,188	7,335
†Non-Hispanic				46,569	48,390	49,931	51,554	52,906	107,972	55,340	56,163	56,357
All	44,023	46,642	48,670	51,259	53,502	55,381	57,273	59,047	60,358	61,915	62,943	63,228

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	1,418	1,501	1,616	1,701	1,807	1,898	2,040	2,133	2,202	2,215	2,236	2,283	2,346
20-29	2,775	3,032	3,118	3,234	3,488	3,672	3,765	3,920	3,997	4,083	4,186	4,276	4,454
30-39	3,498	3,740	3,962	4,080	4,303	4,555	4,886	5,146	5,507	5,780	6,114	6,536	6,997
40-49	4,841	5,022	4,924	4,989	5,344	5,421	5,602	5,863	6,173	6,532	6,932	7,520	8,265
50-59	7,662	8,006	7,962	7,931	7,977	7,865	7,846	7,869	7,995	8,021	8,019	8,294	8,585
60-64	3,879	4,078	4,209	4,269	4,579	4,685	4,722	4,672	4,811	4,823	4,792	4,839	4,972
65-69	3,793	3,734	3,606	3,979	4,185	4,341	4,429	4,572	4,811	5,000	5,107	5,255	5,497
70-79	4,014	4,227	4,283	4,929	5,400	5,787	6,028	6,250	6,585	6,841	7,011	7,476	8,139
80+	614	671	704	902	1,144	1,233	1,421	1,550	1,771	2,026	2,161	2,403	2,625
0-19	1,418	1,501	1,616	1,701	1,807	1,898	2,040	2,133	2,202	2,215	2,236	2,283	2,346
20-44	8,446	9,063	9,311	9,571	10,251	10,702	11,225	11,906	12,464	13,004	13,716	14,600	15,546
45-64	14,209	14,815	14,864	14,932	15,440	15,496	15,596	15,564	16,019	16,235	16,327	16,865	17,727
65-74	6,410	6,473	6,309	7,090	7,510	7,831	8,043	8,277	8,616	8,947	9,127	9,613	10,224
75+	2,011	2,159	2,284	2,720	3,219	3,530	3,835	4,095	4,551	4,920	5,152	5,521	6,037
Male	17,213	18,083	18,055	18,922	19,944	20,547	21,167	21,825	22,711	23,553	24,177	25,460	27,073
Female	15,281	15,928	16,329	17,092	18,283	18,910	19,572	20,150	21,141	21,768	22,381	23,422	24,807
White	24,377	25,594	25,921	27,169	29,033	30,088	31,266	32,333	33,759	34,717	35,638	37,333	39,524
Black	7,872	8,136	8,090	8,402	8,645	8,731	8,726	8,794	9,125	9,499	9,701	10,190	10,818
Native American	91	106	130	152	175	196	220	241	255	276	300	308	347
Asian	154	175	243	291	374	442	527	607	713	829	919	1,051	1,191
†Hispanic													
†Non-Hispanic													
All	32,494	34,011	34,384	36,014	38,227	39,457	40,739	41,975	43,852	45,321	46,558	48,882	51,880

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	2,388	2,517	2,554	2,688	2,689	2,715	2,839	2,882	2,903	2,988	2,995	2,838
20-29	4,572	4,681	4,584	4,724	4,847	4,952	5,011	5,152	5,190	5,293	5,314	5,212
30-39	7,463	7,888	8,096	8,372	8,568	8,711	8,930	9,127	9,308	9,431	9,471	9,356
40-49	8,759	9,238	9,751	10,479	11,056	11,580	12,394	13,077	13,778	14,295	14,826	15,070
50-59	8,990	9,548	9,895	10,332	10,976	11,838	12,753	13,763	14,645	15,765	16,773	17,409
60-64	5,087	5,038	5,060	5,270	5,387	5,577	5,896	6,265	6,564	6,860	7,347	7,931
65-69	5,646	5,892	6,119	6,414	6,674	6,812	6,965	7,265	7,535	7,969	8,287	8,610
70-79	8,469	8,834	9,572	10,441	11,234	11,948	12,606	13,258	13,649	13,980	14,376	14,813
80+	2,894	3,124	3,522	4,005	4,432	4,868	5,388	5,791	6,294	6,864	7,188	7,473
0-19	2,388	2,517	2,554	2,688	2,689	2,715	2,839	2,882	2,903	2,988	2,995	2,838
20-44	16,280	17,095	17,379	18,080	18,704	19,279	19,892	20,551	20,988	21,349	21,583	21,450
45-64	18,591	19,298	20,007	21,097	22,130	23,379	25,092	26,833	28,497	30,295	32,148	33,528
65-74	10,560	11,090	11,757	12,350	12,907	13,434	13,872	14,383	14,861	15,463	16,000	16,575
75+	6,449	6,760	7,456	8,510	9,433	10,194	11,087	11,931	12,617	13,350	13,851	14,321
Male	28,351	29,730	31,103	33,152	34,936	36,705	38,893	41,101	42,862	44,953	46,642	47,895
Female	25,917	27,030	28,050	29,573	30,927	32,296	33,889	35,479	37,004	38,492	39,935	40,817
White	41,184	42,920	44,485	47,108	49,461	51,644	54,240	57,106	59,581	62,147	64,353	65,850
Black	11,392	12,001	12,719	13,482	14,136	14,955	15,957	16,780	17,458	18,282	19,046	19,570
Native American	376	386	396	438	460	467	515	524	543	571	591	609
Asian	1,316	1,453	1,553	1,697	1,806	1,935	2,070	2,170	2,284	2,445	2,587	2,683
†Hispanic				4,970	5,409	5,764	6,260	6,894	14,500	7,694	8,100	8,319
†Non-Hispanic				57,948	60,696	63,509	66,841	70,050	146,000	76,208	79,050	81,133
All	54,268	56,760	59,153	62,725	65,863	69,001	72,782	76,580	79,866	83,445	86,577	88,712

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.2.4 (supplement)

Annual mortality rates: ESRD patients, unadjusted

per 1,000 patient years at risk, period prevalent patients, 2004, by age as of January 1, gender, race, & primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All
0-19	45.7	58.2	52.3	27.2	51.5	52.7	64.8	59.2	30.9	59.1	48.9	61.7	55.7	29.1	55.2
20-29	69.6	89.1	75.1	42.7	75.4	86.5	93.8	81.8	48.9	88.8	78.4	92.1	80.5	45.6	83
30-39	85.6	83.2	86.9	52.4	84.4	80	92.8	89.4	56.4	83.4	83.1	87.7	88.5	54.3	84
40-49	110.9	109.2	109.9	80.3	109.7	116.8	128.8	125.3	89.1	120	113.1	117.9	116.5	84	113.8
50-59	166.3	143.8	131	118	156.5	180.1	158.7	154.9	125.2	169.3	171.8	151	142.5	120.8	162
60-64	227.6	177	185.7	153.6	207.1	232.8	182.9	178.6	174.5	209.4	229.9	180.1	181.9	161.6	208.1
65-69	276.8	224.8	188.7	184.5	255.3	274.7	214.8	196.8	190.8	245.6	275.8	218.9	193.5	187.6	250.3
70-79	378	291	269	264	349	366	286	277	282	331.8	372.4	288	274	273.3	339.8
80+	536	433	385	402	506	513	413	376	404	471.4	524.1	419.4	379.1	402.9	487.2
All	238.6	188.6	167.4	183.4	220.9	258.2	213.3	192	215.1	238.4	247.2	202	180.7	198	229.3
HYPERTENSION															
0-19	16.7	23	23.2	8.1	18.3	18.6	25	25.4	8.9	21.2	17.6	24	24.3	8.2	19.7
20-29	28.2	35.5	38	14.8	32.2	31	39.1	40.9	16.1	35.4	29.3	36.8	39.3	15.2	33.4
30-39	35.6	42.9	45.7	20.2	40.2	38.2	46.1	48.1	20.8	42.8	36.5	43.9	46.5	20.4	41
40-49	68.5	72.9	74.5	33.8	70.6	63.5	77.8	77.8	33.7	72.1	66.8	74.6	75.5	33.8	71.1
50-59	111.2	108.9	112.8	55.5	108.1	118.1	109.1	105.4	59.4	109.9	113.7	109	110.4	57.2	108.8
60-64	173.8	153.1	159.3	93.4	159.8	173.2	150	150.7	90.2	157.2	173.5	151.8	155	92.1	158.8
65-69	219.2	186.1	205.6	134.4	202.1	230.6	184.4	187	124.4	203.1	223.8	185.2	196	130.1	202.6
70-79	320.8	273.7	303.6	212.5	304	329.2	271.4	296.3	218.6	301.9	324.2	272.5	299.8	215.4	303
80+	484.4	456.1	469.7	351.8	473.9	477.9	405.6	469.3	354.6	451.1	481.6	424.4	469.5	353.1	463
All	263	137	156	147	199	284	175	195	160	224.8	271.5	153	172.4	152.9	209.3
GLOMERULONEPHRITIS															
0-19	12	19	16	6	14	12	20	17	6	14.3	12	19.2	16.5	6	14.1
20-29	18.9	28.4	26.7	10.9	21.8	22.7	30.5	27	11.8	24.8	20.4	29.3	26.8	11.3	23
30-39	23.7	36.3	32.4	14.9	27.8	28.2	33.2	34.2	14.6	29.2	25.5	35	33.3	14.8	28.3
40-49	47	67.8	51.1	25.5	52.7	43.8	61.6	52.2	23.2	48.2	45.9	65.4	51.6	24.3	51
50-59	75.1	95.2	78.3	41.4	79.2	73.9	86.7	76.7	40.1	74.6	74.7	92	77.6	40.7	77.5
60-64	115.3	125	111.1	71.1	115.2	122.1	123.9	109.5	65.9	118.7	117.8	124.6	110.3	68.8	116.5
65-69	134	162.8	142.1	92.2	136.6	146.9	146.9	138.8	89.9	142.9	138.7	155.4	140.8	91.1	139
70-79	238	215.8	214	180.2	232.4	212.6	223.3	209	145.5	210.4	227.9	219.5	211.2	163.5	223.2
80+	398	384.4	355.4	287.7	391.7	421.5	344.9	312.2	270.7	401.7	407	363.4	332.3	280	395.7
All	105.3	82.6	74.1	58	96.3	105.5	82.7	72.4	51.4	94.3	105.4	82.6	73.3	54.8	95.5
OTHER															
0-19	18	34.4	29.1	11.7	21.7	21.5	40.1	30.9	12.2	25.6	19.3	36.7	29.9	11.9	23.2
20-29	28.5	59.5	45.9	20.3	35.4	32.6	69	50.4	20.9	43.3	30.4	64.7	48.2	20.7	39.2
30-39	36.7	95	53.4	27.6	53.2	40.7	77.7	56.2	27.3	52.8	38.6	85.6	54.7	27.4	53
40-49	66.3	125.4	82.1	41	82.4	60.5	98.4	79.2	41	71.6	63.6	112	80.7	41	77.3
50-59	102.2	140.8	118.7	64.8	110.1	92.6	123.8	119.1	70.2	99.5	97.7	132.6	118.9	67.6	105.1
60-64	155.8	195.7	154.9	98	161.3	145.9	179.4	156.8	102.2	151.1	151.2	187.8	155.9	100.2	156.5
65-69	207.1	230.7	194.4	143	208.8	181.6	219.1	194.9	133.9	186.8	195.4	225	194.6	138.8	198.6
70-79	313.8	319.8	265.2	226.5	311.9	299.9	311.9	260.4	214.1	298.5	307.7	315.8	262.6	220.1	305.9
80+	496.8	448.2	435.2	373.7	488.7	486	477.9	380.1	385.7	481.3	492.4	462.6	399.3	379.4	485.6
All	168.2	159	126.2	105.5	164.3	152.4	143.7	136.2	94.6	148.1	161.1	151.3	131.2	99.7	156.8
ALL															
0-19	16.6	29.2	24.8	9.7	19.7	18.6	32.2	23.7	10.2	21.9	17.5	30.4	24.2	9.9	20.7
20-29	27.4	42.2	36.4	15.8	32	34	54.2	43	17.9	40.7	30.3	47.8	40	16.8	35.9
30-39	46.3	55.8	53.2	22.4	49.2	48.5	59.8	61.2	23.7	51.9	47.2	57.4	57.3	23	50.4
40-49	79.3	87.3	89.7	43.4	81.4	78	92.1	98.1	41.3	82.1	78.8	89.2	93.3	42.4	81.7
50-59	127.6	122.6	122.8	81.7	123.9	131.4	130.6	143.3	78.8	129	129.1	126	132.2	80.4	126
60-64	187.4	165.4	176.4	122	177.2	190.7	169.3	171.2	127.2	179.9	188.8	167.2	173.6	124.1	178.4
65-69	230.3	206.9	185.4	155.3	219.9	233.7	202.5	193.1	157.1	218.4	231.8	204.5	189.8	156.2	219.2
70-79	330.7	282.7	268.8	233.7	315.5	329.1	280.1	273.6	242.1	308.7	330	281.2	271.8	237.9	312.2
80+	490.1	443.9	409.1	364.5	477.3	485	411.9	390.2	371.4	458.9	487.9	423.8	397.1	367.9	468.5
All	203.2	148.4	147.2	134.7	182.5	212.6	176.1	170.9	142.4	195.8	207.2	161.5	159.4	138.4	188.4

U.S. only; patients of unknown age or gender, or of other or unknown race, are excluded so that rates can be calculated appropriately. Includes all patients who have reached day 91 of ESRD by January 1 of each calendar year.

Table H.3

Total patient deaths: dialysis patients

by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-4	*	*	*	*	*	*	13	12	11	16	17	22	24	16	14	18	13	15	12	*	12	11	*	12	12	
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11	*
10-14	*	*	*	*	*	*	*	*	14	11	12	11	14	13	*	11	11	*	*	15	*	*	13	14	*	
15-19	21	30	19	35	25	32	21	25	29	20	23	29	30	25	25	31	25	27	20	32	25	27	24	35	19	
20-29	218	241	231	229	241	265	285	271	346	374	342	345	389	359	352	340	370	349	335	332	330	363	359	387	386	
30-39	504	541	626	618	739	838	901	1,054	1,087	1,138	1,224	1,251	1,352	1,430	1,448	1,519	1,534	1,434	1,350	1,475	1,392	1,401	1,416	1,363	1,319	
40-49	802	875	884	1,012	1,123	1,267	1,403	1,501	1,637	1,742	1,988	2,130	2,489	2,626	2,764	3,028	3,151	3,317	3,353	3,592	3,654	3,845	3,962	4,010	4,037	
50-59	1,631	1,758	1,969	2,319	2,401	2,722	2,845	2,941	3,273	3,435	3,511	3,746	4,216	4,548	4,971	5,260	5,504	5,918	6,340	7,054	7,298	7,873	8,230	8,622	8,803	
60-64	1,164	1,248	1,519	1,675	2,045	2,324	2,531	2,657	2,949	3,091	3,185	3,440	3,748	3,902	4,048	4,336	4,479	4,672	4,993	5,343	5,459	5,675	5,738	6,315	6,411	
65-69	1,345	1,492	1,604	1,977	2,219	2,637	3,072	3,243	3,776	4,157	4,490	4,864	5,310	5,797	6,044	6,431	6,812	7,113	7,382	7,691	7,871	8,193	8,198	8,447	8,503	
70-79	1,683	2,014	2,380	2,859	3,679	4,322	4,802	5,537	6,329	7,118	7,930	8,904	10,447	11,728	12,432	13,839	15,166	16,194	17,651	19,192	19,718	20,252	20,820	21,119	21,258	
80+	356	433	572	697	1,006	1,214	1,497	1,754	2,222	2,659	2,928	3,588	4,245	4,952	5,657	6,347	7,184	8,125	9,151	10,381	11,326	12,438	13,546	14,441	15,106	
0-19	41	46	35	49	47	61	47	48	60	53	58	70	75	62	55	64	58	57	49	63	45	52	50	72	44	
20-44	1,063	1,166	1,233	1,250	1,489	1,624	1,782	2,000	2,120	2,300	2,461	2,565	2,873	2,956	3,027	3,198	3,219	3,130	3,095	3,260	3,189	3,212	3,343	3,276	3,231	
45-64	3,256	3,497	3,996	4,603	5,060	5,792	6,183	6,424	7,172	7,480	7,789	8,347	9,321	9,909	10,556	11,285	11,819	12,560	13,276	14,536	14,944	15,945	16,362	17,421	17,725	
65-74	2,359	2,735	3,041	3,682	4,359	5,131	5,785	6,367	7,289	8,032	8,772	9,739	11,162	12,200	12,979	13,972	14,860	15,561	16,431	17,311	17,657	18,118	18,455	18,694	18,795	
75+	1,025	1,204	1,515	1,851	2,545	3,042	3,586	4,167	5,038	5,902	6,576	7,617	8,840	10,277	11,154	12,645	14,302	15,871	17,753	19,953	21,258	22,765	24,109	25,313	26,072	
Male	4,268	4,863	5,437	6,243	7,327	8,544	9,520	10,321	11,668	12,723	13,572	14,829	16,900	18,340	19,633	21,349	23,033	24,306	26,172	28,493	29,647	31,352	32,640	34,353	35,272	
Female	3,476	3,785	4,383	5,192	6,173	7,106	7,863	8,685	10,011	11,044	12,084	13,509	15,371	17,064	18,138	19,815	21,225	22,873	24,432	26,630	27,446	28,740	29,679	30,423	30,595	
Unknown																										
White	5,516	6,219	7,036	8,095	9,605	10,988	12,078	13,225	15,055	16,242	17,674	19,602	22,399	24,339	25,579	27,701	29,608	31,501	33,792	36,368	37,818	39,685	41,475	42,854	43,396	
Black	2,044	2,219	2,525	3,081	3,578	4,281	4,856	5,295	6,053	6,904	7,273	8,009	9,010	10,103	10,975	12,061	12,857	13,622	14,533	16,154	16,521	17,573	17,860	18,751	19,226	
Native American	18	21	53	54	94	118	149	168	202	232	283	277	311	367	408	419	515	518	554	623	702	668	736	737	721	
Asian	*	*	35	55	99	153	203	228	259	278	403	419	523	569	772	918	1,096	1,213	1,316	1,473	1,503	1,641	1,750	1,895	1,994	
Other/unknown	159	182	171	150	124	110	97	90	110	111	23	31	28	26	37	65	182	325	409	505	549	525	498	539	530	
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3,389	4,119	4,646	5,119	5,501	6,067	6,367	6,868	7,019
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40,869	43,060	45,958	50,004	51,592	54,025	55,952	57,908	58,848
Diabetes	1,044	1,361	1,914	2,659	3,225	4,158	4,975	5,783	6,696	7,552	8,860	10,250	12,078	13,652	14,860	16,671	18,795	20,503	22,766	25,437	26,287	28,202	29,128	30,439	30,968	
Hypertension	1,015	1,358	1,866	2,463	3,151	3,932	4,389	5,236	6,219	7,043	7,863	8,910	10,127	11,450	12,346	13,283	13,503	14,259	14,967	15,966	16,533	17,253	17,894	18,597	19,173	
Glomerulonephritis	815	964	1,205	1,391	1,661	1,909	2,195	2,435	2,875	2,936	3,169	3,275	3,586	3,711	3,849	4,179	4,307	4,440	4,541	4,762	4,813	4,791	4,942	4,955	4,734	
Cystic kidney	221	283	308	376	444	507	598	561	645	690	709	687	744	805	793	880	880	926	884	929	930	1,039	999	1,006	987	
Other urologic	111	163	245	338	370	479	615	682	729	814	809	785	903	910	831	957	1,159	1,220	1,300	1,451	1,580	1,651	1,738	1,780	1,835	
Other cause	660	716	847	1,093	1,322	1,528	1,733	1,928	2,023	2,178	2,427	2,672	2,888	3,192	3,405	3,613	3,991	4,109	4,264	4,682	4,800	4,960	5,329	5,533	5,541	
Unknown cause	803	852	961	882	943	1,179	1,170	1,155	1,378	1,506	1,262	1,273	1,414	1,340	1,330	1,466	1,523	1,648	1,802	1,816	2,053	2,135	2,237	2,347	2,417	
Missing disease	3,075	2,951	2,474	2,233	2,384	1,958	1,708	1,226	1,114	1,048	557	486	531	344	357	115	100	74	80	80	97	61	52	119	212	
<2 years	4,896	5,217	5,805	6,790	8,057	9,174	9,923	10,959	12,532	13,628	14,869	16,519	18,700	20,005	20,896	21,928	23,464	24,489	26,459	28,640	29,258	30,410	30,977	32,063	32,093	
2-<5 years	2,399	2,751	3,152	3,073	3,472	4,109	4,651	4,903	5,578	6,177	6,588	7,368	8,663	9,896	10,876	12,305	13,197	14,210	15,001	16,324	16,883	17,824	18,774	19,321	19,604	
5+ years	449	680	863	1,572	1,971	2,367	2,809	3,144	3,569	3,962	4,199	4,451	4,908	5,503	5,999	6,931	7,597	8,480	9,144	10,159	10,952	11,858	12,568	13,392	14,170	
All	7,744	8,648	9,820	11,435	13,500	15,650	17,383	19,006	21,679	23,767	25,656	28,338	32,271	35,404	37,771	41,164	44,258	47,179	50,604	55,123	57,093	60,092	62,319	64,776	65,867	
All with unknowns dropped	6,795	7,629	8,705	10,415	12,437	14,371	16,123	17,771	20,200	22,170	24,371	27,036	30,832	34,043	36,404	39,635	42,559	45,212	48,404	52,814	54,506	57,445	59,596	61,910	62,934	

The age of patient is determined as of the date of death.

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.4
Annual mortality rates per 1,000 patient years at risk: dialysis patients
from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	137	128	101	92	111	105	106	101	107	130	139	181	178.7	139.7	104.7	122.2	92.6	124.8	98.6	87.7	100.6	90.6	75.2	99.8	82.2
5-9	97.2	74.9	46.9	29.7	41.5	81.4	27.1	24.7	31.7	41.4	41.8	55.4	52.5	53.8	27.4	32.3	62.6	37.4	57.9	46.3	31.1	61.5	20.6	63.6	45.2
10-14	46.2	31.3	28	23	25.5	49.2	39.3	28.6	52.2	39.7	46.9	38.3	47.2	37.3	34.4	37.9	39	31	29.5	55.2	17.2	18.9	43.4	44.9	24.3
15-19	37.6	44.3	28.4	53.3	41.2	45.6	40.5	40.9	41.5	30.6	27.2	38.2	45.5	32	37.3	37.6	32.7	34	30.6	36.4	42.2	40.3	34.5	46.7	31.1
20-29	69.2	72.1	66	62.9	62	64.9	67.8	65.4	79.6	77.6	68.1	68	71.8	62.3	60.8	58.6	61	55.1	51.8	53.7	49.1	55	55.7	60.7	57.3
30-39	97.4	94.2	99.7	89.4	97.7	101.9	105.5	116.2	110.2	110.4	109.7	102.5	104.4	104.9	101.1	100.8	99.5	91.9	87.3	92.7	86.1	86.1	85.7	80.2	77.2
40-49	123.9	123.6	113.1	120.9	116.4	125.9	135	133.8	136.7	130.3	132.1	127.7	132.7	127.9	124.1	127.2	121.9	123.2	117.9	121.6	117.7	120.7	119.8	119.8	116.5
50-59	164.6	161.2	163.1	175.9	169	181.4	180.9	182.7	193.9	190.2	181.1	176.6	177.8	177.4	178.2	174.5	170.6	170.3	170.7	174.8	168.3	169.9	167.6	166.8	162.3
60-64	237	223	226	225	232	240	246	244	251	252	235	237	239	237	226.4	227.2	224.5	221.5	224.2	230.1	221.9	219.6	211.4	220.8	213.5
65-69	289.7	283	278.2	291.8	279.8	291.7	299.1	281.5	292.3	290.5	286.5	277.4	273.8	274.5	270.3	269.1	270.1	268	269.5	269.9	266.4	268.2	261.2	259.8	254.9
70-79	353.7	356.7	354.6	355.4	361.9	371.6	364.3	367.6	370.2	370.9	360.9	349.1	354.8	356.3	341.8	342.3	345.9	338.5	343.5	351.6	346	344.5	343	336.8	335
80+	525.1	542.4	529.1	480.7	511.7	519.4	518.2	487.1	521.5	521.9	474.8	478.1	482.5	479.9	471.9	474.6	473.2	481.4	486.3	505.2	490.4	492.6	490.9	483.1	472.3
Male	190.1	195	195.6	201.8	207.1	222.9	232.7	235.6	245	244.8	235.4	230.8	236.3	235.1	230.8	232.6	234.5	230.9	233.7	240	235	237.2	235.1	236.9	234.5
Female	183.7	178.5	181.7	192.7	198.2	208.3	212.8	215.4	227.3	228.5	226.3	227.6	232.6	236.8	232.9	235.7	236	239.9	243.7	252.9	248.3	250.5	249.5	247.1	241.3
White	197.8	202.5	205.9	215.1	224.6	239.2	246.6	252.9	267.2	266.6	264.6	265.9	275.4	277.6	271.1	273.6	276.1	276.6	282	289	284.2	285.1	285.9	284.9	279.5
Black	163.6	155.3	153.6	163.9	162.4	174.3	182.2	180.6	186.6	191.4	179.9	176.3	176.5	179.5	178.3	181.2	179.9	179	180	189	183.9	189	184.5	186.3	184.9
Other race	184	186	198	178	184	197	201	193	197	186.3	185.3	163.8	165	158.2	173.5	173.9	189.3	193.2	195.5	204.4	199.7	192.4	187.6	185.8	180.9
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	187.5	197.6	202.9	204.4	196.4	199	196.3	199.2	192.2
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	240.3	239.5	242.7	251.3	247.2	249.6	248.3	247.8	244.5
Diabetes	297.4	295.5	295.1	314.1	299.4	316	321.5	319.8	317.1	303.2	298	289.8	289.9	287.8	278.3	278.1	280.6	275	279.2	288.6	276.8	279.1	271.7	270	262.8
Hypertension	151.3	164.3	175.4	186.6	198.2	215.7	213.7	226.7	239.4	241.1	236.5	236.2	237.8	243.4	240.8	241.4	236.6	240.2	242.4	247.3	243.9	246	245.4	244.1	242.8
Glomerulonephritis	96.4	103.3	113	115.5	120.1	126.3	136.4	142.2	158.3	152.9	154.9	150.2	154.2	151.3	148.4	153.2	150.6	149.4	148.8	152.3	150.6	148.6	151.5	150.9	143.8
Other cause	214.5	207.4	200.3	203.6	210	217.9	226.2	215	222.9	231	208.9	205.6	215.4	212.2	207.8	209.4	215.4	215.7	216.7	223.4	225.4	226.5	230	232.5	231.6
<2 years	213.4	210.2	211.5	221.1	234.3	249.3	251.1	253.7	261.7	255.9	248.4	245.5	250.4	247.4	239.9	236.3	240	237.9	244.6	253.7	246.7	249.5	246.6	247.3	241.4
2-5 years	166.7	174.2	177.8	188.6	187.4	204.8	220.4	222.6	238.1	244.2	235.8	235.3	242.7	248.7	248	255	249.8	247.7	246.4	251.9	246.7	245.9	245.2	242.4	238.1
5+ years	111.2	123	128	144.4	144.8	151.9	162.9	166.4	175.3	182.1	180.7	178.1	180.3	187.1	187.7	199.4	202	210.4	211.7	219.2	220.6	225.7	225.9	227.9	229
All	187.2	187.4	189.1	197.5	202.9	216	223.2	225.9	236.5	236.9	231	229.3	234.5	235.9	231.8	234.1	235.2	235.2	238.4	246	241.2	243.4	241.8	241.6	237.6

Table H.4
Annual mortality rates per 1,000 patient years at risk: dialysis patients
from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

ADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	74	75	61	73	68	86	87	76	75	68	66	77	85.5	77.4	68.5	65.8	63	63	59.2	64.1	60.6	61.4	57.4	65.8	56.6
20-44	120.7	120.7	117.5	115.4	114.8	118.3	123	124.1	127.9	123.9	119.9	115.8	117.1	114.8	111.4	111.8	111.1	108.7	106.3	107.1	102	100.7	101.5	100.2	97.6
45-64	194.8	191.4	190.6	203.3	199.5	210.1	213.5	212.4	217.9	213	202.2	196.2	196.6	194.6	188.2	186.6	183.3	180.4	179.3	183.4	177	177	173.8	174	170.1
65-74	297	310	311.6	324.9	317.3	328.6	329.3	323.3	326.3	319.9	310	301.7	302.5	299.4	291.1	293.4	294.5	292.2	293.5	298.2	291.9	291.8	289.3	287.6	282.9
75+	416.5	406.7	420.8	428.8	445.1	449.5	442.8	434.6	449.3	449.1	432.4	422.5	420	422.9	413.1	418.6	424.4	420.9	425.6	441.1	431.1	434.8	431	426.5	423.1
Male	252.9	253.2	253.8	262.2	260.3	270.7	271.8	270.4	277.1	272	258.8	248.9	248.5	245.7	237.8	237	236.8	231.9	230.9	234.7	227.3	227.1	223.8	223.1	220
Female	230	229.4	230.9	239.8	238.3	245.7	243.9	240.8	245.4	241.1	232.6	229	231	231.4	226	226.6	224.7	224.1	224.7	230.9	224.9	225.4	223.8	221.6	216.3
White	262.8	264.6	267.9	277.4	277.7	288.6	287.3	286.2	291.8	285.5	274	268.6	270.6	270.1	260.5	259	256.2	252.2	252.4	256.9	248.6	247.4	245.1	243.1	238
Black	203.6	198.1	193.3	207.1	202.5	209.3	214	211.2	217.8	219.6	208.9	201.9	200.2	199.9	195.1	197.4	197.2	194.2	192.5	198.9	194.1	197.4	194	194.2	191.8
Other race	229.2	234.7	245.8	237.6	239.7	247.9	240.4	229.5	227	212.5	203.3	182.6	174.8	166.5	168.9	171	177.5	179.3	181.8	188.8	184.3	180.1	172.7	169.4	164.2
Diabetes	317.2	314.9	314.8	330.9	326.1	335.8	336.1	333.4	337.1	324	309.7	301.2	299.1	296.3	286.2	285.7	286.2	280.2	279.6	285.9	274.7	273.6	266.7	262.3	254.6
Hypertension	186	191.2	195.5	202.8	206.4	219.1	215.8	217.5	225.3	226.4	219.9	216.6	217.7	219.4	214.3	215.5	210	208.5	208.9	213.7	207.7	208	206.5	205.8	203.2
Glomerulonephritis	159.3	156	165.2	166.5	166.8	171.9	174.4	172.9	186	183.1	182.5	175.3	177.5	173	168.1	170	169.7	166.5	165.8	168.8	164.7	165.1	165.7	165.6	161.2
Other cause	227.6	228.5	225.4	228.8	229.6	238	244.1	235.3	238.1	241.1	223.5	215.6	218	217.9	213.7	212	214.7	213.2	214	219.8	218.1	219.8	220.9	223.1	223.2
<2 years	272	263	261	265	266	276	273	267	270	260.8	246.2	236.7	237.1	232.5	223.3	217.6	215.7	210.5	211.2	216.7	209.9	210.1	207.3	206.7	202
2-5 years	237	238.1	239.8	248.2	242.2	252.9	257.2	256.4	265.1	262.9	251.7	246.6	248.2	249.3	243.4	245.4	241.6	235.5	232.1	234.2	225.5	222.9	219.5	216.1	211.2
5+ years	191.6	204.6	210.9	229.1	227	234.2	236.6	239.5	247.3	246.1	242.2	238.3	237.8	238.8	235.7	243.3	247.1	251.7	254.6	261.4	256.9	259.9	258.7	257.7	255.7
All	241.9	241.7	242.8	251.4	249.8	259.2	259.4	256.9	262.7	257.8	246.8	240	240.5	239	232.2	232.1	231	227.9	228	232.8	226	226.1	223.6	222.2	218

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

Table H.4.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: dialysis patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

ALL	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	64.1	75.7	71.7	88.1	87.9	80.4	78.6	68	66	78.8	86
20-29	94.4	94.1	87.4	90.4	93.3	89.6	98.3	98	90.3	87.5	87.1
30-39	119.9	115.3	116.9	121.6	126.7	129.6	129.7	124.2	120	114.8	114.8
40-49	142.4	148.3	141.9	148.5	156.2	154.8	155.8	148.4	144.2	139.8	143.6
50-59	183	195	192	202	201	199.8	207	202.3	192.6	184.5	184.6
60-64	248.9	252.2	252.4	262.1	264.9	260.5	263.5	257.6	243.7	238.2	239.4
65-69	302.6	313.9	305.9	312.9	315.7	303.1	306.6	298.1	289.8	279.8	276.1
70-79	371	375	382	396	386	382	384	377	364	352	354
80+	541.9	516.1	526.3	535	528.7	499.2	527.4	524.4	479.9	471.1	476.4
0-19	64	74.1	71.1	89.4	90.9	79.2	78.8	69.1	68.2	82.3	95.2
20-44	118.2	115	115.7	119.3	124.2	125	128.5	124	120	115.5	116.8
45-64	194.7	205.3	202.9	213.5	216.6	214.5	219	213	202.2	195.7	196.4
65-74	323.5	332.4	327.6	338	336.7	328.2	329.7	321.6	310.4	300.8	301.9
75+	444.7	449	466.9	471.9	456.8	444.8	456.5	452.8	434.2	422	420.3
Male	266.5	267.4	267.2	278.9	278.6	274.3	280.2	273.7	259.1	248.2	248.3
Female	240	246	245	251	247	243	247	241	232	226.8	229.6
White	283.1	286.3	285.9	296.4	292.7	289.2	293.6	285.6	272.6	265.2	267.9
Black	201.2	210.2	203.9	213.1	217.8	214	220.1	221.3	209.3	201.4	200.3
Native American	179.1	170.9	199.5	214.4	220.2	229.2	222.6	215	231.5	201.6	199.7
Asian	238.6	222.6	253	253.1	232.5	219.7	212.8	184.6	183.4	167.4	165.4
†Hispanic											
†Non-Hispanic											
All	254.1	257.4	256.6	266	264.3	260.1	264.9	258.5	246.5	238.5	239.7

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	74	65.7	63.6	61	60.2	54.5	57.8	52.7	54.5	52.1	59.2	51.3
20-29	81.6	77.9	74.7	76.8	73.7	70.7	71.1	65.1	69.6	70.3	75.3	73.3
30-39	112.2	107.6	107.5	107.3	104.2	101.5	103.6	97.9	97.5	96.7	92.5	89.2
40-49	140	134.6	134.3	130.8	130.3	128.1	130.1	124.8	125.4	125.3	125.4	121.8
50-59	182.8	179.1	176.6	172.9	169	168	172.1	166	166.3	165.2	164.2	160.6
60-64	237.6	228	225.5	223	218.7	219.3	223.8	216.5	215.1	209.7	212.9	209.2
65-69	271.7	264.6	264.9	264.9	261.2	261.8	264.3	258.1	259.4	255.6	255.5	249.8
70-79	351	339	337	339.1	331.9	333.4	341.8	335	335.3	333.2	328.8	325.5
80+	476	462.8	468.6	471.3	471.7	477.8	501.5	484.6	486.7	481.1	475.2	465.8
0-19	76.6	68.5	65.7	62.4	61.5	55.6	59.2	55.6	55.6	53	60	52.8
20-44	114.3	110.5	110.3	109.5	107	104.8	105.5	100.5	99.3	100.5	99.4	97
45-64	193.7	186.8	184.1	180.6	177.1	176.1	180	173.7	174	171.2	171.6	168
65-74	298.1	288.6	288.6	288.8	284.7	285.3	290	283.6	283.6	281.5	280	275.4
75+	420.9	409.6	411.3	415.6	408.5	412.7	428.1	417.7	420.8	417.1	412.3	408.2
Male	244.4	236	233.7	233	227.4	226.2	230	222.7	222.4	219.4	218.7	215.4
Female	229.2	223.3	222.9	220.6	219.5	220	226.3	220	220.8	219.5	217.1	211.8
White	266	255.7	252.4	249.2	244.6	244.6	249.3	241.1	240	237.6	235.4	229.9
Black	199.9	194.6	196.5	196	193	191.7	198.8	194.1	197.6	194.4	194.5	192.4
Native American	198.1	193.3	180.2	190.9	187.8	196.3	198.8	215.1	211.4	210.5	199.5	191
Asian	151.2	156.6	161.8	167.7	166.3	166.5	168	157.3	155.2	150.2	149.9	148.7
†Hispanic				187.5	197.7	202.9	204.4	196.4	199	196.3	199.2	192.2
†Non-Hispanic				240.3	239.5	242.7	251.3	247.2	249.6	248.3	247.8	244.5
All	237.2	229.9	228.7	227.1	223.4	223.2	228.1	221.2	221.5	219.2	217.7	213.5

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.4.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: dialysis patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

DIABETES	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	119.4	144.2	132.6	163.6	166.4	149.6	142.8	118.6	115.4	138.8	147.7	
20-29	168.5	171.9	154.6	161.3	167.8	159.7	173.1	165.9	152.3	146.4	142.7	
30-39	203.6	198.9	197	206.3	217.5	219.5	218.2	199.2	190.8	182.4	176.1	
40-49	231.5	245.5	227.5	236.5	252	248	243.5	229.2	219	212.6	213	
50-59	272	294.9	286.3	298	293.9	293	298.5	279.6	262.4	245.9	247.4	
60-64	352.1	359.2	353.3	362.8	360.3	352	346.3	328.6	309.2	300.5	303.2	
65-69	398.4	418.3	399.1	402	406.5	388.5	386.5	369.7	358.4	342.4	331.8	
70-79	457.2	459.5	462.4	482.4	460.2	457.1	453.1	441.3	422.3	408.6	411.1	
80+	604.2	578.9	588.2	592.7	583	547.8	598.8	591.1	512.9	509.8	518.9	
0-19	118.5	138.7	130.2	166	173	144.9	141.1	120	119.3	145.3	166.2	
20-44	203.6	199.3	198.7	207.3	215.2	212.6	217.1	202.4	193.9	186	182.4	
45-64	284	305.9	294.7	306.9	309.8	306.7	306	288.3	271.1	259.7	261.4	
65-74	423	438.2	421.3	429	425.9	411.2	405.6	390.7	375.5	360.6	359.3	
75+	505.9	516.3	546.6	551.2	510.1	506.2	524.5	510.5	480.1	471.2	463.6	
Male	351.4	354.5	349.6	362.2	360.8	353.4	358.5	340.6	319.5	303.6	303.3	
Female	326.3	339.3	329.5	339.4	335.9	328.8	328	314.7	296.9	292.3	292	
White	387.1	395.5	392.9	406	402.2	396.4	395	374.8	353.4	342.8	343.2	
Black	235.3	252.3	233.1	244.7	250.4	242.9	253.2	250.5	233.6	224.8	223.1	
Native America	206.2	200.3	275.6	258.6	275	255.1	264.6	262.9	259.1	240.1	236.4	
Asian	444.2	383.3	374.5	360.1	322.9	305.9	314.3	264.8	245.1	215.7	226.1	
†Hispanic												
†Non-Hispanic												
All	339.4	347.2	340.2	351.4	349.5	342.3	344.6	328.6	309.3	298.5	298.2	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	123.1	108.6	103.4	100.5	99.3	89.5	94.5	84	87.9	84.3	93.8	79.9
20-29	133.2	127.8	119.8	125.5	121.1	115	115.2	100.9	111	113.1	120.8	113.3
30-39	168.6	158	158.7	163.7	159.9	156.6	159.3	149.9	149.4	150.7	141.5	134
40-49	203.7	195.2	193.6	189.2	187.7	182.2	186.1	175.5	173.2	170.4	167.5	161.4
50-59	244.7	234	229.2	225	218.2	216.1	219.4	209.2	209.7	200.8	197.7	193.1
60-64	292.8	279	273.4	268.4	256.8	259.3	263.4	252.6	246.4	236.9	237.8	233
65-69	323.7	310.4	309.5	308.5	305.6	303.6	305	294.2	293.2	284	280.3	272.2
70-79	412	396.1	387.5	386.7	371.4	373.1	382.3	371.1	370.5	365.2	358	349.4
80+	521.1	508.3	513.7	529.1	521.7	521.3	557.3	529.5	531	516.1	507.4	486
0-19	125.5	111.4	105.8	101.7	100.2	90.2	96.2	89.6	88.9	84.5	93.5	81.8
20-44	174.7	167.6	167.9	170.8	167.6	162.9	163.8	155.6	152.4	154	149.4	144
45-64	254.7	242.3	237.5	233	225.5	224.8	229.3	218.6	217.2	208.6	207	202
65-74	355.1	340.2	335.1	333	326.1	325.6	329.6	318.9	317.5	310.6	305.3	295.7
75+	467.5	456	455.6	464.4	447.5	448.6	468.7	451.1	453.3	444.5	437.6	427.3
Male	298	284.8	279.9	282.1	271.8	269.5	275.9	263.9	263.3	255.8	251.8	244.3
Female	288.8	278.5	275.5	271	267.4	267.4	274.6	262.2	261.5	256.3	252.7	243.8
White	340.4	324.6	317.4	315.3	303.8	301.7	308.3	292.9	290.6	283	277.9	268.6
Black	217.9	209.6	212.9	211.6	211.3	210.2	219.1	213.3	216.9	212	210.2	204.4
Native America	216.9	210.5	204.6	218.1	215.4	217.6	220.7	221	212.4	216.4	207.4	196
Asian	193.7	200.9	202.5	221.3	218.7	220.3	214.2	197.2	188.2	184.6	180.5	179.6
†Hispanic				227.6	239.2	248.9	240.5	230.1	233.3	224	226.9	222.07
†Non-Hispanic				289.1	281.2	284.7	297.6	286.2	288.6	281.9	279.4	271.91
All	293.6	281.7	277.8	277	269.4	268.3	275	262.9	262.4	255.8	251.8	243.7

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.4.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: dialysis patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

HYPERTENSION	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	24.3	28.7	31	37.8	36.8	34.6	35.2	33.8	32.4	42.2	48.6	
20-29	41.3	41.1	42.9	44.4	45.2	44.3	48.8	55.1	48.8	51.2	49.8	
30-39	59.7	57.2	64.2	65.2	66.7	69	70.9	73.6	73.9	69.3	74.5	
40-49	80.9	83.2	87	89	92.8	93.1	96.4	94.8	95.2	93.5	103.9	
50-59	124.6	132.5	134.8	146.9	148.2	146.5	156.1	158.1	156.4	156.1	156.4	
60-64	185.6	193.9	195.3	213.6	215.5	218.7	220.6	226.5	218.3	220.1	213.3	
65-69	254.2	266.2	261.8	272.8	272.6	264.8	277.4	269.3	266.8	259.9	261.6	
70-79	326	334.5	352.9	374.7	356	365.1	369.4	369.7	355.4	343	344.9	
80+	545.9	519.9	526.9	538	519.8	507.4	527.7	529.9	504	481.7	478.4	
0-19	25.7	30.8	32	39.5	39.6	37.2	39	36.4	36.1	46.7	58.7	
20-44	58.7	58.6	61.3	60.8	66.7	69.1	73.2	74.8	73.9	71.1	76.1	
45-64	141.3	148.1	152.7	167.2	168.8	169	174.2	176.5	172.8	173.2	172.2	
65-74	270.6	280.1	286.9	303.8	297.4	298.7	306.5	303.7	295	286	290.7	
75+	430.2	435.6	450.6	461.7	439.2	441.2	452.8	454.1	436.6	422.6	421	
Male	208.7	211.4	215.8	232.2	233	231.2	239.1	238.3	229.6	221.7	222.9	
Female	191.1	195	202.8	208.5	197.5	201.3	207	207.9	203.7	201.9	204.9	
White	224.3	226.6	230.9	245.1	237.6	239.1	249.2	249.6	241.9	238.5	243.4	
Black	163.5	166	166.5	173.3	176.2	173.7	178.3	181.6	176	171.8	169.8	
Native American	107.4	154.4	143.3	208.4	203.9	226.1	180.1	176	212.8	152.2	175.6	
Asian	105.5	127.6	206.1	188.5	183.3	182.9	167.2	148.5	150.6	133.8	116.6	
†Hispanic												
†Non-Hispanic												
All	200.4	203.8	209.7	221.2	216.7	217.1	224.2	224.1	217.3	212.5	214.3	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	42	36.3	37.2	32.5	31.6	28.3	30.3	29.5	30.3	28	32.3	30.1
20-29	47.8	42.5	43.9	40.3	40.5	38.5	39.1	38.2	39.8	38.6	41.5	44.9
30-39	73	72.5	73.8	67.6	63.8	61.4	63.5	61.1	61.4	58.7	57.8	57.3
40-49	102.2	97.3	94.1	88.4	91.6	93.6	94	92.7	93.7	93.8	97.3	92.7
50-59	151.2	152.8	153	147.3	142.6	141.5	150.6	142.5	145	146.5	145.1	141.9
60-64	223.3	211	217.3	207.2	203.4	205	211.3	206.8	203	194.4	200	194.7
65-69	258.3	258.4	259.9	258.5	251.9	252.6	253.5	243	249	248	243.3	241.4
70-79	347.3	333.2	333.2	329.5	328.4	329.3	336.6	329.7	328.6	326.1	321.2	319.3
80+	479.9	475.9	469.9	466.2	468.6	474.2	485.5	478.5	480.8	477	471.1	464.1
0-19	49.2	43.6	42	36.4	35.4	31.8	33.7	32.9	33.4	31.7	36.7	33.2
20-44	79	77	73.5	66.3	66.8	66.9	66.3	63.2	63.5	64.7	65.9	65.6
45-64	171.8	165.5	167.8	160.6	156.9	156.8	163.6	158	157.8	154.3	156.3	151.5
65-74	288.7	283.2	285.8	283.1	279.5	278.6	283.6	275.2	275.6	274.2	269.9	271.2
75+	427.4	417	412.2	409.9	410	414.4	423.3	418.1	420.9	418.9	413.5	408.6
Male	218.3	211.9	210.5	205.1	202.4	204.4	207.6	200.2	200.6	198.6	199.2	197
Female	209.1	205.9	207.3	202.7	201.9	199.9	206.8	203.2	204.8	203.6	200.5	196.5
White	242	234	232.3	224.5	222.5	221.9	226.7	219.9	220	218.3	216.9	212.4
Black	171.5	169.6	172.3	171.4	169.6	170.9	178	173.3	175.8	174.9	174.4	173.9
Native American	187.2	198	162.9	181.2	163.9	186.7	185.6	225.3	244.2	230.6	205.5	194.4
Asian	116.8	121.1	139.3	134.5	135.7	137.6	136.3	130	128.5	123	127.6	126.9
†Hispanic				191.8	201.9	192.8	196	191.1	192.5	198.7	195.1	185.21
†Non-Hispanic				239.4	242.8	245.9	251.1	248	250.5	249.4	248.4	248
All	214	209.2	209	204	201.9	202.4	207	201.5	202.6	200.9	199.7	196.5

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.4.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: dialysis patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

GLOMERULONEPHRITIS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	18.5	22.4	22.2	28.4	29.4	30.4	31.6	29.1	29.9	35.1	36.5	
20-29	32	32.2	31.4	33	36.1	38.3	43.6	44.1	45	39.9	39.5	
30-39	46	44.9	48	49.3	53.6	62.6	66.6	67.5	65	62.6	60.8	
40-49	64	65.9	67	70.4	76.4	79.7	83.4	78.5	81.6	81.8	83.4	
50-59	101.2	107.3	104.9	111	113	115.7	126.3	129.9	132.6	126.4	125.1	
60-64	149.3	154.8	157	161.9	167.6	168	185.9	180.7	174.1	170.2	180.1	
65-69	210.8	218	213.6	220.3	217.6	214.3	230.2	222.7	220.9	215.7	208.1	
70-79	288.7	287.4	297.4	300	299.7	291.5	310.1	306.1	303	287.2	293.2	
80+	470.3	442.9	454.5	452.7	441.4	417.9	454.3	436.3	432.6	417.6	431.1	
0-19	19.5	23.1	23.6	30	29.4	30.1	31.8	29.7	30	37	38.6	
20-44	42.9	43.5	44.9	46	51.4	58.6	62.9	62.1	61.8	60	58.7	
45-64	107.2	113.1	114	119.3	123.1	124.2	135.9	134.9	134.3	130	133.2	
65-74	229.7	232	230.7	239.9	238.1	234.4	253.3	248.4	243.3	236.4	235.5	
75+	364.9	368.9	380.1	384.4	382.3	364.7	385.2	373.8	381.6	357.9	365.7	
Male	179.9	180.5	185.2	189.7	194.4	193.1	205.5	200.5	195.9	190.5	190.6	
Female	155.8	155.5	154.5	158.8	155.2	153.7	167.5	166	169.2	161	165.7	
White	179.3	177.7	176.4	178.5	179.1	175.3	190.1	190.6	186.4	180.7	186.9	
Black	148.3	157.5	162.3	162.8	166.7	172.3	187.8	179.1	179.1	170.9	166.6	
Native American	194.3	106.7	116.9	178.9	166	191.6	173.5	189.1	242.6	241.4	210	
Asian	120.5	110.8	145.6	190.1	178.8	147.6	128.7	105.6	132.8	121.7	129.2	
†Hispanic												
†Non-Hispanic												
All	168.5	168.8	170.7	175	176.1	174.5	187.5	184.3	183.7	176.8	179	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	35.1	29.6	29.1	27.6	28.3	24.9	25.8	24.7	25.7	24.1	29.7	26.3
20-29	40.1	35.4	36.8	34.7	36.9	34.8	35.4	33.8	35.8	35.4	41.6	39.3
30-39	61.9	57.9	56.3	53.7	55.7	52.5	54.5	52.5	52.5	51.9	49.7	49.3
40-49	83.9	82.4	83.7	82.4	82.7	81.8	79.7	79.7	81.1	86.5	87	83.9
50-59	126.6	124.6	124.5	120.2	119.1	117	123.1	118	120.1	123.3	124.1	120
60-64	173.4	168.5	164.8	170.9	169.1	170	169.4	160	163.3	163.2	162.8	165.2
65-69	209.4	206.4	209.5	210.2	204.6	205.8	208.1	206.3	208.6	203.4	211.4	198.1
70-79	278.5	267.2	273.4	279.3	269.3	271.4	275.7	272.5	269.8	270.8	266.7	261.7
80+	416.1	401.5	415.2	409.2	407.7	412.3	435.8	419.7	418.2	418.4	403.7	401.3
0-19	36	30.6	29.5	29	29	25.2	25.6	24.7	25.5	24.6	29.2	26.6
20-44	60.5	56.6	57.6	54.5	56.2	53.8	54.7	53.9	53.4	55.9	56.3	54.6
45-64	130.3	127.6	125.4	125	123.9	122.4	123.7	118.2	121.7	124.1	124.8	123.2
65-74	228.8	224.2	227.5	232.6	229.6	229.1	228.2	226.5	225.9	227.7	230.1	220.8
75+	354.4	340.2	353.4	352.1	336.5	344.3	361.7	353.8	353.5	350.3	341.3	337.6
Male	187.4	179.1	181.5	179.2	175.6	171.9	176.5	170.8	170.8	171.1	171.6	168.4
Female	160.9	159.5	161.4	163.4	161.9	166	169.2	167.2	167.6	169	167.4	162.7
White	184.1	180.1	180.9	181.3	179.5	180.5	184.3	181.9	178.3	180.5	179.9	174.5
Black	163	156.5	159.6	158.2	152.8	152	156.9	149.4	158	157.2	155.9	155.5
Native American	157.5	130.4	159.7	162	158.5	179.2	168.2	186.4	148.5	154.1	157.5	145.3
Asian	120.7	114.6	122.8	123.3	126.2	114.8	115	106.6	120.1	113.2	114.9	104.9
†Hispanic				92.24	89.39	99.25	100.9	93.5	104.5	101.4	105.2	99.92
†Non-Hispanic				156.4	155.9	154.4	158.2	157.4	154	157.6	156.6	149.5
All	175	170.1	172.5	172.2	169.4	169.3	172.8	169	169.3	170.2	169.8	165.7

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.4.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: dialysis patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

OTHER	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	51.5	55.3	53.1	65.1	60.2	56.9	59.4	55.4	52.1	55.6	65.7
20-29	79.4	72.3	68	69.3	68.7	66.1	75.8	80.4	72.9	71.4	79
30-39	105.8	96.7	96	101	100.2	103.4	102.4	108	104.5	99	107
40-49	124	123.6	119.6	130.3	131.3	130.1	135.5	133.2	127.4	121.2	127.3
50-59	166.3	169.3	168.7	177.7	177.2	173.6	180.5	188.2	171.9	165.4	163.3
60-64	228.9	222.2	227.1	234.3	244	238.4	243.6	243.2	224	213.7	214.9
65-69	276.6	279.9	279.9	291.8	296.5	279.5	274.9	282.8	266	254.9	257.6
70-79	347.4	352.7	354.2	359.6	367.2	351.7	348.4	343.8	330.4	321.4	322.6
80+	504	478.6	492.8	511	529.2	492.5	480.8	483.3	440.7	442.5	442
0-19	50.6	54.7	53	64	59.5	56.7	58.7	54.3	51.3	53.5	62.4
20-44	103.7	95.2	93.8	97	95.9	97.6	99.1	103.6	100.2	96.9	104.9
45-64	176.7	178	179.2	188.8	192.9	188.8	196.4	198.3	181	172.4	171.3
65-74	295.8	301.9	300.4	309.9	314.1	301.1	297.7	296.6	280.9	274.8	277.6
75+	426.7	421.5	425.1	436.4	454.4	423.7	415	424.5	401.5	392	391.2
Male	248.3	245.7	244.8	255.5	257.6	252.9	252	256.5	237.7	229.9	230.3
Female	206.3	205.3	207	214.6	220.6	206.9	210.9	209.9	200.9	195.7	201
White	234.8	232.7	230.2	236.5	239.8	230	234	231.8	220.2	213.9	217.9
Black	225.6	228.2	232.6	243.8	252.4	243.4	240.1	252.6	230	220.8	222.9
Native Ame	227.9	172.9	184.8	156.6	164.7	201.5	232.5	193.1	194.2	172.2	152
Asian	122.4	105.7	126.9	173	157.3	144.5	129.5	124.6	135.2	146.5	140.3
†Hispanic											
†Non-Hispanic											
All	228.5	226.7	227	236.5	240.9	231.8	233.5	235.5	221.2	214.7	217.8

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	60.9	57.3	56.3	54.9	52.8	49.6	52.5	49.3	49.5	47.9	55.1	46.9
20-29	71.4	73.4	68.5	72.2	63.3	62.6	62.8	61.1	62.2	64	65.5	66.1
30-39	110	112.8	111.2	112.5	102.3	98.2	98.6	92.7	91.8	89	88	85.1
40-49	129.7	124.3	126.3	124.1	120.2	115.7	119.6	113.8	118.8	119.5	119.8	120.1
50-59	165.1	163.5	161	158.8	157	157.7	159.9	162	156.9	160.3	162.4	161.5
60-64	219.4	214.8	207.3	212.8	215.1	212.5	219.3	218.5	221.9	223.2	229.2	224.9
65-69	252.6	249.5	249.3	252.1	250.8	252.5	257.4	259.7	263.3	264.1	272.2	270.5
70-79	320.8	312.8	311.5	322.8	323.5	325.9	334.9	335.7	341.6	341.8	342	348.2
80+	449.8	425.1	436	436.2	449.9	464	482.5	475.6	478.8	480.8	483.2	485.8
0-19	59.2	55.6	55.3	53.4	51.9	49	52.4	49	49.4	47.5	55.2	46.7
20-44	105	105.2	106.1	107.2	97.3	94.5	95.3	89.6	90.7	89.8	90.7	90
45-64	173.6	170.2	164.6	164.3	163.9	161.6	165.1	164.9	165	167.7	169.3	167.7
65-74	274.1	267.6	268.9	274.1	272.2	275.1	282.5	285.5	289.4	290	294.4	294.4
75+	395.3	384.2	386.8	395.3	403.2	411.4	423.8	417.8	424.6	425.8	429.5	437.6
Male	230.8	227.2	225.4	228.1	222.9	221	221.9	220.6	223.6	224.4	227.8	227.4
Female	201.4	195.5	196.6	198.6	201.1	203.8	214.5	212	213.3	215.1	216.4	216.9
White	215.6	209.3	209.5	210.3	212.8	216.3	220	218.4	220.7	224.4	226.3	226
Black	228.3	224.1	223.4	229.7	220.8	215.4	221.3	220.6	222.2	218.8	222.5	223.3
Native Ame	196.2	190	166.3	167.2	184.2	174.3	191	200.4	196.4	202.9	204	204.1
Asian	137.1	146	137.1	136.3	130.2	133.8	156.8	150.7	153.4	145.7	142.9	146.5
†Hispanic				141.2	147	139.7	167.2	154.8	142.5	150.2	157.1	137.7
†Non-Hispanic				222	222.2	224	228.8	232.5	235.3	238.5	240.6	241.9
All	217.9	213.1	212.2	214.5	212.9	213.4	219	217.2	219	220.2	222.5	222.7

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.4.2 (supplement)

Annual deaths per 1,000 patients: dialysis patients, by primary diagnosis*period prevalent patients*

ALL	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	38	44.9	42.7	52.9	52.1	47.9	48.5	43	42.9	51.6	57.2	
20-29	63.1	62.6	59.2	61.1	62	60.5	67.5	68.1	63.7	62.1	62.9	
30-39	85.5	82	84.9	87.9	90.3	92.8	93.6	90.7	89.1	86.1	86.8	
40-49	104.8	107.9	106.2	109.9	114.4	113.4	115.4	110.1	108.6	105.9	109.5	
50-59	134	144.3	145.2	152.2	151	150.3	155.6	151.9	145.8	140.8	141.9	
60-64	180.4	183.1	187.5	195.1	196.7	194.3	197	192.5	183.4	179.6	181.4	
65-69	216.1	221.8	222.3	227	228.5	220.3	224.6	218.5	214.4	208.1	207	
70-79	252.6	254.1	266.4	275.2	270.3	269.9	272.8	268	261.4	254.2	257	
80+	322.5	321.7	342.9	342.9	346.7	332.8	350.9	347.7	324.6	322.5	329.2	
0-19	37.8	44.2	43	53.6	53.8	47.8	49.2	44	44.5	54.4	63.2	
20-44	83.1	81	83.1	85.4	87.7	88.9	92.5	90	88.5	85.9	87.7	
45-64	142.7	150.8	152.6	160.1	161.7	160.4	164.1	159.5	152.9	148.8	150.3	
65-74	226.4	231.5	235	242.3	240.9	236.6	239.6	233.9	227.9	222	224.1	
75+	289.5	291.6	310.7	313.2	310.2	305.2	314.2	310.3	301.3	295.3	296.5	
Male	186.8	189.1	193.9	200.7	201.3	199.2	204.4	199.5	191.1	184.8	186.4	
Female	170.7	176.1	180.5	185.2	182.7	181.4	184.8	180.7	175.8	172.9	175.8	
White	194.3	198.5	203.6	209.8	207.5	206	209.9	204.2	197.4	193.4	196.6	
Black	155	158.6	159.7	165.9	169.5	167.5	173.1	173.4	165.7	160.6	160.8	
Native American	132.9	128.1	150.6	160	169.2	173.4	171.5	162.4	174.1	157.2	158	
Asian	133.5	145.6	169.3	170.9	165.2	159.9	157.5	140.5	139.9	129.2	129.9	
†Hispanic												
†Non-Hispanic												
All	179.3	183	187.6	193.5	192.9	191.1	195.4	190.8	184.1	179.4	181.5	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	51.8	44.8	43.3	41.2	42.1	38	39.6	36.5	37.5	35.6	40.3	35.4
20-29	59.8	57.3	55.8	57.4	55.9	54	54.6	50.5	53.7	54.3	58.3	57.2
30-39	85.2	82.2	83.3	83.5	81.6	80.1	81.9	78.3	78	77.4	74.3	72
40-49	107.5	104.5	105.2	102.8	103	101.8	103.7	100.5	101.2	101.1	101.8	99.4
50-59	141.4	138.8	138.7	136.2	133.4	132.8	136.2	132.6	132.9	132	132	129.9
60-64	180.9	174.8	174.1	172.2	169.3	170	173.5	169.1	168.2	164.2	167.2	165.2
65-69	205.1	200.8	202.6	202.1	199.3	199.9	201.9	198.7	199.9	196.5	196.8	193.3
70-79	257	249.4	250.5	251.1	246.2	248	253.5	250.8	251.1	249.2	247.8	245.8
80+	332.2	324.9	329.4	329.4	327.8	331.6	344.9	338	341	336.8	335.6	331.2
0-19	54.7	47.3	45.2	42.5	42.8	39	40.7	38.7	38.6	36.6	41.4	36.8
20-44	86.5	84.2	85.1	84.8	83.6	82.6	83.3	80.2	79.4	80.4	79.9	78.2
45-64	149	144.5	144	141.6	139.1	138.7	141.9	138.1	138.4	136.3	137.4	135.3
65-74	222.8	216.9	218.8	218.4	215.4	216.2	219.6	216.6	216.8	214.7	214.4	211.6
75+	299.4	293.1	296	297.7	292.5	295.9	305	300.7	303.3	300.5	299.5	297.5
Male	184.9	180.1	180.1	179.4	175.3	175	177.8	174.1	174.2	171.8	172.4	170.4
Female	176.6	172.8	174.1	172.4	171.5	172.1	176.6	173.3	174.1	172.9	172.1	169
White	196.5	190.5	190.3	187.9	184.7	185.2	188.3	184	183.7	181.9	181.5	178.2
Black	161.4	157.7	160	159.7	157.3	156.7	162.4	159.9	162.5	159.7	160.4	159.5
Native American	160.1	155.6	147.6	155.7	154.4	159.2	161.8	172.4	169.5	169.2	163.7	157
Asian	120.5	125.2	130.1	134.5	133.8	134.8	135.8	129.6	128.1	124.3	125.2	124.5
†Hispanic				143.23	153.24	157.81	159.32	152.62	157.38	155.19	157.82	153.5
†Non-Hispanic				184.46	183.53	186.04	192.24	190.79	192.05	191	191.55	189.8
All	180.9	176.6	177.3	176.1	173.4	173.6	177.1	173.6	174.1	172.2	172.1	169.6

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.4.2 (supplement-continued)

Annual deaths per 1,000 patients: dialysis patients, by primary diagnosis*period prevalent patients*

DIABETES	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	64.8	78.3	72.4	90.5	91.3	82.1	81.4	69.2	69.5	84.5	91.9	
20-29	103.1	104.6	95.8	100.1	102.5	98.9	109.4	105.7	99.2	95.9	95.9	
30-39	134.6	129.9	132.3	138.6	143.9	145.2	145.9	134.7	131.8	127.8	124.7	
40-49	157.2	164.7	158.6	161.7	170.8	168.2	167.7	157.8	154.3	150.7	152.8	
50-59	176.8	199.7	196.7	205.7	203.1	203.9	208.2	195.8	185.9	176.4	180	
60-64	231.4	238.4	239.1	248.8	247.1	243.8	241.4	230.1	218.4	213.4	217.5	
65-69	262.7	273.7	267.6	269.2	272	261.7	264	253.2	248.4	238.8	234.9	
70-79	286.5	289.9	300.7	314.7	302.2	305	304.4	296.8	287	280	283.8	
80+	317.8	338.4	362.7	357.5	363.4	346.1	376.7	370.4	330.5	334	344.6	
0-19	63.3	75.6	72.3	91.9	94.8	80.8	81.9	71	72.2	89.8	103.3	
20-44	130.5	128.9	131.2	136.7	140.4	139.8	145	136.1	133.3	129.2	128.5	
45-64	189.1	205.8	203.1	211.9	213.6	212.5	213.1	201.4	191.9	185.5	189	
65-74	271.3	282.2	279.1	285	282.2	276.4	276	266.7	259.1	250.6	252.3	
75+	304	314.9	338.5	341.9	329.2	329.2	342.7	332.3	317.3	314.5	313.7	
Male	225.2	232.6	235.4	242.3	242.4	239.4	244.6	233	222	213.5	216.4	
Female	209.3	223.1	224.2	231.8	229.9	227.6	228.5	220.2	210.8	208.9	210.4	
White	242.5	252.4	257.7	266	263.4	262.1	262.4	249.8	239.7	235	237.8	
Black	169.9	179.9	172.9	181.2	185.3	180.9	190.5	188	177.1	171.5	172.5	
Native Ameri	145.1	141.8	196.5	182.3	198.2	186.1	192.1	189.7	190.4	181.5	181.5	
Asian	220.6	238.6	241.9	224.8	212.9	207.7	219.2	190.1	176.1	158.6	169.2	
†Hispanic												
†Non-Hispanic												
All	217.8	228	230.1	237.2	236.6	234	237.2	227	216.9	211.4	213.7	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	81.9	69.8	66.5	63.7	66	58.9	61.2	54.8	57.2	54.4	60.4	52
20-29	92.8	88.6	84.2	87.7	87.4	83.1	83.7	73.7	80.8	82.3	88	83
30-39	120.7	113.3	115.7	120.1	118.5	117.2	119.5	113.8	113.7	114.4	107.6	102.3
40-49	147.5	143.1	143.6	140.8	140.8	137.5	141	134.5	133.6	131.6	130.4	126.4
50-59	179.2	172.7	171.7	168.9	164.1	163.3	166.1	160.6	161.2	155.3	154.5	152.1
60-64	212	204.1	201.7	198.1	190.6	193.2	197.3	191.5	187.7	181.7	183.8	181.4
65-69	232.7	225.4	226.5	225.5	224.2	224	225.6	220.3	220.3	214.8	213.4	209.1
70-79	286.9	278.8	275.6	274.7	265.4	268.6	275.1	270.3	270.5	267.3	264.8	260.4
80+	351.5	344.6	347.3	351.7	346.3	347.1	367.7	356.8	360.7	351.8	350.5	339.9
0-19	85.5	72.8	69.2	65.3	66.1	59.8	62.7	58.9	58.6	55.4	61.3	54.1
20-44	124.6	120.1	122.1	124.9	123.7	121.4	122.7	117.9	115.8	117.2	114.1	110.3
45-64	185.7	178.3	177	173.8	169.1	169.2	173.2	167.2	166.7	161	161.2	158.6
65-74	252.2	244.5	243.1	241.4	237.4	238.7	242	237.1	236.7	232.7	230.5	225.4
75+	319.7	313.6	315.2	318.7	308.1	310.8	323.4	315.7	318.4	313.1	311.9	306.8
Male	214.8	207.6	205.6	206.6	199.9	199.6	204.4	198.6	198.7	193.9	192.7	188.3
Female	210.9	204.7	204.8	201.6	199.6	200.6	206.1	199.3	199.7	196.3	195.3	190.3
White	238.5	229.7	227.2	225.4	218.4	218.3	223	215	214.3	209.8	208.2	203
Black	171.1	165.7	168.8	167.4	167.5	167.2	174.5	171.9	174.7	170.7	170.4	167
Native Ameri	169.6	166.5	162.5	172.3	171.5	173.5	175.9	177.1	171.5	174.3	168.9	161.2
Asian	147.8	153.7	156.1	168.7	167.4	170.7	166.5	156	149.9	147.8	146.8	146.8
†Hispanic				168.64	180.37	188.67	183.1	175.72	181.39	174.95	177.29	175.17
†Non-Hispanic				212.42	207.52	210.98	220.49	214.53	215.84	212.04	211.79	207.52
All	212.7	206	205.1	204.2	199.5	199.9	205	198.8	199.1	194.8	193.6	189

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.4.2 (supplement-continued)

Annual deaths per 1,000 patients: dialysis patients, by primary diagnosis*period prevalent patients*

HYPERTENSION	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	15.5	18.8	19.9	24.6	23.4	22.6	23.6	23	22.6	29.3	34
20-29	28.4	29.6	31.4	32.7	32.3	32.5	36	41.1	36.4	38.1	37.1
30-39	43.1	42.9	47.6	48.4	49.1	51.8	53.9	56.4	57.6	54.2	58.2
40-49	62.3	63.5	66.2	67.7	71	71.5	74.8	73.9	74.7	73.8	81.9
50-59	100	103.1	109.3	116.8	117.5	115.3	121.8	122.5	121.1	121.4	121.8
60-64	141.9	146.1	151.6	164.1	165	166.3	168.1	170.9	165.7	166.4	162.2
65-69	182.7	191.1	195.6	201.6	201.4	195.2	203.9	198.3	197.6	194.2	195.6
70-79	217.7	227.8	247	260.8	250	256.7	260.7	259.4	252.1	245.3	247.7
80+	327.1	321.4	338.9	338.7	336.9	331.8	346.9	346.5	334.4	324.5	325.2
0-19	17.2	20.4	21.3	25.8	25.4	24.2	26	24.6	25.1	32.3	40.6
20-44	44.4	44	46.9	46.2	49.8	51.7	55.3	57.1	57	55.1	59.1
45-64	108.3	113.6	120	129.8	130.9	130.9	134.8	135.5	133.1	133.5	133.1
65-74	189.2	198	208.5	220.4	215.9	216.5	222.3	220	215.6	210.6	214.2
75+	275.1	281.4	301	305.3	296.3	299.1	308.1	306.6	298.1	291.7	292.7
Male	149.5	153.4	161	171.4	172.9	171.2	177.3	176	171	167	168.7
Female	138.9	143.5	153.8	156.8	150.3	153.7	158.7	158.6	156.8	155.4	157.9
White	157.7	162.5	171	178.3	173.9	174.8	182.1	181.4	177.5	175.9	180
Black	128.3	127.7	133.2	137.8	140.5	139.6	143.9	146	142.8	140.1	138.9
Native American	79.9	116.6	103.8	151.8	159.4	166.2	143.7	131.7	158.3	121	142.3
Asian	64.9	83.6	134.2	134.9	136.1	136.5	125.7	115.2	116.3	105.6	94.3
†Hispanic											
†Non-Hispanic											
All	144.6	148.8	157.6	164.6	162.5	162.9	168.6	167.8	164.2	161.6	163.5

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	31.4	26.1	26.7	23.2	23	20.6	21.5	21.5	21.8	20.1	23.1	21.9
20-29	35.5	31.9	34	31.8	31.7	30.4	30.8	30.9	32	31.1	33.6	36.9
30-39	57	57.8	60.1	55.3	52.1	50.2	51.5	50.3	50.5	48.6	48	47.9
40-49	81.5	77.9	76.4	72.7	75.4	77.5	77.7	77.2	78	77.9	80.9	77.8
50-59	119.5	120.1	122.6	119.4	116.4	115.6	122.2	116.3	117.8	118.5	117.8	116
60-64	170.7	161.5	168.7	162.3	159.4	160.2	164.3	160.7	158.5	152.9	157.2	153.8
65-69	194.6	194.6	199.2	198.4	193.9	193.4	194.4	187.8	191.3	189.1	186.6	185.1
70-79	250.8	242.9	247.5	245.9	244.7	244.4	248.6	245.7	245.1	242.1	240.2	239.5
80+	327.8	328.2	330.1	328.8	327.7	330.1	336.2	333.2	334.9	332.2	330.1	327.4
0-19	37.9	31.6	30.3	26	25.8	23.5	24.1	23.9	24.1	22.8	26.4	24.2
20-44	61.5	60.8	59.1	54.1	55	55	54.2	52.2	52.3	53.4	54.7	54.7
45-64	134	129	133.1	128.7	125.9	126.1	131	127.1	126.8	124.2	126	123
65-74	214.3	210.9	216.8	215.1	212.7	211.2	214.7	209.7	209.9	207.5	205.8	206.7
75+	298.1	294	296.1	296	294.3	296.2	300.7	299.3	301.1	298.8	296.8	294.8
Male	167	163	165.3	162	159.8	161.1	163.2	158.8	159.3	157.2	158.6	157.3
Female	161.5	159.9	163.5	161	160.2	158.2	162.5	160.5	161.4	160.1	158.4	156.3
White	180.3	175.5	177.6	172.9	171.2	170.5	173.4	169.4	169.4	167.6	167.5	164.9
Black	141.1	139.8	143.9	143.8	142.2	143	148.3	145.3	147.1	145.9	145.8	146
Native American	154.1	156.7	135	150.7	138.7	150.4	150.6	176.6	188	180.9	166.7	155.8
Asian	95.6	99	114.3	110.9	112	113	111.7	108.4	108.2	103.4	107.5	107.2
†Hispanic				147.9	158.2	151.7	154.5	148.8	152.8	157.1	154.5	148.17
†Non-Hispanic				187.8	188.7	190.7	194.4	193.4	194.7	193.2	193.3	193.99
All	164.4	161.6	164.4	161.5	159.7	159.8	162.8	159.6	160.3	158.6	158.4	156.6

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.4.2 (supplement-continued)

Annual deaths per 1,000 patients: dialysis patients, by primary diagnosis*period prevalent patients*

GLOMERULONEPHRITIS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	13.7	15.4	15.4	19.7	19.8	20.3	21.5	20.2	21.3	25	26.1	
20-29	25.2	24.5	24.4	25.4	27.5	29.1	33.2	33.7	34.8	30.9	30.7	
30-39	34.7	35.3	37.5	38.9	42.3	50.1	53.5	54.3	52.5	50.7	49.5	
40-49	51.1	52.6	54.4	57.2	61.9	64.2	67.2	63.5	66.5	66.9	68.7	
50-59	87.2	88	87.5	92.2	92.9	94.7	102.6	105.1	107.5	102.8	102.1	
60-64	118.6	124.8	130.5	132.4	136.3	136.4	150.4	146.1	140.4	136.9	144.9	
65-69	166.6	169.5	169.3	175.3	171.4	170	182.4	176.5	176.1	171.7	166.9	
70-79	208.2	209.5	221.6	222.7	224.8	220.7	237.2	232.7	231.6	221.2	225.9	
80+	294.3	296.8	311.3	309.5	309	303.6	325.1	308.4	308.3	301.1	314.5	
0-19	13.7	15.9	16	20.4	19.7	20	21.6	20.6	21.3	26.3	27.3	
20-44	34.1	34	35.7	36.5	40.5	46.3	49.9	49.4	49.4	48.1	47.4	
45-64	87.5	91.7	93.8	97.9	100.4	101.1	110	109	108.8	105.6	108.6	
65-74	176	177	180.3	186.6	185.2	183.3	199.2	194.3	191.5	186.5	186.5	
75+	253.9	257.4	272.4	273.3	276.8	269.1	283	273.5	281	265.8	273.3	
Male	137.7	139.6	146.6	149.1	152.9	153.6	163.4	158.4	155.9	152.2	153.1	
Female	122.6	123.9	125.3	129.1	127.4	126.9	138.1	136.5	139.1	133.2	137.5	
White	138.3	138.3	140.1	141.6	141.8	139.9	151.5	151.1	148.1	144.1	149.4	
Black	116.2	126.2	132.6	132.8	136.9	142.8	155.6	147.5	149.2	143.4	140.8	
Native American	163.4	89.2	103.4	151.7	142.3	155.5	140.6	154	187.8	190.6	170	
Asian	85.3	73.6	103	134	136.8	117.7	103.4	85.3	107.5	98.6	107.2	
†Hispanic												
†Non-Hispanic												
All	130.6	132.3	136.5	139.6	140.9	140.9	151.2	148.1	148.2	143.4	145.8	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	25.9	21.6	20.9	19.8	20.7	18.2	18.6	18.1	18.7	17.4	21.3	19.1
20-29	30.9	27.8	29.3	27.9	29.4	28	29	27.9	29.5	29.1	34.3	32.6
30-39	50.3	47.8	46.7	45.1	46.3	43.7	45.7	44.5	44.5	43.9	42.4	42.1
40-49	69	68.8	70	68.9	69.5	69	67.5	67.9	69.1	73.4	74	71.5
50-59	104.2	102	102	98.6	98.5	97.3	102.6	99	100.5	102.6	103.9	101
60-64	140	136.2	133.4	137.8	137.3	138.3	137.8	131.6	134.5	134	133.5	135.6
65-69	167.4	165.6	168.8	168	164	164.4	166.1	165.9	168.5	163.5	168.7	160.2
70-79	216.8	208.5	215.7	218.3	211.1	214.1	217	216.8	214.7	214.8	213.3	209.6
80+	307.4	295.1	305.8	302.9	301.8	305.3	318.5	312.1	313.2	311.6	304.4	304.3
0-19	26.7	22.2	21.1	20.7	21.1	18.5	18.5	18	18.5	17.7	21	19.3
20-44	48.8	46.3	47.4	45.2	46.6	44.8	45.9	45.6	45.2	47.1	47.8	46.4
45-64	106.4	104.5	103	102.7	102.1	101.3	102.8	99.1	101.8	103.4	104.3	103.3
65-74	181.8	178.6	182.5	184.9	182.6	182.4	182	182.4	182.2	182.5	184.2	177.7
75+	268.1	256.6	268.4	266.3	257.1	263.6	274.1	270.8	271.8	268.8	265	263.3
Male	151.5	145.2	148.1	146.1	143.5	141.6	145.1	142.1	142.4	142.1	142.9	140.4
Female	134.2	132.9	135	135.9	135.1	138.2	140.3	140.1	140.7	140.9	140.6	137.9
White	148.2	145.1	146.5	146.2	145.1	146.3	149	148.7	146.3	147.2	147.2	143.4
Black	137.9	132.7	136.1	135.1	131.1	130.8	134.8	129.7	136.6	135.6	135.3	135.9
Native American	132.8	111.3	133.2	136	132.5	147.3	140.6	151.5	126.3	131.3	136.7	127.9
Asian	101.6	95.9	104	104	106.9	97.9	98.4	92.9	104	98.3	100.4	91.7
†Hispanic				74.5	73.34	81.89	84.2	78.1	87.38	83.68	87.87	83.09
†Non-Hispanic				126.2	126.4	125.4	128.7	129.1	126.4	128.8	128.7	123.4
All	143.4	139.6	142.2	141.6	139.7	140.1	142.7	141	141.6	141.6	141.9	139.1

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.4.2 (supplement-continued)

Annual deaths per 1,000 patients: dialysis patients, by primary diagnosis*period prevalent patients*

OTHER	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	34.8	37.9	36.7	43.7	40.1	38.2	40.7	38.4	37.1	40	47.1	
20-29	63	55.3	53	52.6	51.9	50.2	58.1	61.9	56.8	56.3	62.4	
30-39	87.7	78.4	80.1	81.4	79.2	81.5	80.4	84.6	82.4	78.6	84.8	
40-49	100.8	100.1	99.1	106.7	105.3	103.4	107.4	105.1	100.9	96.1	100.5	
50-59	135.1	137.6	140.3	145.3	143.2	139.9	144.6	149.2	137.5	132.5	130.6	
60-64	183.5	176.8	184.6	187.9	194.1	189.5	192	191	177.5	169.8	170	
65-69	216.6	212.7	218.8	226.1	229	216.3	214.5	219.4	208.3	200.8	202.8	
70-79	264.5	255.8	263.7	266	271.7	261.3	261.3	257.9	250.9	244.6	246.3	
80+	351.8	318.1	342.4	350.9	364.1	342.3	337.1	339.4	316	318.1	317.9	
0-19	34.2	37.4	36.3	42.8	39.5	38	40.1	37.6	36.5	38.4	44.8	
20-44	82.7	75.5	75.7	77	75.2	76.4	77.7	81.1	78.9	76.7	82.7	
45-64	143.8	143.8	147.8	153.4	154.7	150.9	155.9	156.5	144.2	137.6	136.5	
65-74	231	226.4	232.6	237.3	240.3	230.3	229.9	228.5	218.6	214.2	216.8	
75+	309.6	291.6	304.2	310.5	322.7	303.8	299.8	306	293.9	288.6	288.2	
Male	195.2	187.8	192.6	197.8	198.8	194.9	195.2	197.9	185.5	179.9	180.2	
Female	168.8	163.3	169.4	174.1	177.6	167.6	170.5	169.6	164	160.2	164.1	
White	186	179.4	182.6	185.4	186.9	179.5	182.7	180.6	173.5	168.6	171.6	
Black	184.8	179.7	188.9	196	201.5	194.1	192.5	201.1	185.3	179.9	181.3	
Native American	171.7	135.9	154.2	128.1	133.4	163.8	186.6	154.9	153.6	140.3	121.7	
Asian	91.6	82.3	98.6	130.8	123.1	116.4	105.6	104.2	113.5	118.4	114.4	
†Hispanic												
†Non-Hispanic												
All	182.6	176.2	181.7	186.9	189.4	182.5	184.2	185.3	176	171.2	173.4	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	42.8	40.7	39.7	39	38.2	36.3	37.7	35.7	35.5	34.2	39.3	34
20-29	55.9	57.8	54.1	57.2	50.2	50.3	50.5	49.7	50.5	52.2	53.7	54.4
30-39	87.1	88.6	87.5	88.7	82	79.9	80.4	76.2	75.5	73.4	73.1	71
40-49	102.5	98.7	100.6	98.9	96.2	93.1	96.3	92.8	96.8	97.3	97.9	98.5
50-59	130.9	130	128.7	127.6	125	125.6	127.1	129.5	125.8	128	129.7	129.4
60-64	171.8	170	164.2	167.8	168.6	166.7	171.4	171	172.2	172	177	174.1
65-69	197.6	195.9	194.6	195.7	192.3	194.2	197.2	199.3	201.7	200	205.4	203.9
70-79	245.2	239.3	236.9	242.4	241.8	243.2	248.6	250.4	253.5	253.2	253.7	256.8
80+	323.8	309.7	314.2	312.5	317.4	326.1	335.4	333	336.2	336	339	340.6
0-19	41.1	39.3	39.1	38	37.6	35.8	37.6	35.5	35.4	33.9	39.3	33.8
20-44	82.6	82.6	83.5	84.6	77.8	76.5	77.3	73.5	74.5	73.8	75	74.7
45-64	137.3	135.4	131.5	131.3	130.5	128.6	131.1	131.6	131.4	133.1	134.6	133.7
65-74	213.4	208.5	208.6	210.6	207.7	209.8	214.3	217	219.3	218.2	221.1	220.5
75+	291.5	285.2	284	287.9	290.9	296	302.4	300.6	304.6	304.8	308.4	312.5
Male	180.5	178.6	176.6	178.1	173.5	172.6	172.7	172.9	175.2	174.9	178	177.5
Female	163.6	159.2	159.6	160.2	161	162.7	170.1	168.8	169.3	170.1	171.2	171.5
White	169.8	165.5	165.2	164.8	165.6	167.9	170	169.6	171.2	173.1	174.8	174.2
Black	184	181.2	179.8	184.3	176.5	173.4	177.8	178.2	179.1	176.2	179.2	180.3
Native American	158.9	155.5	140.3	137.2	152.3	146.1	158.6	164.4	160.4	162.2	165.6	166.2
Asian	111.9	119.7	112.8	114.6	110.1	113.6	129.9	127.5	127.7	121.5	120.4	122.6
†Hispanic				112.3	118.2	112.1	132.7	121.5	115.4	121.1	127	112.78
†Non-Hispanic				171.5	171.1	172.4	175.4	179.3	180.8	182.6	184.4	184.96
All	173.2	169.9	168.7	169.8	167.7	168.2	171.9	171.4	172.6	172.7	174.8	174.8

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.4.3 (supplement)

Dialysis patients: counts of total deaths, by primary diagnosis*period prevalent patients*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	47	48	38	54	50	64	54	52	62	56	60	75	85
20-29	230	252	244	250	266	287	304	299	377	395	370	387	426
30-39	502	539	635	622	754	850	928	1,082	1,097	1,184	1,276	1,271	1,402
40-49	810	884	884	1,021	1,134	1,297	1,452	1,519	1,676	1,777	2,031	2,194	2,561
50-59	1,647	1,771	2,008	2,364	2,483	2,817	2,913	3,058	3,399	3,558	3,662	3,904	4,337
60-64	1,177	1,260	1,517	1,716	2,062	2,371	2,634	2,730	3,035	3,236	3,280	3,597	3,924
65-69	1,321	1,452	1,590	1,919	2,252	2,627	3,008	3,214	3,774	4,136	4,567	4,938	5,390
70-79	1,558	1,870	2,242	2,739	3,491	4,153	4,657	5,407	6,140	6,932	7,737	8,690	10,248
80+	293	390	491	600	884	1,074	1,336	1,555	2,009	2,382	2,650	3,251	3,870
0-19	47	48	38	54	50	64	54	52	62	56	60	75	85
20-44	1,079	1,181	1,263	1,281	1,527	1,677	1,833	2,068	2,209	2,375	2,568	2,671	2,982
45-64	3,287	3,525	4,025	4,692	5,172	5,945	6,398	6,620	7,375	7,775	8,051	8,682	9,668
65-74	2,264	2,631	2,956	3,578	4,301	5,052	5,661	6,326	7,229	7,963	8,783	9,748	11,168
75+	908	1,081	1,367	1,680	2,326	2,802	3,340	3,850	4,694	5,487	6,171	7,131	8,340
Male	4,189	4,762	5,352	6,164	7,264	8,478	9,470	10,281	11,619	12,673	13,560	14,813	16,890
Female	3,396	3,704	4,297	5,121	6,112	7,062	7,816	8,635	9,950	10,983	12,073	13,494	15,353
White	5,516	6,219	7,036	8,095	9,605	10,988	12,078	13,225	15,055	16,242	17,674	19,602	22,399
Black	2,044	2,219	2,525	3,081	3,578	4,281	4,856	5,295	6,053	6,904	7,273	8,009	9,010
Native American	18	21	53	54	94	118	149	168	202	232	283	277	311
Asian	*	*	35	55	99	153	203	228	259	278	403	419	523
†Hispanic													
†Non-Hispanic													
All	7,585	8,466	9,649	11,285	13,376	15,540	17,286	18,916	21,569	23,656	25,633	28,307	32,243
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	66	64	67	64	63	55	62	55	56	56	76	51	
20-29	387	390	380	400	366	350	369	344	382	382	410	385	
30-39	1,497	1,519	1,577	1,600	1,498	1,430	1,526	1,464	1,482	1,500	1,412	1,385	
40-49	2,677	2,814	3,103	3,212	3,441	3,439	3,707	3,745	3,980	4,070	4,184	4,170	
50-59	4,698	5,141	5,459	5,664	6,029	6,463	7,151	7,388	7,975	8,416	8,795	8,977	
60-64	4,124	4,181	4,440	4,650	4,797	5,097	5,476	5,571	5,769	5,811	6,400	6,534	
65-69	5,897	6,258	6,639	6,984	7,283	7,582	7,852	8,077	8,379	8,436	8,637	8,684	
70-79	11,511	12,252	13,614	14,935	15,933	17,411	18,860	19,574	20,131	20,667	20,943	21,146	
80+	4,521	5,115	5,820	6,567	7,444	8,368	9,615	10,326	11,413	12,483	13,380	14,005	
0-19	66	64	67	64	63	55	62	55	56	56	76	51	
20-44	3,103	3,156	3,322	3,338	3,271	3,224	3,379	3,308	3,342	3,492	3,429	3,365	
45-64	10,280	10,889	11,637	12,188	12,860	13,555	14,850	15,204	16,246	16,687	17,772	18,086	
65-74	12,276	13,073	14,231	15,038	15,746	16,637	17,473	17,904	18,330	18,654	18,892	18,953	
75+	9,653	10,552	11,842	13,448	14,914	16,724	18,854	20,073	21,593	22,932	24,068	24,882	
Male	18,324	19,616	21,313	22,937	24,134	25,942	28,233	29,353	31,029	32,359	34,041	34,950	
Female	17,054	18,118	19,786	21,139	22,720	24,253	26,385	27,191	28,538	29,462	30,196	30,387	
White	24,339	25,579	27,701	29,608	31,501	33,792	36,368	37,818	39,685	41,475	42,854	43,396	
Black	10,103	10,975	12,061	12,857	13,622	14,533	16,154	16,521	17,573	17,860	18,751	19,226	
Native American	367	408	419	515	518	554	623	702	668	736	737	721	
Asian	569	772	918	1,096	1,213	1,316	1,473	1,503	1,641	1,750	1,895	1,994	
†Hispanic				3,389	4,119	4,646	5,119	5,501	12,134	6,367	6,868	7,019	
†Non-Hispanic				40,869	43,060	45,958	50,004	51,592	108,050	55,952	57,908	58,848	
All	35,378	37,734	41,099	44,076	46,854	50,195	54,618	56,544	59,567	61,821	64,237	65,337	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.4.3 (supplement)

Dialysis patients: counts of total deaths, by primary diagnosis

period prevalent patients

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	52	48	61	86	75	96	102	100	129	120	112	125	126
30-39	130	175	233	242	320	372	423	441	461	452	524	529	541
40-49	153	198	240	339	381	435	576	618	672	777	899	990	1,141
50-59	252	302	449	690	750	988	1,089	1,263	1,412	1,486	1,677	1,856	2,188
60-64	174	215	321	435	573	751	875	997	1,143	1,289	1,444	1,673	1,955
65-69	149	212	276	415	498	675	869	1,027	1,241	1,461	1,784	1,999	2,282
70-79	98	143	281	375	532	742	892	1,165	1,363	1,660	2,098	2,564	3,205
80+	*	19	15	45	77	78	125	156	253	288	312	496	625
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	248	322	400	472	588	677	766	820	909	921	1,027	1,089	1,155
45-64	513	616	904	1,320	1,511	1,965	2,299	2,599	2,908	3,203	3,629	4,084	4,796
65-74	215	314	471	680	855	1,169	1,451	1,784	2,102	2,522	3,097	3,596	4,353
75+	37	60	101	155	252	326	435	564	755	887	1,097	1,463	1,759
Male	549	677	919	1,260	1,546	1,976	2,388	2,740	3,211	3,499	4,094	4,618	5,518
Female	464	635	958	1,369	1,661	2,163	2,572	3,031	3,467	4,037	4,758	5,621	6,552
White	762	974	1,391	1,892	2,337	2,946	3,444	4,042	4,572	5,127	6,113	7,097	8,287
Black	246	331	443	677	769	1,069	1,328	1,524	1,837	2,113	2,379	2,750	3,287
Native American	*	*	29	34	64	71	107	106	141	172	193	207	233
Asian	*	*	14	26	37	53	81	99	128	124	167	185	263
†Hispanic													
†Non-Hispanic													
All	1,013	1,312	1,877	2,629	3,207	4,139	4,960	5,771	6,678	7,536	8,852	10,239	12,070
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	127	120	99	115	109	87	94	67	100	92	94	77	
30-39	565	555	613	648	598	581	609	585	589	606	520	517	
40-49	1,175	1,258	1,379	1,462	1,578	1,559	1,708	1,669	1,723	1,792	1,814	1,796	
50-59	2,433	2,643	2,916	3,129	3,364	3,682	4,083	4,247	4,614	4,633	4,900	5,059	
60-64	2,028	2,138	2,357	2,562	2,647	2,983	3,277	3,328	3,435	3,515	3,850	3,911	
65-69	2,682	2,866	3,213	3,541	3,900	4,128	4,400	4,597	4,825	4,868	4,989	5,039	
70-79	3,853	4,343	4,929	5,805	6,406	7,408	8,350	8,719	9,354	9,727	9,963	10,116	
80+	781	918	1,129	1,417	1,672	2,052	2,579	2,704	3,204	3,570	3,971	4,134	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	1,177	1,209	1,275	1,343	1,311	1,268	1,323	1,300	1,276	1,361	1,264	1,231	
45-64	5,151	5,505	6,089	6,573	6,985	7,624	8,448	8,596	9,185	9,277	9,914	10,129	
65-74	5,109	5,588	6,268	7,022	7,687	8,405	9,089	9,433	9,885	10,092	10,288	10,281	
75+	2,207	2,539	3,003	3,741	4,291	5,183	6,240	6,587	7,498	8,073	8,635	9,008	
Male	6,196	6,736	7,551	8,720	9,230	10,426	11,809	12,283	13,290	13,905	14,727	15,240	
Female	7,451	8,110	9,087	9,959	11,046	12,054	13,294	13,634	14,557	14,899	15,375	15,410	
White	9,483	10,068	11,165	12,520	13,336	14,877	16,560	17,001	18,349	19,070	19,861	20,215	
Black	3,661	4,106	4,708	5,177	5,895	6,471	7,290	7,599	8,133	8,204	8,676	8,804	
Native American	256	304	324	396	400	424	482	525	509	567	558	550	
Asian	247	368	441	586	645	708	771	792	856	963	1,007	1,081	
†Hispanic				2,091	2,646	3,098	3,344	3,647	8,158	4,219	4,587	4,802	
†Non-Hispanic				16,704	17,857	19,668	22,093	22,640	48,246	24,909	25,852	26,166	
All	13,647	14,846	16,638	18,679	20,276	22,480	25,103	25,917	27,847	28,804	30,102	30,650	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.4.3 (supplement)

Dialysis patients: counts of total deaths, by primary diagnosis*period prevalent patients*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	14	12	19	24	24	21	27	26	48	28	44	34
30-39	39	36	58	56	75	103	99	129	146	176	195	186	224
40-49	100	114	145	149	172	214	254	260	308	315	373	400	512
50-59	233	264	315	411	474	540	580	603	701	733	792	868	927
60-64	159	193	269	357	411	544	594	638	705	806	830	915	906
65-69	186	270	340	461	580	668	802	879	1,098	1,171	1,352	1,499	1,607
70-79	236	374	543	781	1,105	1,415	1,507	2,019	2,309	2,669	2,967	3,391	3,972
80+	49	74	164	209	297	411	523	674	916	1,111	1,319	1,592	1,936
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	81	100	133	130	166	194	220	258	297	355	380	400	494
45-64	459	521	666	862	990	1,231	1,328	1,399	1,589	1,723	1,838	2,013	2,109
65-74	332	506	669	903	1,183	1,462	1,613	1,960	2,310	2,565	2,853	3,203	3,655
75+	139	212	378	548	799	1,032	1,219	1,612	2,013	2,386	2,785	3,279	3,860
Male	586	765	1,081	1,423	1,795	2,307	2,614	3,000	3,562	4,007	4,479	4,998	5,743
Female	425	575	767	1,023	1,345	1,613	1,767	2,234	2,649	3,023	3,380	3,906	4,383
White	543	785	1,145	1,506	1,934	2,428	2,625	3,239	3,890	4,323	4,892	5,631	6,523
Black	466	554	695	924	1,176	1,447	1,701	1,922	2,248	2,622	2,841	3,156	3,465
Native American	*	*	*	*	*	14	13	16	14	18	30	18	35
Asian	*	*	*	*	24	31	42	57	59	67	96	99	103
†Hispanic													
†Non-Hispanic													
All	1,011	1,340	1,848	2,446	3,140	3,920	4,381	5,234	6,211	7,030	7,859	8,904	10,126
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	40	33	43	40	36	35	29	41	37	40	37	53	
30-39	234	262	264	214	211	203	219	222	232	239	236	241	
40-49	528	554	633	624	689	722	746	798	838	809	908	899	
50-59	950	1,149	1,164	1,152	1,189	1,264	1,390	1,332	1,519	1,696	1,716	1,750	
60-64	1,061	1,024	1,123	1,019	1,067	1,070	1,101	1,127	1,166	1,099	1,275	1,280	
65-69	1,721	1,884	1,892	1,869	1,836	1,880	1,884	1,814	1,894	1,911	1,884	1,969	
70-79	4,557	4,719	5,208	5,327	5,590	5,823	6,129	6,282	6,273	6,372	6,428	6,492	
80+	2,350	2,707	2,935	3,228	3,595	3,907	4,390	4,832	5,211	5,647	6,026	6,382	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	524	538	553	487	523	534	529	553	561	594	603	618	
45-64	2,289	2,484	2,674	2,562	2,669	2,760	2,956	2,967	3,231	3,289	3,569	3,605	
65-74	4,016	4,280	4,555	4,482	4,518	4,580	4,727	4,617	4,637	4,720	4,692	4,865	
75+	4,612	5,030	5,480	5,942	6,503	7,030	7,676	8,311	8,741	9,210	9,646	9,978	
Male	6,284	6,883	7,404	7,419	7,908	8,303	8,773	8,996	9,446	9,815	10,360	10,740	
Female	5,163	5,456	5,863	6,055	6,306	6,601	7,115	7,456	7,725	7,998	8,150	8,330	
White	7,224	7,729	8,251	8,307	8,889	9,237	9,717	10,217	10,605	11,059	11,470	11,734	
Black	4,031	4,375	4,733	4,869	4,996	5,294	5,767	5,778	6,083	6,253	6,469	6,737	
Native American	42	42	32	46	37	49	50	73	74	64	62	68	
Asian	150	193	251	252	292	324	354	384	409	437	509	531	
†Hispanic				647	747	773	860	942	2,064	1,141	1,191	1,199	
†Non-Hispanic				12,856	13,512	14,194	15,106	15,591	32,442	16,753	17,406	17,974	
All	11,447	12,339	13,267	13,474	14,214	14,904	15,888	16,452	17,171	17,813	18,510	19,070	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.4.3 (supplement)

Dialysis patients: counts of total deaths, by primary diagnosis*period prevalent patients*

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	12	12	17	14	20	*	*	15	17	18	24	19
20-29	39	41	52	47	52	56	67	68	78	76	100	64	78
30-39	65	78	81	97	108	126	166	244	238	241	240	246	240
40-49	93	104	111	118	159	181	211	227	245	247	312	346	365
50-59	171	194	254	262	271	317	333	342	395	427	437	415	446
60-64	128	136	152	220	262	255	302	308	381	347	332	350	388
65-69	127	153	200	223	263	315	338	388	477	451	481	514	487
70-79	146	198	260	316	425	488	591	638	785	843	905	930	1,112
80+	20	28	61	76	94	141	165	204	249	272	342	382	449
0-19	*	12	12	17	14	20	*	*	15	17	18	24	19
20-44	153	166	185	194	237	256	329	427	432	437	494	497	490
45-64	343	387	465	550	615	679	750	762	905	901	927	924	1,027
65-74	213	278	353	408	501	589	672	749	929	921	959	1,022	1,097
75+	80	101	168	207	281	355	422	481	582	645	769	804	951
Male	479	571	738	854	1,032	1,176	1,384	1,521	1,738	1,787	1,904	2,014	2,153
Female	317	373	445	522	616	723	799	907	1,125	1,134	1,263	1,257	1,431
White	635	789	964	1,087	1,297	1,451	1,662	1,787	2,154	2,224	2,308	2,423	2,728
Black	157	152	206	280	328	397	468	590	661	640	756	763	759
Native American	*	*	*	*	*	18	11	18	16	20	30	25	20
Asian	*	*	*	*	16	33	42	33	32	37	73	60	77
†Hispanic													
†Non-Hispanic													
All	796	944	1,183	1,376	1,648	1,899	2,183	2,428	2,863	2,921	3,167	3,271	3,584
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	22	14	13	17	16	*	*	11	13	*	16	12	
20-29	91	66	92	79	92	81	91	79	90	77	115	81	
30-39	260	237	239	233	255	213	238	228	221	229	214	219	
40-49	392	440	455	463	504	498	476	530	539	572	568	538	
50-59	506	504	527	514	558	563	661	650	712	785	787	763	
60-64	335	361	352	396	389	385	368	352	396	392	388	442	
65-69	554	546	556	557	519	537	535	548	529	486	534	455	
70-79	1,091	1,159	1,307	1,374	1,354	1,445	1,497	1,520	1,386	1,420	1,366	1,239	
80+	457	520	634	662	735	793	858	870	874	938	924	952	
0-19	22	14	13	17	16	*	*	11	13	*	16	12	
20-44	554	513	557	517	572	515	542	545	519	558	563	519	
45-64	1,030	1,095	1,108	1,168	1,226	1,225	1,292	1,294	1,439	1,497	1,509	1,524	
65-74	1,135	1,166	1,239	1,276	1,247	1,260	1,234	1,290	1,191	1,200	1,172	1,045	
75+	967	1,059	1,258	1,317	1,361	1,515	1,656	1,648	1,598	1,644	1,652	1,601	
Male	2,274	2,304	2,538	2,576	2,645	2,650	2,826	2,829	2,817	2,916	2,935	2,822	
Female	1,434	1,543	1,637	1,719	1,777	1,875	1,907	1,959	1,943	1,992	1,977	1,879	
White	2,768	2,876	3,091	3,210	3,278	3,373	3,489	3,549	3,358	3,551	3,488	3,277	
Black	836	858	929	921	965	972	1,056	1,043	1,182	1,153	1,197	1,228	
Native American	22	23	35	35	33	44	40	48	34	45	52	39	
Asian	82	90	120	129	146	136	148	148	186	159	175	157	
†Hispanic				241	260	308	324	317	738	361	386	374	
†Non-Hispanic				4,066	4,180	4,233	4,438	4,496	8,844	4,581	4,569	4,360	
All	3,708	3,847	4,175	4,295	4,422	4,525	4,733	4,788	4,760	4,908	4,912	4,701	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.4.3 (supplement)

Dialysis patients: counts of total deaths, by primary diagnosis*period prevalent patients*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	40	35	23	32	33	41	34	34	41	35	37	35	51
20-29	130	149	119	98	115	111	114	104	144	151	130	154	188
30-39	268	250	263	227	251	249	240	268	252	315	317	310	397
40-49	464	468	388	415	422	467	411	414	451	438	447	458	543
50-59	991	1,011	990	1,001	988	972	911	850	891	912	756	765	776
60-64	716	716	775	704	816	821	863	787	806	794	674	659	675
65-69	859	817	774	820	911	969	999	920	958	1,053	950	926	1,014
70-79	1,078	1,155	1,158	1,267	1,429	1,508	1,667	1,585	1,683	1,760	1,767	1,805	1,959
80+	219	269	251	270	416	444	523	521	591	711	677	781	860
0-19	40	35	23	32	33	41	34	34	41	35	37	35	51
20-44	597	593	545	485	536	550	518	563	571	662	667	685	843
45-64	1,972	2,001	1,990	1,960	2,056	2,070	2,021	1,860	1,973	1,948	1,657	1,661	1,736
65-74	1,504	1,533	1,463	1,587	1,762	1,832	1,925	1,833	1,888	1,955	1,874	1,927	2,063
75+	652	708	720	770	994	1,089	1,264	1,193	1,344	1,569	1,520	1,585	1,770
Male	2,575	2,749	2,614	2,627	2,891	3,019	3,084	3,020	3,108	3,380	3,083	3,183	3,476
Female	2,190	2,121	2,127	2,207	2,490	2,563	2,678	2,463	2,709	2,789	2,672	2,710	2,987
White	3,576	3,671	3,536	3,610	4,037	4,163	4,347	4,157	4,439	4,568	4,361	4,451	4,861
Black	1,175	1,182	1,181	1,200	1,305	1,368	1,359	1,259	1,307	1,529	1,297	1,340	1,499
Native American	*	13	13	11	17	15	18	28	31	22	30	27	23
Asian	*	*	11	13	22	36	38	39	40	50	67	75	80
†Hispanic													
†Non-Hispanic													
All	4,765	4,870	4,741	4,834	5,381	5,582	5,762	5,483	5,817	6,169	5,755	5,893	6,463
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	35	38	46	46	44	45	50	39	39	46	59	34	
20-29	129	171	146	166	129	147	155	157	155	173	164	174	
30-39	438	465	461	505	434	433	460	429	440	426	442	408	
40-49	582	562	636	663	670	660	777	748	880	897	894	937	
50-59	809	845	852	869	918	954	1,017	1,159	1,130	1,302	1,392	1,405	
60-64	700	658	608	673	694	659	730	764	772	805	887	901	
65-69	940	962	978	1,017	1,028	1,037	1,033	1,118	1,131	1,171	1,230	1,221	
70-79	2,010	2,031	2,170	2,429	2,583	2,735	2,884	3,053	3,118	3,148	3,186	3,299	
80+	933	970	1,122	1,260	1,442	1,616	1,788	1,920	2,124	2,328	2,459	2,537	
0-19	35	38	46	46	44	45	50	39	39	46	59	34	
20-44	848	896	937	991	865	907	985	910	986	979	999	997	
45-64	1,810	1,805	1,766	1,885	1,980	1,946	2,154	2,347	2,391	2,624	2,780	2,828	
65-74	2,016	2,039	2,169	2,258	2,294	2,392	2,423	2,564	2,617	2,642	2,740	2,762	
75+	1,867	1,924	2,101	2,448	2,759	2,996	3,282	3,527	3,756	4,005	4,135	4,295	
Male	3,570	3,693	3,820	4,222	4,351	4,563	4,825	5,245	5,476	5,723	6,019	6,148	
Female	3,006	3,009	3,199	3,406	3,591	3,723	4,069	4,142	4,313	4,573	4,694	4,768	
White	4,864	4,906	5,194	5,571	5,998	6,305	6,602	7,051	7,373	7,795	8,035	8,170	
Black	1,575	1,636	1,691	1,890	1,766	1,796	2,041	2,101	2,175	2,250	2,409	2,457	
Native American	47	39	28	38	48	37	51	56	51	60	65	64	
Asian	90	121	106	129	130	148	200	179	190	191	204	225	
†Hispanic				410	466	467	591	595	1,174	646	704	644	
†Non-Hispanic				7,243	7,511	7,863	8,367	8,865	18,518	9,709	10,081	10,348	
All	6,576	6,702	7,019	7,628	7,942	8,286	8,894	9,387	9,789	10,296	10,713	10,916	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	1029	1057	1128	1185	1184	1177	1201	1201	1259	1344	1395	1421	1441
20-29	3399	3555	3787	3962	4311	4472	4480	4598	4793	5103	5435	5687	5941
30-39	5198	5775	6412	7044	7736	8381	8825	9,328	9,966	10,742	11,627	12,418	13,430
40-49	6636	7242	7891	8,502	9,806	10,352	10,771	11,382	12,325	13,751	15,377	17,179	19,305
50-59	9,963	11,123	12,376	13,511	14,714	15,525	16,169	16,799	17,605	18,750	20,228	22,128	24,400
60-64	4,964	5,674	6,718	7,628	8,933	9,909	10,688	11,235	12,133	12,911	13,931	15,172	16,412
65-69	4,576	5,099	5,755	6,623	8,049	9,040	10,081	11,443	12,930	14,277	15,943	17,822	19,699
70-79	4,438	5,272	6,329	7,712	9,649	11,189	12,793	14,718	16,627	18,732	21,449	24,902	28,890
80+	561	716	929	1243	1731	2,065	2,586	3,197	3,853	4,578	5,578	6,796	8,015
0-19	1,029	1,057	1,128	1,185	1,184	1,177	1,201	1,201	1,259	1,344	1,395	1,421	1,441
20-44	11,705	12,706	13,807	14,923	16,619	17,640	18,311	19,331	20,585	22,353	24,386	26,530	28,666
45-64	18,456	20,663	23,377	25,724	28,880	30,998	32,622	34,010	36,238	38,905	42,212	46,053	50,822
65-74	7,560	8,614	9,879	11,636	14,170	16,010	17,913	20,364	22,886	25,416	28,624	32,599	36,843
75+	2014	2,473	3,133	3,942	5,259	6,284	7,547	8,993	10,524	12,171	14,346	16,921	19,761
Male	22,137	24,617	27,487	30,687	35,156	38,157	40,778	43,707	47,541	51,909	57,602	64,204	71,491
Female	18,627	20,897	23,838	26,722	30,956	33,953	36,815	40,192	43,951	48,280	53,360	59,320	66,043
White	27,880	30,717	34,174	37,632	42,760	45,944	48,982	52,291	56,343	60,920	66,800	73,733	81,345
Black	12,497	14,293	16,440	18,800	22,036	24,556	26,649	29,315	32,440	36,063	40,417	45,427	51,035
Native American	169	227	297	402	530	617	724	838	972	1122	1291	1469	1704
Asian	218	276	415	575	787	993	1239	1455	1738	2083	2454	2895	3450
†Hispanic													
†Non-Hispanic													
All	40,764	45,514	51,326	57,409	66,113	72,109	77,594	83,899	91,492	100,189	110,962	123,524	137,533

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	1471	1503	1465	1509	1493	1466	1441	1393	1385	1437	1465	1459
20-29	6211	6415	6510	6626	6720	6812	6927	6991	6974	6918	6775	6707
30-39	14,280	15,034	15,673	16,076	16,324	16,404	16,586	17,067	17,271	17,516	17,661	17,897
40-49	20,914	22,700	24,407	26,396	27,949	29,227	30,612	32,004	32,991	33,984	34,919	35,747
50-59	26,491	28,852	31,287	33,189	35,469	37,997	41,066	44,187	47,090	50,206	52,740	55,272
60-64	17,401	18,476	19,543	20,683	21,698	22,734	23,887	25,175	26,310	27,524	28,981	30,536
65-69	21,482	23,175	24,653	25,863	27,186	28,188	29,191	30,396	31,257	32,350	33,191	34,039
70-79	32,312	35,840	39,763	43,182	47,052	50,717	53,674	56,608	58,484	60,222	62,213	63,078
80+	9,426	10,843	12,265	13,868	15,477	17,203	19,020	21,099	23,209	25,430	27,706	29,661
0-19	1,471	1,503	1,465	1,509	1,493	1,466	1,441	1,393	1,385	1,437	1,465	1459
20-44	30,431	32,002	33,221	34,531	35,465	36,261	37,061	38,102	38,535	39,081	39,139	39,586
45-64	54,865	59,475	64,198	68,439	72,696	76,913	82,018	87,322	92,101	97,067	101,937	106,573
65-74	40,734	44,579	48,229	51,067	54,026	56,699	58,885	61,196	62,816	64,554	66,110	67,411
75+	22,486	25,279	28,452	31,847	35,690	39,411	42,999	46,907	50,133	53,448	57,001	59,366
Male	77,970	85,009	91,617	97,775	104,544	111,104	117,767	125,078	130,982	137,467	143,457	148,665
Female	72,017	77,828	83,949	89,617	94,824	99,646	104,637	109,842	113,987	118,120	122,195	125,731
White	87,686	94,362	101,231	107,238	113,870	119,843	125,835	133,081	139,219	145,056	150,431	155,261
Black	56,298	61,556	66,550	71,477	76,109	80,742	85,487	89,814	92,959	96,811	100,650	103,980
Native American	1932	2139	2350	2574	2746	2948	3218	3380	3540	3723	3852	3982
Asian	4072	4781	5435	6,103	6,643	7,215	7,864	8,645	9,252	9,997	10,718	11,174
†Hispanic				18,078	20,840	22,900	25,042	28,011	60,984	32,435	34,471	36,515
†Non-Hispanic				170,106	179,779	189,346	199,005	208,672	432,835	225,337	233,675	240,661
All	149,987	162,838	175,566	187,393	199,369	210,749	222,404	234,920	244,970	255,587	265,651	274,396

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	11	*	*	11	14	16	19	17	20	25	19	21
20-29	211	257	351	420	478	523	570	594	646	705	749	809	848
30-39	596	756	992	1189	1413	1627	1773	1888	2047	2316	2580	2779	3073
40-49	611	756	1012	1278	1622	1904	2165	2502	2905	3426	4030	4645	5,397
50-59	896	1220	1745	2302	2832	3438	3,952	4,434	5,005	5,767	6,826	8,049	9,393
60-64	490	630	923	1298	1733	2163	2567	2970	3,579	4,167	4,891	5,805	6,637
65-69	369	501	745	994	1367	1766	2188	2,790	3,398	4,163	4,972	5,980	7,231
70-79	228	355	579	832	1157	1531	1999	2,545	3,089	3,840	4,960	6,324	7,878
80+	17	25	37	75	110	156	216	310	394	470	676	932	1169
0-19	*	11	*	*	11	14	16	19	17	20	25	19	21
20-44	1098	1362	1803	2197	2665	3046	3343	3604	4011	4523	5,085	5,671	6,250
45-64	1706	2257	3220	4,290	5,413	6,608	7,684	8,784	10,172	11,858	13,991	16,416	19,098
65-74	537	752	1162	1600	2198	2,842	3,533	4,533	5,456	6,721	8,267	10,181	12,443
75+	78	129	200	301	436	612	869	1112	1425	1753	2,341	3,056	3,834
Male	1762	2275	3125	4,005	5,049	6,170	7,248	8,359	9,682	11,290	13,503	15,988	18,838
Female	1664	2236	3270	4,393	5,675	6,951	8,197	9,693	11,400	13,585	16,206	19,354	22,809
White	2318	2998	4,170	5,377	6,730	8,091	9,364	10,763	12,495	14,731	17,645	20,859	24,444
Black	1062	1428	2067	2767	3631	4,565	5,449	6,491	7,600	8,946	10,585	12,689	15,036
Native American	42	74	122	174	239	293	372	464	559	675	809	933	1101
Asian	*	*	37	80	125	173	261	335	427	524	669	860	1066
†Hispanic													
†Non-Hispanic													
All	3,425	4,511	6,395	8,397	10,724	13,122	15,446	18,052	21,082	24,875	29,708	35,342	41,647
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	20	21	16	*	14	14	*	13	12	*	*	*	
20-29	865	825	804	782	745	711	689	696	719	713	669	656	
30-39	3306	3502	3692	3691	3685	3696	3697	3811	3878	3876	3826	3938	
40-49	5,965	6,568	7,200	7,950	8,489	8,892	9,373	9,835	10,227	10,684	11,096	11,493	
50-59	10,555	11,898	13,307	14,575	16,171	17,719	19,354	21,070	22,554	24,097	25,419	26,628	
60-64	7,378	8,146	9,004	9,988	10,954	11,867	12,904	13,782	14,551	15,458	16,332	17,114	
65-69	8,467	9,506	10,655	11,787	13,006	14,054	14,951	15,962	16,746	17,613	18,236	18,887	
70-79	9,378	11,078	12,983	15,108	17,518	19,791	21,732	23,598	25,304	26,715	28,040	29,106	
80+	1484	1813	2,151	2,627	3,227	3,889	4,453	5,165	5,991	6,866	7,821	8,579	
0-19	20	21	16	*	14	14	*	13	12	*	*	*	
20-44	6,673	7,017	7,344	7,565	7,708	7,879	8,017	8,284	8,446	8,614	8,609	8,823	
45-64	21,396	23,922	26,663	29,422	32,336	35,006	38,001	40,908	43,483	46,214	48,734	51,007	
65-74	14,675	16,859	19,201	21,558	24,040	26,268	28,112	30,031	31,623	33,094	34,342	35,530	
75+	4,653	5,537	6,588	7,965	9,711	11,466	13,024	14,695	16,418	18,100	19,754	21,042	
Male	21,428	24,300	27,308	30,530	34,129	37,762	41,249	44,968	48,387	52,015	55,297	58,474	
Female	25,989	29,056	32,504	35,989	39,680	42,870	45,915	48,964	51,594	54,017	56,151	57,938	
White	27,583	30,760	34,500	38,036	42,275	46,170	49,792	54,038	57,966	61,652	64,817	67,874	
Black	17,259	19,550	21,809	24,476	27,137	29,587	31,974	33,904	35,522	37,393	39,210	40,708	
Native American	1270	1440	1592	1776	1885	2051	2247	2404	2539	2666	2750	2852	
Asian	1304	1605	1912	2229	2511	2824	3150	3585	3954	4322	4,671	4,977	
†Hispanic				9,188	11,062	12,445	13,906	15,850	34,963	18,832	20,215	21,623	
†Non-Hispanic				57,784	63,499	69,084	74,227	79,109	167,160	88,371	92,530	96,230	
All	47,417	53,356	59,812	66,518	73,809	80,632	87,164	93,932	99,982	106,032	111,448	116,411	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	48	46	47	54	54	56	45	50	53	67	87	96	95
20-29	333	366	405	422	464	493	517	551	584	651	720	813	906
30-39	838	949	1108	1289	1428	1603	1722	1897	2099	2335	2564	2822	3093
40-49	1300	1519	1785	2058	2397	2649	2787	2931	3215	3654	4196	4737	5410
50-59	1661	2037	2560	3084	3460	3787	4086	4365	4711	5134	5598	6019	6627
60-64	841	1041	1409	1768	2190	2530	2866	3093	3349	3605	3925	4306	4709
65-69	772	980	1332	1748	2234	2626	3006	3467	4,032	4,485	5,148	5,803	6,310
70-79	789	1115	1659	2329	3,033	3,704	4,462	5,389	6,225	7,193	8,392	9,828	11,440
80+	87	155	274	408	604	756	1032	1338	1685	2,066	2,605	3,282	3,984
0-19	48	46	47	54	54	56	45	50	53	67	87	96	95
20-44	1780	2041	2326	2658	2959	3269	3478	3751	4131	4667	5253	5898	6593
45-64	3193	3871	4940	5963	6981	7,793	8,501	9,086	9,827	10,712	11,751	12,798	14,150
65-74	1323	1730	2429	3236	4,098	4,859	5,619	6,579	7,571	8,523	9,791	11,271	12,657
75+	325	521	836	1249	1773	2,227	2,881	3,615	4,371	5,221	6,353	7,641	9,077
Male	3860	4763	6,091	7,549	9,074	10,373	11,534	12,887	14,499	16,292	18,633	21,302	24,018
Female	2809	3446	4488	5,613	6,790	7,831	8,990	10,194	11,455	12,898	14,602	16,403	18,555
White	2845	3570	4,783	6,021	7,211	8,209	9,325	10,543	11,875	13,382	15,401	17,636	19,951
Black	3788	4586	5704	7001	8,482	9,773	10,907	12,184	13,645	15,271	17,177	19,245	21,623
Native American	16	23	31	40	48	56	67	72	91	110	128	158	189
Asian	20	30	62	100	124	166	226	282	343	427	529	666	810
†Hispanic													
†Non-Hispanic													
All	6,669	8,209	10,579	13,161	15,864	18,204	20,524	23,081	25,954	29,190	33,235	37,705	42,573

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	90	82	78	62	63	67	70	61	52	40	43	64
20-29	991	1072	1092	1101	1148	1180	1237	1279	1254	1219	1175	1096
30-39	3349	3536	3671	3728	3819	3821	3931	4116	4186	4366	4487	4613
40-49	5965	6499	7035	7473	7867	8246	8588	9018	9281	9566	9847	10191
50-59	7242	7,829	8,431	8,700	8,925	9,320	9,967	10,671	11,280	11,976	12,619	13,416
60-64	4,952	5,221	5,429	5,419	5,475	5,532	5,550	5,753	6,021	6,224	6,537	6,881
65-69	6,788	7,339	7,549	7,524	7,615	7,615	7,686	7,813	7,785	7,982	8,208	8,342
70-79	12,838	14,172	15,473	16,116	16,783	17,578	18,243	18,866	19,149	19,461	20,060	20,119
80+	4,805	5,504	6,218	6,814	7,460	8,123	8,993	9,906	10,751	11,684	12,718	13,702
0-19	90	82	78	62	63	67	70	61	52	40	43	64
20-44	7196	7624	7933	8233	8485	8673	8978	9380	9540	9738	9766	9964
45-64	15,302	16,532	17,726	18,187	18,748	19,426	20,295	21,457	22,482	23,614	24,898	26,233
65-74	13,968	15,217	16,013	16,198	16,462	16,669	16,906	17,136	17,152	17,444	17,866	17,993
75+	10,464	11,799	13,227	14,255	15,396	16,646	18,015	19,449	20,533	21,684	23,120	24,169
Male	26,597	29,215	31,359	32,444	33,975	35,408	37,061	39,026	40,508	42,265	44,117	45,550
Female	20,423	22,039	23,618	24,491	25,179	26,074	27,203	28,456	29,251	30,254	31,577	32,874
White	21,959	23,956	25,688	26,371	27,400	28,393	29,644	31,254	32,445	33,751	35,313	36,589
Black	23,867	25,906	27,725	28,866	29,930	31,138	32,472	33,875	34,777	35,998	37,386	38,702
Native American	201	211	236	244	252	261	277	289	284	300	310	320
Asian	994	1181	1328	1455	1573	1689	1870	2065	2253	2470	2685	2813
†Hispanic				3374	3700	4009	4389	4929	10,721	5,743	6,105	6,474
†Non-Hispanic				53,704	55,663	57,732	60,163	62,862	129,520	67,184	70,066	72,477
All	47,020	51,254	54,978	56,935	59,155	61,481	64,264	67,483	69,759	72,519	75,694	78,424

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	390	398	434	446	445	443	446	450	459	500	516	530	528
20-29	1323	1351	1455	1517	1637	1681	1655	1716	1761	1858	1981	2032	2099
30-39	1628	1810	2026	2280	2511	2751	2879	3025	3188	3295	3496	3620	3846
40-49	1446	1585	1765	1968	2329	2486	2623	2747	2975	3266	3572	3901	4265
50-59	1647	1844	2072	2285	2591	2774	2865	2958	2992	3094	3137	3298	3550
60-64	722	836	1060	1249	1434	1635	1740	1793	1878	1885	1929	1950	1946
65-69	623	694	820	965	1210	1348	1556	1758	1919	2016	2172	2319	2408
70-79	527	654	828	1103	1391	1646	1917	2165	2435	2643	2892	3252	3,609
80+	54	78	127	174	231	303	378	480	529	629	751	888	1002
0-19	390	398	434	446	445	443	446	450	459	500	516	530	528
20-44	3704	3973	4345	4772	5330	5696	5890	6210	6511	6874	7370	7800	8267
45-64	3062	3453	4032	4528	5172	5630	5872	6029	6283	6523	6744	7002	7,439
65-74	979	1117	1350	1685	2100	2386	2741	3079	3417	3588	3905	4,238	4,512
75+	226	309	425	557	732	912	1110	1323	1466	1700	1911	2221	2507
Male	4945	5438	6231	7067	8,136	8,865	9,392	9,938	10,481	11,092	11,869	12,695	13,602
Female	3417	3811	4355	4920	5643	6202	6667	7153	7,655	8,094	8,578	9,097	9,649
White	6343	6952	7851	8,736	9,879	10,655	11,266	11,879	12,493	12,998	13,650	14,472	15,278
Black	1875	2114	2509	2955	3479	3907	4228	4604	4958	5407	5934	6378	6901
Native American	56	65	69	92	127	137	149	156	169	173	178	191	211
Asian	88	118	156	203	294	368	417	452	516	607	685	751	862
†Hispanic													
†Non-Hispanic													
All	8362	9249	10,586	11,987	13,779	15,067	16,059	17,091	18,136	19,185	20,447	21,792	23,252

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	543	567	537	556	555	529	527	483	486	485	491	462
20-29	2189	2304	2392	2479	2496	2543	2589	2571	2511	2469	2400	2411
30-39	4008	4156	4308	4503	4600	4557	4569	4650	4647	4668	4711	4730
40-49	4594	4948	5242	5640	5926	6138	6299	6421	6477	6515	6541	6486
50-59	3745	3922	4144	4323	4584	4877	5200	5513	5833	6196	6351	6507
60-64	1957	2055	2079	2149	2173	2165	2179	2257	2294	2316	2413	2546
65-69	2478	2499	2571	2573	2552	2521	2550	2539	2521	2446	2368	2408
70-79	3,910	4,219	4,536	4,712	4,994	5,212	5,270	5,299	5,127	5,041	4,982	4,737
80+	1086	1258	1425	1590	1713	1834	1900	2033	2128	2221	2277	2305
0-19	543	567	537	556	555	529	527	483	486	485	491	462
20-44	8652	9031	9380	9810	9998	10101	10218	10289	10220	10270	10211	10210
45-64	7,841	8,355	8,786	9,282	9,780	10,180	10,618	11,122	11,543	11,893	12,205	12,470
65-74	4,774	4,959	5,188	5,269	5,280	5,348	5,381	5,364	5,256	5,105	4,909	4,832
75+	2701	3,017	3,345	3,606	3,978	4,219	4,338	4,507	4,519	4,603	4,719	4,617
Male	14,357	15,199	15,911	16,643	17,367	17,905	18,376	18,768	18,944	19,162	19,253	19,299
Female	10,154	10,729	11,325	11,880	12,224	12,471	12,706	12,996	13,079	13,194	13,282	13,292
White	15,884	16,661	17,336	17,912	18,399	18,673	18,846	19,027	19,056	19,050	18,984	18,901
Black	7407	7885	8351	8934	9396	9798	10,222	10,643	10,822	11,057	11,218	11,342
Native American	238	260	284	301	332	355	386	377	398	419	437	448
Asian	982	1123	1266	1376	1464	1552	1628	1717	1748	1830	1895	1900
†Hispanic				2613	2908	3103	3212	3390	7061	3560	3669	3743
†Non-Hispanic				25,993	26,807	27,424	28,046	28,568	57,442	29,065	29,173	29,167
All	24,511	25,929	27,236	28,523	29,591	30,377	31,082	31,764	32,024	32,356	32,535	32,591

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	583	602	636	676	674	665	693	682	729	757	767	775	798
20-29	1533	1581	1577	1602	1731	1774	1737	1737	1802	1889	1985	2033	2088
30-39	2136	2260	2286	2286	2383	2400	2451	2518	2631	2796	2986	3197	3418
40-49	3279	3383	3329	3198	3458	3314	3197	3202	3230	3405	3579	3896	4234
50-59	5759	6,022	5999	5,840	5830	5527	5266	5042	4897	4756	4667	4762	4830
60-64	2911	3166	3327	3314	3577	3581	3515	3378	3327	3254	3186	3111	3121
65-69	2811	2923	2857	2915	3238	3299	3331	3429	3581	3,612	3651	3720	3,751
70-79	2,893	3,148	3,263	3,448	4,068	4,307	4,415	4,619	4,878	5,056	5,205	5,497	5,963
80+	403	458	492	586	785	850	961	1068	1245	1413	1546	1695	1860
0-19	583	602	636	676	674	665	693	682	729	757	767	775	798
20-44	5123	5331	5333	5296	5665	5629	5600	5766	5932	6289	6678	7162	7556
45-64	10,495	11,082	11,185	10,943	11,314	10,967	10,565	10,111	9,956	9,811	9,725	9,837	10,134
65-74	4,721	5,016	4,938	5,116	5,774	5,924	6,020	6,172	6,441	6,584	6,661	6,909	7,230
75+	1385	1514	1673	1834	2318	2,533	2,687	2,944	3,263	3,498	3,741	4,003	4,343
Male	11,569	12,141	12,040	12,068	12,897	12,749	12,604	12,523	12,879	13,236	13,597	14,220	15,033
Female	10,738	11,404	11,726	11,797	12,849	12,968	12,961	13,152	13,441	13,703	13,974	14,466	15,029
White	16,375	17,196	17,370	17,498	18,940	18,990	19,027	19,106	19,479	19,810	20,104	20,766	21,672
Black	5,772	6,164	6,160	6,078	6,444	6,311	6,066	6,036	6,237	6,439	6,720	7,115	7,475
Native American	55	65	75	97	116	131	137	146	152	164	177	187	202
Asian	106	119	160	192	245	286	336	387	452	525	571	618	713
†Hispanic													
†Non-Hispanic													
All	22,307	23,545	23,766	23,865	25,746	25,717	25,565	25,675	26,320	26,938	27,571	28,685	30,062

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	817	834	835	882	861	857	834	836	836	901	921	923
20-29	2166	2214	2221	2264	2330	2377	2412	2446	2489	2517	2531	2545
30-39	3617	3840	4001	4155	4221	4331	4390	4491	4560	4606	4636	4614
40-49	4390	4684	4930	5334	5667	5951	6351	6730	7006	7219	7434	7577
50-59	4949	5203	5404	5591	5790	6082	6,545	6,933	7,423	7,937	8,351	8,721
60-64	3114	3054	3030	3128	3096	3169	3255	3382	3444	3526	3700	3996
65-69	3749	3831	3878	3,980	4,013	3,999	4,004	4,083	4,206	4,309	4,379	4,402
70-79	6,186	6,372	6,770	7,246	7,757	8,136	8,430	8,846	8,904	9,006	9,132	9,116
80+	2051	2268	2,471	2,837	3,078	3,359	3,674	3,994	4,338	4,658	4,890	5,075
0-19	817	834	835	882	861	857	834	836	836	901	921	923
20-44	7909	8330	8564	8923	9273	9609	9849	10148	10328	10459	10553	10589
45-64	10,327	10,665	11,023	11,548	11,831	12,300	13,103	13,835	14,594	15,346	16,100	16,864
65-74	7,317	7,544	7,827	8,042	8,244	8,413	8,486	8,665	8,784	8,912	8,993	9,056
75+	4,668	4,926	5,292	6,021	6,604	7,080	7,622	8,257	8,664	9,061	9,408	9,537
Male	15,588	16,295	17,039	18,159	19,073	20,029	21,081	22,316	23,143	24,025	24,790	25,342
Female	15,450	16,004	16,502	17,257	17,741	18,231	18,813	19,426	20,063	20,655	21,185	21,627
White	22,260	22,985	23,707	24,920	25,796	26,607	27,553	28,763	29,752	30,604	31,317	31,897
Black	7,765	8,214	8,665	9,200	9,646	10,220	10,818	11,392	11,838	12,364	12,835	13,227
Native American	222	227	239	253	277	281	308	310	319	338	354	361
Asian	792	872	930	1043	1095	1151	1215	1277	1297	1374	1468	1484
†Hispanic				2903	3170	3343	3536	3843	8,239	4300	4482	4675
†Non-Hispanic				32,625	33,810	35,106	36,569	38,134	78,712	40,717	41,906	42,786
All	31,039	32,299	33,541	35,416	36,814	38,259	39,894	41,742	43,206	44,680	45,974	46,970

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	1517	1587	1673	1762	1802	1780	1803	1807	1841	1946	1972	2002	2049
20-29	4513	4744	5109	5363	5809	6024	6178	6219	6420	6807	7203	7506	7762
30-39	6749	7525	8413	9193	10081	10956	11712	12,247	13,016	13,972	15,031	15,934	17,161
40-49	8424	9223	10005	10,891	12,395	13,252	13,948	14,859	15,958	17,767	19,732	22,000	24,597
50-59	12,666	14,165	15,743	17,141	18,559	19,749	20,734	21,626	22,830	24,346	26,203	28,508	31,305
60-64	6,502	7,363	8,668	9,949	11,498	12,797	13,935	14,685	15,941	17,015	18,342	20,002	21,556
65-69	6,152	6,784	7,630	9,051	10,630	12,007	13,516	15,341	17,265	19,183	21,402	23,830	26,234
70-79	6,188	7,345	8,795	11,065	13,309	15,628	17,841	20,474	23,041	26,158	29,706	34,371	39,882
80+	861	1080	1436	1924	2551	3,144	3,851	4,696	5,730	6,832	8,158	9,906	11,632
0-19	1,517	1,587	1,673	1,762	1,802	1,780	1,803	1,807	1,841	1,946	1,972	2,002	2,049
20-44	15,199	16,594	18,114	19,583	21,682	23,107	24,383	25,546	26,986	29,180	31,686	34,248	36,788
45-64	23,655	26,426	29,824	32,954	36,660	39,671	42,124	44,090	47,179	50,727	54,825	59,702	65,593
65-74	10,235	11,604	13,330	16,141	18,935	21,621	24,324	27,652	30,891	34,533	38,732	43,987	49,657
75+	2966	3,605	4,531	5,899	7,555	9,158	10,884	12,859	15,145	17,640	20,534	24,120	28,091
Male	29,296	32,705	36,518	41,177	46,585	51,088	55,177	59,217	64,134	70,303	77,550	85,944	95,321
Female	24,276	27,111	30,954	35,162	40,049	44,249	48,341	52,737	57,908	63,723	70,199	78,115	86,857
White	37,095	41,029	45,704	50,880	57,203	62,153	66,942	71,644	77,322	83,909	91,796	101,282	111,597
Black	15,980	18,115	20,776	24,124	27,666	31,014	33,918	37,229	41,101	45,906	50,998	57,084	63,923
Native American	222	307	409	551	703	816	957	1119	1306	1512	1717	1898	2201
Asian	275	365	583	784	1062	1354	1701	1962	2313	2699	3238	3795	4457
†Hispanic													
†Non-Hispanic													
All	53,572	59,816	67,472	76,339	86,634	95,337	103,518	111,954	122,042	134,026	147,749	164,059	182,178

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	2077	2120	2105	2108	2029	2011	2026	1919	1937	2028	2062	2011
20-29	8053	8241	8270	8337	8401	8434	8509	8558	8572	8479	8269	8153
30-39	18,093	19,026	19,572	19,912	20,097	20,112	20,301	20,729	20,990	21,217	21,306	21,475
40-49	26,543	28,446	30,465	32,719	34,459	35,950	37,530	38,969	40,184	41,435	42,420	43,247
50-59	33,871	37,013	39,573	41,734	44,816	47,914	51,668	55,210	58,895	62,671	65,511	68,146
60-64	22,773	24,013	25,305	26,750	28,020	29,372	30,799	32,300	33,731	35,026	36,978	38,680
65-69	28,480	30,670	32,302	34,011	35,768	37,083	38,335	39,658	40,789	42,190	43,212	44,013
70-79	44,294	48,879	53,718	58,573	63,776	68,702	73,045	76,305	78,838	81,339	83,202	84,277
80+	13,624	15,511	17,517	19,841	22,398	24,919	27,837	30,402	33,347	36,780	39,648	42,095
0-19	2,077	2,120	2,105	2,108	2,029	2,011	2,026	1,919	1,937	2,028	2,062	2,011
20-44	38,718	40,477	41,673	42,853	43,750	44,543	45,338	46,313	46,838	47,463	47,370	47,738
45-64	70,615	76,262	81,512	86,599	92,043	97,239	103,469	109,453	115,534	121,365	127,114	131,963
65-74	54,566	59,578	63,831	67,827	71,725	75,244	78,166	80,639	82,731	85,106	86,736	87,985
75+	31,832	35,482	39,706	44,598	50,217	55,460	61,051	65,726	70,243	75,203	79,326	82,400
Male	103,569	112,195	119,922	127,919	136,635	144,904	153,821	161,889	169,748	178,218	185,089	191,345
Female	94,239	101,724	108,905	116,066	123,129	129,593	136,229	142,161	147,535	152,947	157,519	160,752
White	119,956	128,425	136,642	145,018	154,154	162,206	170,882	179,345	187,286	195,437	201,512	207,085
Black	70,183	76,622	82,311	87,984	93,747	99,472	105,145	109,700	114,057	118,626	123,143	126,253
Native American	2453	2719	2970	3245	3430	3688	4016	4235	4390	4616	4716	4881
Asian	5216	6153	6904	7,738	8,433	9,131	10,007	10,770	11,550	12,486	13,237	13,878
†Hispanic				23,662	26,879	29,441	32,131	36,043	77,102	41,027	43,517	45,717
†Non-Hispanic				221,555	234,619	247,037	260,114	270,407	562,608	292,935	302,319	310,029
All	197,808	213,919	228,827	243,985	259,764	274,497	290,050	304,050	317,283	331,165	342,608	352,097

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	15	20	23	13	22	27	32	29	30	30	36	30	34
20-29	363	454	605	712	824	904	975	992	1048	1137	1165	1260	1265
30-39	948	1202	1543	1804	2152	2470	2783	2862	3089	3433	3739	3990	4361
40-49	892	1154	1532	1906	2379	2747	3199	3660	4132	4950	5663	6520	7,461
50-59	1313	1824	2578	3304	4016	4892	5,578	6,277	7,055	8,069	9,450	11,016	12,631
60-64	721	942	1390	1908	2504	3062	3668	4211	5,029	5,842	6,831	8,013	9,114
65-69	558	799	1088	1504	1990	2575	3217	4,067	4,869	5,965	7,118	8,494	10,054
70-79	349	567	934	1290	1775	2338	3019	3,760	4,559	5,672	7,261	9,128	11,318
80+	24	39	70	125	186	241	333	470	631	753	1016	1415	1756
0-19	15	20	23	13	22	27	32	29	30	30	36	30	34
20-44	1731	2203	2850	3392	4126	4669	5240	5525	6022	6770	7,395	8,202	8,875
45-64	2506	3373	4798	6,242	7,749	9,406	10,963	12,477	14,331	16,661	19,453	22,597	25,957
65-74	808	1205	1757	2434	3243	4,186	5,257	6,611	7,884	9,707	11,897	14,480	17,500
75+	123	200	335	485	708	968	1312	1686	2175	2683	3,498	4,557	5,628
Male	2700	3540	4786	6,040	7,576	9,235	10,881	12,398	14,240	16,577	19,475	22,814	26,465
Female	2483	3461	4977	6,526	8,272	10,021	11,923	13,930	16,202	19,274	22,804	27,052	31,529
White	3618	4802	6,621	8,339	10,401	12,406	14,486	16,465	18,914	22,240	26,192	30,764	35,533
Black	1500	2069	2898	3856	4920	6,171	7,407	8,740	10,143	11,938	14,042	16,699	19,577
Native American	58	111	172	250	343	409	518	633	779	939	1094	1228	1443
Asian	*	19	72	121	184	270	393	490	606	734	951	1175	1441
†Hispanic													
†Non-Hispanic													
All	5,183	7,001	9,763	12,566	15,848	19,256	22,804	26,328	30,442	35,851	42,279	49,866	57,994

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	32	31	23	18	22	21	20	20	19	16	13	12
20-29	1291	1232	1156	1134	1075	1007	978	975	1018	985	935	916
30-39	4616	4930	5071	5022	4970	4940	4953	5020	5110	5109	5036	5148
40-49	8,177	8,869	9,623	10,589	11,198	11,713	12,254	12,745	13,170	13,769	14,174	14,619
50-59	14,139	15,884	17,517	19,159	21,217	23,157	25,209	27,170	29,137	30,827	32,301	33,614
60-64	9,969	10,920	12,063	13,359	14,475	15,705	16,913	17,943	18,898	19,882	20,981	21,811
65-69	11,593	12,939	14,420	15,920	17,506	18,773	19,969	21,090	22,106	23,039	23,787	24,385
70-79	13,362	15,616	18,145	21,126	24,334	27,298	30,073	32,281	34,536	36,311	37,729	38,878
80+	2186	2653	3,205	3,973	4,851	5,813	6,773	7,614	8,794	10,104	11,276	12,219
0-19	32	31	23	18	22	21	20	20	19	16	13	12
20-44	9,389	9,836	10,090	10,280	10,408	10,530	10,661	10,936	11,127	11,288	11,277	11,501
45-64	28,803	31,999	35,340	38,983	42,527	45,992	49,646	52,917	56,206	59,284	62,150	64,607
65-74	20,371	23,193	26,251	29,403	32,651	35,431	37,931	40,060	42,107	43,766	45,191	46,233
75+	6,770	8,015	9,519	11,616	14,040	16,453	18,884	20,925	23,329	25,688	27,601	29,249
Male	29,931	33,539	37,415	41,914	46,480	51,184	55,968	60,150	64,791	69,157	72,984	76,777
Female	35,434	39,535	43,808	48,386	53,168	57,243	61,174	64,708	67,997	70,885	73,248	74,825
White	39,791	44,040	48,721	53,815	59,334	64,461	69,675	74,639	79,711	84,143	87,833	91,294
Black	22,208	25,048	27,932	31,233	34,569	37,686	40,482	42,592	44,867	47,044	49,132	50,536
Native American	1625	1842	2045	2266	2390	2589	2844	3022	3149	3324	3386	3512
Asian	1741	2144	2525	2986	3355	3691	4141	4605	5061	5531	5,881	6,260
†Hispanic				12,399	14,670	16,420	18,263	20,755	44,974	24,115	25,873	27,414
†Non-Hispanic				78,637	86,048	93,223	100,199	105,532	223,530	117,474	122,062	126,087
All	65,365	73,074	81,223	90,300	99,648	108,427	117,142	124,858	132,788	140,042	146,232	151,602

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	73	74	75	84	82	89	73	74	85	108	131	151	139
20-29	440	487	547	569	631	673	716	742	776	876	979	1088	1185
30-39	1062	1202	1431	1643	1819	2037	2201	2413	2655	2946	3186	3490	3842
40-49	1609	1897	2235	2549	2937	3267	3455	3698	4003	4508	5145	5792	6609
50-59	2116	2632	3301	3886	4307	4744	5073	5438	5910	6405	6999	7477	8251
60-64	1094	1382	1862	2356	2798	3298	3704	3994	4303	4719	5089	5588	6043
65-69	1038	1391	1888	2383	2985	3465	4025	4636	5,390	6,003	6,874	7,670	8,360
70-79	1125	1662	2424	3358	4,296	5,317	6,279	7,649	8,784	10,224	11,738	13,702	15,910
80+	148	260	465	649	897	1229	1566	2029	2578	3,159	3,927	4,859	5,876
0-19	73	74	75	84	82	89	73	74	85	108	131	151	139
20-44	2249	2600	3006	3389	3759	4150	4458	4823	5245	5905	6599	7360	8218
45-64	4072	5000	6370	7614	8733	9,869	10,691	11,462	12,402	13,549	14,799	16,075	17,712
65-74	1798	2499	3479	4475	5,566	6,628	7,650	9,009	10,328	11,656	13,250	15,165	17,067
75+	513	814	1298	1915	2612	3,383	4,220	5,305	6,424	7,730	9,289	11,066	13,079
Male	5083	6371	8,249	10,092	11,969	13,824	15,425	17,346	19,449	21,921	24,978	28,225	31,854
Female	3622	4616	5979	7,385	8,783	10,295	11,667	13,327	15,035	17,027	19,090	21,592	24,361
White	3901	5057	6,839	8,379	9,900	11,588	13,049	14,917	16,860	19,068	21,826	24,875	28,148
Black	4756	5855	7253	8908	10,607	12,223	13,647	15,259	17,039	19,167	21,365	23,876	26,783
Native American	23	29	40	54	66	76	83	102	114	148	168	198	238
Asian	25	46	96	136	179	232	313	395	471	565	709	868	1046
†Hispanic													
†Non-Hispanic													
All	8,705	10,987	14,228	17,477	20,752	24,119	27,092	30,673	34,484	38,948	44,068	49,817	56,215

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	138	127	113	90	93	96	92	87	68	59	60	94
20-29	1298	1378	1368	1361	1397	1454	1491	1534	1532	1485	1406	1307
30-39	4083	4317	4375	4450	4495	4506	4648	4828	4937	5117	5272	5354
40-49	7207	7820	8379	8775	9245	9665	10043	10507	10836	11174	11518	11804
50-59	8856	9,757	10,163	10,362	10,751	11,178	11,993	12,716	13,516	14,429	15,115	15,915
60-64	6,357	6,668	6,800	6,706	6,893	6,926	6,990	7,237	7,530	7,673	8,190	8,532
65-69	8,945	9,662	9,629	9,647	9,768	9,860	9,880	9,970	10,018	10,318	10,531	10,754
70-79	17,767	19,378	20,711	21,528	22,596	23,751	24,707	25,319	25,670	26,335	26,800	26,823
80+	7,068	8,005	8,838	9,719	10,797	11,773	13,079	14,335	15,509	16,888	18,270	19,482
0-19	138	127	113	90	93	96	92	87	68	59	60	94
20-44	8810	9320	9512	9788	10011	10285	10597	10986	11201	11457	11464	11590
45-64	18,991	20,620	21,573	21,866	22,770	23,444	24,568	25,836	27,150	28,421	30,037	31,322
65-74	18,700	20,308	20,817	21,098	21,467	21,895	22,146	22,308	22,351	22,931	23,222	23,455
75+	15,080	16,737	18,361	19,796	21,694	23,489	25,520	27,316	28,846	30,610	32,379	33,604
Male	35,004	38,310	40,084	41,413	43,617	45,479	47,581	49,706	51,677	54,086	56,187	57,857
Female	26,715	28,802	30,292	31,225	32,418	33,730	35,342	36,827	37,939	39,392	40,975	42,208
White	30,812	33,361	34,839	35,756	37,527	39,013	40,844	42,788	44,400	46,467	48,222	49,717
Black	29,373	31,957	33,566	34,761	36,207	37,721	39,346	40,786	42,046	43,554	45,214	46,437
Native American	253	276	283	292	306	329	341	371	374	370	382	410
Asian	1281	1518	1688	1829	1995	2146	2392	2588	2796	3087	3344	3501
†Hispanic				4376	4721	5095	5567	6331	13,510	7,265	7,709	8,092
†Non-Hispanic				68,475	71,601	74,450	77,719	80,605	166,652	86,714	90,067	92,652
All	61,719	67,112	70,376	72,638	76,035	79,209	82,923	86,533	89,616	93,478	97,162	100,065

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	559	598	651	678	695	664	670	694	697	755	747	754	769
20-29	1697	1752	1916	1981	2139	2172	2216	2253	2285	2398	2569	2620	2671
30-39	1999	2267	2546	2873	3132	3414	3594	3781	3942	4066	4341	4482	4676
40-49	1757	1949	2190	2452	2863	3084	3234	3432	3693	3987	4382	4765	5158
50-59	1996	2277	2596	2818	3160	3352	3527	3633	3730	3850	3919	4063	4350
60-64	871	1054	1321	1550	1792	1993	2145	2225	2341	2332	2419	2465	2441
65-69	776	883	1084	1233	1534	1718	1971	2230	2443	2548	2748	2943	2998
70-79	706	894	1161	1498	1856	2209	2553	2869	3192	3524	3830	4247	4,761
80+	76	111	197	250	324	443	535	653	756	902	1064	1240	1387
0-19	559	598	651	678	695	664	670	694	697	755	747	754	769
20-44	4613	5014	5538	6085	6724	7146	7480	7863	8159	8544	9234	9732	10149
45-64	3707	4285	5031	5589	6362	6869	7236	7461	7832	8089	8396	8663	9,147
65-74	1238	1454	1825	2197	2691	3085	3530	3959	4370	4638	5010	5,412	5,748
75+	320	434	617	784	1023	1285	1529	1793	2021	2336	2632	3018	3398
Male	6188	7009	8134	9142	10,477	11,342	12,180	12,855	13,497	14,285	15,291	16,273	17,245
Female	4249	4776	5528	6191	7018	7707	8265	8915	9,582	10,077	10,728	11,306	11,966
White	7981	8964	10219	11,277	12,684	13,633	14,545	15,355	16,106	16,778	17,711	18,663	19,633
Black	2273	2587	3142	3650	4279	4764	5164	5629	6087	6616	7204	7705	8240
Native American	70	79	93	121	150	168	178	199	217	214	228	243	260
Asian	113	155	208	285	382	484	558	587	669	754	876	968	1078
†Hispanic													
†Non-Hispanic													
All	10437	11785	13,662	15,333	17,495	19,049	20,445	21,770	23,079	24,362	26,019	27,579	29,211
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	789	796	783	778	760	731	718	674	669	676	687	652	
20-29	2751	2880	2983	3033	3088	3070	3090	3074	2999	2956	2881	2856	
30-39	4835	4976	5150	5302	5433	5396	5349	5444	5426	5470	5452	5486	
40-49	5569	5914	6256	6710	6998	7228	7363	7513	7578	7638	7664	7586	
50-59	4606	4835	5121	5255	5534	5876	6251	6566	6987	7440	7555	7706	
60-64	2462	2577	2594	2698	2694	2691	2697	2744	2813	2848	2963	3127	
65-69	3120	3164	3213	3277	3209	3207	3220	3195	3133	3065	3031	2973	
70-79	5,027	5,458	5,817	6,115	6,392	6,632	6,766	6,719	6,489	6,431	6,269	5,976	
80+	1491	1744	1969	2162	2345	2501	2652	2728	2833	3029	3033	3072	
0-19	789	796	783	778	760	731	718	674	669	676	687	652	
20-44	10549	10909	11349	11711	11929	11980	12014	12092	11982	12086	11951	11917	
45-64	9,674	10,273	10,755	11,287	11,818	12,281	12,736	13,249	13,821	14,266	14,564	14,844	
65-74	6,038	6,309	6,521	6,731	6,701	6,783	6,793	6,716	6,561	6,435	6,216	6,031	
75+	3600	4,057	4,478	4,823	5,245	5,557	5,845	5,926	5,894	6,090	6,117	5,990	
Male	18,154	19,105	20,002	20,785	21,532	22,038	22,580	22,927	23,102	23,463	23,507	23,527	
Female	12,496	13,239	13,884	14,545	14,921	15,294	15,526	15,730	15,825	16,090	16,028	15,907	
White	20,319	21,261	22,068	22,838	23,325	23,609	23,797	23,887	23,809	24,102	23,836	23,597	
Black	8828	9353	9925	10450	10970	11405	11,888	12,261	12,560	12,776	12,953	13,052	
Native American	289	319	353	370	400	434	456	462	467	495	513	509	
Asian	1214	1411	1540	1672	1758	1884	1965	2047	2091	2180	2233	2276	
†Hispanic				3235	3545	3761	3848	4059	8446	4314	4393	4501	
†Non-Hispanic				32,211	33,070	33,753	34,480	34,832	69,990	35,561	35,516	35,342	
All	30,650	32,344	33,886	35,330	36,453	37,332	38,106	38,657	38,927	39,553	39,535	39,434	

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*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	870	895	924	987	1003	1000	1028	1010	1029	1053	1058	1067	1107
20-29	2013	2051	2041	2101	2215	2275	2271	2232	2311	2396	2490	2538	2641
30-39	2740	2854	2893	2873	2978	3035	3134	3191	3330	3527	3765	3972	4282
40-49	4166	4223	4048	3984	4216	4154	4060	4069	4130	4322	4542	4923	5369
50-59	7241	7,432	7268	7,133	7076	6761	6556	6278	6135	6022	5835	5952	6073
60-64	3816	3985	4095	4135	4404	4444	4418	4255	4268	4122	4003	3936	3958
65-69	3780	3711	3570	3931	4121	4249	4303	4408	4563	4,667	4662	4723	4,822
70-79	4,008	4,222	4,276	4,919	5,382	5,764	5,990	6,196	6,506	6,738	6,877	7,294	7,893
80+	613	670	704	900	1144	1231	1417	1544	1765	2018	2151	2392	2613
0-19	870	895	924	987	1003	1000	1028	1010	1029	1053	1058	1067	1107
20-44	6606	6777	6720	6717	7073	7142	7205	7335	7560	7961	8458	8954	9546
45-64	13,370	13,768	13,625	13,509	13,816	13,527	13,234	12,690	12,614	12,428	12,177	12,367	12,777
65-74	6,391	6,446	6,269	7,035	7,435	7,722	7,887	8,073	8,309	8,532	8,575	8,930	9,342
75+	2010	2157	2281	2715	3212	3,522	3,823	4,075	4,525	4,891	5,115	5,479	5,986
Male	15,325	15,785	15,349	15,903	16,563	16,687	16,691	16,618	16,948	17,520	17,806	18,632	19,757
Female	13,922	14,258	14,470	15,060	15,976	16,226	16,486	16,565	17,089	17,345	17,577	18,165	19,001
White	21,595	22,206	22,025	22,885	24,218	24,526	24,862	24,907	25,442	25,823	26,067	26,980	28,283
Black	7,451	7,604	7,483	7,710	7,860	7,856	7,700	7,601	7,832	8,185	8,387	8,804	9,323
Native American	71	88	104	126	144	163	178	185	196	211	227	229	260
Asian	130	145	207	242	317	368	437	490	567	646	702	784	892
†Hispanic													
†Non-Hispanic													
All	29,247	30,043	29,819	30,963	32,539	32,913	33,177	33,183	34,037	34,865	35,383	36,797	38,758
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	1118	1166	1186	1222	1154	1163	1196	1138	1181	1277	1302	1253	
20-29	2713	2751	2763	2809	2841	2903	2950	2975	3023	3053	3047	3074	
30-39	4559	4803	4976	5138	5199	5270	5351	5437	5517	5521	5546	5487	
40-49	5590	5843	6207	6645	7018	7344	7870	8204	8600	8854	9064	9238	
50-59	6270	6537	6772	6958	7314	7703	8,215	8,758	9,255	9,975	10,540	10,911	
60-64	3985	3848	3848	3987	3958	4050	4199	4376	4490	4623	4844	5210	
65-69	4822	4905	5040	5,167	5,285	5,243	5,266	5,403	5,532	5,768	5,863	5,901	
70-79	8,138	8,427	9,045	9,804	10,454	11,021	11,499	11,986	12,143	12,262	12,404	12,600	
80+	2879	3109	3,505	3,987	4,405	4,832	5,333	5,725	6,211	6,759	7,069	7,322	
0-19	1118	1166	1186	1222	1154	1163	1196	1138	1181	1277	1302	1253	
20-44	9970	10412	10722	11074	11402	11748	12066	12299	12528	12632	12678	12730	
45-64	13,147	13,370	13,844	14,463	14,928	15,522	16,519	17,451	18,357	19,394	20,363	21,190	
65-74	9,457	9,768	10,242	10,595	10,906	11,135	11,296	11,555	11,712	11,974	12,107	12,266	
75+	6,382	6,673	7,348	8,363	9,238	9,961	10,802	11,559	12,174	12,815	13,229	13,557	
Male	20,480	21,241	22,421	23,807	25,006	26,203	27,692	29,106	30,178	31,512	32,411	33,184	
Female	19,594	20,148	20,921	21,910	22,622	23,326	24,187	24,896	25,774	26,580	27,268	27,812	
White	29,034	29,763	31,014	32,609	33,968	35,123	36,566	38,031	39,366	40,725	41,621	42,477	
Black	9,774	10,264	10,888	11,540	12,001	12,660	13,429	14,061	14,584	15,252	15,844	16,228	
Native American	286	282	289	317	334	336	375	380	400	427	435	450	
Asian	980	1080	1151	1251	1325	1410	1509	1530	1602	1688	1779	1841	
†Hispanic				3652	3943	4165	4453	4898	10,172	5333	5542	5710	
†Non-Hispanic				42,232	43,900	45,611	47,716	49,438	102,436	53,186	54,674	55,948	
All	40,074	41,389	43,342	45,717	47,628	49,529	51,879	54,002	55,952	58,092	59,679	60,996	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.4.4 (supplement)

Annual mortality rates: dialysis patients, unadjusted

per 1,000 patient years at risk, period prevalent patients, 2004, by age as of January 1, gender, race, & primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All
0-19	75.1	66	57.7	34.9	70.4	87.1	73.4	63.3	40.1	79.8	82.5	70.6	60.5	37.5	76.2
20-29	102.3	98.7	80.1	51	98.5	131.7	105.9	84.4	58.8	115	117.2	103.3	83.8	54.9	108
30-39	146.7	99.3	99.5	66.5	127	143.8	113.6	99.6	72.4	129	145.5	105.8	99.5	69.2	128
40-49	169.1	122.7	126.4	95.9	150	183	141.6	136.6	106.5	162	174.3	131.2	130.9	100.3	155
50-59	207.6	156.5	144.9	132.4	185	213.9	169	164.2	142	191	210.3	162.7	154.4	136.2	188
60-64	262	187	210	165	230	254	192	193	184	224	257.9	189.8	200.3	172.7	228
65-69	305	236	213	203	277	292	223	214	204	259	298.5	227.8	213.6	203	267
70-79	392.8	297.7	284.3	272.6	361	374.5	289.8	281.5	284.7	338	383.6	292.7	282.5	279.1	348
80+	537.9	433.9	396.2	396.3	508	513.9	413.7	375.9	398.9	472	525.9	420.2	382.8	397.7	488
All	292.2	202.9	187	199.6	258	300.6	224.8	204.5	228.9	266	296.1	215	196.7	213.5	262
HYPERTENSION															
0-19	28.1	26.7	27	11.4	26.6	31.4	29	28.5	12.7	29.6	29.6	27.8	27	11.8	27.9
20-29	43	40.6	42.6	19.4	40.2	47.4	43.7	44.5	21.4	43.8	44.7	41.7	43.4	20.1	41.5
30-39	56.9	51.6	55.9	28.5	52.1	61.3	55.1	57.4	29.6	55.6	58.2	52.7	56.4	28.9	53.2
40-49	99.3	82.6	90.4	44.9	85.6	92.4	87.9	91	46.2	87.6	96.9	84.4	90.6	45.5	86.3
50-59	150.5	124.4	135	70.6	130	156.6	123	121.2	75.3	131	152.7	123.9	130.1	72.7	131
60-64	214.6	167.7	184	114.9	185	209.6	163.6	167.6	110.4	180	212.5	165.9	175.3	113	183
65-69	265.9	202.1	237.6	160.4	234	267.5	198.2	212.2	149.4	227	266.6	200.1	224.3	155.8	231
70-79	342	285	336	225	322	347	280	315	233	316	344.1	281.9	324.5	228.5	319
80+	489	460	504	357	479	481	408	484	359	454	485.7	427.4	492.4	357.7	467
All	311.2	154.9	192	177.3	230	325.6	191.9	226.7	192.1	253	317	170.7	207.5	183.9	240
GLOMERULONEPHRITIS															
0-19	24.5	24.9	21.1	9.7	24.2	25.8	26.7	21.5	10.4	25.5	25.1	25.7	21.4	10	24.8
20-29	35.2	35.6	33.1	16.4	34.1	42.1	39.3	33	18	39.2	38	37.1	33.1	17.1	36.2
30-39	46.3	50	43.9	23.8	46.6	53.2	44.4	44.7	23.5	46.7	49.2	47.6	44.3	23.7	46.7
40-49	85.3	86.3	66.6	38.2	83.1	81.3	78.7	65.5	36.7	76.3	83.9	83.4	66.2	37.5	80.6
50-59	124.9	117.3	99.9	59.8	119	122.6	107.1	94.6	58.6	111	124	113.5	97.6	59.2	116
60-64	167.9	150.3	135.8	95.7	159	176.9	151.8	130	86.9	163	171.5	150.9	132.7	91.8	160
65-69	201.4	199.4	173.1	118.1	196	209.9	171.6	162.5	121.5	193	204.8	185.8	168.9	119.6	195
70-79	288.8	239.5	244	208.6	277	258.9	241.1	228.6	167.8	249	276.5	240.3	234.3	188.7	265
80+	412.9	394.6	393.6	305.6	407	433.4	356.4	329.2	291.8	414	420.8	374.2	356	299.5	410
All	170.4	104.4	93	86.3	143	169.1	104.3	94.9	77.4	139	169.9	104.3	93.9	82	141
OTHER															
0-19	39.5	46.6	40	18.6	41.2	43.4	53.7	41.8	20	45.9	41.3	49.6	41	19.2	43.3
20-29	52.1	74.5	59.5	29.8	58.7	60	86.6	63.6	31.8	69.4	55.7	81.3	61.5	31.1	64.1
30-39	68.9	118.3	74.5	41.6	88.3	72.2	99.8	77.6	42.5	83.3	70.4	108.6	76.1	42.1	85.8
40-49	114	145.2	110	60.2	125	107	122.4	106	63	112	110.8	134.6	108.1	61.8	119
50-59	166.3	162.7	154.8	87.7	163	152.3	154	155	101.1	151	159.7	158.8	154.9	94.3	157
60-64	230.5	222.2	200	124.7	226	225.5	212.3	196.2	133	219	228.3	217.5	198.1	129.2	222
65-69	291.3	269.7	248.7	172.3	283	260.8	247	243	164.1	254	277.6	258.1	246.1	168.6	270
70-79	361.4	346.1	314	248.5	356	353.1	334.9	295.8	240.3	345	357.8	340.4	303.5	244.2	351
80+	507.9	451	488.8	384.2	499	497.5	480.7	415.1	403.3	492	503.7	465.4	440.8	393.3	496
All	255.6	186.3	168.8	144.8	234	235.1	175.3	177	135.8	213	246.5	181	173	140	224
ALL															
0-19	34.9	38.3	33.4	15.9	35.5	37.9	43.2	31.3	16.5	38.9	36.3	40.5	32.1	16.1	37
20-29	48.9	51.6	44.6	22.3	48.7	60.9	66.8	54	27.2	61.8	54.1	58.8	49.3	24.6	54.6
30-39	83.9	70	70.2	34.2	74.7	87	75.3	76.1	36.6	78.5	85.2	72.2	73.4	35.4	76.3
40-49	128.7	101.6	109.2	61.8	113	130.2	107.9	117.1	62	116	129.2	104.1	112.6	61.9	114
50-59	180.1	139.3	141	104.2	159	181.8	147.2	156.8	104.3	163	180.8	142.7	148.5	104.3	160
60-64	238.2	180.4	203.5	143.3	212	235.3	183.4	188	150.6	210	236.9	181.8	195.1	146.4	211
65-69	284.1	224.1	213.7	181.3	260	276.6	214.8	212.9	182.4	247	280.6	218.9	213.3	181.8	253
70-79	360.4	293.9	291.4	248.1	340	354.5	287.4	282.7	254.6	327	357.7	290.1	286	251.5	333
80+	497.1	447	434.1	368.2	484	489.9	414.2	399.1	374.5	463	493.9	426.4	411.8	371.3	474
All	273.1	168.7	173.6	167.5	230	277.4	196.1	192.4	179.2	239	274.9	181.9	183.6	173.1	234

U.S. only; patients of unknown age or gender, or of other or unknown race, are excluded so that rates can be calculated appropriately. Includes all patients who have reached day 91 of ESRD by January 1 of each calendar year.

Table H.5

Total patient deaths: dialysis patients, never on transplant waitlist

by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	*	*	*	*	*	*	13	12	11	16	14	19	21
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	11	*	*	*	*
15-19	21	30	19	35	25	32	21	25	24	17	18	22	28
20-29	218	241	231	229	241	265	283	260	324	339	303	289	327
30-39	504	541	626	618	739	838	901	1,026	1,024	1,044	1,098	1,085	1,169
40-49	802	875	884	1,012	1,123	1,266	1,401	1,474	1,544	1,606	1,837	1,935	2,227
50-59	1,631	1,758	1,969	2,319	2,401	2,722	2,845	2,911	3,195	3,315	3,364	3,551	3,985
60-64	1,164	1,248	1,519	1,675	2,045	2,324	2,531	2,652	2,923	3,054	3,115	3,369	3,635
65-69	1,345	1,492	1,604	1,977	2,219	2,637	3,071	3,239	3,757	4,134	4,461	4,831	5,258
70-79	1,683	2,014	2,380	2,859	3,679	4,322	4,802	5,535	6,324	7,112	7,921	8,885	10,424
80+	356	433	572	697	1,006	1,214	1,497	1,754	2,222	2,659	2,928	3,587	4,245
0-19	41	46	35	49	47	61	47	47	51	44	45	54	64
20-44	1,063	1,166	1,233	1,250	1,489	1,623	1,780	1,950	1,986	2,102	2,219	2,249	2,493
45-64	3,256	3,497	3,996	4,603	5,060	5,792	6,181	6,373	7,024	7,256	7,498	7,980	8,850
65-74	2,359	2,735	3,041	3,682	4,359	5,131	5,784	6,361	7,267	8,003	8,734	9,692	11,091
75+	1,025	1,204	1,515	1,851	2,545	3,042	3,586	4,167	5,036	5,902	6,576	7,611	8,836
Male	4,268	4,863	5,437	6,243	7,327	8,543	9,518	10,257	11,478	12,455	13,205	14,381	16,323
Female	3,476	3,785	4,383	5,192	6,173	7,106	7,860	8,641	9,886	10,852	11,867	13,205	15,011
Unknown													
White	5,516	6,219	7,036	8,095	9,605	10,988	12,074	13,153	14,846	15,920	17,285	19,071	21,753
Black	2,044	2,219	2,525	3,081	3,578	4,280	4,855	5,265	5,961	6,786	7,096	7,811	8,750
Native American	18	21	53	54	94	118	149	167	200	223	278	265	298
Asian	*	*	35	55	99	153	203	226	252	269	390	408	505
Other/unknown	159	182	171	150	124	110	97	87	105	109	23	31	28
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
Diabetes	1,044	1,361	1,914	2,659	3,225	4,158	4,975	5,747	6,582	7,386	8,658	9,979	11,733
Hypertension	1,015	1,358	1,866	2,463	3,151	3,932	4,387	5,222	6,168	6,974	7,757	8,775	9,938
Glomerulonephritis	815	964	1,205	1,391	1,661	1,909	2,195	2,406	2,813	2,845	3,033	3,123	3,414
Cystic kidney	221	283	308	376	444	507	597	558	633	664	684	649	696
Other urologic	111	163	245	338	370	479	615	680	725	805	802	773	885
Other cause	660	716	847	1,093	1,322	1,528	1,732	1,915	1,979	2,124	2,357	2,580	2,781
Unknown cause	803	852	961	882	943	1,178	1,170	1,154	1,372	1,484	1,243	1,242	1,371
Missing disease	3,075	2,951	2,474	2,233	2,384	1,958	1,707	1,216	1,092	1,025	538	465	516
<2 years	4,896	5,217	5,805	6,790	8,057	9,174	9,923	10,916	12,404	13,442	14,691	16,304	18,447
2-<5 years	2,399	2,751	3,152	3,073	3,472	4,109	4,649	4,878	5,478	6,024	6,369	7,067	8,296
5+ years	449	680	863	1,572	1,971	2,366	2,806	3,104	3,482	3,841	4,012	4,215	4,591
All	7,744	8,648	9,820	11,435	13,500	15,649	17,378	18,898	21,364	23,307	25,072	27,586	31,334
All with unknowns dropped	6,795	7,629	8,705	10,415	12,437	14,371	16,118	17,667	19,896	21,734	23,806	26,315	29,938

The age of patient is determined as of the date of Death.

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.5

Total patient deaths: dialysis patients, never on transplant waitlist

by demographic characteristics, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	15	13	17	*	14	*	*	*	*	*	*	12
5-9	*	*	*	*	*	*	*	*	*	*	*	*
10-14	11	*	*	*	*	*	*	*	*	*	*	*
15-19	17	14	22	19	17	12	24	17	17	12	25	13
20-29	293	277	257	275	254	217	229	226	246	248	254	246
30-39	1,236	1,223	1,257	1,221	1,109	1,048	1,117	1,033	1,034	1,061	1,011	923
40-49	2,297	2,402	2,571	2,628	2,716	2,758	2,896	2,913	3,081	3,197	3,156	3,054
50-59	4,259	4,535	4,805	4,983	5,272	5,571	6,180	6,287	6,732	7,036	7,240	7,229
60-64	3,778	3,910	4,158	4,240	4,361	4,617	4,926	4,992	5,107	5,161	5,656	5,561
65-69	5,708	5,941	6,279	6,592	6,866	7,124	7,354	7,478	7,749	7,714	7,873	7,751
70-79	11,690	12,381	13,765	15,065	16,066	17,465	18,959	19,403	19,934	20,398	20,621	20,613
80+	4,952	5,655	6,344	7,181	8,120	9,146	10,373	11,312	12,418	13,512	14,406	15,067
0-19	48	40	50	43	41	35	46	32	34	29	53	32
20-44	2,541	2,547	2,638	2,580	2,446	2,383	2,510	2,401	2,408	2,530	2,457	2,292
45-64	9,322	9,800	10,410	10,767	11,266	11,828	12,838	13,050	13,792	14,173	14,860	14,721
65-74	12,081	12,835	13,754	14,558	15,216	16,037	16,803	17,036	17,434	17,649	17,755	17,562
75+	10,269	11,142	12,634	14,280	15,836	17,698	19,883	21,157	22,667	23,975	25,145	25,869
Male	17,668	18,814	20,390	21,813	22,957	24,647	26,696	27,687	29,150	30,329	31,688	32,156
Female	16,593	17,550	19,096	20,415	21,848	23,334	25,384	25,989	27,185	28,027	28,582	28,320
Unknown												
White	23,579	24,685	26,613	28,280	30,059	32,178	34,504	35,806	37,473	39,159	40,214	40,266
Black	9,764	10,517	11,530	12,235	12,804	13,677	15,123	15,314	16,259	16,447	17,189	17,308
Native American	349	387	394	487	485	523	587	661	626	681	676	647
Asian	545	738	884	1,047	1,142	1,205	1,380	1,377	1,471	1,607	1,700	1,758
Other/unknown	24	37	65	179	315	398	486	518	506	462	491	497
†Hispanic	.	.	.	3,228	3,925	4,371	4,790	5,154	5,657	5,892	6,313	6,317
†Non-Hispanic	.	.	.	39,000	40,880	43,610	47,290	48,522	50,678	52,464	53,957	54,159
Diabetes	13,222	14,333	16,074	18,021	19,599	21,715	24,185	24,892	26,598	27,466	28,580	28,670
Hypertension	11,225	12,021	12,921	13,075	13,713	14,407	15,296	15,816	16,403	17,030	17,608	17,985
Glomerulonephritis	3,482	3,588	3,849	3,900	3,998	4,050	4,238	4,178	4,168	4,272	4,138	3,836
Cystic kidney	744	738	779	776	812	752	802	773	879	834	817	777
Other urologic	896	803	929	1,119	1,186	1,249	1,389	1,498	1,561	1,626	1,667	1,699
Other cause	3,051	3,247	3,421	3,778	3,835	3,990	4,345	4,452	4,619	4,914	5,103	5,027
Unknown cause	1,302	1,287	1,403	1,462	1,591	1,740	1,746	1,976	2,047	2,162	2,241	2,275
Missing disease	339	347	110	97	71	78	79	91	60	52	116	207
<2 years	19,705	20,500	21,539	22,998	23,958	25,921	28,071	28,642	29,759	30,380	31,395	31,310
2-<5 years	9,479	10,419	11,772	12,539	13,513	14,200	15,383	15,861	16,663	17,536	17,932	17,926
5+ years	5,077	5,445	6,175	6,691	7,334	7,860	8,626	9,173	9,913	10,440	10,943	11,240
All	34,261	36,364	39,486	42,228	44,805	47,981	52,080	53,676	56,335	58,356	60,270	60,476
All with unknowns dropped	32,940	35,040	38,020	40,592	42,905	45,853	49,860	51,197	53,794	55,743	57,556	57,718

The age of patient is determined as of the date of Death.

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.6
Annual mortality rates per 1,000 patient years at risk: dialysis patients, never on transplant waitlist

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	238	216	179	199	232	186	208	236	276	297	297	369	382	300	238	259	158	221	178	182	179	144	150	178	167
5-9	149	133	95.5	58.5	89.1	200	78	90.1	107	68.3	118	180	174	188	126	77.6	177	129	149	153	56.8	88.3	44.5	199	44.9
10-14	73.6	51.4	49.4	44.2	50.8	105	96.4	78.2	146	135	189	128	160	110	91.2	102	90.2	73	71	102	52.4	58.9	86.4	108	64.9
15-19	56.7	70.8	46.3	95.2	73.7	89.6	87.3	106	99.3	82.7	72.4	92.5	161	93	92.7	93.9	88.3	84.1	66	105	108	85.7	65.1	104	65.1
20-29	89.3	95.9	91.4	90.7	92.5	102	115	124	164	166	147	145	155	140	137	132	136	126	106	115	102	112	115	116	96.8
30-39	113	112	122	113	128	138	152	180	175	175	178	164	170	177	172	170	165	151	148	155	145	146	147	135	116
40-49	132	134	124	135	134	150	170	181	185	178	184	179	187	181	177	180	173	174	169	173	166	171	172	168	151
50-59	167	164	167	182	177	193	199	209	225	221	213	208	213	215	215	216	212	212	212	222	214	218	216	213	199
60-64	237	224	227	227	235	244	254	255	265	267	249	254	257	256	249	251	250	247	253	262	256	256	249	262	245
65-69	290	283	278	292	280	293	302	286	298	297	294	285	282	283	280	280	282	281	286	290	288	293	289	288	279
70-79	354	357	355	356	362	372	365	368	371	372	362	351	357	359	344	345	349	342	348	357	352	352	351	346	344
80+	525	542	529	481	512	519	518	487	522	522	475	478	483	480	472	475	474	482	487	506	491	493	491	484	474
Male	202	209	212	220	228	249	267	280	295	296	286	281	288	289	284	287	289	285	290	298	293	297	295	295	286
Female	194	190	195	209	216	230	239	248	263	265	264	265	271	277	273	276	278	282	287	300	295	299	300	296	283
White	211	217	223	235	247	266	281	297	317	317	315	315	327	331	324	326	329	330	337	346	341	344	346	344	331
Black	172	165	164	177	177	192	205	209	217	225	212	209	211	216	214	219	219	217	220	232	226	233	227	229	221
Other race	200	206	220	201	211	231	245	245	251	238	241	212	212	203	222	224	243	247	248	264	258	251	251	246	234
†Hispanic																	242	256	262	265	256	260	257	260	242
†Non-Hispanic																	288	287	291	303	299	303	303	301	291
Diabetes	303	302	302	322	309	329	342	349	349	334	330	320	320	319	308	310	312	307	312	325	313	317	311	309	295
Hypertension	159	174	186	199	212	233	235	254	270	274	270	271	273	282	279	281	276	281	285	292	291	294	294	291	285
Glomerulonephritis	111	120	133	137	145	155	173	189	214	209	213	207	215	213	213	221	218	217	218	227	221	222	229	223	204
Other cause	224	218	213	219	229	242	258	255	268	280	257	255	270	269	267	268	278	279	282	291	294	299	305	308	300
<2 years	226	224	227	239	255	274	284	299	312	307	298	294	300	298	289	284	289	286	294	307	299	303	299	297	283
2-5 years	176	186	191	205	206	227	247	255	272	281	273	273	282	289	288	298	292	291	291	298	294	294	297	293	283
5+ years	121	135	142	160	162	174	190	198	208	217	216	214	218	229	233	248	253	263	267	278	279	290	293	296	293
All	199	201	204	215	223	240	254	265	279	281	275	273	280	283	279	282	284	284	288	299	294	298	297	296	285
ADJUSTED																									
0-19			89	113	108	141	153	156	158	150	148	166	206	190	161	146	133	131	119	131	126	117	104	126	107
20-44			133	133	136	145	159	174	187	187	184	177	182	182	177	178	175	171	167	170	162	161	163	161	147
45-64			194	208	206	219	228	234	244	240	231	225	228	229	224	224	222	221	221	228	223	225	225	225	213
65-74			312	326	318	330	332	328	329	321	312	303	305	303	295	298	301	299	303	310	305	308	309	309	302
75+			425	432	445	452	446	436	447	445	428	417	415	419	409	415	421	417	422	438	428	434	431	427	421
Male			259	269	268	281	288	293	303	299	287	276	278	277	269	270	270	265	265	271	264	265	264	263	254
Female			237	246	246	255	257	258	265	261	253	249	254	256	251	253	251	251	253	262	256	258	259	257	245
White			274	285	286	300	303	308	317	312	302	296	300	302	292	292	289	286	288	295	287	288	289	287	275
Black			198	212	208	218	227	228	236	239	228	221	222	224	219	223	223	219	218	226	220	225	222	223	215
Other race			252	245	247	259	257	252	251	237	230	208	199	191	196	201	208	208	211	224	220	218	214	210	198
Diabetes			321	337	333	345	351	355	360	347	333	324	324	323	312	313	314	309	309	317	306	306	302	299	283
Hypertension			201	209	214	229	229	236	245	248	242	239	242	246	241	243	237	235	237	244	239	240	241	240	232
Glomerulonephritis			171	174	175	183	189	194	211	210	210	203	207	205	200	204	203	201	201	206	201	204	208	206	194
Other cause			232	236	239	251	262	259	265	270	253	245	251	253	251	249	254	251	253	262	260	265	268	271	265
<2 years			268	272	275	288	291	293	301	294	280	269	272	269	259	253	251	246	247	256	249	250	248	246	234
2-5 years			245	255	250	263	271	275	286	284	274	269	273	276	271	275	271	265	263	267	258	257	256	253	241
5+ years			216	234	233	242	247	252	259	258	254	250	251	255	253	262	267	272	276	285	280	286	289	291	283
All			248	258	257	269	274	277	286	282	271	264	267	267	261	262	261	258	259	267	260	262	261	260	249

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

Table H.7
Total patient deaths: dialysis patients, on transplant waitlist

by demographic characteristics, primary diagnosis, & patient vintage

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	.	.	*	*	.	.	.	.	.	*	*	*	*	.	.	.	.
5-9	.	*	*	.	.	.	.	.	.	.	*	*	*	*	.	.	.	*
10-14	*	*	*	.	*	*	*	*	.	*	*	*	*	.	.	*	*	*
15-19	.	*	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	13	14	19	19	24	26	35	35	40	48	53	58	47	59	51	67	80
30-39	13	35	47	66	76	80	94	100	120	150	146	165	193	167	196	180	205	257
40-49	16	46	59	64	81	95	144	153	219	240	278	295	338	354	369	383	450	598
50-59	21	41	70	68	87	86	124	197	212	253	335	392	442	558	633	648	795	967
60-64	*	13	20	31	33	47	46	53	73	107	156	184	204	266	300	318	394	526
65-69	*	*	11	17	19	15	25	42	62	106	124	111	159	184	233	248	333	451
70-79	*	*	*	*	*	*	16	22	22	41	50	66	95	117	128	171	259	330
80+	.	.	.	.	*	.	.	*	*	*	*	.	*	*	*	*	14	14
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	11	*	*
20-44	27	71	88	121	135	148	187	214	257	291	316	361	384	372	402	401	439	586
45-64	32	77	122	127	161	184	247	324	402	499	647	728	851	1,020	1,155	1,179	1,472	1,842
65-74	*	11	12	23	22	20	38	60	82	144	162	162	230	281	334	383	535	701
75+	.	*	.	.	*	*	*	*	*	*	15	15	25	21	35	45	71	94
Male	37	100	129	177	193	222	283	351	420	541	651	722	894	969	1,128	1,164	1,530	1,824
Female	26	69	96	97	136	134	196	255	329	404	498	550	603	729	803	855	995	1,404
Unknown																		
White	42	102	156	191	232	254	317	385	478	599	673	765	918	970	1,113	1,156	1,457	1,850
Black	17	60	60	75	87	94	140	199	241	306	405	416	501	620	682	728	873	1,158
Native American	*	*	*	*	*	*	*	*	*	15	24	17	13	14	21	25	40	45
Asian	*	*	*	*	*	*	15	13	20	22	43	63	51	68	100	79	118	149
Other/unknown	*	*	*	.	.	.	*	.	.	*	*	11	14	26	15	31	37	26
†Hispanic	.	.	.	.	.	.	.	.	.	79	99	152	173	183	251	296	355	449
†Non-Hispanic	.	.	.	.	.	.	.	.	.	866	1,050	1,120	1,324	1,515	1,680	1,723	2,170	2,779
Diabetes	22	54	81	100	116	136	194	234	280	385	471	576	670	756	925	952	1,140	1,477
Hypertension	*	28	28	52	59	69	87	140	154	195	267	239	291	362	414	431	505	676
Glomerulonephritis	12	37	49	63	67	65	96	101	133	183	190	209	252	271	279	282	424	479
Cystic kidney	*	*	14	*	18	12	21	15	46	36	46	45	48	70	59	70	103	100
Other urologic	*	*	*	*	*	*	*	12	13	15	12	27	25	40	35	52	56	77
Other cause	*	24	28	24	39	50	63	77	92	100	138	146	171	154	178	199	234	328
Unknown cause	.	*	15	*	*	13	13	23	28	29	23	30	40	42	40	33	61	88
Missing disease	*	17	*	*	11	*	*	*	*	*	*	.	.	*	*	.	*	*
<2 years	20	48	78	77	100	113	157	204	219	262	313	333	361	382	426	371	414	526
2-<5 years	17	65	76	101	113	123	182	198	281	375	444	498	602	699	851	912	1,056	1,254
5+ years	26	56	71	96	116	120	140	204	249	308	392	441	534	617	654	736	1,055	1,448
All	63	169	225	274	329	356	479	606	749	945	1,149	1,272	1,497	1,698	1,931	2,019	2,525	3,228
All with unknowns dropped	61	161	209	265	319	343	464	583	721	914	1,122	1,232	1,443	1,630	1,877	1,956	2,428	3,114

The incident cohorts are determined at the time of ESRD initiation without applying the 60-day stable modality rule.

The age of the incident patient is determined as of the date of ESRD initiation.

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Table H.8

Annual mortality rates per 1,000 patient years at risk: dialysis patients, on transplant waitlist*from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis*

UNADJUSTED	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4			84.9	77.9	67.9						135.1	164.9	68.5	72.7	64			
5-9		28.2					24.2							39.7				70.8
10-14	24.9	56.6	27.3		35.7	23.3	22.3	11.1	13.1	25.7	10.9	23.1	48.5	12.7	14.7	48.5	11.2	10.2
15-19	20.3	27		11.3	16.8	4.5	8.8	8.5	16.5	25.2	28.4	12.3	12.8	13.7	27.2	32.8	30.8	14
20-29	15.3	17	16.4	21	21.2	23.1	18.8	25	26	27	27	29	31	23	30	26	31	35
30-39	20.8	30.1	36.8	41	42	39	41	38	39	47	44	44	50	39	40	37	39	48
40-49	35	51	49	38	42	45	54	48	59	55	62	58	61	58	55	52	56	70
50-59	52	54	85	67	68	54	63	81	71	72	81	83	80	90	83	76	81	91
60-64	38	78	93	107	99	103	89	69	82	97	109	108	109	115	103	90	101	123
65-69	56	140	103	115	119	81	72	107	105	139	142	99	117	120	113	100	115	139
70-79	274.8	453.2	60.9	206.5	119	56	155	150	126	160	150	157	164	141	121	132	162	166
80+					736.4			313	384.1	292.8	301.1		100.8	74.2	332.4	187.4	181.4	192.9
Male	32	45	49	52	49	49	50	54	54	61	65	65	72	70	70	65	76	84
Female	26	38	44	38	46	37	48	51	58	61	70	67	67	73	67	65	67	89
White	31	39	53	52	57	54	57	59	65	72	75	75	84	79	78	73	83	98
Black	22.8	46	37.1	37.6	36.2	31.9	38.6	45.7	45.6	50.3	58.4	53.8	57	62.9	59.7	57.5	61.5	77.6
Other race	47	43	36	25	24	19	41	33	34	37	60	62	47	58	58	51	59	64
†Hispanic									47.4	48.4	61.4	61.4	54	62.1	62.4	66	74.3	
†Non-Hispanic									63	70	66	71	74	70	65	73	89	
Diabetes	89.3	93.3	114.3	105.4	100.5	91	99.1	102	102.1	114.1	119.7	122.6	126.3	118.9	119.3	105.6	108.6	127.6
Hypertension	27.8	36.8	29.4	42.2	38.9	38.5	39.2	50.3	46.9	52.8	65.6	53.8	56.5	64.1	61.8	58	61	76
Glomerulonephritis	14.1	26.7	29.9	31.6	30	27.1	33.4	29.8	33.3	40.4	38.4	37.7	42.6	42.4	39.9	38	51.9	57.6
Other cause	28	38.4	44.8	33.6	43.8	36.5	38.2	40.6	51.5	46.6	52.1	52.8	56.4	56.2	48.4	49.8	57.7	70.9
<2 years	31.4	34	42.8	32.6	36.7	36.4	41.2	46.5	45	49.8	54.5	53	54.7	52.1	52.7	45.4	47.6	57.3
2-5 yrears	23	54	53	57	56	51	61	56	66	71	74	70	75	78	79	74	77	87
5+ years	32	39	46	51	53	48	49	56	59	64	74	73	79	80	72	69	85	105
All	29	42	47	46	48	44	49	52	56	61	67	66	70	71	69	65	72	86
ADJUSTED																		
0-19			49.6	52.9	58.8	29.4	25.1	17	22.4	34.5	49.2	53.6	51.7	40.8	47.8	54.3	47.4	40.2
20-44			48.5	51.5	51.7	45.7	46.5	47.7	50.4	53.9	58.5	58.8	60.1	55.1	50.6	46.1	46.2	56.6
45-64			98.9	82.3	84.5	73.8	81.4	82.6	82.4	84.8	89.7	86.9	90.8	89.9	84	74	78.8	91.4
65-74			135.4	137	113.9	89.7	101.7	120.1	123.8	150	164.1	132.4	134.3	131.4	119.2	107.3	120.3	141
75+			160.3	59.1	345.3	182.4	263.2	206	169.7	133	202	183	213	159	138	135	156	177
Male			113	89	137	107	130	114	106	102	115	103	117	102	95	84	97	109
Female			104	74	98	62	79	93	87	96	116	108	104	99	89	83	85	103
White			138	98	147	106	132	129	111	116	130	119	129	113	103	92	102	116
Black			53.9	60.6	72.4	52.1	58	60	70	73	96	81	83	80	75	72	75	91
Other race			96	62.9	43.8	50.9	80	78	110.4	76.5	81.6	91.8	79.6	78.1	75.1	62.6	71.9	85.1
Diabetes			166	120	166	128	171	160	137	142	162	141	157	142	130	116	122	136
Hypertension			80	67	90	68	80	89	80	84	106	100	100	87	82	74	81	97
Glomerulonephritis			61	56	94	60	57	61	67	74	88	79	75	71	61	59	72	84
Other cause			91	73	113	68	72	63	75	69	73	74	84	76	69	63	72	87
<2 years			81	52	79	58	76	80	71	72	83	75	79	69	64	57	61	71
2-5 yrears			122	96	140	97	127	112	108	110	125	110	116	105	100	92	99	110
5+ years			148.6	120.5	184.3	128.5	149.4	149.2	134.2	140.1	170.4	159	171.9	153.8	136.2	121.3	138.8	165.8
All			108	82	119	86	106	104	97	99	116	105	111	100	92	83	91	106

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

." Zero values in this cell.

Table H.9
Total patient deaths: dialysis patients, returned to dialysis from transplant
by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-4
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13	*	11	*	*	*	*	*	*	*	*	*
20-29	20	29	21	25	38	31	37	47	52	64	72	75	80	56	62	61	78	68	80	77	84	89	84	82	78	
30-39	31	30	45	48	76	103	114	140	154	177	162	206	202	207	203	214	234	241	234	227	237	254	222	202	204	
40-49	25	34	40	54	70	102	104	143	179	203	255	255	282	301	295	337	386	461	400	475	496	517	503	531	515	
50-59	25	28	36	56	71	65	114	110	153	144	182	212	225	242	325	353	337	361	431	483	484	546	589	619	646	
60-64	*	*	*	*	*	32	27	30	42	54	64	66	86	104	103	112	121	159	175	179	189	223	212	246	281	
65-69	.	*	*	*	*	11	14	*	32	26	35	39	35	82	63	110	97	106	124	126	171	166	160	198	215	
70-79	*	.	.	.	.	*	*	*	*	12	15	20	25	30	46	44	63	73	98	101	120	146	176	154	181
80+	*	.	.	.	.	*	.	.	.	.	.	.	*	*	*	*	*	*	*	*	*	*	13	*	12
0-19	*	*	*	*	*	12	*	11	18	14	16	15	12	16	15	13	16	11	*	14	*	12	12	*	*	
20-44	66	76	83	97	153	182	193	261	299	352	369	413	418	415	398	438	494	536	510	497	552	569	560	500	514	
45-64	43	49	65	92	112	151	203	209	281	290	366	401	457	495	590	639	662	754	810	944	938	1,060	1,050	1,180	1,210	
65-74	*	*	*	*	*	14	20	13	37	36	47	56	53	101	96	145	141	157	194	197	254	272	290	310	352	
75+	*	.	.	.	.	*	.	*	.	*	*	*	*	16	20	15	20	23	31	34	42	47	59	49	56
Male	75	91	98	119	177	249	287	320	396	429	499	535	601	620	648	714	806	841	898	999	1,039	1,166	1,138	1,152	1,254	
Female	41	42	58	77	103	112	136	176	239	265	302	354	348	423	471	536	527	640	657	687	756	794	833	897	886	
Unknown																										
White	91	96	115	131	214	261	286	325	438	485	536	578	649	712	717	823	908	958	1,008	1,048	1,136	1,253	1,247	1,258	1,304	
Black	21	33	35	54	60	92	124	153	184	196	242	289	280	310	368	398	390	478	499	586	595	645	655	709	755	
Native American	.	.	.	*	*	*	*	*	*	*	*	*	12	*	14	15	11	12	16	13	20	15	21	20	22	
Asian	.	.	.	.	.	*	*	*	*	*	14	12	*	12	19	14	24	33	32	39	42	46	47	59	58
Other/unknown	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	93	102	122	151	137	166	170	159	172
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1,240	1,379	1,433	1,535	1,658	1,794	1,801	1,890	1,968
Diabetes	20	14	27	38	50	66	77	106	135	156	188	200	228	254	267	277	321	340	387	440	463	496	481	502	544	
Hypertension	*	*	20	30	36	59	61	64	102	120	138	173	186	224	272	299	289	329	341	402	383	441	456	455	511	
Glomerulonephritis	26	24	36	48	70	84	122	128	172	181	228	258	231	289	292	349	375	427	428	432	510	540	535	615	591	
Cystic kidney	*	*	*	*	13	20	24	22	36	32	40	46	58	53	56	73	95	112	96	102	101	117	103	114	129	
Other urologic	*	*	*	*	*	*	*	13	11	*	*	*	20	24	28	27	31	34	45	49	61	70	84	69	63	
Other cause	*	15	12	14	27	39	58	65	94	93	127	145	152	153	153	167	174	203	212	226	238	246	273	243	253	
Unknown cause	*	15	15	*	30	29	21	33	34	46	44	34	49	32	43	56	46	36	44	34	38	50	39	51	48	
Missing disease	39	48	39	45	52	56	58	65	51	56	32	23	25	14	*	*	*	.	*	*	*	.	.	.	*	
<2 years	27	21	19	16	24	21	16	23	44	55	38	47	38	39	38	25	25	16	12	12	11	16	*	19	11	
2-<5 years	67	84	100	84	98	133	132	158	163	189	199	207	206	182	204	163	181	158	165	161	148	139	125	128	142	
5+ years	22	28	37	96	158	207	275	315	428	450	564	635	705	822	877	1,062	1,127	1,307	1,378	1,513	1,636	1,805	1,836	1,902	1,987	
All	116	133	156	196	280	361	423	496	635	694	801	889	949	1,043	1,119	1,250	1,333	1,481	1,555	1,686	1,795	1,960	1,971	2,049	2,140	
All with unknowns dropped	104	116	137	176	247	331	396	456	597	646	755	851	898	1,009	1,075	1,194	1,287	1,445	1,511	1,652	1,755	1,909	1,931	1,995	2,091	

The incident cohorts are determined at the time of ESRD initiation without applying the 60-day stable modality rule.
The age of the incident patient is determined as of the date of ESRD initiation.
†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.
*Values for cells with 10 or fewer patients are suppressed.
." Zero values in this cell.

Table H.10

Annual mortality rates per 1,000 patient YAR: dialysis patients, returned to dialysis from transplant

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
0-4	.	.	.	.	.	.	.	137.2	.	.	184.5	199.3
5-9	371.3	103.3	.	38.9	.	22.6	47.5	20.6	.	32.4	29.3	30.3
10-14	35.5	72.9	37.1	13.4	.	65.5	35	16.6	68.5	41.9	32.1	39.6
15-19	30.5	26.9	15.6	30.3	53.6	42.9	26.4	49	50	25	36	30
20-29	57.9	74.8	50.4	41	49	37	38	42	46	50	48	53
30-39	81	63	74	66	66	80	79	82	87	81	76	82
40-49	93	84	93	89	77	99	91	106	118	109	112	99
50-59	155	103	107	126	125	99	163	132	151	127	148	150
60-64	262	105	105	109	130	220	164	179	190	182	182	167
65-69	.	425.2	493.7	70.1	266	322	320	105	323	214	253	219
70-79	.	.	.	.	.	414.3	610.8	425.4	182	301.1	296.4	321.3
80+	.	.	.	.	.	.	.	.	.	.	.	.
Male	88	81	76	68	71	91	97	92	104	93	98	98
Female	91	69	73	76	76	65	69	79	91	88	91	93
White	100.7	79.3	82.8	70.3	81.5	87.6	88.6	86.2	104.6	98.7	100.3	99.3
Black	59	71	55	67	57	69	79	87	90	79	86	90
Other race	94	68	75	128	44	68	103	104	66	53	97	78
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.
Diabetes	269.4	144.7	216.8	210.3	180.9	214.7	209.2	230	230.9	216.8	239.6	225.6
Hypertension	53	44.4	62.2	64.3	60.6	79.2	77.5	66.2	86.1	86.2	85.7	93.9
Glomerulonephritis	54.7	34.2	45.4	46.8	46.9	47.5	61.1	56.7	69.5	66.5	72.2	74.4
Other cause	105.3	117.2	86	73.9	86.6	93.2	93	99	106.4	89.5	89.4	85.6
<2 years	91	90	87	48	56	66	51	63	95	100	74	98
2-5 yrears	80	72	81	70	72	86	87	102	102	98	97	96
5+ years	128	84	56	78	77	81	89	83	98	88	97	96
All	89.3	76.6	75	71	73	81	86	87	99	91	96	96
ADJUSTED												
0-19	.	.	.	.	.	.	.	.	.	63.3	66	91.9
20-44	.	.	.	.	.	.	.	.	.	99.1	100.2	103.6
45-64	.	.	.	.	.	.	.	.	.	159.1	162.3	155
65-74	.	.	.	.	.	.	.	.	.	253.2	286.6	228.8
75+	.	.	.	.	.	.	.	.	.	305.3	346	262
Male	.	.	.	.	.	.	.	.	.	212	221	199
Female	.	.	.	.	.	.	.	.	.	171	202	160
White	.	.	.	.	.	.	.	.	.	232.3	249.5	213
Black	.	.	.	.	.	.	.	.	.	122.1	142.1	126
Other race	.	.	.	.	.	.	.	.	.	186	204	123
Diabetes	.	.	.	.	.	.	.	.	.	278	313	233
Hypertension	.	.	.	.	.	.	.	.	.	143	173	171
Glomerulonephritis	.	.	.	.	.	.	.	.	.	121	118	146
Other cause	.	.	.	.	.	.	.	.	.	174.4	148.4	130.9
<2 years	.	.	.	.	.	.	.	.	.	169	173	154
2-5 yrears	.	.	.	.	.	.	.	.	.	205.4	227.9	185.4
5+ years	.	.	.	.	.	.	.	.	.	220	269	220
All	.	.	.	.	.	.	.	.	.	191.8	211	179.5

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

." Zero values in this cell.

Table H.10 (continued)

Annual mortality rates per 1,000 patient YAR: dialysis patients, returned to dialysis from transplant

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4		211.7				192.2				191.8	143	153.1	
5-9	42.6	15.5		38.6	37.5		58.4		95	195.7		42.3	78.6
10-14	34.6	21.1	13.7	36.7	48.7	23.3	38.4	123.6	10.6		82.5	36.3	25
15-19	43	45	46	37	36	24	37	22	29	36	26	38.5	17.9
20-29	52	40	45	41	45	44	51	44	49	61	47.1	59.2	51
30-39	76	75	61	65	75	76	71	70	74	74	65.3	53.6	60.9
40-49	100	101	91	104	104	121	100	116	116	121	116.9	117	109.9
50-59	142	137	153	159	143	150	165	169	163	162	167.4	161.7	160.8
60-64	193	205	171	199	178	227	215	227	204	233	224.5	231.6	234.2
65-69	156	314	182	299	245	255	303	236	323	284	225.8	261.2	272.3
70-79	334.4	245	320.5	274.7	245.4	329.7	352.7	338.9	343.1	347.5	406.9	312.1	349.2
80+	414.6	404.6	602.9	1143	172.1	172.4	429.9	591	443.4	569.2	829.9	318.1	449.5
Male	102	98	92	98	104	108	110	118	119	129	119.5	116.4	123
Female	83	97	93	107	98	118	114	114	121	122	127.2	129.3	125.5
White	105.4	106.9	96	111.4	117.4	124.5	124.3	125.2	132.6	141	138	132	135
Black	78	83	86	89	77	95	93	105	102	108	103.5	108.6	110.1
Other race	62	63	84	66	76	83	90	90	103	95	92.4	96.5	99.8
†Hispanic					77	73	86	98	83	101	101.2	83.2	85.9
†Non-Hispanic					104	116	114	118	124	129	125.2	126.4	128.7
Diabetes	225.5	227.3	204.2	217.2	228	228	242	264	259	267	248	233	240
Hypertension	90.8	101	108	114.4	99.4	111.4	109.3	126.5	114.7	126.9	123.3	121.8	132.3
Glomerulonephritis	64.7	75.2	65	76.3	79.1	89	82.3	79.7	94.7	94.2	92.4	101.6	94.7
Other cause	94.3	81.7	79.4	87.6	89	102	104	103	105	115	113.9	103	107.1
<2 years	86	90	89	65	81	59	62	65	65	90	55.3	128.4	67.7
2-5 years	99	94	103	85	98	96	104	112	111	117	103.9	109.8	123.6
5+ years	94	98	90	106	102	115	113	117	121	128	125	123	125
All	95	97	92	102	101	112	111	116	120	127	122.7	121.8	124
ADJUSTED													
0-19	87.8	82.4	62.7	69.2	79	59.7	54	64.5	65.1	74.7	58.9	69.8	46
20-44	93.6	91.2	81	82.3	85.4	86.9	84.7	81.4	83.2	89.6	80.8	84.8	81.4
45-64	149.4	151.3	151.4	146.1	138.5	137	134	140.3	140.6	150.2	133.3	150.6	142.2
65-74	180.6	247.5	240	257	212	221	251	229	244	247	223	233	235
75+	387	353	425	353	355	319	372	316	296	321	313	278	282
Male	208	190	205	192	187	176	186	177	178	194	176	177	174
Female	147	181	191	183	163	159	178	162	163	164	152	168	163
White	207	208	228	216	200	183	201	186	189	200	181	189	182
Black	133.8	168.9	157.9	139.6	136.1	141.6	159.9	146.4	142.6	149.9	140.5	145.8	144
Other race	131.1	132	128.5	173.5	140.7	156.8	140.5	151.6	138.7	131.6	111.5	128	134.5
Diabetes	226	250	279	255	219	216	245	229	224	232	211	211	208
Hypertension	163	162	165	168	169	147	161	149	147	151	141	154	151
Glomerulonephritis	149	144	135	142	128	126	120	111	122	135	124	145	138
Other cause	145.7	143.9	145.3	141.5	146.4	151.8	146.3	145.5	155.1	172.8	152.3	149.4	139.2
<2 years	145	155	167	148	137	119	129	108	111	130	108	146	126
2-5 years	193	194.3	216.4	194.8	185.4	179.9	204.5	200.3	198.1	197.2	182.7	171.3	184.7
5+ years	229	241	243	256	237	242	263	254	253	253	246	222	227
All	179.4	187.2	198.6	186.7	175.1	167.2	182.4	170.5	171.1	179.9	163.7	172.8	168.3

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

"." Zero values in this cell.

Table H.11
Total patient deaths: hemodialysis patients

by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15-19	21	25	14	25	18	25	11	18	18	14	14	21	25	20	11	15	17	19	12	20	14	18	16	26	16	
20-29	199	223	208	191	200	219	224	226	273	306	280	270	313	287	260	263	290	287	268	267	285	316	312	318	335	
30-39	435	465	534	523	619	676	694	845	861	896	998	996	1,045	1,088	1,104	1,173	1,218	1,137	1,122	1,255	1,184	1,220	1,211	1,210	1,167	
40-49	728	774	776	862	923	1,041	1,090	1,205	1,301	1,399	1,599	1,697	1,939	2,034	2,139	2,361	2,481	2,709	2,789	3,082	3,174	3,376	3,504	3,593	3,611	
50-59	1,453	1,584	1,746	2,029	2,066	2,266	2,336	2,427	2,675	2,839	2,906	3,037	3,416	3,647	4,000	4,185	4,430	4,851	5,313	6,093	6,380	6,992	7,401	7,786	7,997	
60-64	1,064	1,147	1,350	1,465	1,767	1,994	2,105	2,219	2,469	2,592	2,645	2,842	3,103	3,138	3,326	3,599	3,675	3,896	4,267	4,694	4,850	5,106	5,214	5,788	5,848	
65-69	1,239	1,351	1,464	1,750	1,973	2,272	2,603	2,725	3,169	3,569	3,832	4,058	4,440	4,820	5,078	5,342	5,752	6,090	6,459	6,898	7,073	7,418	7,517	7,787	7,880	
70-79	1,517	1,849	2,149	2,527	3,324	3,817	4,196	4,808	5,482	6,250	6,974	7,754	9,065	10,182	10,662	12,023	13,233	14,357	15,892	17,533	18,107	18,806	19,476	19,808	19,942	
80+	312	390	511	597	907	1,081	1,327	1,577	1,991	2,393	2,660	3,242	3,839	4,491	5,122	5,737	6,564	7,466	8,541	9,827	10,744	11,833	12,985	13,830	14,504	
0-19	35	35	22	31	25	34	25	31	36	29	27	37	44	36	25	31	26	26	27	34	23	28	28	45	20	
20-44	946	1,026	1,070	1,061	1,234	1,314	1,384	1,613	1,667	1,824	1,992	2,019	2,236	2,282	2,307	2,477	2,541	2,515	2,558	2,768	2,733	2,787	2,914	2,892	2,866	
45-64	2,933	3,167	3,544	4,009	4,341	4,882	5,065	5,309	5,912	6,208	6,436	6,823	7,580	7,912	8,522	9,104	9,553	10,365	11,201	12,623	13,140	14,223	14,728	15,803	16,092	
65-74	2,160	2,496	2,760	3,261	3,897	4,469	4,957	5,425	6,195	6,943	7,566	8,253	9,474	10,359	10,973	11,791	12,698	13,480	14,528	15,599	15,965	16,557	17,057	17,331	17,454	
75+	908	1,094	1,364	1,613	2,307	2,701	3,169	3,685	4,447	5,269	5,900	6,801	7,870	9,134	9,889	11,311	12,851	14,433	16,364	18,659	19,959	21,500	22,921	24,094	24,872	
Male	3,905	4,436	4,885	5,537	6,416	7,366	7,955	8,737	9,787	10,821	11,521	12,406	14,043	15,273	16,380	17,830	19,452	20,913	23,036	25,654	26,850	28,702	30,179	31,832	32,780	
Female	3,077	3,382	3,875	4,438	5,388	6,034	6,645	7,326	8,470	9,452	10,400	11,527	13,161	14,450	15,336	16,884	18,217	19,906	21,642	24,029	24,970	26,393	27,469	28,333	28,524	
Unknown																										
White	4,954	5,587	6,206	6,961	8,262	9,227	9,858	10,900	12,316	13,453	14,724	16,133	18,372	19,837	20,821	22,723	24,582	26,587	29,219	32,226	33,794	35,880	37,907	39,393	39,977	
Black	1,862	2,037	2,310	2,772	3,253	3,841	4,346	4,722	5,452	6,269	6,577	7,153	8,074	9,047	9,824	10,760	11,534	12,436	13,421	15,121	15,532	16,615	16,977	17,860	18,322	
Native American	15	20	50	49	83	95	126	140	159	191	236	237	266	312	341	361	443	457	495	562	656	621	691	676	667	
Asian	*	*	33	46	92	134	182	219	235	260	365	384	465	502	696	812	948	1,065	1,193	1,321	1,350	1,499	1,612	1,739	1,851	
Other/unknown	144	167	161	147	114	103	88	82	95	100	19	26	27	25	34	58	162	274	350	453	488	480	461	497	487	
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3,002	3,630	4,150	4,694	5,058	5,577	5,936	6,396	6,577
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	34,667	37,189	40,528	44,989	46,762	49,518	51,712	53,769	54,727
Diabetes	852	1,127	1,595	2,157	2,678	3,415	3,996	4,717	5,518	6,340	7,411	8,495	10,027	11,227	12,216	13,857	15,769	17,468	19,900	22,827	23,776	25,796	26,887	28,290	28,841	
Hypertension	914	1,220	1,646	2,133	2,805	3,391	3,805	4,559	5,405	6,171	6,914	7,730	8,747	9,879	10,711	11,492	11,818	12,656	13,544	14,676	15,259	15,982	16,805	17,444	18,014	
Glomerulonephritis	727	877	1,073	1,217	1,455	1,611	1,807	2,036	2,373	2,410	2,635	2,719	2,936	3,061	3,112	3,443	3,510	3,713	3,840	4,103	4,232	4,274	4,436	4,437	4,265	
Cystic kidney	206	260	280	326	372	431	501	459	530	565	594	570	612	638	638	688	722	764	732	792	805	924	879	903	887	
Other urologic	101	144	219	295	319	421	539	601	636	725	725	684	791	810	721	841	1,021	1,080	1,182	1,327	1,436	1,524	1,608	1,677	1,701	
Other cause	598	650	769	964	1,161	1,326	1,453	1,634	1,697	1,870	2,068	2,256	2,414	2,660	2,872	3,024	3,409	3,615	3,787	4,233	4,342	4,560	4,921	5,111	5,131	
Unknown cause	713	777	855	774	834	1,024	996	996	1,170	1,313	1,111	1,076	1,217	1,164	1,149	1,270	1,339	1,457	1,620	1,650	1,881	1,983	2,072	2,194	2,268	
Missing disease	2,871	2,763	2,323	2,109	2,180	1,781	1,503	1,061	928	879	463	403	460	284	297	99	81	66	73	75	89	52	40	109	197	
<2 years	4,305	4,601	4,985	5,681	6,873	7,643	8,150	9,060	10,388	11,481	12,526	13,734	15,538	16,533	17,299	18,279	19,857	21,081	23,422	25,903	26,585	27,883	28,688	29,756	29,903	
2-<5 years	2,271	2,605	2,971	2,836	3,134	3,617	3,962	4,198	4,730	5,291	5,675	6,288	7,381	8,338	9,156	10,287	11,128	12,134	13,016	14,536	15,181	16,247	17,278	17,846	18,092	
5+ years	406	612	804	1,458	1,797	2,140	2,488	2,805	3,139	3,501	3,720	3,911	4,285	4,852	5,261	6,148	6,684	7,604	8,240	9,244	10,054	10,965	11,682	12,563	13,309	
All	6,982	7,818	8,760	9,975	11,804	13,400	14,600	16,063	18,257	20,273	21,921	23,933	27,204	29,723	31,716	34,714	37,669	40,819	44,678	49,683	51,820	55,095	57,648	60,165	61,304	
All with unknowns dropped	6,138	6,887	7,761	9,066	10,860	12,283	13,521	14,995	16,999	18,878	20,791	22,833	25,963	28,538	30,533	33,388	36,173	39,094	42,718	47,592	49,465	52,645	55,125	57,492	58,563	

The age of patient is determined as of the date of death.

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.12
Annual mortality rates per 1,000 patient years at risk: hemodialysis patients

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	104.5	151.6	118.4	53.3	76.8	144.6	303.9	214.8	300.9	205.7	196.9	336.1	400.1	449.6	184.9	277.9	130.4	117.8	245.9	144.2	188	145.8	79.6	189	.
5-9	86.3	52	37.5	38.4	20	54.1	0	55	25.6	52.9	51.7	74.7	72.2	43.4	64.4	62.1	65.7	19.4	54	36.5	41.9	91.2	37.6	113.1	45
10-14	48	31.9	25.8	22.4	26.5	49	46.6	38	66	60	51	39	56	37.6	39.7	31	32.9	21	63.4	78.3	21.6	19.4	56.2	62.5	12.6
15-19	39.9	39.7	23.5	46	35	46	32	43	37	32	25	38	58	42.9	31.6	33.3	38.1	41.4	31.1	32.9	40.7	38.9	36.8	50.2	39.1
20-29	65	71	64	58	61	65	65	68	81	80	70	70	75	64.9	59.6	58.7	61.9	56.6	52.3	52.4	51.3	58.3	58.1	59.6	58.3
30-39	89	86	94	86	95	100	100	116	107	109	113	103	103	104	101	102	102	92	88	95	87	88	86	83	79
40-49	118	118	109	115	111	123	127	130	133	128	131	128	131	125	121	124	119	123	118	122	118	122	120	121	117
50-59	154	156	158	170	165	175	175	177	188	185	178	171	174	172	173	169	166	165	165	172	166	169	167	167	163
60-64	227	216	217	216	224	234	239	239	244	247	230	232	233	227	220	221	216	213	218	225	217	216	210	221	212
65-69	281	275	274	284	275	285	292	273	284	288	280	266	267	266	264	260	262	263	264	267	262	265	259	259	254
70-79	339	352	349	346	358	364	357	359	361	364	356	342	348	350	331	336	339	334	339	348	343	342	341	336	334
80+	507	542	526	453	502	507	509	483	509	513	469	470	474	471	464	465	467	475	483	503	490	490	490	481	471
Male	183	190	192	199	207	224	229	236	243	247	237	230	236	234.5	230.4	231.8	233.9	230.5	233.6	241.3	235.8	238.7	237.4	238.8	236.7
Female	172	172	176	183	195	204	211	214	226	230	229	230	237	239	235	239	239	243	247	257	253	255	254	253	247
White	188	197	202	210	225	240	246	255	268	271	270	271	281	282	274	278	281	281	286	294	289	290	291	291	285
Black	155	150	149	159	160	172	181	179	187	193	182	176	178	181	180	182	180	181	182	191	186	191	187	189	187
Other race	172.3	180.8	196.1	179.1	187.1	193.8	201.6	201.2	194.6	188.9	185.9	168.7	168.2	162	180.7	182.2	195.7	199.2	202.3	208.2	204.1	197.8	194	189.8	185.8
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	193	200	205	209	200	201	199	202	195
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	241.1	240.8	244.1	253.6	249.5	252.7	251.8	251.7	248.2
Diabetes	271	276	285	300	294	312	311	312	312	302	295	286	288	282	270	272	275	269	274	286	275	277	271	270	263
Hypertension	142.7	157.1	167.7	177.6	195.3	208.5	210.2	224.7	236.1	240	236.7	234.7	236.4	241.6	240.5	240.5	236.4	240.3	243.4	248.9	245.6	247.1	248.2	246.5	245.3
Glomerulonephritis	91	101	110.8	113.5	121.9	127.2	136.2	145	160	154.6	159.1	155.4	158.4	157.4	152.1	160.1	154.8	155	153	156	156	155	158	156	149
Other cause	206.6	204	198.3	202.1	209.5	220.6	227.2	217	222.2	235	214.3	209.1	221.1	218.3	215.9	215.6	224.2	225.4	225	231.4	232.1	235.1	238.3	241.5	240.4
<2 years	199	201	204	214	234	249	250	254	262	261	253	249	256	251.2	242.9	240.1	245	242	249	259	252	255	253	253	247
2-5 years	163	171	175	184	186	205	218	223	237	244	237	235	242	245.6	245.8	251	246	244	244	252	245	246	246	243	239
5+ years	109.9	122.6	132	144	145	152	162	166	174	181	181	177	179	187.6	187.9	201.1	201.2	212.2	212.8	220.4	222.4	227.5	227.1	230.2	230.9
All	177.8	182	184	192	201	214	221	225	235	238	233	230	236	237	232	235	236	237	240	249	244	246	245	245	241
ADJUSTED																									
0-19	71.7	69.5	54.2	62	56	74	80	81	82	76	66	74	93	87.8	72.5	64.6	58.9	56.4	58.6	61.7	59.7	59	58.1	71.4	57.1
20-44	114	115	115	113	115	119	122	126	130	128	125	120	121	118	113	114	113	111	108	109	104	103	103	103	100
45-64	184	184	185	196	196	206	207	207	212	210	200	193	194	190	184	183	179	176	175	181	175	176	174	175	171
65-74	283	300	309	317	313	324	323	317	319	316	305	293	295	292	284	287	287	286	288	295	288	289	287	286	282
75+	394	402	417	417	443	440	432	429	438	441	426	413	413	413	402	410	417	414	420	437	428	432	428	424	421
Male	241	247	252	258	260	269	267	268	272	270	257	245	245	241	233	232	233	228	228	233	226	226	223	223	220
Female	214.3	219.8	223.1	226.7	231	237.3	235.8	234.2	238.5	236.2	228.8	224.7	228.6	227.3	221	222.2	220.5	220.9	221.5	229	223.3	224.2	223.4	222.3	216.8
White	248.7	256.8	263.1	267.9	273.3	283.9	280.1	280.7	284.5	281.1	270.9	264	267.3	264.5	254	253.3	251	247.8	248.1	254.1	246.5	245.8	244.3	243.2	238.1
Black	191.5	190	187.8	199.3	198.9	203.8	208.4	206.9	214	217.9	207	198	197.1	196.1	191.6	194	193.7	192	190.5	197.9	193.3	196.9	193.9	194.2	191.7
Other race	213.3	224.4	242.3	233.9	241.4	243.4	234.5	231	221.6	209.7	198	179.7	171.2	163.7	167.6	171	176.5	177.6	181.1	188.2	183.3	179.5	173.1	169.5	164.3
Diabetes	295.7	300.2	307.2	318.8	320.7	328.7	326	326.1	327.8	319.1	305.5	294.5	294	288.3	276.2	276.4	276.9	270.1	270.7	280	269.8	269.3	263	260	252.2
Hypertension	177.8	187.4	191.4	195.4	203.7	213.3	210.6	215	221.5	224.9	218.8	214.4	215.9	216	211.5	213.4	208.4	206.8	207.7	212.9	207.3	207.6	207	206.6	204.1
Glomerulonephritis	151	153.8	162.7	163.9	166	171.3	171.4	171.5	183.9	182.5	181.8	173.9	176.3	173.2	167	170.3	168.7	166.7	165.3	168.8	165	166.3	167.7	167.4	162.8
Other cause	221.4	226.7	225.7	226.9	228.7	237.4	241.1	234.1	233.9	239.3	222.3	212.9	216.4	215.7	212.8	211	214.6	215.2	215.8	222	219.3	221.7	223	225.7	225.5
<2 years	250.6	249.8	250.8	253.4	261.2	270.8	266.8	262.8	264.6	259.8	246.2	235.4	237.8	231.7	222.1	216.9	216	211.4	212.1	218.4	211.8	212.2	210.1	209.8	204.8
2-5 years	228.7	233	235.2	239.2	237.7	247.7	249.7	251.4	258.3	257.6	247	240.2	242.3	241.2	234.8	236.1	232.7	227.1	224.4	228.7	220.4	218.7	216.6	214	209.2
5+ years	186.5	204.7	217	228	227.3	231.5	231	235	240.7	241.2	237	231.4	230.6	231.4	227.7	237.2	239.5	245.2	248.3	256.6	252.6	255.8	254.8	254.8	252.5
All	228.4	233.9	238	243.1	246.1	254.5	253	252.6	256.8	254.5	244.1	235.8	237.3	234.4	227.2	227.6	226.7	224.4	224.7	230.8	224.4	224.9	223.1	222.3	218.1

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

." Zero values in this cell.

Table H.12.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: hemodialysis patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

ALL	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	55.7	63.3	59.3	79	82	87	88	77	67	76	94
20-29	93	92	88	93	94	94	103	106	98	94	94
30-39	114	112	118	123	127	133	132	128	127	121	120
40-49	137	142	139	146	151	152	154	149	146	142	145
50-59	176	188	188	197	194	194	201	198	190	180	182
60-64	238	239	244	255	256	255	257	254	240	234	236
65-69	294	303	301	306	309	296	299	295	286	272	270
70-79	361	361.7	376.1	389.5	378.4	375.1	374.7	371.5	360	345.3	349
80+	534.7	491.5	518.5	521.8	514.8	493.8	516.9	518	476.1	462.4	470.2
0-19	55.8	61.2	57.2	77.6	83.4	84.6	86.7	77.8	67.6	77.9	101.3
20-44	114.7	111.7	115.7	120.2	123.2	127.4	130.7	128.6	125.3	120.3	121.5
45-64	186.4	196.4	197.8	208.6	209.4	209.1	213	209.9	200.4	193.4	195
65-74	315.5	320.6	321.7	331.9	330.3	321.8	322.4	318.4	306.6	293.6	296
75+	435.4	431.3	463.2	460.7	444.9	438.7	445.7	445.4	430	415	416.2
Male	260.4	261.3	265.5	276.9	273.5	271.8	275.4	272.2	257.9	244.8	245.4
Female	230.2	229.7	235.2	241.2	238.1	236	239.5	236.1	228.3	223	227.7
White	274.5	273.9	279.1	290.3	284.8	283.4	286.3	281.6	270.1	261.3	265.4
Black	192.8	200.9	200	207.5	212.2	209.6	216.1	219.4	207.5	197.6	197.4
Native American	180.3	171.6	199.6	213.3	219.4	224.5	206.5	201.3	211.1	191.8	190.3
Asian	233	208.3	253.5	245.2	225.1	223	211.1	186.8	182.8	167.8	163.6
†Hispanic											
†Non-Hispanic											
All	246	246.4	251.2	260.2	257.3	255.4	258.9	255.5	244.3	234.8	237.1

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	86	72	63.2	57.3	55.6	54.5	56.7	53.4	55.6	54.9	66.5	53.5
20-29	88	82	77	79	76	73	71	67	73	75	77	74
30-39	116	110	111	112	108	104	107	101	101	99	96	92
40-49	140	133	133	129	130	129	131	126	127	127	127	123
50-59	179	175	173	170	166	164	170	164	165	166	165	162
60-64	231	223	221	219	214	214	220	213	213	209	214	209
65-69	265	260	259	259	257	259	263	256	257	254	255	250
70-79	345.9	331.2	331	333.4	328.4	329.8	339.3	332.8	333.7	332.4	328.6	325.3
80+	468	454.5	461.8	467.2	466.9	474	499.4	483.7	485.3	480.4	474.1	464.7
0-19	87.4	73.7	64.7	58.1	56.4	54.9	57.6	56	56.2	55.3	67.1	54.9
20-44	117.8	112.3	112.7	111.9	109.9	107.2	108.1	103.1	101.7	102.6	102.2	99.3
45-64	190.2	183.3	181	177.7	174.2	173.1	178.3	172.4	173.5	171.7	172.7	168.9
65-74	292.6	283.1	283.3	283.4	280.9	281.7	287.8	281.2	282.1	280.6	280.1	275.5
75+	413.6	401.2	404.9	410.3	405.2	409.9	426.1	416.1	419.1	416.2	411.7	407.5
Male	240.3	231.7	229.7	229.5	224.5	223.7	228.7	221.6	221.7	219.3	219	215.6
Female	225.5	218.6	218.8	216.9	217	217.3	224.7	218.8	220	219.4	217.9	212.5
White	261.3	250	247.5	245.1	241.4	241.5	247.4	239.7	239.1	237.4	236	230.5
Black	196.3	191.3	193.3	192.8	190.8	189.7	197.8	193.2	197	194.1	194.4	192.2
Native American	193.3	187.4	177.1	189	185.8	195.8	198.5	215.7	210.7	212.8	199.6	189.9
Asian	148.9	157.6	163	167.6	165.2	167	167.7	156.6	154.6	150.2	150	149.3
†Hispanic				192.5	200.1	204.7	208.6	199.9	200.5	199.4	201.6	194.73
†Non-Hispanic				241.1	240.8	244.1	253.6	249.5	252.7	251.8	251.7	248.24
All	233.2	225.4	224.6	223.5	220.7	220.6	226.7	220.1	220.7	219	218.1	213.8

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.12.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: hemodialysis patients, by primary diagnosis, adjusted

period prevalent patients, 2001 ESRD patients as reference

DIABETES	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	104	120.4	110	147.6	157.4	161.9	160.6	136.9	119	135.9	161.8
20-29	166.1	166.8	155.9	168.3	171.2	168.6	184.8	184.8	170.2	161.6	156.3
30-39	193.4	193.1	200.7	213	220.6	226.8	224.7	210.6	206.6	196	188
40-49	221	233.6	225.2	232.5	244.4	243	240.3	232.3	222.4	216.1	214.6
50-59	261.2	281.7	276.4	289.1	283	282.7	288.3	272.1	256.6	239.3	242.1
60-64	331.7	335.9	335.9	351.4	342.2	339.1	333.9	321.8	302.5	293.1	296.6
65-69	380.7	397.1	389.3	388.3	395.1	375	372.8	364.2	348.5	329.8	320.8
70-79	432.1	433.8	451.3	474.7	449.4	445.5	437.6	429.8	413.5	396	403.5
80+	581.9	538.8	582.8	571.3	558.1	537.6	583.4	580.8	508.3	495.1	511
0-19	103.7	114	104.1	144.9	159.3	154.5	155.7	136.4	118.3	137.8	176.9
20-44	198	192.7	201.2	211.4	216	218.1	223	214.5	206.3	196.9	192.1
45-64	268.5	289.5	283.7	299.1	296.9	295.8	295.6	282.5	267.1	255.1	257.3
65-74	405.9	415.7	408.6	418.7	416	398.7	392.6	384.2	366.5	348.2	349.3
75+	486.3	488.2	547	531.1	491.6	497.5	505.9	497	473.5	458.8	458.7
Male	338.3	344.2	347.7	359.7	353.1	348.7	351.5	339.4	318.7	298.8	300.6
Female	307	310.5	313.9	325.1	322.4	317.7	317.8	309	292.7	287.7	288.6
White	371.9	374.5	382.8	398.7	390.2	386.4	384.4	370.4	351.5	337.3	339.8
Black	220.2	237.8	227.4	236.6	242.8	238.1	248.7	248.1	230.7	220.8	220.5
Native Ameri	210.7	199.5	269.9	243.5	258.1	242.4	244.6	246.7	248.8	232.1	232.6
Asian	403.3	356.8	378.1	352	312.6	306.7	309.6	268.7	243.1	218.1	224.1
†Hispanic											
†Non-Hispanic											
All	323.6	328.5	331.9	343.3	338.8	334.5	336.1	325.3	307	293.6	295

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	144.2	118.4	101.4	92.6	90.3	88.9	92	83.9	89	88.9	105.3	82.6
20-29	147.2	135.6	122.9	128	123.7	121	115.8	102.7	116.4	120.6	123.9	114.4
30-39	177.4	162.9	163.9	170.6	166	160.7	165.7	153.7	154	152.8	146.6	137.8
40-49	203.5	191.2	189.5	183.5	183.2	179.4	186.6	175.5	173.8	170.3	168.6	162.2
50-59	234.2	223.1	219.2	214.6	206.9	205.3	211.7	204.1	205.4	197.5	195.2	191
60-64	282	267.5	264.1	257.5	246.7	249	256	246.1	240.4	232.7	234.9	230.2
65-69	313.7	299.2	297.3	297.6	296.9	295.2	298.5	287.7	287	279.4	277.3	269.3
70-79	400.9	383.9	375	376	363.1	365.7	376.8	365.7	366.1	361.7	355.2	346.8
80+	509.6	493.1	503.4	524.1	514.2	512.9	552	527.1	529.2	515	505.9	484.4
0-19	143.1	119.1	102.5	92.3	90.2	87.5	92	88.9	88.8	87.4	103.9	84.2
20-44	182.3	170.6	171.5	173.9	171.4	166.4	168.6	159.1	155.1	155.9	153.5	146.9
45-64	246	233	229	223.5	215.6	215.5	223.2	214	213.5	205.7	205	200.2
65-74	345.3	329.3	323.1	322.2	317.2	317.5	323.5	312.6	312.4	307	302.5	293.2
75+	455.6	442.6	444.4	456.2	440.8	441.5	463.7	447.4	449.8	441.4	435.3	424.7
Male	292.2	277.7	273.1	276.1	265.7	263.9	272.5	260.8	261	254.1	250.8	243.2
Female	282.6	269.1	266.6	262.5	259.9	260.3	269.8	258.5	258.5	254.1	251.6	242.6
White	333.4	314.4	308	306.4	295.5	294.3	304	289.2	287.6	280.3	276.6	267.4
Black	214	204.6	207.2	206.3	207	205.7	215.8	210.6	215.2	211.1	209.9	203.3
Native Ameri	210.4	203.8	198.7	212.5	210.5	213.5	216.2	219.2	210.4	216.4	205.5	193.5
Asian	187.8	203	203.7	222.2	216.3	218.6	212.3	196.6	187.2	184.3	180.4	180
†Hispanic				226.7	235.5	244.5	241.4	229.6	231.3	224.1	225.3	221.34
†Non-Hispanic				282.7	274.5	279.3	294.6	283.7	287	280.9	280	271.95
All	287.5	273.6	270	269.9	262.7	262	271	259.5	259.8	253.9	250.8	242.6

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.12.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: hemodialysis patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

HYPERTENSION	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	20.8	23.8	25	31.9	32.8	37.2	39.2	38	32.9	39.1	51.7
20-29	40.2	39.9	42.4	43.9	43.4	46	50.5	57.1	51.3	52.5	52.9
30-39	56.7	55.7	61.9	62.5	63.6	70.9	71.7	74.7	77.1	72.4	78.1
40-49	78.1	80.3	82.7	84.4	88.1	93.1	95.6	96.6	98.3	95.8	106.9
50-59	116.8	127	136.3	142.1	141.9	141.2	151.5	155.1	155.8	153.6	154.5
60-64	176.7	183	191.3	205.1	211.4	215.8	216.7	226.5	216.1	218.8	213.5
65-69	245.4	255.3	260.9	267.4	264.7	261.4	272.5	268.2	264.5	254.2	256.6
70-79	323.1	323.2	348.2	366.7	351.1	361.2	363.8	366.2	352.8	339.8	340.7
80+	539	490.3	505.9	517.6	509.2	502.6	519	521.6	495.5	471.2	471
0-19	21.4	25.3	25.2	32.4	35.2	39.7	43.3	41.7	36.7	43.1	60.2
20-44	55.3	57.3	58.8	59	63.4	70.3	73.6	76.5	77.2	74.4	79.7
45-64	135	141	151.3	159.7	163.2	165.4	170.6	176	172.9	172.6	172.7
65-74	265.1	270.2	283.7	297.2	291.3	295.7	302.2	301.7	293	281.5	286.4
75+	421.7	413.6	440.5	451	431.9	436.4	444.6	448.5	431.4	417.3	416.5
Male	204.7	205.4	214.2	228	228.1	230.3	236.4	238.1	229	219.9	221.1
Female	184.4	183	195.9	198.4	191.2	196.8	202.3	204.6	202.7	199.5	204
White	216.8	216.4	226.5	237.5	231	236	244.7	247.8	241.2	236.8	242.5
Black	159.4	159.2	162.7	168.3	172.4	170.9	176.6	180.2	176.1	169.4	168.3
Native American	98.9	170.8	148.6	211	210.8	218.8	155.5	164	179.5	138.3	153.1
Asian	121	115.6	207.7	175.2	174.1	188.6	167.8	149.6	151.2	133.9	115
†Hispanic											
†Non-Hispanic											
All	195.1	195	205.5	214.2	211	214.5	220.5	222.6	216.5	210.4	212.9

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	48.3	39.9	37.3	30.7	29.5	28.4	30.1	30.4	31.5	30	37.1	32.1
20-29	51	44.2	46.3	42.3	42.3	39.4	39.1	39.5	42.2	41	43.1	46.7
30-39	75.8	75.5	77.8	71.3	66.2	63.2	65.3	63.8	64	61	60.7	60
40-49	101.7	97	94	89.9	94.6	95.8	95.9	95.2	94.8	94.2	98.5	93.8
50-59	150.6	153.1	152.5	148	141.9	140.8	149.5	141.5	145.8	149.1	147	145.3
60-64	219.2	208.8	216.6	206.5	199.2	201.8	208.6	204.2	202.5	195.3	202.6	196
65-69	252.5	256.5	256.1	254.9	247.4	251.1	253	242.4	248.5	248.6	242.8	242
70-79	341.1	325.5	328	325.4	326.4	327.7	335.3	328.7	326.3	325.5	320.9	319.5
80+	470.9	467.6	461.4	459.7	464.9	471.8	485.1	479.2	479.1	476	469.5	462.7
0-19	56.5	47.7	42.1	34	32.9	31.8	33.6	33.5	34.5	33.5	41.7	35.1
20-44	82	78.8	76.8	69.5	70	68.6	67.9	65.1	65.3	66.2	67.8	67.4
45-64	170.3	165.5	168	161.5	156.1	156.2	163.1	158	158.7	156.5	158.7	154.1
65-74	283.5	279.5	281.9	279.9	275.9	276.9	282.3	273.9	273.6	273.6	269.7	271.7
75+	419.5	408	405.4	404.3	408.5	413.1	423	418.8	419.7	418.9	413	408.3
Male	215.2	209.7	207.9	203.3	200.4	203.3	207	200.4	200.5	199.2	199.7	197.8
Female	206.6	203.7	206.4	202.5	202.1	199.8	206.7	202.9	204.8	204.7	202.2	198.4
White	238.5	231.2	230.2	224	221.9	221.7	226.1	220.2	220.6	220	218.3	214.4
Black	169.9	168.5	170.8	169.7	168	169.7	177.6	172.8	174.9	174.4	174.8	174
Native American	181.1	190.3	157.1	179.6	155.2	184.9	186.8	227.9	241.9	230.7	204.5	193.7
Asian	116.3	121.1	139.9	133.6	135.5	140.1	139.2	128.6	127.3	122.8	127.2	129.8
†Hispanic				196	207.3	198.4	199.4	193.7	194.8	202.4	196.9	189.81
†Non-Hispanic				238.9	242.5	246.5	252.5	249.7	251.5	252.1	250.8	250.24
All	211.1	206.8	207	202.7	200.7	201.7	206.6	201.5	202.5	201.8	200.7	197.8

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.12.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: hemodialysis patients, by primary diagnosis, adjusted

period prevalent patients, 2001 ESRD patients as reference

GLOMERULONEPHRITIS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	16	18.1	18.4	24.1	26.9	32.6	35.4	32	29.4	33.6	40.8
20-29	31.4	30.7	31.8	32.9	35.9	39.7	45.7	46.3	46.7	42.6	43
30-39	44.7	43.4	46.9	47.9	52.7	63.8	67	67.3	67	64.9	62.5
40-49	63	63.9	65.7	69.8	74.1	79	81.5	76.4	80.8	84.2	86.3
50-59	96.5	103.4	104.7	108.6	109.7	112.6	122.9	126.1	129.4	124.6	123.8
60-64	146.4	150.9	159.1	161.4	164.7	166.7	183.1	179	174	166.9	176.3
65-69	208.2	215.5	215.8	221.8	214.8	213.4	227.7	222.3	220.5	210.4	203.4
70-79	287	285.5	294.5	297.3	294.3	288	309.9	307.3	302.6	284.4	289.4
80+	477.4	441.6	449.5	455.6	438.2	417.5	444.3	435.3	431.2	413.4	425.6
0-19	17.5	18.3	18.8	23.6	26.5	32.3	35.8	32.7	29.4	35.3	43.7
20-44	41.5	42.1	44.3	44.7	49.9	59	63.5	62.3	63.1	62.6	61.1
45-64	104.3	109.8	114.6	118.9	120.8	122.4	132.5	132.1	132.8	129.3	132.8
65-74	227.1	228.2	231.8	239.9	235	233.4	252.7	249.9	243.9	233.1	231.7
75+	360.8	367.2	373.1	382.3	375	359.9	380.3	372.8	379.2	353.5	360.9
Male	179.9	179.7	187	189.9	192.8	192.4	204	200.6	195.9	189.4	188.7
Female	152.6	151.3	150.4	156.7	150.5	151.4	164.5	163.5	167.1	159.1	164.7
White	178.3	175.8	175.7	177.7	176.6	175	188.3	188.8	184.9	179.7	186.5
Black	142.2	152	160.8	160.1	161.7	167.1	183.2	178.4	180.3	168.3	162.7
Native American	192.4	92.2	120.1	198.6	180.9	208.1	188	176.5	222.5	241.9	206.9
Asian	143.6	127.1	142.1	193.3	175.6	152.6	131.8	112.4	130.3	121.2	130.7
†Hispanic											
†Non-Hispanic											
All	166.9	166.4	169.7	174.1	172.9	173	185.2	183.3	182.8	175.3	177.6

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	39.4	31.5	29.5	26.1	26.6	24.9	25.7	25.5	26.5	26	33.6	28
20-29	42.6	36.1	38.3	35.2	37.5	35	34.6	34.6	37.3	37.2	40.9	40
30-39	62.8	58.8	59.5	56.7	58.3	53.5	56.1	55	55	53	50.5	51.5
40-49	86.8	83	83.4	82.6	84.6	82.9	80	81.1	83.3	89.2	90.1	85.1
50-59	126.6	122.3	124.4	117.4	120.9	117.8	125.5	118.7	121	125.2	125	121.7
60-64	169.6	165.2	163.2	169.4	168.2	168	168.1	158.9	162.2	164.6	165.6	168.6
65-69	205.1	203.9	208.7	209.3	204.3	203.6	207.8	205.3	210.1	203.3	211.9	197.6
70-79	279.3	264.6	275.2	277.6	269.9	271.1	274.4	271.8	270.7	272.9	269.2	263.4
80+	414.6	401	414.9	407.4	403.7	410.1	433.7	418.9	418.4	419.8	402.9	399.9
0-19	40	32.5	29.8	27.9	27.3	25.4	25.6	25.5	26.4	26.7	33.8	28.9
20-44	62.1	57.4	59.3	56.4	57.6	54.6	54.9	55.7	55.2	58	57.7	56.6
45-64	130.9	126.4	125.4	123.4	126	123.1	125.5	119.3	123.2	126.4	127.1	125.5
65-74	228.5	222	228.4	230.6	230	227.5	228.1	225.8	227.1	228.7	231.7	221.8
75+	352.1	338.3	354.4	350.7	334.7	343.9	358.9	351.9	353.7	352.6	342.5	337.9
Male	186.7	176.9	181.9	178.7	176.4	171.6	176.5	170.8	171.6	172.6	173	169.1
Female	161.2	159.1	161.4	161.7	162.1	165.6	169.2	167.4	168.8	170.6	169.2	165
White	184.6	178.9	181.4	180.8	180.2	180.1	184	182.2	179.7	182.9	182.9	176.7
Black	160.9	154.5	159.1	156.6	153.5	151.9	158.2	149.6	158.7	157.5	154.6	155.3
Native American	156.6	133.7	161	165.9	159.8	181.5	165.8	186.5	148.5	156.7	161.4	149.4
Asian	125.7	113.6	124.4	119.3	126	115	112	105.6	121.1	115.2	117.4	106.4
†Hispanic				96.63	94.04	104.5	103.7	100.9	110.1	104.5	113	102.07
†Non-Hispanic				160.7	162	158.4	162.4	162	160.1	163.8	161.2	155.27
All	174.7	168.6	172.6	171.1	169.9	169.1	172.9	169.2	170.3	171.9	171.4	167.1

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.12.1 (supplement-continued)

Annual mortality rates per 1,000 patient years at risk: hemodialysis patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

OTHER	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	44.9	46.9	44.2	58.8	55.8	60.8	63	59.5	50.1	52.6	70.5
20-29	78.6	71	68	70	67.9	67.7	75	80.6	72.6	69.5	78.7
30-39	101.1	95	98	103.2	99.6	103.4	100.5	105.2	103	97.4	106
40-49	123	121.4	116.7	130.7	128	127.8	131.2	131.6	125.4	120.2	126.7
50-59	163.6	166.9	167.5	176.2	174.3	171.6	176.5	186.6	171.1	160.8	162.1
60-64	225.8	218	222.4	232.3	239.9	237.3	240.1	239.7	221.7	210.7	211.7
65-69	278.2	278.4	277.8	290.1	293.9	276.2	269	281.3	266.2	250.2	255.6
70-79	347.3	348.9	352.2	357.6	361.9	348.4	341	341	329.1	318.9	320.2
80+	508.4	466.9	491	503.9	521	489.7	475.3	483	441.1	441.2	438.9
0-19	44.3	46.7	44.4	59.3	55.8	61	62.5	58.5	49.7	50.8	66.8
20-44	101.3	93.2	93.1	97.7	95	97.2	97.3	101.4	98.4	94.3	103.1
45-64	174.5	175.5	177	187.9	189.6	187.8	192.7	196.9	180.3	170.3	170.9
65-74	295.7	299.5	299	308.4	311.7	297.9	290.5	294.6	279.8	271	274.9
75+	428.4	414.1	424.1	431.3	445.1	419.1	409.2	421.9	400.6	390	389.5
Male	248.1	244.6	243.9	256.8	254.9	252.6	247.9	255.8	237.6	227.1	226.2
Female	204.1	199.4	204.7	210.2	215.9	202.9	205.4	206	198.4	192.7	201.7
White	232.9	229.2	229	235.6	236.2	228.4	229.4	229.2	219.5	212.1	217.3
Black	224.3	225.1	229.4	241.2	247.8	239.1	235.1	251.6	227.7	216.2	219.3
Native Am	241.9	165.4	188.7	163.3	173.6	205.5	220.6	184.8	177	159.7	149.9
Asian	131.1	100.6	124.4	171.4	156.4	148.7	128	123.9	138.7	144.4	137
†Hispanic											
†Non-Hispanic											
All	227.3	223.3	225.4	235.3	237.3	229.9	228.7	233.4	219.8	211.6	215.7

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	69.4	61.6	56.3	53.3	50.3	50.4	52.5	50.8	50.4	49.9	61.1	48.6
20-29	71.8	72.6	67	72.6	65.4	63.8	63	63.5	65	67.1	67.1	67.4
30-39	107.6	111.3	111.7	113.8	104.3	101.3	101.4	95	94.5	90.4	90.7	87.3
40-49	128.8	123.5	125.8	124.6	123.9	119.7	122.9	116.5	121.7	123.8	122.1	122.3
50-59	163.8	165.3	162.3	162.6	160.3	159.8	161.7	163.3	158.8	163.2	166.8	165.4
60-64	213.2	213.6	206.2	214.7	213.6	210.7	218.3	217	222.6	226.1	232.7	226.2
65-69	247.9	249.9	249	250.2	252.9	255.5	261.6	261	264.5	264	274.8	274
70-79	319.2	309.4	309.1	320.4	322.9	324.6	335.3	336.2	343.7	343.1	343.9	350.3
80+	442.8	420.6	431.4	434	448.3	465.2	484	476	478	480.1	482.9	486.3
0-19	68.1	59.9	55.5	51.9	49.7	50	52.2	50.5	50.2	49.4	60.9	48.3
20-44	102.4	104.3	106.2	107.9	99.5	97.3	97.7	92.3	93.6	92.7	93.3	92.3
45-64	172.6	171.2	165.2	167.5	167	164	167.4	166.3	167.4	171.4	173.5	170.8
65-74	271.3	266.5	268.2	272.7	273	275.8	284.7	287.3	292.1	291.4	297.3	297.4
75+	390.9	379	381.9	391.8	402.5	411.8	425.4	417.8	424.5	425.7	430.2	438.9
Male	227.4	225.3	223.5	226.7	222.4	221.8	223.4	221.7	224.8	226.1	230	229.4
Female	199.9	195.7	197	200.6	204.7	206	216.6	213.3	215.9	217.7	219.7	219.7
White	214.3	209.3	208.8	212	215.4	218.2	222.2	219.9	222.6	227	230	229.2
Black	222.9	220.8	221.5	227	219.8	215.4	222.1	221.2	223.6	219.9	223.6	224.9
Native Am	197.3	184.7	172.5	169.7	196.6	181	198.1	203.5	202.2	213.6	208.1	202.1
Asian	135.6	149	140.8	139.2	129	136.1	157.2	151.6	154.8	145.8	143	144.5
†Hispanic				154.8	151.5	143	174.9	162.2	144.8	156	164	142.74
†Non-Hispanic				230.3	232.3	232.6	236.8	239.2	244.5	246.9	249.7	250.92
All	215.3	212	211.2	214.5	214.2	214.7	220.7	218.3	220.8	222.2	225.2	225.1

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

Table H.12.2 (supplement)

Annual deaths per 1,000 patients: hemodialysis patients, by primary diagnosis*period prevalent patients*

ALL	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	34.3	38.3	36.5	47.1	48.1	51.7	54	48.3	43.7	50.2	61.9	
20-29	63.1	61.4	59.7	62.1	61.7	62.9	70.6	73	68.9	66.5	67.8	
30-39	82.7	80.3	85.5	88.8	89.6	95	95.4	93.4	94.4	91.1	91.5	
40-49	103.2	104.6	104.2	108.1	111.1	112	114.1	111.2	110.4	108.5	111.7	
50-59	130.2	140.4	143.9	149.4	146.8	146.7	151.9	149.6	144.9	139	141	
60-64	175.2	176.5	183.1	191.5	191.5	191	193.1	190.4	181.8	177.6	179.8	
65-69	213.6	216.5	220.8	223.9	224.9	216.8	220.5	217.3	212.7	204.1	203.3	
70-79	250.4	247.4	264.4	272.7	266.6	267	268.5	265.2	259.8	251.4	254.7	
80+	324	309.8	340.1	337.3	339	330.6	346	344.8	323	318.8	326.4	
0-19	33.9	37.2	35.9	47.1	49.2	51	54.1	49.2	44.4	51.8	67.2	
20-44	81.2	79.3	83.2	85.7	86.6	90.3	94	93.1	92.7	90.1	91.8	
45-64	138.8	146.1	150.2	157.4	157.4	157.5	160.8	158.2	152.7	148.3	150.2	
65-74	224.3	225.8	232.9	239.7	237.8	233.5	236	232.5	226.4	218.7	220.9	
75+	286.6	283.3	311.1	308.8	304.5	302.4	308.6	306.9	299.8	292.4	294.9	
Male	185.6	186.3	193.7	200.1	198.3	198	201.9	199	191.1	183.6	185.2	
Female	166.5	167.2	176	179.9	177.9	177.7	181	178.3	174.7	171.5	175.4	
White	191.6	192.6	201.1	207.4	203.2	203.2	206.1	202.3	196.9	192.3	196.1	
Black	151.2	152.9	157.4	162.3	166	165	171	172.7	165.1	158.8	159.1	
Native American	133.4	128.7	151.2	159.9	169.3	170.4	160	153.1	161.3	150.8	151.3	
Asian	134.1	136.2	169.3	165.3	160.1	161.3	156.5	142	139.8	129.9	129.2	
†Hispanic												
†Non-Hispanic												
All	176.6	177.2	185.3	190.7	189	188.7	192.3	189.4	183.5	178.1	180.6	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	59	48.5	43.5	39.1	39.5	38.1	38.9	37.1	38.2	37.6	45.2	37.2
20-29	65.1	60.1	57.6	59	57.9	56.2	54.8	51.8	56.3	57.6	59.5	58.1
30-39	88.7	84.7	86.4	86.9	84.5	82.3	84.8	80.7	80.7	78.8	77	74.4
40-49	108.5	104.1	104.5	102	103.2	102.3	104.8	101.7	102.4	102.3	103.3	100.4
50-59	139.5	136.9	136.6	134.2	131	130.3	134.8	131.5	132.4	132.4	132.7	130.9
60-64	177.1	171.6	171.8	169.5	165.5	166.2	171.2	166.9	166.8	164	168	165.4
65-69	201	198	199.3	198.7	196.3	197.5	200.8	197.4	198.8	195.7	196.9	193.3
70-79	254.3	245.4	247	248.1	243.9	245.8	252.4	249.8	250.3	248.9	247.9	245.8
80+	328.1	320.9	326.1	327.8	325.4	329.9	344.6	338	340.7	336.9	335.4	330.7
0-19	61	50.6	44.7	39.9	39.8	38.6	39.7	39	38.9	38.3	46.2	38.6
20-44	89.7	86.2	87.3	87	86	84.5	85.5	82.3	81.4	82.1	82.2	80.3
45-64	147.5	142.9	142.4	139.8	137	136.6	141	137.4	138.3	136.9	138.4	136.1
65-74	220	213.9	215.7	215.2	212.5	213.8	218.4	215.3	216	214.4	214.7	211.7
75+	295.6	288.9	292.7	295.3	290.6	294.4	304.5	300.4	302.7	300.4	299.5	297.2
Male	182.9	177.9	177.8	177.4	173.2	173.3	177.2	173.6	173.9	172	172.8	170.6
Female	175	170.5	171.9	170.4	169.9	170.3	175.9	172.7	173.7	173	172.9	169.7
White	194.6	187.7	187.7	185.9	182.6	183.2	187.5	183.6	183.4	182.1	182.2	178.9
Black	159.3	155.8	158	157.5	155.5	155.2	161.9	159.4	162.1	159.6	160.5	159.4
Native American	156.8	151.7	145.5	154.4	153.3	158.5	161.6	172.9	169.5	171.1	164	156.6
Asian	119.2	126.3	131.4	135	133	135.2	135.8	129.2	127.9	124.5	125.6	125.2
†Hispanic				147.3	155.2	159.3	162.7	155.4	158.7	157.7	159.8	155.6
†Non-Hispanic				185.8	184.7	187.3	194.4	192.9	194.6	193.9	194.7	192.8
All	179.1	174.3	175	174	171.4	171.9	176.5	173.1	173.8	172.3	172.6	170

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.12.2 (supplement-continued)

Annual deaths per 1,000 patients: hemodialysis patients, by primary diagnosis*period prevalent patients*

DIABETES	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	59.1	66.9	62	81	84.6	88.5	91.3	78.9	71.8	83.1	99.7	
20-29	103.8	102.8	97.1	102.9	102.9	103.2	116.1	116.9	110.5	106	105.3	
30-39	130.6	127.1	134.7	141.3	143.6	149.2	150.1	141.4	142.8	137.8	133.6	
40-49	155	158.7	155.8	158.6	165.5	165.1	166	160.4	157.3	154.6	155	
50-59	170.8	193.5	193	201.6	197	198.1	202.9	192.1	183.6	173.5	177.6	
60-64	221.3	226.9	230.6	243.6	237.6	236.3	234.9	226.2	215.5	210.1	215.2	
65-69	256.1	263.8	264.2	262.9	266.3	255.1	257.7	251.4	243.8	233.1	229.2	
70-79	280.5	277.4	296.7	311	297.6	300.3	297	291	283.2	274.6	280.8	
80+	314.8	320	360.4	348.3	349	342.7	370.3	366.2	328.8	328	341.6	
0-19	57.2	63.5	60	81.1	86.6	85.7	90.1	79.9	72.2	85.7	110.2	
20-44	128	126.2	133.2	138.7	139.5	142.4	148.6	143.4	141.9	137.6	136.1	
45-64	182.3	197.7	197.5	207.9	206.3	206.6	207.8	198.8	190.7	184.1	187.7	
65-74	266	271.8	274.1	280.7	277.8	270.7	270.1	263.9	255	245.1	247.5	
75+	296.4	302.9	343.3	333.6	320.5	325.4	333.4	326.3	315	309.2	312.2	
Male	221.7	228	235	241.2	237.6	237.1	241.2	232.7	222.2	212.1	215.8	
Female	201.9	208.6	217.2	224.3	222.7	222	223.4	217.5	209.6	207.5	209.5	
White	238.2	243	254	263.1	256.9	257.1	257.2	247.9	239.8	233.5	237.3	
Black	163.2	171.5	169.8	175.7	180.4	178.5	188.6	187.2	175.9	169.7	171.3	
Native American	147.1	141.9	194.2	174.2	190.2	178.9	178.6	178.6	183.9	177.1	179.5	
Asian	206.3	220.4	241	218.1	206.1	207.3	216.4	192.6	175.4	161	169.1	
†Hispanic												
†Non-Hispanic												
All	212.5	218.9	226.6	233.1	230.6	230.2	233	225.6	216.5	209.9	212.8	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	93.6	75.6	66.1	59.6	61.3	58.8	59.8	54.9	57.9	57.6	67.8	54.3
20-29	103.3	94.2	87.5	90.3	90.6	88.1	84.9	75.2	84.9	87.8	90.2	83.9
30-39	127.7	117.8	120.1	125.5	123.6	120.5	124.5	117	117.5	116	111.6	105.4
40-49	148.5	141.6	141.7	137.5	137.6	135.5	141.4	134.9	134.2	131.7	131.6	127.4
50-59	173.2	166.5	165.6	162.3	156.3	156	161.3	157.4	158.5	153.4	153	150.9
60-64	206.5	197.6	196.4	190.9	183.6	186.2	192.9	187.6	184.2	179.3	182.1	179.7
65-69	227.5	219	219.7	219.4	218.7	218.7	222	216.8	216.8	212.2	212	207.5
70-79	281.7	272.6	269	269.7	260.7	264.7	272.6	267.7	268.2	265.7	263.5	259.1
80+	346.1	337.7	342.9	350.1	343.1	343.2	366.1	356.2	360.3	352	350.2	339.3
0-19	94.6	77.5	67.1	59.9	60.4	58.1	60.2	58.7	58.6	57.6	68.2	56.2
20-44	130.9	123.3	125.2	127.8	126.7	124.2	126.5	120.7	118.1	118.8	117.4	112.9
45-64	181.2	173.3	172.2	167.8	162.3	162.9	169.4	164.4	164.5	159.3	160.1	157.5
65-74	247.5	238.6	236.5	235.7	231.9	233.9	238.7	233.8	233.9	230.9	229.2	224.1
75+	314	307.4	309.9	315.5	304.9	307.6	321.7	314.4	317	312.1	311.2	305.6
Male	212	203.9	202	203.3	196.2	196.3	202.7	197	197.6	193.1	192.3	187.8
Female	208.2	199.9	200	196.9	194.9	196.2	203.5	197.4	198.1	195.2	195	189.8
White	235.7	224.7	222.4	220.8	213.5	214	221	213.2	212.9	208.6	207.7	202.6
Black	168.7	162.7	165.3	164.1	164.5	164.1	172.5	170.3	173.7	170.3	170.4	166.3
Native American	165.6	163	159	168.8	168.1	170.4	172.6	175.9	170.4	174.9	167.8	159.7
Asian	144.3	155.6	157.4	169.7	165.4	169.5	165.4	156	149.6	148	147.3	147.3
†Hispanic				169	178	185.7	184.3	175.8	180.1	175.3	176.5	174.91
†Non-Hispanic				209.4	203.7	208.1	219.4	213.7	215.6	212.1	212.8	208.12
All	210	201.9	201	200.3	195.3	196.1	202.9	197	197.7	193.9	193.2	188.5

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.12.2 (supplement-continued)

Annual deaths per 1,000 patients: hemodialysis patients, by primary diagnosis*period prevalent patients*

HYPERTENSION	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	13.2	15.8	16.7	21.2	21.2	24.4	26.4	25.9	23	27.4	35.8
20-29	27.5	28.9	31.2	32.4	31.3	33.6	37.3	42.6	38.4	39.4	39.7
30-39	40.7	41.9	46.2	47.4	47.6	53.2	54.7	57.3	60.2	56.9	61.3
40-49	59.8	61.6	64.4	65.8	68.3	71.7	74.5	75.8	77.5	76.1	84.6
50-59	95.9	99.8	110.4	113.1	112.3	111.3	118.9	121	121.5	120.4	121
60-64	138.5	140	149	157.5	161.8	165	165.8	171.3	164.7	165.7	162.1
65-69	181.3	185.7	194.1	199.3	196.7	193.1	200.8	197.6	196.9	191.3	192.5
70-79	215.5	222.4	245.5	257.3	247.9	255.1	257.9	258	251.7	244.3	245.6
80+	330.5	306.9	330.9	330.1	331.7	329.6	342.9	342.9	331.1	320.2	321.6
0-19	14.6	16.9	17.3	21.5	22.8	25.9	28.9	28.2	25.5	30.1	41.6
20-44	42.2	43	44.9	44.8	47.5	52.6	55.7	58.6	59.8	58.1	62.1
45-64	104.8	109.5	119.8	125	127.1	128.7	132.7	135.8	133.9	133.7	133.9
65-74	187.8	193.1	207.4	217.2	212.5	215	220	219.1	215.2	208.5	211.7
75+	272.9	270.4	296.3	301	293.3	297	304.1	304.2	296.3	289.9	290.5
Male	148.7	150.5	160.9	169.4	169.9	170.9	175.9	176.2	171.3	166.5	167.9
Female	135.5	136.6	150.2	151.2	146.6	151.2	155.9	157.2	157	154.8	157.8
White	154.7	157.2	169.4	174.8	170.1	173.3	179.6	181	178	175.8	180
Black	126.3	123.4	130.6	134.3	137.9	137.9	143.1	145.3	143.3	138.9	138.1
Native American	74.3	127.3	104.8	151.1	162.4	161	127.2	124.7	138.9	110.9	125
Asian	75.2	76.9	135.4	125	129	138.6	126.1	115.8	116.8	105.9	93.4
†Hispanic											
†Non-Hispanic											
All	142.6	144	155.8	160.9	159.1	161.5	166.5	167.3	164.4	161	163

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	35.2	28.3	26.8	22	21.5	20.6	21.4	22	22.5	21.5	26.4	23.5
20-29	38.2	33.4	35.7	33.3	33	31	30.7	31.7	33.7	32.8	34.8	38.2
30-39	59.9	60.3	63.4	58.2	53.7	51.5	53	52.1	52.5	50.2	50.2	50.1
40-49	81.3	77.9	76.3	73.9	77.9	79.4	79.5	79.3	78.8	78.1	81.9	78.7
50-59	119.4	120.5	122.5	119.9	115.9	115.1	121.5	115.6	118.4	120.5	119.5	118.8
60-64	167.8	159.8	168.6	161.8	156.1	157.3	162.2	158.9	157.9	153.6	159	154.7
65-69	191.1	193.6	196.9	195.9	190.2	192.1	194.1	187.4	191.1	189.7	186.3	185.4
70-79	247.4	238.5	244.2	243.4	243	243.1	248	245.2	243.7	241.8	240	239.6
80+	323.5	324.1	325.8	325.9	325.4	328.7	336.5	334.3	334.2	331.8	329.6	326.8
0-19	42.1	34.1	30.1	24.4	24.2	23.5	24	24.3	24.7	24.1	29.8	25.7
20-44	64.3	62.5	61.9	56.7	57.6	56.3	55.6	53.6	53.7	54.4	56.1	56.2
45-64	133.2	129.2	133.4	129.4	125.1	125.6	130.7	127.1	127.4	125.9	127.9	125
65-74	211.3	208.8	214.2	213	209.7	209.7	214	208.9	208.7	207.3	205.8	206.9
75+	294	289.3	292.5	293	293	295.2	300.9	300.2	300.4	299	296.7	294.8
Male	165.1	161.8	163.6	160.8	158.1	160.2	162.9	159.1	159.3	157.8	159.1	158
Female	160.5	158.7	163.2	161	160.2	158	162.6	160.4	161.4	160.9	159.6	157.7
White	178.4	173.9	176.5	172.7	170.6	170.2	173.1	169.7	169.9	168.8	168.5	166.3
Black	140.2	139.2	142.9	142.6	140.8	142	148.2	145.1	146.5	145.7	146.3	146.1
Native American	149.3	150.5	129.9	148.6	132.5	148	151.4	178.6	187.4	181.2	166.1	156.1
Asian	95.3	99.6	115.5	110.7	112	115	114	107.3	107.3	103.2	107.2	109.5
†Hispanic				151	162.5	156.1	157.2	150.6	154.3	159.9	155.9	151.5
†Non-Hispanic				187.8	188.5	191.1	195.6	194.8	195.5	195.3	195.2	195.74
All	162.9	160.3	163.2	160.8	158.7	159.2	162.6	159.6	160.3	159.2	159.2	157.6

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.12.2 (supplement-continued)

Annual deaths per 1,000 patients: hemodialysis patients, by primary diagnosis*period prevalent patients*

GLOMERULONEPHRITIS	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	12.4	12.6	13	16.5	18.1	22.1	24.5	22.4	21.3	24.2	29.3	
20-29	24.7	23.4	24.6	25.2	27.2	30.1	35.1	35.6	36.4	33.2	33.9	
30-39	33.8	34.3	36.9	38.1	41.9	51.1	54	54.5	54.6	53.1	51.3	
40-49	50.6	51.4	54.1	57.1	60.5	64	66.3	62.3	66.5	69.7	71.6	
50-59	84.7	85.3	87.4	90.4	90.5	92.4	100.3	102.6	105.7	102.4	102	
60-64	117.2	122.7	132.7	132.6	134.4	135.8	148.5	145	140.8	135.5	142.8	
65-69	166.2	168.2	171.4	176.2	170.3	170.2	181.1	176.5	176.3	168.5	163.7	
70-79	208.8	208.8	220.6	222.8	221.5	218.8	237.4	233.7	231.6	220.3	223.6	
80+	299.7	296.6	311.5	314.7	308.9	303.8	319.2	307.9	306.1	298.4	311.2	
0-19	12.8	12.8	13.2	16.2	17.8	21.8	24.7	22.9	21.2	25.3	31.1	
20-44	33.3	33	35.2	35.4	39.4	46.7	50.7	49.9	51	50.7	49.8	
45-64	85.7	89.6	94.9	98.1	99	99.9	107.8	107.3	108.3	106	109	
65-74	175.8	175.3	181.7	187.3	183.5	183.3	199.2	195.5	192.3	184.8	183.9	
75+	252.1	256.2	268.7	273.5	272.9	266.6	280	273.5	279.3	263.6	270.6	
Male	138.3	139.3	148.3	149.9	152	153.5	162.6	158.7	156.1	152.1	152.1	
Female	121.6	121.4	123.5	128.4	124.5	125.6	136.3	135	138.1	132.5	137.2	
White	138.8	137.4	140.2	141.5	140.2	140	150.6	150.1	147.4	144.2	149.8	
Black	113	122.7	132.3	132.1	134	139.4	152.4	147.5	150.7	142.2	138.1	
Native American	161.1	78.2	107	169.2	152.8	166.4	151.4	144.2	171.9	190.4	166.6	
Asian	100.1	83.3	106.1	140	136.4	122.2	105.7	90	105	98.3	108.1	
†Hispanic												
†Non-Hispanic												
All	130.4	130.9	136.5	139.6	139	140.2	150	147.6	147.8	143	145.2	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	28.5	23	21.6	18.9	19.5	18.3	18.6	18.7	19.3	18.8	24.1	20.5
20-29	33.3	28.7	30.8	28.4	29.6	28.1	28.3	28.5	30.8	30.5	33.8	33.2
30-39	51.5	49.1	49.7	47.6	48.4	44.6	47.3	46.7	46.8	44.9	43.1	44.2
40-49	72.4	69.9	70.4	69.5	71.2	70.1	67.9	69.3	71.1	75.8	76.8	72.9
50-59	105.5	101.3	102.8	97.1	100.5	98.3	104.9	99.9	101.6	104.2	105	102.6
60-64	137.6	134	132.4	136.9	136.9	137	137	131.2	134	135.3	136	138.6
65-69	164.5	164	168.3	167.6	162.8	162.3	165.6	165.6	170	163.6	169.2	160
70-79	217.7	206.8	216.9	217.3	211.2	213.6	216.1	216.2	215.5	216.5	215.4	211
80+	306.2	294.8	305.6	302.5	299.7	304.6	318	312.1	313.5	312.7	304	303.6
0-19	28.9	23.7	21.7	20.1	20.1	18.7	18.6	18.6	19.1	19.2	24.2	21
20-44	50.6	47.5	49.3	46.9	47.8	45.6	46.2	47.2	46.9	49	49	48.2
45-64	108	104.4	103.7	102	104	102.1	104.4	100.2	103.3	105.3	106.5	105.4
65-74	181.9	177.2	183.2	183.9	182.3	181	181.7	182.1	183.4	183.4	185.6	178.6
75+	266.6	255.4	269	265.7	256.1	263.3	272.6	269.9	272.2	270.6	266.1	263.7
Male	151.6	144	148.7	146.2	144.1	141.5	145.3	142.3	143.2	143.5	144.2	141.2
Female	134.9	133	135.4	135	135.1	137.8	140.4	140.4	141.9	142.2	142.2	139.7
White	149.3	144.8	147.3	146.3	145.7	146.2	148.9	149.3	147.7	149.2	149.7	145.3
Black	136.7	131.3	135.8	134	131.4	130.7	136	129.9	137.2	135.8	134.4	135.8
Native American	131.9	113.9	134.4	140.2	134.7	148.3	138.9	151	126	133.4	140.6	131.3
Asian	104.8	95.3	105.4	100.9	106.9	98.2	96.3	92.1	104.9	99.9	102.8	93.1
†Hispanic				78.51	77.41	86.42	86.92	84.42	92.01	86.11	94.52	85.02
†Non-Hispanic				130.2	131.3	129	132.2	133.2	131.7	134	132.8	128.48
All	143.7	138.9	142.7	141.2	140.1	139.9	142.8	141.4	142.6	143	143.4	140.4

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.12.2 (supplement-continued)

Annual deaths per 1,000 patients: hemodialysis patients, by primary diagnosis*period prevalent patients*

OTHER	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
0-19	31.4	33	31.7	40.3	37.5	41.3	43.3	41.1	35.7	38.2	50.1	
20-29	62.7	54.4	53.1	53.3	51.4	51.4	57.6	62.1	56.8	55.2	62.2	
30-39	84.8	77.2	81	82.9	78.9	81.6	79.4	82.9	82.1	78.7	85.4	
40-49	100.7	99.1	97.2	106.9	102.9	102.1	104.8	104.6	100.3	96.4	101.1	
50-59	133.7	136.4	139.9	145	141.5	139.3	142.2	148.8	137.7	129.9	130.6	
60-64	183.1	175	182.4	187.8	192.2	189.4	190.1	188.8	176.5	168.4	168.6	
65-69	218.4	212.4	218.7	225.7	228.2	214.3	210.9	218.4	209.2	198.3	201.7	
70-79	266.8	254.4	264.3	266.6	269.5	260.1	257.4	256.6	250.6	243.6	245.2	
80+	355.8	311.9	341.6	346.5	359	340	334	339.6	317	318.1	316.4	
0-19	30.8	32.7	31.7	40.5	37.4	41.4	42.9	40.4	35.4	36.8	47.4	
20-44	81.3	74.4	75.5	77.8	74.9	76.4	76.8	79.8	78.2	75.6	82.2	
45-64	143.1	142.7	146.8	153.4	152.7	150.8	153.7	156	144.5	137	137	
65-74	232.5	225.5	232.5	237.2	239.4	228.7	225.8	227.4	218.4	212.2	215.3	
75+	313.2	288.1	305.1	308.8	318	301.6	296.7	305.1	294.1	288.2	287.9	
Male	196.4	187.8	192.8	199.4	197.4	195.1	193	197.9	186.1	178.7	178.1	
Female	168.5	159.9	168.4	171.7	174.9	165.5	167.2	167.2	163	158.7	165.1	
White	186	177.8	182.4	185.3	184.8	178.8	180	179.2	173.7	168.1	171.8	
Black	185	178	187.6	195.1	199.3	192	189.8	201.2	184.5	177.4	179.3	
Native American	181.4	129.9	159.6	134.6	139.7	166	175.8	148.2	141	132	121.4	
Asian	97.3	80.4	98	129.6	121.8	118.8	104.6	103.9	116.4	116.9	112.3	
†Hispanic												
†Non-Hispanic												
All	183.1	174.6	181.3	186.7	187.4	181.6	181.4	184.2	175.7	169.8	172.7	
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	49.2	43.7	40	38	36.7	36.8	37.7	36.9	35.9	35.7	43.4	35.4
20-29	56	57.2	52.7	57.6	51.5	50.9	50.6	51.5	52.6	54.5	54.8	55.3
30-39	86.3	88.4	88.5	90.1	83.3	82.5	82.9	78.2	77.6	74.3	75.1	72.8
40-49	102.8	99	100.8	99.6	99.3	96.3	99	95	99.1	100.5	99.8	100.1
50-59	131	132.2	130.1	130.6	127.4	127	128.6	130.3	127.3	130.4	133.2	132.3
60-64	168.6	169.9	163.6	169	167.3	165.3	170.9	170	172.9	174.2	179.7	175.2
65-69	195.1	196.5	194.5	194.1	192.8	195.7	199.6	200.2	202.5	200.1	207.4	206.3
70-79	244.6	237.6	235.4	241	241	242.1	249.1	250.8	254.8	254	255	258
80+	319.7	307.1	311.6	311.3	316.2	326.8	336.7	333.5	336.5	336.2	339.3	340.8
0-19	47.9	42.3	39.5	37.1	36.3	36.4	37.5	36.6	35.8	35.3	43.3	35.1
20-44	81.4	82.7	84	85.5	79.6	78.7	79.4	75.8	76.7	76	77.1	76.5
45-64	137.6	137	132.5	133.9	132.7	130.3	132.9	132.6	133.4	136	137.8	136
65-74	212.1	208.2	208.2	209.5	207.5	209.9	215.7	218.1	221	219.2	223.1	222.4
75+	289.1	282.4	281.1	286	290.1	296	303.7	300.9	305	305.2	309.1	313.2
Male	179.1	177.9	175.6	177.2	172.8	172.9	173.9	173.7	176.1	176.2	179.7	178.9
Female	163.1	160	160.1	161.8	163.3	164	171.6	169.7	171.2	172	173.7	173.4
White	169.6	166.1	165	166.3	167.2	169	171.6	170.7	172.7	175	177.5	176.4
Black	181	179.4	178.6	182.1	175.4	173.2	178.4	178.5	180	177.1	180.1	181.5
Native American	160.2	151.8	145.3	139.5	162.4	151.9	163.9	166.9	164.9	169.6	168.4	164.7
Asian	111.1	122	115.4	117.1	109.3	115.7	130.4	128.2	128.8	121.7	120.5	121
†Hispanic				122.3	122	114.9	138.3	127.5	117.7	125.9	132.3	116.87
†Non-Hispanic				177.9	178.2	178.4	181.4	184.3	187.5	188.7	191.1	191.4
All	172.1	169.8	168.4	169.9	168.4	169	173.2	172.2	173.9	174.3	176.9	176.5

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.12.3 (supplement)
Hemodialysis patients: counts of total deaths, by primary diagnosis

period prevalent patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	41	37	25	34	27	36	29	34	37	32	29	39	50
20-29	207	234	217	209	224	239	239	251	303	322	301	309	342
30-39	440	457	540	526	624	684	714	870	859	931	1,043	997	1,073
40-49	730	787	781	868	935	1,071	1,133	1,216	1,340	1,426	1,632	1,767	2,011
50-59	1,464	1,597	1,776	2,069	2,141	2,349	2,386	2,513	2,784	2,944	3,028	3,158	3,516
60-64	1,086	1,152	1,346	1,496	1,777	2,021	2,195	2,295	2,524	2,716	2,744	2,989	3,254
65-69	1,218	1,319	1,446	1,701	2,013	2,271	2,555	2,701	3,185	3,569	3,890	4,117	4,520
70-79	1,398	1,717	2,032	2,415	3,155	3,675	4,066	4,700	5,330	6,082	6,830	7,589	8,910
80+	254	351	436	510	794	951	1,195	1,401	1,800	2,151	2,405	2,942	3,501
0-19	41	37	25	34	27	36	29	34	37	32	29	39	50
20-44	962	1,035	1,092	1,084	1,263	1,356	1,425	1,664	1,748	1,881	2,073	2,111	2,319
45-64	2,965	3,192	3,568	4,084	4,438	5,008	5,242	5,481	6,062	6,458	6,675	7,109	7,877
65-74	2,071	2,400	2,685	3,160	3,850	4,404	4,866	5,378	6,166	6,898	7,574	8,266	9,490
75+	799	987	1,229	1,466	2,112	2,493	2,950	3,424	4,149	4,904	5,551	6,382	7,441
Male	3,830	4,342	4,807	5,461	6,359	7,305	7,909	8,702	9,744	10,775	11,512	12,392	14,033
Female	3,008	3,309	3,792	4,367	5,331	5,992	6,603	7,279	8,418	9,398	10,390	11,515	13,144
White	4,954	5,587	6,206	6,961	8,262	9,227	9,858	10,900	12,316	13,453	14,724	16,133	18,372
Black	1,862	2,037	2,310	2,772	3,253	3,841	4,346	4,722	5,452	6,269	6,577	7,153	8,074
Native American	15	20	50	49	83	95	126	140	159	191	236	237	266
Asian	*	*	33	46	92	134	182	219	235	260	365	384	465
†Hispanic													
†Non-Hispanic													
All	6,838	7,651	8,599	9,828	11,690	13,297	14,512	15,981	18,162	20,173	21,902	23,907	27,177
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	39	31	34	32	31	32	35	33	32	34	50	28	
20-29	307	289	289	314	293	282	295	299	336	330	339	330	
30-39	1,144	1,159	1,226	1,273	1,197	1,182	1,300	1,243	1,292	1,282	1,253	1,230	
40-49	2,074	2,178	2,401	2,521	2,818	2,872	3,186	3,264	3,501	3,613	3,750	3,730	
50-59	3,769	4,138	4,379	4,574	4,925	5,411	6,180	6,466	7,079	7,562	7,944	8,156	
60-64	3,335	3,461	3,673	3,828	4,020	4,372	4,826	4,949	5,189	5,311	5,882	5,970	
65-69	4,919	5,257	5,532	5,873	6,258	6,659	7,040	7,255	7,594	7,727	7,964	8,035	
70-79	10,009	10,519	11,842	13,083	14,165	15,706	17,259	18,021	18,722	19,354	19,661	19,884	
80+	4,102	4,650	5,280	6,009	6,838	7,812	9,109	9,802	10,870	11,974	12,825	13,454	
0-19	39	31	34	32	31	32	35	33	32	34	50	28	
20-44	2,388	2,408	2,574	2,632	2,632	2,670	2,872	2,841	2,901	3,043	3,035	2,983	
45-64	8,241	8,817	9,394	9,878	10,621	11,449	12,915	13,380	14,496	15,055	16,133	16,433	
65-74	10,438	11,046	12,038	12,852	13,671	14,744	15,765	16,203	16,785	17,245	17,532	17,614	
75+	8,592	9,380	10,616	12,113	13,590	15,433	17,643	18,875	20,401	21,810	22,918	23,759	
Male	15,258	16,364	17,798	19,367	20,770	22,846	25,416	26,592	28,400	29,912	31,549	32,488	
Female	14,440	15,318	16,858	18,140	19,775	21,482	23,814	24,740	26,215	27,275	28,119	28,329	
White	19,837	20,821	22,723	24,582	26,587	29,219	32,226	33,794	35,880	37,907	39,393	39,977	
Black	9,047	9,824	10,760	11,534	12,436	13,421	15,121	15,532	16,615	16,977	17,860	18,322	
Native American	312	341	361	443	457	495	562	656	621	691	676	667	
Asian	502	696	812	948	1,065	1,193	1,321	1,350	1,499	1,612	1,739	1,851	
†Hispanic				3,002	3,630	4,150	4,694	5,058	11,154	5,936	6,396	6,577	
†Non-Hispanic				34,667	37,189	40,528	44,989	46,762	99,036	51,712	53,769	54,727	
All	29,698	31,682	34,656	37,507	40,545	44,328	49,230	51,332	54,615	57,187	59,668	60,817	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.12.3 (supplement)

Hemodialysis patients: counts of total deaths, by primary diagnosis*period prevalent patients*

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	43	44	50	67	57	74	73	77	102	101	94	100	97
30-39	102	126	184	184	246	275	297	325	335	339	409	391	382
40-49	120	163	189	258	288	325	419	458	509	607	695	761	846
50-59	211	246	376	569	612	799	865	1,016	1,140	1,211	1,352	1,487	1,742
60-64	147	185	258	350	478	638	697	825	954	1,084	1,204	1,394	1,622
65-69	122	180	241	351	438	564	737	851	1,058	1,272	1,495	1,684	1,932
70-79	76	122	247	310	474	653	783	1,006	1,172	1,451	1,862	2,220	2,825
80+	*	16	13	38	68	67	106	145	229	260	292	444	567
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	201	251	313	363	448	500	545	605	674	708	792	817	839
45-64	422	513	744	1,065	1,233	1,611	1,806	2,096	2,366	2,634	2,962	3,316	3,850
65-74	172	266	415	567	748	1,003	1,239	1,494	1,804	2,196	2,651	3,055	3,740
75+	31	52	86	132	232	281	387	508	655	787	998	1,293	1,584
Male	455	568	770	1,041	1,276	1,610	1,877	2,212	2,605	2,894	3,374	3,733	4,466
Female	371	514	789	1,087	1,385	1,786	2,107	2,493	2,897	3,433	4,030	4,754	5,553
White	616	790	1,141	1,495	1,890	2,367	2,656	3,171	3,630	4,147	4,960	5,670	6,634
Black	207	285	378	580	680	928	1,165	1,353	1,644	1,919	2,126	2,466	2,951
Native American	*	*	28	32	55	54	89	86	110	143	167	177	201
Asian	*	*	12	21	36	47	74	95	118	118	151	174	233
†Hispanic													
†Non-Hispanic													
All	826	1,082	1,559	2,128	2,661	3,396	3,984	4,705	5,502	6,327	7,404	8,487	10,019
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	105	87	71	87	87	77	74	56	91	84	78	65	
30-39	405	388	443	494	461	454	508	478	497	503	461	453	
40-49	865	927	1,024	1,081	1,227	1,270	1,442	1,421	1,501	1,561	1,614	1,603	
50-59	1,890	2,075	2,305	2,479	2,681	3,049	3,522	3,727	4,081	4,135	4,406	4,575	
60-64	1,633	1,746	1,945	2,081	2,228	2,560	2,891	2,964	3,080	3,213	3,544	3,584	
65-69	2,259	2,389	2,684	3,006	3,355	3,623	3,957	4,159	4,377	4,488	4,638	4,683	
70-79	3,355	3,756	4,311	5,125	5,716	6,718	7,680	8,053	8,760	9,156	9,415	9,579	
80+	707	830	1,042	1,311	1,525	1,906	2,455	2,585	3,080	3,442	3,821	4,004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	860	852	930	1,000	1,016	1,018	1,103	1,079	1,081	1,160	1,120	1,078	
45-64	4,038	4,371	4,858	5,222	5,668	6,392	7,334	7,567	8,169	8,336	8,983	9,202	
65-74	4,358	4,723	5,322	6,040	6,688	7,465	8,238	8,577	9,094	9,392	9,613	9,620	
75+	1,963	2,252	2,715	3,402	3,908	4,782	5,854	6,220	7,123	7,694	8,261	8,646	
Male	4,974	5,435	6,143	7,190	7,753	9,006	10,502	10,988	12,072	12,748	13,583	14,125	
Female	6,248	6,767	7,684	8,474	9,529	10,651	12,029	12,456	13,398	13,835	14,395	14,422	
White	7,542	7,968	8,987	10,186	11,006	12,697	14,582	15,053	16,496	17,324	18,241	18,629	
Black	3,258	3,643	4,173	4,628	5,354	5,939	6,814	7,173	7,715	7,834	8,291	8,404	
Native American	214	254	278	339	355	381	436	494	475	534	514	512	
Asian	208	337	389	511	567	640	699	724	784	891	932	1,002	
†Hispanic				1,856	2,335	2,772	3,093	3,357	7,520	3,953	4,283	4,514	
†Non-Hispanic				13,913	15,133	17,128	19,734	20,419	44,072	22,934	24,007	24,327	
All	11,222	12,202	13,827	15,664	17,282	19,657	22,531	23,444	25,470	26,583	27,978	28,547	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.12.3 (supplement)

Hemodialysis patients: counts of total deaths, by primary diagnosis*period prevalent patients*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	14	11	18	20	22	17	25	21	37	23	37	29
30-39	36	33	51	50	64	90	80	118	124	151	173	161	191
40-49	93	98	132	134	154	180	214	232	268	273	328	337	439
50-59	203	233	282	364	422	451	491	508	601	627	696	730	774
60-64	148	179	235	304	351	449	524	544	594	700	699	776	771
65-69	171	242	301	401	519	585	674	753	937	1,012	1,163	1,261	1,345
70-79	211	338	475	678	995	1,237	1,326	1,767	2,023	2,358	2,634	2,984	3,437
80+	42	66	144	167	267	365	471	607	828	1,000	1,192	1,433	1,754
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	72	90	120	118	143	168	182	236	254	303	337	344	426
45-64	415	467	591	752	868	1,024	1,144	1,191	1,354	1,485	1,582	1,697	1,778
65-74	302	454	592	785	1,062	1,266	1,385	1,693	1,991	2,226	2,484	2,737	3,098
75+	122	192	328	461	719	921	1,086	1,434	1,797	2,144	2,505	2,941	3,438
Male	531	693	971	1,253	1,605	2,004	2,257	2,623	3,079	3,493	3,906	4,310	4,923
Female	380	511	660	864	1,189	1,376	1,541	1,934	2,319	2,666	3,004	3,414	3,823
White	483	706	990	1,280	1,702	2,042	2,204	2,752	3,274	3,683	4,159	4,756	5,464
Black	426	498	633	823	1,064	1,299	1,545	1,737	2,061	2,400	2,641	2,863	3,165
Native American	*	*	*	*	*	13	12	13	*	15	21	14	26
Asian	*	*	*	*	23	26	37	55	53	61	89	91	91
†Hispanic													
†Non-Hispanic													
All	911	1,204	1,631	2,117	2,794	3,380	3,798	4,557	5,398	6,159	6,910	7,724	8,746
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	31	25	36	33	31	28	25	34	34	33	33	48	
30-39	199	220	215	185	172	177	199	199	211	224	221	218	
40-49	432	467	526	531	599	631	679	722	741	736	837	822	
50-59	820	990	975	978	1,017	1,099	1,223	1,190	1,383	1,569	1,585	1,635	
60-64	878	877	957	866	906	939	979	1,001	1,067	1,013	1,182	1,178	
65-69	1,443	1,610	1,585	1,580	1,574	1,686	1,707	1,636	1,728	1,762	1,720	1,822	
70-79	3,935	4,053	4,530	4,680	4,995	5,274	5,622	5,810	5,796	5,981	6,008	6,082	
80+	2,133	2,457	2,654	2,940	3,319	3,654	4,169	4,593	4,945	5,412	5,773	6,112	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	440	450	458	419	438	461	485	490	500	544	556	564	
45-64	1,920	2,129	2,251	2,174	2,287	2,413	2,620	2,656	2,936	3,031	3,302	3,337	
65-74	3,416	3,655	3,865	3,862	3,931	4,111	4,285	4,191	4,235	4,375	4,328	4,508	
75+	4,095	4,465	4,904	5,338	5,957	6,503	7,213	7,848	8,234	8,780	9,173	9,508	
Male	5,390	5,947	6,339	6,438	6,961	7,473	8,058	8,317	8,741	9,205	9,695	10,072	
Female	4,486	4,758	5,141	5,355	5,653	6,015	6,545	6,872	7,165	7,525	7,664	7,848	
White	6,001	6,483	6,928	7,077	7,706	8,184	8,770	9,321	9,698	10,278	10,611	10,908	
Black	3,700	4,011	4,300	4,454	4,615	4,959	5,462	5,465	5,767	5,984	6,227	6,443	
Native American	37	35	27	41	30	44	47	67	67	59	56	63	
Asian	138	176	225	221	263	301	324	336	374	409	465	506	
†Hispanic				577	677	710	792	869	1,924	1,076	1,116	1,144	
†Non-Hispanic				11,241	11,979	12,834	13,884	14,390	30,040	15,729	16,328	16,870	
All	9,876	10,705	11,480	11,793	12,614	13,488	14,603	15,189	15,906	16,730	17,359	17,920	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Table H.12.3 (supplement)

Hemodialysis patients: counts of total deaths, by primary diagnosis*period prevalent patients*

GLOMERULONEPH	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	11	*	*	*	*	*	*	12	*	*	13	14
20-29	34	39	46	42	47	49	56	59	69	62	80	54	65
30-39	58	71	72	84	93	103	137	208	192	192	204	198	184
40-49	83	90	102	102	140	156	164	187	189	187	251	296	294
50-59	153	167	220	226	230	254	264	269	313	332	347	335	347
60-64	118	127	133	198	236	207	241	252	302	275	269	271	304
65-69	112	141	183	199	236	270	278	324	387	369	400	406	382
70-79	128	184	233	276	371	425	501	541	685	720	768	793	937
80+	17	28	53	67	85	128	148	184	215	249	306	350	407
0-19	*	11	*	*	*	*	*	*	12	*	*	13	14
20-44	136	150	167	168	208	209	263	360	354	343	408	412	385
45-64	310	344	406	484	538	560	599	615	711	705	743	742	809
65-74	187	256	318	359	446	506	560	629	776	765	805	837	890
75+	70	97	151	183	246	317	367	420	511	573	669	712	836
Male	442	528	658	754	914	994	1,144	1,272	1,430	1,460	1,567	1,653	1,738
Female	267	330	394	448	530	607	652	759	934	936	1,067	1,063	1,196
White	574	718	852	945	1,118	1,204	1,343	1,471	1,741	1,782	1,880	1,983	2,200
Black	132	137	187	249	306	352	407	511	579	564	668	656	647
Native American	*	*	*	*	*	16	*	17	15	14	24	23	17
Asian	*	*	*	*	13	29	37	32	29	36	62	54	70
†Hispanic													
†Non-Hispanic													
All	709	858	1,052	1,202	1,444	1,601	1,796	2,031	2,364	2,396	2,634	2,716	2,934
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	12	*	
20-29	72	47	72	57	67	62	67	64	76	65	87	69	
30-39	207	187	198	189	207	173	202	199	188	187	174	194	
40-49	316	342	346	368	415	400	391	462	474	499	508	463	
50-59	407	383	414	390	471	459	559	548	611	689	678	677	
60-64	257	279	275	308	305	308	306	301	336	348	348	399	
65-69	435	432	437	445	421	437	458	469	467	420	468	395	
70-79	940	955	1,114	1,137	1,144	1,250	1,297	1,353	1,262	1,295	1,251	1,131	
80+	415	479	574	597	661	731	792	808	823	895	871	899	
0-19	*	*	*	*	*	*	*	*	*	*	12	*	
20-44	438	398	439	413	454	414	439	469	443	477	471	453	
45-64	821	840	866	899	1,011	988	1,086	1,105	1,242	1,311	1,324	1,349	
65-74	936	925	1,005	1,023	1,027	1,049	1,055	1,117	1,060	1,064	1,048	928	
75+	854	941	1,120	1,156	1,199	1,369	1,492	1,513	1,492	1,546	1,542	1,497	
Male	1,858	1,851	2,090	2,104	2,226	2,254	2,452	2,506	2,528	2,644	2,649	2,541	
Female	1,200	1,260	1,349	1,395	1,472	1,572	1,626	1,703	1,718	1,761	1,748	1,694	
White	2,243	2,277	2,501	2,573	2,679	2,812	2,964	3,093	2,965	3,165	3,113	2,913	
Black	723	741	805	794	866	859	958	941	1,082	1,056	1,079	1,147	
Native American	18	20	29	30	27	37	33	44	31	41	48	35	
Asian	74	73	104	102	126	118	123	131	168	143	157	140	
†Hispanic				202	220	266	277	286	656	315	352	328	
†Non-Hispanic				3,308	3,493	3,574	3,826	3,946	7,892	4,121	4,085	3,937	
All	3,058	3,111	3,439	3,499	3,698	3,826	4,078	4,209	4,246	4,405	4,397	4,235	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.12.3 (supplement)

Hemodialysis patients: counts of total deaths, by primary diagnosis*period prevalent patients*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	35	25	14	24	19	25	14	22	20	19	17	15	24
20-29	123	137	110	82	100	94	93	90	111	122	104	118	151
30-39	244	227	233	208	221	216	200	219	208	249	257	247	316
40-49	434	436	358	374	353	410	336	339	374	359	358	373	432
50-59	897	951	898	910	877	845	766	720	730	774	633	606	653
60-64	673	661	720	644	712	727	733	674	674	657	572	548	557
65-69	813	756	721	750	820	852	866	773	803	916	832	766	861
70-79	983	1,073	1,077	1,151	1,315	1,360	1,456	1,386	1,450	1,553	1,566	1,592	1,711
80+	190	241	226	238	374	391	470	465	528	642	615	715	773
0-19	35	25	14	24	19	25	14	22	20	19	17	15	24
20-44	553	544	492	435	464	479	435	463	466	527	536	538	669
45-64	1,818	1,868	1,827	1,783	1,799	1,813	1,693	1,579	1,631	1,634	1,388	1,354	1,440
65-74	1,410	1,424	1,360	1,449	1,594	1,629	1,682	1,562	1,595	1,711	1,634	1,637	1,762
75+	576	646	664	690	915	974	1,110	1,062	1,186	1,400	1,379	1,436	1,583
Male	2,402	2,553	2,408	2,413	2,564	2,697	2,631	2,595	2,630	2,928	2,665	2,696	2,906
Female	1,990	1,954	1,949	1,968	2,227	2,223	2,303	2,093	2,268	2,363	2,289	2,284	2,572
White	3,281	3,373	3,223	3,241	3,552	3,614	3,655	3,506	3,671	3,841	3,725	3,724	4,074
Black	1,097	1,117	1,112	1,120	1,203	1,262	1,229	1,121	1,168	1,386	1,142	1,168	1,311
Native American	*	13	11	*	16	12	16	24	24	19	24	23	22
Asian	*	*	11	11	20	32	34	37	35	45	63	65	71
†Hispanic													
†Non-Hispanic													
All	4,392	4,507	4,357	4,381	4,791	4,920	4,934	4,688	4,898	5,291	4,954	4,980	5,478
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	22	14	21	24	21	26	27	23	19	26	37	16	
20-29	99	130	110	137	108	115	129	145	135	148	141	148	
30-39	333	364	370	405	357	378	391	367	396	368	397	365	
40-49	461	442	505	541	577	571	674	659	785	817	791	842	
50-59	652	690	685	727	756	804	876	1,001	1,004	1,169	1,275	1,269	
60-64	567	559	496	573	581	565	650	683	706	737	808	809	
65-69	782	826	826	842	908	913	918	991	1,022	1,057	1,138	1,135	
70-79	1,779	1,755	1,887	2,141	2,310	2,464	2,660	2,805	2,904	2,922	2,987	3,092	
80+	847	884	1,010	1,161	1,333	1,521	1,693	1,816	2,022	2,225	2,360	2,439	
0-19	22	14	21	24	21	26	27	23	19	26	37	16	
20-44	650	708	747	800	724	777	845	803	877	862	888	888	
45-64	1,462	1,477	1,419	1,583	1,655	1,656	1,875	2,052	2,149	2,377	2,524	2,545	
65-74	1,728	1,743	1,846	1,927	2,025	2,119	2,187	2,318	2,396	2,414	2,543	2,558	
75+	1,680	1,722	1,877	2,217	2,526	2,779	3,084	3,294	3,552	3,790	3,942	4,108	
Male	3,036	3,131	3,226	3,635	3,830	4,113	4,404	4,781	5,059	5,315	5,622	5,750	
Female	2,506	2,533	2,684	2,916	3,121	3,244	3,614	3,709	3,934	4,154	4,312	4,365	
White	4,051	4,093	4,307	4,746	5,196	5,526	5,910	6,327	6,721	7,140	7,428	7,527	
Black	1,366	1,429	1,482	1,658	1,601	1,664	1,887	1,953	2,051	2,103	2,263	2,328	
Native American	43	32	27	33	45	33	46	51	48	57	58	57	
Asian	82	110	94	114	109	134	175	159	173	169	185	203	
†Hispanic				367	398	402	532	546	1,054	592	645	591	
†Non-Hispanic				6,205	6,584	6,992	7,545	8,007	17,032	8,928	9,349	9,593	
All	5,542	5,664	5,910	6,551	6,951	7,357	8,018	8,490	8,993	9,469	9,934	10,115	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	924	938	939	879	794	719	678	665	703	740	749	745	711
20-29	3262	3352	3493	3567	3702	3738	3699	3713	3816	4021	4302	4440	4572
30-39	4936	5380	5820	6209	6593	6902	7154	7519	8029	8594	9,209	9674	10,370
40-49	6290	6752	7222	7610	8521	8,762	8,944	9,397	10,162	11,230	12,498	13,808	15,358
50-59	9,483	10,363	11,309	12,227	12,964	13,406	13,744	14,275	14,914	15,917	17,057	18,493	20,241
60-64	4,770	5,361	6,193	6,943	7,978	8,663	9,194	9,640	10,387	11,060	11,922	12,892	13,964
65-69	4,350	4,767	5,312	6,038	7,312	8,018	8,777	9,910	11,247	12,450	13,904	15,476	16,961
70-79	4,159	4,903	5,819	6,994	8,822	10,100	11,400	13,093	14,799	16,738	19,191	22,181	25,603
80+	505	645	831	1118	1585	1875	2,356	2,904	3,537	4,206	5,128	6,263	7,387
0-19	924	938	939	879	794	719	678	665	703	740	749	745	711
20-44	11145	11,879	12,593	13,274	14,264	14,666	14,983	15,642	16,570	17,867	19,447	20,845	22,263
45-64	17,597	19,328	21,444	23,281	25,494	26,804	27,752	28,903	30,738	32,955	35,541	38,462	42,242
65-74	7,151	8,040	9,107	10,572	12,897	14,269	15,708	17,788	20,051	22,314	25,170	28,555	32,042
75+	1863	2275	2,855	3,578	4,822	5,725	6,824	8,120	9,532	11,079	13,053	15,366	17,909
Male	21,044	23,035	25,192	27,568	30,862	32,807	34,592	36,967	40,213	43,845	48,604	53,871	59,570
Female	17,634	19,425	21,747	24,017	27,408	29,375	31,353	34,150	37,381	41,110	45,357	50,102	55,597
White	26,306	28,370	30,798	33,232	36,748	38,402	40,160	42,738	46,034	49,734	54,449	59,593	65,305
Black	11,999	13,607	15,474	17,462	20,354	22,370	24,065	26,387	29,210	32,412	36,241	40,607	45,422
Native American	158	214	278	361	463	522	611	697	804	956	1105	1236	1427
Asian	216	269	389	529	705	889	1110	1295	1547	1852	2165	2537	3013
†Hispanic													
†Non-Hispanic													
All	38,679	42,460	46,938	51,585	58,270	62,182	65,945	71,117	77,594	84,955	93,961	103,973	115,167
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	738	743	749	792	793	805	844	811	776	818	841	843	
20-29	4730	4848	4954	5109	5261	5435	5676	5791	5790	5757	5711	5652	
30-39	11,007	11,457	12,003	12,531	13,045	13,457	13,824	14,350	14,704	14,979	15,173	15,484	
40-49	16,564	18,024	19,389	21,172	22,958	24,508	26,237	27,812	28,857	30,026	30,998	31,827	
50-59	21,973	23,874	25,848	27,581	29,965	32,814	36,080	39,140	42,145	45,197	47,706	50,123	
60-64	14,711	15,733	16,600	17,670	18,876	20,103	21,509	22,866	24,048	25,302	26,685	28,104	
65-69	18,510	19,909	21,252	22,431	23,851	25,254	26,492	27,760	28,728	29,929	30,742	31,627	
70-79	28,619	31,758	35,288	38,590	42,397	46,431	49,678	52,605	54,758	56,725	58,595	59,449	
80+	8,722	10,034	11,359	12,856	14,395	16,188	18,107	20,062	22,248	24,452	26,670	28,593	
0-19	738	743	749	792	793	805	844	811	776	818	841	843	
20-44	23,565	24,614	25,660	27,003	28,412	29,732	31,060	32,247	32,903	33,616	33,914	34,381	
45-64	45,420	49,321	53,133	57,059	61,693	66,585	72,266	77,711	82,641	87,644	92,359	96,809	
65-74	35,390	38,658	41,966	44,743	47,836	51,204	53,745	56,158	58,088	60,093	61,568	62,844	
75+	20,461	23,042	25,933	29,133	32,807	36,668	40,531	44,268	47,646	51,013	54,439	56,825	
Male	65,087	71,041	76,794	82,805	90,144	97,871	105,473	112,896	119,178	125,908	131,864	136,928	
Female	60,488	65,337	70,648	75,925	81,398	87,122	92,974	98,299	102,876	107,276	111,257	114,773	
White	70,359	75,866	81,783	87,520	94,704	102,238	109,592	117,048	123,818	130,072	135,443	140,165	
Black	50,106	54,669	59,140	63,932	68,859	73,962	79,086	83,493	86,835	90,814	94,586	97,893	
Native American	1632	1822	2000	2222	2409	2612	2910	3090	3236	3409	3531	3671	
Asian	3478	4020	4519	5057	5569	6,181	6,859	7,565	8,165	8,888	9,561	9,972	
†Hispanic				15,594	18,145	20,272	22,501	25,306	55,627	29,766	31,723	33,775	
†Non-Hispanic				143,794	154,434	166,000	177,395	187,456	391,967	205,371	213,645	220,457	
All	125,574	136,378	147,442	158,731	171,542	184,993	198,447	211,196	222,053	233,184	243,121	251,701	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	11	14	20	15	13
20-29	185	221	286	330	355	373	405	411	452	498	520	580	588
30-39	512	618	781	917	1037	1159	1247	1328	1437	1643	1841	1927	2104
40-49	536	647	831	1038	1298	1475	1656	1933	2262	2668	3134	3586	4115
50-59	813	1106	1546	1997	2415	2920	3327	3,749	4,242	4,898	5,727	6,712	7,763
60-64	452	580	820	1144	1543	1898	2236	2588	3102	3,612	4,268	5,022	5,693
65-69	336	456	680	892	1237	1572	1926	2476	3,018	3,702	4,419	5,295	6,381
70-79	203	328	519	739	1073	1383	1807	2,293	2,789	3,487	4,520	5,729	7,100
80+	14	21	33	65	95	142	198	285	362	433	624	861	1079
0-19	*	*	*	*	*	*	*	*	11	14	20	15	13
20-44	949	1136	1436	1716	1989	2202	2402	2576	2878	3269	3695	4074	4421
45-64	1549	2036	2827	3,711	4,659	5,623	6,469	7,434	8,616	10,050	11,796	13,752	15,842
65-74	485	690	1053	1431	2004	2,536	3,125	4,041	4,874	6,009	7,413	9,080	11,063
75+	69	115	178	265	401	561	806	1013	1295	1613	2150	2,804	3,497
Male	1565	2009	2648	3,354	4,161	5,003	5,850	6,836	7,938	9,274	11,107	13,119	15,303
Female	1493	1979	2856	3,777	4,900	5,928	6,961	8,238	9,736	11,681	13,967	16,607	19,533
White	2029	2570	3,466	4,412	5,439	6,383	7,331	8,539	9,953	11,788	14,158	16,641	19,371
Black	985	1338	1887	2490	3294	4132	4,908	5,835	6,851	8,089	9,587	11,494	13,565
Native American	39	70	116	160	213	256	325	387	473	594	712	807	937
Asian	*	*	35	69	115	160	246	313	398	483	617	783	963
†Hispanic													
†Non-Hispanic													
All	3058	3,987	5,504	7,131	9,061	10,930	12,811	15,074	17,675	20,955	25,074	29,725	34,836

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	14	13	11	*	*	*	*	*	*	*	*	*
20-29	599	564	550	563	549	536	558	570	603	597	563	557
30-39	2293	2454	2621	2700	2785	2887	2953	3071	3206	3248	3238	3380
40-49	4546	5099	5,560	6,200	6,893	7,411	7,989	8,502	8,946	9,425	9,862	10,290
50-59	8,783	9,925	11,098	12,233	13,837	15,531	17,265	18,928	20,453	21,944	23,197	24,382
60-64	6,309	7,046	7,769	8,664	9,673	10,643	11,756	12,648	13,447	14,366	15,227	15,957
65-69	7,435	8,327	9,379	10,446	11,600	12,778	13,775	14,808	15,574	16,487	17,124	17,778
70-79	8,461	10,011	11,799	13,762	16,049	18,408	20,362	22,195	24,006	25,494	26,772	27,805
80+	1379	1706	2,019	2,454	3,021	3,693	4,284	4,959	5,799	6,652	7,577	8,345
0-19	14	13	11	*	*	*	*	*	*	*	*	*
20-44	4738	5043	5328	5,603	5,931	6,255	6,559	6,830	7,123	7,350	7,424	7,684
45-64	17,792	20,045	22,271	24,756	27,806	30,753	33,962	36,889	39,533	42,229	44,663	46,882
65-74	12,991	14,923	17,091	19,269	21,625	24,067	26,023	27,943	29,618	31,187	32,435	33,588
75+	4,285	5,121	6,107	7,393	9,044	10,812	12,398	14,018	15,761	17,447	19,038	20,340
Male	17,504	20,056	22,650	25,646	29,298	33,234	36,985	40,685	44,196	47,823	51,108	54,250
Female	22,316	25,088	28,157	31,384	35,120	38,661	41,963	45,003	47,848	50,398	52,459	54,252
White	22,025	24,824	28,050	31,292	35,511	39,887	43,854	48,074	52,271	56,095	59,303	62,354
Black	15,558	17,668	19,704	22,234	25,001	27,604	30,138	32,098	33,778	35,663	37,410	38,912
Native American	1083	1249	1382	1569	1703	1865	2082	2246	2370	2489	2563	2672
Asian	1153	1405	1670	1936	2203	2540	2874	3269	3624	3974	4291	4,564
†Hispanic				8,188	9,913	11,338	12,814	14,622	32,513	17,640	19,008	20,394
†Non-Hispanic				49,217	55,121	61,326	66,995	71,988	153,554	81,654	85,750	89,454
All	39,820	45,145	50,807	57,030	64,418	71,895	78,948	85,688	92,043	98,221	103,566	108,503

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	45	41	40	42	43	40	26	30	33	45	61	68	64
20-29	320	345	376	392	418	432	441	470	500	545	608	681	735
30-39	814	920	1049	1179	1286	1406	1502	1637	1803	2010	2184	2373	2591
40-49	1238	1446	1678	1892	2163	2347	2438	2547	2784	3138	3580	4036	4578
50-59	1589	1911	2352	2815	3098	3361	3580	3803	4141	4502	4902	5209	5677
60-64	811	982	1303	1605	1962	2246	2520	2712	2935	3141	3406	3698	4081
65-69	740	903	1209	1593	2046	2358	2657	3031	3532	3,937	4,515	5,058	5,443
70-79	731	1028	1511	2096	2755	3,354	3,984	4,820	5,592	6,472	7,537	8,760	10,136
80+	81	140	242	362	561	692	942	1223	1558	1,907	2,409	3,038	3,679
0-19	45	41	40	42	43	40	26	30	33	45	61	68	64
20-44	1715	1953	2185	2446	2674	2875	3016	3232	3546	3982	4481	4995	5510
45-64	3056	3651	4573	5436	6253	6,917	7,464	7,937	8,617	9,353	10,199	11,001	12,152
65-74	1247	1600	2207	2922	3,738	4,365	4,972	5,791	6,680	7,542	8,657	9,908	11,027
75+	304	470	754	1129	1625	2039	2,610	3,282	4,002	4,774	5,804	6,948	8,232
Male	3705	4505	5667	6,887	8,174	9,219	10,152	11,294	12,728	14,300	16,347	18,553	20,813
Female	2664	3210	4093	5089	6,157	7,017	7,936	8,977	10,150	11,396	12,854	14,367	16,172
White	2702	3307	4324	5,350	6,311	7,075	7,897	8,885	10,049	11,297	12,957	14,728	16,561
Black	3632	4357	5349	6503	7,871	8,959	9,927	11,072	12,439	13,928	15,665	17,473	19,549
Native American	14	21	29	31	41	50	56	61	80	86	104	120	155
Asian	20	29	57	92	109	153	208	254	310	385	475	598	721
†Hispanic													
†Non-Hispanic													
All	6369	7,715	9,760	11,976	14,331	16,236	18,088	20,272	22,878	25,696	29,202	32,920	36,985

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	61	56	48	40	40	47	53	44	36	28	36	51
20-29	793	865	887	902	950	1001	1070	1092	1065	1045	1027	971
30-39	2779	2878	2994	3114	3261	3320	3459	3658	3739	3914	4016	4137
40-49	5019	5443	5907	6353	6814	7244	7670	8114	8367	8736	8995	9340
50-59	6240	6719	7200	7441	7,747	8,238	8,927	9,613	10,259	10,951	11,616	12,366
60-64	4268	4534	4684	4728	4844	4927	5024	5,236	5,513	5,748	6,014	6,319
65-69	5,872	6,333	6,555	6,561	6,733	6,885	7,022	7,119	7,170	7,380	7,575	7,720
70-79	11,390	12,577	13,690	14,423	15,154	16,097	16,912	17,555	17,910	18,307	18,802	18,873
80+	4,458	5,104	5,767	6,316	6,936	7,654	8,563	9,407	10,280	11,237	12,244	13,172
0-19	61	56	48	40	40	47	53	44	36	28	36	51
20-44	5988	6281	6540	6869	7231	7531	7944	8336	8508	8772	8812	9009
45-64	13,111	14,158	15,132	15,669	16,385	17,200	18,205	19,376	20,434	21,622	22,855	24,124
65-74	12,172	13,244	13,972	14,270	14,675	15,123	15,489	15,750	15,877	16,233	16,556	16,691
75+	9,548	10,770	12,040	13,030	14,147	15,512	17,008	18,331	19,483	20,691	22,065	23,074
Male	23,106	25,310	27,163	28,385	30,171	32,005	33,983	35,895	37,480	39,380	41,154	42,512
Female	17,774	19,199	20,569	21,493	22,308	23,408	24,717	25,942	26,859	27,965	29,171	30,437
White	18,290	20,000	21,447	22,244	23,516	24,887	26,510	28,075	29,400	30,844	32,276	33,492
Black	21,543	23,304	24,952	26,202	27,407	28,836	30,310	31,691	32,681	34,021	35,346	36,633
Native American	170	176	197	204	218	229	250	255	257	268	277	291
Asian	877	1029	1135	1228	1338	1460	1630	1816	2000	2212	2425	2534
†Hispanic				2945	3266	3579	3973	4485	9,876	5,317	5,668	6,027
†Non-Hispanic				47,057	49,398	52,062	54,985	57,632	119,466	62,402	65,102	67,416
All	40,880	44,509	47,732	49,878	52,479	55,413	58,700	61,836	64,339	67,346	70,324	72,949

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	357	361	370	339	314	289	280	273	282	297	295	282	266
20-29	1278	1292	1366	1389	1427	1415	1383	1396	1408	1442	1546	1577	1617
30-39	1555	1701	1859	2035	2178	2313	2353	2455	2591	2639	2755	2806	2978
40-49	1353	1468	1595	1744	1999	2074	2154	2243	2419	2632	2875	3077	3319
50-59	1542	1688	1842	2030	2218	2294	2341	2429	2439	2514	2545	2643	2827
60-64	689	779	957	1113	1239	1352	1414	1463	1514	1532	1553	1569	1564
65-69	596	644	750	876	1062	1157	1303	1443	1594	1675	1800	1914	1949
70-79	491	600	761	987	1244	1460	1671	1875	2078	2264	2497	2805	3087
80+	48	70	110	152	212	274	338	435	482	579	686	816	919
0-19	357	361	370	339	314	289	280	273	282	297	295	282	266
20-44	3540	3748	4003	4282	4621	4782	4840	5044	5260	5466	5839	6062	6376
45-64	2876	3179	3617	4029	4440	4665	4806	4941	5112	5293	5435	5611	5929
65-74	925	1029	1232	1508	1850	2064	2323	2574	2854	2996	3281	3547	3718
75+	211	286	389	507	668	827	990	1179	1300	1522	1702	1988	2238
Male	4688	5069	5672	6309	7036	7479	7,787	8,188	8,588	9,026	9,655	10,244	10,911
Female	3221	3534	3939	4356	4858	5149	5451	5824	6220	6547	6,897	7,245	7,616
White	5973	6408	7034	7659	8,357	8,712	9,024	9,452	9,916	10,257	10,773	11,326	11,815
Black	1794	2018	2366	2736	3172	3487	3737	4044	4327	4660	5065	5395	5836
Native American	55	63	67	84	109	108	116	126	126	136	139	148	167
Asian	86	113	144	186	255	319	361	390	438	520	575	620	709
†Hispanic													
†Non-Hispanic													
All	7909	8603	9,611	10,665	11,893	12,627	13,238	14,012	14,808	15,573	16,552	17,489	18,527
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	284	289	276	301	310	305	316	292	291	287	294	270	
20-29	1641	1723	1794	1861	1898	1980	2062	2086	2030	2020	1998	1995	
30-39	3125	3186	3307	3465	3620	3682	3750	3833	3861	3874	3939	3981	
40-49	3563	3812	4049	4366	4653	4944	5184	5397	5485	5599	5614	5557	
50-59	2970	3092	3235	3430	3705	3955	4311	4634	4957	5333	5492	5661	
60-64	1531	1628	1647	1684	1716	1773	1837	1934	1982	2020	2117	2227	
65-69	2003	2003	2039	2057	2075	2117	2181	2196	2198	2143	2070	2113	
70-79	3327	3571	3,826	3,981	4,244	4,518	4,656	4,745	4,619	4,568	4,525	4,300	
80+	993	1152	1301	1457	1580	1695	1777	1903	2008	2110	2149	2194	
0-19	284	289	276	301	310	305	316	292	291	287	294	270	
20-44	6675	6874	7148	7496	7800	8065	8316	8495	8467	8574	8603	8591	
45-64	6156	6566	6884	7310	7,791	8270	8,828	9,390	9,848	10,271	10,557	10,830	
65-74	3924	4036	4,192	4,285	4,326	4,534	4,631	4,670	4,624	4,523	4,352	4,278	
75+	2399	2689	2,975	3,210	3,573	3,797	3,982	4,174	4,202	4,299	4,392	4,329	
Male	11,517	12,188	12,765	13,443	14,304	15,102	15,796	16,359	16,617	16,941	17,065	17,108	
Female	7,923	8,267	8,710	9,159	9,497	9,869	10,278	10,662	10,815	11,012	11,134	11,190	
White	12,198	12,731	13,247	13,792	14,398	15,009	15,519	15,908	16,050	16,185	16,142	16,088	
Black	6272	6645	7038	7520	8001	8450	8905	9387	9,604	9,880	10,101	10,255	
Native American	188	205	225	241	260	281	318	322	337	360	379	381	
Asian	781	875	965	1049	1142	1231	1331	1404	1442	1528	1576	1573	
†Hispanic				2090	2339	2544	2671	2833	5960	3014	3114	3214	
†Non-Hispanic				20,580	21,566	22,557	23,556	24,355	49,285	25,159	25,345	25,356	
All	19,439	20,455	21,474	22,602	23,801	24,971	26,073	27,021	27,432	27,953	28,198	28,298	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	515	526	519	490	429	382	363	351	377	384	372	380	369
20-29	1480	1494	1465	1456	1502	1518	1470	1435	1456	1537	1628	1603	1632
30-39	2056	2142	2129	2079	2092	2025	2052	2098	2198	2303	2429	2569	2697
40-49	3164	3191	3119	2935	3061	2865	2697	2674	2697	2792	2909	3109	3347
50-59	5539	5658	5569	5386	5232	4830	4496	4295	4093	4002	3882	3929	3974
60-64	2818	3020	3113	3081	3234	3167	3024	2878	2835	2775	2696	2603	2625
65-69	2677	2764	2673	2677	2967	2931	2890	2960	3102	3137	3170	3210	3188
70-79	2733	2,947	3,029	3,172	3,750	3,903	3,938	4,106	4,341	4,514	4,637	4,887	5,280
80+	362	413	447	538	716	767	878	961	1135	1287	1409	1548	1709
0-19	515	526	519	490	429	382	363	351	377	384	372	380	369
20-44	4940	5042	4969	4831	4980	4807	4725	4789	4885	5150	5433	5715	5956
45-64	10,116	10,461	10,426	10,105	10,142	9,598	9,014	8,591	8,393	8,259	8,111	8,098	8,319
65-74	4,493	4,721	4,615	4,711	5,305	5,304	5,288	5,382	5,644	5,767	5,819	6,020	6,234
75+	1279	1404	1534	1676	2129	2297	2,418	2,646	2,935	3,170	3,397	3,626	3,942
Male	11,086	11,452	11,204	11,018	11,491	11,107	10,804	10,649	10,959	11,245	11,494	11,955	12,543
Female	10,257	10,702	10,859	10,795	11,493	11,282	11,005	11,110	11,275	11,485	11,638	11,883	12,277
White	15,602	16,085	15,974	15,812	16,640	16,232	15,908	15,863	16,115	16,391	16,560	16,897	17,559
Black	5,588	5,894	5,871	5,734	6,017	5,792	5,493	5,435	5,593	5,735	5,924	6,245	6,472
Native American	50	59	66	86	101	108	114	123	125	140	150	161	169
Asian	105	117	152	182	226	257	294	338	401	464	498	535	621
†Hispanic													
†Non-Hispanic													
All	21,344	22,155	22,064	21,813	22,984	22,389	21,809	21,759	22,234	22,731	23,133	23,839	24,820

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	378	385	414	443	432	444	469	467	439	495	504	514
20-29	1697	1696	1723	1783	1864	1918	1986	2043	2093	2095	2123	2129
30-39	2810	2938	3081	3252	3379	3568	3662	3788	3898	3943	3980	3986
40-49	3436	3670	3873	4253	4599	4908	5394	5798	6059	6267	6528	6640
50-59	3979	4138	4315	4477	4677	5089	5578	5,965	6,475	6,969	7,401	7,714
60-64	2603	2524	2500	2594	2643	2759	2892	3048	3106	3168	3328	3601
65-69	3200	3246	3278	3367	3443	3473	3515	3637	3,786	3,918	3,973	4,017
70-79	5,441	5,599	5,973	6,423	6,951	7,408	7,748	8,110	8,223	8,356	8,495	8,470
80+	1891	2072	2,272	2,629	2,858	3,146	3,482	3,794	4,160	4,453	4,700	4,881
0-19	378	385	414	443	432	444	469	467	439	495	504	514
20-44	6164	6415	6645	7036	7450	7881	8241	8586	8804	8920	9075	9098
45-64	8,360	8,551	8,847	9,323	9,711	10,362	11,271	12,057	12,827	13,523	14,285	14,973
65-74	6,303	6,455	6,711	6,920	7,210	7,480	7,602	7,795	7,969	8,151	8,225	8,286
75+	4,230	4,463	4,812	5,500	6,042	6,548	7,143	7,746	8,200	8,577	8,943	9,082
Male	12,961	13,486	14,216	15,332	16,371	17,531	18,709	19,958	20,886	21,764	22,538	23,058
Female	12,475	12,783	13,213	13,890	14,474	15,184	16,017	16,693	17,354	17,901	18,494	18,894
White	17,847	18,313	19,039	20,191	21,280	22,455	23,708	24,991	26,097	26,948	27,722	28,231
Black	6,732	7,053	7,445	7,977	8,450	9,071	9,734	10,316	10,771	11,250	11,728	12,094
Native American	189	192	196	208	228	238	260	267	273	292	313	327
Asian	667	711	748	845	885	950	1024	1076	1099	1174	1268	1301
†Hispanic				2371	2627	2811	3042	3366	7,278	3795	3933	4140
†Non-Hispanic				26,941	28,348	30,055	31,860	33,481	69,661	36,156	37,448	38,231
All	25,435	26,269	27,429	29,221	30,844	32,714	34,726	36,650	38,239	39,664	41,032	41,952

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	1363	1377	1334	1283	1150	1073	1013	980	1018	1073	1047	1042	1029
20-29	4299	4437	4665	4781	4954	5023	5060	4997	5050	5339	5645	5805	5923
30-39	6340	6923	7528	8016	8525	8955	9411	9798	10373	11078	11771	12229	13,083
40-49	7931	8534	9050	9628	10664	11,150	11,473	12,177	13,023	14,353	15,883	17,446	19,373
50-59	11,930	13,060	14,236	15,346	16,187	16,925	17,523	18,234	19,207	20,496	21,886	23,580	25,722
60-64	6,187	6,859	7,884	8,930	10,162	11,087	11,904	12,529	13,567	14,500	15,569	16,865	18,160
65-69	5,805	6,268	6,964	8,179	9,592	10,550	11,672	13,217	14,898	16,656	18,521	20,466	22,455
70-79	5,739	6,766	7,981	9,952	12,089	13,970	15,786	18,070	20,366	23,247	26,430	30,374	35,111
80+	766	964	1268	1713	2308	2830	3,493	4,253	5,222	6,241	7,471	9,057	10,660
0-19	1363	1377	1334	1283	1150	1073	1013	980	1018	1073	1047	1042	1029
20-44	14349	15,355	16,324	17,228	18,445	19,097	19,778	20,526	21,486	23,131	24,997	26,531	28,250
45-64	22,338	24,458	27,039	29,473	32,047	34,043	35,593	37,209	39,734	42,635	45,757	49,394	54,011
65-74	9,600	10,710	12,140	14,538	17,116	19,092	21,181	23,992	26,856	30,191	33,821	38,137	42,910
75+	2710	3288	4,073	5,306	6,873	8,258	9,770	11,548	13,630	15,953	18,601	21,760	25,316
Male	27,639	30,307	33,093	36,663	40,571	43,658	46,451	49,783	53,851	59,072	65,011	71,402	78,833
Female	22,721	24,881	27,817	31,165	35,060	37,905	40,884	44,472	48,873	53,911	59,212	65,462	72,683
White	34,663	37,448	40,638	44,397	48,751	51,562	54,572	58,273	62,765	68,190	74,379	81,229	89,133
Black	15,220	17,098	19,347	22,226	25,323	28,102	30,444	33,295	36,821	41,105	45,528	50,737	56,681
Native American	206	288	381	486	608	688	798	927	1079	1282	1457	1586	1837
Asian	271	354	544	719	949	1211	1521	1760	2059	2406	2859	3312	3865
†Hispanic													
†Non-Hispanic													
All	50,360	55,188	60,910	67,828	75,631	81,563	87,335	94,255	102,724	112,983	124,223	136,864	151,516

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	1034	1045	1061	1102	1065	1109	1179	1110	1096	1148	1186	1150
20-29	6094	6171	6270	6391	6565	6746	6945	7092	7119	7071	6963	6865
30-39	13,772	14,330	14,895	15,467	15,997	16,433	16,860	17,367	17,832	18,128	18,284	18,517
40-49	20,781	22,336	24,001	26,095	28,214	30,100	32,096	33,760	35,072	36,570	37,552	38,409
50-59	27,811	30,368	32,462	34,510	37,698	41,206	45,214	48,776	52,542	56,268	59,108	61,679
60-64	19,068	20,329	21,324	22,761	24,287	25,889	27,592	29,198	30,713	32,095	33,968	35,531
65-69	24,344	26,184	27,628	29,307	31,333	33,110	34,681	36,036	37,351	38,892	39,879	40,825
70-79	39,006	42,979	47,465	52,015	57,377	62,730	67,350	70,679	73,669	76,425	78,248	79,309
80+	12,532	14,268	16,121	18,292	20,766	23,396	26,421	28,855	31,877	35,298	38,086	40,530
0-19	1034	1045	1061	1102	1065	1109	1179	1110	1096	1148	1186	1150
20-44	29,651	30,783	31,976	33,356	34,900	36,460	37,882	39,089	39,909	40,810	40,961	41,325
45-64	57,875	62,751	66,976	71,868	77,861	83,914	90,825	97,104	103,369	109,322	114,914	119,676
65-74	47,089	51,340	55,206	59,039	63,404	67,730	71,106	73,700	76,278	78,996	80,583	81,886
75+	28,793	32,091	36,008	40,575	46,072	51,506	57,346	61,870	66,619	71,619	75,630	78,778
Male	85,794	93,142	99,922	107,862	117,612	127,407	137,419	145,777	154,136	162,976	169,823	176,004
Female	78,648	84,868	91,305	98,078	105,690	113,312	120,919	127,096	133,135	138,919	143,451	146,811
White	95,718	102,727	110,003	118,093	128,346	138,435	148,742	157,593	166,494	175,285	181,468	187,014
Black	62,214	67,834	72,957	78,634	84,861	91,167	97,233	101,980	106,572	111,274	115,694	118,898
Native American	2069	2292	2522	2794	3005	3273	3633	3867	4000	4228	4316	4491
Asian	4441	5157	5745	6419	7,090	7,844	8,730	9,433	10,205	11,108	11,796	12,412
†Hispanic				20,377	23,386	26,050	28,851	32,541	70,304	37,639	40,033	42,274
†Non-Hispanic				186,594	201,365	216,364	231,429	242,470	508,866	266,761	276,151	283,840
All	164,442	178,010	191,227	205,940	223,302	240,719	258,338	272,873	287,271	301,895	313,274	322,815

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	14	19	20	11	14	16	19	16	19	21	26	23	22
20-29	316	389	486	550	603	654	704	697	741	808	816	899	872
30-39	797	968	1214	1374	1596	1766	1970	2014	2156	2448	2637	2743	2956
40-49	778	981	1238	1522	1882	2131	2422	2806	3189	3828	4364	4954	5624
50-59	1176	1607	2247	2818	3375	4110	4644	5,247	5,905	6,781	7,829	9,075	10,324
60-64	650	838	1206	1646	2189	2658	3143	3631	4315	5,033	5,882	6,854	7,698
65-69	501	715	972	1324	1783	2257	2796	3552	4,262	5,257	6,242	7,394	8,775
70-79	303	511	819	1131	1608	2088	2691	3,345	4,064	5,101	6,548	8,142	10,104
80+	19	32	63	106	162	217	302	429	576	688	936	1291	1608
0-19	14	19	20	11	14	16	19	16	19	21	26	23	22
20-44	1480	1822	2254	2612	3080	3394	3782	3954	4301	4907	5328	5814	6206
45-64	2237	2961	4137	5,298	6,565	7,925	9,101	10,441	12,005	13,991	16,200	18,711	21,268
65-74	717	1080	1561	2140	2912	3,687	4,589	5,796	6,945	8,607	10,533	12,698	15,392
75+	106	178	293	421	641	875	1200	1530	1957	2439	3193	4,129	5,095
Male	2369	3067	4013	5,003	6,191	7,450	8,717	10,066	11,560	13,544	15,896	18,450	21,298
Female	2185	2993	4252	5,479	7,021	8,447	9,974	11,671	13,667	16,421	19,384	22,925	26,685
White	3114	4037	5,433	6,728	8,331	9,749	11,277	12,965	14,931	17,719	20,825	24,244	27,925
Black	1378	1899	2603	3424	4407	5546	6,606	7,786	9,078	10,750	12,633	15,011	17,550
Native American	55	105	164	225	301	352	439	524	656	819	952	1053	1222
Asian	*	19	65	105	173	250	369	462	562	677	870	1067	1286
†Hispanic													
†Non-Hispanic													
All	4554	6,060	8,265	10,482	13,212	15,897	18,691	21,737	25,227	29,965	35,280	41,375	47,983
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	25	18	16	15	16	14	13	13	15	13	*	*	
20-29	893	843	787	808	791	762	785	798	853	826	786	775	
30-39	3176	3389	3576	3649	3724	3836	3954	4035	4201	4277	4245	4399	
40-49	6150	6775	7,360	8,189	9,053	9,733	10,396	10,953	11,471	12,118	12,542	13,031	
50-59	11,610	13,065	14,463	15,952	18,012	20,150	22,341	24,289	26,300	27,934	29,395	30,667	
60-64	8,417	9,350	10,285	11,507	12,715	14,009	15,285	16,356	17,358	18,398	19,500	20,284	
65-69	10,067	11,218	12,525	13,961	15,519	16,963	18,283	19,423	20,448	21,476	22,224	22,882	
70-79	11,922	13,953	16,326	19,033	22,171	25,229	28,002	30,181	32,647	34,495	35,903	37,025	
80+	2016	2464	2,986	3,692	4,504	5,481	6,483	7,301	8,477	9,746	10,898	11,862	
0-19	25	18	16	15	16	14	13	13	15	13	*	*	
20-44	6604	6956	7258	7,547	7,954	8,325	8,685	8,972	9,342	9,616	9,680	9,951	
45-64	23,642	26,466	29,213	32,558	36,341	40,165	44,076	47,459	50,841	53,937	56,788	59,205	
65-74	17,832	20,321	23,091	26,000	29,210	32,263	34,905	37,022	39,266	41,078	42,505	43,569	
75+	6,173	7,314	8,746	10,686	12,984	15,410	17,863	19,883	22,306	24,639	26,520	28,200	
Male	24,219	27,408	30,769	34,958	39,703	44,831	49,933	54,163	58,948	63,380	67,268	71,053	
Female	30,057	33,667	37,555	41,848	46,802	51,346	55,609	59,186	62,822	65,903	68,233	69,882	
White	31,465	35,151	39,275	43,956	49,628	55,455	61,118	66,120	71,633	76,318	80,155	83,658	
Black	19,906	22,474	25,081	28,273	31,775	35,056	38,034	40,229	42,592	44,794	46,820	48,252	
Native American	1382	1572	1768	1991	2155	2350	2629	2816	2923	3100	3147	3280	
Asian	1523	1878	2200	2586	2947	3316	3761	4184	4622	5071	5379	5,745	
†Hispanic				10,981	13,116	14,925	16,779	19,100	41,750	22,549	24,273	25,808	
†Non-Hispanic				66,437	74,277	82,298	89,938	95,533	204,462	108,152	112,796	116,892	
All	54,276	61,075	68,324	76,806	86,505	96,177	105,542	113,349	121,770	129,283	135,501	140,935	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	68	64	61	66	64	62	47	45	55	74	92	104	91
20-29	420	457	504	529	563	589	607	632	650	730	820	903	957
30-39	1024	1161	1335	1496	1632	1782	1909	2078	2264	2526	2707	2917	3202
40-49	1526	1799	2083	2328	2633	2884	3013	3207	3453	3836	4371	4879	5553
50-59	1997	2443	3000	3512	3824	4173	4426	4716	5159	5574	6085	6423	7014
60-64	1039	1291	1696	2102	2487	2892	3247	3465	3745	4087	4375	4779	5215
65-69	985	1259	1697	2147	2705	3082	3515	4036	4694	5,244	5,983	6,626	7,171
70-79	1027	1518	2173	2991	3889	4,744	5,566	6,790	7,838	9,130	10,472	12,141	14,006
80+	132	233	404	567	822	1116	1430	1844	2366	2,892	3,600	4,448	5,400
0-19	68	64	61	66	64	62	47	45	55	74	92	104	91
20-44	2153	2476	2794	3108	3372	3638	3852	4154	4470	5015	5611	6174	6839
45-64	3853	4675	5824	6859	7767	8,682	9,350	9,944	10,801	11,738	12,747	13,727	15,102
65-74	1675	2277	3126	3999	5,040	5,885	6,713	7,881	9,062	10,247	11,626	13,223	14,772
75+	469	733	1148	1706	2376	3057	3,798	4,789	5,836	7,019	8,429	9,992	11,805
Male	4827	5978	7581	9,116	10,718	12,202	13,509	15,124	16,987	19,140	21,777	24,431	27,454
Female	3391	4247	5372	6622	7,901	9,122	10,251	11,689	13,237	14,953	16,728	18,789	21,155
White	3648	4633	6083	7,356	8,629	9,893	11,005	12,541	14,217	16,030	18,298	20,705	23,334
Black	4525	5522	6744	8212	9,773	11,150	12,397	13,823	15,485	17,436	19,435	21,586	24,161
Native American	20	27	36	44	58	68	70	87	96	116	132	152	193
Asian	25	43	90	126	159	213	288	362	426	511	640	777	921
†Hispanic													
†Non-Hispanic													
All	8218	10,225	12,953	15,738	18,619	21,324	23,760	26,813	30,224	34,093	38,505	43,220	48,609

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	94	88	72	59	61	68	73	61	48	42	50	74
20-29	1031	1098	1113	1105	1156	1240	1286	1313	1305	1278	1233	1157
30-39	3365	3510	3556	3715	3831	3926	4093	4289	4411	4593	4724	4793
40-49	6019	6519	7018	7446	7990	8494	8962	9436	9760	10189	10505	10815
50-59	7595	8357	8641	8854	9,320	9,845	10,707	11,443	12,266	13,181	13,876	14,653
60-64	5438	5769	5829	5831	6078	6168	6315	6,568	6,889	7,063	7,531	7,828
65-69	7,677	8,296	8,306	8,366	8,617	8,889	8,995	9,064	9,198	9,505	9,690	9,949
70-79	15,659	17,057	18,266	19,180	20,383	21,712	22,830	23,504	23,955	24,734	25,106	25,131
80+	6,509	7,372	8,136	8,944	10,030	11,079	12,422	13,578	14,806	16,223	17,536	18,706
0-19	94	88	72	59	61	68	73	61	48	42	50	74
20-44	7287	7642	7824	8159	8510	8954	9375	9763	9985	10322	10340	10462
45-64	16,161	17,611	18,333	18,792	19,865	20,719	21,988	23,286	24,646	25,982	27,529	28,784
65-74	16,190	17,576	18,079	18,490	19,089	19,824	20,216	20,452	20,615	21,281	21,487	21,744
75+	13,655	15,149	16,629	18,000	19,941	21,856	24,031	25,694	27,344	29,181	30,845	32,042
Male	30,254	33,050	34,602	36,123	38,718	41,086	43,564	45,679	47,760	50,359	52,326	53,971
Female	23,133	25,016	26,335	27,377	28,748	30,335	32,119	33,577	34,878	36,449	37,925	39,135
White	25,595	27,787	29,078	30,158	32,326	34,277	36,548	38,484	40,282	42,532	44,127	45,592
Black	26,449	28,732	30,180	31,553	33,175	34,982	36,731	38,175	39,530	41,167	42,759	43,984
Native American	213	232	239	247	262	292	308	327	337	330	342	371
Asian	1130	1315	1440	1542	1703	1870	2096	2270	2489	2779	3023	3159
†Hispanic				3822	4166	4549	5038	5769	12,466	6,730	7,160	7,551
†Non-Hispanic				59,864	63,555	67,165	70,973	73,857	153,668	80,535	83,665	86,186
All	53,387	58,066	60,937	63,500	67,466	71,421	75,683	79,256	82,638	86,808	90,251	93,106

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	511	534	529	506	462	417	411	410	420	441	420	404	399
20-29	1631	1661	1785	1803	1861	1835	1843	1835	1807	1862	1989	2023	2026
30-39	1903	2115	2304	2551	2699	2857	2925	3055	3193	3224	3392	3441	3585
40-49	1639	1799	1972	2160	2445	2561	2630	2782	2958	3174	3491	3717	3989
50-59	1853	2065	2296	2485	2688	2765	2866	2976	3027	3098	3147	3217	3417
60-64	825	972	1184	1378	1546	1639	1743	1810	1883	1883	1939	1952	1946
65-69	733	814	983	1108	1353	1467	1638	1831	2021	2108	2262	2413	2416
70-79	649	815	1049	1329	1651	1947	2223	2465	2727	3018	3298	3631	4056
80+	68	103	169	222	295	396	473	590	680	829	979	1137	1263
0-19	511	534	529	506	462	417	411	410	420	441	420	404	399
20-44	4392	4698	5056	5427	5809	5988	6114	6357	6537	6735	7243	7495	7739
45-64	3459	3914	4485	4950	5430	5669	5893	6101	6331	6506	6715	6855	7224
65-74	1156	1331	1642	1950	2376	2654	2979	3303	3641	3873	4196	4494	4720
75+	294	401	559	709	923	1156	1355	1583	1787	2082	2343	2687	3015
Male	5844	6493	7340	8111	9021	9531	10,042	10,527	10,991	11,556	12,343	13,002	13,727
Female	3968	4385	4931	5431	5979	6353	6710	7227	7725	8081	8,574	8,933	9,370
White	7478	8202	9062	9811	10,672	11,098	11,605	12,188	12,699	13,154	13,887	14,471	15,071
Black	2157	2450	2926	3362	3873	4234	4530	4899	5279	5663	6111	6478	6934
Native American	67	77	89	108	128	133	138	161	164	169	182	189	206
Asian	110	149	194	261	327	419	479	506	574	651	737	797	886
†Hispanic													
†Non-Hispanic													
All	9812	10878	12,271	13,542	15,000	15,884	16,752	17,754	18,716	19,637	20,917	21,935	23,097
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	405	409	405	421	420	423	430	408	411	405	416	385	
20-29	2058	2130	2224	2269	2345	2382	2448	2486	2414	2421	2389	2355	
30-39	3729	3771	3926	4080	4262	4342	4362	4461	4484	4518	4538	4590	
40-49	4274	4503	4768	5174	5485	5789	6048	6315	6396	6543	6558	6461	
50-59	3599	3761	3974	4124	4456	4748	5177	5504	5915	6411	6490	6696	
60-64	1917	2030	2045	2106	2122	2195	2268	2335	2420	2481	2587	2731	
65-69	2509	2522	2543	2613	2625	2685	2759	2744	2727	2679	2642	2600	
70-79	4277	4604	4,905	5,135	5,439	5,760	5,968	6,005	5,841	5,821	5,689	5,423	
80+	1365	1594	1790	1969	2147	2307	2468	2550	2670	2875	2862	2917	
0-19	405	409	405	421	420	423	430	408	411	405	416	385	
20-44	8061	8207	8576	8933	9269	9530	9737	9943	9876	10062	10029	9974	
45-64	7516	7988	8361	8820	9,401	9926	10,566	11,158	11,753	12,312	12,533	12,859	
65-74	4957	5109	5,265	5,439	5,523	5,737	5,852	5,828	5,762	5,695	5,505	5331	
75+	3194	3611	3,973	4,278	4,688	5,015	5,343	5,471	5,476	5,680	5,688	5,609	
Male	14,415	15,175	15,927	16,703	17,697	18,521	19,357	19,903	20,202	20,696	20,762	20,755	
Female	9,718	10,149	10,653	11,188	11,604	12,110	12,571	12,905	13,076	13,458	13,409	13,403	
White	15,504	16,147	16,796	17,528	18,261	18,951	19,598	19,921	20,020	20,498	20,258	20,040	
Black	7435	7849	8335	8791	9360	9841	10358	10808	11,136	11,417	11,619	11,791	
Native American	228	250	276	294	312	348	376	396	395	423	444	434	
Asian	966	1078	1173	1278	1368	1491	1596	1683	1727	1816	1850	1893	
†Hispanic				2573	2842	3078	3187	3388	7130	3658	3724	3858	
†Non-Hispanic				25,413	26,595	27,710	28,934	29,624	59,914	30,759	30,765	30,643	
All	24,133	25,324	26,580	27,891	29,301	30,631	31,928	32,808	33,278	34,154	34,171	34,158	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	770	760	724	700	610	578	536	509	524	537	509	511	517
20-29	1932	1930	1890	1899	1927	1945	1906	1833	1852	1939	2020	1980	2068
30-39	2616	2679	2675	2595	2598	2550	2607	2651	2760	2880	3035	3128	3340
40-49	3988	3955	3757	3618	3704	3574	3408	3382	3423	3515	3657	3896	4207
50-59	6904	6945	6693	6531	6300	5877	5587	5295	5116	5043	4825	4865	4967
60-64	3673	3758	3798	3804	3940	3898	3771	3623	3624	3497	3373	3280	3301
65-69	3586	3480	3312	3600	3751	3744	3723	3798	3921	4047	4034	4033	4093
70-79	3760	3,922	3,940	4,501	4,941	5,191	5,306	5,470	5,737	5,998	6,112	6,460	6,945
80+	547	596	632	818	1029	1101	1288	1390	1600	1832	1956	2181	2389
0-19	770	760	724	700	610	578	536	509	524	537	509	511	517
20-44	6324	6359	6220	6081	6184	6077	6030	6061	6178	6474	6815	7048	7466
45-64	12,789	12,908	12,593	12,366	12,285	11,767	11,249	10,723	10,597	10,400	10,095	10,101	10,417
65-74	6,052	6,022	5,811	6,449	6,788	6,866	6,900	7,012	7,208	7,464	7,466	7,722	8,026
75+	1841	1976	2073	2470	2933	3170	3,417	3,646	4,050	4,413	4,636	4,952	5,401
Male	14,599	14,769	14,159	14,433	14,641	14,475	14,183	14,066	14,313	14,832	14,995	15,519	16,354
Female	13,177	13,256	13,262	13,633	14,159	13,983	13,949	13,885	14,244	14,456	14,526	14,815	15,473
White	20,423	20,576	20,060	20,502	21,119	20,822	20,685	20,579	20,918	21,287	21,369	21,809	22,803
Black	7,160	7,227	7,074	7,228	7,270	7,172	6,911	6,787	6,979	7,256	7,349	7,662	8,036
Native American	64	79	92	109	121	135	151	155	163	178	191	192	216
Asian	129	143	195	227	290	329	385	430	497	567	612	671	772
†Hispanic													
†Non-Hispanic													
All	27,776	28,025	27,421	28,066	28,800	28,458	28,132	27,951	28,557	29,288	29,521	30,334	31,827

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	510	530	568	607	568	604	663	628	622	688	712	681
20-29	2112	2100	2146	2209	2273	2362	2426	2495	2547	2546	2555	2578
30-39	3502	3660	3837	4023	4180	4329	4451	4582	4736	4740	4777	4735
40-49	4338	4539	4855	5286	5686	6084	6690	7056	7445	7720	7947	8102
50-59	5007	5185	5384	5580	5910	6463	6989	7,540	8,061	8,742	9,347	9,663
60-64	3296	3180	3165	3317	3372	3517	3724	3939	4046	4153	4350	4688
65-69	4091	4148	4254	4367	4572	4573	4644	4805	4,978	5,232	5,323	5,394
70-79	7,148	7,365	7,968	8,667	9,384	10,029	10,550	10,989	11,226	11,375	11,550	11,730
80+	2642	2838	3,209	3,687	4,085	4,529	5,048	5,426	5,924	6,454	6,790	7,045
0-19	510	530	568	607	568	604	663	628	622	688	712	681
20-44	7699	7978	8318	8717	9167	9651	10085	10411	10706	10810	10912	10938
45-64	10,556	10,686	11,069	11,698	12,254	13,104	14,195	15,201	16,129	17,091	18,064	18,828
65-74	8,110	8,334	8,771	9,110	9,582	9,906	10,133	10,398	10,635	10,942	11,086	11,242
75+	5,771	6,017	6,660	7,611	8,459	9,225	10,109	10,822	11,493	12,119	12,577	12,927
Male	16,906	17,509	18,624	20,078	21,494	22,969	24,565	26,032	27,226	28,541	29,467	30,225
Female	15,740	16,036	16,762	17,665	18,536	19,521	20,620	21,428	22,359	23,109	23,884	24,391
White	23,154	23,642	24,854	26,451	28,131	29,752	31,478	33,068	34,559	35,937	36,928	37,724
Black	8,424	8,779	9,361	10,017	10,551	11,288	12,110	12,768	13,314	13,896	14,496	14,871
Native American	246	238	239	262	276	283	320	328	345	375	383	406
Asian	822	886	932	1013	1072	1167	1277	1296	1367	1442	1544	1615
†Hispanic				3001	3262	3498	3847	4284	8,958	4702	4876	5057
†Non-Hispanic				34,880	36,938	39,191	41,584	43,456	90,822	47,315	48,925	50,119
All	32,646	33,545	35,386	37,743	40,030	42,490	45,185	47,460	49,585	51,650	53,351	54,616

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.12.4 (supplement)

Annual mortality rates: hemodialysis patients, unadjusted

per 1,000 patient years at risk, period prevalent patients, 2004, by age as of January 1, gender, race, & primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All
0-19	78.4	66.7	58.2	37.5	72.1	91.5	74.7	64.6	44	82.6	88.6	72.9	61.4	40.7	80.2
20-29	108.8	97.1	78.3	52.8	100.8	129.5	101.7	83.6	61.9	110.8	119.4	100	82.8	57.2	106.6
30-39	149.7	99.8	101.2	70.6	128.2	153.7	115.4	99.8	76.2	133.3	151.3	106.9	100.3	73.2	130.4
40-49	170.3	121.7	123.8	97.8	149.8	186.7	140.6	131.9	110.7	162.7	176.2	130.1	127.3	103.2	154.8
50-59	206.5	155.9	144.7	130.8	183.4	210.2	166.5	165.8	147.2	187.9	208	161.1	154.8	137.3	185.4
60-64	257.8	186.1	203.3	165.9	226.9	250.4	191.6	187.4	179.9	221.6	254.4	189	194.7	171.7	224.4
65-69	301	233	209	210	273	289	222	212	204	256	294.6	226.6	210.7	206.8	263.9
70-79	390	298	282	269	359	371	287	280	281	334.4	380.3	291.1	280.7	275.4	345.1
80+	537.4	433.9	384.7	389.8	507.1	510.7	412.1	370.2	395.9	469.1	524	419.1	375	393.2	486
All	293.4	203.1	185.1	201.3	258.3	301.9	224.9	204.7	231.2	265.8	297.3	215.2	195.9	215.7	262.1
HYPERTENSION															
0-19	30.2	27.6	28.1	12.8	27.7	34.6	30.3	30.5	14.7	31.7	32.3	28.8	29.3	13.4	29.5
20-29	44.8	39.5	42.9	20.9	40	50.5	45.6	45.7	23.8	46.1	46.8	41.6	43.6	21.7	42.1
30-39	59.5	52.3	57.7	30.7	53.2	65.5	58.3	60.4	33.3	58.9	61.2	54.1	58.6	31.6	54.9
40-49	98.8	81.9	90.8	47.9	85	95.8	89	93.8	49.8	89.3	97.8	84.3	91.6	48.7	86.5
50-59	155.2	124	135.3	72.4	131.2	163.1	124.1	124.4	82	133.4	158	124	131.5	76.6	132
60-64	216.7	168.5	182.6	117.8	185.8	211.3	164.5	170.5	117	180.6	214.5	166.8	176.6	117.5	183.7
65-69	266.8	203	236.3	161.6	233.2	269	197.7	212.7	153	226.3	267.7	200.4	223.9	158	230
70-79	343.1	283.2	334.1	228.2	321.5	347.5	279.9	311.4	232.4	315.1	344.9	281.4	322	230.2	318.5
80+	488	459	500	359	478	479	407	479	357	451.9	484.3	426.1	487.9	357.8	465.2
All	315	156	195	185	232	332	196	235	202	257.5	322.2	173	212.6	192.5	242.3
GLOMERULONEPHRITIS															
0-19	25.5	25.6	22.3	10.6	25.1	28.1	28.5	23.5	11.9	27.7	26.7	26.8	23.1	11.2	26.3
20-29	35	35.3	34.1	17.5	34.1	43.6	40.3	34.8	19.4	40.3	38.2	37.3	34.4	18.2	36.5
30-39	48	49.3	46.2	25.6	47.3	57.9	45.3	47.1	26.1	49	51.8	47.6	46.7	25.8	48
40-49	86.4	86.7	68.6	40	84.2	84.5	78.4	69	40	78	85.8	83.7	68.8	40	82
50-59	126.2	117	102.9	61.5	119.3	126.5	108.7	99.6	61	114.4	126.3	114	101.5	61.3	117.4
60-64	174.7	151.3	140.2	97.7	162.8	179.3	155	136.2	90.7	165.3	176.5	152.8	138	94.6	163.8
65-69	200.9	198.7	176	118.9	195.8	211.4	169.8	169.1	125.7	193.2	205	184.9	173.5	122.1	194.7
70-79	291.9	238.3	249.1	204.7	278.8	263.2	240.7	236.6	172.1	252.4	280.1	239.5	241.1	188.8	267.3
80+	411.7	389.9	400.8	303.8	404.7	432.9	356.6	338.9	291.9	413.8	420	372.3	361.1	298.6	408.4
All	176.2	105.7	96.3	91.2	145.9	182.4	109	102.4	86	148	178.6	107	99.1	88.7	146.7
OTHER															
0-19	41	47.5	40.4	19.7	42.9	46.5	55.1	43	21.7	48.6	43.5	50.9	41.6	20.8	45.6
20-29	54.5	74.6	58.5	29.7	60.7	62.4	84	63	33.4	70.3	58	79.7	60.6	31.9	65.3
30-39	69.7	117.5	74.6	42.7	89	76.9	105	78.9	45.8	88.7	72.9	111.2	76.8	44.4	88.9
40-49	116.5	149	107.8	60	128.8	106.3	126.9	107.1	64.8	113.6	112.1	139.3	107.4	62.6	122.1
50-59	171.5	163.7	151	87.6	166.5	158.3	158	153.8	100.3	156.2	165.5	161.2	152.2	94.2	161.8
60-64	234.4	223.9	198.4	122.6	228.6	226.2	211.7	193.1	134.1	218.7	230.8	218.1	195.7	128.7	224.1
65-69	294.3	269.9	247.2	168.1	284.6	269.3	250.2	238.9	161.2	260.8	283.3	260	243.4	165.1	273.8
70-79	364.8	347.5	315.3	241	358.6	357.5	333.5	295.7	236.6	348	361.7	340.4	303.3	238.7	353.9
80+	509.6	453.7	484.2	373	500.2	495.7	482.8	413.9	392.3	490.3	504	467.7	439.4	382.2	496.1
All	265	190.9	167.5	148.1	240.9	248.5	183.5	182	142.9	224.5	257.8	187.4	174.8	145.4	233.5
ALL															
0-19	35.8	38.3	34.1	16.2	36.2	40.8	45	32.7	19	41.5	38.1	41.3	33.4	17.6	38.7
20-29	50.2	51.1	45.1	23.6	49.3	63.3	66.2	53.7	29.2	62.9	55.6	57.9	49.5	26.1	55.2
30-39	85.7	70	73	36.4	75.4	93.4	78.5	77.8	40.2	82.8	88.7	73.4	75.7	38.1	78.4
40-49	130.1	101.8	108	64.5	113.5	133.2	109.3	117.1	66.9	117.9	131.2	104.7	111.7	65.6	115.2
50-59	181.7	138.9	141.1	104.8	158.9	183.5	147.3	158.9	110.7	163.6	182.4	142.5	149.4	107.4	160.8
60-64	238.4	180.4	198.8	144.4	211.4	234.7	183.6	184.4	151.4	208.9	236.8	181.9	191	147.4	210.3
65-69	283.4	223.2	211.3	185.2	258.2	276.8	214.8	211.3	183.6	246.3	280.3	218.5	211.3	184.4	252.2
70-79	361.1	293.3	288.9	246.3	339.3	354.3	286.1	281.7	253.1	325.3	358	289.1	284.4	249.9	332.3
80+	497.1	446.8	428.1	365.4	483.1	487.9	412.7	394.7	371.8	460.7	493	425.4	406.6	368.6	472.2
All	278.1	170.1	173.8	172.4	232.8	285.4	200.1	195.2	188	245	281.3	184.5	185.1	179.8	238.3

U.S. only; patients of unknown age or gender, or of other or unknown race, are excluded so that rates can be calculated appropriately. Includes all patients who have reached day 91 of ESRD by January 1 of each calendar year.

Table H.13

Total patient deaths: hemodialysis patients, never on transplant waitlist*by demographic characteristics, primary diagnosis, & patient vintage*

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	*	*	*	*	*	*	*	*	*	*	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*	*
15-19	21	25	14	25	18	25	11	18	14	12	*	18	23
20-29	199	223	208	191	200	219	222	216	255	276	247	227	264
30-39	435	465	534	523	619	676	694	823	816	826	899	868	901
40-49	728	774	776	862	923	1,040	1,088	1,183	1,230	1,294	1,475	1,546	1,751
50-59	1,453	1,584	1,746	2,029	2,066	2,266	2,336	2,401	2,616	2,740	2,780	2,875	3,233
60-64	1,064	1,147	1,350	1,465	1,767	1,994	2,105	2,216	2,447	2,562	2,585	2,791	3,019
65-69	1,239	1,351	1,464	1,750	1,973	2,272	2,602	2,721	3,155	3,551	3,808	4,032	4,394
70-79	1,517	1,849	2,149	2,527	3,324	3,817	4,196	4,806	5,477	6,244	6,966	7,740	9,043
80+	312	390	511	597	907	1,081	1,327	1,577	1,991	2,393	2,660	3,241	3,839
0-19	35	35	22	31	25	34	25	30	29	25	20	31	38
20-44	946	1,026	1,070	1,061	1,234	1,313	1,382	1,571	1,570	1,671	1,797	1,776	1,944
45-64	2,933	3,167	3,544	4,009	4,341	4,882	5,063	5,268	5,794	6,027	6,189	6,531	7,224
65-74	2,160	2,496	2,760	3,261	3,897	4,469	4,956	5,419	6,178	6,919	7,534	8,218	9,410
75+	908	1,094	1,364	1,613	2,307	2,701	3,169	3,685	4,445	5,269	5,900	6,795	7,866
Male	3,905	4,436	4,885	5,537	6,416	7,365	7,953	8,686	9,642	10,604	11,211	12,053	13,599
Female	3,077	3,382	3,875	4,438	5,388	6,034	6,642	7,287	8,374	9,307	10,229	11,298	12,883
Unknown													
White	4,954	5,587	6,206	6,961	8,262	9,227	9,854	10,839	12,159	13,210	14,414	15,738	17,895
Black	1,862	2,037	2,310	2,772	3,253	3,840	4,345	4,698	5,378	6,165	6,421	6,984	7,851
Native American	15	20	50	49	83	95	126	140	158	185	232	226	257
Asian	*	*	33	46	92	134	182	217	229	252	354	377	452
Other/unknown	144	167	161	147	114	103	88	79	92	99	19	26	27
†Hispanic													
†Non-Hispanic													
Diabetes	852	1,127	1,595	2,157	2,678	3,415	3,996	4,690	5,439	6,217	7,258	8,295	9,781
Hypertension	914	1,220	1,646	2,133	2,805	3,391	3,803	4,547	5,361	6,113	6,816	7,620	8,595
Glomerulonephritis	727	877	1,073	1,217	1,455	1,611	1,807	2,012	2,324	2,337	2,520	2,593	2,800
Cystic kidney	206	260	280	326	372	431	500	457	520	548	573	538	573
Other urologic	101	144	219	295	319	421	539	599	632	716	718	675	777
Other cause	598	650	769	964	1,161	1,326	1,452	1,621	1,663	1,825	2,012	2,188	2,325
Unknown cause	713	777	855	774	834	1,023	996	995	1,166	1,294	1,096	1,052	1,184
Missing disease	2,871	2,763	2,323	2,109	2,180	1,781	1,502	1,052	911	861	447	390	447
<2 years	4,305	4,601	4,985	5,681	6,873	7,643	8,150	9,025	10,292	11,336	12,389	13,580	15,349
2-<5 years	2,271	2,605	2,971	2,836	3,134	3,617	3,960	4,178	4,654	5,180	5,497	6,063	7,104
5+ years	406	612	804	1,458	1,797	2,139	2,485	2,770	3,070	3,395	3,554	3,708	4,029
All	6,982	7,818	8,760	9,975	11,804	13,399	14,595	15,973	18,016	19,911	21,440	23,351	26,482
All with unknowns dropped	6,138	6,887	7,761	9,066	10,860	12,283	13,516	14,909	16,765	18,536	20,325	22,275	25,274

The age of patient is determined as of the date of Death.

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

*Values for cells with 10 or fewer patients are suppressed.

"." Zero values in this cell.

Table H.13

Total patient deaths: hemodialysis patients, never on transplant waitlist

by demographic characteristics, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	*	*	*	*	*	*	*	*	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*
15-19	15	*	*	12	13	*	14	*	12	*	19	*
20-29	239	205	201	222	218	182	190	197	218	219	206	224
30-39	952	947	986	982	894	890	969	904	919	928	913	831
40-49	1,771	1,885	2,027	2,084	2,244	2,340	2,533	2,558	2,758	2,859	2,882	2,776
50-59	3,417	3,646	3,845	4,039	4,346	4,696	5,388	5,529	6,021	6,360	6,589	6,646
60-64	3,041	3,217	3,458	3,502	3,656	3,966	4,347	4,457	4,608	4,711	5,204	5,095
65-69	4,750	4,993	5,211	5,581	5,895	6,251	6,609	6,734	7,041	7,082	7,281	7,216
70-79	10,146	10,621	11,956	13,142	14,248	15,735	17,336	17,831	18,524	19,100	19,373	19,358
80+	4,491	5,121	5,734	6,561	7,462	8,536	9,821	10,731	11,813	12,953	13,797	14,466
0-19	30	18	23	17	17	19	22	16	17	14	33	14
20-44	1,977	1,988	2,074	2,059	2,008	2,020	2,177	2,099	2,137	2,245	2,208	2,081
45-64	7,443	7,912	8,443	8,770	9,350	10,054	11,250	11,546	12,387	12,832	13,586	13,491
65-74	10,260	10,856	11,601	12,451	13,203	14,204	15,169	15,430	15,970	16,340	16,504	16,352
75+	9,127	9,879	11,300	12,833	14,402	16,318	18,597	19,866	21,408	22,795	23,947	24,688
Male	14,743	15,744	17,100	18,508	19,835	21,813	24,166	25,158	26,814	28,154	29,498	30,055
Female	14,094	14,909	16,341	17,622	19,145	20,802	23,049	23,799	25,105	26,072	26,780	26,571
Unknown												
White	19,266	20,181	21,933	23,608	25,507	27,974	30,754	32,136	34,050	35,937	37,150	37,294
Black	8,771	9,443	10,323	11,027	11,766	12,722	14,238	14,490	15,457	15,722	16,471	16,618
Native American	295	326	343	422	431	470	534	615	587	644	627	605
Asian	482	669	784	913	1,010	1,107	1,252	1,250	1,361	1,492	1,575	1,651
Other/unknown	23	34	58	160	266	342	437	466	464	431	455	458
†Hispanic				2,880	3,474	3,922	4,413	4,774	5,231	5,539	5,921	5,958
†Non-Hispanic				33,250	35,506	38,693	42,802	44,183	46,688	48,687	50,357	50,668
Diabetes	10,895	11,850	13,430	15,211	16,787	19,065	21,825	22,603	24,468	25,457	26,673	26,838
Hypertension	9,700	10,446	11,201	11,461	12,209	13,091	14,100	14,644	15,255	16,040	16,566	16,957
Glomerulonephritis	2,882	2,909	3,181	3,207	3,374	3,478	3,693	3,705	3,736	3,873	3,770	3,512
Cystic kidney	598	598	617	643	677	629	693	669	783	733	739	703
Other urologic	798	699	819	992	1,052	1,139	1,276	1,361	1,447	1,504	1,572	1,588
Other cause	2,553	2,751	2,879	3,243	3,407	3,573	3,958	4,072	4,270	4,572	4,749	4,691
Unknown cause	1,131	1,111	1,219	1,295	1,411	1,569	1,596	1,819	1,909	2,007	2,103	2,145
Missing disease	280	289	95	78	63	71	74	84	51	40	106	192
<2 years	16,313	17,020	17,999	19,527	20,701	22,999	25,463	26,083	27,365	28,197	29,217	29,280
2-<5 years	8,012	8,817	9,905	10,660	11,620	12,435	13,794	14,362	15,281	16,222	16,669	16,673
5+ years	4,512	4,816	5,537	5,943	6,659	7,181	7,958	8,512	9,273	9,807	10,392	10,673
All	28,837	30,653	33,441	36,130	38,980	42,615	47,215	48,957	51,919	54,226	56,278	56,626
All with unknowns dropped	27,687	29,508	32,166	34,680	37,309	40,714	45,194	46,686	49,558	51,797	53,736	54,037

The age of patient is determined as of the date of Death.

The age of patient is determined as of the date of Death. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. *Values for cells with 10 or fewer patients are suppressed.

*Values for cells with 10 or fewer patients are suppressed. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

." Zero values in this cell.

Table H.14

Annual mortality rates per 1,000 patient YAR: hemodialysis patients, never on transplant waitlist

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	226	271.3	210.3	82.3	162	237.7	508.3	297.1	466.7	391.1	301.4	499.7	567.6
5-9	126.4	98.1	71	72	40.1	133	0	284.9	125.4	260.2	154.2	423.2	232.5
10-14	77.6	53.5	49.2	44.6	47.6	107.9	105.8	88.3	130.1	148.7	171.7	122.5	226.9
15-19	60.9	63.7	38.4	82.1	63.9	90.9	72.4	117	79.2	83.6	63.3	102.2	185.3
20-29	84.5	94.9	89	84.3	90.7	102.6	109.3	126.8	162.1	168.3	149.1	145.3	160.4
30-39	104.2	102.9	114.9	108.8	125.1	136	145.1	178.9	169.3	169.9	179.8	161.2	162.3
40-49	125.8	128.1	120.2	129	127	146	160	175	178	173	180	177	183
50-59	156	159	162	176	173	186	192	202	217	215	207	199	206
60-64	227	217	218	218	227	238	246	250	257	261	243	249	250
65-69	281	275	274	284	276	286	294	278	290	295	287	274	274
70-79	339	352	350	346	358	365	357	360	362	365	358	344	350
80+	506.5	541.7	525.8	453	502	507	509	484	509	513	469	470	474
Male	195	204.2	207.5	217.2	227.2	249	261.6	278.5	289.6	295.4	284.1	276.3	283.6
Female	182	183	189	198	212	224	236	243	257	262	262	262	270
White	201	212	218	228	246	266	278	297	313	316	317	315	327
Black	163	159	160	171	173	189	202	205	215	225	211	206	209
Other race	187.6	200.2	217.8	201.5	212.6	227.1	245	253.3	245.8	239.5	236.1	212.9	211.3
†Hispanic													
†Non-Hispanic													
Diabetes	276	282	291	307	302	323	329	338	340	329	323	311	314
Hypertension	150.4	166.1	178	189.1	208.8	225.3	230.2	250.8	264.4	271.1	267.7	266.8	269.6
Glomerulonephritis	104.7	118.4	130.8	135	146.5	155.7	171.6	190.7	213.2	206.9	213.5	208.3	214.9
Other cause	215.4	214.1	210.4	216.8	226.8	242.8	257	254	262.4	279.7	258.5	253.4	269.8
<2 years	211.1	214.6	218.9	230.6	253	271.9	280.9	295.5	307.5	307.1	298.8	291.8	300.2
2-5 years	172.2	182.7	188	200.2	202.8	225.7	242.1	252.8	267.6	276.8	269.6	268.8	276.4
5+ years	120.6	135.7	146.6	159.6	162.5	173.3	187.9	196.7	205.1	214.4	213.5	209.8	213.1
All	189	194	199	208	220	237	249	261	274	279	273	269	277
ADJUSTED													
0-19	.	.	79.7	95.4	86.5	120.6	137.8	162.5	158.6	156.2	135.9	162.8	220.6
20-44	.	.	131	131	136	146	158	177	189	191	189	181	185
45-64	.	.	189	201	202	215	221	229	237	237	227	221	224
65-74	.	.	309.8	318	314	325	326	321	321	318	307	296	298
75+	.	.	420.9	419	443	442	435	430	436	437	422	409	409
Male	.	.	257	265	267	280	283	291	298	298	285	272	274
Female	.	.	228.8	232.9	238	246.4	248.6	251.4	257	255.3	248.4	244.3	250.7
White	.	.	269.2	275	281.6	294.9	295.6	302.8	309.8	307.6	298.2	290.9	297
Black	.	.	192.3	203.8	204.3	212.1	220.5	223.7	231.9	236.7	225.2	216.5	217.7
Other race	.	.	249	241.3	249	253.5	251.1	254.5	246.9	235.7	224.4	204.2	195.2
Diabetes	.	.	313.1	324.7	326.8	338	340.4	347.2	351.4	343.3	329.6	317.3	318.8
Hypertension	.	.	196.4	201.4	211.1	222.9	223.6	232.9	241.1	246.1	240.6	236.8	240.5
Glomerulonephritis	.	.	168.6	171.1	174.5	181.8	186.1	192.7	208.9	208.7	208.4	201.1	205.8
Other cause	.	.	231.9	234.1	237.7	249.8	258.2	257.9	260.2	267.6	250.5	240.8	247.6
<2 years	.	.	256.9	260.5	269.7	282.6	284.2	288.7	295.1	291.9	278.6	266.9	271.5
2-5 years	.	.	240	245.2	244.8	257.5	263.2	270.3	279	279.3	269.1	262.7	267.4
5+ years	.	.	223.2	233.5	233.3	239.4	241.6	248.1	253.6	254.2	249.6	244	245.3
All	.	.	243.6	249.3	253.4	264.5	267.3	272.9	279.5	278.3	268.2	259.6	263.3

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

Table H.14

Annual mortality rates per 1,000 patient YAR: hemodialysis patients, never on transplant waitlist*from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis*

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	805.6	473.3	691.8	267.6	101.9	610.8	329.4	317.1	219.2	105.8	315.7	
5-9	110.5	367.6	229.5	226.2	82.8	208.2	132.4	68.2	50.4	90.2	357.8	190.6
10-14	119.2	106.4	80.1	57.6	58.4	154.5	175.2	89.7	48.4	104.4	140.1	40.6
15-19	121.9	79.5	73.3	98.9	109.3	71.6	93	94.2	79.9	67.3	104	79.3
20-29	146.1	130	129.2	136.8	130.1	108.8	110.9	103.5	116.8	118.7	109.7	98.8
30-39	171.5	168.1	167.5	164.2	148.9	147.2	154.9	143.9	147.2	144.7	137.3	117.5
40-49	173	169	172	165	169	166	171	164	171	170	167.1	150.2
50-59	206	206	207	204	202	204	216	209	213	213	209.9	197.8
60-64	245	241	243	240	237	244	256	249	250	246	259.9	241.1
65-69	274	273	269	273	275	280	285	282	288	285	285.4	276.3
70-79	352	334	338	342	337	342	353	348	350	349	344.4	342.8
80+	471	464	465	467	476	483	503	490	490	490	482.2	471.7
Male	283.7	279.1	281.3	283.9	280.8	285.9	296.4	290.5	295.2	294.5	294.6	286.2
Female	273	268	273	275	280	285	299	294	299	300	297.4	284.2
White	329	320	324	328	328	335	346	341	344	347	345.5	333.3
Black	214	212	217	216	216	219	232	226	234	228	229.4	221.4
Other race	199.7	223.3	225.8	242.7	245.8	249.1	262.9	257.1	251.8	252	244.8	234.3
†Hispanic				243	253	259	265	257	258	258	259.7	242.2
†Non-Hispanic				283.1	283.2	288.6	301.4	296.8	302	302.1	300.8	291.3
Diabetes	308	296	299	302	297	304	319	308	313	308	307	292.9
Hypertension	277.3	275.7	276.6	272.8	278	283.8	291.5	290.3	292.5	294.7	291.1	285.6
Glomerulonephritis	215.6	210.3	222	217	220	220	227	222	224	231	225.4	207.7
Other cause	269.7	268.3	268.5	281.4	284.5	285.7	295.4	296.9	303.2	307.7	312.4	304.6
<2 years	295.5	286	282	288	285	294	307	300	304	301	299.4	285.9
2-5 years	280.9	280	288	284	282	284	293	288	290	293	290.2	280.3
5+ years	226.9	229.1	246.3	247.4	262.2	265.2	276.4	277.2	288.5	290.6	295.5	291.6
All	278	274	277	279	280	286	298	292	297	297	295.9	285.3
ADJUSTED												
0-19	218.6	181.5	152.8	128	123.5	126.3	133.7	128.7	109.5	98.1	128.2	105.5
20-44	182	176	177	174	171	168	171	164	162	164	163	148
45-64	223	217	218	216	215	215	224	219	222	223	224	212
65-74	296	289	292	294	294	298	307	301	305	307	307	300
75+	410	399	408	414	413	418	435	425	431	429	425	419
Male	271	263	264	264	260	261	268	261	263	262	262	252
Female	250.7	244.7	247	245.8	247.6	249.6	259.7	253.6	256	257.3	256.6	244.6
White	295.5	284.8	285.2	283.1	280.8	282.9	291.6	284.3	285.2	286.4	285.7	273.5
Black	218.9	214.5	217.7	217.7	215.9	215.1	224.2	218.2	223.8	221.4	221.8	214.4
Other race	187.1	193	199	205.9	205.1	209.6	222.4	218.3	216.5	212.9	208.2	197.1
Diabetes	313.9	301.6	303.3	303.9	299.2	299.8	311	299.9	301.6	297.6	295.4	280
Hypertension	243	237.6	240.4	234.7	233	235.6	242.7	238.2	239.4	240.7	240.2	232.5
Glomerulonephritis	204.1	197.3	201.5	199.6	200.5	199.9	206	200.1	202.9	207.7	206.5	194.9
Other cause	249	247.6	246.1	251.9	251.3	253.7	262.8	260.3	265.4	267.9	271.4	265.5
<2 years	266	255.6	250.4	249.5	244.9	246.9	256.1	249.2	250.7	249.2	247.9	235.9
2-5 years	267.3	261.2	264	260.8	255.8	254.2	260.3	252.1	251.6	251.6	249.3	238.5
5+ years	248.4	245.9	257.4	260	266.8	270.9	281.4	276.4	282.8	285.3	287.7	280.3
All	261.7	254.6	256.2	255.6	253.9	255.4	264.1	257.3	259.6	259.6	259.1	248.5

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates Reference cohort is 2001 prevalent ESRD patients.

Mortality rates for prim Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for age Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for gen Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for race Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for vint Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Includes all patients w Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Patient age is determin Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patients of unknown a Patient age is determined on January 1 of each calendar year.

†CMS began collecting Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

Table H.15
Total patient deaths: hemodialysis patients, on transplant waitlist

by demographic characteristics, primary diagnosis, & patient vintage

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	.	.	*	.	.	.	.	.	.	.	*	*	*	.	.	.	.
5-9	.	.	.	.	.	.	*	.	.	.	*	.	.	*	.	.	.	.
10-14	*	*	*	.	*	.	.	*	.	.	.	*	*	.	.	*	*	.
15-19	.	*	.	*	*	*	.	*	*	*	*	*	*	*	*	*	*	*
20-29	*	12	13	18	16	19	18	29	24	26	34	38	41	38	48	42	52	63
30-39	12	23	34	58	64	63	63	67	81	110	114	130	149	126	157	142	171	217
40-49	13	34	47	57	63	64	116	108	154	180	205	215	275	303	296	323	369	494
50-59	18	34	59	58	74	69	96	156	152	181	259	306	342	458	529	548	668	805
60-64	.	*	17	27	26	33	35	39	59	76	112	142	161	223	259	279	344	459
65-69	*	*	*	14	14	11	20	37	56	77	100	83	128	151	195	219	291	391
70-79	*	*	*	*	*	*	14	17	21	35	40	56	83	94	115	155	223	297
80+	.	.	.	.	*	.	.	.	*	*	*	.	*	.	*	*	12	14
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	25	49	68	110	111	113	132	143	177	212	239	270	300	298	319	330	358	486
45-64	25	63	102	108	132	135	196	256	293	361	485	561	668	850	970	1,004	1,246	1,552
65-74	*	*	*	19	14	15	32	51	75	111	130	130	189	229	285	338	467	619
75+	.	*	.	.	*	*	*	*	*	*	12	*	23	16	33	45	59	83
Male	30	81	105	155	157	165	218	270	321	405	507	563	720	816	956	1,008	1,315	1,557
Female	24	50	77	85	107	100	145	186	232	285	363	411	467	580	652	716	820	1,185
Unknown																		
White	37	79	121	164	180	184	235	278	336	422	496	583	699	781	903	983	1,210	1,551
Black	14	48	54	70	76	75	108	162	192	238	320	320	427	522	594	631	765	1,007
Native American	.	.	*	*	*	.	*	*	*	19	14	*	14	16	20	29	39	
Asian	*	*	*	*	*	*	13	*	18	18	32	49	38	59	83	64	100	122
Other/unknown	*	*	*	.	.	.	*	.	.	*	*	*	13	20	12	26	31	23
†Hispanic	.	.	.	.	.	.	.	.	.	57	80	126	148	146	210	244	293	390
†Non-Hispanic	.	.	.	.	.	.	.	.	.	633	790	848	1,039	1,250	1,398	1,480	1,842	2,352
Diabetes	18	36	57	79	91	92	151	159	189	263	349	455	525	628	766	817	977	1,261
Hypertension	*	24	26	49	48	52	64	111	121	157	209	190	246	304	354	378	444	587
Glomerulonephritis	*	31	40	57	54	50	71	83	109	134	142	144	190	215	225	235	334	390
Cystic kidney	*	*	*	*	16	*	15	11	30	27	35	30	33	55	49	59	84	85
Other urologic	*	*	*	*	*	*	*	*	*	*	*	22	22	37	30	47	51	61
Other cause	*	19	27	23	31	41	48	60	68	74	105	110	141	119	150	160	190	279
Unknown cause	.	*	13	*	*	12	11	19	24	23	18	23	30	35	33	28	53	76
Missing disease	*	14	*	*	*	*	*	*	*	*	*	.	.	*	*	.	*	*
<2 years	18	34	58	63	73	84	113	139	149	180	219	261	273	308	339	306	321	412
2-<5 years	14	49	58	88	88	83	140	154	194	260	326	359	466	551	710	782	891	1,054
5+ years	22	48	66	89	103	98	110	163	210	250	325	354	448	537	559	636	923	1,276
All	54	131	182	240	264	265	363	456	553	690	870	974	1,187	1,396	1,608	1,724	2,135	2,742
All with unknowns dropped	52	126	168	233	255	253	350	437	529	665	849	943	1,144	1,341	1,564	1,671	2,052	2,643

The incident cohorts are determined at the time of ESRD initiation without applying the 60-day stable modality rule.

The age of the incident patient is determined as of the date of ESRD initiation.

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Table H.16

Annual mortality rates per 1,000 patient YAR: hemodialysis patients, on transplant waitlist

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	.	.	452	.	.	.	.	.	.	192	200	162	199	.	.	.	.
5-9	.	.	.	.	.	.	44	.	.	.	.	.	.	71	.	.	.	.
10-14	45	117	67	.	53	.	.	25	21	.	.	48	93	.	30	68	23.7	.
15-19	26	37	.	17	8	8	.	16	27	32	22	13	19	19	14	25	27.5	19.5
20-29	18	19	19	25	21	21	17	27	23	24	26	26	28	23	29	27	29.3	32.4
30-39	23	24.6	31.5	45.3	45.3	43.6	35.6	34.6	35.6	45.2	45.2	43.3	46.9	37.5	39.5	35.2	38.7	48.2
40-49	32.3	44.7	48.2	41.1	40.7	38.9	56.1	43.2	53.9	54.3	57.2	53.7	61.2	58.8	52.8	52.5	54.3	69.7
50-59	48.3	53.2	84.7	69.3	70.5	52.7	60.6	82.7	67.2	64.5	82.4	79.5	74.4	87.6	82	74.6	78.2	88.1
60-64	14.8	64.2	92	113	92.8	89.2	81	62.4	81.7	85.5	95.9	100.7	98.8	113.6	100.8	91.2	99.9	122.5
65-69	62.5	145.6	101	107.9	102.1	73.3	75.4	114.8	114.6	132.7	137.4	92.1	108	112.2	106.3	97.9	112.1	134.8
70-79	275	453.2	75.9	190.1	84.7	44.7	152.8	132.8	137.7	169.3	142.3	157.2	164.5	126.8	123.8	136.7	161	166
80+	.	.	.	.	906.3	.	.	.	384.1	343.1	301.1	.	115.3	.	387.6	225.1	157.9	207.9
Male	29.8	43.5	48.6	55.5	49.4	46.8	49	52.4	53.1	58.1	63.1	61.2	68.9	68.5	68.8	65.1	74.7	82.4
Female	28.8	34.7	45.1	42.4	47.1	37.7	47.3	50.9	55.8	59.3	69.4	65.8	65.7	72.3	67.7	66.5	67.6	91.4
White	33.3	38.7	53.3	57.7	58.3	53.5	57	58.6	63.2	69.7	74.2	74.4	80.4	78.6	77.5	75.7	83.6	98.4
Black	21.5	43	38.2	41.1	36.9	30.8	36.1	45.3	44.5	47.7	55.6	49.1	56.2	61	59.1	56.4	60.7	75.9
Other race	42.4	27.5	34.2	23.8	22.8	19.2	47.3	33	40.9	38.3	62.4	64.1	45.3	64.7	59.7	52.6	59.3	65.3
†Hispanic	.	.	.	.	.	.	.	.	.	42.6	48.8	62	63.2	50.8	61.2	59.7	62.6	74.2
†Non-Hispanic	.	.	.	.	.	.	.	.	.	60.6	68	63.2	68.3	73.2	69.6	66.7	73.5	88.4
Diabetes	89.8	81.3	109.2	107.1	105.5	85.4	102.9	94	91	103.6	113.3	119	117.7	115.7	113.9	104	105.6	123.6
Hypertension	26.3	36.4	30.9	46.7	36.6	35.8	35.2	48.9	46	52.4	62.1	51.6	55.5	62.6	60.4	57.9	60.6	74.5
Glomerulonephritis	14.2	27.5	30.1	36.2	31.1	27.2	32.5	32.9	36.9	39.1	39.1	33.6	40.7	42	40	39.7	50.2	57.7
Other cause	30.4	38.1	49.3	38.3	46.1	39.4	38	43.7	51.8	47.2	53	50	56.1	55.6	49.5	50.1	58.9	73.1
<2 years	35.6	32.1	42.4	35.8	37	38.9	41.2	45.5	43.8	49.5	53.1	54.8	53	53.3	52.5	47.2	46.2	56.7
2-5 years	23.1	49.4	50.7	62	54.4	45.1	59	57	60	63	70	65	71.6	73.4	77.8	74.8	75.8	85.4
5+ years	30.2	38.2	48.5	54.2	54.5	45.3	45.6	54	59.1	62.5	73.2	69	75.7	80.4	70.3	68.3	83.8	104.1
All	29.3	39.6	47	49.9	48.4	43	48.3	51.8	54.2	58.6	65.7	63	67.6	70.1	68.4	65.7	71.8	86.1
ADJUSTED																		
0-19	.	.	65	83	52	29	14	17	28	36	40	52	74	56	47	53	48	39
20-44	.	.	46	54	53	47	46	44	45	50	55	57	58	55	49	47	46	56
45-64	.	.	96	85	82	67	79	80	77	77	85	82	85	88	82	73	76	88
65-74	.	.	151	132	96	70	96	118	128	149	156	126	127	123	113	104	117	138
75+	.	.	167	60	383	161	227	132	156	108	190	139	183	136	132	142	153	172
Male	.	.	117.5	87.4	136.1	89.9	116.8	96.9	104.4	94.6	111.2	95.9	110.4	96.9	92.1	85	93.6	104.6
Female	.	.	106	76.5	98.2	57.7	76.5	80.3	78.4	86.7	104.1	93.8	93.3	90.7	83.5	81.1	83	100.6
White	.	.	144.5	99.8	142.7	92.4	122	110.6	103.1	104.6	119.2	108.5	118.1	104.9	97.2	90.8	98.7	113.1
Black	.	.	53.9	59.2	81.2	46.4	50.9	52.9	67.5	70	92.3	71.1	78.8	75.9	73.9	72.1	72.9	86.7
Other race	.	.	69.7	68.2	38	32.3	87.4	65.8	119.4	70.6	86.6	89.1	79.6	81.7	73.4	62.4	68.3	84.8
Diabetes	.	.	167.1	114.2	158.3	101.3	153.4	136.8	125.1	124.5	144.7	127.8	139.8	134.6	121.6	113.4	116.6	131
Hypertension	.	.	82.8	72.6	89.9	59.8	69.8	68.2	77.2	81.3	101.7	94.4	96.9	80.8	79.1	73.7	78.6	93.9
Glomerulonephritis	.	.	61.5	57.7	107.9	64.1	63.7	62	74.2	72.3	85	67	69	64	58.8	60.1	70.3	82.5
Other cause	.	.	98.7	77.8	112.8	69.2	68.6	59.3	71.5	63.6	73.1	65	80.9	72.5	70	65.3	72.3	86.5
<2 years	.	.	84.8	52.6	79.9	54.5	72.9	69.6	67.9	67.9	78.7	70.7	74.3	66.4	62.4	58.5	59.4	68.6
2-5 years	.	.	119.8	96.2	136.2	80.5	113.1	95.2	98.7	94.3	110.6	93	103	93	93.1	91.1	96.2	106.8
5+ years	.	.	155.9	118.6	181.4	107.9	134.3	121.7	127.2	128.6	161.2	143.1	158.1	144	129.1	118.3	133.3	159.3
All	.	.	110.9	82.8	118.5	75.1	98	89.3	91.3	90.8	107.9	95	103	94	88	82.9	88.4	102.6

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

"." Zero values in this cell.

Table H.17

Total patient deaths: hemodialysis patients, returned to dialysis from transplant

by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-4	.	.	.	.	.	.	.	*	.	.	*	.	.	.	.	.	.	.	.	.	.	.	.	*	.
5-9	*	*	.	*	.	.	.	.	.	.	.	.	*	*	.	.	.	.	*	*	.	.	*	*	.
10-14	*	*	*	*	.	*	*	.	*	*	*	*	*	*	*	*	*	*	*	*	.	.	*	*	.	
15-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	17	28	20	23	34	25	30	38	45	53	56	58	64	43	48	49	54	48	54	55	71	77	73	68	61	
30-39	31	29	43	46	68	84	93	118	120	142	133	159	150	154	158	171	183	178	180	179	185	216	187	172	170	
40-49	24	32	39	49	61	81	83	122	142	152	199	205	213	234	215	259	298	366	324	372	412	432	426	455	442	
50-59	25	25	34	55	62	57	96	98	124	117	163	181	188	196	258	277	265	298	365	416	417	486	524	553	582	
60-64	*	*	*	*	*	31	25	23	34	43	56	51	69	84	91	91	101	128	154	163	171	204	192	228	254	
65-69	.	*	*	*	*	*	11	*	25	22	26	34	30	68	56	91	78	88	112	115	158	152	146	176	196	
70-79	*	.	.	.	.	*	*	*	*	11	11	16	23	28	33	36	56	63	86	83	112	133	156	143	167
80+	*	.	.	.	.	*	.	.	.	.	.	*	*	*	*	*	*	*	*	*	*	*	12	*	12
0-19	*	*	*	*	*	*	*	*	11	*	*	*	*	*	*	*	*	*	*	*	11	*	*	*	*	*
20-44	62	73	80	93	134	147	157	217	237	275	285	323	315	316	295	334	379	401	390	387	440	478	474	425	427	
45-64	43	45	61	85	99	131	170	182	228	232	322	331	369	395	475	513	522	617	687	798	816	937	928	1,051	1,082	
65-74	*	*	*	*	*	13	16	11	28	31	35	47	46	86	77	120	116	130	172	173	234	246	258	280	321	
75+	*	.	.	.	.	*	.	*	.	*	*	*	*	15	19	13	19	22	29	28	41	45	56	46	54
Male	73	88	93	113	156	212	238	283	314	344	422	441	482	489	520	565	646	689	759	846	908	1,032	1,010	1,033	1,126	
Female	39	38	56	70	89	86	110	135	190	202	231	272	263	332	355	421	400	488	525	551	627	682	716	777	762	
Unknown																										
White	87	93	109	120	181	210	224	258	329	362	423	442	487	534	525	620	687	734	816	845	947	1,077	1,067	1,099	1,128	
Black	21	30	34	53	59	82	111	144	165	173	210	252	240	270	326	344	330	411	435	510	534	584	599	639	691	
Native American	.	.	.	*	*	.	*	*	*	*	*	11	*	11	11	*	*	12	11	20	11	19	19	20	20	
Asian	.	.	.	.	*	*	*	*	*	*	12	*	*	12	11	20	23	21	31	33	41	41	41	51	48
Other/unknown	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.	.	.	.	.	*	*	.	*	*
†Hispanic																	73	83	102	120	118	142	148	143	151	
†Non-Hispanic																	973	1,094	1,182	1,277	1,417	1,572	1,578	1,667	1,737	
Diabetes	19	14	26	37	42	52	56	81	98	113	139	141	165	188	191	201	246	257	320	355	391	416	421	451	483	
Hypertension	*	*	20	28	33	49	53	56	89	98	124	152	154	193	234	242	240	283	287	357	343	393	405	414	460	
Glomerulonephritis	24	23	35	42	60	67	101	113	135	141	187	216	183	224	218	278	283	336	338	357	433	475	455	522	520	
Cystic kidney	*	*	*	*	11	16	17	19	28	24	33	38	43	34	44	55	72	88	85	88	93	108	94	101	116	
Other urologic	*	*	*	*	*	*	*	11	*	*	*	15	23	22	23	23	27	39	38	53	60	80	64	54	54	
Other cause	*	13	12	13	24	33	48	53	74	72	99	116	127	123	126	138	140	157	174	174	189	220	236	215	212	
Unknown cause	*	15	14	*	26	23	21	28	30	43	40	23	37	25	34	47	40	29	39	27	32	42	35	43	42	
Missing disease	38	44	36	45	47	50	50	57	42	49	27	20	21	11	*	*	*	.	*	*	*	.	.	.	*	
<2 years	25	20	18	15	20	18	11	14	28	31	24	29	28	22	23	15	16	*	*	*	*	11	*	14	*	
2-<5 years	66	79	95	78	84	105	106	138	123	136	156	153	153	134	150	114	134	107	124	127	112	120	107	114	118	
5+ years	21	27	36	90	141	175	231	266	353	379	473	531	564	665	702	857	896	1,060	1,152	1,262	1,413	1,583	1,612	1,682	1,764	
All	112	126	149	183	245	298	348	418	504	546	653	713	745	821	875	986	1,046	1,177	1,284	1,397	1,535	1,714	1,726	1,810	1,888	
All with unknowns dropped	100	110	131	166	217	274	321	384	470	501	611	686	706	794	840	939	1,006	1,148	1,245	1,370	1,502	1,671	1,691	1,765	1,845	

The age of patient is determined as of the date of death.

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Table H.18

Annual mortality rates per 1,000 patient YAR: hemodialysis patients, returned to dialysis from tx

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
0-4	.	.	.	.	.	.	.	365.3	.	.	181.5	373.3	.	.	.	.	.
5-9	423.9	103.3	.	65.3	.	.	.	.	.	.	.	.	71.6	42	.	.	.
10-14	36.1	81.1	40.8	15.8	.	19.1	60.8	.	80.3	34.3	54.3	55	31	13.9	29	44.6	64.4
15-19	31.8	27.8	16.1	28.6	47.7	37.7	35	60.1	29.2	25.4	28.7	29.2	46	57.6	47.9	37.6	41.4
20-29	51	75.9	49.4	40.3	51.8	35.1	36.8	44.3	45.1	54.3	47.6	53.4	52.6	37.1	47.2	41.6	40.1
30-39	83.1	63.3	73.4	70	68	79	76.2	81.7	83	79.6	78.5	76.9	71	73.2	61.3	64.4	71.3
40-49	91.4	80	96.1	86.9	77.4	90	86.5	107.2	119.5	101.3	104.9	100.5	93	95.5	84.5	98.7	99
50-59	158.8	95.4	105.8	129.6	119.8	95.7	159.8	133.3	140.6	118.3	156.4	144.8	139.3	133.4	145.9	149.8	136.9
60-64	262.1	120.6	95.1	74.3	123.7	249.2	177.4	171.3	171.9	174.7	193.1	158.5	182.4	193.8	179.7	179.1	173.2
65-69	0	425.2	493.7	75.4	269.5	399.7	321.8	121.6	329.1	197.9	220.3	210.4	156.9	319.6	193.5	298.8	231.6
70-79	.	.	.	0	0	414.3	500	296.4	145.4	412.9	238	291.4	344.5	265.6	270.6	267.8	252.4
80+	.	.	.	.	0	.	.	.	.	.	.	.	414.6	404.6	602.9	1142.6	172.1
Male	88	81.3	74.7	70.7	72.3	89.9	95.2	98.5	100.9	91.8	101.5	98.4	100.6	94.9	91.3	93.3	100.5
Female	89.4	64.2	74.7	75.9	79.1	61.3	71.9	76.4	91.4	87.8	90.8	92.2	81.7	99.5	93.9	111.5	96.1
White	99.1	80.3	83.7	71.4	82.5	86.5	89	87.3	100.5	97.8	102.3	98.6	103.9	106.1	94.4	110.6	115.6
Black	60.5	66.1	53.5	68.9	61.6	66.8	77.9	93.6	93.3	79	87.9	92.2	77.7	84.2	89.8	87.8	74.8
Other race	94.2	51.4	79.3	127.5	40.8	64.3	127.1	113.5	67.4	57.9	111.9	89.8	73	65.9	83.7	61.5	80
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	75.3
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	101.2
Diabetes	275.3	162.6	240.6	237.4	192.7	208.5	200.2	229.8	232.3	217.1	246.1	217.5	221.4	224.3	194.1	209.4	231.1
Hypertension	54.4	45.4	65.1	65.1	62.2	73.5	76.7	66.5	84.5	80.7	91.4	95.2	87.5	103	110.2	107.2	96.9
Glomerulonephritis	52	34.2	47	45.4	47.6	46	61.2	60.9	69.1	66.2	74	78.9	64.6	73.5	63	76.3	74.5
Other cause	105.8	112.1	81.9	75.5	89	95.4	98.2	105.6	106.6	93.5	92	85.2	96.5	84.1	85.1	91.8	88.9
<2 years	87.4	91.2	84.9	58	67.1	91.3	58.3	61.1	98.3	109.5	87.5	108.5	139.6	97.8	113.3	91	105.6
2-5 years	80.7	69.8	81.8	70.6	71.9	81.9	87.9	120.6	104.6	93.8	104.4	100.3	100.5	96.9	107.7	84.5	101.8
5+ years	126.4	84.6	56	77.2	77.7	77.3	87.7	81.7	95.1	88.2	96.1	94.5	90.5	96.6	89.6	102.7	98.3
All	88.5	75.4	74.7	72.6	74.7	79.5	86.5	90.1	97.3	90.3	97.4	96	93.2	96.7	92.3	100.4	98.8
ADJUSTED																	
0-19	.	.	.	.	.	.	54.8	61	71.2	62.4	61.4	82.8	98.6	92.1	72.1	64.7	99.9
20-44	.	.	.	.	.	.	92.7	93.2	105.7	103	104.8	104.8	101.4	96.4	86.3	90.2	97.2
45-64	.	.	.	.	.	.	148.4	157.7	156.9	148.5	170.5	155.7	162.3	152.9	158.5	150.5	146.5
65-74	.	.	.	.	.	.	361	223.6	289.3	230.1	269.5	219.5	189.8	270.1	269.8	292.2	224
75+	.	.	.	.	.	.	547.3	683.9	185.7	303.3	299.4	251.8	400	392.5	533.4	485.4	434
Male	.	.	.	.	.	.	328.6	298.6	213	191.8	205.5	192.9	225	205.1	240.2	228.6	206.9
Female	.	.	.	.	.	.	154	186.5	152.8	172	204.6	161.4	161.1	194.3	222.2	215.8	188.9
White	.	.	.	.	.	.	304.1	292.8	215.7	212.4	239.3	207.4	222.6	223.1	267.9	253.9	221.7
Black	.	.	.	.	.	.	124.1	152	125.7	128.9	147.8	131.5	148.9	181.4	181.3	171.5	161.6
Other race	.	.	.	.	.	.	145.3	192.2	160.4	183.9	176.5	124.4	149.6	147.6	137.3	174.7	138.5
Diabetes	.	.	.	.	.	.	390.5	368.3	250.6	241.8	296.1	221.9	232	265.7	318	305.8	240
Hypertension	.	.	.	.	.	.	141.7	187.8	151.5	140.4	167.2	177	189.2	175.4	196.4	183.4	188.9
Glomerulonephritis	.	.	.	.	.	.	129	143.6	115	135.6	117	143.8	157.1	161.6	156.3	170	153.7
Other cause	.	.	.	.	.	.	235.3	197.7	166.4	184	150.9	129.4	156.4	147.6	160.8	162.9	168
<2 years	.	.	.	.	.	.	205	178.6	142.3	161.9	175.1	158.8	186.4	181.4	217.5	203.7	182
2-5 years	.	.	.	.	.	.	267.4	321.2	218.4	195.9	219.5	182.8	193.3	203.4	239.4	213.6	192.8
5+ years	.	.	.	.	.	.	309.4	296.3	214.8	201.6	244.2	205.4	215	239.1	255.7	267.3	231.7
All	.	.	.	.	.	.	244.8	243.9	182.3	181.5	204.3	177.4	195.4	201.6	232.3	221	197.1

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

." Zero values in this cell.

Table H.18

Annual mortality rates per 1,000 patient YAR: hemodialysis patients, returned to dialysis from tx*from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis*

UNADJUSTED	1997	1998	1999	2000	2001	2002	2003	2004
0-4	586.3	.	.	.	822.6	200.1	386.9	.
5-9	.	58.5	.	113.3	269.3	.	105.2	.
10-14	12.8	66.7	178.2	.	.	119.9	46.4	.
15-19	23	36.6	19.2	24.7	37.9	36.7	47.5	19.9
20-29	40.1	44.8	38.5	50.7	66.2	47.1	62.2	50.4
30-39	69.9	65.3	65.9	72.2	74.9	65.9	53.1	58.2
40-49	113.8	98.2	107.5	112	117.6	115.1	115.9	107.6
50-59	145.7	161.3	168.4	159.4	164.7	166.6	160.3	163.1
60-64	204	216.4	233.3	209.4	236.9	224	236.3	241.2
65-69	238.7	301.3	236.5	318.3	279.6	224.5	259.5	266.3
70-79	318.2	338.4	314.5	356.1	356.6	392	320.2	342.8
80+	208.2	501.7	564.8	498.8	578.8	897.6	349.9	486
Male	103.6	108.1	114.6	118.5	130.2	118.3	116.9	122.7
Female	115.1	114.9	114.8	124.4	128.5	133.9	135.1	129.3
White	120.7	124.7	123.5	134	145.5	140.5	137.2	137.1
Black	92.1	92.8	104	102.6	109.4	104.4	107.8	111.4
Other race	78	82.6	91	110.2	101.1	97.5	101.6	99
†Hispanic	71.4	82.3	91.4	83.8	100.4	102.4	86.6	85.6
†Non-Hispanic	111.9	113.8	117.3	125	132.9	127	128.5	130.3
Diabetes	220.5	248.4	258.2	264.8	264.4	250.2	235.7	244
Hypertension	109.6	105	128.3	113.8	127.9	122	123.7	131.1
Glomerulonephritis	84.1	78.4	80.4	96.4	97.7	93	101.7	97.1
Other cause	99.7	108.1	97	104.5	120.8	118	106.8	106.7
<2 years	70.6	87.9	97.3	125.7	141.4	79.9	193.6	87
2-5 yrears	91.8	105.9	122.6	116.6	134	118.9	128.5	134.8
5+ years	110.2	111.3	114.2	121	129.2	125.1	123.5	125
All	108	110.7	114.7	120.8	129.5	124.5	124.1	125.3
ADJUSTED								
0-19	67.3	63.7	73.0	80.8	98.2	86.3	109.3	55
20-44	92.3	89.2	87.6	96.2	106.6	92.3	100.7	90.8
45-64	139.6	142.8	152.5	165.2	178.5	148.6	172.9	158.5
65-74	217.4	258.0	248.6	278.1	286.4	238.7	260.9	254.9
75+	352.8	411.5	375.3	361.1	405.3	370.4	329.2	307.8
Male	182.9	200.3	194.8	209.2	234.5	197.7	204.6	191.3
Female	166.5	191.6	185.4	197.3	200.3	173.4	197	183.4
White	187.9	217.3	209.1	223.5	241.0	201.5	217.5	200.5
Black	157.0	171.8	166.5	170.3	184.0	163.8	174.2	163.2
Other race	137.8	139.7	159.9	169.2	165.9	137.9	148.6	147.4
Diabetes	216.7	262.2	259.4	261.9	273.8	233.1	239.2	230.5
Hypertension	158.4	171.9	163.4	168.0	179.3	155.1	179.1	167.4
Glomerulonephritis	144.4	130.1	120.5	149.1	173.5	144.0	172.1	150.2
Other cause	152.6	156.5	161.1	190.1	218.3	180.7	178.6	153.9
<2 years	143.2	155.9	146.7	173.4	198.3	145.9	196.9	160.4
2-5 yrears	174.7	208.9	211.8	209.6	218.1	197.7	188.7	197.4
5+ years	229.6	262.5	252.6	252.8	254.4	243.2	220.5	224.1
All	173.9	196.3	191.1	203.4	218.0	185.2	200.6	187.3

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

." Zero values in this cell.

Table H.19

Total patient deaths: CAPD/CCPD patients

by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-4	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14	*	*	*	*	*	*	11	
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
10-14	.	.	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
15-19	.	*	*	*	*	*	*	*	11	*	*	*	*	*	11	15	*	*	*	12	*	*	*	*	*	
20-29	*	*	14	26	36	38	54	39	65	63	57	69	63	66	88	71	76	62	64	62	43	47	47	64	51	
30-39	*	23	53	58	97	142	177	183	209	219	205	232	287	317	324	327	303	285	221	212	201	174	200	146	150	
40-49	13	25	55	111	167	194	279	267	298	296	357	395	512	546	574	635	639	589	544	491	462	449	445	401	413	
50-59	23	46	121	198	265	392	445	474	542	544	560	650	744	824	914	1,025	1,037	1,038	1,001	926	886	853	801	811	790	
60-64	11	27	85	147	220	279	372	404	444	457	505	559	600	707	674	696	775	756	713	628	590	551	511	510	540	
65-69	*	37	88	166	192	296	387	465	544	525	586	718	787	905	906	1,023	1,015	973	887	765	760	739	661	637	602	
70-79	19	38	128	219	258	399	521	631	730	763	868	996	1,229	1,393	1,628	1,698	1,847	1,697	1,667	1,566	1,475	1,346	1,294	1,253	1,263	
80+	*	*	32	57	64	95	129	148	190	216	233	284	334	388	465	554	577	596	545	509	507	528	536	577	563	
0-19	*	*	*	12	19	24	15	17	23	22	24	28	26	20	26	31	31	30	21	29	21	23	21	26	22	
20-44	16	41	93	130	220	270	347	345	407	428	424	495	585	622	675	680	650	598	516	474	438	410	421	366	359	
45-64	42	84	235	410	565	775	980	1,022	1,151	1,151	1,260	1,410	1,621	1,838	1,899	2,074	2,180	2,132	2,027	1,845	1,744	1,664	1,583	1,566	1,585	
65-74	22	59	165	300	350	538	706	834	964	968	1,087	1,297	1,519	1,687	1,873	2,052	2,081	1,956	1,812	1,636	1,593	1,473	1,352	1,312	1,286	
75+	16	22	83	142	164	252	331	410	500	536	600	701	831	999	1,126	1,223	1,358	1,310	1,287	1,204	1,149	1,140	1,139	1,155	1,142	
Male	50	112	322	487	737	980	1,340	1,422	1,666	1,702	1,870	2,169	2,592	2,786	3,014	3,309	3,416	3,214	2,992	2,705	2,614	2,493	2,370	2,423	2,405	
Female	47	98	261	507	581	879	1,039	1,206	1,379	1,403	1,525	1,762	1,990	2,380	2,585	2,751	2,884	2,812	2,671	2,483	2,331	2,217	2,146	2,002	1,989	
Unknown																										
White	79	180	468	793	1,063	1,491	1,935	2,108	2,467	2,517	2,705	3,116	3,662	4,101	4,395	4,668	4,794	4,651	4,349	3,954	3,751	3,571	3,452	3,312	3,284	
Black	15	29	106	186	230	321	396	478	504	528	603	745	831	953	1,065	1,229	1,268	1,128	1,078	978	943	913	850	862	876	
Native American	*	.	*	*	11	23	21	27	42	38	46	39	43	52	64	57	72	59	58	61	46	46	44	61	51	
Asian	.	.	*	*	18	19	*	22	17	37	29	46	60	73	101	146	141	122	144	145	137	135	150	141		
Other/unknown	*	*	*	*	*	*	*	*	*	*	*	*	*	.	.	*	*	20	47	56	51	60	43	35	40	42
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	364	468	473	412	425	469	424	452	429
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5,936	5,558	5,190	4,776	4,520	4,241	4,092	3,973	3,965
Diabetes	41	78	200	363	419	612	830	959	1,053	1,094	1,349	1,577	1,880	2,215	2,455	2,669	2,912	2,891	2,769	2,505	2,377	2,289	2,183	2,077	2,059	
Hypertension	19	37	134	230	265	451	491	588	721	759	857	1,041	1,233	1,433	1,510	1,666	1,608	1,509	1,339	1,219	1,184	1,181	1,045	1,100	1,110	
Glomerulonephritis	*	23	79	110	160	251	338	359	451	480	488	507	602	593	693	700	765	702	673	639	549	493	491	497	453	
Cystic kidney	*	*	11	37	61	66	90	95	107	116	104	111	125	154	146	181	152	160	151	132	122	110	119	99	100	
Other urologic	*	*	19	28	38	45	68	72	80	73	75	88	97	89	102	101	126	127	110	119	131	121	119	98	131	
Other cause	16	21	47	98	135	176	245	272	295	275	318	374	423	491	489	548	548	459	445	417	422	374	397	405	391	
Unknown cause	*	25	54	80	81	118	145	137	178	156	122	167	168	152	167	182	175	172	172	154	155	138	155	144	139	
Missing disease	*	12	39	48	159	140	172	146	160	152	82	66	54	39	37	13	14	*	*	*	*	*	*	*	11	
<2 years	92	190	502	832	935	1,280	1,506	1,684	1,890	1,908	2,131	2,447	2,808	3,092	3,268	3,361	3,401	3,165	2,850	2,574	2,425	2,321	2,194	2,184	2,067	
2-<5 years	*	18	66	118	272	424	614	645	787	817	849	1,012	1,216	1,475	1,644	1,970	2,027	2,031	1,949	1,753	1,672	1,561	1,483	1,463	1,498	
5+ years	*	*	15	44	111	155	259	299	368	380	415	472	558	599	687	729	872	830	864	861	848	828	839	778	829	
All	97	210	583	994	1,318	1,859	2,379	2,628	3,045	3,105	3,395	3,931	4,582	5,166	5,599	6,060	6,300	6,026	5,663	5,188	4,945	4,710	4,516	4,425	4,394	
All with unknowns dropped	87	184	525	912	1,229	1,735	2,228	2,484	2,857	2,944	3,269	3,762	4,414	5,014	5,430	5,873	6,106	5,807	5,436	4,983	4,731	4,529	4,328	4,243	4,213	

The age of patient is determined as of the date of death.

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	.	81.4	92.1	134	129.6	112.6	55.6	68.3	51.4	118.8	102.6	135.5	102.8
5-9	131.5	305.9	53.6	26.6	50.6	104.1	30.7	14	27.6	30.5	33.2	55.3	49.2
10-14	.	.	.	16.6	28.8	42	17.5	24.9	46.4	29.8	51.5	37.7	41
15-19	.	88.6	73.5	59.5	71.9	49.9	45.1	43.2	58.9	30.9	23.8	34.8	29.2
20-29	73.6	55.1	78.8	95.7	71.5	62.5	83.7	52.8	73.7	70.3	62.8	63.4	55.9
30-39	205.9	164.4	138.5	98.5	111.8	114.5	121.7	116	126.1	116.1	95.8	97.1	107.1
40-49	223.2	163.2	131	175.8	149	139.8	173.7	153.4	155.9	135.5	139.7	126.1	139
50-59	331.8	197.7	185.6	206	176.6	215.5	209.7	216.6	226.7	218	203.2	203.6	197.7
60-64	247.3	297.1	261.2	308.4	290.2	273.7	283.2	274.7	294	280.3	266.2	266.3	276.2
65-69	398.1	343.6	343.7	376.3	312.4	337.1	333.4	339.9	352.4	308.8	329.7	343.2	313.6
70-79	582.7	393.1	429.6	440	406.9	431.2	431.2	439.4	445.8	434.3	409.8	399	404
80+	.	299.6	566.7	653.1	602.2	704.8	629.8	569.8	714.1	650.8	574.7	579.6	583
Male	293	217.1	224.2	216.1	206.6	215.6	245.4	237.9	255.9	237.6	230.8	230.9	238.3
Female	289	214.6	199.1	256.3	196.3	222.1	213.5	221.4	232.6	217.2	209.7	209.1	205.7
White	297.4	228.1	217.3	245.2	211.7	229.8	246.3	245	266	251	242	242	250
Black	239.5	174.5	192.9	204	170.6	177.4	177.7	188.5	178.7	164.7	162	170	159
Other race	596.8	58.7	204.6	175.7	158.7	225.9	197.4	140.7	212.8	158	193.6	126.9	132.5
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
Diabetes	471.1	370.1	333.3	368.4	303	321	352	354	342	309	318	307	302
Hypertension	333.7	200.4	246.6	255.4	205.4	270	228.4	234.6	262.3	243.3	235	237.1	239.2
Glomerulonephritis	113.9	98.5	126.3	117.2	101.3	118.8	134.1	129.9	149.8	147.1	137.9	128	136.8
Other cause	265.9	209.7	173.9	206.8	208.4	193.5	218	209.5	227.9	208.6	177.6	185.9	181.6
<2 years	314.7	229.9	235.2	249.6	215.6	239	242.7	247.7	255.7	231.6	225.5	221.6	220.7
2-5 years	141.9	196.6	152.7	195.6	191.2	201.9	227.1	216	247.8	246.8	231.7	240.2	246.6
5+ years	78.1	36.8	83.4	149.2	144.7	147.9	182.5	182.3	196.3	183.2	183.5	184.1	192.7
All	291	216	212.2	234.9	201.9	218.6	230.4	230	244.8	227.9	220.8	220.6	223
ADJUSTED													
0-19	.	.	97.8	113.5	96.9	114.3	94.1	73.5	72.2	59.9	66.1	77	73.9
20-44	.	.	120	123.4	118.8	122.9	132.5	122.1	128.6	117.4	112.1	108.6	112
45-64	.	.	205	248.8	223.2	241.4	255	249	259	237	225	221	220
65-74	.	.	340.4	430.4	385.2	400.5	397.5	407.2	410.7	373.7	370.7	377.3	376
75+	.	.	513.7	583.3	531.6	583.5	603	581	601.4	586.3	552.4	563.3	523.5
Male	.	.	271.8	304.6	282.4	292	302	302	320	298	285	283	283
Female	.	.	271.4	340.4	299.6	330	329	318	321	302	289	288	275
White	.	.	284.9	341	313.5	330.7	339.2	337.7	355.5	333.9	317.2	314.7	311.2
Black	.	.	265.6	302.5	258.7	281.2	284.2	292.4	275.1	255.3	236.9	258.8	244.7
Other race	.	.	247.6	313.7	269.6	348.7	342.9	245.8	303.3	271.5	327.7	228.9	228.1
Diabetes	.	.	370.1	434.7	392.9	408	424.1	418.8	426.1	394.5	380.6	384.6	369.8
Hypertension	.	.	215.9	270.5	235.9	283.9	264.4	254	266.4	250.6	242	240.5	241.3
Glomerulonephritis	.	.	222	219.5	171	189.5	206.2	204.8	214.8	194.5	203.7	198.4	200.3
Other cause	.	.	205.3	249.8	261.2	260	285.9	276.9	294.8	270.6	246.8	246.8	243.4
<2 years	.	.	317.7	323.3	290.5	310.7	306.7	297.6	303.8	277.1	259.8	252.4	241.6
2-5 years	.	.	276.4	327	291	311.7	319.7	306.9	325.7	319.7	307.5	314.7	308.7
5+ years	.	.	176.3	311.4	292.7	312.2	338.2	343.9	355.1	326.4	324.1	325.6	327.4
All	.	.	272.3	321.6	291.2	311.4	318	311.2	322.4	301.2	288.9	287.9	281.6

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

." Zero values in this cell.

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	55	86.6	84	88.6	131.8	78.4	77.4	84.5	82	66.6	79.7	89.9
5-9	70	11.7	10.4	55.3	49.2	63.6	58.9	25.9	44.3	10.9	42.5	45.8
10-14	34.9	29.1	47.7	48.1	35.5	5.9	37.6	13.8	19.5	32.3	31.6	30.1
15-19	12.8	43.7	45.3	23.8	22.7	27.9	50.1	45.5	43.2	32.9	35.8	12.4
20-29	52.9	65.3	57.6	58.2	51.2	49.6	60.2	39.7	41.6	46.2	64.8	53.8
30-39	107	100.7	95.9	91.6	92.6	85.4	83.6	83.4	76.5	88.4	63.8	66.6
40-49	137.3	132.4	140.5	132.3	125.5	120.5	119	116.3	115.8	117	110.9	112.2
50-59	200.6	200.6	198.3	194.2	200.5	203.8	195.5	185.9	183	170	169.1	161.1
60-64	288.8	258.4	262	274	281	279	274.8	272.7	257.1	227.6	224.6	229.1
65-69	329.5	309.1	330.8	337.7	320.5	325.4	312	324	318	291.9	274.5	268.9
70-79	406.7	418.7	400	427	406.1	420	416.1	410.3	392.8	373.8	353.5	347.9
80+	584	567	615	608	646	587	587	574	578	530	539	517
Male	234.3	230.6	238.8	242.2	237.6	236.7	231.4	230.5	223	211.2	215	210.9
Female	222.3	220.3	219.3	222.7	222.7	224.1	223.5	215.9	210.7	203.5	187.9	186
White	257	255	257	261	263	264	260	255	249	240	230	227
Black	165	164	176	177	164	166	160	158	156	147	147	149
Other race	131.4	133	130	160	158	153	176	170	148	132	149	136
†Hispanic	.	.	.	153	181	188	169	166	182	164	171	161
†Non-Hispanic	.	.	.	241	236	236	235	231	222	213	206	204
Diabetes	316	319	316	326	326	330	319	310	304	285	268	267
Hypertension	250.9	237	244	242	244	233	231.1	227	232.2	208.3	211.6	208.6
Glomerulonephritis	124.2	133.7	128.1	135.2	126.8	130	133.9	122.8	112.7	115.8	118.7	108.1
Other cause	181.5	169	180.7	174.7	165.8	168.1	168.7	175	158.9	164.5	156.6	158.7
<2 years	224.3	221	217.1	219.1	217.9	217.6	214.6	205.9	200	187.4	185.8	178
2-5 years	263.3	256.7	279.3	271.9	271.7	267.7	259.9	263.7	253.7	238.2	233.1	229.5
5+ years	186.5	190.3	188.5	214	200	207	212	211	210	219	200	210
All	228.6	225.8	229.5	232.9	230.4	230.6	227.6	223.4	217	207.5	201.9	198.9
ADJUSTED												
0-19	60.5	63.9	71	80.3	85.2	71.2	79.1	76.9	82.5	71.5	71.7	67.9
20-44	115	114.3	114.6	113.7	109.8	104.9	101	98	96.9	96.9	90.4	91.6
45-64	223	216	215	216	213	213	209	204	198	186	180	180
65-74	368	361	369	389	374	373	359	364	356	346	329	328
75+	551.1	551.8	542.6	573.1	547.6	556.2	565.4	548.1	537.1	541.1	512.8	517.7
Male	287	278	281	287	278	276	269	264	257	246	240	244
Female	284	284	283	290	281	283	279	276	271	263	245	240
White	320.8	315	313.4	316.9	309.8	309.3	302.5	298.3	293	281.9	268.8	263.4
Black	251.4	248.3	250.6	262.6	244.6	243.2	241.2	230.9	224.1	221.9	213.6	217.6
Other race	201.6	196.8	184.1	207.7	202.3	199	206.4	219.2	204.7	181.7	183.4	182.1
Diabetes	383.2	380.8	384.1	396.4	386.9	391	381.1	373.4	363.6	350.2	327.5	323.8
Hypertension	250.9	245.2	243.3	243.9	238.6	233.8	232.6	227.9	229.8	216.9	211.1	209.3
Glomerulonephritis	178.4	178	173.5	186.8	174	174.7	175.8	173.1	162.4	158.5	161.5	159.7
Other cause	247.7	236.3	234.5	242.4	226	220	216.2	221.4	211.6	214.8	208.5	208.9
<2 years	242.9	234.8	230.4	231.1	222.3	219.8	215.8	208.2	200.1	186.2	179	175.3
2-5 years	323.5	317.6	331.2	330.5	321.8	316.5	307.7	303.6	295.8	280.9	266.4	259.7
5+ years	329.3	332.6	327	359.4	348.7	359.5	354.2	355.8	358.1	363.7	347.6	357.5
All	286.7	281.8	282.4	289.9	280.7	280.3	274.6	270.1	264.2	254.6	243.4	242.3

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

." Zero values in this cell.

Table H.20.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	92.2	109.2	87	68.8	68.7	55.8	58.6	65.9	64.4
20-29	82.4	81.5	95.5	72.4	83	77	73	73	69
30-39	108.7	117.4	127.3	116.8	125.8	116.6	103.3	99.2	103.9
40-49	162.5	163.8	180.5	167.4	170.2	143.8	141	132.3	138.2
50-59	195.7	226.9	232.6	230.2	239.2	223	207.3	204.4	198.8
60-64	319.2	314.6	312.1	296	305	280	267	264	266
65-69	364.1	373.9	361.5	362	366	323	324	332	320
70-79	473	477	463.5	463.4	463.7	445.4	422.5	418.4	405.1
80+	686.5	743.3	689.2	636.1	680.8	644.1	577.4	577.3	550.7
0-19	96.1	109.7	89.8	69.5	69.3	56.6	61.9	73.4	68.2
20-44	117.2	121.5	130.3	118	124.4	113.4	107.2	102.8	105.8
45-64	221.9	239.9	249.6	240.6	249.8	225.4	212.3	206.5	205.2
65-74	390.8	405.2	387.2	391.2	394.9	354.9	349.1	351.9	346.7
75+	562	599	582	554.8	577.9	566.1	514.3	525.3	479.8
Male	288.5	299.7	301.7	295.8	310.4	286.6	273	269	267.9
Female	321.3	340.9	321.8	308.7	313.7	293.4	276.3	270.5	259.2
White	319.4	334.6	335.2	330.5	346.9	322.8	301.1	296	291.3
Black	268.4	285.7	276.1	281.2	262.9	250.6	233.1	246.3	234.3
Native American	320.2	254.3	227	281.3	390.5	363	507.3	306.6	304
Asian	406.3	474.1	372.5	194.1	261.5	179	234	160.9	180.1
†Hispanic									
†Non-Hispanic									
All	305.8	320.9	314.4	303.7	313.8	291.4	276.2	272.2	265.9

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	52.3	52.1	59.1	65.5	71.8	58.4	62.9	57.2	57.3	52.3	52.7	50.8
20-29	66	71	72	75	71	66	71	61	58	57	68	71
30-39	107.7	105	104	101	100	95	92	90	85	89	77	77
40-49	140.9	139.6	142.5	139.1	134.1	129.9	126.1	121.4	120.6	116.7	114	116.2
50-59	199.3	195.3	196	192.9	191.3	192.1	189.7	182.8	176.9	164.8	161.2	157.6
60-64	276	260	256	260	260	261	258	254	244	220	211	212
65-69	320	303	315	326	312	307	296	298	295	281	265	257
70-79	400.3	403.5	400.1	420.1	398.2	404.1	400.6	394.2	380.1	364.6	343.9	340.7
80+	566.3	562.7	580.6	599.1	613.8	609.8	606.5	567	556.7	524.4	512.2	508.1
0-19	55.4	57	65.1	71.3	74.2	62	65.1	61.1	61.2	54.3	54	52.3
20-44	109	108.1	108.4	107.4	103.6	99.8	96.4	92.9	91.1	90.9	85.1	86.8
45-64	208.8	201.4	200.6	199.4	197.3	197.6	194.6	188.9	182.3	169.1	164.9	164.3
65-74	339.5	331.2	339	353.5	341	339.1	327.2	327.4	317.1	301.9	286.5	282.6
75+	506.4	506	503.9	520.5	496.6	502.3	512.8	491.6	480.3	470.4	441.9	440.2
Male	269	261.7	265.1	268.9	262.7	259.2	254.4	247.7	239.9	225.3	220.9	220.6
Female	266.9	266	268.4	273.8	267.3	268.6	264.6	258.7	254.8	241.6	225.6	219.8
White	298.3	292.5	292.5	291.9	287.3	285.8	280.6	273.5	266.7	251.6	240.3	234
Black	236.7	234.3	241.6	253.2	240.7	238.6	235	224.5	219.5	212.1	203.8	205.5
Native American	249.6	267.4	216.9	227.3	211.7	218.5	213.2	232.4	254.1	190.8	209.8	212
Asian	171.2	152.7	157.8	183.9	180.2	167.3	177.1	181.3	174.2	156.7	158.3	153
†Hispanic				152.8	181.2	187.9	169.3	166	182.1	164.3	170.5	161.42
†Non-Hispanic				240.6	235.8	235.5	234.5	230.9	221.8	213.3	206.2	203.97
All	269	264.4	267.5	272.5	266	264.7	259.7	253	247.2	233.6	223.7	220.5

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.20.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	164.9	190.1	153.7	124.2	118.3	89.4	96.7	104.2	103.1
20-29	142.1	136.8	160.9	125.5	136.9	114.5	107.7	107.3	103.6
30-39	179.9	189.2	205.3	193.3	199.2	174.2	157.2	146.8	152.2
40-49	258.2	252.5	282	264	259	215.9	214.3	197.6	207.7
50-59	297.4	333.3	343.7	344.4	346.4	311.1	294.5	279	276.1
60-64	460.9	439	440.9	418.8	418.3	370.2	357.5	348.5	349.2
65-69	498.3	493.5	477.2	482.5	475.6	416.9	438.8	430.2	407.5
70-79	612.4	593.5	570.8	579	571.5	558.4	526.4	529	490.8
80+	837	868.5	807.9	742.2	785.5	739.8	601.9	661.9	602
0-19	170.9	185.3	157.5	124	119.8	92.6	104.1	119.5	109.7
20-44	191.2	190.8	210	192.4	198.6	172.6	165.3	155.6	159.2
45-64	332.5	346.4	363.9	354.9	354.6	310.1	296.5	281.9	283.6
65-74	524.7	532.1	502.9	512	509.5	460.3	460.5	456.5	439.1
75+	665.5	707.5	662.6	635.7	671.2	678.6	583.1	636.6	540.5
Male	384.6	383.4	386.5	385	395	349.2	336.2	333	323.6
Female	450.3	459.7	453	433.6	430.3	400	369	364.4	347.4
White	452.6	446.1	456.6	464.4	475.8	428.7	394.2	396.4	383.5
Black	317.5	343.8	331.4	316.3	280.6	283.6	269.2	276.6	256.3
Native American	570.8	428.5	439.4	372.6	431.9	444.9	457.5	335.1	304
Asian	570.4	596.2	514.5	279.1	431.3	255.7	354	183.3	228
†Hispanic									
†Non-Hispanic									
All	416.6	419.8	419.6	408.3	412.2	373.1	352.5	350	336.6

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	82.7	83.5	94.3	108.4	121	96.9	103	93.5	93.6	85.8	82.8	80.5
20-29	99.7	109	111.5	119.1	115	103.7	112.4	96	91.8	89.9	103.9	107.9
30-39	156.4	153.7	155.3	153.5	154	148.8	139.8	136.9	129.4	134.5	112.9	114.2
40-49	205.6	209.7	207.9	210	205.1	199.5	188.2	178.9	175.4	169.4	160.9	162.3
50-59	284.8	280.9	276.2	277.4	278.6	281.7	273.5	256.1	248.4	228.8	218.9	215.5
60-64	359.3	345.2	344.5	349.7	344.6	346.3	342.1	335.3	322.5	290.7	275	272.2
65-69	400.9	390.7	408.4	418.3	402.1	401.5	387	385	378.5	353.4	331.1	318.4
70-79	501.8	504.6	504.7	523	492.7	505.1	495.6	487.6	464.2	435	410.9	403.6
80+	663.2	677.5	696.1	694.2	716.6	746.4	747	668	644.3	591.9	584.4	564.1
0-19	88.6	94.3	107.2	121	125.8	103.3	107.3	101.2	102.7	89.8	86.4	82.9
20-44	161	165.9	166.9	170.4	164.7	155.4	146.7	143.8	142.7	142.9	126.6	128.3
45-64	292.7	284.3	280.9	283.2	282.7	285.2	277.8	264.4	254.9	235	225.3	222.5
65-74	432.6	426.2	441.6	453.5	435.5	436.5	418.9	417.4	401.1	370.2	351.3	344.5
75+	605.1	598.1	610.2	621.4	592.2	612.9	622.8	587.9	561.8	545.4	501.9	500.7
Male	336.7	332.7	334.7	339.5	331.1	332.1	326.1	315.7	300.1	278.8	271.3	268.6
Female	354.5	356.2	361.7	364.5	361.2	365.6	356.3	338.8	332.2	311.2	288	279.2
White	395.1	393.1	391.2	393	384.6	383.2	371.7	360.3	348.8	330.1	310.1	298.5
Black	258.5	263.2	276.8	284.9	279.3	291.9	288.7	268.6	256.7	234.9	226.6	233.5
Native American	304.5	307.9	277.1	294.6	274.5	279.3	288.5	277.8	280.3	215.2	242.1	230.3
Asian	248	190	204.9	238.4	247.6	242.6	247.1	226.3	217.6	200.7	195.9	191.8
†Hispanic				233.4	274.5	298.7	232.4	241.5	258.5	226.6	252.9	231.89
†Non-Hispanic				336.9	333.6	334.9	331.9	321.6	311.9	295.3	271	272.93
All	345.6	343.7	347.4	352	345.4	347.8	339.8	326.2	314.9	294	279.2	273.5

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.20.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	42.4	64.3	50.9	33.2	34.8	28.9	29.9	39.4	37.8
20-29	42.1	52.2	60.3	38.6	46.3	47.4	46.8	47.7	43.5
30-39	61.5	81.6	85.3	68.3	76.5	72.5	63.6	64.3	68.8
40-49	100.9	122.9	126.2	107.3	111.3	88.6	86.7	88.1	94.5
50-59	133.5	183.3	179	160.9	173.3	170.8	154.8	161.5	159.6
60-64	239.1	272.8	245.6	224.9	238.1	224.2	225	219.5	217.1
65-69	297.7	346.4	305.9	298	308.5	274.9	276.8	284.7	284.8
70-79	413.8	470.8	401.6	411	417.5	405.8	384.8	361.5	367.6
80+	651.1	778.7	630.7	605.8	656.7	638.6	614.9	587.7	558.2
0-19	50.6	77.7	57.7	38	36.6	28.1	33.1	47	43.9
20-44	74	95.5	93.5	75.3	79	70.6	66.8	64.6	69.2
45-64	160.5	207	196.6	179.4	191.6	177.7	168.4	171.6	169.5
65-74	326.1	379.1	328.9	328.4	335.9	316.2	305.1	301.9	311.1
75+	524.7	600.6	524	522.7	554.6	538.4	502.7	477.4	458.2
Male	227.5	273.3	260.3	239.9	260.2	247	241.6	231.8	236.2
Female	254.9	304.4	249.4	245.1	248.9	234.2	216.3	220.3	214.9
White	249.7	305	279.2	262.8	278.5	264.6	252	249.4	251.2
Black	218.2	228.7	202	209.5	208.2	202.5	180.5	191.7	182
Native American	158.5	157.1	76.8	286	476.3	317.7	600.2	235.7	338.9
Asian	287.6	518	361.4	168.2	159.4	142.8	158.2	128.8	138.7
†Hispanic									
†Non-Hispanic									
All	241	288.6	256.5	242.9	255.7	241.1	230	227.1	226.8

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	29.8	26.5	33.3	33.6	39	31.5	35	32.7	31.7	28.9	31.2	28.9
20-29	40.5	40.2	43.8	41.5	41.8	39.1	43.2	37.7	35.1	34.2	43.6	43.4
30-39	71.9	64.5	68.4	61.8	64.3	59	59.6	58.7	55.2	57.9	52.6	50.8
40-49	100.5	94.7	100.6	89.8	90.5	86.9	87.2	85.3	87.3	82.5	83.4	84.9
50-59	151	147.2	150.4	144.1	145.7	145	149.8	142.1	137.8	125.9	126.1	119.8
60-64	238	221.9	213.8	213.5	223	225	222.6	214.6	207.5	181	176.2	177.2
65-69	288.5	271	282.3	291.8	287.9	275.8	264.7	261	266.8	248.9	235.8	230
70-79	383.3	387.5	376.4	385.9	373.2	367.7	372	364.4	372.4	346.6	325.5	320.5
80+	565.3	578.6	587.1	610.1	612.2	585.2	562.5	538.4	563.2	533.3	514.6	506.7
0-19	33.4	30.7	37.5	37.7	41.5	36.9	38.1	37.7	34.4	31.3	32.2	32.2
20-44	73.1	70	67.3	61.2	63.8	66.7	64.6	63.1	60.3	60.1	58.7	60.9
45-64	175.1	163.5	166.7	159	161.9	158.9	161.7	155.5	149.7	136.1	134.5	131.7
65-74	314.9	304.8	315.3	320.4	320	304.4	301.3	299.3	304.6	283.1	266.6	259.7
75+	500.2	513	487.3	499.7	478.1	480.1	482	452.8	478.5	453.2	434.6	428.9
Male	232	221	227.1	227	229.9	223.9	220	208	209.2	194.6	193.8	192.4
Female	233.7	235.5	232.7	232.5	226.5	220.3	221.7	222.9	225.9	209	195.3	188.3
White	263.8	254	251.4	244.6	243.9	237.1	239.2	228.3	227	208.1	206.6	198.7
Black	184.8	185.8	194.6	207	206.1	203.1	199.2	194	200.8	195.2	173.7	182.6
Native American	220.1	267.1	214.7	211	217.4	207.4	169.8	208.5	296.1	227.8	224.5	211.2
Asian	114.2	131.8	141	156.6	140.1	121.8	112	154.3	151.9	127.4	137.6	105
†Hispanic				154.4	162.1	142.5	166.4	167.1	166.2	154.9	162.3	123.41
†Non-Hispanic				247.6	249.7	239.6	236.4	232.2	238	213	216	216.27
All	233.1	228.3	229.9	230.4	228.7	222.8	221	215.1	217.1	201.6	194.7	190.3

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.20.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	.	.	26.5	34.4	29	25.5	28.1	27.9	28.8	32.1	28.8
20-29	.	.	.	.	26.8	29.1	35.9	30.1	37.5	39.9	41.3	37.9	33.4
30-39	.	.	.	.	40	47.3	54.1	54.3	63	67.4	58	56.5	58.9
40-49	.	.	.	.	67.1	74.2	85	86.6	93.8	87.6	86.7	75.8	76.3
50-59	.	.	.	.	91.2	115.1	123.6	132	144.7	147.3	141.8	133	130.8
60-64	.	.	.	.	165.8	177.9	185.5	187.6	200.9	189.3	178.7	192.9	202.5
65-69	.	.	.	.	211.6	234.6	238.4	252.6	261.6	226.8	227.7	250.4	247.1
70-79	.	.	.	.	307.2	330.7	348.4	354.1	349.6	314.5	326.5	329	335.7
80+	.	.	.	.	491.8	566.6	557.7	530.5	581.2	523.2	564.7	499.9	517
0-19	.	.	.	.	24.7	34.2	28.8	25.4	27.1	28.5	28.7	35	29.8
20-44	.	.	.	.	40.9	48.8	54.8	54.5	60.1	63	58.8	54.2	54.5
45-64	.	.	.	.	102.3	122.4	135.4	138.8	154.1	145.1	138.7	134.7	137.5
65-74	.	.	.	.	238.5	258.8	266.2	277.2	275.3	241.4	250	262.9	267
75+	.	.	.	.	451.2	471.7	498.8	478.5	479.6	399.6	454.2	438.8	436.3
Male	.	.	.	.	169.6	197.4	203.6	210.9	220	209.3	205.4	206.2	209.4
Female	.	.	.	.	176.5	184.9	197	190.4	207.1	186.3	197.5	182.1	184.9
White	.	.	.	.	174	183.8	196	184.7	207.4	204.8	202.6	185	190.7
Black	.	.	.	.	154.5	210.7	216.6	256.8	246.6	200.8	186.9	219.9	218.8
Native American	.	.	.	.	79.6	104.9	99.8	114	100.1	314	502.7	306.2	301.9
Asian	.	.	.	.	323.7	208.1	188.9	86.9	86.7	42.6	187.6	134.9	126.1
†Hispanic	.	.	.	.					
†Non-Hispanic	.	.	.	.					
All	.	.	.	.	173.5	191.9	201.6	201.7	214.7	198.2	201.7	195.6	198.1
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	26.8	27.2	29.3	30.8	32.4	27.3	29.5	26.8	28.1	27	32	28	
20-29	34.8	37.9	37.8	37.6	35	34.6	37.5	31.2	30.7	31.2	43.2	41.4	
30-39	61.6	59.5	57.5	53.4	51.8	50.6	50.2	48.5	46.8	51.4	50.4	47.1	
40-49	80.2	80.8	83.7	80.5	74.6	75.7	75.3	71.3	71.3	71.3	77.2	76.6	
50-59	124.1	129.1	121.4	124.4	112.7	113.8	114.6	114.9	110.2	106.1	112.8	107.9	
60-64	187	180.9	168.3	177.5	170.7	178.1	174	169.8	162.5	148.4	152.2	147.9	
65-69	229.6	219.2	217.1	229.3	212.8	215.9	208.6	212.4	200.9	198.8	196.7	191.9	
70-79	283	285.6	283.5	311.9	286.2	291.4	298.2	297.6	275.3	269.6	262.3	258.8	
80+	434.9	415.5	437.7	483.9	478.1	474	475.4	458.3	427.1	403.9	400.6	409.9	
0-19	29.3	28.7	30.7	31.7	32.4	27.6	28.9	26.6	27.8	25.8	29.1	26.5	
20-44	58.6	57.3	56.6	52	52.9	52	53.4	48.5	48.1	49.4	53	50.5	
45-64	128.3	130.4	125.7	130.6	115.5	118.9	116.3	114.5	111.5	108	113	109.5	
65-74	230.4	234.7	227.4	253.7	236.7	238.8	232.3	236.4	216.2	217.3	216.8	210.5	
75+	369.3	359.9	353.1	396.5	377.7	378.6	405.5	397.3	365.5	349	351.5	357.2	
Male	193.6	191	186.5	190.2	179.4	179.5	181.6	176.7	167.5	158.6	162.6	167.5	
Female	162.1	161.8	164.5	183.9	173.3	177.1	175.8	176.9	165.5	163.5	160	149.1	
White	179.6	181.9	179.7	191	187.9	189.7	192.9	188.9	176.1	168.1	160	160.9	
Black	188.7	177	176.2	184.8	157.7	161.6	153.3	155.1	150.7	154.9	172.3	162.9	
Native American	157.3	123.9	156.8	151.1	151.1	168.6	177.5	195.5	161.5	124	119	111	
Asian	90.8	118.4	112.7	149.4	128	112.4	140	127.4	118.4	97.8	102.7	102.1	
†Hispanic				69.38	68.73	73.58	90.55	58.63	77.43	87.98	60.19	89.99	
†Non-Hispanic				141.6	133.3	136.6	139.2	131.5	117.6	119.7	127.2	110.65	
All	179.1	177.5	176.4	187.7	176.7	178.2	178.7	176.6	166.6	161.1	161.5	158.8	

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.20.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	77.7	76.3	58.5	51.4	58.9	55.1	54.3	62.9	61.8
20-29	71.3	59.6	69.5	56.6	73.4	79.6	77.5	76.9	71.9
30-39	96.2	89.5	98.8	95	113.1	119.6	102.3	100.4	107.2
40-49	146.2	129.6	145.8	141.3	155.1	135.8	129.2	123.2	127.6
50-59	176.8	185.4	194.1	200.9	216.1	201	182.8	193	178.2
60-64	290.2	264.6	272.2	266.2	281.5	263.2	231.3	237.6	241.9
65-69	331.5	322.1	333.5	334.2	344.8	299.1	263	295	281.3
70-79	428.7	419	451.1	436.9	442	399.8	369.9	368.1	365.9
80+	613.9	662.5	686.8	610.2	644.2	580.4	521.4	502.5	508.3
0-19	77.7	73.6	55.9	49.7	57.1	52.4	53	59.6	59.3
20-44	102.4	89.9	94.8	94.5	110	112.3	101.4	104.6	108.8
45-64	199.7	193.2	208.4	206.6	223.8	207.3	186.3	183.9	177.5
65-74	359.5	350	364.9	366.9	378.7	316.1	295.2	305.5	302.8
75+	512.5	546.6	608.6	552.4	552.9	523.6	467.9	468.9	445.7
Male	276.6	256.7	288.6	283.5	300.1	273.1	240.9	252.6	261.1
Female	255.8	271.4	268.3	252.2	269.1	249.1	232.4	224.8	210.3
White	244.6	247.8	268.6	249.1	272.6	257.4	231.7	225.6	225.3
Black	317.8	303.3	320.5	334.5	320.7	281.1	253.9	271.2	268.4
Native American	168.6	143	94.1	175.3	314.6	263.1	402.1	353.1	226.6
Asian	260.8	261.8	202.1	123.4	192.1	157.6	128.7	176.8	173.4
†Hispanic									
†Non-Hispanic									
All	267.3	264.2	280.7	269.5	286.8	262.8	239	240.8	238.3

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	51	51.9	56.3	60.7	57.7	49	52.7	47.7	47.9	41.9	43.2	43
20-29	66.5	74.4	68.7	70.9	58.8	57.6	60.7	51.6	49.3	46.9	57.5	60.8
30-39	111.7	112.8	98.8	100.6	87.2	83.1	80.7	78	72.8	75.1	66.3	68.5
40-49	134.4	126.3	131.9	126.3	111.1	102.2	105.3	104.5	103.7	101.2	100.3	104.1
50-59	181.4	164.3	177.6	165.4	158.5	153.5	154.5	159.5	151.4	146.2	144.7	139.9
60-64	263	233.1	234	233.2	233.2	227.6	225.3	227.4	213.5	198.7	192.9	199.3
65-69	303.2	266.7	281.2	293.9	272.4	253.8	245.9	263.3	256.6	258.4	246.5	240.1
70-79	363.5	359.8	353.6	380.7	359.6	359.1	350.6	347.7	327.1	340.3	324.6	321.9
80+	532.8	490.7	508.7	538	552.4	508.2	514.8	510.9	493.6	495.3	489.8	490.6
0-19	48.4	49.5	56.4	60.2	57.9	47.7	52.5	47.3	47.8	42.1	44.2	43.3
20-44	113.6	106.6	107.6	105.7	90.4	81.3	82.1	75.8	73.6	73.4	73.5	75.1
45-64	180.2	166.9	165.7	161.8	156.5	155.5	155	160.1	151.2	141.1	139.7	145.2
65-74	309.2	291.5	287	309.7	293.9	289.9	277.5	282.8	269.5	277.5	265.5	265.6
75+	474.2	474.7	471.2	483.7	445.7	436.3	437.4	444.1	425.2	452.8	428.3	417
Male	260.2	247.7	250.1	257.7	243.6	227.5	219.3	223.2	216	211.6	206.7	205
Female	225.5	206.4	213.5	216	209	210.6	214.9	214.9	202.2	205.1	196.9	199
White	224.3	210.6	218.7	215.4	215.9	219.6	214.2	218.5	211.4	206.2	196.6	199.6
Black	296	276.4	279.6	299	265.3	233.8	233.8	227.4	213	224.6	220.8	207.2
Native American	229.9	256.3	125.9	155.8	107.8	133.2	143.5	193.6	174.2	120.8	177.7	238.6
Asian	148.6	121.8	108.7	128.5	133.8	117.8	157.6	159.6	147.3	145.1	143.3	181
†Hispanic				82.7	119.1	115.9	118.7	98.48	122.6	106	104.5	102.16
†Non-Hispanic				183.6	170.6	173.7	174.1	183.1	162.9	171.1	163.1	165.48
All	244.7	228.9	233.3	238.7	227.6	220	217.4	219.3	209.7	208.9	202.3	202.1

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.20.2 (supplement)

Annual deaths per 1,000 patients: CAPD/CCPD Patients, by primary diagnosis*period prevalent patients*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	57.4	65.5	52.8	42.5	43.7	36.4	38.5	46.7	45.4
20-29	55.1	55.5	63.8	49.7	57.2	54.3	51.8	52.6	49.7
30-39	79.7	86.3	91.7	84.2	90.4	85	75.2	72.5	76.8
40-49	114	117.5	127.8	119	123.2	104.4	103.5	97.2	103.5
50-59	139.4	164.6	170.3	168.2	174.4	161.9	150.6	150.2	148.9
60-64	220.8	218.8	221	213	219.6	204.5	193.6	193	195.4
65-69	237.2	256.1	246	251.7	254.5	228.9	228	233.5	233.1
70-79	289.4	305.8	301.8	305.2	314	297.8	284.9	284.1	283.4
80+	381.9	430.2	417.2	392.9	419.9	392.7	363.5	367.6	360
0-19	56.7	66.4	54.7	43.2	44.7	36.8	41	50.8	47.4
20-44	82.9	86.9	91.8	83.8	89.2	82	77.8	74.7	78.2
45-64	156.2	171.9	179.9	174.2	181	164	154.7	152.1	153.3
65-74	252.8	270.7	261.6	268	271	247.6	243.4	245.4	248.9
75+	325.1	367.6	355.2	355.7	377.2	355.2	331.3	338.6	324.2
Male	198.4	209.1	212.3	209.2	219.5	204.2	195.5	192.9	196
Female	204.7	226.1	218.9	214.5	221	205.2	194.2	193.4	190.6
White	211.3	224.4	228.4	226.1	237.8	221.8	208	206.3	207.6
Black	182	203.3	196.2	202.2	195.1	183.2	173.5	182.1	179.3
Native American	190.3	162.3	144.6	196.7	270	251.5	301.3	220.1	223.6
Asian	218.3	280.7	247.7	150.4	186.4	131.4	164.6	123	136.1
†Hispanic									
†Non-Hispanic									
All	201.7	218.4	217.3	212.7	221.2	205.3	195.6	194.6	194.8

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	37	35.9	40.5	45.1	48.9	40.9	43.5	40.1	39.7	36.3	35.9	35
20-29	47.4	51.6	53.4	55.7	52.9	50.6	55.1	47.9	45.3	45.3	53.9	56
30-39	80	77.8	78.6	77.8	77.1	74.6	72.3	71.2	67.1	71.4	62.3	62.2
40-49	106.6	106	109.4	107.5	105.1	102.8	100.4	96.9	95.8	94.1	92.1	93.8
50-59	148.4	146.6	149.4	149	148.3	149.2	147.5	143.3	137.7	129.7	128.2	125.8
60-64	202.9	195.1	193.3	198.3	199.8	200.7	197.2	193.4	184.5	168.8	164	165.4
65-69	233.1	224.1	231.6	243.1	236.1	232.3	224.7	225.1	220.2	211.7	199.6	196.9
70-79	282.3	285.6	289.3	302	289.4	292.3	291.6	288.6	276	266.9	256.3	255.1
80+	377.6	375.5	389	397.6	402.9	396.9	396.5	382	367.9	353	351.3	353.6
0-19	39.4	39	44.8	49.5	51.5	43.9	45.1	42.6	42.2	36.9	37.2	36.5
20-44	81	80.9	82.5	82.5	80.4	78.3	75.8	73.6	71.8	72.9	68.5	69.6
45-64	155.5	151.6	153.2	153.9	153.4	153.9	151.4	147.6	141.5	132.9	130.7	131.2
65-74	244.7	241.8	249.3	261.1	255.1	252.8	245.8	245.7	236	226.3	216.5	215.7
75+	342.4	343.3	344.5	356.7	342.3	346.3	352.9	342.1	330.3	326.2	311.1	314.5
Male	198	194.9	199.5	203.4	200.1	197.8	194.4	190.4	182.8	174.3	172.1	173
Female	196.5	196.4	201.3	206.5	202.7	203.3	201.4	198.2	192.9	185	175.2	172.9
White	212.6	210	212.8	214	211.8	211	208.3	204	197	188.7	182.5	179.5
Black	183.3	183.4	189.8	199.6	191.8	189.1	186.5	180.4	175.5	170.4	165.3	167.5
Native American	193.6	199.3	171.5	181.7	167.4	178.1	173.8	187.4	188.1	150.2	167.8	167.7
Asian	132.9	121	124.9	145	143.8	135.8	144	148.2	139	127.2	128.6	126.3
†Hispanic				116.7	139.99	146.26	132.01	128.91	143.47	129.9	134.93	128.98
†Non-Hispanic				182.51	179.73	179.87	178.9	177	168.49	163.51	158.79	158.04
All	197.7	196	200.6	205.6	202	200.9	198	194.1	187.7	179.6	173.8	173.1

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.20.2 (supplement)

Annual deaths per 1,000 patients: CAPD/CCPD Patients, by primary diagnosis*period prevalent patients*

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	97	106.7	87.6	72	71	55.1	59.3	70.5	68.5
20-29	86	84.7	97.7	79.5	88	75.7	70.2	71.2	69.3
30-39	120.2	130.5	136.9	128.9	134.3	120	107.3	102	106.5
40-49	168.8	173.5	187.2	177.6	176.8	147.1	148.3	138.1	147.6
50-59	198.3	224	232.6	231.4	233.9	209.4	199.6	190.9	194.8
60-64	292.6	280.2	292	281.6	275.2	252.2	240.1	236.9	237.2
65-69	293.8	318.9	297	307.5	301.4	268.6	283.7	276.9	275.8
70-79	335.6	350.2	329.7	347.2	358.7	345.5	329.8	331.6	318.4
80+	431.2	487.6	466.7	423.1	438.2	416.6	354.6	386.5	364.3
0-19	95.2	106.5	90.2	73	73.4	57.4	65.2	79.5	71.6
20-44	124.3	130.1	137.1	128.4	134.7	117.3	113.2	107.3	111.6
45-64	216.9	228.9	243.4	237.8	236.6	209.9	200.9	193.9	198.7
65-74	308.8	325.2	308.6	321.7	320.3	293.8	296.9	291.2	291.2
75+	344.1	418.1	368.1	376.5	409.8	392.3	348.8	376.9	342.7
Male	246.6	252.5	253.2	252.2	259.7	233.6	227.8	223.1	222.6
Female	258.4	286.8	281.3	276.1	277.6	257.4	238.9	240.7	236
White	272.3	281.7	287.7	293.3	300.9	273.9	254	257	254.8
Black	199.8	233.4	218.9	213.6	197.6	195.5	191.2	193.6	187.1
Native American	306	247.3	249.3	236.6	296.7	302	290.6	228.7	218.3
Asian	324.6	347.1	318	201.4	284.3	174.4	226.9	132.6	161.6
†Hispanic									
†Non-Hispanic									
All	252.9	269.9	267.8	263.9	268.6	244.6	233.4	232.9	230.2

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	55.7	54.4	61.3	70.5	78.2	64.3	68.1	62.6	61.8	57	54.2	52.8
20-29	66.8	74.5	77.2	83.5	81.1	75.1	82.3	71.8	67.8	68.5	78.5	81.5
30-39	109.1	107.2	110.4	111.5	111.7	110.1	104.6	103.4	97.4	103.5	87.9	87.9
40-49	149.9	151.5	153	153.8	154.8	150.1	142.6	135.7	132.4	130.5	123.6	124.4
50-59	202.2	199.4	200.7	202.1	204.7	206.5	200.9	190.3	183.7	171.6	167.9	165.7
60-64	244.2	242.3	239.2	251	245.9	251.1	246.9	242.1	230.7	212.5	203.6	204.6
65-69	270.6	271.9	280.2	291.9	284.3	285.2	276.8	274	267.4	253	236.5	234.6
70-79	333.1	333.9	344.5	350.6	334.6	340.9	338.6	335.9	318.1	302.1	292.9	290.8
80+	407.7	421.1	429.6	431.4	435.4	447.2	451.4	423.2	400.5	377.1	378	376.8
0-19	60.6	61.1	70.3	80.1	83.1	69.8	71	67	67.1	58.2	56.7	55
20-44	114.1	117.6	120.2	123.9	121.2	115.5	109.6	108	106.5	108.9	96.9	97.8
45-64	205.3	201.5	202.1	205.9	207.5	209.8	204.6	195.8	187.7	175.8	171.2	170.5
65-74	290.4	291.9	302	311.9	303.9	305.1	296.3	295.6	282.5	265	254.1	252.8
75+	381.1	378.6	386.9	393.8	376.2	390	398.1	383.5	363.1	356.9	337.1	343
Male	234.6	234.1	238.6	241.3	236.7	238.4	235.3	230.6	217.6	205.8	202.5	202.3
Female	243.2	245.6	251	255.9	255.4	257.6	253.5	244	237.1	225.9	213.2	210.2
White	264	264.6	266	268.8	264.7	264.6	258.8	253.8	243.7	235.1	224.4	218.6
Black	194	198.8	210.8	216.6	213.1	219.5	217.9	206.1	196.2	181.9	177.3	185.8
Native American	225.4	215.3	202.8	219.3	209.7	218.9	226.1	219.1	207.9	165.2	187.6	179.3
Asian	179.5	146.5	157.2	180.9	190.1	187.8	192.7	175.8	164.9	154.1	150.8	153.3
†Hispanic				166.67	203.24	222.38	173.2	180.7	196.88	173.94	191.49	178.99
†Non-Hispanic				238.01	236.98	238.83	237.58	231.36	221.92	214.12	199.98	202.06
All	238.9	239.4	244.3	248.6	245.5	247.4	243.6	236.7	226.5	215.1	207.5	205.9

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.20.2 (supplement)

Annual deaths per 1,000 patients: CAPD/CCPD Patients, by primary diagnosis*period prevalent patients*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	.	.	30.7	38.6	30.6	21	22.7	19.5	21.2	29.6	28.4
20-29	.	.	.	.	33.9	36.1	42.3	27.4	33.3	35.3	35.5	36.5	33.1
30-39	.	.	.	.	50.7	57.6	62	49.6	57	54.3	48.4	47.7	51.9
40-49	.	.	.	.	70.7	80.3	89.1	74	81.6	66.5	66	66.4	73.3
50-59	.	.	.	.	98.7	142.1	143.5	132	134.1	128.7	115.9	124	124.3
60-64	.	.	.	.	182.3	208	178.8	171.2	180.2	168	168	166.7	166.8
65-69	.	.	.	.	215.2	230.6	221.2	214.6	222.4	202.1	198.8	207	212.2
70-79	.	.	.	.	261.6	299.6	272.5	279.2	287.9	275.3	258.3	251.6	261.9
80+	.	.	.	.	394.3	449	396.5	383.5	407.8	390.3	372	374.6	365.2
0-19	.	.	.	.	32.4	45.1	36.5	23.2	24.1	18.5	22.7	32.8	31.8
20-44	.	.	.	.	57	63.3	68.5	51.3	58.3	52.3	49.3	47.4	52.4
45-64	.	.	.	.	118.8	158.5	148.1	140.5	145.2	133.4	127.3	131.1	131
65-74	.	.	.	.	223.7	254.9	231.4	233.1	238	225.9	215.2	218	228.1
75+	.	.	.	.	325.5	362.7	329.4	341.8	362.7	345.5	321.5	316.5	312.7
Male	.	.	.	.	163	194.5	190.5	177.1	189.1	179.4	173.2	171.4	177.2
Female	.	.	.	.	178	201.7	178.9	177.8	183.5	170.1	157.6	163	164.1
White	.	.	.	.	177.3	205.5	197.5	187.2	199.4	187.2	178.7	179.6	185.1
Black	.	.	.	.	157.7	171.2	158	162	161.5	156	139.6	150.3	146
Native American	.	.	.	.	113.5	120	60.1	204.5	295.7	202.3	304.6	177.4	256.3
Asian	.	.	.	.	153.4	313	254.1	140.1	123.8	111.2	119.9	101.8	110.4
†Hispanic	.	.	.	.					
†Non-Hispanic	.	.	.	.					
All	.	.	.	.	169.9	198	186	177.8	187	175	166	167.8	171.4
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	22.2	19.5	24	24.8	27.2	23	25.2	24.3	23.1	20.8	21.2	20.9	
20-29	30.5	30.9	32.8	32.2	31.7	31.5	34.6	31.2	28.6	28.3	34.3	36	
30-39	53.9	50.2	52.5	49.1	50.8	48.1	48.6	48.7	45.5	48.2	42.2	42.2	
40-49	79.1	75.5	78.3	71.7	70.6	71.5	71.5	70.7	72	68.6	70	71.7	
50-59	117.2	116.2	122	118.8	119.1	117.6	120.7	115.5	110.9	101.8	102.8	97.2	
60-64	184.2	172	171.9	170.9	179.7	178.6	175	168.8	161.9	142.3	140.7	141.8	
65-69	214.8	202.3	218.1	226.2	227.4	213.9	205.9	202.2	203.6	191.3	184.5	178.8	
70-79	272.8	275.5	276.9	285.6	277.8	273.3	276.4	271.5	273.7	257.8	246.2	241.3	
80+	373.3	381.2	390.9	406.1	413.1	396.7	382	369.3	377.7	363.3	352.1	350.5	
0-19	24.7	22.2	27.4	27.7	29.9	27.1	27.2	27.9	25.3	22.1	23.1	23.7	
20-44	55.1	54.6	53.7	49.1	51.3	54.4	52.4	52.6	49.8	49.8	48.9	50.8	
45-64	135.6	127.6	132.2	128.7	131.1	128.5	130	125.2	119.8	110.1	109	107.6	
65-74	230.5	224	237.6	244.1	245.4	232.7	230.5	228.5	228.4	213.6	203.5	200.1	
75+	337.4	346.8	338.6	352.7	342.3	340.9	340.5	322.3	334.7	321.7	308.5	306	
Male	175.8	168.9	176.9	178.3	181.6	176.8	173.7	165	164.1	154.6	154.5	153.6	
Female	175.5	177.4	179.1	182.1	178.2	173.8	174.4	176	175.5	163.8	155.1	150.5	
White	193.6	187.7	190.1	187.3	187.7	182.6	184.5	176.8	173.9	161	161.6	156.2	
Black	149.2	150.3	160.9	170	170.6	167.4	162.8	159.8	163.6	159.3	144	150.2	
Native American	178.1	208.6	180	184.9	175.4	172.7	140.6	166.3	203.3	175.3	179.1	159	
Asian	96	102.3	108.9	122.4	113	101.6	94.2	129.2	124.6	108.3	116.1	90	
†Hispanic				121.67	127.13	112.84	131.47	132.33	134.65	123.29	130.52	102.08	
†Non-Hispanic				193.58	195	187.69	185.04	182.59	184.61	166.24	168.68	170.21	
All	176	173.3	178.4	180.7	180.3	175.7	174.2	170.3	169.5	159	154.8	152	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.20.2 (supplement)

Annual deaths per 1,000 patients: CAPD/CCPD Patients, by primary diagnosis*period prevalent patients*

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	.	.	19.9	27.5	21.4	17.6	17.9	18.6	19.7	23.6	21
20-29	.	.	.	.	19.5	23.3	28.3	23.1	26.5	29.5	30.7	27.9	24.7
30-39	.	.	.	.	32.2	40.2	43.6	43	49.1	52	44.7	43.7	46.9
40-49	.	.	.	.	48.1	52.4	65.5	66.5	73	67.9	67.4	58.2	60.1
50-59	.	.	.	.	72.9	92.2	98.3	107.9	116.4	116.2	111.5	104.7	104.1
60-64	.	.	.	.	118.5	132.9	146.8	146.5	161.8	150.6	141.3	152.3	163.1
65-69	.	.	.	.	153.8	177.4	174.7	184.5	200.6	176.1	176.9	194.1	197.7
70-79	.	.	.	.	227.5	234.7	256.4	254.8	255.4	232.1	241.5	241	253.7
80+	.	.	.	.	294.9	327.6	335.2	345.5	417.1	349.6	396.8	351.6	365.9
0-19	.	.	.	.	16.4	26.5	19.7	17.4	17.4	18.9	19.8	25.4	21.7
20-44	.	.	.	.	31.8	39.1	43	42.4	45.9	48	44.7	41.4	42.5
45-64	.	.	.	.	78.3	93.2	106.7	110.7	122.6	114.5	109.4	106.1	110
65-74	.	.	.	.	171.9	192.7	199.8	201.8	207.4	185.6	191.8	201.9	210.7
75+	.	.	.	.	297.9	303.2	335	327.2	340.5	275	318.1	305.5	313.8
Male	.	.	.	.	132.6	149.3	154.8	161.8	173.3	161.4	160.9	159.4	166.3
Female	.	.	.	.	124.9	135	150	146.7	163.7	147.3	156.9	145.7	149.7
White	.	.	.	.	135.5	141.2	151.2	143.9	163.1	159.3	159	144.9	150.3
Black	.	.	.	.	121	151.6	160.6	191.8	195.5	155.4	148.1	172.4	179.8
Native American	.	.	.	.	65.7	73.1	85.5	96.6	83.2	242.5	357.3	245.6	245.2
Asian	.	.	.	.	91.9	102.1	122.3	65.5	71.3	36.1	152.6	111.2	108.5
†Hispanic	.	.	.	.					
†Non-Hispanic	.	.	.	.					
All	.	.	.	.	129.2	142.9	153.1	154.7	169	154.5	159	153.6	158.6
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	20.7	19.4	20.1	21.9	23.5	19.6	21.2	19.3	19.8	19	21.6	19.4	
20-29	26	28.2	28.1	29.1	28.5	28	30.4	25.4	24.6	25.4	35.1	33.6	
30-39	48.6	46.4	43.2	41.9	42.1	41.5	41.5	40	38.3	42.8	41.9	38.7	
40-49	61.5	65.2	69.1	66.4	62.4	63.2	63.3	59.7	59.3	60.1	63.7	64.5	
50-59	98.6	103	99.3	102.9	91.6	93.1	94.6	95.3	90.7	88	95.2	90.4	
60-64	152.4	149.5	140.1	145.7	140.5	144.7	141.6	137.7	131.7	121.4	124.2	119.6	
65-69	184.6	178.1	176.9	183.6	174.1	175.4	170.1	171.6	161.4	161	159.9	155.5	
70-79	214	221.1	214.6	241.8	224.1	230.8	235.9	236.8	217.8	214.1	207.4	205.5	
80+	320.5	305.4	322.6	346.4	340.7	337.6	338.4	337.2	311.4	297.8	302.8	308.7	
0-19	22	20.3	21.1	22.6	23.4	19.8	20.5	19.1	19.6	17.8	20.4	18.8	
20-44	45.5	45	45.1	42.1	43.4	42.6	44.3	40.2	39.5	41	44.1	41.7	
45-64	102	104.6	101.6	106.2	94.8	97.6	95.9	94.7	91.6	89.9	93.4	90.9	
65-74	182.4	187.9	183.5	202.3	192.8	193	188.1	190.4	173.8	175.2	174.2	169.6	
75+	276.6	273.2	269	297.2	283	289.7	304.9	301.7	276.9	265.6	268.2	274.8	
Male	154.1	154.1	149.2	154.3	146.4	147.3	149.2	146.3	137.6	131.2	135.8	137.8	
Female	133.1	133.5	138.1	151.5	143.6	146.4	145.8	147.6	137.1	136.7	133.2	126.7	
White	143.1	144.9	145.8	153.2	151.5	153	156.1	153.3	141.8	136.6	131.5	132.2	
Black	154	150.4	145.4	155.6	134.3	137.9	131	134.4	130.1	134.1	147.6	139.7	
Native American	131.2	105.4	130.3	121.4	119.1	144.1	149.9	165.8	136.4	105.4	100.5	97.9	
Asian	81.9	101	96.5	127.7	107.1	96.4	118.6	112	101.6	85.2	88.2	87.6	
†Hispanic				55.12	55.72	60.24	73.78	48.51	64.47	72.9	50	74.07	
†Non-Hispanic				113.25	107.65	110.11	112.91	106.54	94.94	97.23	102.65	89.81	
All	144.5	144.4	144.2	153.3	145.1	146.6	147.4	146.7	137.3	133.8	134.5	132.5	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.20.2 (supplement)

Annual deaths per 1,000 patients: CAPD/CCPD Patients, by primary diagnosis*period prevalent patients*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	.	.	46.6	47.2	38	34.3	40.3	37.7	38	44	44.7
20-29	.	.	.	.	53	47.5	54	43.9	55.7	59.9	58.5	59.6	58.7
30-39	.	.	.	.	76.2	72.8	80.7	79.4	87.1	90.7	77.6	76.2	82
40-49	.	.	.	.	118.1	105.6	115	109.8	120.5	103.5	99	93.9	98.2
50-59	.	.	.	.	132.3	140.2	148.1	147.5	163.4	154.6	140.6	147.6	137.1
60-64	.	.	.	.	207.7	192	196.5	196.9	212.1	203.6	178.8	182.3	182.7
65-69	.	.	.	.	236.2	236.9	242.6	252.5	257.5	229.3	200.1	220	212
70-79	.	.	.	.	277.8	279.7	313.2	305.1	317.1	285.3	269	267.7	270.3
80+	.	.	.	.	358	398	434.3	403.5	422.8	378.5	350.1	342	354.4
0-19	.	.	.	.	46.7	45.5	36.7	32.8	38.8	36.1	36.9	41.5	43
20-44	.	.	.	.	78.3	71.2	73	77.4	82.6	85.2	77.8	79.6	83
45-64	.	.	.	.	150.1	147.9	159.8	153.4	172.1	159.5	143.3	141.2	137.5
65-74	.	.	.	.	251.4	251.2	264.9	268.7	279.1	238.9	221	228.6	230.8
75+	.	.	.	.	315.4	344	394.5	374.6	380.4	348.7	322.7	323.3	315.9
Male	.	.	.	.	196.2	186.6	212.1	210.5	223.2	204.8	182.5	190	197.7
Female	.	.	.	.	181.9	197.9	201.4	192.1	206.5	191.2	179.9	175.8	167.8
White	.	.	.	.	180.4	185.7	202.8	190.3	205.6	195.4	177.8	174.6	175.5
Black	.	.	.	.	219.9	213.4	229.6	242.1	241.4	210.4	193	202.9	205.3
Native American	.	.	.	.	124.7	103.5	79.4	147.1	259.8	210.1	269	249.5	154
Asian	.	.	.	.	139.3	168.3	157	103.4	147.3	122.8	107.4	141.4	134.6
†Hispanic	.	.	.	.					
†Non-Hispanic	.	.	.	.					
All	.	.	.	.	189.9	192.5	208.3	202	216.2	199	182.9	184.2	184.4
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	35.6	36.7	40.6	43.4	41.6	35.9	37.6	34.2	34.3	29.8	31.4	31.2	
20-29	53.3	59.9	58.5	57.1	46.9	47	48.6	41.6	39.6	38.3	47.4	50.4	
30-39	88.6	89	84.3	84.2	74	67.9	65.7	63.6	59.5	61.9	56.8	57.7	
40-49	101.5	96.1	101.8	99.9	88	82.9	85.9	85.4	84.5	83.6	84.2	86.1	
50-59	134.3	123.8	129.2	127.4	123.5	123.5	123.6	128.4	120.7	117.7	112.2	112.3	
60-64	198.4	178.9	180.4	181.1	186.1	180.4	177.2	178.1	166	156	153.4	158.7	
65-69	225.7	204.5	207.4	225.5	210.8	199.4	194.7	205.4	197.5	198.9	187.9	184.9	
70-79	265.5	267.6	263.3	284	272	269.4	264.8	263.6	245.1	254.2	243.8	244.6	
80+	381.9	354.3	367	376.1	376.9	347.6	354.9	356	335	339.8	344	346.4	
0-19	33.6	35.2	39.6	42.7	41.4	35.1	37.5	33.9	34.1	30.1	31.8	31.2	
20-44	86.7	81.9	83.5	83.6	72.6	66.5	67.1	61.9	60.3	61.4	61.4	62.1	
45-64	137.1	129.5	130.8	128.8	125	124.8	123.6	128.4	120.2	112.9	112.4	117.9	
65-74	232.6	222.2	222.1	239.4	229.3	224.5	216.3	220.3	207.8	211.6	203.3	205.3	
75+	338.3	337.8	337.2	346.9	323	315.1	317	321.5	301.3	317.3	305	304.5	
Male	195.5	190.1	191.2	200.8	191.7	179.1	172.3	176	168.7	166.6	163.7	163.8	
Female	177.8	164	170.7	172.2	166.8	168.7	173.2	172.6	159.8	162.6	156.3	159.5	
White	174	164.6	173.2	170	170.1	172.1	167.7	170.3	162	160	153.5	157.4	
Black	223.9	214.5	210	233.2	210.2	188.3	189.8	186.7	174.3	182.2	178.7	169.6	
Native American	176.9	191.9	106	124	87.5	111.1	123.3	161.4	141.7	101.4	146.3	197.3	
Asian	118.7	102.5	91.9	109	112	100.1	132.4	136.5	122.8	121.1	120	148.9	
†Hispanic				67.74	94.95	92.91	96.72	76.92	96.77	85.25	86.21	83.6	
†Non-Hispanic				142.98	134.02	136.96	134.89	143.48	127.03	133.63	127.22	130.04	
All	187.8	178.3	181.6	187.8	180	174.4	172.8	174.4	164.6	164.8	160.2	161.7	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

Table H.20.3 (supplement)

CAPD/CCPD Patients: counts of total deaths, by primary diagnosis*period prevalent patients*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	13	20	25	18	18	24	22	24	31	30
20-29	*	*	16	28	37	40	58	42	65	68	63	72	71
30-39	*	25	54	59	107	146	183	184	219	227	209	247	306
40-49	15	25	55	116	165	193	283	275	302	306	368	392	511
50-59	26	47	122	197	265	403	459	501	556	560	589	684	765
60-64	*	29	90	158	232	297	383	401	471	476	498	564	624
65-69	*	34	92	154	184	286	377	463	524	505	606	729	786
70-79	20	36	115	214	243	377	503	610	701	747	823	956	1,185
80+	*	*	28	53	57	86	107	127	173	189	211	254	304
0-19	*	*	*	13	20	25	18	18	24	22	24	31	30
20-44	14	41	97	136	225	278	356	360	415	444	449	508	610
45-64	42	89	240	422	581	801	1,010	1,043	1,198	1,193	1,278	1,451	1,667
65-74	23	57	160	296	334	522	676	841	936	948	1,090	1,288	1,509
75+	15	18	75	125	150	227	311	359	462	493	550	651	766
Male	49	112	319	485	732	976	1,336	1,417	1,662	1,700	1,867	2,167	2,592
Female	46	97	260	507	578	877	1,035	1,204	1,373	1,400	1,524	1,762	1,990
White	79	180	468	793	1,063	1,491	1,935	2,108	2,467	2,517	2,705	3,116	3,662
Black	15	29	106	186	230	321	396	478	504	528	603	745	831
Native American	*	*	*	*	11	23	21	27	42	38	46	39	43
Asian	*	*	*	*	*	18	19	*	22	17	37	29	46
†Hispanic													
†Non-Hispanic													
All	95	209	579	992	1,310	1,853	2,371	2,621	3,035	3,100	3,391	3,929	4,582
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	21	29	31	31	31	22	27	21	23	21	25	22	
20-29	73	96	85	82	72	65	71	43	46	52	66	55	
30-39	329	340	332	313	290	241	218	214	183	214	152	153	
40-49	557	584	667	661	601	548	499	462	458	443	418	426	
50-59	847	946	1,027	1,052	1,074	1,023	936	892	866	827	825	806	
60-64	725	670	726	791	760	713	630	600	562	488	502	539	
65-69	905	941	1,044	1,066	967	885	782	782	749	687	651	623	
70-79	1,360	1,585	1,652	1,764	1,637	1,613	1,512	1,416	1,310	1,262	1,225	1,211	
80+	349	406	491	520	547	497	462	455	470	487	521	517	
0-19	21	29	31	31	31	22	27	21	23	21	25	22	
20-44	661	702	705	677	619	534	488	448	425	440	375	376	
45-64	1,870	1,934	2,132	2,222	2,178	2,056	1,866	1,763	1,690	1,584	1,588	1,603	
65-74	1,688	1,891	2,063	2,100	1,946	1,802	1,627	1,594	1,459	1,361	1,306	1,286	
75+	926	1,041	1,124	1,250	1,205	1,193	1,129	1,059	1,070	1,075	1,091	1,065	
Male	2,786	3,013	3,305	3,405	3,188	2,954	2,683	2,579	2,472	2,357	2,395	2,375	
Female	2,380	2,584	2,750	2,875	2,791	2,653	2,454	2,306	2,195	2,124	1,990	1,977	
White	4,101	4,395	4,668	4,794	4,651	4,349	3,954	3,751	3,571	3,452	3,312	3,284	
Black	953	1,065	1,229	1,268	1,128	1,078	978	943	913	850	862	876	
Native American	52	64	57	72	59	58	61	46	46	44	61	51	
Asian	60	73	101	146	141	122	144	145	137	135	150	141	
†Hispanic				364	468	473	412	425	938	424	452	429	
†Non-Hispanic				5,936	5,558	5,190	4,776	4,520	8,482	4,092	3,973	3,965	
All	5,166	5,597	6,055	6,280	5,979	5,607	5,137	4,885	4,667	4,481	4,385	4,352	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.20.3 (supplement)

CAPD/CCPD Patients: counts of total deaths, by primary diagnosis

period prevalent patients

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	*	*	15	17	17	26	22	25	19	15	24	24
30-39	*	20	32	39	60	86	107	107	119	107	112	123	149
40-49	*	14	29	62	77	97	143	145	148	151	194	212	278
50-59	*	21	43	86	111	165	196	224	246	248	306	340	418
60-64	*	*	41	61	71	91	158	158	171	192	226	255	309
65-69	*	*	23	51	42	84	104	153	163	173	262	277	318
70-79	*	*	21	44	34	65	82	137	162	177	214	301	339
80+	*	*	*	*	*	*	*	11	17	24	18	43	44
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	12	29	55	82	118	155	194	197	216	199	224	248	293
45-64	19	37	99	181	218	301	436	459	493	518	629	706	885
65-74	*	11	36	86	69	124	164	254	260	292	406	473	557
75+	*	*	*	12	13	31	31	47	82	82	88	148	144
Male	19	43	101	160	220	301	430	478	538	550	673	797	969
Female	21	35	98	202	199	311	397	481	514	542	675	779	911
White	34	69	155	287	348	485	672	789	860	886	1,080	1,286	1,528
Black	*	*	41	68	61	104	131	148	152	173	226	253	300
Native American	*	*	*	*	*	17	18	19	30	27	26	29	30
Asian	*	*	*	*	*	*	*	*	*	*	16	*	22
†Hispanic													
†Non-Hispanic													
All	40	78	199	362	419	612	827	959	1,052	1,092	1,348	1,576	1,880
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	20	32	26	27	21	*	18	11	*	*	15	12	
30-39	152	160	160	147	133	124	98	105	89	101	55	63	
40-49	292	308	337	367	343	282	253	240	212	223	190	187	
50-59	494	538	581	628	668	620	546	503	520	486	483	477	
60-64	362	365	389	466	410	417	380	352	344	297	299	318	
65-69	384	448	503	520	510	489	426	414	431	370	345	342	
70-79	450	532	587	645	632	654	627	614	548	557	526	513	
80+	61	71	82	101	135	132	119	101	108	121	140	123	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	299	340	323	332	286	241	208	216	187	196	135	150	
45-64	1,021	1,063	1,170	1,303	1,289	1,211	1,087	995	987	919	907	907	
65-74	685	803	898	949	931	903	811	799	751	683	657	632	
75+	210	248	274	317	346	372	361	330	336	365	354	346	
Male	1,115	1,220	1,343	1,471	1,417	1,377	1,253	1,218	1,155	1,126	1,113	1,085	
Female	1,100	1,235	1,323	1,430	1,435	1,350	1,215	1,122	1,106	1,037	940	950	
White	1,770	1,950	2,065	2,238	2,212	2,102	1,898	1,838	1,758	1,703	1,566	1,533	
Black	368	427	506	531	520	516	454	409	403	357	370	389	
Native American	41	48	45	57	44	42	46	31	33	32	44	35	
Asian	36	30	50	75	76	67	70	62	67	71	73	78	
†Hispanic				223	301	316	243	279	606	263	297	276	
†Non-Hispanic				2,689	2,590	2,453	2,262	2,098	3,972	1,920	1,780	1,783	
All	2,215	2,455	2,666	2,901	2,852	2,727	2,468	2,340	2,261	2,163	2,053	2,035	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.20.3 (supplement)

CAPD/CCPD Patients: counts of total deaths, by primary diagnosis*period prevalent patients*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	*	*	*	*	*	*	*	*	*	*	*	*
30-39	*	*	*	*	*	11	16	*	22	20	19	23	30
40-49	*	*	*	11	14	27	36	23	39	37	44	57	69
50-59	*	*	23	28	41	84	79	89	94	98	89	131	146
60-64	*	*	20	40	51	83	63	85	102	96	123	129	128
65-69	*	*	28	44	46	67	104	114	140	136	168	210	238
70-79	*	14	39	69	79	141	148	211	247	271	300	344	466
80+	*	*	*	31	21	35	40	55	71	90	108	137	150
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	*	*	*	*	21	21	34	17	42	45	40	52	65
45-64	*	11	48	75	98	186	164	189	220	216	240	295	313
65-74	*	19	49	86	88	157	188	233	277	299	331	394	499
75+	*	*	28	58	58	86	104	147	181	198	245	297	355
Male	14	22	71	122	154	261	303	331	435	453	530	607	744
Female	*	14	63	107	111	189	187	257	285	305	327	434	489
White	14	27	103	169	188	339	367	434	543	579	669	784	952
Black	*	*	31	58	75	105	118	149	168	171	172	246	261
Native American	*	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*	*	*	*	*	*	11
†Hispanic													
†Non-Hispanic													
All	19	36	134	229	265	450	490	588	720	758	857	1,041	1,233
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	*	*	*	*	*	*	*	*	*	*	*	*	
30-39	34	39	43	28	38	24	19	22	20	15	15	23	
40-49	85	80	105	91	86	89	61	73	91	68	71	76	
50-59	120	151	182	171	166	158	160	136	132	123	125	113	
60-64	173	138	156	146	159	128	116	124	95	84	90	97	
65-69	262	256	293	273	249	187	173	174	161	145	157	140	
70-79	570	612	626	621	552	514	482	428	443	370	400	393	
80+	180	226	249	267	251	225	199	209	230	227	236	253	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	75	82	89	66	83	71	42	60	59	49	47	54	
45-64	345	334	404	376	371	335	318	302	282	248	258	260	
65-74	554	586	651	593	548	441	424	404	380	332	345	342	
75+	458	508	517	568	504	485	430	407	454	410	448	444	
Male	812	856	995	943	892	775	677	629	655	582	634	639	
Female	621	654	669	661	614	557	537	544	520	457	464	462	
White	1,121	1,149	1,225	1,172	1,110	978	905	821	838	749	814	786	
Black	299	337	410	396	363	326	280	298	295	258	236	286	
Native American	*	*	*	*	*	*	*	*	*	*	*	*	
Asian	*	17	24	31	27	23	26	48	35	27	42	24	
†Hispanic				64	67	58	66	70	136	63	68	54	
†Non-Hispanic				1,544	1,442	1,281	1,153	1,114	2,226	982	1,032	1,056	
All	1,433	1,510	1,664	1,604	1,506	1,332	1,214	1,173	1,175	1,039	1,098	1,101	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.20.3 (supplement)

CAPD/CCPD Patients: counts of total deaths, by primary diagnosis

period prevalent patients

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	*	*	*	*	*	*	*	*	14	18	*	11
30-39	*	*	*	*	12	20	25	28	40	44	33	44	54
40-49	*	*	*	*	16	19	40	39	48	52	55	46	66
50-59	*	*	22	26	26	50	59	69	73	86	79	71	90
60-64	*	*	11	12	24	44	55	53	73	69	59	77	82
65-69	*	*	11	17	23	39	49	60	83	73	75	101	98
70-79	*	*	16	29	42	53	84	84	89	116	129	126	159
80+	*	*	*	*	*	*	13	16	33	19	33	22	37
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	*	*	*	14	25	39	56	55	67	86	77	78	98
45-64	*	13	36	42	57	100	133	140	175	179	167	170	205
65-74	*	*	22	36	45	75	99	110	141	144	144	170	187
75+	*	*	*	15	25	27	47	50	64	64	93	79	107
Male	*	*	50	62	97	153	207	222	273	302	304	333	385
Female	*	14	28	48	62	98	131	135	177	178	183	174	217
White	*	19	68	93	144	208	286	293	378	403	389	401	491
Black	*	*	*	16	13	38	46	62	69	70	82	99	102
Native American	*	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
All	*	23	78	110	159	251	338	357	450	480	487	507	602
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	11	*	*	*	*	*	*	*	*	*	*	*	
20-29	15	18	19	21	25	18	24	15	14	12	26	12	
30-39	49	47	41	42	46	39	35	29	32	42	39	25	
40-49	70	92	102	90	86	93	84	62	64	72	59	74	
50-59	92	115	106	118	84	99	101	99	92	91	105	85	
60-64	73	77	73	86	81	76	60	46	60	40	39	37	
65-69	113	111	114	110	96	92	75	76	56	63	63	57	
70-79	136	191	185	227	204	192	194	158	121	124	108	107	
80+	34	35	56	61	68	59	59	56	47	43	51	49	
0-19	11	*	*	*	*	*	*	*	*	*	*	*	
20-44	105	108	113	99	115	97	102	72	74	80	88	65	
45-64	194	241	228	258	207	228	202	179	188	177	180	168	
65-74	186	232	225	246	216	202	173	167	123	132	118	113	
75+	97	105	130	152	152	141	155	123	101	98	104	100	
Male	385	430	425	449	406	379	363	303	275	263	274	272	
Female	208	262	275	315	293	292	272	244	215	226	220	178	
White	482	563	561	612	578	536	509	428	373	376	356	350	
Black	100	110	117	122	95	110	95	99	96	93	116	79	
Native American	*	*	*	*	*	*	*	*	*	*	*	*	
Asian	*	16	16	25	20	18	24	16	18	16	18	17	
†Hispanic				35	38	40	47	31	82	46	32	46	
†Non-Hispanic				730	664	633	592	518	904	445	465	407	
All	593	692	700	764	699	671	635	547	490	489	494	450	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.20.3 (supplement)
CAPD/CCPD Patients: counts of total deaths, by primary diagnosis

period prevalent patients

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	12	14	13	12	20	14	16	17	23
20-29	*	*	*	*	13	15	18	13	27	25	25	31	31
30-39	*	*	12	*	25	29	35	41	38	56	45	57	73
40-49	*	*	13	35	58	50	64	68	67	66	75	77	98
50-59	*	12	34	57	87	104	125	119	143	128	115	142	111
60-64	*	11	18	45	86	79	107	105	125	119	90	103	105
65-69	*	14	30	42	73	96	120	136	138	123	101	141	132
70-79	*	15	39	72	88	118	189	178	203	183	180	185	221
80+	*	*	12	14	25	35	45	45	52	56	52	52	73
0-19	*	*	*	*	12	14	13	12	20	14	16	17	23
20-44	*	*	25	32	61	63	72	91	90	114	108	130	154
45-64	*	28	57	124	208	214	277	255	310	280	242	280	264
65-74	*	23	53	88	132	166	225	244	258	213	209	251	266
75+	*	*	28	40	54	83	129	115	135	149	124	127	160
Male	14	38	97	141	261	261	396	386	416	395	360	430	494
Female	12	34	71	150	206	279	320	331	397	375	339	375	373
White	23	65	142	244	383	459	610	592	686	649	567	645	691
Black	*	*	24	44	81	74	101	119	115	114	123	147	168
Native American	*	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
All	26	72	168	291	467	540	716	717	813	770	699	805	867

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	*	22	23	21	22	19	23	15	19	19	21	17
20-29	30	38	33	28	21	31	25	*	20	25	21	26
30-39	94	94	88	96	73	54	66	58	42	56	43	42
40-49	110	104	123	113	86	84	101	87	91	80	98	89
50-59	141	142	158	135	156	146	129	154	122	127	112	131
60-64	117	90	108	93	110	92	74	78	63	67	74	87
65-69	146	126	134	163	112	117	108	118	101	109	86	84
70-79	204	250	254	271	249	253	209	216	198	211	191	198
80+	74	74	104	91	93	81	85	89	85	96	94	92
0-19	*	22	23	21	22	19	23	15	19	19	21	17
20-44	182	172	180	180	135	125	136	100	105	115	105	107
45-64	310	296	330	285	311	282	259	287	233	240	243	268
65-74	263	270	289	312	251	256	219	224	205	214	186	199
75+	161	180	203	213	203	195	183	199	179	202	185	175
Male	474	507	542	542	473	423	390	429	387	386	374	379
Female	451	433	483	469	449	454	430	396	354	404	366	387
White	728	733	817	772	751	733	642	664	602	624	576	615
Black	186	191	196	219	150	126	149	137	119	142	140	122
Native American	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	11	15	18	14	24	19	17	21	17	22
†Hispanic				42	62	59	56	45	114	52	55	53
†Non-Hispanic				973	862	823	769	790	1,380	745	696	719
All	925	940	1,025	1,011	922	877	820	825	741	790	740	766

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	26	47	129	227	326	387	468	464	482	510	556	589	657
20-29	27	72	203	293	518	640	693	795	881	968	1,002	1,135	1,270
30-39	43	151	390	599	963	1,272	1,501	1,610	1,752	1,953	2,182	2,543	2,856
40-49	67	153	426	658	1,109	1,385	1,633	1,790	1,942	2,264	2,633	3,107	3,675
50-59	78	242	659	960	1,506	1,871	2,185	2,314	2,455	2,571	2,907	3,363	3,869
60-64	24	98	345	513	800	1,087	1,353	1,463	1,613	1,701	1,871	2,118	2,259
65-69	25	98	269	408	588	848	1,133	1,363	1,484	1,637	1,840	2,127	2,507
70-79	34	90	269	484	596	872	1,173	1,389	1,576	1,717	2,009	2,396	2,933
80+	*	17	49	81	95	122	170	223	242	290	367	438	522
0-19	26	47	129	227	326	387	468	464	482	510	556	589	657
20-44	98	294	800	1,191	1,993	2,563	2,966	3,300	3,623	4,051	4,451	5,233	5,961
45-64	142	423	1,223	1,832	2,904	3,693	4,399	4,672	5,020	5,406	6,145	7,034	7,969
65-74	50	160	452	744	977	1,435	1,915	2,268	2,484	2,755	3,122	3,638	4,373
75+	17	44	136	230	302	407	561	706	818	890	1,094	1,323	1,589
Male	170	513	1,434	2,249	3,552	4,534	5,449	5,969	6,505	7,156	8,098	9,391	10,875
Female	161	455	1,306	1,974	2,950	3,951	4,860	5,441	5,923	6,456	7,269	8,426	9,673
White	266	789	2,153	3,234	5,021	6,487	7,856	8,590	9,274	10,035	11,195	12,883	14,660
Black	63	166	549	912	1,348	1,809	2,229	2,536	2,820	3,207	3,730	4,386	5,219
Native American	*	*	16	39	62	91	107	137	158	158	175	220	264
Asian	*	*	21	38	70	98	118	147	176	212	267	328	405
†Hispanic													
†Non-Hispanic													
All	332	968	2,740	4,223	6,502	8,485	10,309	11,410	12,427	13,611	15,367	17,817	20,548

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	664	681	658	673	660	627	549	549	575	578	596	591
20-29	1,378	1,471	1,474	1,437	1,400	1,323	1,187	1,120	1,111	1,105	1,023	1,015
30-39	3,076	3,376	3,466	3,401	3,141	2,831	2,637	2,566	2,446	2,416	2,374	2,300
40-49	4,054	4,412	4,741	4,988	4,815	4,544	4,203	4,016	3,952	3,798	3,770	3,782
50-59	4,222	4,714	5,181	5,406	5,315	5,050	4,802	4,818	4,740	4,854	4,881	4,988
60-64	2,511	2,592	2,773	2,882	2,719	2,550	2,294	2,204	2,179	2,160	2,227	2,356
65-69	2,746	3,046	3,153	3,150	3,014	2,731	2,519	2,412	2,357	2,343	2,374	2,327
70-79	3,344	3,785	4,123	4,141	4,043	3,847	3,629	3,470	3,339	3,368	3,473	3,491
80+	597	716	799	853	850	846	787	794	812	918	962	1,003
0-19	664	681	658	673	660	627	549	549	575	578	596	591
20-44	6,424	6,967	7,138	7,187	6,772	6,272	5,731	5,541	5,353	5,205	5,006	4,990
45-64	8,818	9,598	10,497	10,926	10,618	10,026	9,393	9,182	9,076	9,127	9,270	9,451
65-74	4,909	5,502	5,813	5,768	5,520	5,057	4,763	4,524	4,343	4,318	4,394	4,405
75+	1,778	2,044	2,262	2,375	2,386	2,367	2,172	2,153	2,165	2,311	2,416	2,417
Male	11,887	13,062	13,836	14,030	13,409	12,521	11,586	11,238	11,069	11,081	11,113	11,252
Female	10,706	11,731	12,532	12,899	12,547	11,828	11,022	10,710	10,442	10,458	10,568	10,602
White	15,960	17,249	18,159	18,394	17,699	16,501	15,233	14,692	14,333	14,375	14,378	14,487
Black	5,783	6,510	6,987	7,178	6,895	6,515	6,113	5,964	5,836	5,771	5,860	5,886
Native American	290	305	338	344	328	329	303	281	291	309	316	304
Asian	559	729	884	1,013	1,034	1,004	960	1,011	1,050	1,083	1,127	1,177
†Hispanic				2,382	2,584	2,518	2,433	2,560	5,151	2,581	2,651	2,658
†Non-Hispanic				24,673	23,573	22,043	20,364	19,575	38,251	19,184	19,270	19,439
All	22,593	24,792	26,368	26,929	25,956	24,349	22,608	21,948	21,510	21,539	21,681	21,854

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	18	54	78	117	138	151	172	181	192	207	213	238
30-39	19	61	142	201	322	417	487	525	569	626	678	793	907
40-49	19	43	121	195	278	376	458	515	575	687	824	989	1,190
50-59	17	46	132	232	357	460	554	634	701	788	1,014	1,230	1,509
60-64	*	18	68	119	145	226	312	354	441	506	581	722	859
65-69	*	13	43	82	100	159	219	273	338	408	498	617	767
70-79	*	*	36	69	53	118	156	210	245	295	389	506	672
80+	*	*	*	*	*	*	*	17	24	30	46	58	73
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	34	100	258	379	588	745	856	949	1,037	1,163	1,275	1,487	1,707
45-64	39	87	260	446	632	872	1,106	1,250	1,430	1,637	2,029	2,460	2,995
65-74	13	19	69	135	137	249	338	423	502	621	772	975	1,238
75+	*	*	11	23	22	34	46	77	105	112	160	206	274
Male	44	109	324	505	746	1,020	1,256	1,391	1,587	1,838	2,204	2,647	3,210
Female	42	100	274	479	637	884	1,097	1,315	1,493	1,700	2,036	2,483	3,010
White	67	182	482	759	1,084	1,492	1,834	2,046	2,310	2,656	3,188	3,848	4,611
Black	18	25	111	201	265	361	460	563	659	766	908	1,086	1,358
Native American	*	*	*	13	25	37	45	76	83	78	94	124	158
Asian	*	*	*	*	*	13	14	21	28	38	50	73	94
†Hispanic													
†Non-Hispanic													
All	86	209	598	984	1,383	1,903	2,353	2,706	3,080	3,538	4,240	5,131	6,221
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	250	241	243	207	189	167	127	122	112	111	105	99	
30-39	957	995	997	950	864	778	718	701	642	603	566	532	
40-49	1,324	1,386	1,555	1,672	1,542	1,422	1,335	1,276	1,220	1,221	1,200	1,161	
50-59	1,653	1,869	2,098	2,241	2,255	2,142	2,022	2,045	2,032	2,093	2,170	2,184	
60-64	993	1,040	1,159	1,263	1,230	1,184	1,103	1,073	1,063	1,067	1,081	1,132	
65-69	939	1,091	1,176	1,212	1,251	1,180	1,077	1,034	1,083	1,090	1,075	1,065	
70-79	808	965	1,076	1,174	1,233	1,217	1,226	1,178	1,145	1,178	1,218	1,240	
80+	84	88	109	140	167	160	141	144	153	200	223	214	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	1,819	1,864	1,898	1,873	1,708	1,557	1,400	1,387	1,260	1,214	1,145	1,098	
45-64	3,358	3,666	4,153	4,461	4,370	4,137	3,904	3,829	3,809	3,881	3,977	4,010	
65-74	1,524	1,773	1,936	2,049	2,103	1,998	1,906	1,830	1,820	1,849	1,841	1,858	
75+	308	372	424	477	548	558	539	527	561	620	675	661	
Male	3,605	3,970	4,356	4,580	4,520	4,316	4,050	3,958	3,973	4,069	4,069	4,081	
Female	3,408	3,713	4,061	4,282	4,213	3,939	3,705	3,620	3,480	3,497	3,572	3,547	
White	5,108	5,545	6,017	6,263	6,248	5,908	5,576	5,455	5,322	5,372	5,341	5,311	
Black	1,585	1,763	1,964	2,115	2,014	1,890	1,757	1,690	1,652	1,676	1,744	1,740	
Native American	180	184	206	203	177	182	165	154	164	175	186	175	
Asian	139	191	230	280	293	275	257	280	314	343	369	403	
†Hispanic				956	1,097	1,058	1,045	1,155	2,344	1,161	1,175	1,190	
†Non-Hispanic				7,981	7,765	7,324	6,815	6,523	12,737	6,501	6,568	6,533	
All	7,013	7,683	8,417	8,861	8,733	8,255	7,755	7,578	7,453	7,566	7,640	7,628	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	13	17	18	17	17	22	26	29
20-29	*	*	19	19	29	52	66	72	78	90	89	124	159
30-39	*	18	42	83	127	172	201	226	263	291	342	417	467
40-49	15	25	78	135	212	263	319	353	390	467	563	644	775
50-59	14	50	138	215	327	370	466	523	533	583	647	766	903
60-64	*	21	73	126	198	253	312	348	381	431	487	568	589
65-69	*	30	77	107	150	222	303	391	437	490	570	683	802
70-79	*	29	91	168	204	282	395	484	546	620	761	956	1,176
80+	*	*	19	37	32	43	69	92	102	130	168	207	255
0-19	*	*	*	*	*	13	17	18	17	17	22	26	29
20-44	*	33	98	160	244	343	416	464	528	614	686	835	1,003
45-64	31	85	252	418	649	767	948	1,058	1,118	1,248	1,442	1,683	1,889
65-74	*	49	138	221	275	404	558	692	780	872	1,025	1,242	1,498
75+	*	15	49	91	110	143	209	275	305	367	473	604	735
Male	33	97	280	510	763	983	1,228	1,423	1,582	1,773	2,069	2,516	2,941
Female	23	87	261	390	525	686	920	1,084	1,165	1,345	1,578	1,874	2,213
White	36	107	323	530	765	975	1,274	1,511	1,658	1,896	2,230	2,672	3,108
Black	20	76	212	357	505	676	851	962	1,050	1,163	1,346	1,618	1,929
Native American	*	*	*	*	*	*	*	*	*	22	22	35	33
Asian	*	*	*	*	12	12	15	23	29	38	50	64	84
†Hispanic													
†Non-Hispanic													
All	56	184	541	900	1,288	1,669	2,149	2,507	2,747	3,118	3,647	4,390	5,154

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	28	22	29	22	23	20	14	17	15	12	*	13
20-29	186	196	194	187	189	174	159	180	180	166	142	121
30-39	540	626	651	596	544	483	452	435	427	434	452	452
40-49	880	1,005	1,078	1,083	1,022	977	885	877	884	802	828	826
50-59	944	1,060	1,189	1,228	1,140	1,056	1,003	1,015	979	993	969	1,022
60-64	641	647	703	661	612	591	515	498	483	461	505	545
65-69	860	945	933	883	804	692	626	643	579	581	613	602
70-79	1,329	1,502	1,649	1,549	1,435	1,337	1,215	1,141	1,112	1,109	1,204	1,206
80+	303	360	399	424	399	395	376	386	398	426	445	500
0-19	28	22	29	22	23	20	14	17	15	12	*	13
20-44	1,138	1,282	1,331	1,319	1,215	1,105	995	1,006	993	928	919	915
45-64	2,053	2,253	2,484	2,436	2,292	2,177	2,018	1,998	1,960	1,927	1,978	2,052
65-74	1,666	1,857	1,911	1,769	1,610	1,447	1,326	1,257	1,179	1,171	1,263	1,266
75+	827	950	1,070	1,087	1,027	976	891	913	910	946	999	1,042
Male	3,236	3,690	3,939	3,816	3,511	3,213	2,900	2,872	2,819	2,772	2,836	2,917
Female	2,476	2,673	2,887	2,816	2,656	2,512	2,345	2,318	2,238	2,212	2,329	2,371
White	3,392	3,706	3,970	3,824	3,506	3,248	2,933	2,864	2,793	2,797	2,907	2,989
Black	2,181	2,479	2,631	2,549	2,401	2,224	2,054	2,052	1,996	1,903	1,970	1,995
Native American	30	33	36	36	33	31	27	33	26	32	33	30
Asian	109	145	188	223	227	221	232	241	242	252	255	274
†Hispanic				415	413	407	397	419	818	407	419	438
†Non-Hispanic				6,237	5,775	5,347	4,878	4,797	9,352	4,610	4,779	4,883
All	5,712	6,363	6,826	6,633	6,167	5,725	5,245	5,191	5,057	4,984	5,165	5,288

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	18	46	78	110	131	145	153	156	176	186	222	231
20-29	12	27	62	96	178	229	241	282	314	372	387	410	455
30-39	15	45	116	175	276	378	472	514	547	594	671	757	810
40-49	19	35	100	150	281	364	420	454	501	573	643	764	889
50-59	18	54	142	183	312	422	474	477	495	517	534	598	664
60-64	*	20	63	96	165	247	289	305	341	330	354	357	355
65-69	*	17	50	63	122	165	226	284	293	312	347	378	434
70-79	*	17	38	84	117	158	223	259	327	345	365	419	491
80+	*	*	*	13	12	17	29	33	36	40	50	57	72
0-19	*	18	46	78	110	131	145	153	156	176	186	222	231
20-44	36	87	226	349	595	789	940	1,042	1,134	1,268	1,384	1,600	1,767
45-64	33	93	257	351	618	851	957	990	1,064	1,118	1,205	1,287	1,405
65-74	*	28	79	128	207	281	380	460	514	542	584	645	749
75+	*	*	16	31	45	59	97	115	142	155	178	209	248
Male	45	136	350	526	914	1,187	1,425	1,551	1,695	1,842	1,987	2,242	2,499
Female	43	97	275	412	660	923	1,094	1,210	1,315	1,417	1,551	1,720	1,901
White	75	199	529	772	1,276	1,675	1,999	2,173	2,331	2,472	2,624	2,903	3,217
Black	12	30	83	145	249	363	436	499	566	671	780	901	996
Native American	*	*	*	*	19	27	31	29	40	36	36	39	43
Asian	*	*	*	14	31	46	53	60	73	80	99	119	144
†Hispanic													
†Non-Hispanic													
All	88	233	625	938	1,575	2,111	2,519	2,760	3,010	3,259	3,538	3,962	4,400
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	237	252	245	239	227	208	190	175	178	184	186	185	
20-29	511	538	569	588	574	541	498	439	447	423	386	402	
30-39	838	917	943	999	933	834	776	765	752	749	727	721	
40-49	974	1,075	1,130	1,216	1,235	1,154	1,065	973	945	866	881	891	
50-59	725	791	864	858	852	892	854	842	826	826	821	819	
60-64	402	405	413	449	441	378	331	311	307	286	286	304	
65-69	447	475	499	493	451	383	350	317	305	294	293	287	
70-79	560	627	680	686	684	645	577	510	468	459	440	428	
80+	80	99	115	118	118	125	110	112	108	105	120	107	
0-19	237	252	245	239	227	208	190	175	178	184	186	185	
20-44	1,866	2,024	2,111	2,214	2,111	1,953	1,805	1,671	1,659	1,597	1,531	1,556	
45-64	1,583	1,703	1,809	1,897	1,924	1,847	1,720	1,659	1,618	1,554	1,571	1,581	
65-74	809	887	943	934	890	766	712	643	595	564	547	540	
75+	278	314	351	363	362	386	325	296	287	294	307	281	
Male	2,673	2,836	2,953	3,029	2,902	2,671	2,430	2,231	2,172	2,091	2,071	2,091	
Female	2,101	2,344	2,505	2,617	2,613	2,488	2,321	2,213	2,165	2,101	2,070	2,052	
White	3,471	3,712	3,867	3,912	3,789	3,478	3,144	2,894	2,814	2,726	2,701	2,697	
Black	1,060	1,173	1,242	1,355	1,342	1,296	1,256	1,198	1,166	1,116	1,073	1,056	
Native American	50	54	56	60	71	74	67	53	60	59	57	67	
Asian	193	241	293	318	312	311	285	299	297	292	310	322	
†Hispanic				504	553	544	519	529	1,059	523	532	511	
†Non-Hispanic				5,155	4,982	4,634	4,253	3,940	7,688	3,718	3,655	3,678	
All	4,773	5,180	5,458	5,646	5,515	5,159	4,751	4,444	4,337	4,192	4,141	4,143	

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*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	14	27	78	137	203	239	298	285	304	311	343	339	390
20-29	*	23	68	100	192	221	234	269	308	313	320	388	419
30-39	*	28	89	140	238	306	341	347	373	442	491	577	672
40-49	14	50	127	178	338	383	437	467	476	537	603	709	821
50-59	28	92	247	331	510	619	691	680	726	682	712	768	793
60-64	*	39	140	172	292	361	440	457	449	435	450	472	457
65-69	12	38	99	156	216	303	385	415	416	427	426	449	503
70-79	14	36	105	163	222	314	399	436	457	457	494	515	595
80+	*	*	22	25	44	57	63	81	81	91	104	116	122
0-19	14	27	78	137	203	239	298	285	304	311	343	339	390
20-44	17	74	217	304	566	687	754	846	924	1,007	1,106	1,311	1,484
45-64	39	158	455	617	1,005	1,203	1,389	1,374	1,408	1,402	1,470	1,604	1,679
65-74	22	65	166	260	357	502	638	694	688	720	741	776	889
75+	*	18	60	84	125	172	209	239	266	256	283	305	331
Male	48	171	480	708	1,129	1,344	1,540	1,605	1,641	1,702	1,838	1,985	2,225
Female	53	170	496	693	1,128	1,458	1,748	1,833	1,949	1,993	2,104	2,349	2,548
White	87	302	819	1,174	1,897	2,346	2,748	2,859	2,975	3,011	3,154	3,459	3,723
Black	13	36	144	209	329	410	482	513	544	607	697	780	937
Native American	*	*	*	*	12	21	22	22	25	21	23	22	31
Asian	*	*	*	*	18	26	36	43	46	56	68	72	82
†Hispanic													
†Non-Hispanic													
All	101	341	976	1,401	2,257	2,803	3,289	3,437	3,590	3,695	3,942	4,334	4,773

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	394	399	380	411	407	394	340	352	378	380	402	391
20-29	431	496	468	454	449	440	403	379	372	405	390	393
30-39	741	837	875	856	801	735	692	665	625	630	629	594
40-49	877	946	978	1,016	1,017	990	919	890	903	909	861	904
50-59	901	994	1,029	1,078	1,067	960	923	917	904	942	921	963
60-64	475	501	499	508	436	397	346	322	326	346	355	375
65-69	500	535	545	561	508	477	465	417	390	378	392	373
70-79	647	690	719	733	691	649	610	641	613	621	611	618
80+	129	169	175	171	167	166	161	152	153	187	174	183
0-19	394	399	380	411	407	394	340	352	378	380	402	391
20-44	1,601	1,797	1,797	1,781	1,738	1,658	1,532	1,477	1,441	1,466	1,411	1,422
45-64	1,823	1,976	2,051	2,132	2,032	1,865	1,750	1,696	1,688	1,765	1,744	1,808
65-74	910	987	1,022	1,017	917	847	819	793	750	734	743	741
75+	366	408	417	448	448	446	417	417	407	452	435	433
Male	2,374	2,566	2,588	2,605	2,477	2,320	2,207	2,177	2,105	2,149	2,138	2,163
Female	2,721	3,000	3,079	3,184	3,065	2,889	2,651	2,559	2,558	2,648	2,597	2,632
White	3,989	4,287	4,304	4,395	4,155	3,866	3,581	3,479	3,403	3,480	3,429	3,489
Black	957	1,094	1,150	1,158	1,138	1,104	1,046	1,025	1,023	1,077	1,073	1,096
Native American	30	34	40	44	47	43	45	40	41	44	40	31
Asian	118	152	173	192	202	196	185	192	197	195	193	178
†Hispanic				508	521	509	472	457	930	491	526	519
†Non-Hispanic				5,301	5,052	4,737	4,418	4,315	8,474	4,355	4,268	4,345
All	5,094	5,567	5,668	5,789	5,542	5,210	4,857	4,736	4,663	4,797	4,735	4,794

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	44	106	244	370	563	608	700	726	720	750	798	831	912
20-29	51	142	327	452	742	879	1,009	1,097	1,227	1,301	1,384	1,547	1,686
30-39	97	275	613	888	1,328	1,743	2,067	2,188	2,394	2,628	2,938	3,424	3,792
40-49	117	270	646	976	1,506	1,850	2,219	2,437	2,635	3,056	3,527	4,178	4,833
50-59	156	433	975	1,381	2,046	2,491	2,893	3,100	3,280	3,481	3,941	4,522	5,148
60-64	50	204	523	785	1,118	1,492	1,832	1,977	2,176	2,298	2,562	2,877	3,102
65-69	49	190	442	622	830	1,206	1,584	1,880	2,076	2,255	2,592	3,004	3,407
70-79	67	183	483	761	889	1,319	1,724	2,049	2,283	2,511	2,912	3,462	4,196
80+	15	33	96	137	158	209	263	341	393	472	570	683	794
0-19	44	106	244	370	563	608	700	726	720	750	798	831	912
20-44	197	544	1,248	1,796	2,781	3,489	4,129	4,514	4,956	5,447	6,037	7,078	7,900
45-64	274	780	1,836	2,686	3,959	4,966	5,891	6,285	6,756	7,317	8,315	9,470	10,661
65-74	97	316	758	1,145	1,401	2,078	2,704	3,205	3,513	3,848	4,422	5,169	6,059
75+	34	90	263	375	476	656	867	1,065	1,239	1,390	1,652	1,980	2,338
Male	332	955	2,272	3,385	5,025	6,334	7,695	8,367	9,103	9,969	11,280	13,098	14,922
Female	314	881	2,077	2,987	4,155	5,463	6,596	7,428	8,081	8,783	9,944	11,430	12,948
White	526	1,498	3,417	4,921	7,106	9,153	11,020	12,034	13,039	14,071	15,760	18,068	20,341
Black	111	318	875	1,334	1,887	2,387	2,956	3,388	3,700	4,196	4,865	5,728	6,644
Native American	*	13	25	61	88	122	151	186	214	216	247	295	347
Asian	*	*	32	56	99	135	164	187	231	269	352	437	538
†Hispanic													
†Non-Hispanic													
All	646	1,836	4,349	6,372	9,180	11,797	14,291	15,795	17,184	18,752	21,224	24,528	27,870
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	948	967	966	947	920	859	792	769	801	828	839	824	
20-29	1,819	1,938	1,894	1,846	1,764	1,621	1,487	1,373	1,371	1,341	1,258	1,238	
30-39	4,039	4,403	4,409	4,267	3,939	3,540	3,291	3,188	3,012	2,947	2,881	2,817	
40-49	5,335	5,727	6,108	6,328	6,020	5,631	5,217	4,980	4,893	4,667	4,676	4,662	
50-59	5,635	6,240	6,756	6,944	6,883	6,509	6,192	6,128	6,098	6,207	6,189	6,261	
60-64	3,411	3,441	3,727	3,795	3,590	3,364	3,059	2,938	2,908	2,840	2,904	3,047	
65-69	3,793	4,134	4,302	4,248	4,004	3,670	3,344	3,263	3,203	3,163	3,199	3,056	
70-79	4,751	5,391	5,684	5,800	5,565	5,345	5,016	4,778	4,658	4,652	4,685	4,723	
80+	911	1,086	1,219	1,281	1,313	1,273	1,175	1,170	1,246	1,362	1,435	1,449	
0-19	948	967	966	947	920	859	792	769	801	828	839	824	
20-44	8,438	9,095	9,144	9,079	8,512	7,767	7,129	6,850	6,595	6,340	6,138	6,148	
45-64	11,801	12,654	13,750	14,101	13,684	12,898	12,117	11,757	11,687	11,662	11,770	11,877	
65-74	6,811	7,576	7,927	7,881	7,423	6,877	6,383	6,128	5,933	5,845	5,884	5,833	
75+	2,644	3,035	3,278	3,448	3,459	3,411	3,152	3,083	3,174	3,332	3,435	3,395	
Male	16,266	17,650	18,597	18,650	17,719	16,473	15,274	14,763	14,645	14,532	14,559	14,660	
Female	14,376	15,677	16,468	16,806	16,279	15,339	14,299	13,824	13,545	13,475	13,507	13,417	
White	22,162	23,749	24,734	24,908	23,864	22,219	20,517	19,757	19,381	19,233	19,100	19,171	
Black	7,380	8,214	8,783	8,838	8,431	7,950	7,481	7,233	7,135	7,048	7,177	7,100	
Native American	371	410	432	439	414	406	378	353	376	382	393	375	
Asian	729	954	1,116	1,271	1,289	1,237	1,197	1,244	1,298	1,344	1,396	1,431	
†Hispanic				3,119	3,343	3,234	3,121	3,297	6,538	3,264	3,350	3,326	
†Non-Hispanic				32,525	30,924	28,854	26,696	25,537	50,342	25,026	25,020	25,089	
All	30,642	33,327	35,065	35,456	33,998	31,812	29,573	28,587	28,190	28,007	28,066	28,077	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	13	12	*	*	*	*	11
20-29	15	42	102	144	210	231	253	276	284	300	312	333	356
30-39	49	126	234	334	477	630	747	791	867	918	1,009	1,151	1,307
40-49	35	83	212	315	430	547	704	782	841	1,014	1,200	1,448	1,701
50-59	33	108	226	380	552	691	832	943	1,044	1,165	1,487	1,777	2,116
60-64	16	51	128	202	243	345	485	533	653	735	879	1,051	1,275
65-69	*	30	83	142	160	253	352	449	533	636	788	974	1,132
70-79	14	18	75	113	108	191	261	349	405	482	630	828	1,048
80+	*	*	*	11	11	*	15	28	40	54	71	99	118
0-19	*	*	*	*	*	*	13	12	*	*	*	*	11
20-44	75	207	443	638	917	1,136	1,332	1,453	1,572	1,726	1,892	2,200	2,476
45-64	73	203	459	737	995	1,308	1,689	1,872	2,117	2,406	2,995	3,560	4,279
65-74	21	44	135	227	238	394	548	704	800	973	1,228	1,552	1,872
75+	*	*	27	39	41	59	80	122	178	199	261	349	426
Male	88	233	557	828	1,168	1,563	1,943	2,119	2,418	2,763	3,280	3,978	4,670
Female	84	226	509	815	1,031	1,343	1,719	2,044	2,259	2,550	3,106	3,688	4,394
White	143	389	854	1,284	1,737	2,318	2,885	3,206	3,602	4,086	4,902	5,878	6,869
Black	27	66	200	320	411	511	678	824	917	1,060	1,268	1,519	1,848
Native American	*	*	*	24	40	57	77	107	117	113	139	172	211
Asian	*	*	*	15	11	20	22	26	41	54	77	97	136
†Hispanic													
†Non-Hispanic													
All	172	459	1,066	1,643	2,199	2,906	3,662	4,163	4,677	5,313	6,386	7,666	9,064
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	13	*	*	*	*	*	*	*	*	*	*	
20-29	371	358	353	311	274	234	186	170	160	153	146	139	
30-39	1,351	1,449	1,393	1,319	1,201	1,068	964	939	871	799	758	713	
40-49	1,869	1,963	2,145	2,297	2,065	1,900	1,783	1,709	1,622	1,597	1,582	1,528	
50-59	2,349	2,642	2,896	3,060	3,104	2,926	2,758	2,740	2,741	2,813	2,828	2,860	
60-64	1,423	1,463	1,654	1,759	1,686	1,633	1,544	1,489	1,484	1,446	1,443	1,493	
65-69	1,380	1,572	1,741	1,741	1,771	1,664	1,509	1,471	1,540	1,498	1,495	1,437	
70-79	1,263	1,484	1,639	1,801	1,838	1,818	1,795	1,729	1,681	1,722	1,727	1,741	
80+	137	152	184	228	291	276	239	221	261	324	339	323	
0-19	*	13	*	*	*	*	*	*	*	*	*	*	
20-44	2,592	2,698	2,666	2,619	2,363	2,120	1,896	1,877	1,704	1,605	1,539	1,493	
45-64	4,771	5,177	5,775	6,127	5,967	5,641	5,339	5,170	5,174	5,203	5,218	5,240	
65-74	2,280	2,602	2,883	2,996	3,015	2,868	2,688	2,616	2,598	2,575	2,559	2,528	
75+	500	606	681	774	885	890	855	805	884	969	1,002	973	
Male	5,203	5,686	6,208	6,475	6,356	6,013	5,646	5,489	5,539	5,576	5,521	5,504	
Female	4,947	5,410	5,804	6,044	5,880	5,513	5,139	4,986	4,825	4,779	4,801	4,732	
White	7,592	8,216	8,782	9,095	8,997	8,444	7,926	7,720	7,566	7,516	7,380	7,310	
Black	2,122	2,368	2,651	2,774	2,623	2,493	2,303	2,187	2,162	2,166	2,222	2,204	
Native American	235	260	270	268	228	233	214	198	220	221	235	224	
Asian	201	252	309	382	388	356	342	370	416	452	485	498	
†Hispanic				1,338	1,481	1,421	1,403	1,544	3,078	1,512	1,551	1,542	
†Non-Hispanic				11,298	10,929	10,271	9,521	9,068	17,898	8,967	8,901	8,824	
All	10,150	11,096	12,012	12,519	12,236	11,526	10,785	10,475	10,364	10,355	10,322	10,236	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	16	16	23	24	25	24	27	35	44	42
20-29	*	12	30	26	49	69	96	98	112	123	130	173	212
30-39	11	25	73	116	168	220	266	290	349	373	434	533	594
40-49	23	39	116	185	272	338	403	452	501	602	709	836	973
50-59	34	83	212	304	433	504	591	667	703	763	846	988	1,167
60-64	15	39	117	202	270	360	416	482	510	579	662	751	768
65-69	13	59	130	168	219	316	435	531	606	668	800	941	1,087
70-79	18	59	169	261	302	460	587	720	804	936	1,126	1,359	1,678
80+	*	12	40	63	53	80	103	150	167	218	281	339	391
0-19	*	*	*	16	16	23	24	25	24	27	35	44	42
20-44	22	56	156	221	337	442	547	597	697	790	887	1,096	1,274
45-64	64	142	392	612	855	1,049	1,225	1,392	1,478	1,650	1,894	2,185	2,440
65-74	24	100	238	341	399	608	798	976	1,102	1,242	1,462	1,726	2,072
75+	11	30	101	151	175	248	327	425	475	580	745	913	1,084
Male	68	168	472	766	1,064	1,384	1,689	1,967	2,193	2,463	2,901	3,424	3,996
Female	55	165	425	575	718	986	1,232	1,448	1,583	1,826	2,122	2,540	2,916
White	81	204	561	817	1,077	1,467	1,820	2,142	2,373	2,733	3,208	3,770	4,348
Black	40	125	326	507	681	877	1,068	1,231	1,348	1,478	1,716	2,067	2,405
Native American	*	*	*	*	*	*	11	14	16	30	34	43	43
Asian	*	*	*	*	17	18	22	28	39	48	65	84	116
†Hispanic													
†Non-Hispanic													
All	123	333	897	1,341	1,782	2,370	2,921	3,415	3,776	4,289	5,023	5,964	6,912

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	42	33	39	31	32	28	17	25	20	17	*	20
20-29	249	264	239	241	231	208	194	214	217	197	167	145
30-39	680	763	782	714	647	560	532	513	502	503	527	535
40-49	1,101	1,228	1,303	1,282	1,219	1,143	1,041	1,038	1,039	949	983	962
50-59	1,180	1,328	1,468	1,471	1,386	1,297	1,237	1,219	1,199	1,211	1,194	1,227
60-64	852	839	909	833	792	736	654	638	611	590	633	681
65-69	1,179	1,268	1,231	1,158	1,045	911	817	830	769	778	808	773
70-79	1,920	2,148	2,224	2,107	1,942	1,834	1,659	1,552	1,548	1,509	1,600	1,620
80+	474	564	616	640	598	581	548	569	595	621	679	722
0-19	42	33	39	31	32	28	17	25	20	17	*	20
20-44	1,430	1,591	1,608	1,576	1,456	1,289	1,175	1,180	1,170	1,092	1,083	1,083
45-64	2,632	2,831	3,093	2,965	2,819	2,655	2,483	2,442	2,398	2,358	2,421	2,467
65-74	2,306	2,545	2,535	2,353	2,135	1,923	1,755	1,663	1,600	1,575	1,658	1,646
75+	1,267	1,435	1,536	1,552	1,450	1,403	1,269	1,288	1,312	1,333	1,429	1,469
Male	4,365	4,903	5,107	4,919	4,508	4,118	3,714	3,652	3,638	3,546	3,668	3,716
Female	3,312	3,532	3,704	3,558	3,384	3,180	2,985	2,946	2,862	2,829	2,932	2,969
White	4,770	5,158	5,327	5,112	4,691	4,359	3,935	3,815	3,779	3,748	3,879	3,947
Black	2,729	3,041	3,202	3,044	2,878	2,638	2,450	2,437	2,390	2,287	2,367	2,365
Native American	38	41	41	41	43	36	33	43	36	40	40	38
Asian	140	195	241	280	280	265	281	303	295	300	314	335
†Hispanic				526	527	514	502	529	1,010	511	521	529
†Non-Hispanic				7,976	7,395	6,825	6,231	6,101	12,058	5,907	6,118	6,204
All	7,677	8,435	8,811	8,477	7,892	7,298	6,699	6,598	6,500	6,375	6,600	6,685

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*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	19	37	91	128	201	210	228	252	248	278	277	309	328
20-29	22	45	95	138	239	293	335	369	422	478	523	541	601
30-39	25	71	179	240	365	486	601	654	683	768	859	969	1,021
40-49	33	56	136	208	361	462	541	589	664	736	823	968	1,093
50-59	38	90	197	249	397	515	598	594	627	671	693	765	855
60-64	*	36	87	126	209	315	357	384	425	422	448	477	462
65-69	*	28	77	91	153	218	297	363	383	400	450	488	547
70-79	11	29	67	125	158	221	299	358	425	463	493	572	656
80+	*	*	16	17	18	31	46	47	61	59	67	80	107
0-19	19	37	91	128	201	210	228	252	248	278	277	309	328
20-44	63	143	338	491	780	1,006	1,225	1,350	1,464	1,635	1,811	2,062	2,246
45-64	63	155	356	470	791	1,065	1,207	1,240	1,357	1,440	1,535	1,658	1,786
65-74	14	48	129	185	261	377	501	599	669	700	759	845	959
75+	*	11	31	48	68	93	141	169	200	222	251	295	351
Male	84	224	528	750	1,225	1,558	1,904	2,072	2,243	2,448	2,653	2,986	3,252
Female	79	170	417	572	876	1,193	1,398	1,538	1,695	1,827	1,980	2,183	2,418
White	138	338	795	1,089	1,704	2,198	2,637	2,851	3,080	3,278	3,485	3,842	4,229
Black	23	51	135	200	329	459	553	644	720	859	980	1,123	1,209
Native American	*	*	*	13	22	32	38	36	50	44	43	49	52
Asian	*	*	11	20	46	62	74	79	88	94	125	155	180
†Hispanic													
†Non-Hispanic													
All	163	394	945	1,322	2,101	2,751	3,302	3,610	3,938	4,275	4,633	5,169	5,670
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	353	351	355	336	321	290	267	249	241	255	259	256	
20-29	645	695	720	727	715	660	610	538	548	504	475	486	
30-39	1,044	1,133	1,155	1,176	1,119	1,007	939	927	899	904	862	859	
40-49	1,217	1,331	1,408	1,471	1,472	1,389	1,260	1,139	1,130	1,040	1,053	1,079	
50-59	939	1,015	1,086	1,086	1,047	1,091	1,031	1,015	1,016	986	1,018	979	
60-64	510	515	524	571	551	481	412	392	386	353	360	377	
65-69	575	609	628	628	553	489	434	413	383	372	376	362	
70-79	711	816	867	898	869	808	740	647	600	591	551	542	
80+	106	136	163	168	177	174	159	152	148	145	160	147	
0-19	353	351	355	336	321	290	267	249	241	255	259	256	
20-44	2,337	2,531	2,620	2,658	2,563	2,350	2,168	2,010	1,997	1,911	1,833	1,865	
45-64	2,018	2,158	2,273	2,373	2,341	2,278	2,084	2,001	1,982	1,876	1,935	1,915	
65-74	1,026	1,143	1,184	1,208	1,099	976	884	812	751	713	688	684	
75+	366	418	474	486	500	495	449	400	380	395	399	367	
Male	3,498	3,678	3,830	3,847	3,645	3,343	3,031	2,800	2,721	2,613	2,594	2,652	
Female	2,602	2,923	3,076	3,214	3,179	3,046	2,821	2,672	2,630	2,537	2,520	2,435	
White	4,510	4,796	4,973	5,018	4,807	4,421	3,962	3,673	3,559	3,436	3,391	3,407	
Black	1,291	1,414	1,501	1,584	1,551	1,502	1,461	1,387	1,368	1,290	1,286	1,226	
Native American	60	67	74	76	87	85	79	64	71	71	67	75	
Asian	239	324	358	383	379	381	350	348	353	353	370	379	
†Hispanic				635	682	664	637	639	1,272	631	640	621	
†Non-Hispanic				6,446	6,168	5,749	5,243	4,862	9,522	4,577	4,530	4,532	
All	6,100	6,601	6,906	7,061	6,824	6,389	5,852	5,472	5,351	5,150	5,114	5,087	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	23	64	141	224	338	366	435	437	438	436	476	473	531
20-29	11	43	100	144	244	286	325	354	409	400	419	500	517
30-39	12	53	127	198	318	407	453	453	495	569	636	771	870
40-49	26	92	182	268	443	503	571	614	629	704	795	926	1,066
50-59	51	152	340	448	664	781	872	896	906	882	915	992	1,010
60-64	11	78	191	255	396	472	574	578	588	562	573	598	597
65-69	21	73	152	221	298	419	500	537	554	551	554	601	641
70-79	24	77	172	262	321	447	577	622	649	630	663	703	814
80+	*	18	36	46	76	89	99	116	125	141	151	165	178
0-19	23	64	141	224	338	366	435	437	438	436	476	473	531
20-44	37	138	311	446	747	905	1,025	1,114	1,223	1,296	1,447	1,720	1,904
45-64	74	280	629	867	1,318	1,544	1,770	1,781	1,804	1,821	1,891	2,067	2,156
65-74	38	124	256	392	503	699	857	926	942	933	973	1,046	1,156
75+	16	44	104	137	192	256	319	349	386	389	395	423	477
Male	92	330	715	1,041	1,568	1,829	2,159	2,209	2,249	2,295	2,446	2,710	3,004
Female	96	320	726	1,025	1,530	1,941	2,247	2,398	2,544	2,580	2,736	3,019	3,220
White	164	567	1,207	1,731	2,588	3,170	3,678	3,835	3,984	3,974	4,165	4,578	4,895
Black	21	76	214	307	466	540	657	689	715	799	901	1,019	1,182
Native American	*	*	11	14	19	25	25	29	31	29	31	31	41
Asian	*	*	*	14	25	35	46	54	63	73	85	101	106
†Hispanic													
†Non-Hispanic													
All	188	650	1,441	2,066	3,098	3,770	4,406	4,607	4,793	4,875	5,182	5,729	6,224

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	546	570	565	577	561	534	501	488	536	553	567	546
20-29	554	621	582	567	544	519	497	451	446	487	470	468
30-39	964	1,058	1,079	1,058	972	905	856	809	740	741	734	710
40-49	1,148	1,205	1,252	1,278	1,264	1,199	1,133	1,094	1,102	1,081	1,058	1,093
50-59	1,167	1,255	1,306	1,327	1,346	1,195	1,166	1,154	1,142	1,197	1,149	1,195
60-64	626	624	640	632	561	514	449	419	427	451	468	496
65-69	659	685	702	721	635	606	584	549	511	515	520	484
70-79	857	943	954	994	916	885	822	850	829	830	807	820
80+	194	234	256	245	247	242	229	228	242	272	257	257
0-19	546	570	565	577	561	534	501	488	536	553	567	546
20-44	2,079	2,275	2,250	2,226	2,130	2,008	1,890	1,783	1,724	1,732	1,683	1,707
45-64	2,380	2,488	2,609	2,636	2,557	2,324	2,211	2,144	2,133	2,225	2,196	2,255
65-74	1,199	1,286	1,325	1,324	1,174	1,110	1,056	1,037	984	982	979	975
75+	511	576	587	636	624	623	579	590	598	635	605	586
Male	3,200	3,383	3,452	3,409	3,210	2,999	2,883	2,822	2,747	2,797	2,776	2,788
Female	3,515	3,812	3,884	3,990	3,836	3,600	3,354	3,220	3,228	3,330	3,254	3,281
White	5,290	5,579	5,652	5,683	5,369	4,995	4,694	4,549	4,477	4,533	4,450	4,507
Black	1,238	1,391	1,429	1,436	1,379	1,317	1,267	1,222	1,215	1,305	1,302	1,305
Native American	38	42	47	54	56	52	52	48	49	50	51	38
Asian	149	183	208	226	242	235	224	223	234	239	227	219
†Hispanic				620	653	635	579	585	1,178	610	638	634
†Non-Hispanic				6,805	6,432	6,009	5,701	5,506	10,864	5,575	5,471	5,529
All	6,715	7,195	7,336	7,399	7,046	6,599	6,237	6,042	5,975	6,127	6,030	6,069

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.20.4 (supplement)

Annual mortality rates: CAPD/CCPD patients, unadjusted

per 1,000 patient years at risk, period prevalent patients, 2004, by age as of January 1, gender, race, & primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All
0-19	77.2	70.9	68.4	25	74	80	70.7	67.1	25.5	60.8	77.2	70.9	67.8	25.2	74
20-29	105.3	97.9	94.8	39.7	102.3	115.9	100.1	93.2	40.7	107.6	110.3	99.4	93.2	40.3	105.2
30-39	118.3	100	96.8	46.8	111.8	116.4	100.5	96.8	48.6	111.2	117.3	100.3	96.8	47.4	111.5
40-49	165.3	142.7	142	78.5	156.5	170.2	146.1	142.7	80.7	160	167.5	144.5	142.4	79.4	158.1
50-59	220.1	178.1	177.4	118.3	203.6	242.4	193.8	175.6	117.3	219.1	229.3	186.1	176.3	117.9	210.5
60-64	291.5	229.3	233.5	167.5	270.7	297.9	227.4	231.4	180.2	271.5	294.2	228.2	232.3	171.6	271.1
65-69	347.4	273.1	261.9	211.5	323.3	345.7	258.1	263.4	228.9	316.2	346.6	264.7	262.8	219.1	319.8
70-79	434.9	326.5	331.2	323.6	410.6	449.3	358.8	332.9	339.4	420.8	441.2	344.2	332.2	331.1	415.3
80+	592.2	466.9	468.6	519.9	573.8	652.7	491.1	472.3	541.1	617.9	617.2	481.2	470.1	526.5	592.6
All	278.8	204.7	203.4	185.9	257.7	287.8	216.4	201.1	201.4	262.6	282.8	211	202.1	192.2	260
HYPERTENSION															
0-19	27.5	29.5	32.2	7	28.5	26.3	27.3	29.2	6.6	26.9	27.2	28.2	32.2	6.8	27.9
20-29	43.3	46.3	50	12.6	43.4	41.6	41.7	45.6	11.9	39.6	42.4	43.7	45.6	12.1	41.3
30-39	50.8	52.1	57.5	16.7	49.8	49.4	47.3	52.6	15.8	46.4	50.3	49.8	55.7	16.3	48.3
40-49	88.3	87.1	93.8	31	84.3	81.9	79.2	85.9	29.8	76.9	85.4	83.2	87.6	30.4	80.7
50-59	119	124.5	134	51.6	118	118.9	113.7	122.9	48.5	111.7	119	119.2	130.1	50.1	115
60-64	184.6	167.9	192.1	84	172.9	180.4	160.5	176.9	80.7	165.3	182.6	164.3	178.4	82.1	169.2
65-69	243.7	214.9	246	125.1	233.3	235.5	208.9	228.9	120.3	222.2	240.4	211.4	237.5	122.9	228.2
70-79	328.2	316.2	347.6	198.9	320.5	341.7	289.3	326.5	198.7	324.3	333.2	301.3	334.8	198.8	322
80+	524.6	489.6	549.2	362.1	516.7	530.8	470.3	516.6	360.3	512.9	526.8	477.3	518.4	361.3	515.2
All	267	132.6	147.6	111.9	213.5	248.7	133	165.3	100.3	190.6	259.6	132.8	157.5	106.4	203.2
GLOMERULONEPHRITIS															
0-19	26.5	31	20.4	7.9	27.6	23.8	26.8	17.4	7	23.8	25.1	28.8	17.4	7.3	25.6
20-29	41.1	46.6	30.8	13.8	40	37.1	40.5	26.4	12.4	36.5	39	43.3	30.1	13.1	38.2
30-39	46.1	53.8	34.7	17.8	46.2	42.1	45.8	30.1	15.9	41.2	43.9	49	32.9	16.7	43.4
40-49	77.5	82.6	55	32.4	74.3	69.2	74.4	47.5	29	66.5	73.7	77.9	49.9	30.6	70.4
50-59	110.6	116.1	76.6	52.1	107.5	99.9	100.9	66.3	47.4	92.4	105.6	108.1	70.8	48.9	99.9
60-64	143.7	158	106.6	83.4	142.2	143.4	139.9	92.9	75.4	137.7	143.6	150.6	99.8	79.7	140.2
65-69	197.6	199.3	134.2	120	192.6	180.6	179.3	116.9	108.7	176.4	191.2	186.2	125.4	116.6	186
70-79	268.6	274.2	184.5	193.2	264.5	241.5	245	161.7	171.9	236.7	258	256.3	173.1	183.3	253.2
80+	429	423.4	284.7	336.2	425.3	402.1	376.3	250.4	309.4	394.6	421.4	380.7	284.7	320.7	416
All	136.7	86.6	68.9	56.9	119.4	105	76.2	56.7	46.4	90.8	122.2	80.8	62.6	51.1	105.4
OTHER															
0-19	37.9	45.7	50.7	16.7	39.2	37.1	43.4	46.8	16	38.4	37.5	44.7	47.8	16.5	38.8
20-29	54.8	66.9	74.3	28.3	56.4	55	66.3	69.2	27	57.1	54.9	66.5	71.1	27.3	56.8
30-39	63.8	76.7	81.3	35.4	66.6	60.5	68.7	75.6	33.9	61.8	61.8	71.2	79	34.3	63.5
40-49	97.6	107.7	125.6	62.6	99.4	101.4	102.6	116.1	60.5	100.5	99.7	104.2	116.9	61.1	100.1
50-59	131.4	149.1	169.7	96.6	133.6	128.7	138.3	158.7	95.8	130.3	129.9	142.8	163.3	96.3	131.8
60-64	187.5	201.3	227.8	151.2	189.2	197.5	194.7	216.6	147.1	195.8	192.9	197.6	224.3	148.1	192.8
65-69	239.2	245.8	276.4	210.8	239.1	220.7	231.3	263.5	206.8	221.5	229.2	236.8	276.4	208.7	229.5
70-79	319.3	324.3	367	323.5	320.3	308.8	320	350.6	318.4	309.8	314.7	322.4	363.8	321	315.7
80+	481	481.3	553.8	555.8	481.5	501.5	467.6	526.5	552.8	499.3	487.7	470.4	526.5	553.8	487.9
All	176.1	119.9	201.3	109.4	163.5	151.7	109.8	141	93.5	138.5	163.4	113.6	167.5	100.1	149.8
ALL															
0-19	34.7	41.4	41.4	15.7	35.9	33	36.5	32.1	11.1	33.3	33.8	39.1	34.4	14	34.7
20-29	54.3	55.8	43.3	17.1	52.5	52.6	56.9	64.3	20	52.2	53.4	56.5	53.6	18.8	52.3
30-39	74.6	64.8	59.2	24.7	68.1	69.9	60.4	61.6	24.3	63.4	72.1	62.3	60.3	24.5	65.5
40-49	119.3	101	115	47.1	109.4	115.9	97	101.6	43.3	104.2	117.7	98.8	106.5	45.1	106.7
50-59	170.2	146.9	157.8	88.5	158.6	169.8	145.7	159.2	73.8	155.7	170	146.3	158.6	81.3	157.2
60-64	232.3	193.5	207.8	139.1	218.4	231.9	194.5	205.4	126.4	216.4	232.2	194	206.4	133.6	217.5
65-69	279.7	245.4	237.2	182.3	268.7	275.4	231	239.9	195	260.8	277.7	237.1	238.7	187.8	264.9
70-79	351.2	320	334.2	260.7	343.4	358.9	323.6	320.7	270.4	347.9	354.3	322	327.3	265.1	345.3
80+	515.5	480.6	401.6	435.2	510.3	541.4	472.3	502.9	418.7	525.4	524.6	475.2	452.9	428	516.1
All	227	144.1	163.7	127	201.6	207.8	141.4	161.6	109.8	181.6	218.2	142.6	162.6	118.6	192

U.S. only; patients of unknown age or gender, or of other or unknown race, are excluded so that rates can be calculated appropriately. Includes all patients who have reached day 91 of ESRD by January 1 of each calendar year.

Table H.21
Total patient deaths: CAPD/CCPD patients, never on transplant waitlist

by demographic characteristics, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-4	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13	*	*	*	*	*	*	11
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	.	.	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15-19	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	*	14	26	36	38	54	38	61	60	54	60	55	51	70	53	52	36	35	39	28	28	29	45	22	
30-39	*	23	53	58	97	142	177	177	192	198	182	201	249	266	259	261	231	211	155	146	124	112	132	94	91	
40-49	13	25	55	111	167	194	279	262	278	276	335	359	443	489	482	525	523	458	407	354	347	318	331	267	272	
50-59	23	46	121	198	265	392	445	470	529	523	543	620	706	772	843	919	915	903	856	771	740	695	657	637	571	
60-64	11	27	85	147	220	279	372	402	440	452	496	541	574	682	647	664	710	692	639	564	517	482	443	439	448	
65-69	*	37	88	166	192	296	387	465	540	521	582	711	781	887	889	1,006	968	925	842	719	709	676	613	574	519	
70-79	19	38	128	219	258	399	521	631	730	763	867	993	1,229	1,391	1,619	1,692	1,838	1,679	1,638	1,534	1,438	1,315	1,251	1,191	1,206	
80+	*	*	32	57	64	95	129	148	190	216	233	284	334	388	464	554	577	595	545	508	506	528	534	575	562	
0-19	*	*	*	12	19	24	15	17	21	18	19	21	22	13	19	26	25	23	16	24	15	17	14	19	17	
20-44	16	41	93	130	220	270	347	337	373	393	387	436	504	526	528	542	504	430	355	329	293	266	284	239	208	
45-64	42	84	235	410	565	775	980	1,012	1,127	1,116	1,223	1,345	1,523	1,734	1,773	1,880	1,927	1,870	1,737	1,545	1,463	1,369	1,308	1,243	1,196	
65-74	22	59	165	300	350	538	706	834	960	964	1,082	1,287	1,513	1,668	1,848	2,029	2,028	1,893	1,747	1,562	1,512	1,384	1,267	1,206	1,164	
75+	16	22	83	142	164	252	331	410	500	536	600	701	831	998	1,124	1,223	1,355	1,306	1,278	1,199	1,141	1,135	1,131	1,134	1,123	
Male	50	112	322	487	737	980	1,340	1,409	1,627	1,660	1,823	2,091	2,476	2,660	2,851	3,108	3,157	2,961	2,710	2,425	2,367	2,204	2,104	2,109	2,030	
Female	47	98	261	507	581	879	1,039	1,201	1,354	1,367	1,488	1,699	1,917	2,279	2,441	2,592	2,682	2,561	2,423	2,234	2,057	1,967	1,900	1,732	1,678	
Unknown																										
White	79	180	468	793	1,063	1,491	1,935	2,097	2,422	2,454	2,639	3,002	3,512	3,932	4,168	4,405	4,465	4,311	4,002	3,585	3,423	3,219	3,126	2,941	2,857	
Black	15	29	106	186	230	321	396	472	488	517	588	721	799	900	997	1,144	1,158	988	929	850	784	769	700	696	669	
Native American	*	.	*	*	11	23	21	26	41	36	45	38	39	51	58	50	65	53	52	53	46	38	36	49	39	
Asian	.	.	*	*	18	19	*	22	16	35	27	43	56	67	96	132	125	97	123	120	105	112	121	105		
Other/unknown	*	*	*	*	*	*	*	*	*	*	*	*	.	.	*	*	19	45	53	48	51	40	30	34	38	
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	326	433	427	365	364	411	347	375	347
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5,513	5,089	4,706	4,294	4,060	3,760	3,657	3,466	3,361
Diabetes	41	78	200	363	419	612	830	950	1,021	1,056	1,307	1,517	1,788	2,126	2,313	2,514	2,706	2,680	2,559	2,275	2,173	2,030	1,963	1,850	1,773	
Hypertension	19	37	134	230	265	451	491	586	715	754	850	1,021	1,200	1,392	1,457	1,607	1,543	1,418	1,242	1,139	1,086	1,071	953	996	985	
Glomerulonephritis	*	23	79	110	160	251	338	354	440	465	471	484	571	550	641	642	668	604	552	528	449	414	390	353	313	
Cystic kidney	*	*	11	37	61	66	90	94	106	108	101	107	116	138	132	153	130	133	123	105	101	92	100	76	74	
Other urologic	*	*	19	28	38	45	68	72	80	73	75	87	95	87	96	96	117	121	103	108	124	108	111	90	108	
Other cause	16	21	47	98	135	176	245	272	287	269	309	354	408	461	456	505	502	398	389	362	346	326	335	341	322	
Unknown cause	*	25	54	80	81	118	145	137	176	154	118	161	162	147	162	171	159	162	161	139	141	126	145	130	122	
Missing disease	*	12	39	48	159	140	172	145	156	148	80	59	53	38	35	12	14	*	*	*	*	*	*	*	11	
<2 years	92	190	502	832	935	1,280	1,506	1,676	1,863	1,876	2,095	2,397	2,752	3,022	3,163	3,260	3,272	3,021	2,739	2,452	2,313	2,193	2,092	2,057	1,914	
2-<5 years	*	18	66	118	272	424	614	640	767	781	817	952	1,135	1,396	1,542	1,830	1,849	1,857	1,743	1,567	1,476	1,369	1,304	1,258	1,247	
5+ years	*	*	15	44	111	155	259	294	351	370	399	441	506	521	587	610	718	644	651	640	635	609	608	526	547	
All	97	210	583	994	1,318	1,859	2,379	2,610	2,981	3,027	3,311	3,790	4,393	4,939	5,292	5,700	5,839	5,522	5,133	4,659	4,424	4,171	4,004	3,841	3,708	
All with unknowns dropped	87	184	525	912	1,229	1,735	2,228	2,466	2,797	2,869	3,189	3,627	4,231	4,792	5,128	5,524	5,661	5,315	4,919	4,472	4,233	4,005	3,831	3,679	3,548	

The age of patient is determined as of the date of death.
†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.
*Values for cells with 10 or fewer patients are suppressed.
." Zero values in this cell.

Table H.22

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients, never on transplant waitlist

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	124.9	157.9	304	274.9	197	121	213.4	162.2	257.1	260.9	296.3	274.1	116.3	167.8	168.9	145	246.8	136.1	168.1	151.8	131.5	139.3	142.1	177.9
5-9	151.5	367.8	101.6	60.1	109.7	228	73.1	47.6	61.1	.	81.5	130.2	160.4	227.7	42.8	.	131.6	149.7	126.7	180.1	51.2	122.7	.	137.4	
10-14	.	.	.	29.3	62.5	89.6	44.7	73.9	187.2	136.3	233.6	113.3	104.2	90.9	70.3	122.2	120.4	64.1	19.4	60.4	23.9	68.9	73	82.4	95.2
15-19	.	177.4	128.9	109.1	117.4	97.6	88.9	96.6	158.7	87.7	62.2	79.8	124.6	16.1	108.8	139.4	68.5	41.8	58	137.4	135.4	105.2	62.4	90.9	26.9
20-29	92.4	73.4	105.2	137.8	108	95.2	141.9	106.5	166.3	159.9	144.2	149.6	126.7	118.6	161.5	139.6	136.9	109.3	94.8	139.6	91.1	84.8	96.3	153.8	82.2
30-39	227.7	196.5	168.6	124.6	143.4	151.9	172.4	183.1	179.7	187.7	163.4	168.9	196	194.4	182.8	179.2	167.2	164.7	152.8	152.9	147.5	139	162.6	112.5	106.5
40-49	230.8	175.9	141.7	192.6	172	168.3	218.7	212.5	221	196.6	204.4	186.9	202.2	214.9	204.6	218.7	212.3	196.3	186.2	182.8	185.4	176.9	191.4	171.8	163.4
50-59	349.3	202.1	190.3	214	185.3	230.5	230.4	246.3	265.9	253.1	247.2	250.2	245.5	256.4	260.4	261.1	256.4	273.1	276.1	265.9	260.5	259.7	250.3	243.1	214.3
60-64	247.3	301.4	265	312.4	293.5	279.5	292.9	287.5	313	301.2	284.9	287.4	296.4	313.2	290.4	295	309.8	323.9	329.4	328.9	336.8	325.5	289.1	292	296
65-69	398.1	343.6	343.7	376.3	313.5	339.4	337.6	347.1	358.7	314.6	338.2	351.9	326.7	342.6	325	355.8	361.2	343.4	352.9	346.7	366.5	355.9	342.5	323.9	308.8
70-79	582.7	393.1	429.6	440	406.9	432.5	432.7	440.6	448	436.4	411.5	400	406	410	422	405	433	414	427	424	420	409	390	369	364.7
80+	.	299.6	566.7	653.1	602.2	704.8	632.2	572.4	716.8	650.8	576.3	580	582.6	585.3	566.3	615.2	608.3	647.1	588	587.8	574.9	582	534.2	543.5	523.2
Male	308.3	233.6	243.9	240	232.8	246.4	288.2	292.5	321.6	300.9	296.6	298.7	307.6	308.5	308.3	321.2	326.7	325.4	324.4	318.8	325.5	310.9	300.5	305.4	287.8
Female	317.1	237.1	217.6	285.3	225	257.6	253.4	275.6	296.9	279.3	273.5	275.6	275.6	299.6	297.4	298.8	306.9	304.9	310.1	314.8	307.7	309	300.2	274.2	263.5
White	323.4	246.9	237.7	272.5	239.6	263.7	289.1	302.7	335.9	318	310	311	323	336	335	339	345	350	353	348	351	343	337	321	307.5
Black	245.4	194.1	207.2	225.8	194.6	206	212.5	232.6	225.5	212	211.6	226.9	215.1	224	227	246	252	229	234	236	228	231	213	212	201.5
Other race	597.5	69.5	229.9	206.6	193.5	266.5	246.6	188	290.2	214.9	296.7	195.3	198.4	215.3	210.3	207.9	254.2	252.7	235.7	278.2	283.1	245.5	230.2	263.8	225
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	231	278	288	265	251	284	247	268	242.7
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	324.5	319.3	320.5	322.2	324.6	313.1	306.7	293.2	280.3
Diabetes	479.6	384	344.8	380.9	320.5	344.6	385.3	406.5	393.9	361.3	375.5	363.7	356.8	381.1	382	381	392.5	395	404.3	389.8	388.7	374.9	359.3	342.8	329.3
Hypertension	345.5	213.8	258.1	271.3	221.7	295.3	254.8	269.8	310	288.3	281.5	286.8	290.2	307.2	294	308.4	310.7	313.2	301.9	305.9	301.2	308.1	279.3	283.9	270.8
Glomerulonephritis	129.9	112.8	147	141.4	124.4	148.5	174.6	180.8	214.2	214.4	206.4	194.7	212	195.2	217.7	213	222.2	208.3	209	226.1	215.2	208.6	209.7	193.8	171.8
Other cause	290.6	230.4	192.5	237	241.8	227.5	263.5	265.9	301.9	278.2	243.6	260.4	263.4	263.7	251.3	265.6	260.9	249.5	252.9	255.2	267.8	254.5	268.8	257.2	247
<2 years	335.2	248.3	253.1	274.3	242.1	271.2	285	308.8	330.7	300.3	294.7	292.2	292.8	301.2	297.5	295.3	301.5	300.4	302.3	302.8	296.4	286.8	269.5	265.1	246.9
2-5 years	158.8	218.9	170.8	226.1	220.1	233.5	265.6	258.8	298.5	302.7	293.6	303.9	313.9	340.6	334.3	366	353	363	359	352	360	353	345	336	316
5+ years	92.6	44.1	100.1	175.3	170.6	181.6	224.3	230.8	248.1	233.7	235.5	240.9	254	248.4	265.3	264.4	311.8	277.4	290	296.7	309.6	316.6	340.9	305.3	317.3
All	312.5	235.2	231.4	261.1	229.3	251.6	271.9	285	310	291	286	288	293	304	303	311	317	316	318	317	317	310	300	291	276.3
ADJUSTED																									
0-19	.	.	142.7	177.2	155.4	188.5	166.5	148.6	163.5	142.2	156.3	162.4	181.8	138.2	131.7	142.2	155.3	161.7	132	147.7	154.9	156.3	135.2	142.3	125.2
20-44	.	.	137.2	144.7	144.4	154.1	173	174	189	179	175	173	181	190	188	193	190	182	171	167	163	157	163	154	145
45-64	.	.	210.6	254.9	229.7	252.8	271.6	271.4	286.6	264.3	257.5	255.7	256	264	262	264	268	267	270	266	267	262	255	247	237
65-74	.	.	344.3	434.3	387.9	404.4	400.9	410.4	407.9	368.1	366.2	372.6	371.1	365.5	360.3	373.1	395	379.4	379.8	369	378.6	372.3	369.6	355.5	350.1
75+	.	.	531.7	604.8	548.9	600.2	617.9	591.3	587.9	570.8	542.2	543.6	506.5	537.7	535.1	520.9	557.5	531.7	540.3	549.4	537.9	527.4	537.3	507.3	505.9
Male	.	.	281.6	315.1	293.9	306	322	328	344	323	312	312	313	321	313	320	329	320	318	311	310	302	295	289	285
Female	.	.	279	351.8	311	345.4	345.2	336.3	340.7	320.3	311.3	308.5	297.9	310.5	311.6	313.3	322.9	312.9	314.3	314.2	312.8	311.9	308.1	289.2	276.1
White	.	.	293.8	353.7	325.3	346.2	358.2	362.1	381.6	359.2	344.5	342.1	339.6	352.5	348.1	349.9	354.2	348.5	349.8	343.6	342.7	336.6	333.7	318.1	306.2
Black	.	.	274.9	309.9	268.9	293.2	300.7	312.4	290.2	272.2	257.9	279.6	268.9	280.7	279.6	286	302.3	279.9	276.4	275.3	267.9	263.9	262.4	255.3	249.6
Other race	.	.	254.4	322.1	280.4	370.1	363.9	262.2	318.8	281.2	346.7	259	253.5	233.6	226.5	215.8	243.6	242.5	237.7	250.1	265.7	255	235.5	244	228.1
Diabetes	.	.	383.3	452.1	408.3	426.6	446.7	446.4	443.9	409.7	400.1	402.8	390	408.4	407.8	413.6	429.7	419.6	424.9	415.2	413.6	400.9	394	372.9	361.2
Hypertension	.	.	223	279.3	245.2	298.7	280.8	272.1	288.1	271.4	265	264.4	265.2	276.7	270.4	273.6	276.1	273.9	269.4	269.6	267.4	266.4	255.8	248.8	240.9
Glomerulonephritis	.	.	229	226	178.2	198.8	219.6	223.5	237.6	221.8	232.8	227.4	230.5	214.4	217.9	217.6	229.5	214.2	212.4	215.2	215.9	212.3	212.9	208.4	194.2
Other cause	.	.	212.5	259.1	273	274.7	305.4	303.8	326.6	302.2	280.1	285.3	286.3	293.1	282.5	283.8	293.6	274.9	267.8	264.7	271.5	264	273	268.7	262
<2 years	.	.	324.4	332.2	301.2	325	326.6	326	337.8	311.7	295.6	288.4	279.2	284.4	276.5	274.8	275.9	267.4	265.3	264	258.4	249.2	235.3	225.1	213.5
2-5 years	.	.	287.3	340	304.3	326.5	336.6	325.7	342.6	335.5	329	336	332.1	353.2	349.2	368.9	365.8	360.8	355.2	349.8	346.7	339.9	331.6	318.5	300.9
5+ years	.	.	187.7	324.6	302.9	327.1	353.6	356.8	359.1	329.8	329.3	331	332.6	334.5	340.1	337	376.6	360.7	370.7	361.8	370.2	374.7	390.2	375.1	381.1
All	.	.	280.9	332.7	302.5	325.9	336.1	333.5	344.5	323.2	313.8	313	308.2	317.1	313.8	318	327.5	318.1	317.9	313.5	312.1	307	302.4	290.2	281.2

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

." Zero values in this cell.

Table H.23

Total patient deaths: CAPD/CCPD patients, on transplant waitlist

by demographic characteristics, primary diagnosis, & patient vintage

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	.	.	.	.	.	.	.	.	*	*	.	.	*	.	.	.
5-9	*	*	.	.	.	.	.	.	.	.	.	.	.	.	.	.	*
10-14	.	.	.	*	*	*	.	.	*	*	.	.	.	.	*	.	*
15-19	.	.	.	*	.	*	.	.	*	*	*	.	*	*	*	*	.
20-29	*	*	*	*	*	*	*	11	11	14	14	15	*	11	*	14	17
30-39	12	12	*	11	17	28	32	37	40	32	34	41	41	38	37	34	40
40-49	11	12	*	18	30	26	43	63	55	73	79	63	50	72	59	80	102
50-59	*	11	*	12	17	27	38	59	71	75	86	98	98	104	97	126	162
60-64	*	*	*	*	14	11	13	14	31	42	42	43	43	41	38	48	66
65-69	*	*	*	*	*	*	*	*	29	23	27	30	33	36	29	42	59
70-79	.	.	*	*	.	*	*	*	*	*	*	11	23	13	16	36	33
80+	.	.	.	.	.	.	*	.	.	*	.	.	*	.	.	*	.
0-19	*	*	.	*	*	*	.	.	*	*	*	.	*	*	*	*	*
20-44	21	19	11	23	34	50	69	76	74	77	88	79	73	82	70	80	100
45-64	13	19	16	28	48	50	63	108	134	159	167	181	168	184	170	222	287
65-74	*	*	*	*	*	*	*	*	33	31	31	39	52	47	45	68	81
75+	.	.	.	.	.	*	*	.	*	*	*	*	*	*	.	12	11
Male	17	23	20	33	55	61	76	96	131	142	155	168	151	169	151	214	266
Female	19	18	11	28	33	49	67	94	115	133	139	133	148	150	138	171	216
Unknown																	
White	22	33	25	48	67	79	104	137	170	174	178	213	187	206	168	243	297
Black	11	*	*	11	19	29	34	48	66	84	96	71	97	88	97	107	149
Native American	*	*	*	.	*	.	*	*	*	*	*	*	.	*	*	11	*
Asian	.	*	*	*	.	*	*	*	*	11	14	13	*	17	15	18	27
Other/unknown	*	.	.	.	.	.	.	.	*	*	*	*	*	*	*	*	*
†Hispanic	.	.	.	.	.	.	.	.	22	19	26	25	37	41	52	62	59
†Non-Hispanic	.	.	.	.	.	.	.	.	224	256	268	276	262	278	237	323	423
Diabetes	17	23	18	25	43	41	73	87	117	122	119	139	127	157	132	161	215
Hypertension	*	*	*	*	17	22	26	32	37	57	49	45	58	59	52	60	87
Glomerulonephritis	*	*	*	12	13	24	16	23	48	46	63	61	54	54	46	90	89
Cystic kidney	*	*	*	*	*	*	*	16	*	11	15	15	15	*	11	18	15
Other urologic	.	.	.	*	*	*	*	*	*	*	*	*	*	*	*	*	16
Other cause	*	*	*	*	*	13	17	24	26	32	36	29	35	28	38	43	48
Unknown cause	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	12
Missing disease	*	*	.	*	*	*	*	.	.	.	.	.	.	.	.	.	.
<2 years	13	19	13	25	27	40	61	65	78	92	70	85	73	86	63	92	113
2-<5 years	16	17	11	23	40	40	43	87	113	117	138	133	148	141	130	163	200
5+ years	*	*	*	13	21	30	39	38	55	66	86	83	78	92	96	130	169
All	36	41	31	61	88	110	143	190	246	275	294	301	299	319	289	385	482
All with unknowns c	33	39	29	60	87	108	139	186	240	269	285	291	286	309	280	371	467

The incident cohorts are determined at the time of ESRD initiation without applying the 60-day stable modality rule.

The age of the incident patient is determined as of the date of ESRD initiation.

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Table H.24

Annual mortality rates per 1,000 patient years at risk: CAPD/CCPD patients, on transplant waitlist

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	128.2	.	.	.	.	.	.	.	121.7	163.2	.	.	86	.	.	.
5-9	56.5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	119.5
10-14	.	.	.	23.2	45.5	40.8	.	.	65.3	21.5	.	.	28.7	.	26.9	.	23.6
15-19	.	.	.	37.4	.	23.5	.	.	14.8	43.7	12.4	.	.	59	52.3	41.5	.
20-29	7.6	5.9	5.7	23.4	28.2	27.2	20.6	35.5	30	32.6	39.4	41.3	23.7	35.1	25.2	35.3	43.8
30-39	59.6	61.2	27.2	29.3	26.3	55.6	48.2	48.1	54.7	42.4	49.1	58.4	49	43.9	43	38.9	46.9
40-49	82.3	54.5	21.2	48.3	66.7	46.6	61.6	74.5	50.7	78.7	72.6	61.2	54	67	48.2	63.3	74.7
50-59	50	89.9	53	53.9	60.3	75.7	75.2	84.9	98.6	78.5	101.2	110.2	101.5	91.1	84.9	96.7	111.5
60-64	153.1	76.4	82.6	144.8	198.4	136	93.3	86.8	146.8	165.2	149	170.6	127.6	125.4	78.6	105.3	128.5
65-69	105.4	119.2	167	215.3	122.5	58	72.6	52.3	165.5	159	131.2	161.4	176.5	159.2	119.1	140.8	170.4
70-79	.	.	448.7	431.7	.	188.4	261.8	51.9	122	200.4	160.8	150.3	259.4	98.5	95.5	166.1	163.1
80+	.	.	.	.	.	.	.	.	.	.	.	.	567.2	.	.	449	.
Male	51.9	56	36	46.2	61	55.3	58.3	60.8	71.9	74.5	80.2	89.9	77.8	82.6	66	86.2	100.8
Female	51.5	40	21.7	44.3	36.6	52.6	51	63.1	66	73.7	74.2	73.3	75.2	67.7	58	66	78.5
White	42.7	52.4	33.9	51	55.9	58.6	60.8	72	77.1	77.4	78.9	97.6	83.6	83.8	61.9	82.7	94.8
Black	63.8	33.2	14.4	34.2	38.5	49.4	46.3	51.2	62.1	72.8	80.5	60.7	76.7	66	68.2	68.4	91.3
Other race	141.8	48.7	31.9	31.3	18.7	22.4	29	19.6	34.1	55.8	56.2	52.4	35.2	52.7	45.6	60.2	56.1
†Hispanic	.	.	.	.	.	.	.	.	66	47.7	58.9	53.5	71.7	68.6	80.8	89.2	76.6
†Non-Hispanic	.	.	.	.	.	.	.	.	69.3	77	79.6	85.6	77.2	75.9	58.9	73.8	91.4
Diabetes	134.3	133.2	90.4	92.7	111.6	92.1	126	136.3	142.2	147.2	138.4	165.8	140.1	158.4	117.3	130.8	158.8
Hypertension	41.7	22.1	17.5	49.2	53.3	58.7	53.1	50.4	54.9	82.8	66.1	64.3	75.7	71.7	59.6	61.2	82.1
Glomerulonephritis	24.4	28.7	14.8	25.7	24.7	37.2	19.2	23.7	45	36.1	51	50.8	44.2	41	31.9	60.8	58.6
Other cause	37.6	29	15	33.7	28.6	38.6	34.5	53.3	45.1	50.2	64.9	57.9	60.4	44.3	49.3	52.4	61.9
<2 years	39.3	45.3	24.4	36.6	30.4	40.6	49	47.4	48	58.6	47.2	59.7	48.2	54	37.6	53.6	60.4
2-5 years	85.4	61.8	32.1	59.9	70.5	66.5	54.3	84.7	97.3	88.3	93.3	92.3	104.2	89.3	71.7	80.6	95.7
5+ years	37.7	32.6	34.4	45.3	60.8	67.8	68.6	59	70.4	81.6	100.5	98.8	78.6	84.6	79.7	97.2	116.7
All	51.7	47.9	28.9	45.3	48.9	54	54.7	61.9	69	74.1	77.2	81.7	76.5	74.9	61.9	75.9	89.3
ADJUSTED																	
0-19	.	.	.	.	.	.	.	.	27.4	95.6	60.2	25	15.9	48.7	48.3	43.3	50
20-44	.	.	.	.	.	.	.	.	67.2	72	73.5	73.4	62.8	62.4	49	53.4	65.6
45-64	.	.	.	.	.	.	.	.	118.8	120.3	117.5	129.2	115.9	109.3	90.1	104.1	123.3
65-74	.	.	.	.	.	.	.	.	180.4	205.7	179.8	194.3	215.4	201.4	160.6	172.4	197.2
75+	.	.	.	.	.	.	.	.	235.7	273.4	447.7	367.9	474.7	250.1	72.6	230.4	299.1
Male	.	.	.	.	.	.	.	.	152.9	136.9	143.4	163.7	167.8	136.7	89.4	133.4	160.1
Female	.	.	.	.	.	.	.	.	134	169.9	191	176.3	202.2	150.4	103.2	117.7	142.3
White	.	.	.	.	.	.	.	.	164.2	172.7	174.9	194.6	208.9	164.4	106.7	140.2	158.8
Black	.	.	.	.	.	.	.	.	93.3	132.2	154.9	136	151.5	113.7	85.6	108.6	150.2
Other race	.	.	.	.	.	.	.	.	152.8	75.4	110	93.3	74.7	104.4	65.4	105.2	92.2
Diabetes	.	.	.	.	.	.	.	.	230.5	224.4	225.9	248.8	252	229.2	159.7	196.9	216.1
Hypertension	.	.	.	.	.	.	.	.	104.5	138.2	138.1	152.2	168.5	122.1	75	104.7	137.7
Glomerulonephritis	.	.	.	.	.	.	.	.	85.4	108.2	134.7	102.9	104.2	75.4	48.5	87.4	102
Other cause	.	.	.	.	.	.	.	.	77.2	83.1	124.7	100.4	132.6	71.1	56.4	74.5	100.1
<2 years	.	.	.	.	.	.	.	.	84.6	93.1	94	99.2	101	82.7	51.6	75.4	88.9
2-5 years	.	.	.	.	.	.	.	.	188	187.3	197.4	191.4	228.1	168.9	108.2	131.4	153.5
5+ years	.	.	.	.	.	.	.	.	213.2	233.2	279.9	296.6	311.2	245.4	169.5	228.2	278.5
All	.	.	.	.	.	.	.	.	143	152.4	166.6	169.5	182.5	143.8	96.5	126.4	151.8

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

"." Zero values in this cell.

Table H.25

Total patient deaths: CAPD/CCPD patients, returned to dialysis from transplant

by demographic characteristics, primary diagnosis, & patient vintage

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-4	.	.	.	*
5-9	.	*	.	*	.	*	*	*	*	*	.	.	*	.	*	.	*	.	*	.	*	.
10-14	.	*	.	*	*	*	*	*	*	*	.	*	*	*	.	*	.	.	.	*	*	*
15-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.
20-29	*	*	*	*	*	*	12	14	11	*	12	*	22	20	23	20	11	12	11	11	17	
30-39	*	19	18	18	27	31	24	38	48	47	42	35	45	54	49	43	49	33	31	26	33	
40-49	*	20	20	19	32	37	48	38	59	57	63	65	79	88	64	92	72	70	71	65	67	
50-59	*	*	17	*	22	25	14	27	26	38	54	67	63	57	56	50	51	45	54	53	59	
60-64	*	*	.	*	*	*	*	11	15	17	*	15	19	25	20	*	16	16	13	14	22	
65-69	*	*	*	.	*	*	*	*	*	13	*	16	16	16	*	*	*	*	12	15	14	
70-79	.	.	*	*	*	*	*	*	*	*	12	*	*	*	12	15	*	*	18	*	11	
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	*	*	.	.
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	17	33	32	37	51	62	68	72	91	85	89	87	104	124	105	98	100	80	79	64	84	
45-64	12	18	29	24	45	47	36	56	68	82	91	105	124	120	107	117	99	96	101	105	114	
65-74	*	*	*	*	*	*	11	*	*	14	18	21	22	24	16	22	16	18	28	22	23	
75+	.	.	.	.	.	.	*	.	.	*	*	*	.	*	*	*	*	*	*	*	*
Male	19	32	45	33	72	71	65	72	98	113	110	122	141	135	117	125	109	107	107	98	112	
Female	13	24	21	34	39	49	55	65	74	74	94	99	114	138	116	118	112	92	106	98	114	
Unknown																						
White	30	47	57	58	92	103	92	107	137	151	160	170	194	203	164	181	159	145	158	126	157	
Black	*	*	*	*	17	16	25	29	34	32	35	45	55	58	55	55	53	46	47	62	57	
Native American	.	*	.	*	.	*	.	.	*	*	*	*	*	*	*	*	.	*	*	*	*	
Asian	.	*	.	*	.	*	*	*	.	*	*	*	*	*	11	*	*	*	*	*	*	
Other/unknown	*	.	.	*	.	.	.	.	.	.	.	.	.	.	.	.	*	.	.	*	.
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	18	15	17	30	18	18	21	12	20
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	237	258	216	213	203	181	192	184	206
Diabetes	*	12	19	23	29	38	42	43	57	53	56	64	65	71	56	68	54	60	49	33	51	
Hypertension	*	*	*	*	12	14	12	16	27	26	34	43	42	38	44	29	35	36	44	33	45	
Glomerulonephritis	*	16	19	11	34	34	33	35	41	57	66	61	85	86	79	71	67	56	71	85	67	
Cystic kidney	*	*	*	*	*	*	*	*	15	14	*	16	20	24	*	12	*	*	*	11	13	
Other urologic	.	.	.	*	*	*	.	*	*	.	*	*	*	*	*	11	*	*	*	*	*	
Other cause	*	*	*	*	17	16	19	23	21	27	23	26	31	41	34	45	45	23	33	23	37	
Unknown cause	*	*	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Missing disease	*	*	*	*	*	*	*	*	*	*	*	.	.	.	.	.	.	.	.	.	.
<2 years	*	*	*	*	*	14	*	*	*	*	*	*	*	*	*	.	*	*	*	*	.	
2-<5 years	13	25	22	18	31	46	34	37	42	36	39	37	35	41	27	21	27	15	14	*	16	
5+ years	16	29	39	45	71	60	79	92	124	143	158	177	214	230	205	222	193	183	198	188	210	
All	32	56	66	67	111	120	120	137	172	187	204	221	255	273	233	243	221	199	213	196	226	
All with unknowns dropped	28	51	66	61	107	118	116	127	165	180	196	213	249	267	228	236	215	193	209	189	222	

The age of patient is determined as of the date of Death.

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Table H.26

Annual mortality rates per 1,000 patient YAR: CAPD/CCPD patients, returned to dialysis from tx

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-4					133.8						117.5												
5-9					45.1		34.4	50.6	51.1	28.1			77	38.1		70.8		89.5	104.4				110.9
10-14			60.9		33	75.1	64.3	16.3	31	47.8	32.5		31.9	38.6	50.7		34.6	39.1		35.7	30.2		34.5
15-19	150.2	130.5	79.6	14.2	36.5	126	30.5	19.4	24.1	46.2	33.9	43.8	34.3	30.2	33.6	35.2	42.4	50	32.3	10.8	13.9		15.9
20-29	84.9	43.1	31	47.7	34.7	50.8	29.6	48.3	51.5	45.5	37.2	39.4	38.4	67.5	63.5	77.1	69.6	43.7	46.7	55.5	37.3		60.4
30-39	52.5	64.6	117.1	99.8	78.3	110	95.2	71.2	96.6	102	88.3	68	59.2	86.6	97.5	102.1	94.5	103.3	74.9	69.2	60.7		94.1
40-49	158	80.6	191.4	132.6	108.6	126.3	138.5	162	91.5	146.4	134.7	115.4	128.6	137	163.9	109.3	178.4	154.5	151.3	157.1	138.1		138.6
50-59	86.6	234.4	115.5	207	145.9	249.3	267.2	111.5	227.7	155.4	164.5	188.7	221.4	176.9	201.3	192.7	183.7	205	156.2	192.4	189.8		174.6
60-64		266.2	54.8		240.3	304.7	257.3	124.5	150.8	292.4	348.6	106.4	313.3	256.6	406.7	237.4	133.2	189.6	237.4	225.5	221.7		223.6
65-69		318.2	129	313.9		316.3	375.2	546.9	285.8	175.9	299.8	147.2	302.9	335.9	402.8	196.7	275.7	443.3	360.1	295.7	262.1		384.8
70-79					637.4	449.3		820.3	415.1	252.2	180.8	651.4	366.2	165.6	504.8	524.2	521	221.3	282.5	619.8	226.1		443.3
80+																							525.5
Male	51.6	85.6	106.9	117.3	74.1	135	116.1	99.9	95.9	119.9	121	97.6	121.9	125.5	145.4	119.6	150.8	145.4	137.4	146.7	123.7		145.5
Female	156.6	76	99.1	61.2	85.3	93	87.8	87.4	90.3	92.4	83.9	87.2	92	107.6	130.8	115.3	117.6	114.2	95.2	107.9	100.4		116.6
White	103.5	96.7	108.7	99.2	87.1	127.6	110.4	95.7	98.3	117.8	114.1	104	113.6	128.3	148.5	126.2	149.4	141.4	126.8	136.6	106.8		139.7
Black	0	13.1	81.4	80.5	44.6	79.2	85.8	92.3	85.8	83.3	75.4	60.2	93.7	93.7	115.9	93.4	103	106.8	90.9	106.3	130.6		108.9
Other race	226.9	107	96.3	0	78.8	56.1	23.1	64.4	20.1	16.8	65.2	91.1	72.3	70	102.9	122.1	77.9	77.4	72.8	74.6	66.9		117.1
†Hispanic														88.3	77.4	95.3	160.2	90	87.4	115.5	56.5		101
†Non-Hispanic														118.9	143.5	119.5	130	132.4	117.2	125.9	117.2		133
Diabetes	0	131.7	253	273.5	253.6	230.5	264.3	284.7	247.4	302.5	256.5	239.8	271.9	245.1	277.2	248.3	332.2	290.8	354	332.6	211.9		289.8
Hypertension	83.1	65.1	157.1	102.7	71.5	130.7	115.7	71.1	92.1	122.6	95.2	103.9	143.9	116.7	125.1	133.9	91.4	132.1	117.1	154.9	110.6		168
Glomerulonephritis	90.9	61.9	68.9	70.3	35.7	81.9	74	64.3	56.2	68.6	83.9	75.6	77.2	100	118.4	103.5	88.5	93.4	80.2	95.7	111.1		87.8
Other cause	110.5	95.2	88.4	67.7	80.5	114.5	78.4	76.7	90.2	80.8	76.7	62.1	73.6	91.5	120.4	85.4	145.3	122.8	88	100.1	82.2		123.7
<2 years	0	58.2	32.3	84.3	75.4	104.7	140.9	77.8	93.5	62.4	104.7	77	86.5	96.8	42.3	35.2	0	43.5	53	62.2	59.8		0
2-5 years	68.7	94.2	114.9	83.7	56.2	94.7	126.8	83.6	77.6	95.7	81	81.7	82.2	80.6	110.4	89.2	82.7	121.1	91.1	79	40.6		93.7
5+ years	120.1	78.6	108.3	99.6	92.5	128.3	87.7	100.2	99.5	113.1	109.4	96	113.7	125	144.9	123	141.1	130.1	116.7	130.1	117.3		133.8
All	90	81.6	103.6	92.8	79.3	116.7	103.2	94	93.3	106.6	102.9	92.5	106.8	116.5	137.7	117.3	133	128.2	113.9	124.8	110.6		129.7
ADJUSTED																							
0-19																43.5	38.4	45.7	62.6	62.8	33.5	19.7	29.2
20-44																95.4	82.3	75.9	86.6	90.3	103	68.2	79.5
45-64																192.3	145.2	133.6	140.3	144	165.5	147.9	128.1
65-74																453.1	302.4	252.8	230.9	239.3	419	263.1	337.1
75+																155	45.7	154.3	69	125.1	193	194.9	330.3
Male																222.6	164.2	156.8	158.6	167.8	256	194.1	231.9
Female																223.9	136.4	136.6	118.7	137.5	180.8	132.2	127
White																261.4	156.7	160.6	169	187.4	281.1	191.2	216.7
Black																167.6	144.1	129.1	107.8	111.5	148.8	116.4	109
Other race																228.8	134.5	133.5	60.6	68.2	52.4	127.7	153.2
Diabetes																346	209.4	205.4	175	211	332.3	242.2	301.5
Hypertension																144.1	135	126.9	162.4	156.5	230.7	134.1	124.6
Glomerulonephritis																94.4	95.8	92.9	90.9	79.1	105.2	120.9	136.5
Other cause																210.6	111.5	131.8	108.9	119.3	122.3	104.6	120.2
<2 years																158.6	97.2	44.3	57.4	78.1	144.4	132	79.7
2-5 years																218.2	149.1	174.1	169	182.8	234.6	132.8	208.3
5+ years																362.7	238.7	302.9	249.9	262.9	365.7	266.7	361.9
All																224.9	150.5	147.4	140.9	154.3	220.5	164.4	179.3

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

"." Zero values in this cell.

Table H.27

Total patient deaths: transplant patients*by demographic characteristics, primary diagnosis, & patient vintage*

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	*	*	*	*	*	*	*	*	*	*	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	12	*	*	*	*	11	*	*	*	*	.	*	*
15-19	*	19	*	*	13	*	*	13	15	12	*	*	*
20-29	32	47	43	68	61	69	69	76	73	69	65	59	49
30-39	84	90	134	137	195	171	218	207	245	232	212	214	216
40-49	101	118	141	127	171	172	221	240	275	314	370	370	363
50-59	63	92	111	135	134	193	192	251	283	313	357	368	330
60-64	20	13	21	25	46	55	70	72	91	101	147	184	194
65-69	*	*	*	14	17	14	29	24	54	60	108	103	151
70-79	*	*	*	*	*	*	*	11	16	28	38	37	74
80+	.	*	.	*	.	*	*	*	*	*	*	*	*
0-19	27	29	19	17	24	25	28	32	28	23	13	21	13
20-44	152	192	244	270	351	334	400	391	450	460	463	462	439
45-64	148	168	206	222	256	326	370	455	517	569	688	733	713
65-74	*	*	*	16	17	20	34	35	65	82	142	136	212
75+	*	*	*	*	*	*	*	*	*	*	*	*	16
Male	226	269	306	351	422	464	561	619	748	776	895	922	914
Female	104	129	174	177	227	243	273	296	319	365	418	440	479
Unknown													
White	243	298	386	420	484	545	628	680	813	849	1,002	1,038	1,081
Black	70	82	75	89	149	143	186	212	229	261	283	289	273
Native American	*	*	.	*	*	*	*	11	*	*	11	*	13
Asian	.	.	*	*	*	*	*	*	12	13	14	24	21
Other/unknown	16	17	17	*	11	*	*	*	*	*	*	*	*
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
Diabetes	48	63	101	105	167	179	241	267	318	353	392	451	497
Hypertension	26	35	43	46	77	84	125	126	144	168	210	249	229
Glomerulonephritis	60	77	97	110	111	140	173	188	209	258	290	284	280
Cystic kidney	16	19	19	26	34	39	45	54	73	59	95	92	84
Other urologic	*	*	12	*	*	13	17	19	20	30	32	40	30
Other cause	18	22	27	46	60	85	84	103	112	121	144	119	129
Unknown cause	34	28	53	48	58	54	45	38	67	47	74	56	71
Missing disease	125	150	128	139	132	113	104	120	124	105	76	71	73
<2 years	160	160	162	163	187	162	172	198	206	175	158	153	152
2-<5 years	148	189	244	211	271	283	364	334	392	389	419	387	375
5+ years	22	49	74	154	191	262	298	383	469	577	736	822	866
All	330	398	480	528	649	707	834	915	1,067	1,141	1,313	1,362	1,393
All with unknowns dropped	281	353	412	471	582	643	784	873	993	1,085	1,236	1,304	1,319

The age of patient is determined as of the date of Death.

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

Table H.27

Total patient deaths: transplant patients

by demographic characteristics, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	.	*	*	*	*	*	.	*	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	.	*	*	*	*	*	*	*	*	*
15-19	*	*	*	*	*	*	*	*	*	11	12	*
20-29	64	48	42	42	52	38	48	36	49	42	35	33
30-39	227	206	217	186	234	212	224	216	226	204	184	161
40-49	341	446	473	516	496	538	479	528	589	582	506	479
50-59	458	511	515	613	655	710	767	841	854	843	909	842
60-64	212	257	276	277	355	331	390	399	474	453	530	540
65-69	175	208	271	282	322	388	369	457	473	517	581	644
70-79	87	131	180	219	225	322	396	441	519	560	677	716
80+	*	*	*	*	18	17	17	37	40	48	64	83
0-19	16	12	12	16	20	15	15	12	13	18	22	14
20-44	448	442	446	461	517	486	460	488	536	484	426	396
45-64	854	1026	1077	1173	1275	1343	1448	1532	1656	1640	1738	1659
65-74	243	315	413	455	496	642	657	771	838	913	1026	1114
75+	29	30	45	53	69	85	125	164	194	212	296	329
Male	1080	1184	1319	1417	1493	1681	1746	1879	2076	2073	2180	2244
Female	510	641	674	741	884	890	959	1088	1161	1194	1328	1268
Unknown												
White	1225	1420	1528	1666	1816	1973	2061	2256	2474	2449	2,648	2,682
Black	320	351	401	421	477	518	557	599	644	683	734	687
Native American	15	17	17	26	25	22	29	41	36	40	45	45
Asian	29	35	41	42	56	55	56	68	80	93	78	90
Other/unknown	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic	.	.	.	141	155	166	185	237	252	246	269	288
†Non-Hispanic	.	.	.	2017	2222	2405	2520	2730	2985	3021	3239	3224
Diabetes	517	618	691	730	849	982	980	1087	1223	1204	1319	1395
Hypertension	285	349	353	380	438	456	494	530	558	620	602	588
Glomerulonephritis	329	369	417	481	520	529	526	621	671	618	676	623
Cystic kidney	117	114	151	172	161	211	229	238	262	258	272	278
Other urologic	47	49	45	46	57	58	80	75	76	95	95	111
Other cause	140	182	196	217	231	201	248	262	297	305	380	330
Unknown cause	100	82	98	81	86	90	92	94	90	109	109	125
Missing disease	55	62	42	51	35	44	56	60	60	58	55	62
<2 years	118	161	135	150	142	119	114	106	130	146	142	135
2-<5 years	418	466	495	527	533	510	516	531	556	538	520	532
5+ years	1054	1198	1363	1481	1702	1942	2075	2330	2551	2583	2846	2845
All	1590	1825	1993	2158	2377	2571	2705	2967	3,237	3,267	3,508	3,512
All with unknowns dropped	1489	1741	1889	2074	2289	2478	2611	2871	3144	3,156	3,396	3,379

The age of patient is determined as of the date of Death.

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

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell. ." Zero values in this cell.

Table H.28

Annual mortality rates per 1,000 patient years at risk: transplant patients*from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	148.1	73	46	27.9	45.9	40.3	43.8	31.9	33	19.8	27.4	30.7	14.5	13.6	0	6.7	6.5	13.1	13	28	0	19.2	18.4	18.6	25.2
5-9	57.2	49.6	42	22.5	21.2	16.6	22.2	28.1	3.8	18.4	10.1	12.5	5.7	8.6	5.7	9	11.2	8.1	5.1	2.4	4.8	2.8	10.7	3.1	3
10-14	47.7	15.7	18.9	10.1	15.4	33.4	19.6	22.6	15.2	8.5	0	10.2	4.1	5.7	1.8	0	3.5	9.5	3.2	7.5	5.7	2.9	3.1	9.1	5.1
15-19	22	32.2	14.9	17.8	20.8	12.2	12.5	15.8	17.1	14.7	11.3	11.2	10	10.2	13.1	9.2	11	9.2	11	6.4	6	7.9	7.9	12.8	6.7
20-29	18.1	23.6	18.2	26	19.5	20.9	19.3	19.2	18.5	17.3	14.8	13.8	11.2	14.1	10.3	9.4	8.9	10.5	7.7	9.9	7.7	9.9	8.9	7.3	8
30-39	49.4	40.3	47.1	40.2	47.3	34.1	37.3	29.8	31	28.8	25.5	23.6	21.9	21.7	19.1	19.5	16.1	19.5	16.9	17.8	16.8	18.7	16.4	14.9	13.1
40-49	85.4	75	72.7	52.3	58.4	47.5	48.4	43.6	43.1	43	45.7	41.5	35.9	30.3	35.9	35.6	35.6	32.9	34.3	28.5	29.8	31	30	25.2	23.8
50-59	80.1	94.5	86.2	84.7	70.3	81.6	64.1	64.8	60.3	57.9	61.5	55.5	43.9	56.3	55.7	52.7	56.1	53.2	51.1	50.4	49	47.1	42.9	43.4	37.8
60-64	163.7	74.9	114.2	102.3	142.2	106.2	105.2	76.8	70.4	60.8	72.8	77.5	76	69	75.1	79.2	68.8	78.7	65.9	68.3	65.4	69.8	60.6	64.9	65
65-69	64.1	111.3	104.9	169.1	115.7	95.1	122.5	60.5	95.2	77.4	103.4	73.3	85.5	85	79.8	90.3	85.4	78.9	88.5	75.4	83.8	78.1	76.5	74.9	77.1
70-79	101	71	216.7	37.9	27.5	60.7	54.5	91.7	76.7	110	99.1	72.9	95.1	88.6	114.6	121	114.7	103.2	118.1	125.2	118.3	117.7	110.7	115.5	101.2
80+	0	824.5	0	1169	0	483.1	180	156.6	163.3	76	148	251.1	118.1	415.3	224	129	88.9	211.1	185.2	139	209.4	171.4	157.4	157.4	188.4
Male	58.8	54.7	50.3	47.9	48.4	44.7	45.1	41.6	44	42.2	45.1	42.2	37.9	41.3	41.5	43.8	43	42.2	44.5	43.4	43.7	45.9	43.5	43.2	43
Female	41.5	40.7	46.5	40.6	44.1	39.3	37.2	33.6	31.3	32.5	33.9	31.9	30.9	30	34.4	34.5	34.8	38.2	35.9	35.9	37.8	38.2	37.1	39	36.3
White	46.8	45.3	48.4	44.7	43.7	41.3	40.1	36.3	37.9	36.5	39.6	37	34.8	36.3	38.6	39.8	39.9	40.6	41.4	40.6	41.6	43.4	40.9	41.8	41.2
Black	72.7	64	47.2	44.9	61.7	48.8	51.9	49.5	46.7	48.7	49.2	45.7	38.6	41.4	41.1	43.5	41.3	42.8	42.8	42.7	42.5	43.2	43	43.7	39.2
Other race	88.5	76.4	71.8	62.9	44.3	44.5	38.7	35	30.8	32.2	25.3	27.2	26.4	26.6	28.6	30.5	30.4	32.5	28.3	27.9	32.2	31.6	33.3	28.9	31.1
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	29.8	29.3	28.4	28.2	32.4	31.7	28.4	28.5	29.2
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	40.7	41.7	42.4	41.7	42.3	44.1	42.4	43.2	41.7
Diabetes	91.4	81.6	91.3	68.7	83.1	68.6	71.2	60.7	60.7	59.5	58.2	58.5	56.7	53.5	56.7	58	55.3	59	63.2	58.5	60.4	64.1	59.4	61	61.7
Hypertension	40.5	41.5	39.4	32.9	42.8	38.5	46.4	38.1	37	38.6	43.6	45.9	37.7	42.3	46.8	43.6	42.5	44.9	43.8	44.6	44.7	45	47.3	43.2	41.2
Glomerulonephritis	28.6	28.6	29.9	28	24.2	25.4	26.7	24.9	24.3	28	29.3	26.1	23.2	25.2	26.4	28.9	30.9	31.2	30	28	31.1	32.1	28.2	29.5	26.7
Other cause	63.5	59	54.5	55.2	53.8	48.6	40.9	39.7	41.9	35.9	39.2	32.5	30.4	33.5	32.9	34.8	34.3	32.2	31.9	34.7	33.2	33.8	33.6	35	33.7
<2 years	62	58.3	51.8	44.6	47	37.9	35.2	34.5	34.1	29.5	26.4	24	23.3	18	23.9	20.2	21.9	21.2	18.6	17.7	16.6	19.9	21	19.3	17.5
2-5 yrears	50.1	46.6	49.9	42	45.1	39.4	43.8	34.8	36.7	34	34.7	30	26.8	28.3	29.1	29.1	29.6	28.8	27	27	27.2	28.6	27.5	25.9	25.9
5+ years	26.9	38	40.9	51.2	49.3	51.4	45.5	46	44.9	47.1	52.1	50.3	45.4	48.3	49	52.4	50	51.1	52.1	50.2	50.7	51.4	48.4	49.8	48.3
All	52	49.2	48.8	45.2	46.8	42.7	42.2	38.7	39.3	38.5	40.8	38.2	35.2	36.9	38.7	40.1	39.8	40.6	41.1	40.4	41.3	42.8	40.9	41.5	40.3

Table H.28

Annual mortality rates per 1,000 patient years at risk: transplant patients

from day 91 to one year + 90 days, by age, gender, race, ethnicity, & primary diagnosis

ADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	.	.	.	34.2	45.4	35.5	35	36.1	35.4	28.1	24	23.3	18.2	13.9	16.5	13.2	13.6	14	15.5	12.3	9.8	9.3	10.3	13	12.1
20-44	.	.	.	46.2	53.4	41.1	39	33.4	34	31.3	31	26.7	23.4	21.6	21.9	19.5	18.9	18.6	18.1	16.7	16	16.8	16.3	15.3	13.6
45-64	.	.	.	82.1	81.7	74.9	70.1	64.5	60.8	58.1	58.7	55.2	48.8	47.5	49.9	48.1	46.7	45.7	42.5	39.5	38.1	38.2	35.9	35.2	32.1
65-74	.	.	.	117.7	92.7	82.3	95	73.8	79	80.1	85.9	72	74	74.5	77.1	83	78.4	75.2	76.3	71.6	72.7	71.8	69.7	67.9	63.8
75+	.	.	.	238.9	141.3	145.7	88.3	61.2	70.9	74.4	70.1	67.1	73.2	129.1	98.2	124.1	102.5	90.7	91	105.1	107.4	111.1	107.4	112.6	109.8
Male	.	.	.	114.2	93.2	84.3	82.2	67.4	68.3	69.4	65.2	59.5	55.1	66.2	62.4	68.2	58.6	54.4	53.6	53.7	53.3	54.2	51.7	51.2	48.1
Female	.	.	.	98.9	77.4	72.1	63	50.6	51.2	47.1	52.7	46.5	46.9	51.3	48.4	48.1	49.4	49.8	47.2	45.9	45.1	45.7	44.6	45.4	42.4
White	.	.	.	122.4	91.7	81.9	78.5	62.1	61.6	57.9	60.2	52.7	53.2	61	57.7	58.5	55.3	53.4	51.3	51.5	49.8	50.7	48.2	48.6	45.8
Black	.	.	.	71.7	79.2	78.9	67.1	58.7	61.2	61.7	59.1	55.7	52.1	59.9	53.2	61.6	54.6	52.2	51	49	50.3	51.4	50.7	50.1	46
Other race	.	.	.	86.5	48.2	49.9	44.3	43.5	45	53	56.1	55.2	35.1	45.7	53.4	45.1	43.4	45.4	42.5	42.7	39.4	37.7	35.5	33.1	33
Diabetes	.	.	.	141.8	109.1	93.4	87.1	73.9	72.9	77	73.2	68.3	68.6	80.5	73	77.2	68.6	64.9	66.6	68.2	67.5	68.8	65.1	65.9	62.8
Hypertension	.	.	.	64.6	57.8	61.9	69.8	52.1	52.3	45.6	51.2	48	43.8	53.6	50.3	50.4	47.4	49.4	45.2	43.5	42.1	42.3	42.2	41.1	37.9
Glomerulonephritis	.	.	.	95.3	67	79.3	47	40.3	41.6	45	52.1	43.7	42.9	37.4	39.8	42.5	47.9	42.1	40.1	34.6	36.6	36.5	34.3	34.2	30.3
Other cause	.	.	.	119.1	107.5	88.2	72.5	62.1	68.3	58.6	57.8	46.7	43.3	51.1	50.3	52	46.2	41.3	38.8	40.9	39.1	39.6	37.6	38.1	36.5
<2 years	.	.	.	112.5	87.9	74.9	65.6	53.3	54.1	51.2	48.7	41.7	40.8	44.2	43.5	43.5	41.5	38.9	36.4	34.8	33	34.4	35.3	35.8	32.9
2-5 years	.	.	.	101.1	82.3	74.3	75.4	57.7	58.6	54.8	55.7	48.4	45.4	55.5	50.3	53.7	50.1	48.3	46.3	46.6	46.8	47.2	44.6	43.6	41.5
5+ years	.	.	.	105.6	88.2	89.3	82.7	71.7	72.5	75.6	81.5	79	77.1	95.6	85.8	92.6	83.4	82.8	84	85.5	86.7	86.2	79.7	81.2	77
All	.	.	.	107.5	86.4	78.6	73	59.6	60.4	58.8	59.5	53.6	51.4	59.5	55.9	58.3	54.4	52.5	50.8	50.1	49.5	50.2	48.4	48.5	45.4

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage.

Mortality rates for primary diagnosis are adjusted for age, gender, race, & vintage.

Mortality rates for age are adjusted for gender, race, primary diagnosis, & vintage.

Mortality rates for gender are adjusted for age, race, primary diagnosis, & vintage.

Mortality rates for race are adjusted for gender, age, primary diagnosis, & vintage.

Mortality rates for vintage are adjusted for gender, age, race, & primary diagnosis.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

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

"." Zero values in this cell.

Table H.28.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: transplant patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	31.7	24.3	22	21.4	16.5
20-29	25	23.2	22.7	19.6	16.7
30-39	34.4	31.5	30.7	26.3	23.8
40-49	46.8	45.3	48.9	46.2	39.9
50-59	65.7	63.1	65.6	62.4	52.5
60-64	74	68.1	73.2	75.5	79.4
65-69	85.1	81.4	95	79.9	86
70-79	67.7	88.9	87.7	74.8	86.7
80+	127.8	109.8	122.9	212.3	161.1
0-19	20.5	33.5	26.3	29.5	21.9	15.4
20-44	32.5	34.1	31.7	32.5	28.9	25.7
45-64	65.7	62.1	60.8	64.3	62.4	55
65-74	72.4	84	84.1	96.3	82.7	91.5
75+	295.5	62.9	74.6	68.6	78.9	99.8
Male	113.6	69.4	72.3	71.1	69.2	68.1
Female	51.5	51.9	49.4	55.8	53.8	58.8
White	58.6	62.6	61.1	63.2	60.6	65.1
Black	161	63.2	65.8	69.6	66.6	66.7
Native American	237.1	57.7	47.3	47.1	50.8	33.2
Asian	12.5	25.2	31.9	41.9	55.4	38.7
†Hispanic
†Non-Hispanic
All	78.3	61.3	61.4	63.8	62	63.8

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	15	15.5	12.3	12.6	12.9	15	13.4	10	9.9	11.1	13.4	12.4
20-29	17.9	17.2	14.6	12.7	13.1	12.7	13.4	11.8	13.3	12.6	11.4	11.3
30-39	24.2	22.8	21.2	18.3	19.2	18.7	19.1	18.7	20.1	18.7	17.9	15.8
40-49	36.6	38.5	36.9	37	35	35.6	31.9	32	32.3	31.4	29.1	26.2
50-59	57.9	59.8	58.3	58.3	57.7	56.3	53.8	53.1	51.7	46.9	46.1	41.3
60-64	77.7	81	82.1	76	81.8	74.4	72.1	70.2	73.1	65.9	67.3	65.6
65-69	91.4	90.4	97.4	91.3	89.4	92.5	84.4	88.8	85.7	82.1	80.4	79.1
70-79	93.5	109.2	125	119.6	116	120.2	124.4	129	130.2	121.3	124.1	112.2
80+	316.1	262.7	201.4	120.8	186.9	189.6	160.6	198	191	177.7	174	191.6
0-19	11.6	15.9	12.7	13.3	14.2	16.3	13.7	10.6	10.5	11.5	15.1	13
20-44	24.8	24.8	22.5	21.8	22.2	22.5	21.3	21.2	22.3	21.2	20.2	18.1
45-64	56.3	58.3	57.5	55.8	56	54.1	52	51.4	51.5	47.6	47	43.3
65-74	94	95.9	105.3	98.7	96.5	100.9	96.3	100.4	98	93	91.9	86.8
75+	182.8	129.1	166	134.3	123.9	129.2	142.9	158.6	159.9	151.7	158.3	157.8
Male	88.6	79.1	89.9	75.7	72.1	74.2	76.2	78.7	78.8	73.5	73.5	70.3
Female	68.7	60.8	62.3	63.4	65.9	65.3	64.2	66.6	66.5	63.1	64.8	61.8
White	81.4	71.8	74.7	70.2	69.6	69.7	71.7	72.3	72.4	67.4	68.6	65.5
Black	80.3	69.4	83.7	72.4	71.1	72.7	70.6	76.8	77.3	74.1	73.8	69.3
Native American	64	79.9	51.5	60.8	89.6	69	69.6	67.7	63.5	57.8	56.8	55.3
Asian	47.2	60.5	71	56.2	59	59	60.1	54.1	51.6	47	44	46.6
†Hispanic				29.81	29.33	28.45	28.19	32.4	31.72	28.42	28.48	29.23
†Non-Hispanic				40.74	41.75	42.41	41.75	42.33	44.11	42.42	43.16	41.7
All	79.7	70.5	76.2	69.9	69.4	70.3	70.7	73.1	73	68.6	69.4	66.1

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.28.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: transplant patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	55.6	40	39.3	39.2	29.2
20-29	40.7	36.4	37.7	33	28
30-39	51.4	46.9	46.9	40.9	37.5
40-49	64.2	63	68.4	68.5	58.6
50-59	88.9	83.5	82.6	80.3	71.3
60-64	84.8	84.2	84.8	82.9	99
65-69	84.1	93.5	97.6	80.8	97.9
70-79	60.6	94.2	78.8	66.3	89.4
80+	101.8	107	96.1	159.5	149.3
0-19	17.8	60.3	42.4	54.7	38.4	24.8
20-44	49	52.2	47	49.2	44.2	39.5
45-64	85.7	81.1	80.8	83	81.9	73.9
65-74	69.4	84.9	102.9	99.5	88.9	113.1
75+	83.4	49.7	77.6	48.4	67.9	117.4
Male	88.5	80.9	90.3	80.7	78	85.3
Female	53.3	59.1	63.7	65.8	67.6	79.6
White	74.6	75.6	82.2	74.4	73.1	86.7
Black	72.4	65.3	71.2	73.4	72.7	79.9
Native American	131.8	72.6	62.3	60.2	72	38.9
Asian	9.9	36.9	50.9	62.4	70.6	38.3
†Hispanic
†Non-Hispanic
All	72.7	71.1	78	73.6	73.1	82.5

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	23.7	24.6	19.3	20	21.5	26.1	23	16.3	15.9	17.9	21.1	19.7
20-29	27	26.4	22.2	19.4	20.7	21.1	21.9	18.6	20.6	19.7	17.4	17.5
30-39	35.8	33.9	31.4	27.2	29	29.5	29.7	28.3	30.2	27.8	26.5	23.8
40-49	52.8	53.9	51.4	51	49.9	53.1	47.4	46.4	46.7	45.1	41.7	38.1
50-59	77.9	79.6	77.4	77	77.5	78.4	73.7	73.5	72	65	64	58.6
60-64	95.8	104.6	105.5	96.5	103	97.2	92.7	92.7	97.8	85.9	90.2	87.1
65-69	111.2	112.9	122.9	110	105	112.6	102.2	111.7	110	103.1	103.9	104.7
70-79	107.1	126.2	148.4	135.1	126.5	135	140.8	154.1	160	144.8	154.2	140.6
80+	347.5	289.3	225.2	128.1	188.2	196.3	167.4	223.9	224.2	202.1	207.6	232.1
0-19	15.6	25.2	20.3	22.1	24.5	29.1	23.1	17.4	17	18.4	24.3	21
20-44	35.5	37.1	33.9	33	34.1	36.1	32.8	32.4	33.7	31.9	30.5	27.8
45-64	74.7	76.5	74.8	72.4	74.5	74.8	71.3	70.7	71.7	65.4	65	60.4
65-74	119.4	117.4	131.1	115.7	108.6	120.3	116.5	125.8	123.8	115.2	118.4	114.1
75+	249.5	140.3	184.9	132.8	115	127.1	151.5	182.4	185.9	180.3	186.4	197.3
Male	113.9	95.4	113.1	88.4	79.1	85.9	88.3	96.4	96.7	89.1	91	91.8
Female	94.5	78.5	76.2	77.6	81.2	84	84.4	87.7	88.6	84.9	86.4	81.6
White	111.2	91.8	99.5	87.5	83.9	87.2	90.9	92.7	92.3	86	87.7	87.1
Black	96.1	79.1	87	75.5	72.2	82.8	78.1	92.3	96.2	92.4	93.6	89.5
Native American	89.4	97.5	53.8	67.5	66.9	67	75.2	91.6	87	76.6	73.8	67.8
Asian	45.4	64.7	105.5	83	85.7	68.8	69.5	73.7	72	64.8	62.2	65.5
†Hispanic	.	.	.	48.32	47.55	52.47	54.52	64.88	55.68	54.1	52.91	49.63
†Non-Hispanic	.	.	.	55.83	59.93	64.17	58.9	59.92	65.07	60.05	62.05	63.35
All	105.4	87.4	95.5	83.3	80	85.1	86.3	92.4	92.8	87	88.6	86.8

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.28.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: transplant patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	15.5	12.1	10.4	9.4	9.2
20-29	14.1	12.9	12.2	9.9	10.3
30-39	22.3	19.5	19.2	16.1	16.3
40-49	35.1	31.6	35.3	33.4	29.9
50-59	50.4	47.9	53.6	54.7	42.8
60-64	59.7	56.6	66.2	75.8	69.9
65-69	83.4	73.4	92.6	81.3	81.1
70-79	65.7	86.6	94.2	85.5	87.1
80+	139.1	116	143.7	275.4	171
0-19	11.5	16.5	15.5	16	12.5	11
20-44	21.6	22.2	19.8	20.5	19.8	19.2
45-64	53.9	48.8	47.7	54	54.1	45.8
65-74	58.3	81.2	63.5	84.5	78.2	80.3
75+	494.3	70.1	60.3	53.5	83.4	81.9
Male	154.9	59.7	54.6	57	65.7	57.1
Female	30.1	46.9	38.3	49.9	45.9	49.5
White	42.7	54.6	44.5	54.1	55.2	54.8
Black	254.7	55	54.5	54.3	61.4	55
Native American	279.6	34.8	18	23.9	15.6	17.9
Asian	15.5	25.3	23.2	48.2	47.4	32.1
†Hispanic
†Non-Hispanic
All	82.3	53.8	46.7	53.5	56.3	53.6

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	10.3	12.4	9	8.8	6.4	8.1	7.1	6.3	6.5	7.8	8.6	8.3
20-29	13.5	14.3	11.1	9.3	7.3	7.6	7.9	7.9	9.2	9.3	7.7	7.9
30-39	18.9	18.6	16.3	13.6	12.2	12.2	12.4	13.3	14.6	14.3	12.8	11.3
40-49	29.1	32.9	30.2	29.6	24.8	25.6	22.4	24	24.6	25.1	21.9	20
50-59	47.8	52.3	48.6	48.2	45.8	44.4	42.6	42.1	41.1	38.8	36.4	32.7
60-64	71.6	71.4	70.6	63.5	72.3	63.2	62.4	58.8	60.6	57.5	55.7	55.6
65-69	82.9	78.3	83.2	77.1	87.6	84.5	79.7	78.1	74	73.4	69.6	65.4
70-79	94.3	97.1	110.5	105.4	125.2	118	123.7	118.9	116.9	112.3	112.2	98.9
80+	319.6	233.7	182.5	107.9	221.3	198.8	174.9	191.2	177.9	169.6	164	173.2
0-19	9	13.2	9.7	9	7.3	9.1	8	7.1	7.3	8.6	10.4	8.9
20-44	21.2	21	17.7	16.1	14.7	15.1	14.7	15.5	16.7	16.8	15	12.8
45-64	47.6	52.4	50.1	47.8	46.4	44.4	42.2	42.3	42	40.9	38.5	36.3
65-74	83.2	83.9	89.6	84.9	97.8	93.6	90.5	88.4	86.1	83.1	80.1	73.3
75+	170.2	112	144.2	126.6	149.9	138.8	150.4	147.6	147.4	141.9	146.2	137.6
Male	77.8	70.7	76.2	68.4	73.1	71.1	73.3	71.3	70.2	67.9	64.8	58.8
Female	60.8	52.1	53.4	53	59.9	55	53.7	53.7	54.2	52.3	53.5	51.3
White	71.4	62.2	59.4	59.1	64.6	60.2	62	61.3	61.9	58.7	57.8	53
Black	66.5	60.9	82.4	70.1	73.2	69.8	66.4	68.2	67.3	68.2	66.4	63
Native American	53.1	72.9	48.1	56.4	142.7	95.6	92.2	53.4	44.5	32.1	43.4	53
Asian	53.2	54	41.2	24.6	30.3	55	60.8	47.7	40.5	37.4	31.5	29.6
†Hispanic	.	.	.	33.7	34.97	33.04	25.21	34.13	29.51	27.66	23.74	25.62
†Non-Hispanic	.	.	.	43.45	46.08	45.02	46.92	46.07	46.98	49.83	45.89	43.38
All	70	62	65.1	61.2	66.8	63.5	63.9	62.9	62.5	60.2	59.3	55.2

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.28.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: transplant patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	.	.	.	.	.	.	14.9	12	10.1	10.3	6.5
20-29	.	.	.	.	.	.	.	.	12.8	12.6	11.8	10.3	7.8
30-39	.	.	.	.	.	.	.	.	19.1	19	18.7	16.8	12.9
40-49	.	.	.	.	.	.	.	.	28.4	30.1	32.9	28.5	25
50-59	.	.	.	.	.	.	.	.	40.7	45.6	50.2	46.3	37.8
60-64	.	.	.	.	.	.	.	.	55.9	53.7	65	65.6	65.3
65-69	.	.	.	.	.	.	.	.	68.6	69.6	97.6	77.4	80.1
70-79	.	.	.	.	.	.	.	.	59	82	97.8	73.8	90.9
80+	.	.	.	.	.	.	.	.	115.7	108.4	148.5	233.2	188.8
0-19	.	.	.	.	.	.	.	19.6	15.3	14.5	15.7	10	7.2
20-44	.	.	.	.	.	.	.	18.6	18.7	18.3	18.9	16.4	13.5
45-64	.	.	.	.	.	.	.	41.4	38.8	42.1	45.7	46	39
65-74	.	.	.	.	.	.	.	69.8	62.5	70.5	118.8	77.8	83.3
75+	.	.	.	.	.	.	.	377.8	50.6	72.3	86.6	88.1	104.3
Male	.	.	.	.	.	.	.	87.8	47.4	58.3	73.8	59.7	58.7
Female	.	.	.	.	.	.	.	104.6	35.4	36.9	49.8	45.8	48.1
White	.	.	.	.	.	.	.	89.2	41.5	48.7	57.5	49.7	50.3
Black	.	.	.	.	.	.	.	125	43.2	48.9	77.7	63.7	63.5
Native American	.	.	.	.	.	.	.	128.3	58.9	43.7	50.2	42	26.4
Asian	.	.	.	.	.	.	.	18.1	17.6	19.8	13.9	21.7	30.7
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
All	.	.	.	.	.	.	.	89.3	41.8	48.2	61.9	53.1	53.8
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	8.1	6.9	6	5.5	7.5	7	6.8	5.3	5.5	6	7.3	6.2	
20-29	9.9	8.1	7.8	6.3	8.2	6.6	7.4	6.7	7.9	7.3	6.6	6.1	
30-39	14.1	11.6	11.5	10.2	13	10.9	11.3	11.5	12.7	11.5	11	8.9	
40-49	22.2	22.5	23.3	24.3	25.3	23.1	20.2	21.1	21.6	20.4	18.9	15.7	
50-59	39.8	40.6	41.3	43.2	44.5	40.6	37	37.5	36.6	32.1	31.7	27.4	
60-64	56.7	57.4	58.8	62.3	67.1	59	53.3	53	54.6	49	48.8	47.1	
65-69	67.3	68.4	73.3	84.4	77.7	80.2	65	71.4	67.5	63.1	61.3	57	
70-79	70.4	90.8	100.2	123.4	106.1	113.7	102.9	110.3	108	99.2	99.4	86	
80+	251.1	236.5	174.4	140.1	179.1	194.6	139.8	179.6	166.4	151.8	146.1	156.1	
0-19	8.3	6.9	6	5.3	7.3	7.3	6.8	5.3	5.6	6.2	7.7	6.4	
20-44	13.6	12.5	12.3	11.7	14	12.6	12.3	12.3	13.7	12.6	11.7	9.7	
45-64	39.5	38.5	39.8	41.3	42.5	38.4	35	35.9	35.6	32.2	31.7	28.4	
65-74	61.9	72.7	80.2	93.9	85.6	88.5	73.7	80.4	76.6	72	69	62.3	
75+	97.7	114.8	148.2	163.8	125.4	132.1	121.7	139.9	139.3	124.7	133.4	116.4	
Male	53.3	60.5	71.1	71.1	62.6	64	59.5	61.8	62.3	57.3	57	50.1	
Female	42.1	43.6	46.1	60.1	54.7	52.9	45.3	51.7	49.9	44.5	46.1	40.9	
White	47.9	54.2	58.8	65.6	57	58.9	54.8	58	58.5	51.2	52.9	46	
Black	51.7	49.3	62.8	69.2	63.9	59.9	49.2	56.9	53.6	52.7	51.6	46.6	
Native American	31	60.7	53.5	74.4	66.2	39.7	31.2	55.3	64.8	71.6	54.6	46.4	
Asian	25.6	42.3	44.9	41	45.9	51.8	45.4	41.1	36.4	30.9	29.4	34.4	
†Hispanic				22.52	21.05	16.11	17.34	15.99	24.37	11.99	15.95	18.62	
†Non-Hispanic				31.81	32.37	31.62	29.33	33.04	33.06	30.41	31.38	27.74	
All	48.3	52.6	59	65.8	58.9	58.9	52.8	57.1	56.4	51	51.8	45.7	

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

"." Zero values in this cell.

Table H.28.1 (supplement)

Annual mortality rates per 1,000 patient years at risk: transplant patients, by primary diagnosis, adjusted*period prevalent patients, 2001 ESRD patients as reference*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	.	.	.	.	.	.	23.2	22	16.2	14.3	11.1
20-29	.	.	.	.	.	.	.	.	20.4	21.6	19	15.6	12
30-39	.	.	.	.	.	.	.	.	31.5	30.2	27	21.5	18.1
40-49	.	.	.	.	.	.	.	.	48.5	44.8	45.2	37.9	32
50-59	.	.	.	.	.	.	.	.	69.4	62.5	64.7	53.1	44
60-64	.	.	.	.	.	.	.	.	86.9	67.6	71.3	70	69.3
65-69	.	.	.	.	.	.	.	.	105	81.4	95.1	75.6	77.5
70-79	.	.	.	.	.	.	.	.	89	89.6	89.9	76	80.1
80+	.	.	.	.	.	.	.	.	171.6	109.5	127.9	209.5	151.7
0-19	.	.	.	.	.	.	.	36.3	23.5	20.5	13.5	14	10.7
20-44	.	.	.	.	.	.	.	31.2	30.3	30.4	29	22.9	18.7
45-64	.	.	.	.	.	.	.	66.9	67.6	59.5	61.2	52.6	47.1
65-74	.	.	.	.	.	.	.	97	105.8	88.4	96.7	79.8	77.3
75+	.	.	.	.	.	.	.	76	89.1	88.3	107.4	85	89.8
Male	.	.	.	.	.	.	.	76.9	81.2	76	79.3	67	63.2
Female	.	.	.	.	.	.	.	52.4	60.6	50.4	58.3	46	43.9
White	.	.	.	.	.	.	.	51.6	65.2	55.4	64.9	52.6	50.2
Black	.	.	.	.	.	.	.	91.2	89	84.3	83.2	64.8	61.5
Native American	.	.	.	.	.	.	.	393	62	62.5	54.5	66.4	48.9
Asian	.	.	.	.	.	.	.	6.4	13.9	18.1	16.9	59.6	56.2
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
All	.	.	.	.	.	.	.	63.1	71.7	63.8	69.5	57.2	54.1
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	11.1	9.8	8.6	9.7	10.2	9.6	9.4	6.8	6.7	6.7	9.8	8.5	
20-29	14.1	11.7	10.8	10.1	10.4	8.6	9.9	8.4	9.3	8.1	8.5	8.1	
30-39	19.1	17.2	16.7	14.8	15.6	13.1	14.8	13.8	14.6	12.7	13.6	11.9	
40-49	30.3	32.1	30.5	31.2	28.5	26	25.2	24.3	24.2	22.3	22.5	20	
50-59	51.2	49.6	49.8	49.4	47.2	42.7	44.9	41.7	40.1	34.9	36.2	31.1	
60-64	73.3	71.9	73.9	65.8	67	58.2	62.1	56.7	58.5	51.8	53.7	52.2	
65-69	89.1	85.2	91	81	72.8	74.1	73.4	73.6	70.6	67.6	65	65.3	
70-79	92.9	112.6	120	105.4	93.5	99	111.9	109.5	110.2	103.9	101.4	95.2	
80+	325.1	281	205.1	108.2	148.5	157.9	147.1	171.7	165.8	158.6	143.6	165	
0-19	10.3	9.6	8.2	9.5	9.9	9.3	9.2	6.7	6.5	6.7	9.6	8.4	
20-44	19.8	17.8	16.6	17	16.9	15.2	16	14.9	15.3	13.8	14.1	13.3	
45-64	50.4	50.2	50.6	47.8	45.7	40.8	43	40	39.6	35.2	36.4	32.3	
65-74	88.3	94.1	100.9	89.1	82	83.2	85.2	84.7	82.6	77.9	74.7	71.9	
75+	164.1	146.3	175.6	123.2	107.1	116.3	135.1	143.8	144.6	130.6	138.8	141.7	
Male	83.4	78.3	82.3	67.7	62.2	61.1	68	66.6	67.4	60.9	61.7	57.3	
Female	52.8	55.7	62	55.1	50.9	51.1	52.8	53.2	51.6	48	50.2	51.8	
White	60.7	60.5	62.5	56.4	52.1	53.9	55.4	57.1	57.1	54.1	55.9	55.2	
Black	88	79.8	96.4	73.5	66.6	62.8	73.6	70.9	69.4	59.3	59.3	54.5	
Native American	50.5	68.7	52.7	46.5	54.1	45.8	42.4	47.8	42.7	49.5	43.7	41	
Asian	54.4	75.7	68	64	56.4	47.6	45.2	31.1	37.4	36.3	36.1	44.7	
†Hispanic				21.67	20.86	19.76	20.28	21.97	19.31	22.45	21.14	21.46	
†Non-Hispanic				35.41	33.21	32.99	36.09	34.27	35.31	34.71	36.45	34.95	
All	69	67.4	72.1	61.7	56.9	56.5	60.7	60.3	59.8	54.6	56.2	54.7	

Reference cohort is 2001 ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for diabetes, hypertension, glomerulonephritis, & other are adjusted for age, gender, & race.

Mortality rates for age, gender, & race under each primary diagnosis are adjusted for the remaining two variables.

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

Patient age is determined on January 1 of each calendar year.

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

." Zero values in this cell.

Table H.28.2 (supplement)

Annual deaths per 1,000 patients: transplant patients, by primary diagnosis*period prevalent patients*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	20.1	29.4	24	.	20.5	15.5
20-29	22.7	23.8	22.2	.	18.9	16.3
30-39	31.6	33.3	30.1	.	25.5	23.5
40-49	44.4	45.2	43.9	.	44.9	39.3
50-59	66.5	63.4	61.8	.	60.7	50.6
60-64	77.5	70.5	65.6	.	71.4	75.8
65-69	61.9	80.6	76.4	.	75.3	83.7
70-79	76.7	63.1	81	.	71.1	84.2
80+	229.6	121.5	97	.	178.6	146.4
0-19	17.2	31.4	24.7	28	20.9	14.6
20-44	31.3	32.9	30.6	31.5	28.1	25.2
45-64	62.3	59.9	58.7	61.8	60.2	53.4
65-74	65.3	78.8	78.5	90.3	78.4	87.8
75+	128.7	60.1	68.6	63.7	74.5	96.7
Male	78.1	66.3	69.8	68.4	67.3	67.6
Female	45	51.1	47	53.9	52.4	58.7
White	52.4	60	58.7	60.9	58.9	64.7
Black	95.3	61.8	62.6	66.8	64.8	66
Native American	157.7	55.6	44.1	44.9	49.8	32.4
Asian	11.4	24.3	30.2	40.3	54.5	38.6
†Hispanic
†Non-Hispanic
All	60.4	59.3	59	61.4	60.4	63.5

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	13.7	14.9	11.9	12.2	12.6	14.4	13.2	10	9.8	10.9	13.2	12.2
20-29	17.4	17	14.5	12.6	12.9	12.3	13.3	11.8	13.2	12.6	11.3	11.2
30-39	23.8	22.4	20.9	18.1	19.1	18.3	19.1	18.7	20	18.5	17.7	15.7
40-49	36	37.9	36.2	36.4	34.4	35.2	31.7	31.6	31.8	30.9	28.6	25.9
50-59	56	57.9	56.4	56.6	55.9	54.7	52.3	51.9	50.3	45.8	44.9	40.5
60-64	73.5	77.7	78.5	73.1	78.3	71.2	69	67.6	70.4	63.5	64.9	63.3
65-69	87.4	86.6	92.7	87.4	85.4	88.7	81.3	85.1	81.9	78.4	76.9	75.9
70-79	89.2	102.6	116.1	112	108.9	112.6	117.1	120.9	121.9	113.8	116.7	106.1
80+	272.6	233.6	183.5	111.7	169.4	170.6	147	178.9	173.9	163.5	160.2	174.2
0-19	10.6	15.2	12.4	13	13.8	16	13.3	10.6	10.4	11.4	14.9	12.9
20-44	24.4	24.4	22.3	21.6	22	22.3	21.3	21.1	22.1	21.1	20	18
45-64	54.4	56.5	55.7	54.2	54.4	52.7	50.5	50.3	50.2	46.4	45.8	42.4
65-74	89.3	91.4	99.4	94	91.8	95.9	92	95.3	93	88.4	87.6	83
75+	169.6	121.3	149.1	123.5	115.1	119.2	138.3	147.7	148	139.7	145.8	146
Male	87.4	78.1	87.5	74.4	70.9	72.9	75.6	77.9	77.8	72.5	72.7	69.9
Female	68.6	60.3	61.1	62.6	65.2	64.5	65	66.3	66	62.6	64.3	61.6
White	80.8	71	73.1	69.1	68.6	68.6	71.4	71.7	71.4	66.6	68	65.1
Black	78.4	68.2	81.2	71.3	70.1	71.7	70.8	76.3	76.7	73.4	73.1	69.1
Native American	63.5	77.9	50.4	59.7	87	68.3	70.1	66.8	62.7	57.4	56.4	54.8
Asian	47.2	60.1	70.9	55.6	58.5	58.6	61	54.7	51.8	46.9	44.3	47.2
†Hispanic	.	.	.	29.19	28.72	27.86	27.64	31.69	31.01	27.83	27.9	28.67
†Non-Hispanic	.	.	.	39.53	40.45	41.12	40.52	41.15	42.69	41.08	41.78	40.44
All	79	69.8	74.4	68.9	68.5	69.3	70.7	72.5	72.2	67.8	68.7	65.8

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

." Zero values in this cell.

Table H.28.2 (supplement)

Annual deaths per 1,000 patients: transplant patients, by primary diagnosis*period prevalent patients*

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	21.4	50.1	39	.	36.6	26.5
20-29	35.2	37.4	35.5	.	31.2	26.3
30-39	46.3	48.5	44	.	38.5	36.4
40-49	58.1	60.5	57.6	.	65.9	57
50-59	84.7	84.8	81.8	.	76.8	66.9
60-64	84.4	79.7	81.7	.	75.4	92
65-69	56	76.7	89.7	.	76.2	96.7
70-79	96.4	55.3	84.9	.	63.6	89.4
80+	201	95.1	93.4	.	131	140.9
0-19	12.6	55.7	38.7	50.4	35.8	22.8
20-44	46	49	44.4	46.7	42	38
45-64	79.4	77.1	76.5	78.4	77.7	70.4
65-74	64	74.4	95	92.9	83.4	107.8
75+	60.6	44	69.1	45.4	63.6	115.3
Male	78.8	73.6	84.9	76	74.1	84
Female	47.9	55.1	59.6	62	64.2	78.3
White	66.4	68.8	76.9	70	69.2	85.1
Black	64.8	60.8	66.5	69.1	69.2	78.4
Native American	108.9	66.6	56.4	56.1	68.5	37.4
Asian	8.8	33.7	46.5	57.6	68.1	38.1
†Hispanic
†Non-Hispanic
All	65.1	65.3	73.3	69.3	69.4	81.3

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	20.9	23.2	18.5	19.1	20.7	24.4	22.1	16.1	15.4	17.3	20.5	19.2
20-29	25.3	25.6	21.7	18.9	20.2	19.5	21.1	18.3	20.1	19.2	17.1	17.2
30-39	34.4	32.9	30.6	26.6	28.3	28.6	29.1	27.9	29.5	27.1	25.9	23.3
40-49	51.5	52.1	49.7	49.4	48.4	52	47.2	45.7	45.3	43.7	40.5	37.2
50-59	74.2	75.7	73.8	73.6	74.1	74	70	70.3	68.9	62.6	61.4	56.5
60-64	87.7	98.8	99.2	91.5	97.6	91.7	86.4	86.7	92.6	81.3	85.6	82.6
65-69	105.8	107.1	115.4	104.2	99.5	108.4	97.5	105.6	103.3	97.1	97.7	99
70-79	101.2	116.7	135.8	125.2	117.3	125.5	132.4	143.1	147.2	133.9	142.5	130.6
80+	299.9	254.3	201.8	117.1	169	179.1	152.8	200.1	200.5	183.6	187.7	207.2
0-19	13.7	23.6	19.4	21.1	23.4	28.1	21.8	17.1	16.5	17.9	23.7	20.6
20-44	34.3	35.9	33	32.2	33.1	35.1	32.5	31.8	32.8	31	29.8	27.2
45-64	71.1	72.8	71.3	69.3	71.4	71.6	67.9	67.9	68.6	62.8	62.3	58.2
65-74	111.7	110.7	121.9	109	102.3	113.1	109.5	117.3	115.4	107.9	110.9	107.1
75+	229.3	131.7	164	121.3	106.3	116.3	155.1	169	169.1	162.2	168.4	178.7
Male	111	92.9	108.4	85.6	76.5	82.9	89.1	94.6	93.8	86.3	88.4	89.6
Female	93.3	76.5	73.5	75.3	78.6	81.1	84.6	85.4	86	82.4	84	79.8
White	108.7	89.2	95.5	84.4	80.8	83.9	91.2	90.6	89.3	83.3	85.3	84.9
Black	93.4	76.7	83.1	73.2	70.1	80.1	78.1	90	93.6	89.6	90.6	87.6
Native American	88.1	93.7	52	64.4	65.2	65.3	75.7	88.8	84.3	75	71.6	66
Asian	45.3	63.6	103.2	80.2	83	67.5	70.6	73.1	70.8	63.2	61.3	65
†Hispanic	.	.	.	46.83	46.15	50.74	52.93	62.4	53.87	52.27	51.24	48.3
†Non-Hispanic	.	.	.	53.71	57.54	61.6	56.74	57.81	62.37	57.7	59.63	60.87
All	103.2	85.2	91.7	80.7	77.5	82.2	86.9	90.4	90	84.3	86.1	84.7

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

"." Zero values in this cell.

Table H.28.2 (supplement)

Annual deaths per 1,000 patients: transplant patients, by primary diagnosis*period prevalent patients*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	11.4	13.9	11.3	.	8.6	8.8
20-29	12.4	13.4	10.7	.	8.8	10.2
30-39	17.8	21.6	17.1	.	15.3	15.8
40-49	38.6	34.5	32	.	32.8	29.6
50-59	56.8	49.1	48.6	.	54.2	41.3
60-64	64.2	56.2	55.5	.	73.8	68.2
65-69	57.3	82.7	66	.	74.6	77
70-79	47.9	61.7	70.7	.	77.4	84.2
80+	286.8	138.1	103.1	.	227.8	152.8
0-19	10.6	14.2	14.5	15.1	11.9	10.4
20-44	21	21.4	18.7	19.9	19.1	18.7
45-64	51.6	47.3	47	52.3	52.7	44.6
65-74	52	80.9	58.2	79.7	73.7	77.2
75+	164.1	72.8	52.9	50.2	78.2	77.7
Male	86.3	59.9	52.6	55.2	64.3	56.3
Female	25.8	48.4	36	48.3	44.9	49.3
White	38.5	54.7	42.4	52.3	53.8	54.2
Black	116.1	57.4	52.2	52.8	60.5	54.3
Native American	188.3	36.2	16.9	22.9	15.6	17.7
Asian	14.7	25.8	22.1	46.7	46.6	32.4
†Hispanic
†Non-Hispanic
All	52.9	54.6	44.5	51.8	55	53.1

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	9.5	11.8	8.6	8.5	6.3	7.9	7	6.2	6.4	7.6	8.4	8
20-29	13.6	14.2	10.9	9.1	7.2	7.5	8	7.8	9.1	9.1	7.6	7.7
30-39	18.8	18.1	16	13.3	12	11.4	12.2	13	14.4	14	12.6	11.1
40-49	28.4	32.1	29.6	29.2	24.4	25.1	21.6	23	24.1	24.6	21.4	19.6
50-59	45.8	50.8	47	47	44.4	44.3	41.8	41.3	39.9	37.7	35.4	31.9
60-64	68.8	68.8	67.6	61.2	68.9	60.6	60.3	58	58.3	55.5	53.6	53.9
65-69	77.9	74.8	78.9	73.8	82.9	79.4	77.5	75.3	70.7	70	66.6	62.5
70-79	91.4	91.6	102.8	99.3	116.9	109.1	113.5	109.8	109.7	105.3	105.7	93.7
80+	275.8	208.6	166.6	100.5	199	177.8	158.3	172	162.5	156.1	151.5	158.4
0-19	8.2	12.6	9.4	8.7	7.1	8.9	7.9	7	7.1	8.4	10.2	8.7
20-44	20.9	20.5	17.4	15.8	14.5	14.9	14.3	15.1	16.4	16.5	14.7	12.5
45-64	46	50.9	48.5	46.6	44.9	43.1	41.1	41.4	40.9	39.7	37.4	35.6
65-74	78.8	79.8	84.6	81	92.6	88.4	87	83.7	81.9	78.9	76.4	70.2
75+	157.3	105.4	129.6	117.1	138.4	128	134.5	136.8	136.6	131	135.3	127.7
Male	77.1	69.8	74.4	67.5	72.1	70.1	71.3	70.5	69.6	67.2	64.6	58.8
Female	60.5	51.7	52.3	52.8	59.7	54.6	53.7	53.9	54	52	53.4	51.3
White	71.1	61.5	58.3	58.6	64.1	59.6	60.5	61	61.4	58.3	57.7	53
Black	64.8	60	80.1	69.4	72.5	69	66.6	67.9	67.2	67.7	66.2	63
Native American	51.7	70.7	47.3	56.7	135.9	93.7	90.8	53.2	44.7	32.7	44	52.8
Asian	53.3	54.3	41.5	24.8	30.7	54.5	60.8	48.3	40.7	37.3	32	30.4
†Hispanic	.	.	.	33	34.25	32.32	24.79	33.46	28.91	27.11	23.38	25.21
†Non-Hispanic	.	.	.	42.42	44.76	43.77	45.56	44.94	45.64	48.26	44.63	42.27
All	69.5	61.3	63.7	60.6	66.2	62.8	62.7	62.6	62.1	59.7	59.1	55.1

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

"." Zero values in this cell.

Table H.28.2 (supplement)

Annual deaths per 1,000 patients: transplant patients, by primary diagnosis*period prevalent patients*

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	16.7	14.4	13.3	.	10.6	6.7
20-29	12.2	12.5	11.8	.	10	8.1
30-39	19	18.6	18.4	.	16.7	13.1
40-49	27.5	27.7	28.9	.	27.1	23.5
50-59	44	39.1	43.4	.	44.3	36.2
60-64	68.2	54.7	49.3	.	63.5	63.9
65-69	50.6	66.6	63.9	.	75.5	77.6
70-79	92.4	58.2	76.4	.	70.4	87.7
80+	294.3	114	94.6	.	203.9	165.8
0-19	17.7	14.9	14.6	14.8	9.8	7
20-44	18	18.2	17.7	18.3	15.9	13.3
45-64	39.9	37.6	40.4	44	44.4	37.8
65-74	63.7	62.6	66.7	111.5	74.3	79.8
75+	255.2	51.6	69.7	81.6	83.1	99.3
Male	74.3	47.1	58.3	71.9	58.8	58.2
Female	86.5	37	35.9	49.3	45.6	48.8
White	76.5	42.5	49.4	56.8	49.5	50.9
Black	99.2	42.9	45.3	75.7	62.2	62.8
Native American	90.6	58.1	40.9	48.5	42.1	26.2
Asian	16.9	17.1	18.8	13.6	21.5	31.2
†Hispanic
†Non-Hispanic
All	75.3	42.4	47.8	60.6	52.4	53.9

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	7.7	6.8	5.8	5.3	7.2	7	6.8	5.2	5.4	5.9	7.1	6
20-29	9.6	8	7.6	6.2	8	6.5	7.4	6.6	7.8	7.3	6.5	6
30-39	13.8	11.2	11.2	10.1	12.8	10.8	11.2	11.4	12.5	11.4	10.9	8.7
40-49	21.6	22.1	22.9	24	24.7	22.4	19.8	20.8	21.2	20.1	18.6	15.5
50-59	38.8	39.8	40.3	42.1	43.2	39.7	36	36.3	35.6	31.2	30.9	26.9
60-64	55.1	55.5	56.8	60	64.3	56.4	52	52.4	52.8	47.6	47.2	46
65-69	64.3	65.7	70.6	81.2	74.4	76.9	62	68.6	64.9	60.5	59	55.1
70-79	66.4	85.9	94.1	116.3	100.6	106.9	97.8	104.4	102	93.9	94.3	82.2
80+	213.3	211.2	161.7	130.8	164	176.3	129.1	164.3	153.3	140.8	136.1	144
0-19	8	6.7	5.8	5.1	7	7.1	7	5.3	5.5	6.1	7.5	6.2
20-44	13.2	12.3	12	11.6	13.8	12.4	12.1	12	13.5	12.4	11.5	9.6
45-64	38.5	37.7	38.8	40.3	41.2	37.4	34.2	35.1	34.7	31.5	31	27.8
65-74	59.2	69.5	76.7	89.8	81.9	84.7	70.9	77.3	73.4	68.8	66.3	60.3
75+	88.7	107.8	135.7	151.9	117.8	122.4	111.7	129	130.6	117.1	124.6	109.7
Male	51.6	60.2	70.5	71	62.3	63.6	58.2	61.5	62.4	57.4	57.2	50.4
Female	42.6	44	46.1	60.2	54.7	53	46.4	52.1	50.3	44.9	46.6	41.7
White	47.6	54.2	58.5	65.5	56.9	58.6	54.8	57.8	58.6	51.5	53.1	46.5
Black	49.9	49.2	62.4	69.5	63.7	59.6	48.3	57.1	54	53	51.9	47.2
Native American	30.8	59.9	53.2	74	65.8	40.1	31.2	55	64.3	71.6	54.9	46.8
Asian	25.6	42.4	45.5	41.5	46.3	51.9	45.7	41.7	36.8	31.2	30.1	35.4
†Hispanic	.	.	.	22.17	20.7	15.91	17.08	15.79	23.91	11.85	15.74	18.35
†Non-Hispanic	.	.	.	31.06	31.59	30.84	28.7	32.31	32.23	29.68	30.61	27.17
All	47.7	52.6	58.7	65.8	58.7	58.6	52.6	57	56.6	51.3	52.1	46.3

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

"." Zero values in this cell.

Table H.28.2 (supplement)

Annual deaths per 1,000 patients: transplant patients, by primary diagnosis*period prevalent patients*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	.	.	.	.	.	.	.	31.5	21.8	19.7	.	13.3	10.3
20-29	.	.	.	.	.	.	.	17.6	19.5	20.4	.	15.8	11.5
30-39	.	.	.	.	.	.	.	34.1	30.4	29	.	21	17.1
40-49	.	.	.	.	.	.	.	44.1	46.9	45.9	.	36.2	31.2
50-59	.	.	.	.	.	.	.	65.7	65.3	58.4	.	50.2	43.4
60-64	.	.	.	.	.	.	.	81.9	81.7	60.7	.	66.5	65.2
65-69	.	.	.	.	.	.	.	87.4	97.4	74.7	.	70.4	74
70-79	.	.	.	.	.	.	.	53.2	81.1	88	.	75	74.6
80+	.	.	.	.	.	.	.	137.9	156.1	97	.	182.2	136.7
0-19	.	.	.	.	.	.	.	33.3	21.8	18.7	12.6	13	10
20-44	.	.	.	.	.	.	.	29.9	29.2	29.4	27.9	22.3	18.1
45-64	.	.	.	.	.	.	.	62.8	64.3	56.5	58.2	50.1	45.4
65-74	.	.	.	.	.	.	.	81.3	97.3	82.6	90.8	75.7	73.6
75+	.	.	.	.	.	.	.	49.9	81.5	85.1	100.9	82.8	86.2
Male	.	.	.	.	.	.	.	65.3	76.7	74.4	77	65.8	62.5
Female	.	.	.	.	.	.	.	47.5	58.7	48.5	56.8	45.5	43.6
White	.	.	.	.	.	.	.	47.4	62.3	54.6	63.3	52.1	49.8
Black	.	.	.	.	.	.	.	79.5	85	80.7	80.4	63.2	60.7
Native American	.	.	.	.	.	.	.	217.9	60.4	59.5	53	66.6	47.8
Asian	.	.	.	.	.	.	.	5.4	13.2	17.5	16.4	58.2	55.4
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.
All	.	.	.	.	.	.	.	55.4	68.3	62	67.5	56.3	53.6
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	10.2	9.2	8.1	9.2	9.7	9.3	8.9	6.6	6.4	6.5	9.4	8.2	
20-29	13.8	11.2	10.4	9.9	10.1	8.8	9.6	8.2	9	7.9	8.3	8	
30-39	18.3	16.8	16.3	14.4	15.2	13.1	14.9	13.7	14.2	12.5	13.3	11.8	
40-49	29.2	31.4	29.5	30.3	27.7	25.3	24.2	23.4	23.6	21.8	21.9	19.6	
50-59	49.2	47.2	47.6	47.5	45.5	41.3	43.7	40.6	38.7	33.9	35.1	30.1	
60-64	69.2	67.9	70.3	63	63.9	55.5	59.4	54.2	56.1	49.9	51.5	50.1	
65-69	84.1	80.6	86.2	77.7	69.8	70	69.1	70.5	67.4	64.6	62.1	62.6	
70-79	87.1	106.1	111.2	99.1	88.4	94	105.3	103.6	103.5	97.8	95.7	90.2	
80+	275.7	250.8	188.1	100.8	136	138.2	134.6	156.5	152	146.8	133	150.4	
0-19	9.6	9	7.8	9	9.4	8.9	8.6	6.5	6.3	6.5	9.3	8.1	
20-44	19.1	17.3	16.1	16.5	16.5	14.9	15.7	14.6	14.9	13.5	13.8	13.2	
45-64	48.2	48.1	48.5	46.1	44.1	39.5	41.6	38.7	38.3	34.1	35.3	31.3	
65-74	83	88.4	94.6	84.9	78.2	79.3	80	80.8	78.5	74.2	71.1	68.6	
75+	147.9	136.1	157.7	114.5	100.6	108.8	130	135	134.3	121.9	128.9	131.7	
Male	81.1	77	79.9	66.7	61.3	60.4	67.2	66.3	66.7	60.5	61.2	57.1	
Female	51.6	54.8	60.8	54.6	50.6	51	54	53.7	51.8	48.1	50.4	52.1	
White	59.6	60.1	61.6	55.8	51.6	53.5	56	57.2	56.8	53.9	55.7	55.3	
Black	85.5	78.2	93.4	72.6	66	62.5	73.3	71.1	69	59.3	59.1	54.4	
Native American	49.6	67.7	51.8	46.4	54.7	46.2	42.7	47.1	42.7	49.5	43.7	40.6	
Asian	53.1	74.2	68	63.7	56.3	47.2	46.2	31.7	38	36.8	36.7	45.2	
†Hispanic				21.24	20.46	19.39	19.92	21.54	18.95	22.02	20.72	21.08	
†Non-Hispanic				34.3	32.15	32.01	34.98	33.28	34.16	33.58	35.2	33.79	
All	67.2	66.3	70.4	60.9	56.2	56.1	60.8	60.3	59.5	54.5	56	54.7	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

"." Zero values in this cell.

Table H.28.3 (supplement)

Transplant patients: counts of total deaths, by primary diagnosis*period prevalent patients*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	29	24	21	19	25	27	28	35	29	25	17	23	15
20-29	27	48	43	71	59	71	72	79	81	74	65	64	55
30-39	83	89	130	134	200	174	225	212	244	238	222	223	222
40-49	104	117	140	127	169	168	216	239	278	316	375	378	370
50-59	53	85	99	126	130	191	188	243	276	300	357	365	324
60-64	16	*	19	24	42	47	65	69	86	96	141	176	200
65-69	*	*	*	14	12	14	29	22	52	60	102	95	139
70-79	*	*	*	*	*	*	*	*	13	22	29	31	60
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	29	24	21	19	25	27	28	35	29	25	17	23	15
20-44	144	191	244	271	352	333	406	405	462	471	476	471	455
45-64	139	158	187	211	248	318	360	437	503	553	684	735	716
65-74	*	*	*	14	12	17	33	32	62	78	126	122	188
75+	*	*	*	*	*	*	*	*	*	*	*	*	14
Male	213	258	296	343	413	457	559	615	743	770	892	921	911
Female	101	123	167	175	225	240	270	296	317	362	418	439	477
White	243	298	386	420	484	545	628	680	813	849	1,002	1,038	1,081
Black	70	82	75	89	149	143	186	212	229	261	283	289	273
Native American	*	*	*	*	*	*	*	11	*	*	11	*	13
Asian	*	*	*	*	*	*	*	*	12	13	14	24	21
†Hispanic													
†Non-Hispanic													
All	314	381	463	518	638	697	829	911	1,060	1,132	1,310	1,360	1,388
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	17	15	13	19	21	18	17	12	15	18	24	14	
20-29	70	52	46	45	54	40	51	40	51	45	36	37	
30-39	233	217	226	196	246	215	233	223	251	220	201	172	
40-49	347	454	476	523	519	566	498	551	598	602	523	497	
50-59	464	515	523	618	652	711	775	838	863	855	929	844	
60-64	204	246	276	274	356	332	380	410	468	447	532	570	
65-69	171	199	263	289	305	383	366	453	471	512	560	641	
70-79	74	119	159	187	207	289	368	408	484	527	651	658	
80+	*	*	*	*	14	14	15	29	33	39	49	71	
0-19	17	15	13	19	21	18	17	12	15	18	24	14	
20-44	460	476	465	488	533	514	489	509	561	517	450	416	
45-64	858	1,008	1,082	1,168	1,294	1,350	1,448	1,553	1,670	1,652	1,771	1,704	
65-74	227	302	389	435	474	609	636	750	818	892	994	1,072	
75+	27	22	38	45	52	77	113	140	170	186	266	298	
Male	1,080	1,183	1,315	1,415	1,492	1,678	1,744	1,878	2,074	2,072	2,179	2,237	
Female	509	640	672	740	882	890	959	1,086	1,160	1,193	1,326	1,267	
White	1,225	1,420	1,528	1,666	1,816	1,973	2,061	2,256	2,474	2,449	2,648	2,682	
Black	320	351	401	421	477	518	557	599	644	683	734	687	
Native American	15	17	17	26	25	22	29	41	36	40	45	45	
Asian	29	35	41	42	56	55	56	68	80	93	78	90	
†Hispanic				141	155	166	185	237	504	246	269	288	
†Non-Hispanic				2,017	2,222	2,405	2,520	2,730	5,970	3,021	3,239	3,224	
All	1,589	1,823	1,987	2,155	2,374	2,568	2,703	2,964	3,234	3,265	3,505	3,504	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.28.3 (supplement)

Transplant patients: counts of total deaths, by primary diagnosis*period prevalent patients*

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29			12	16	12	16	22	28	22	26	20	18	17
30-39	22	26	44	39	83	77	90	107	110	109	107	112	130
40-49	13	21	31	31	47	49	81	70	94	113	156	181	170
50-59	*	*	*	19	16	35	41	48	74	73	74	102	103
60-64	*	*	*	*	*	*	*	*	13	17	23	23	41
65-69	*	*	*	*	*	*	*	*	*	12	*	12	25
70-79	*	*	*	*	*	*	*	*	*	*	*	*	*
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	34	40	75	69	124	124	158	167	186	195	209	221	234
45-64	12	20	23	36	42	55	81	95	127	143	171	215	227
65-74	*	*	*	*	*	*	*	*	*	14	11	15	30
75+	*	*	*	*	*	*	*	*	*	*	*	*	*
Male	30	41	62	70	96	122	163	175	222	237	251	290	311
Female	16	20	36	35	71	57	78	91	95	115	141	161	185
White	43	52	93	93	142	160	214	232	270	301	328	374	424
Black	*	*	*	11	25	19	23	31	42	45	55	66	67
Native American	*	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
All	46	61	98	105	167	179	241	266	317	352	392	451	496
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	14	17	*	*	11	*	*	*	*	*	*	*	
30-39	109	118	123	107	115	127	112	99	109	97	84	75	
40-49	157	192	217	229	265	302	259	260	288	286	241	247	
50-59	154	169	180	222	244	291	313	349	383	377	387	411	
60-64	42	68	78	82	119	112	123	151	186	155	225	237	
65-69	31	42	58	57	74	99	96	138	159	166	203	242	
70-79	*	12	23	24	21	47	67	78	92	112	170	169	
80+	*	*	*	*	*	*	*	*	*	*	*	*	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	199	234	231	232	249	268	228	225	238	223	191	178	
45-64	277	330	377	417	505	567	588	642	732	699	752	794	
65-74	40	53	76	79	92	141	141	203	232	250	334	363	
75+	*	*	*	*	*	*	23	17	21	32	40	57	
Male	347	387	460	465	499	624	605	681	763	737	816	918	
Female	170	231	229	265	350	358	375	406	460	467	501	475	
White	430	513	574	597	695	784	785	832	945	927	993	1,084	
Black	73	87	94	108	127	172	160	206	231	228	268	250	
Native American	*	*	*	14	12	15	20	27	23	23	29	27	
Asian	*	*	15	11	15	11	15	22	24	26	27	32	
†Hispanic				48	54	69	83	112	220	121	132	136	
†Non-Hispanic				682	795	913	897	975	2,226	1,083	1,187	1,259	
All	517	618	689	730	849	982	980	1,087	1,223	1,204	1,317	1,393	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.28.3 (supplement)

Transplant patients: counts of total deaths, by primary diagnosis*period prevalent patients*

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	*	*	*	*	*	*	*	*	*	*	*	*
30-39	*	*	14	11	26	*	22	16	29	16	21	19	21
40-49	12	15	20	14	22	34	31	42	46	50	55	57	57
50-59	*	12	*	12	18	28	42	46	41	61	75	88	53
60-64	*	*	*	*	*	*	15	12	*	28	31	49	46
65-69	*	*	*	*	*	*	*	*	11	*	17	23	29
70-79	*	*	*	*	*	*	*	*	*	*	*	*	16
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	*	16	24	23	39	29	40	41	53	42	48	52	58
45-64	19	19	18	19	35	53	78	79	78	114	136	165	126
65-74	*	*	*	*	*	*	*	*	12	*	25	30	43
75+	*	*	*	*	*	*	*	*	*	*	*	*	*
Male	22	26	31	34	53	60	92	100	104	123	154	192	160
Female	*	*	12	11	24	23	33	26	39	44	56	57	69
White	13	15	20	24	39	39	58	58	69	70	104	126	124
Black	13	20	23	20	37	41	67	65	71	95	99	120	102
Native American	*	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
All	26	35	43	45	77	83	125	126	143	167	210	249	229

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	*	*	*	*	*	*	*	*	*	*	*	*
20-29	11	*	*	*	*	*	*	*	*	*	*	*
30-39	27	20	21	14	15	14	26	21	34	21	20	14
40-49	52	75	72	82	66	72	53	69	69	93	55	67
50-59	84	116	98	119	122	139	135	150	145	146	143	132
60-64	47	59	60	58	81	72	80	90	82	104	103	99
65-69	38	44	54	54	77	82	97	85	98	106	111	104
70-79	23	23	43	45	67	65	91	104	117	134	151	150
80+	*	*	*	*	*	*	*	*	*	11	15	19
0-19	*	*	*	*	*	*	*	*	*	*	*	*
20-44	62	58	45	54	45	54	52	56	64	66	45	34
45-64	159	222	209	224	242	250	250	277	269	303	278	280
65-74	52	66	88	83	136	128	168	155	178	197	210	201
75+	12	*	*	17	15	23	23	42	46	54	67	72
Male	203	255	257	274	310	330	360	369	389	433	405	390
Female	82	93	96	105	128	126	133	161	169	187	197	198
White	157	187	170	205	242	234	269	297	312	329	330	320
Black	118	153	177	167	183	203	206	217	229	270	256	251
Native American	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	*	*	*	17	15	14	15	19	12	12
†Hispanic				30	35	36	30	45	84	42	40	45
†Non-Hispanic				350	403	420	464	485	1,032	578	562	543
All	285	348	353	379	438	456	493	530	558	620	602	588

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.28.3 (supplement)

Transplant patients: counts of total deaths, by primary diagnosis*period prevalent patients*

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29		15	*	15	12	18	26	19	19	18	16	16	18
30-39	14	16	22	25	21	31	42	42	44	48	46	50	34
40-49	17	17	25	26	32	23	46	47	52	66	69	59	58
50-59	12	17	25	28	29	44	30	49	43	66	71	77	60
60-64	*	*	*	*	*	*	11	13	22	22	34	44	46
65-69	*	*	*	*	*	*	*	*	14	18	36	25	36
70-79	*	*	*	*	*	*	*	*	*	*	*	*	23
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	22	41	49	56	50	61	101	81	91	97	94	90	78
45-64	28	26	35	43	52	65	54	89	89	123	142	156	138
65-74	*	*	*	*	*	*	*	*	17	25	45	29	55
75+	*	*	*	*	*	*	*	*	*	*	*	*	*
Male	37	50	64	82	84	93	115	132	155	179	217	198	198
Female	20	25	28	28	27	46	58	55	53	78	73	86	82
White	47	61	77	93	88	109	128	147	163	200	221	227	217
Black	*	14	15	15	22	27	37	33	38	49	64	51	51
Native American	*	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
All	57	75	92	110	111	139	173	187	208	257	290	284	280
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-29	18	11	17	*	17	11	20	*	21	20	*	13	
30-39	48	28	33	36	60	36	38	52	52	48	40	29	
40-49	70	81	93	107	96	96	91	118	126	105	100	78	
50-59	98	110	112	124	138	130	132	148	159	138	179	145	
60-64	41	49	53	57	70	69	76	83	87	82	83	101	
65-69	35	47	64	81	68	96	69	102	91	90	102	109	
70-79	13	33	40	63	56	77	91	100	116	121	137	130	
80+	*	*	*	*	*	*	*	*	14	*	19	15	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	
20-44	94	79	93	90	121	92	97	109	138	111	92	78	
45-64	181	200	215	243	260	250	260	301	307	282	320	288	
65-74	46	74	95	132	113	159	136	175	174	178	190	198	
75+	*	*	*	14	15	20	27	32	47	40	68	56	
Male	245	255	303	326	351	376	366	407	458	426	444	433	
Female	84	114	113	155	168	152	160	214	212	192	232	188	
White	268	311	341	389	404	435	431	498	546	480	542	494	
Black	51	45	58	74	90	72	76	92	91	100	104	93	
Native American	*	*	*	*	*	*	*	*	*	*	*	*	
Asian	*	*	12	12	21	19	16	23	25	28	23	26	
†Hispanic				35	36	30	36	37	118	31	44	52	
†Non-Hispanic				446	484	499	490	584	1,224	587	632	571	
All	329	369	416	481	519	528	526	621	670	618	676	621	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.28.3 (supplement)

Transplant patients: counts of total deaths, by primary diagnosis*period prevalent patients*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	22	18	18	12	15	22	19	24	18	14	*	16	*
20-29	17	28	22	38	34	33	16	28	35	29	27	26	13
30-39	44	39	50	59	70	57	71	47	61	65	48	42	37
40-49	62	64	64	56	68	62	58	80	86	87	95	81	85
50-59	28	48	57	67	67	84	75	100	118	100	137	98	108
60-64	*	*	14	16	19	28	34	35	41	29	53	60	67
65-69	*	*	*	*	*	*	16	13	24	21	39	35	49
70-79	*	*	*	*	*	*	*	*	*	11	*	15	13
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	22	18	18	12	15	22	19	24	18	14	*	16	*
20-44	81	94	96	123	139	119	107	116	132	137	125	108	85
45-64	80	93	111	113	119	145	147	174	209	173	235	199	225
65-74	*	*	*	*	*	*	16	18	30	29	45	48	60
75+	*	*	*	*	*	*	*	*	*	*	*	*	*
Male	124	141	139	157	180	182	189	208	262	231	270	241	242
Female	61	69	91	101	103	114	101	124	130	125	148	135	141
White	140	170	196	210	215	237	228	243	311	278	349	311	316
Black	44	40	33	43	65	56	59	83	78	72	65	52	53
Native American	*	*	*	*	*	*	*	*	*	*	*	*	*
Asian	*	*	*	*	*	*	*	*	*	*	*	11	*
†Hispanic													
†Non-Hispanic													
All	185	210	230	258	283	296	290	332	392	356	418	376	383
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	11	*	*	16	11	*	11	*	*	11	16	11	
20-29	27	14	16	22	23	19	14	20	23	13	18	20	
30-39	49	51	49	39	56	38	57	51	56	54	57	54	
40-49	68	106	94	105	92	96	95	104	115	118	127	105	
50-59	128	120	133	153	148	151	195	191	176	194	220	156	
60-64	74	70	85	77	86	79	101	86	113	106	121	133	
65-69	67	66	87	97	86	106	104	128	123	150	144	186	
70-79	29	51	53	55	63	100	119	126	159	160	193	209	
80+	*	*	*	*	*	*	*	12	*	17	14	28	
0-19	11	*	*	16	11	*	11	*	*	11	16	11	
20-44	105	105	96	112	118	100	112	119	121	117	122	126	
45-64	241	256	281	284	287	283	350	333	362	368	421	342	
65-74	89	109	130	141	133	181	191	217	234	267	260	310	
75+	12	11	13	12	19	28	40	49	56	60	91	113	
Male	285	286	295	350	332	348	413	421	464	476	514	496	
Female	173	202	234	215	236	254	291	305	319	347	396	406	
White	370	409	443	475	475	520	576	629	671	713	783	784	
Black	78	66	72	72	77	71	115	84	93	85	106	93	
Native American	*	*	*	*	*	*	*	*	*	*	*	*	
Asian	*	11	*	15	13	*	*	*	16	20	16	20	
†Hispanic				28	30	31	36	43	82	52	53	55	
†Non-Hispanic				539	540	573	669	686	1,488	773	858	851	
All	458	488	529	565	568	602	704	726	783	823	910	902	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	829	934	1,028	1,116	1,225	1,373	1,547	1,703	1,810	1,773	1,803	1,830	1,885
20-29	1,632	2,096	2,447	2,752	3,111	3,441	3,768	4,152	4,377	4,340	4,398	4,633	4,891
30-39	1,720	2,251	2,882	3,486	4,225	5,110	6,074	7,135	7,856	8,262	8,690	9,431	10,155
40-49	1,246	1,578	1,918	2,415	2,916	3,545	4,450	5,497	6,537	7,382	8,191	9,093	10,343
50-59	691	921	1,199	1,497	1,860	2,379	2,925	3,762	4,602	5,195	5,802	6,588	7,366
60-64	92	125	165	227	303	447	633	895	1,218	1,608	1,948	2,268	2,654
65-69	30	54	67	81	109	154	231	356	539	770	994	1,294	1,625
70-79	*	13	17	25	35	49	73	109	167	225	301	436	629
80+	*	*	*	*	*	*	*	*	*	12	13	19	24
0-19	829	934	1,028	1,116	1,225	1,373	1,547	1,703	1,810	1,773	1,803	1,830	1,885
20-44	4,006	5,204	6,383	7,559	8,916	10,472	12,221	14,288	15,792	16,576	17,555	19,086	20,685
45-64	1,374	1,767	2,228	2,816	3,500	4,450	5,628	7,153	8,798	10,211	11,474	12,927	14,725
65-74	38	65	79	100	138	196	290	444	670	947	1,229	1,646	2,145
75+	*	*	*	*	*	11	23	32	47	60	78	103	133
Male	3,774	4,843	6,010	7,268	8,663	10,338	12,393	14,836	16,952	18,367	19,809	21,823	24,080
Female	2,474	3,130	3,714	4,332	5,122	6,164	7,317	8,783	10,166	11,200	12,331	13,770	15,493
White	5,197	6,572	7,975	9,402	11,086	13,201	15,665	18,735	21,458	23,290	25,324	28,018	31,067
Black	962	1,281	1,588	1,980	2,415	2,928	3,582	4,279	4,906	5,363	5,751	6,326	7,069
Native American	42	51	69	80	98	118	147	174	205	241	287	323	372
Asian	47	69	92	139	186	254	316	430	548	674	777	925	1,065
†Hispanic													
†Non-Hispanic													
All	6,248	7,974	9,724	11,600	13,785	16,501	19,710	23,619	27,117	29,567	32,139	35,592	39,573

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	1,900	1,980	2,003	2,174	2,242	2,265	2,303	2,425	2,347	2,318	2,240	2,103
20-29	4,971	5,065	4,899	5,061	5,129	5,161	5,160	5,218	5,115	5,017	4,912	4,602
30-39	10,723	11,400	11,626	12,201	12,597	12,732	13,070	13,301	13,390	13,438	13,457	13,123
40-49	11,445	12,641	13,442	14,704	15,760	16,542	17,491	18,467	19,310	20,033	20,775	20,888
50-59	8,234	9,239	9,939	11,016	12,258	13,887	15,366	17,062	18,345	19,889	21,425	22,316
60-64	2,956	3,285	3,494	3,980	4,522	5,036	5,572	6,262	6,694	7,368	8,175	8,742
65-69	2,023	2,493	2,908	3,379	3,885	4,347	4,850	5,415	6,029	6,699	7,467	8,345
70-79	832	1,035	1,310	1,645	2,004	2,444	2,944	3,446	4,106	4,764	5,633	6,506
80+	21	26	38	44	65	75	107	142	192	247	309	375
0-19	1,900	1,980	2,003	2,174	2,242	2,265	2,303	2,425	2,347	2,318	2,240	2,103
20-44	21,774	23,076	23,397	24,658	25,507	26,091	26,875	27,656	27,870	28,047	28,250	27,533
45-64	16,555	18,554	20,004	22,304	24,760	27,268	29,784	32,653	34,984	37,698	40,494	42,138
65-74	2,735	3,360	4,015	4,722	5,491	6,297	7,167	8,082	9,189	10,345	11,718	13,170
75+	141	193	241	346	463	569	734	922	1,138	1,365	1,691	2,056
Male	26,117	28,527	30,105	32,910	35,350	37,696	40,170	42,954	45,137	47,638	50,333	52,087
Female	16,988	18,637	19,554	21,292	23,113	24,794	26,694	28,783	30,390	32,135	34,060	34,913
White	33,722	36,778	38,381	41,706	44,764	47,617	50,757	54,232	56,943	59,927	63,335	65,042
Black	7,728	8,533	9,220	10,206	11,156	12,101	13,055	14,095	14,903	15,880	16,806	17,541
Native American	401	443	503	545	599	640	681	763	801	836	873	881
Asian	1,253	1,410	1,557	1,745	1,944	2,133	2,372	2,648	2,880	3,129	3,379	3,536
†Hispanic				4,730	5,285	5,835	6,564	7,316	15,887	8,656	9,445	9,852
†Non-Hispanic				49,513	53,223	56,707	60,362	64,493	135,337	71,208	75,054	77,323
All	43,104	47,164	49,659	54,202	58,463	62,490	66,864	71,738	75,527	79,773	84,393	87,000

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	12	12	11	16	16	16	*	13	14	16
20-29	128	178	224	308	365	426	501	580	619	605	635	687	674
30-39	231	359	543	730	965	1,281	1,590	2,001	2,230	2,419	2,574	2,849	3,090
40-49	110	157	229	334	451	604	826	1,140	1,493	1,810	2,160	2,445	2,830
50-59	34	51	81	120	181	245	361	530	687	815	969	1,208	1,499
60-64	*	*	*	11	18	25	58	83	125	174	268	324	409
65-69	*	*	*	*	*	*	21	35	55	77	98	145	188
70-79	*	*	*	*	*	*	*	*	12	18	19	33	59
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	*	*	*	12	12	11	16	16	16	*	13	14	16
20-44	425	639	906	1,233	1,604	2,081	2,595	3,290	3,744	4,102	4,532	5,012	5,433
45-64	81	112	178	270	376	499	741	1,044	1,410	1,721	2,073	2,501	3,069
65-74	*	*	*	*	*	13	24	42	64	91	112	172	241
75+	*	*	*	*	*	*	*	*	*	*	*	*	*
Male	335	469	689	951	1,247	1,596	2,075	2,691	3,178	3,596	4,071	4,662	5,310
Female	183	295	409	572	757	1,009	1,302	1,705	2,061	2,331	2,666	3,046	3,459
White	485	703	997	1,375	1,790	2,339	2,991	3,875	4,575	5,141	5,823	6,634	7,505
Black	31	57	96	140	199	233	340	461	587	685	775	891	1,047
Native American	*	*	*	*	12	24	34	37	43	57	79	101	120
Asian	*	*	*	*	*	*	12	22	34	45	61	82	96
†Hispanic													
†Non-Hispanic													
All	518	764	1,099	1,524	2,003	2,605	3,377	4,395	5,239	5,928	6,737	7,708	8,769

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	*	*	12	16	13	11	*	*	*	*	*	*
20-29	623	577	531	521	474	449	437	368	349	327	293	263
30-39	3,223	3,542	3,660	3,821	3,861	3,833	3,793	3,762	3,572	3,393	3,311	3,143
40-49	3,193	3,672	4,060	4,522	4,922	5,136	5,433	5,716	5,995	6,174	6,352	6,419
50-59	1,790	2,069	2,367	2,737	3,176	3,781	4,287	4,817	5,264	5,802	6,305	6,671
60-64	492	616	723	894	1,050	1,234	1,447	1,679	1,840	2,114	2,445	2,644
65-69	243	328	434	533	664	773	941	1,147	1,399	1,631	1,870	2,189
70-79	76	91	113	164	235	315	393	486	628	794	1,003	1,213
80+	*	*	*	*	*	*	*	*	*	*	18	29
0-19	*	*	12	16	13	11	*	*	*	*	*	*
20-44	5,666	6,141	6,354	6,734	6,879	6,941	7,071	7,065	6,889	6,742	6,647	6,426
45-64	3,656	4,334	4,988	5,760	6,605	7,492	8,325	9,278	10,131	11,068	12,059	12,714
65-74	318	412	536	672	869	1,049	1,276	1,556	1,922	2,290	2,689	3,185
75+	*	*	13	25	30	42	61	80	112	144	201	245
Male	5,805	6,560	7,164	7,970	8,695	9,422	10,165	10,961	11,617	12,407	13,291	13,981
Female	3,849	4,346	4,738	5,237	5,701	6,113	6,575	7,026	7,447	7,844	8,308	8,592
White	8,217	9,228	9,976	11,001	11,878	12,693	13,573	14,477	15,278	16,136	17,157	17,797
Black	1,172	1,369	1,560	1,818	2,060	2,329	2,595	2,858	3,072	3,319	3,570	3,832
Native American	137	151	188	203	243	271	286	323	341	365	390	399
Asian	128	158	178	185	215	243	286	328	373	431	482	545
†Hispanic				993	1,136	1,315	1,522	1,726	3,951	2,236	2,495	2,740
†Non-Hispanic				12,215	13,265	14,227	15,229	16,270	34,208	18,034	19,130	19,873
All	9,654	10,906	11,902	13,207	14,396	15,535	16,740	17,987	19,064	20,251	21,600	22,573

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	46	47	54	60	69	69	85	92	88	82	78	84	81
20-29	123	150	193	228	262	299	327	351	387	371	388	432	483
30-39	196	266	321	407	535	612	762	900	994	1,037	1,070	1,139	1,204
40-49	169	233	298	400	508	620	760	956	1,140	1,278	1,385	1,521	1,709
50-59	88	119	189	249	357	466	575	741	903	1,045	1,206	1,363	1,500
60-64	*	*	13	25	39	74	121	183	251	338	409	493	593
65-69	*	12	*	13	16	24	41	55	86	152	203	278	349
70-79	*	*	*	*	12	14	18	25	38	52	71	108	145
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	46	47	54	60	69	69	85	92	88	82	78	84	81
20-44	409	539	681	866	1,052	1,219	1,457	1,729	1,950	2,044	2,148	2,347	2,563
45-64	172	235	333	443	649	853	1,088	1,401	1,725	2,026	2,310	2,602	2,926
65-74	*	17	17	21	28	37	55	75	114	188	254	358	459
75+	*	*	*	*	*	*	*	*	11	17	22	32	40
Male	426	576	739	969	1,262	1,539	1,900	2,302	2,679	2,999	3,294	3,677	4,085
Female	212	264	347	422	535	641	790	1,002	1,208	1,358	1,518	1,747	1,985
White	370	470	599	732	939	1,090	1,372	1,697	2,009	2,210	2,471	2,833	3,199
Black	263	358	468	635	822	1,032	1,253	1,524	1,761	2,005	2,183	2,415	2,660
Native American	*	*	*	*	12	16	18	19	28	27	34	37	46
Asian	*	*	*	14	24	43	47	63	90	115	124	138	165
†Hispanic													
†Non-Hispanic													
All	638	839	1,086	1,392	1,797	2,180	2,690	3,304	3,887	4,357	4,813	5,424	6,070

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	82	74	74	69	73	71	66	64	54	51	50	40
20-29	504	536	570	605	584	561	529	519	499	450	407	389
30-39	1,258	1,317	1,371	1,508	1,627	1,592	1,678	1,721	1,769	1,783	1,855	1,812
40-49	1,885	2,096	2,241	2,411	2,579	2,737	2,817	2,842	2,902	2,995	3,086	3,045
50-59	1,680	1,852	2,045	2,238	2,473	2,736	2,947	3,279	3,406	3,635	3,847	3,917
60-64	663	750	780	917	1,028	1,117	1,207	1,344	1,408	1,540	1,622	1,644
65-69	464	559	665	774	864	974	1,069	1,162	1,296	1,431	1,576	1,708
70-79	188	264	329	405	494	603	730	864	1,006	1,149	1,382	1,579
80+	*	*	*	13	19	20	29	44	54	71	94	114
0-19	82	74	74	69	73	71	66	64	54	51	50	40
20-44	2,720	2,905	2,998	3,217	3,387	3,407	3,447	3,500	3,555	3,583	3,641	3,607
45-64	3,270	3,645	4,009	4,462	4,903	5,337	5,730	6,205	6,430	6,821	7,177	7,200
65-74	617	776	940	1,107	1,259	1,453	1,621	1,816	2,043	2,290	2,598	2,842
75+	40	53	64	85	120	145	207	253	313	361	454	559
Male	4,536	4,992	5,452	6,022	6,529	6,982	7,416	7,852	8,207	8,624	9,164	9,341
Female	2,192	2,461	2,632	2,917	3,212	3,430	3,656	3,986	4,188	4,482	4,756	4,907
White	3,567	3,948	4,263	4,680	5,123	5,433	5,769	6,157	6,453	6,812	7,221	7,369
Black	2,905	3,207	3,482	3,868	4,197	4,499	4,777	5,075	5,294	5,616	5,964	6,111
Native American	49	51	64	65	57	59	67	80	91	95	94	88
Asian	208	246	276	326	364	421	460	527	556	583	640	680
†Hispanic				890	1,001	1,090	1,190	1,319	2,847	1,519	1,685	1,757
†Non-Hispanic				8,056	8,746	9,328	9,890	10,528	21,966	11,600	12,248	12,518
All	6,728	7,452	8,085	8,939	9,741	10,412	11,072	11,839	12,395	13,106	13,920	14,248

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

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

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Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	276	323	330	382	399	460	518	560	593	586	595	592	612
20-29	666	846	991	1,133	1,250	1,370	1,489	1,588	1,733	1,730	1,734	1,834	1,954
30-39	580	791	995	1,198	1,461	1,756	2,051	2,347	2,519	2,622	2,768	2,960	3,214
40-49	351	446	571	727	883	1,108	1,393	1,686	1,955	2,173	2,365	2,638	2,999
50-59	173	215	283	378	468	621	766	991	1,238	1,412	1,558	1,758	1,940
60-64	26	28	38	67	82	129	175	240	325	419	515	588	686
65-69	*	18	18	21	30	40	59	111	165	222	271	364	442
70-79	*	*	*	*	*	*	15	27	46	59	82	123	187
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	276	323	330	382	399	460	518	560	593	586	595	592	612
20-44	1,444	1,876	2,317	2,738	3,210	3,748	4,303	4,863	5,342	5,554	5,799	6,277	6,834
45-64	353	449	560	765	935	1,236	1,572	1,989	2,428	2,803	3,141	3,500	3,959
65-74	*	19	19	24	35	50	73	136	205	273	337	465	598
75+	*	*	*	*	*	*	*	*	*	*	17	23	34
Male	1,270	1,670	2,037	2,502	2,948	3,529	4,181	4,899	5,587	5,978	6,356	6,945	7,612
Female	809	998	1,192	1,408	1,632	1,967	2,289	2,655	2,988	3,246	3,533	3,913	4,425
White	1,756	2,235	2,697	3,237	3,773	4,487	5,239	6,092	6,901	7,377	7,881	8,623	9,489
Black	284	376	456	557	658	830	1,005	1,163	1,316	1,415	1,524	1,678	1,911
Native American	16	21	30	39	45	47	56	67	76	95	104	108	122
Asian	23	36	46	77	104	131	170	231	284	337	380	449	515
†Hispanic													
†Non-Hispanic													
All	2,079	2,668	3,229	3,910	4,580	5,496	6,470	7,553	8,576	9,224	9,889	10,858	12,037
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	610	615	628	692	688	677	649	667	625	610	560	528	
20-29	2,042	2,060	2,019	2,057	2,110	2,143	2,164	2,189	2,147	2,032	1,984	1,850	
30-39	3,409	3,540	3,552	3,695	3,806	3,923	4,080	4,193	4,327	4,432	4,436	4,370	
40-49	3,295	3,586	3,719	4,044	4,326	4,546	4,828	5,145	5,373	5,570	5,743	5,732	
50-59	2,153	2,413	2,515	2,777	3,065	3,369	3,743	4,109	4,459	4,852	5,261	5,422	
60-64	746	782	828	939	1,078	1,207	1,292	1,412	1,455	1,561	1,703	1,842	
65-69	534	661	781	882	1,030	1,091	1,207	1,320	1,415	1,532	1,704	1,865	
70-79	251	305	373	468	531	657	779	891	1,055	1,199	1,386	1,618	
80+	*	*	*	13	20	18	24	34	51	70	86	97	
0-19	610	615	628	692	688	677	649	667	625	610	560	528	
20-44	7,249	7,516	7,553	7,850	8,101	8,358	8,670	8,989	9,139	9,188	9,235	8,951	
45-64	4,396	4,863	5,079	5,663	6,285	6,828	7,437	8,060	8,622	9,260	9,893	10,266	
65-74	750	920	1,100	1,269	1,451	1,599	1,810	2,005	2,222	2,441	2,714	3,035	
75+	38	50	64	95	130	167	201	241	299	359	462	546	
Male	8,216	8,783	9,132	9,882	10,530	11,104	11,739	12,488	13,060	13,624	14,147	14,536	
Female	4,828	5,182	5,292	5,686	6,124	6,525	7,028	7,473	7,847	8,234	8,718	8,790	
White	10,235	10,905	11,166	11,988	12,769	13,467	14,267	15,073	15,668	16,265	17,007	17,275	
Black	2,093	2,272	2,404	2,621	2,815	3,026	3,233	3,503	3,727	3,981	4,152	4,323	
Native American	127	140	146	159	174	181	192	218	228	236	238	240	
Asian	589	648	709	800	895	955	1,074	1,167	1,284	1,375	1,467	1,488	
†Hispanic				1,554	1,711	1,862	2,077	2,313	4,842	2,585	2,758	2,793	
†Non-Hispanic				14,022	14,952	15,782	16,705	17,674	37,027	19,303	20,139	20,583	
All	13,043	13,965	14,424	15,568	16,654	17,629	18,767	19,961	20,907	21,857	22,864	23,326	

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*Values for cells with 10 or fewer patients are suppressed.

Years at risk

counts of total deaths & years at risk used to compute annual mortality rates per 1,000 patient years at risk

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	499	554	635	662	744	832	929	1,035	1,114	1,098	1,117	1,139	1,176
20-29	715	922	1,038	1,083	1,233	1,346	1,451	1,632	1,638	1,633	1,642	1,679	1,780
30-39	713	835	1,023	1,152	1,264	1,461	1,671	1,886	2,113	2,183	2,278	2,483	2,647
40-49	616	742	821	952	1,074	1,213	1,471	1,714	1,950	2,121	2,281	2,488	2,805
50-59	395	536	646	750	854	1,047	1,224	1,501	1,773	1,922	2,069	2,259	2,427
60-64	57	87	107	124	165	219	278	390	517	677	755	864	966
65-69	11	21	35	42	56	81	111	154	233	320	422	508	647
70-79	*	*	*	*	14	20	35	49	72	96	129	173	239
80+	*	*	*	*	*	*	*	*	*	*	*	*	11
0-19	499	554	635	662	744	832	929	1,035	1,114	1,098	1,117	1,139	1,176
20-44	1,728	2,151	2,478	2,722	3,050	3,424	3,867	4,406	4,755	4,877	5,076	5,449	5,855
45-64	768	971	1,156	1,338	1,540	1,861	2,228	2,717	3,235	3,661	3,949	4,324	4,770
65-74	17	24	39	49	65	96	139	190	287	395	525	651	847
75+	*	*	*	*	*	*	11	18	24	29	33	40	50
Male	1,743	2,129	2,545	2,846	3,207	3,675	4,237	4,945	5,507	5,794	6,087	6,539	7,073
Female	1,269	1,573	1,765	1,929	2,198	2,546	2,936	3,422	3,908	4,265	4,614	5,064	5,624
White	2,586	3,164	3,682	4,057	4,585	5,284	6,063	7,071	7,973	8,562	9,149	9,928	10,873
Black	385	490	568	649	736	833	985	1,131	1,243	1,258	1,270	1,341	1,450
Native American	19	18	25	24	29	31	39	51	58	62	70	77	84
Asian	23	29	35	44	55	72	87	113	141	177	212	256	290
†Hispanic													
†Non-Hispanic													
All	3,012	3,702	4,310	4,775	5,405	6,221	7,173	8,366	9,415	10,059	10,700	11,603	12,698

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	1,197	1,280	1,289	1,397	1,469	1,507	1,581	1,685	1,658	1,650	1,626	1,532
20-29	1,802	1,892	1,778	1,878	1,961	2,009	2,031	2,143	2,119	2,208	2,228	2,100
30-39	2,833	3,002	3,043	3,176	3,303	3,384	3,519	3,624	3,722	3,829	3,855	3,798
40-49	3,072	3,288	3,422	3,726	3,933	4,123	4,414	4,763	5,040	5,295	5,594	5,691
50-59	2,611	2,906	3,013	3,265	3,543	4,000	4,388	4,856	5,216	5,599	6,011	6,306
60-64	1,054	1,138	1,164	1,231	1,367	1,477	1,627	1,827	1,992	2,153	2,405	2,612
65-69	782	945	1,028	1,190	1,328	1,509	1,633	1,786	1,919	2,105	2,317	2,583
70-79	316	375	495	608	743	869	1,042	1,206	1,417	1,623	1,863	2,096
80+	13	15	17	17	25	34	51	60	79	96	111	135
0-19	1,197	1,280	1,289	1,397	1,469	1,507	1,581	1,685	1,658	1,650	1,626	1,532
20-44	6,138	6,514	6,492	6,857	7,141	7,384	7,687	8,103	8,287	8,535	8,728	8,549
45-64	5,233	5,712	5,928	6,419	6,967	7,610	8,292	9,111	9,801	10,549	11,364	11,959
65-74	1,051	1,253	1,439	1,674	1,912	2,196	2,461	2,704	3,002	3,324	3,717	4,108
75+	60	82	100	142	184	216	265	348	413	501	574	705
Male	7,560	8,192	8,356	9,036	9,596	10,188	10,851	11,653	12,254	12,984	13,730	14,229
Female	6,119	6,648	6,892	7,452	8,076	8,725	9,434	10,298	10,908	11,575	12,279	12,624
White	11,703	12,696	12,976	14,037	14,994	16,024	17,148	18,525	19,544	20,714	21,949	22,602
Black	1,559	1,685	1,774	1,899	2,084	2,246	2,450	2,660	2,810	2,964	3,119	3,274
Native American	89	101	105	118	125	129	136	140	141	140	151	154
Asian	328	358	394	434	469	514	552	626	666	740	790	823
†Hispanic				1,292	1,438	1,568	1,775	1,958	4,247	2,316	2,507	2,562
†Non-Hispanic				15,221	16,260	17,369	18,538	20,020	42,135	22,271	23,537	24,349
All	13,679	14,840	15,248	16,488	17,672	18,913	20,286	21,951	23,161	24,558	26,009	26,853

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	901	1,018	1,118	1,191	1,315	1,476	1,668	1,836	1,905	1,875	1,904	1,942	1,973
20-29	1,718	2,207	2,570	2,876	3,223	3,577	3,927	4,313	4,511	4,513	4,545	4,780	5,002
30-39	1,825	2,386	3,043	3,651	4,417	5,316	6,358	7,399	8,118	8,527	8,970	9,722	10,430
40-49	1,344	1,688	2,047	2,529	3,057	3,708	4,671	5,741	6,788	7,658	8,526	9,449	10,653
50-59	737	986	1,287	1,594	1,954	2,512	3,080	3,968	4,797	5,414	6,064	6,848	7,602
60-64	101	135	176	244	328	482	679	952	1,271	1,673	2,035	2,376	2,770
65-69	32	58	70	90	118	169	253	370	569	807	1,053	1,351	1,697
70-79	*	14	20	26	40	54	79	118	179	238	319	454	660
80+	*	*	*	*	*	*	*	13	11	13	15	22	26
0-19	901	1,018	1,118	1,191	1,315	1,476	1,668	1,836	1,905	1,875	1,904	1,942	1,973
20-44	4,235	5,504	6,742	7,910	9,298	10,908	12,778	14,833	16,311	17,160	18,163	19,719	21,235
45-64	1,490	1,898	2,381	2,984	3,681	4,687	5,937	7,540	9,174	10,625	11,977	13,456	15,222
65-74	40	70	84	110	150	215	317	465	709	996	1,304	1,719	2,245
75+	*	*	*	*	*	13	25	36	50	62	83	108	138
Male	4,038	5,183	6,398	7,664	9,076	10,826	13,047	15,548	17,627	19,102	20,640	22,667	24,827
Female	2,630	3,311	3,934	4,540	5,377	6,473	7,678	9,162	10,522	11,616	12,791	14,277	15,986
White	5,549	7,005	8,494	9,909	11,635	13,867	16,506	19,629	22,314	24,226	26,394	29,147	32,097
Black	1,027	1,366	1,670	2,064	2,527	3,044	3,735	4,451	5,061	5,552	5,944	6,511	7,253
Native American	43	52	71	84	101	125	154	184	213	247	298	335	381
Asian	49	71	97	147	190	263	330	446	561	693	795	951	1,082
†Hispanic													
†Non-Hispanic													
All	6,668	8,494	10,332	12,204	14,453	17,299	20,725	24,710	28,149	30,718	33,431	36,944	40,813
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	2,009	2,081	2,109	2,267	2,331	2,330	2,380	2,498	2,426	2,399	2,328	2,173	
20-29	5,125	5,181	5,007	5,148	5,232	5,256	5,260	5,295	5,216	5,103	4,996	4,687	
30-39	11,006	11,689	11,907	12,420	12,849	12,980	13,299	13,511	13,642	13,696	13,682	13,314	
40-49	11,754	13,021	13,842	15,100	16,170	16,977	17,880	18,858	19,813	20,549	21,263	21,312	
50-59	8,551	9,576	10,311	11,409	12,700	14,372	15,872	17,581	18,981	20,527	22,120	22,980	
60-64	3,085	3,430	3,653	4,145	4,744	5,236	5,811	6,498	6,990	7,675	8,527	9,106	
65-69	2,134	2,609	3,048	3,530	4,069	4,563	5,063	5,684	6,316	7,025	7,823	8,722	
70-79	872	1,107	1,403	1,744	2,118	2,600	3,142	3,666	4,372	5,054	5,980	6,862	
80+	25	28	40	47	72	84	115	157	208	265	335	415	
0-19	2,009	2,081	2,109	2,267	2,331	2,330	2,380	2,498	2,426	2,399	2,328	2,173	
20-44	22,360	23,664	23,966	25,160	26,057	26,634	27,380	28,125	28,449	28,635	28,760	27,988	
45-64	17,161	19,233	20,754	23,062	25,638	28,187	30,742	33,618	36,193	38,915	41,828	43,411	
65-74	2,876	3,540	4,226	4,950	5,767	6,630	7,527	8,513	9,671	10,879	12,309	13,793	
75+	155	204	265	371	492	617	793	994	1,225	1,465	1,829	2,206	
Male	27,057	29,471	31,153	33,933	36,477	38,889	41,385	44,168	46,643	49,182	51,955	53,681	
Female	17,504	19,251	20,167	21,877	23,808	25,509	27,437	29,580	31,321	33,111	35,099	35,890	
White	34,930	38,064	39,742	43,031	46,244	49,164	52,318	55,843	58,914	61,922	65,460	67,138	
Black	7,937	8,756	9,479	10,430	11,440	12,406	13,392	14,420	15,286	16,306	17,249	17,924	
Native American	415	457	513	565	613	654	698	786	822	857	903	906	
Asian	1,279	1,445	1,586	1,784	1,988	2,174	2,414	2,699	2,942	3,208	3,442	3,603	
†Hispanic				4,831	5,397	5,959	6,693	7,479	16,254	8,840	9,640	10,044	
†Non-Hispanic				51,022	54,936	58,493	62,192	66,345	139,850	73,547	77,523	79,730	
All	44,561	48,722	51,320	55,810	60,285	64,398	68,822	73,748	77,964	82,293	87,054	89,571	

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*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	*	*	*	15	15	12	16	17	17	*	13	16	16
20-29	144	201	260	340	396	459	560	633	665	666	680	731	710
30-39	262	408	604	790	1,048	1,374	1,711	2,122	2,351	2,541	2,693	2,974	3,207
40-49	121	179	262	358	494	654	902	1,212	1,568	1,896	2,284	2,599	2,951
50-59	40	57	93	138	196	271	394	571	737	870	1,025	1,276	1,572
60-64	*	*	*	13	22	26	61	94	132	186	283	339	433
65-69	*	*	*	*	*	*	22	37	56	85	103	150	199
70-79	*	*	*	*	*	*	*	*	12	19	20	34	62
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	*	*	*	15	15	12	16	17	17	*	13	16	16
20-44	478	721	1,025	1,339	1,741	2,242	2,822	3,499	3,954	4,332	4,764	5,269	5,655
45-64	93	129	202	300	415	542	806	1,133	1,499	1,827	2,201	2,650	3,218
65-74	*	*	*	*	*	13	25	45	65	100	118	179	255
75+	*	*	*	*	*	*	*	*	*	*	*	*	*
Male	375	533	779	1,038	1,352	1,722	2,259	2,887	3,376	3,811	4,305	4,907	5,530
Female	208	332	463	624	830	1,088	1,413	1,810	2,164	2,464	2,798	3,216	3,624
White	546	793	1,133	1,503	1,949	2,529	3,260	4,148	4,837	5,453	6,144	7,000	7,848
Black	35	67	102	149	218	246	364	487	620	715	812	932	1,085
Native American	*	*	*	*	12	26	35	39	47	59	83	107	124
Asian	*	*	*	*	*	*	13	23	36	48	64	84	97
†Hispanic													
†Non-Hispanic													
All	583	865	1,242	1,662	2,182	2,810	3,672	4,697	5,540	6,275	7,103	8,123	9,154

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-19	11	11	12	17	13	12	*	*	*	*	*	*
20-29	652	605	554	539	496	463	456	381	360	339	304	272
30-39	3,348	3,675	3,783	3,920	3,974	3,947	3,890	3,843	3,663	3,497	3,391	3,216
40-49	3,310	3,824	4,217	4,687	5,101	5,332	5,597	5,881	6,201	6,377	6,522	6,588
50-59	1,886	2,177	2,482	2,875	3,326	3,955	4,468	5,017	5,510	6,038	6,552	6,946
60-64	518	650	766	942	1,119	1,293	1,522	1,758	1,949	2,214	2,583	2,777
65-69	262	352	464	564	704	830	995	1,229	1,492	1,727	1,993	2,315
70-79	82	99	126	177	247	338	427	528	678	854	1,089	1,307
80+	*	*	*	*	*	*	*	*	*	11	19	34
0-19	11	11	12	17	13	12	*	*	*	*	*	*
20-44	5,880	6,382	6,577	6,935	7,100	7,158	7,261	7,238	7,080	6,956	6,802	6,586
45-64	3,834	4,549	5,225	6,028	6,916	7,832	8,672	9,642	10,603	11,509	12,550	13,213
65-74	342	443	575	716	920	1,126	1,352	1,675	2,055	2,430	2,878	3,380
75+	*	*	16	26	32	45	74	88	124	162	223	276
Male	6,076	6,852	7,483	8,293	9,038	9,818	10,545	11,356	12,118	12,897	13,821	14,555
Female	3,994	4,542	4,922	5,429	5,943	6,355	6,821	7,295	7,754	8,167	8,636	8,904
White	8,583	9,650	10,413	11,433	12,374	13,221	14,089	15,008	15,933	16,785	17,831	18,521
Black	1,211	1,423	1,617	1,880	2,133	2,424	2,687	2,964	3,199	3,452	3,721	3,963
Native American	145	158	191	215	249	280	295	339	354	377	408	412
Asian	131	163	184	194	225	248	295	340	386	450	497	563
†Hispanic				1,025	1,170	1,360	1,568	1,795	4,084	2,315	2,576	2,816
†Non-Hispanic				12,698	13,816	14,821	15,809	16,866	35,692	18,768	19,907	20,685
All	10,070	11,394	12,405	13,722	14,981	16,173	17,366	18,651	19,872	21,064	22,457	23,459

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

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Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

HYPERTENSION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	47	50	57	62	75	72	92	97	94	85	82	87	85
20-29	128	156	201	232	268	307	339	359	395	379	394	440	494
30-39	203	277	340	420	551	627	787	918	1,020	1,053	1,087	1,163	1,230
40-49	181	247	314	410	526	644	788	994	1,173	1,317	1,428	1,559	1,748
50-59	94	129	198	260	367	482	605	778	930	1,083	1,249	1,411	1,536
60-64	*	*	13	27	44	80	131	190	257	355	426	517	615
65-69	*	12	11	14	17	25	44	56	92	157	215	291	364
70-79	*	*	*	*	13	15	19	27	40	53	78	112	155
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	47	50	57	62	75	72	92	97	94	85	82	87	85
20-44	426	563	717	891	1,084	1,252	1,504	1,775	1,998	2,090	2,195	2,400	2,622
45-64	187	252	349	458	672	888	1,146	1,464	1,777	2,097	2,389	2,690	3,001
65-74	*	17	17	22	30	39	59	77	122	194	273	375	483
75+	*	*	*	*	*	*	*	*	11	17	22	33	42
Male	451	607	777	1,004	1,303	1,587	1,986	2,390	2,760	3,090	3,396	3,789	4,190
Female	220	276	365	431	558	666	820	1,031	1,242	1,393	1,565	1,796	2,043
White	390	494	631	756	976	1,131	1,434	1,761	2,073	2,272	2,556	2,927	3,298
Black	275	378	491	653	847	1,061	1,304	1,576	1,809	2,067	2,244	2,476	2,723
Native American	*	*	*	11	12	16	18	20	29	27	35	38	46
Asian	*	*	11	15	26	45	50	64	91	117	126	144	166
†Hispanic													
†Non-Hispanic													
All	671	883	1,142	1,435	1,861	2,253	2,806	3,421	4,002	4,483	4,961	5,585	6,233
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	83	77	77	70	75	72	67	65	55	54	53	41	
20-29	518	548	575	609	589	572	535	523	505	457	410	394	
30-39	1,283	1,332	1,395	1,523	1,646	1,606	1,700	1,734	1,794	1,802	1,877	1,822	
40-49	1,922	2,146	2,286	2,456	2,625	2,785	2,853	2,878	2,953	3,059	3,128	3,089	
50-59	1,729	1,910	2,111	2,301	2,545	2,824	3,035	3,354	3,500	3,732	3,939	3,994	
60-64	692	781	817	949	1,076	1,162	1,256	1,396	1,458	1,609	1,681	1,706	
65-69	490	583	694	799	911	1,019	1,126	1,210	1,351	1,504	1,638	1,769	
70-79	201	276	354	431	530	640	784	921	1,074	1,222	1,464	1,662	
80+	*	*	11	13	23	24	30	48	57	75	101	125	
0-19	83	77	77	70	75	72	67	65	55	54	53	41	
20-44	2,775	2,950	3,045	3,256	3,433	3,453	3,489	3,537	3,609	3,637	3,685	3,632	
45-64	3,369	3,767	4,139	4,582	5,048	5,496	5,890	6,348	6,601	7,022	7,350	7,373	
65-74	651	811	988	1,148	1,337	1,523	1,721	1,904	2,145	2,410	2,716	2,959	
75+	46	54	71	95	127	160	219	275	337	391	487	597	
Male	4,672	5,137	5,617	6,179	6,720	7,187	7,636	8,051	8,434	8,889	9,406	9,570	
Female	2,252	2,522	2,703	2,972	3,300	3,517	3,750	4,078	4,313	4,625	4,885	5,032	
White	3,684	4,075	4,389	4,806	5,289	5,602	5,955	6,330	6,668	7,049	7,442	7,587	
Black	2,975	3,283	3,588	3,948	4,302	4,609	4,893	5,184	5,419	5,773	6,103	6,236	
Native American	52	52	64	66	61	60	68	81	92	95	96	91	
Asian	213	249	279	331	368	433	470	534	568	597	650	688	
†Hispanic				909	1,022	1,114	1,210	1,345	2,906	1,549	1,711	1,785	
†Non-Hispanic				8,250	9,004	9,596	10,184	10,793	22,612	11,978	12,593	12,845	
All	6,924	7,659	8,320	9,151	10,020	10,704	11,386	12,129	12,747	13,514	14,291	14,602	

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Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	299	352	359	400	421	494	548	599	621	618	631	623	633
20-29	684	869	1,032	1,171	1,286	1,414	1,534	1,633	1,765	1,781	1,775	1,871	1,985
30-39	602	815	1,030	1,234	1,493	1,795	2,108	2,404	2,570	2,680	2,841	3,021	3,278
40-49	367	463	595	756	909	1,143	1,439	1,741	2,004	2,235	2,424	2,694	3,058
50-59	182	226	302	398	490	655	791	1,028	1,270	1,462	1,606	1,819	1,982
60-64	27	31	41	70	87	135	183	251	339	431	537	617	708
65-69	*	20	20	23	30	43	61	113	173	232	290	378	459
70-79	*	*	*	*	*	11	17	28	48	63	87	126	197
80+	*	*	*	*	*	*	*	*	*	*	*	*	*
0-19	299	352	359	400	421	494	548	599	621	618	631	623	633
20-44	1,491	1,934	2,409	2,826	3,295	3,854	4,432	4,988	5,455	5,695	5,946	6,404	6,958
45-64	371	470	591	803	970	1,288	1,623	2,069	2,493	2,894	3,237	3,618	4,053
65-74	*	21	23	26	35	54	77	139	215	287	361	482	625
75+	*	*	*	*	*	*	*	*	*	*	17	24	35
Male	1,324	1,745	2,136	2,603	3,040	3,657	4,326	5,064	5,728	6,168	6,568	7,143	7,791
Female	843	1,033	1,247	1,453	1,682	2,035	2,359	2,736	3,064	3,336	3,624	4,008	4,513
White	1,831	2,330	2,834	3,366	3,895	4,645	5,408	6,294	7,087	7,607	8,123	8,867	9,710
Black	296	389	470	570	677	862	1,041	1,195	1,339	1,456	1,574	1,717	1,950
Native American	16	22	31	40	46	50	59	69	78	96	107	111	124
Asian	24	37	48	80	104	135	177	242	288	345	388	456	520
†Hispanic													
†Non-Hispanic													
All	2,167	2,778	3,383	4,056	4,722	5,692	6,685	7,800	8,792	9,504	10,192	11,151	12,304
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	645	642	652	714	708	694	663	681	639	627	578	543	
20-29	2,096	2,098	2,057	2,085	2,141	2,172	2,208	2,214	2,184	2,067	2,015	1,883	
30-39	3,471	3,597	3,609	3,743	3,860	3,986	4,130	4,244	4,394	4,487	4,489	4,407	
40-49	3,353	3,656	3,795	4,123	4,406	4,624	4,906	5,226	5,481	5,672	5,851	5,803	
50-59	2,216	2,478	2,595	2,859	3,167	3,458	3,831	4,205	4,581	4,967	5,396	5,542	
60-64	773	809	858	971	1,120	1,254	1,336	1,455	1,509	1,615	1,760	1,902	
65-69	558	687	811	920	1,065	1,145	1,243	1,383	1,470	1,593	1,768	1,929	
70-79	258	325	396	499	561	695	824	945	1,114	1,260	1,455	1,680	
80+	*	*	11	15	21	21	26	37	59	74	96	105	
0-19	645	642	652	714	708	694	663	681	639	627	578	543	
20-44	7,395	7,649	7,687	7,963	8,222	8,492	8,804	9,098	9,300	9,325	9,368	9,050	
45-64	4,514	4,989	5,227	5,818	6,472	7,002	7,607	8,246	8,849	9,483	10,143	10,487	
65-74	780	964	1,148	1,331	1,509	1,682	1,878	2,106	2,322	2,550	2,822	3,145	
75+	39	54	70	103	138	179	215	259	321	377	497	569	
Male	8,438	8,993	9,371	10,116	10,789	11,382	12,003	12,766	13,407	13,955	14,497	14,845	
Female	4,935	5,305	5,413	5,813	6,260	6,667	7,164	7,624	8,024	8,407	8,911	8,949	
White	10,513	11,182	11,469	12,293	13,088	13,820	14,600	15,430	16,098	16,666	17,455	17,657	
Black	2,133	2,313	2,443	2,660	2,870	3,078	3,284	3,553	3,794	4,051	4,223	4,383	
Native American	128	143	151	163	177	183	195	222	233	241	243	244	
Asian	599	660	721	813	914	968	1,088	1,185	1,306	1,404	1,487	1,510	
†Hispanic				1,579	1,739	1,886	2,108	2,343	4,936	2,615	2,795	2,834	
†Non-Hispanic				14,358	15,320	16,178	17,074	18,074	37,982	19,779	20,647	21,015	
All	13,373	14,298	14,784	15,929	17,049	18,049	19,167	20,390	21,431	22,362	23,408	23,794	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Total patients

counts of total deaths & patients used to compute annual deaths per 1,000 patients

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-19	548	606	692	714	804	898	1,012	1,123	1,173	1,162	1,178	1,216	1,239
20-29	762	981	1,077	1,133	1,273	1,397	1,494	1,688	1,686	1,687	1,696	1,738	1,813
30-39	758	886	1,069	1,207	1,325	1,520	1,752	1,955	2,177	2,253	2,349	2,564	2,715
40-49	675	799	876	1,005	1,128	1,267	1,542	1,794	2,043	2,210	2,390	2,597	2,896
50-59	421	574	694	798	901	1,104	1,290	1,591	1,860	1,999	2,184	2,342	2,512
60-64	63	93	114	134	175	241	304	417	543	701	789	903	1,014
65-69	13	23	36	48	64	92	126	164	248	333	445	532	675
70-79	*	*	*	*	18	23	38	54	79	103	134	182	246
80+	*	*	*	*	*	*	*	*	*	*	*	11	12
0-19	548	606	692	714	804	898	1,012	1,123	1,173	1,162	1,178	1,216	1,239
20-44	1,840	2,286	2,591	2,854	3,178	3,560	4,020	4,571	4,904	5,043	5,258	5,646	6,000
45-64	839	1,047	1,239	1,423	1,624	1,969	2,362	2,874	3,405	3,807	4,150	4,498	4,950
65-74	19	27	40	55	75	109	156	204	307	415	552	683	882
75+	*	*	*	*	*	*	12	20	26	29	37	42	51
Male	1,888	2,298	2,706	3,019	3,381	3,860	4,476	5,207	5,763	6,033	6,371	6,828	7,316
Female	1,359	1,670	1,859	2,032	2,307	2,684	3,086	3,585	4,052	4,423	4,804	5,257	5,806
White	2,782	3,388	3,896	4,284	4,815	5,562	6,404	7,426	8,317	8,894	9,571	10,353	11,241
Black	421	532	607	692	785	875	1,026	1,193	1,293	1,314	1,314	1,386	1,495
Native American	20	18	26	26	31	33	42	56	59	65	73	79	87
Asian	24	30	36	49	57	74	90	117	146	183	217	267	299
†Hispanic													
†Non-Hispanic													
All	3,247	3,968	4,565	5,051	5,688	6,544	7,562	8,792	9,815	10,456	11,175	12,085	13,122
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
0-19	1,270	1,351	1,368	1,466	1,535	1,552	1,643	1,744	1,722	1,711	1,693	1,585	
20-29	1,859	1,930	1,821	1,915	2,006	2,049	2,061	2,177	2,167	2,240	2,267	2,138	
30-39	2,904	3,085	3,120	3,234	3,369	3,441	3,579	3,690	3,791	3,910	3,925	3,869	
40-49	3,169	3,395	3,544	3,834	4,038	4,236	4,524	4,873	5,178	5,441	5,762	5,832	
50-59	2,720	3,011	3,123	3,374	3,662	4,135	4,538	5,005	5,390	5,790	6,233	6,498	
60-64	1,102	1,190	1,212	1,283	1,429	1,527	1,697	1,889	2,074	2,237	2,503	2,721	
65-69	824	987	1,079	1,247	1,389	1,569	1,699	1,862	2,003	2,201	2,424	2,709	
70-79	331	407	527	637	780	927	1,107	1,272	1,506	1,718	1,972	2,213	
80+	15	15	17	18	27	36	55	66	83	105	119	151	
0-19	1,270	1,351	1,368	1,466	1,535	1,552	1,643	1,744	1,722	1,711	1,693	1,585	
20-44	6,310	6,683	6,657	7,006	7,302	7,531	7,826	8,252	8,460	8,717	8,905	8,720	
45-64	5,444	5,928	6,163	6,634	7,202	7,857	8,573	9,382	10,140	10,901	11,785	12,338	
65-74	1,103	1,322	1,515	1,755	2,001	2,299	2,576	2,828	3,149	3,489	3,893	4,309	
75+	67	87	108	147	195	233	285	372	443	535	622	764	
Male	7,871	8,489	8,682	9,345	9,930	10,502	11,201	11,995	12,684	13,441	14,231	14,711	
Female	6,323	6,882	7,129	7,663	8,305	8,970	9,702	10,583	11,230	11,912	12,667	13,005	
White	12,150	13,157	13,471	14,499	15,493	16,521	17,674	19,075	20,215	21,422	22,732	23,373	
Black	1,618	1,737	1,831	1,942	2,135	2,295	2,528	2,719	2,874	3,030	3,202	3,342	
Native American	90	104	107	121	126	131	140	144	143	144	156	159	
Asian	336	373	402	446	481	525	561	640	682	757	808	842	
†Hispanic				1,318	1,466	1,599	1,807	1,996	4,328	2,361	2,558	2,609	
†Non-Hispanic				15,716	16,796	17,898	19,125	20,612	43,564	23,022	24,376	25,185	
All	14,194	15,371	15,811	17,008	18,235	19,472	20,903	22,578	23,914	25,353	26,898	27,716	

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year.

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

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

*Values for cells with 10 or fewer patients are suppressed.

Table H.28.4 (supplement)

Annual mortality rates: transplant patients, unadjusted

per 1,000 patient Years at risk, period prevalent patients, 2004, by age as of January 1, gender, race, & primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All	White	Black	N Am	Asian	All
0-19	18.7	19.9	38.2	12	19.2	20	21.2	52.4	11.6	26.3	18.7	19.9	45.3	11.8	19.2
20-29	17	17.9	28.8	11.3	17.1	17.6	18.3	38.3	10.7	17.9	17.3	18.2	33.5	11.1	17.6
30-39	24	24.5	33.1	16.1	24	23.4	24.2	42.8	14.7	23.6	23.7	24.3	39.3	15.4	23.8
40-49	39.1	38.2	43.5	26.7	38.9	37.4	39	55.6	24.1	37.6	38.5	38.5	47.6	25.5	38.4
50-59	60.2	58.4	57.4	43.6	59.4	60.1	56.6	71.3	36.9	59.1	60.2	57.7	63.1	41.2	59.3
60-64	89.2	92.4	72.3	71.9	88.7	86.2	83.9	86.3	60.6	84.9	88.2	88.5	78.5	69.3	87.3
65-69	113.7	112.3	69.7	82.7	110.7	99.8	94.6	79.4	68.3	96.3	108.8	104.3	74.4	77.9	105.3
70-79	150.9	151.3	82.2	118.9	147.8	133.9	129.9	93.6	96.6	130.3	145	141.6	87.7	113.5	141.3
80+	257.6	243.1	112.1	207	248.1	220.9	204	122.1	160	197	248.9	243.1	122.1	195.3	236.2
All	61.2	69.7	60.8	63.4	62.6	54.5	63.8	74.1	46	56.5	58.8	67.1	66.6	57.4	60.3
HYPERTENSION															
0-19	7.2	9.8	21.6	3.5	7.2	7.4	9.9	28.4	3.2	9.2	7.3	9.9	28.4	3.5	8.2
20-29	7.1	9.4	17.5	3.5	8.1	7.1	9.4	22.3	3.2	8.1	7.1	9.4	19.9	3.4	8.1
30-39	10.4	13.5	21.6	5.4	11.9	10.2	13.1	26.6	4.7	11.4	10.4	13.4	23.2	5.1	11.8
40-49	19	25.2	31.2	9.9	21.8	17.2	22.4	37.5	8.3	19	18.4	24.4	32.8	9.1	20.9
50-59	31.2	39.6	43.4	17	35	29.7	36	50.3	14.2	31.9	30.7	38.4	45.2	15.7	33.9
60-64	55.4	69.8	60.9	29.6	59.7	48.5	58.2	69	23.9	50.9	52.9	65.6	64.3	27.3	56.5
65-69	61.6	83.1	63.7	38.3	66.9	59.2	71.5	69.2	30	61.9	60.8	78	66.3	34.5	65
70-79	103.6	120.4	78	60	105.5	83.6	102.9	83.8	45.1	87.5	96.8	112.2	79.9	53.1	98.8
80+	179.8	215.5	115.9	110	180	150.8	172.7	121.2	81.3	157	171.1	188.4	118.5	110	172.1
All	46.2	41.5	42.3	22.6	43.2	41.1	42.3	50.2	18	40.3	44.5	41.8	44.9	20.5	42.2
GLOMERULONEPHRITIS															
0-19	5.9	6.9	17.8	3.8	6.3	5.6	6.4	21.6	3.3	6.1	5.8	6.6	19.9	3.6	6.2
20-29	5.9	6.9	14.8	4	6.1	5.6	6.2	17.4	3.3	5.8	5.7	6.6	16.7	3.6	6
30-39	8.8	9.8	18.6	6.2	9	8.3	8.9	21.3	5	8.4	8.6	9.4	19.8	5.7	8.7
40-49	16.1	18.2	27.6	11.5	16.3	13.6	15.9	30.8	8.8	13.9	15.2	17.3	29.2	10.1	15.4
50-59	29.7	31.3	38.9	20	29.5	23.4	26.2	41.8	15.3	23.3	27.5	29.3	39.9	17.7	27.2
60-64	53.1	51.8	56.1	36.1	52	41.2	41.3	58.4	27.2	40.4	49.2	47.7	57	32.5	48
65-69	61.2	63.7	59.5	48.3	60.8	52.4	51.6	60.8	34.2	50.8	58.3	58.9	59.9	41.4	57.4
70-79	98.2	97.1	75.8	75.8	97.3	71.7	77	74.5	53	71.4	88.4	88.4	75.5	65.4	87.5
80+	174.4	181.3	113.7	144.4	172.3	136.4	133.1	109.5	97.8	131.8	162.5	155.7	113.7	120.9	158.2
All	32.2	24.6	34.7	20	30.2	24.5	20.4	31.3	14.5	23	29.4	22.9	33.1	17.3	27.5
OTHER															
0-19	7.7	9.1	16.9	5.7	8	8.4	9.3	22.4	5.4	8.6	8	9.2	18.9	5.5	8.2
20-29	7.8	8.7	13.6	5.7	7.9	7.8	8.6	17.6	5.2	7.9	7.8	8.7	15.7	5.4	7.9
30-39	11.2	12.5	16.6	8.8	11.3	12.2	12.5	20.6	7.7	12.1	11.7	12.5	18	8.2	11.7
40-49	20.1	21.9	23.7	15.3	20.1	18.5	20.9	28.6	13	18.7	19.3	21.3	26.4	14	19.4
50-59	32.4	35.3	32.4	26.5	32.5	27.4	31.1	37.9	21.8	27.8	30.1	32.9	35.1	23.9	30.3
60-64	54.6	60	44.5	45.7	54.8	46	51.2	51.3	37	46.4	50.6	55.3	48	41.8	50.8
65-69	70.4	69.6	45.6	59.1	70	60.5	61.9	51.1	46.8	60.2	65.8	66.3	47.9	52.9	65.5
70-79	102.1	102.2	56	90.1	101.5	90.9	86.9	61	68.2	89.9	96.9	95.1	57.9	78.7	96.1
80+	180	181.9	82	163.7	179.6	151.1	149.3	86.3	121.1	150.5	167.9	166.7	84.1	150.1	167.5
All	36.1	32.4	29.2	27.2	35.5	32.6	27	34.5	19.8	31.4	34.5	29.4	31.7	23.2	33.6
ALL															
0-19	7.4	8.6	17.2	4.9	7.7	7.5	8.2	22.5	4.7	7.8	7.5	8.4	19.7	4.8	7.7
20-29	7.4	8.4	15.5	4.8	7.6	7.7	8.7	18.4	4.2	7.9	7.5	8.5	17.4	4.5	7.7
30-39	13.7	13.5	20.2	7.1	13.5	14.2	13.5	26.9	6.4	13.8	13.9	13.5	23.2	6.8	13.6
40-49	25.8	24.9	33.9	13.5	25.3	23.7	22.9	37.2	11	23	25	24.1	35.3	12.2	24.4
50-59	40.9	42.2	49.3	26.1	40.7	36	38.2	60	19.9	35.9	39	40.6	53.4	23.2	38.8
60-64	65.2	73.2	65.4	47.2	66	55	64.4	75.8	33.9	56.6	61.3	69.4	70	42.3	62.3
65-69	77.3	88.3	64.5	58.8	78.2	67.1	76.2	73.3	42.5	67.7	73.3	83	68.5	51.7	74
70-79	109.8	123.2	75	88.2	110.6	90.7	104.7	85	60.9	92	102.3	114.7	79.1	76.7	103.1
80+	184	207.6	113.7	155.2	184.1	150.6	158.7	122.1	113	150	172.5	182.7	117.9	141.5	171.8
All	43.4	41.9	46.5	30.2	42.7	37.1	38.2	52.7	20.1	36.7	40.9	40.4	49.2	25.5	40.3

U.S. only; patients of unknown age or gender, or of other or unknown race, are excluded so that rates can be calculated appropriately. Includes all patients who have reached day 91 of ESRD by January 1 of each calendar year.

Table H.29

Mortality rates by primary cause of mortality, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	ESRD							TRANSPLANT							CAPD/CCPD						
	Male	Female	White	Black	N. Am.	Asian	All	Male	Female	White	Black	N. Am.	Asian	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	15.1	14.2	16.2	12	13.5	12.4	14.7	3.8	2.6	3.3	3.4	5	2.2	3.3	19.8	14.8	20.1	11.3	18.7	15.2	17.4
Hyperkalemia	2.1	2.7	3	1.2	2.9	1.8	2.4	0.1	0.1	0.1	0.1	.	0.2	0.1	1.5	2.3	2.4	0.8	3.1	0.8	1.9
Pericarditis	0.2	0.2	0.2	0.3	0.2	0.1	0.2	<0.05	<0.05	<0.05	<0.05	.	.	<0.05	0.3	0.2	0.2	0.3	.	0.3	0.2
Atherosclerotic H.D.	5.1	5.4	6.4	3.3	2.6	4.4	5.2	0.3	0.2	0.3	0.1	.	0.2	0.2	6.1	4.7	7	2	3.1	4.2	5.4
Cardiomyopathy	7.3	5.7	8.2	3.9	4.9	4.2	6.5	0.5	0.2	0.4	0.5	0.4	0.3	0.4	12.3	6.9	12.2	4.7	8.3	4.2	9.7
Cardiac arrhythmia	7.8	7.3	8.5	6.2	5.9	6.1	7.6	0.6	0.5	0.6	0.5	0.8	0.2	0.5	10.4	6.5	9.9	5.7	11.4	5.3	8.5
Cardiac arrest	41.2	44.2	44.6	40	35.8	35.3	42.5	2.8	2.4	2.6	3.1	0.8	1.6	2.6	43.5	36.2	44.3	32.7	18.7	26.7	39.9
Valvular heart dis.	1	1.1	1.2	0.8	0.8	0.6	1	0.1	0.1	0.1	0.1	0.8	.	0.1	1.5	1	1.6	0.7	1	.	1.3
Pulmonary edema	1.5	1.7	1.9	1	1.7	0.8	1.6	0.1	0.1	0.1	0.1	0.4	.	0.1	1.4	1.4	1.7	0.8	.	0.6	1.4
Congestive heart failure	0.4	0.4	0.6	0.2	0.6	0.2	0.4	0.1	0.1	0.1	<0.05	.	.	0.1	0.4	0.3	0.5	0.1	.	0.3	0.3
AIDS	0.6	0.3	0.1	1.2	.	.	0.5	.	.	.	.	.	.	.	0.5	0.2	0.2	0.9	.	.	0.4
Cachexia	1.7	2.4	2.5	1.3	1.2	1.2	2	0.1	0.1	0.1	0.1	.	0.1	0.1	2.9	3.2	3.8	1.1	4.2	2.8	3
Cerebro-vascular dis.	7.3	10.5	8.9	8.4	8.9	8.7	8.7	1.4	1.5	1.4	1.6	1.5	0.7	1.4	7.9	10.4	10.1	7.7	4.2	6.8	9.1
G.I. hemorrhage	1.2	1.4	1.3	1.2	0.7	1.3	1.3	0.1	0.2	0.1	0.3	.	0.4	0.2	1.4	1	1.3	0.9	.	0.6	1.2
Other hemorrhage	1.5	1.9	1.6	1.8	1.3	2	1.7	0.3	0.2	0.2	0.4	.	0.2	0.3	1.2	1	1.1	1.1	1	1.1	1.1
Septicemia	17.7	23.2	20.2	20.5	19.8	14.6	20.2	2.8	3.1	2.7	3.6	4.6	2	2.9	26.2	31.9	31	25.7	28.1	16	28.9
Pulmonary infection	4.6	3.8	5.1	2.6	4.1	4.4	4.2	1.1	1	1.1	0.9	3.1	0.9	1	4.2	3.5	4.7	2	3.1	2.8	3.8
Viral infection	0.3	0.2	0.3	0.2	0.1	0.5	0.3	0.2	0.1	0.1	0.1	0.4	0.2	0.1	0.2	0.1	0.2	0.1	.	0.3	0.2
Other infection	1.2	1.5	1.4	1.1	1.7	1.1	1.3	0.5	0.4	0.5	0.6	0.4	0.3	0.5	2.6	2.9	3	2.2	6.2	2	2.7
Malignant disease	8.1	6.5	8.5	5.7	4.1	4.6	7.4	3.1	2.5	3.1	2.1	4.6	1.7	2.9	6.3	5	7	2.9	5.2	3.9	5.7
Withdrawal from dialysis/uremia	1.1	1.4	1.6	0.6	0.9	0.7	1.2	<0.05	<0.05	<0.05	.	.	.	<0.05	1.1	1.3	1.7	0.2	.	.	1.2
Other cause	54.1	59.7	63.9	46.7	47.5	32.2	56.6	25.1	21.8	24.1	24.1	27	14.8	23.8	50.4	49.2	56.8	37.8	43.7	26.2	49.8
Unknown cause	2.9	3.3	3.1	3.2	3.5	1.7	3.1	0.3	0.2	0.2	0.3	0.4	.	0.3	2.5	2.8	2.8	2.7	3.1	1.4	2.6
All cause	183.9	198.9	209.4	163.5	162.7	138.8	190.6	43.2	37.4	41.3	41.9	50.2	26	40.9	204.6	186.5	223.4	144.3	163.3	121.6	195.9
Years at risk	594,912	476,753	650,381	356,240	14,347	42,751	1,071,665	150,314	101,224	188,304	50,227	2,590	10,045	251,538	35,549	33,296	45,490	18,109	962	3,553	68,846
Patients	715,740	579,128	798,554	419,501	16,879	49,854	1,294,868	155,095	104,229	194,520	51,479	2,666	10,253	259,324	44,333	40,742	57,504	21,325	1,150	4,171	85,075

Table H.29

Mortality rates by primary cause of mortality, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	HEMODIALYSIS							DIALYSIS						
	Male	Female	White	Black	N. Am.	Asian	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	18.8	17.5	21.7	13.5	15.1	15.6	18.2	18.9	17.3	21.5	13.4	15.4	15.5	18.1
Hyperkalemia	3	3.5	4.5	1.5	3.5	2.5	3.2	2.8	3.4	4.2	1.4	3.5	2.3	3.1
Pericarditis	0.2	0.3	0.2	0.3	0.3	0.1	0.3	0.2	0.3	0.2	0.3	0.3	0.1	0.2
Atherosclerotic H.D.	6.8	6.9	9.1	4	3.2	5.9	6.9	6.7	6.7	8.8	3.9	3.2	5.7	6.7
Cardiomyopathy	9.3	7.1	11.3	4.5	5.7	5.5	8.3	9.6	7.1	11.4	4.5	5.9	5.4	8.4
Cardiac arrhythmia	10.2	9.5	12	7.2	6.6	8.3	9.9	10.2	9.2	11.7	7.1	7	7.9	9.8
Cardiac arrest	55.2	57.4	63.8	46.9	45.7	48	56.2	54.2	55.4	61.7	46	43.5	45.6	54.8
Valvular heart dis.	1.2	1.4	1.6	0.9	0.8	0.9	1.3	1.3	1.4	1.6	0.9	0.9	0.8	1.3
Pulmonary edema	2	2.2	2.8	1.2	2.2	1.1	2.1	1.9	2.2	2.7	1.2	2	1	2
Congestive heart failure	0.6	0.5	0.8	0.3	0.7	0.3	0.6	0.6	0.5	0.7	0.3	0.7	0.3	0.5
AIDS	0.9	0.3	0.1	1.4	.	.	0.6	0.8	0.3	0.1	1.4	.	.	0.6
Cachexia	2.2	3	3.4	1.5	1.2	1.4	2.5	2.2	3	3.4	1.5	1.4	1.6	2.6
Cerebro-vascular dis.	9.4	13.2	12.2	9.6	10.9	11.7	11.1	9.3	12.9	12	9.5	10.5	11.1	11
G.I. hemorrhage	1.6	1.8	1.8	1.4	0.9	1.8	1.7	1.5	1.7	1.8	1.3	0.9	1.6	1.6
Other hemorrhage	2	2.4	2.3	2.1	1.7	2.7	2.2	2	2.3	2.2	2	1.6	2.5	2.1
Septicemia	22.5	28.4	27	23.2	22.5	18.9	25.2	22.8	28.7	27.3	23.3	23.1	18.5	25.5
Pulmonary infection	5.9	4.7	7	3	4.5	5.8	5.4	5.8	4.6	6.8	2.9	4.3	5.4	5.2
Viral infection	0.4	0.3	0.4	0.3	0.1	0.6	0.3	0.4	0.3	0.4	0.2	0.1	0.6	0.3
Other infection	1.3	1.7	1.7	1.2	1.6	1.2	1.5	1.4	1.8	1.8	1.2	2	1.3	1.6
Malignant disease	10	7.8	11.1	6.6	3.9	5.7	9	9.7	7.6	10.7	6.3	4	5.5	8.7
Withdrawal from dialysis/uremia	1.4	1.8	2.3	0.7	1.2	1	1.6	1.4	1.7	2.2	0.6	1.1	0.9	1.6
Other cause	65.1	72	82.8	51.2	52.9	38.8	68.2	64	69.9	80.2	50.4	52.1	37.5	66.7
Unknown cause	3.9	4.3	4.5	3.7	4.2	2.3	4.1	3.8	4.2	4.3	3.7	4.2	2.2	4
All cause	234	248.1	284.1	186	189.5	179.9	240.4	231.5	242.5	277.8	183.5	187.5	173.4	236.50
Years at risk	407,515	341,052	414,645	287,255	10,779	29,066	748,568	444,599	375,529	462,077	306,013	11,757	32,706	820,128
Patients	514,195	432,503	543,767	345,866	13,035	35,316	946,698	560,645	474,899	604,034	368,022	14,213	39,601	1,035,544

"All" category includes patients of other & unknown races.
U.S. only; patients of unknown age or gender are excluded.
"." Zero values in this cell.

Table H.29.1 (supplement)

Mortality rates by primary cause of mortality, diabetic patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	ESRD							DIALYSIS						
	Male	Female	White	Black	N. Am.	Asian	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	21.2	20.2	22.7	17	16	21	20.7	24.5	22.3	26.9	17.9	17	22.3	23.4
Hyperkalemia	2.5	3.3	3.6	1.5	3.1	2.8	2.9	3.1	3.7	4.5	1.6	3.6	3.1	3.4
Pericarditis	0.2	0.2	0.2	0.3		0.1	0.2	0.2	0.3	0.2	0.3		0.1	0.2
Atherosclerotic H.D.	6.9	7.3	8.4	4.7	3	7.9	7.1	8.4	8.3	10.4	5.1	3.5	8.7	8.3
Cardiomyopathy	8.5	6.9	9.5	4.7	6.4	5.2	7.7	10.3	7.8	11.8	5.1	7.2	5.6	9
Cardiac arrhythmia	9.6	9.4	10.5	7.8	6.5	9.8	9.5	11.7	10.6	13	8.5	7.2	10.8	11.1
Cardiac arrest	53.6	57	57.9	51	40.9	56.5	55.2	64.9	64.6	71.8	55.1	46.5	61.7	64.8
Valvular heart dis.	0.8	1	1	0.7	0.6	0.8	0.9	1	1.1	1.3	0.8	0.6	0.8	1
Pulmonary edema	1.9	2	2.3	1.3	2.5	1.1	2	2.3	2.3	2.9	1.4	2.7	1.2	2.3
Congestive heart failure	0.5	0.6	0.7	0.3	0.5	0.3	0.5	0.6	0.6	0.8	0.3	0.6	0.3	0.6
AIDS	0.2	0.1	<0.05	0.3			0.1	0.2	0.1	0.1	0.4			0.2
Cachexia	1.8	2.4	2.4	1.5	1.3	1.6	2.1	2.1	2.8	3	1.7	1.4	1.8	2.5
Cerebro-vascular dis.	10.4	13.6	11.9	11.6	11.4	14.1	11.9	12.2	15.2	14.4	12.4	12.8	15.4	13.7
G.I. hemorrhage	1.2	1.5	1.4	1.2	0.6	1.7	1.4	1.5	1.7	1.7	1.3	0.7	1.7	1.6
Other hemorrhage	1.4	1.6	1.4	1.6	1.6	2.2	1.5	1.7	1.8	1.7	1.8	1.8	2.5	1.7
Septicemia	24.3	31.6	27.4	29.4	24.2	20.6	27.8	29	35.5	33.4	31.6	26.9	22.1	32.3
Pulmonary infection	5.1	4	5.2	3.2	4.2	6	4.6	5.9	4.3	6.1	3.4	3.8	6.4	5.1
Viral infection	0.3	0.2	0.3	0.2	0.2	0.6	0.3	0.3	0.3	0.3	0.3	0.1	0.6	0.3
Other infection	1.4	2	1.8	1.4	2.2	1.3	1.7	1.6	2.1	2.2	1.4	2.4	1.3	1.9
Malignant disease	6	4.9	5.7	5.2	3.3	5.4	5.5	6.8	5.3	6.5	5.6	3	5.8	6
Withdrawal from dialysis/urem	1.3	1.5	1.7	0.8	0.9	1.3	1.4	1.6	1.7	2.1	0.9	1.1	1.5	1.6
Other cause	60.8	67.5	70.6	55.5	51.3	39.5	64	66.7	72.4	80.2	56.7	53.7	40.5	69.6
Unknown cause	3.7	4.3	4.1	4	4.1	2.4	4	4.5	4.9	5	4.3	4.7	2.6	4.7
All cause	223.6	243	250.8	205.5	185	202.1	232.9	261	269.7	300.3	217.8	201.1	216.9	265.4
Years at risk	211,103	196,221	248,957	129,210	9,528	15,602	407,324	171,359	171,457	197,866	118,489	8,373	14,145	342,815
Patients	263,388	246,704	316,407	157,848	11,419	19,182	510,092	222,049	220,976	263,270	146,712	10,222	17,672	443,025

Table H.29.1 (supplement)

Mortality rates by primary cause of mortality, diabetic patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	HEMODIALYSIS							CAPD/CCPD						
	Male	Female	White	Black	N. Am.	Asian	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	24.2	21.9	26.6	17.9	16.1	21.7	23.1	27.7	27.3	30.5	18	29.2	29.7	27.5
Hyperkalemia	3.2	3.7	4.6	1.6	3.5	3.4	3.5	2.2	3.8	3.6	1.5	5.5	.	3
Pericarditis	0.2	0.2	0.2	0.3	.	0.2	0.2	0.2	0.4	0.4	0.2	.	.	0.3
Atherosclerotic H.D.	8.4	8.2	10.4	5.2	3.3	8.9	8.3	8.7	8.6	10.4	4.4	5.5	7	8.6
Cardiomyopathy	10.1	7.6	11.7	5	6.7	5.5	8.9	12.1	10.1	12.5	7.6	14.6	6.1	11.2
Cardiac arrhythmia	11.5	10.6	13	8.5	6.5	10.6	11.1	14.3	10.2	13.8	8	16.4	13.1	12.5
Cardiac arrest	65.2	65.2	72.5	55.3	48.1	63.2	65.2	62.2	56.5	64.4	50.8	23.7	46.3	59.6
Valvular heart dis.	1	1.1	1.3	0.8	0.5	0.9	1.1	0.9	0.9	1.1	0.4	1.8	.	0.9
Pulmonary edema	2.3	2.4	2.9	1.4	2.9	1.2	2.3	2	2	2.4	0.9	.	1.7	2
Congestive heart failure	0.7	0.6	0.9	0.3	0.6	0.3	0.6	0.5	0.3	0.5	0.2	.	.	0.4
AIDS	0.3	0.1	0.1	0.4	.	.	0.2	0.2	.	.	0.2	.	.	0.1
Cachexia	2.1	2.6	2.9	1.6	1.2	1.4	2.4	3	4.3	4	1.9	5.5	6.1	3.6
Cerebro-vascular dis.	12.3	15.1	14.4	12.4	13	15.6	13.7	11.4	16.4	14.5	12.5	7.3	13.1	13.7
G.I. hemorrhage	1.5	1.7	1.8	1.3	0.8	1.8	1.6	1.3	1.4	1.5	1.1	.	0.9	1.4
Other hemorrhage	1.7	1.9	1.7	1.8	1.8	2.5	1.8	1.1	0.9	1	0.8	1.8	1.7	1
Septicemia	28.4	34.8	32.6	31.2	26	22.2	31.6	35.9	46.3	41.5	41.5	36.5	21.9	40.7
Pulmonary infection	5.9	4.4	6.2	3.4	4	6.6	5.2	5.3	3.2	4.9	2.8	1.8	4.4	4.3
Viral infection	0.3	0.3	0.3	0.3	0.1	0.6	0.3	0.2	0.2	0.2	0.2	.	0.9	0.2
Other infection	1.5	2	2	1.4	2	1.2	1.8	2.6	4.1	3.4	2.8	7.3	3.5	3.3
Malignant disease	7	5.5	6.8	5.7	3.1	5.9	6.2	4.6	3	4.1	3.2	1.8	4.4	3.8
Withdrawal from dialysis/uren	1.6	1.7	2.2	0.9	1.2	1.6	1.7	1.4	1.4	1.9	0.2	.	.	1.4
Other cause	67.2	73	81.2	57	54.6	41.1	70.1	61.9	64.4	70.2	50.4	42	31.5	63
Unknown cause	4.5	4.9	5.1	4.4	4.6	2.5	4.7	3.6	4.5	4.2	3.8	3.6	3.5	4
All cause	260.9	269.7	301.4	218	200.6	218.9	265.3	263.3	270.1	290.7	213.4	204.4	195.9	266.5
Years at risk	158,055	160,017	180,602	113,040	7,818	12,975	318,072	12,900	11,035	16,670	5,277	548	1,144	23,935
Patients	204,573	205,897	240,131	139,866	9,527	16,195	410,470	16,853	14,444	22,206	6,592	680	1,435	31,297

Table H.29.1 (supplement)

Mortality rates by primary cause of mortality, diabetic patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	TRANSPLANT						
	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	7.2	5.5	6.4	6.5	8.7	8.2	6.5
Hyperkalemia	0.1	0.2	0.2	.	.	.	0.1
Pericarditis	.	<0.05	<0.05	.	.	.	<0.05
Atherosclerotic H.D.	0.4	0.6	0.5	0.4	.	.	0.5
Cardiomyopathy	0.8	0.3	0.6	0.6	0.9	1.4	0.6
Cardiac arrhythmia	0.7	0.8	0.7	0.7	1.7	.	0.7
Cardiac arrest	4.8	4	4.3	5.6	0.9	5.5	4.5
Valvular heart dis.	0.1	0.1	0.1	0.1	0.9	.	0.1
Pulmonary edema	0.2	0.1	0.2	0.2	0.9	.	0.2
Congestive heart failure	0.1	0.1	0.1	0.2	.	.	0.1
AIDS	.	.	.	.	.	.	.
Cachexia	0.1	0.1	0.1	0.1	.	.	0.1
Cerebro-vascular dis.	2.5	2.6	2.5	3	1.7	1.4	2.5
G.I. hemorrhage	0.2	0.4	0.2	0.4	.	1.4	0.2
Other hemorrhage	0.3	0.2	0.3	0.5	.	.	0.3
Septicemia	4.1	4.6	4.1	4.9	5.2	6.2	4.3
Pulmonary infection	1.6	1.9	1.7	1.4	6.9	2.7	1.7
Viral infection	0.2	0.1	0.1	0.1	0.9	.	0.1
Other infection	0.5	0.6	0.5	0.7	0.9	0.7	0.6
Malignant disease	2.6	2.1	2.5	1.8	5.2	1.4	2.4
Withdrawal from dialysis/uren	0.1	0.1	0.1	.	.	.	0.1
Other cause	35.3	33.5	33.2	42.3	33.8	29.5	34.6
Unknown cause	0.4	0.4	0.5	0.4	.	.	0.4
All cause	62.2	58.3	58.8	69.6	68.4	58.3	60.7
Years at risk	39,744	24,764	51,091	10,722	1,154	1,457	64,509
Patients	41,339	25,728	53,137	11,136	1,197	1,510	67,067

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

"All" category includes patients of other & unknown races.

U.S. only; patients of unknown age or gender are excluded so that rates can be calculated appropriately.

"." Zero values in this cell.

Table H.29.2 (supplement)

Mortality rates by primary cause of mortality, non-diabetic patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	ESRD							DIALYSIS						
	Male	Female	White	Black	N. Am.	Asian	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	11.7	10	12.3	9.1	8.7	7.5	11	15.4	13.1	17.4	10.5	11.5	10.4	14.4
Hyperkalemia	1.9	2.3	2.7	1.1	2.3	1.2	2.1	2.7	3.1	4.1	1.3	3.3	1.7	2.8
Pericarditis	0.2	0.2	0.1	0.3	0.6	0.1	0.2	0.2	0.3	0.2	0.3	0.9	0.1	0.3
Atherosclerotic H.D.	4.2	4	5.1	2.5	1.9	2.4	4.1	5.7	5.4	7.6	3.1	2.7	3.3	5.6
Cardiomyopathy	6.6	4.8	7.5	3.5	1.9	3.6	5.9	9.1	6.5	11.1	4.1	2.7	5.2	8
Cardiac arrhythmia	6.8	5.9	7.3	5.3	4.6	4	6.4	9.3	8	10.8	6.3	6.5	5.8	8.8
Cardiac arrest	34.6	35.4	36.6	33.7	25.6	23.1	34.9	47.5	47.7	54.2	40.2	36.1	33.2	47.6
Valvular heart dis.	1.1	1.2	1.3	0.8	1.2	0.6	1.1	1.4	1.6	1.9	1	1.5	0.8	1.5
Pulmonary edema	1.3	1.5	1.7	0.9	0.2	0.6	1.4	1.7	2	2.5	1	0.3	0.9	1.9
Congestive heart failure	0.4	0.3	0.5	0.2	0.6	0.2	0.4	0.5	0.4	0.7	0.2	0.9	0.3	0.5
AIDS	0.9	0.4	0.1	1.7	.	.	0.7	1.2	0.5	0.2	2.1	.	.	0.9
Cachexia	1.6	2.4	2.5	1.1	1	1	1.9	2.3	3.2	3.7	1.4	1.5	1.5	2.7
Cerebro-vascular dis.	5.6	8.4	7.1	6.6	3.7	5.6	6.8	7.5	11.1	10.1	7.7	4.7	7.9	9
G.I. hemorrhage	1.2	1.3	1.2	1.2	0.8	1.1	1.2	1.6	1.7	1.8	1.4	1.2	1.6	1.6
Other hemorrhage	1.6	2.1	1.8	1.9	0.8	1.8	1.8	2.2	2.8	2.6	2.2	1.2	2.5	2.4
Septicemia	14.2	17.5	15.9	15.5	10.8	11.2	15.6	18.9	22.9	22.8	18.1	13.9	15.7	20.6
Pulmonary infection	4.3	3.7	5.1	2.3	4	3.4	4.1	5.7	4.8	7.3	2.6	5.6	4.7	5.3
Viral infection	0.3	0.2	0.3	0.2	.	0.4	0.3	0.4	0.3	0.4	0.2	.	0.5	0.3
Other infection	1.1	1.2	1.2	1	0.6	0.9	1.1	1.3	1.6	1.6	1.1	0.9	1.2	1.4
Malignant disease	9.2	7.6	10.3	6	5.8	4.1	8.6	11.6	9.5	13.9	6.8	6.5	5.2	10.7
Withdrawal from dialysis/urem	0.9	1.3	1.5	0.4	0.8	0.3	1.1	1.3	1.8	2.3	0.5	1.2	0.4	1.5
Other cause	50.2	54	59.7	41.3	39.1	27.9	51.8	61.8	67.4	79.7	46	46.8	35.2	64.2
Unknown cause	2.5	2.7	2.5	2.7	2.3	1.3	2.6	3.4	3.6	3.8	3.2	3	1.9	3.5
All cause	162.5	168.4	184.5	139.5	117.5	102.4	165	212.7	219.2	260.7	161.5	152.8	140.1	215.5
Years at risk	381,070	278,512	397,645	226,293	4,808	27,068	659,582	272,682	203,606	263,624	187,214	3,378	18,545	476,288
Patients	449,015	329,892	477,659	260,631	5,443	30,579	778,907	337,602	253,045	339,677	220,749	3,981	21,903	590,647

Table H.29.2 (supplement)

Mortality rates by primary cause of mortality, non-diabetic patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	HEMODIALYSIS							CAPD/CCPD						
	Male	Female	White	Black	N. Am.	Asian	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	15.4	13.6	17.9	10.7	12.5	10.8	14.7	15.3	8.6	14.1	8.4	4.8	8.3	12
Hyperkalemia	2.8	3.3	4.3	1.4	3.7	1.7	3	1.1	1.6	1.8	0.5	.	1.2	1.3
Pericarditis	0.2	0.3	0.2	0.3	1	0.1	0.3	0.4	<0.05	0.1	0.4	.	0.4	0.2
Atherosclerotic H.D.	5.8	5.8	8	3.2	3	3.4	5.8	4.6	2.7	5	1.1	.	2.9	3.7
Cardiomyopathy	8.8	6.7	11	4.2	3	5.5	7.9	12.4	5.3	12	3.5	.	3.3	8.9
Cardiac arrhythmia	9.4	8.4	11.2	6.4	6.8	6.4	9	8.2	4.7	7.6	4.8	4.8	1.7	6.4
Cardiac arrest	49	50.5	57	41.4	39.6	35.7	49.6	32.8	26.1	32.8	25.2	12.1	17	29.5
Valvular heart dis.	1.4	1.6	1.9	1	1.7	0.9	1.5	1.9	1.1	1.9	0.9	.	.	1.5
Pulmonary edema	1.8	2.1	2.7	1	0.3	1.1	1.9	1.1	1	1.3	0.7	.	.	1
Congestive heart failure	0.5	0.5	0.7	0.2	1	0.2	0.5	0.3	0.3	0.5	.	.	0.4	0.3
AIDS	1.2	0.6	0.2	2.1	.	.	1	0.8	0.3	0.2	1.2	.	.	0.5
Cachexia	2.2	3.3	3.7	1.4	1.4	1.5	2.7	2.8	2.7	3.8	0.8	2.4	1.2	2.7
Cerebro-vascular dis.	7.6	11.6	10.5	7.8	5.4	8.5	9.3	5.9	7.5	7.5	5.8	.	3.7	6.7
G.I. hemorrhage	1.6	1.8	1.9	1.4	1.4	1.7	1.7	1.4	0.7	1.3	0.9	.	0.4	1.1
Other hemorrhage	2.3	3	2.8	2.3	1.4	2.8	2.6	1.3	1.1	1.2	1.2	.	0.8	1.2
Septicemia	18.8	22.7	22.6	18	13.5	16.2	20.4	20.7	24.7	24.9	19.3	16.9	13.3	22.7
Pulmonary infection	5.9	4.9	7.6	2.7	5.8	5.2	5.5	3.6	3.6	4.6	1.6	4.8	2.1	3.6
Viral infection	0.4	0.3	0.4	0.3	.	0.6	0.4	0.2	0.1	0.2	0.1	.	.	0.1
Other infection	1.2	1.5	1.5	1.1	0.3	1.2	1.3	2.6	2.3	2.7	1.9	4.8	1.2	2.4
Malignant disease	11.9	9.9	14.5	7.1	6.1	5.5	11.1	7.3	5.8	8.6	2.7	9.7	3.3	6.6
Withdrawal from dialysis/urem	1.3	1.8	2.4	0.5	1.4	0.5	1.6	0.9	1.3	1.6	0.2	.	.	1.1
Other cause	63.4	70.6	83.5	47	47	36.9	66.4	43.6	41.4	48.7	32.5	45.9	23.7	42.5
Unknown cause	3.5	3.8	4	3.3	3	2.1	3.6	1.9	2	1.9	2.2	2.4	0.4	1.9
All cause	216.7	228.6	270.5	165	159.4	148.4	221.7	171	144.8	184.3	115.7	108.8	85.5	158
Years at risk	248,969	180,627	233,534	173,935	2,955	16,076	429,596	22,614	22,223	28,776	12,811	414	2,409	44,837
Patients	308,739	225,836	302,683	205,491	3,498	19,100	534,575	27,421	26,225	35,220	14,697	470	2,733	53,646

Table H.29.2 (supplement)

Mortality rates by primary cause of mortality, non-diabetic patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	TRANSPLANT						
	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	2.6	1.7	2.2	2.6	2.1	1.2	2.2
Hyperkalemia	<0.05	0.1	0.1	0.1	.	0.2	0.1
Pericarditis	<0.05	<0.05	<0.05	0.1	.	.	<0.05
Atherosclerotic H.D.	0.2	0.1	0.2	0.1	.	0.2	0.2
Cardiomyopathy	0.4	0.2	0.3	0.4	.	0.1	0.3
Cardiac arrhythmia	0.5	0.3	0.5	0.4	.	0.2	0.5
Cardiac arrest	2.1	1.9	1.9	2.5	0.7	0.9	2
Valvular heart dis.	0.1	0.1	0.1	0.1	0.7	.	0.1
Pulmonary edema	0.1	0.1	0.1	0.1	.	.	0.1
Congestive heart failure	0.1	0.1	0.1	.	.	.	0.1
AIDS	.	.	.	.	.	.	.
Cachexia	0.1	0.1	0.1	0.1	.	0.1	0.1
Cerebro-vascular dis.	1	1.1	1	1.2	1.4	0.6	1
G.I. hemorrhage	0.1	0.2	0.1	0.2	.	0.2	0.2
Other hemorrhage	0.3	0.2	0.2	0.4	.	0.2	0.3
Septicemia	2.3	2.6	2.3	3.2	3.5	1.3	2.4
Pulmonary infection	0.8	0.7	0.8	0.7	.	0.6	0.8
Viral infection	0.2	0.1	0.2	0.1	.	0.2	0.2
Other infection	0.5	0.3	0.4	0.5	.	0.2	0.4
Malignant disease	3.4	2.7	3.4	2.2	4.2	1.8	3.1
Withdrawal from dialysis/urem	.	<0.05	<0.05	.	.	.	<0.05
Other cause	21	17.7	20.4	18.9	21	12.1	19.7
Unknown cause	0.2	0.2	0.2	0.3	0.7	.	0.2
All cause	36.1	30.5	34.6	34.2	34.3	20.3	33.8
Years at risk	108,388	74,907	134,021	39,079	1,430	8,523	183,294
Patients	111,413	76,847	137,982	39,882	1,462	8,676	188,260

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

"All" category includes patients of other & unknown races.

U.S. only; patients of unknown age or gender are excluded so that rates can be calculated appropriately.

"." Zero values in this cell.

Table H.a.1 (supplement)

Mortality rates by specific cause of mortality: ESRD patients, unadjusted*rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined*

	0-19	20-44	45-64	65+	All
Myocardial Infarction, Acute	0.6	3.4	11.7	24	14.7
Pericarditis, Incl. Cardiac Tamponade	.	0.2	0.2	0.2	0.2
Atherosclerotic Heart Disease	0.1	0.6	2.8	10.3	5.2
Cardiomyopathy	0.4	1.1	3.4	12.8	6.5
Cardiac Arrhythmia	0.5	2.1	5.4	12.9	7.6
Cardiac Arrest, Cause Unknown	2.9	13.1	30.2	71.7	42.5
Valvular Heart Disease	.	0.3	0.7	1.7	1
Pulmonary Edema Due To Exogenous Fluid	0.2	0.5	0.9	2.9	1.6
Congestive Heart Failure	.	<0.05	0.2	0.8	0.4
Pulmonary Embolus	0.2	0.4	0.5	0.9	0.6
Cerebro-Vascular Accident Including Intracranial Hemorrhage	0.6	2.2	5.5	12.2	7.4
Ischemic Brain Damage/Anoxic Encephalopathy	0.2	0.7	1.2	1.9	1.3
Hemorrhage From Transplant Site	.	<0.05	<0.05	<0.05	<0.05
Hemorrhage From Vascular Access	0.1	0.2	0.3	0.6	0.4
Hemorrhage From Dialysis Circuit	.	.	<0.05	<0.05	<0.05
Hemorrhage From Ruptured Vascular Aneurysm	.	0.1	0.3	0.7	0.4
Hemorrhage From Surgery (Not 38,39 Or 40)	.	0.1	0.1	0.2	0.1
Other Hemorrhage (Not Codes 38-42,72)	0.5	0.3	0.6	1	0.7
Mesenteric Infarction/Ischemic Bowel	0.3	0.3	0.8	2.3	1.3
Septicemia, Due To Vascular Access	0.3	0.9	2.1	4.5	2.8
Peritoneal access infectious complication, bacterial	.	.	<0.05	<0.05	<0.05
Fungal Peritonitis	0.1	<0.05	<0.05	0.1	0.1
Peritonitis (complication of peritoneal dialysis)	.	<0.05	<0.05	<0.05	<0.05
Central nervous system infection (brain abscess, meningitis, encephalitis, etc)	.	<0.05	<0.05	<0.05	<0.05
Septicemia, Due To Peritonitis	0.8	0.6	1	1.6	1.1
Septicemia, Due To Peripheral Vascular Disease and Gangrene	0.2	0.8	3.5	7.4	4.4
Septicemia, Other	2	4.1	9.3	18.7	11.8
Pulmonary Infection (Bacterial)	0.1	0.6	1.4	5.6	2.9
Pulmonary Infection (Fungal)	.	0.1	0.1	0.1	0.1
Pulmonary Infection (Other)	0.4	0.3	0.4	1.5	0.8
Pulmonary infection (pneumonia, influenza)	0.1	0.1	0.3	0.8	0.4
Tuberculosis	.	<0.05	<0.05	<0.05	<0.05
Viral Infection, Cmv	.	<0.05	<0.05	<0.05	<0.05
Viral Infection, Other (Not 64 Or 65)	.	0.1	0.1	0.2	0.1
Aids	0.2	1.1	0.5	0.1	0.5
Infection, Other	0.3	0.4	0.8	1.4	1

Table H.a.1 (supplement)

Mortality rates by specific cause of mortality: ESRD patients, unadjusted*rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined*

	0-19	20-44	45-64	65+	All
Cardiac infection (endocarditis)	.	0.1	0.1	0.1	0.1
Abdominal infection (peritonitis (not comp of PD), perforated bowel, diverticular disease, gallbladder)	.	0.1	0.1	0.2	0.1
Genito-urinary infection (urinary tract infection, pyelonephritis, renal abscess)	.	.	<0.05	<0.05	<0.05
Hepatitis B	.	<0.05	0.1	<0.05	<0.05
Hepatitis C	.	<0.05	<0.05	<0.05	<0.05
Other Viral Hepatitis	.	0.1	0.1	<0.05	0.1
Liver-Drug Toxicity	.	<0.05	<0.05	<0.05	<0.05
Cirrhosis	.	0.2	0.7	0.7	0.6
Polycystic Liver Disease	.	<0.05	<0.05	<0.05	<0.05
Liver Failure, Cause Unknown Other	0.3	0.3	0.7	0.6	0.6
Gastro-Intestinal Hemorrhage	0.2	0.3	0.8	2.3	1.3
Pancreatitis	0.2	0.1	0.1	0.2	0.2
Perforation Of Peptic Ulcer	.	<0.05	0.1	0.1	0.1
Perforation Of Bowel (Not 75)	.	0.2	0.4	0.9	0.5
Hyperkalemia	0.3	0.9	1.4	4.2	2.4
Hypokalemia	.	.	.	<0.05	<0.05
Hypnatremia	.	.	<0.05	.	<0.05
Hyponatremia	.	.	.	.	.
Diabetic Coma, Hyperglycemia and Hypoglycemia	.	0.6	0.5	0.4	0.5
Acidosis	.	.	.	<0.05	<0.05
Adrenal insufficiency	.	.	.	.	.
Hypothyroidism	.	.	<0.05	.	<0.05
Hyperthyroidism	.	.	.	<0.05	<0.05
Bone Marrow Depression	0.1	<0.05	0.1	0.1	0.1
Cachexia	.	0.3	0.8	4.2	2
Malignant Disease, Patient Ever On Immunosuppressive Therapy	0.5	0.4	1.9	4	2.4
Malignant Disease (Not 82)	0.3	0.5	3.1	9.3	4.9
Dementia, Incl. Dialysis Dementia and Alzheimers	.	<0.05	0.2	1.8	0.8
Seizures	0.5	0.3	0.3	0.2	0.3
Chronic Obstructive Lung Disease (Copd)	.	<0.05	0.5	1.9	0.9
Complications Of Surgery	0.1	0.3	0.5	1.2	0.7
Air Embolism	.	<0.05	<0.05	0.1	<0.05
Accident Related To Treatment	.	<0.05	<0.05	<0.05	<0.05
Accident Unrelated To Treatment	0.4	0.4	0.6	1	0.7
Suicide	0.1	0.1	0.1	0.2	0.1
Drug Overdose (Street Drugs)	.	0.2	0.1	<0.05	0.1
Drug Overdose (Not 92 Or 93)	.	<0.05	0.1	<0.05	<0.05
Withdrawal from dialysis/uremia	0.3	0.1	0.5	2.5	1.2
Other Identified Cause Of Death - Please Specify	7.8	15.7	33.7	81.8	48.4
Unknown	0.2	1.1	2.1	5.2	3.1
All Cause	21.8	57.3	134.4	322.6	190.6
Years at risk	11,901	209,578	437,117	413,070	1,071,665
Patients	13,214	230,035	508,523	543,096	1,294,868

Table H.a.2 (supplement)

Mortality rates by specific cause of mortality: dialysis patients, unadjusted*rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined*

	0-19	20-44	45-64	65+	All
Myocardial Infarction, Acute	1.3	4.7	14.6	25.9	18.1
Pericarditis, Incl. Cardiac Tamponade	.	0.3	0.3	0.2	0.2
Atherosclerotic Heart Disease	0.2	0.9	3.7	11.3	6.7
Cardiomyopathy	0.8	1.8	4.5	14.1	8.4
Cardiac Arrhythmia	1.1	3.3	7.2	14.2	9.8
Cardiac Arrest, Cause Unknown	5.6	20.9	40.7	78.9	54.8
Valvular Heart Disease	.	0.5	1	1.9	1.3
Pulmonary Edema Due To Exogenous Fluid	0.2	0.8	1.3	3.2	2
Congestive Heart Failure	.	0.1	0.3	0.9	0.5
Pulmonary Embolus	0.4	0.6	0.6	1	0.8
Cerebro-Vascular Accident Including Intracranial Hemorrhage	1.1	3.4	7.1	13.2	9.3
Ischemic Brain Damage/Anoxic Encephalopathy	0.4	1.1	1.6	2.1	1.7
Hemorrhage From Transplant Site	.	<0.05	<0.05	<0.05	<0.05
Hemorrhage From Vascular Access	0.2	0.3	0.4	0.7	0.5
Hemorrhage From Dialysis Circuit	.	.	<0.05	<0.05	<0.05
Hemorrhage From Ruptured Vascular Aneurysm	.	0.2	0.3	0.7	0.5
Hemorrhage From Surgery (Not 38,39 Or 40)	.	0.1	0.2	0.2	0.2
Other Hemorrhage (Not Codes 38-42,72)	1.1	0.5	0.8	1.1	0.9
Mesenteric Infarction/Ischemic Bowel	0.6	0.4	1.1	2.6	1.6
Septicemia, Due To Vascular Access	0.6	1.5	2.9	5	3.6
Peritoneal access infectious complication, bacterial	.	.	<0.05	<0.05	<0.05
Fungal Peritonitis	0.2	0.1	0.1	0.1	0.1
Peritonitis (complication of peritoneal dialysis)	.	<0.05	<0.05	<0.05	<0.05
Central nervous system infection (brain abscess, meningitis, encephalitis, etc)	.	<0.05	<0.05	<0.05	<0.05
Septicemia, Due To Peritonitis	1.7	1	1.3	1.7	1.4
Septicemia, Due To Peripheral Vascular Disease and Gangrene	0.4	1.3	4.7	8.1	5.7
Septicemia, Other	3.4	6.2	11.9	20.2	14.7
Pulmonary Infection (Bacterial)	0.2	0.8	1.8	6.1	3.6
Pulmonary Infection (Fungal)	.	0.1	0.1	0.1	0.1
Pulmonary Infection (Other)	0.8	0.4	0.5	1.6	1
Pulmonary infection (pneumonia, influenza)	0.2	0.1	0.3	0.9	0.6
Tuberculosis	.	<0.05	<0.05	<0.05	<0.05
Viral Infection, Cmv	.	<0.05	<0.05	<0.05	<0.05
Viral Infection, Other (Not 64 Or 65)	.	0.1	0.1	0.2	0.1
Aids	0.4	1.9	0.7	0.1	0.6
Infection, Other	0.4	0.5	1	1.5	1.1

Table H.a.2 (supplement)

Mortality rates by specific cause of mortality: dialysis patients, unadjusted*rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined*

	0-19	20-44	45-64	65+	All
Cardiac infection (endocarditis)	.	0.1	0.1	0.1	0.1
Abdominal infection (peritonitis (not comp of PD), perforated bowel, diverticular disease, gallbladder)	.	0.1	0.1	0.2	0.1
Genito-urinary infection (urinary tract infection, pyelonephritis, renal abscess)	.	.	<0.05	<0.05	<0.05
Hepatitis B	.	0.1	0.1	<0.05	<0.05
Hepatitis C	.	<0.05	<0.05	<0.05	<0.05
Other Viral Hepatitis	.	0.1	0.2	0.1	0.1
Liver-Drug Toxicity	.	<0.05	<0.05	<0.05	<0.05
Cirrhosis	.	0.3	0.9	0.7	0.7
Polycystic Liver Disease	.	<0.05	<0.05	<0.05	<0.05
Liver Failure, Cause Unknown Other	0.6	0.4	0.9	0.6	0.7
Gastro-Intestinal Hemorrhage	0.4	0.5	1	2.5	1.6
Pancreatitis	0.2	0.2	0.2	0.2	0.2
Perforation Of Peptic Ulcer	.	<0.05	0.1	0.1	0.1
Perforation Of Bowel (Not 75)	.	0.3	0.5	0.9	0.7
Hyperkalemia	0.8	1.5	1.9	4.7	3.1
Hypokalemia	.	.	.	<0.05	<0.05
Hypnatremia	.	.	<0.05	.	<0.05
Hyponatremia	.	.	.	.	.
Diabetic Coma, Hyperglycemia and Hypoglycemia	.	0.8	0.6	0.4	0.5
Acidosis	.	.	.	<0.05	<0.05
Adrenal insufficiency	.	.	.	.	.
Hypothyroidism	.	.	<0.05	.	<0.05
Hyperthyroidism	.	.	.	<0.05	<0.05
Bone Marrow Depression	0.2	<0.05	0.1	0.2	0.1
Cachexia	.	0.4	1.1	4.6	2.6
Malignant Disease, Patient Ever On Immunosuppressive Therapy	0.6	0.4	2	4	2.6
Malignant Disease (Not 82)	0.6	0.6	3.8	10	6.1
Dementia, Incl. Dialysis Dementia and Alzheimers	.	<0.05	0.2	2	1
Seizures	1.1	0.4	0.3	0.3	0.3
Chronic Obstructive Lung Disease (Copd)	.	<0.05	0.6	2.1	1.2
Complications Of Surgery	0.2	0.4	0.7	1.3	0.9
Air Embolism	.	<0.05	<0.05	0.1	<0.05
Accident Related To Treatment	.	<0.05	<0.05	<0.05	<0.05
Accident Unrelated To Treatment	0.4	0.5	0.8	1.1	0.9
Suicide	.	0.2	0.2	0.2	0.2
Drug Overdose (Street Drugs)	.	0.3	0.1	<0.05	0.1
Drug Overdose (Not 92 Or 93)	.	<0.05	0.1	<0.05	<0.05
Withdrawal from dialysis/uremia	0.6	0.2	0.7	2.7	1.6
Other Identified Cause Of Death - Please Specify	11.7	20.6	38	84.9	56.5
Unknown	0.4	1.8	2.8	5.7	4
All Cause	38.9	84.6	169.3	347.6	236.5
Years at risk	5,222	125,632	316,606	372,667	820,128
Patients	6,290	144,527	384,177	500,550	1,035,544

Table H.a.3 (supplement)

Mortality rates by specific cause of mortality: hemodialysis patients, unadjusted*rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined*

	0-19	20-44	45-64	65+	All
Myocardial Infarction, Acute	1.7	4.8	14.5	25.6	18.2
Pericarditis, Incl. Cardiac Tamponade	.	0.3	0.3	0.2	0.3
Atherosclerotic Heart Disease	0.3	0.9	3.7	11.3	6.9
Cardiomyopathy	1	1.8	4.4	13.6	8.3
Cardiac Arrhythmia	1.4	3.4	7.2	14.2	9.9
Cardiac Arrest, Cause Unknown	6.5	21.4	41.3	79.5	56.2
Valvular Heart Disease	.	0.5	1	1.8	1.3
Pulmonary Edema Due To Exogenous Fluid	0.3	0.8	1.3	3.2	2.1
Congestive Heart Failure	.	0.1	0.3	0.9	0.6
Pulmonary Embolus	0.3	0.7	0.6	0.9	0.8
Cerebro-Vascular Accident Including Intracranial Hemorrhage	1.4	3.6	7.1	13.2	9.4
Ischemic Brain Damage/Anoxic Encephalopathy	0.3	1.1	1.6	2	1.7
Hemorrhage From Transplant Site	.	<0.05	<0.05	<0.05	<0.05
Hemorrhage From Vascular Access	0.3	0.4	0.4	0.7	0.6
Hemorrhage From Dialysis Circuit	.	.	<0.05	<0.05	<0.05
Hemorrhage From Ruptured Vascular Aneurysm	.	0.2	0.4	0.8	0.5
Hemorrhage From Surgery (Not 38,39 Or 40)	.	0.1	0.2	0.2	0.2
Other Hemorrhage (Not Codes 38-42,72)	1.4	0.5	0.8	1.1	0.9
Mesenteric Infarction/Ischemic Bowel	0.7	0.4	1	2.5	1.6
Septicemia, Due To Vascular Access	0.7	1.7	3.1	5.2	3.9
Peritoneal access infectious complication, bacterial	.	.	<0.05	<0.05	<0.05
Fungal Peritonitis	.	<0.05	<0.05	<0.05	<0.05
Peritonitis (complication of peritoneal dialysis)	.	<0.05	<0.05	<0.05	<0.05
Central nervous system infection (brain abscess, meningitis, encephalitis, etc)	.	<0.05	<0.05	<0.05	<0.05
Septicemia, Due To Peritonitis	0.3	0.4	0.6	1	0.7
Septicemia, Due To Peripheral Vascular Disease and Gangrene	0.7	1.1	4.5	8	5.6
Septicemia, Other	2.7	6.3	11.8	20.3	14.9
Pulmonary Infection (Bacterial)	0.3	0.8	1.8	6.1	3.7
Pulmonary Infection (Fungal)	.	0.1	0.1	0.1	0.1
Pulmonary Infection (Other)	0.7	0.3	0.5	1.6	1
Pulmonary infection (pneumonia, influenza)	0.3	0.1	0.3	0.9	0.6
Tuberculosis	.	<0.05	<0.05	<0.05	<0.05
Viral Infection, Cmv	.	<0.05	<0.05	<0.05	<0.05
Viral Infection, Other (Not 64 Or 65)	.	0.1	0.1	0.2	0.2
Aids	0.7	2.1	0.8	0.1	0.6
Infection, Other	0.3	0.6	0.9	1.5	1.1

Table H.a.3 (supplement)

Mortality rates by specific cause of mortality: hemodialysis patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	0-19	20-44	45-64	65+	All
Cardiac infection (endocarditis)	.	0.1	0.1	0.1	0.1
Abdominal infection (peritonitis (not comp of PD), perforated bowel, diverticular disease, gallbladder)	.	0.1	0.1	0.2	0.1
Genito-urinary infection (urinary tract infection, pyelonephritis, renal abscess)	.	.	<0.05	<0.05	<0.05
Hepatitis B	.	0.1	0.1	<0.05	<0.05
Hepatitis C	.	<0.05	<0.05	<0.05	<0.05
Other Viral Hepatitis	.	0.1	0.2	0.1	0.1
Liver-Drug Toxicity	.	<0.05	<0.05	<0.05	<0.05
Cirrhosis	.	0.3	1	0.7	0.8
Polycystic Liver Disease	.	<0.05	<0.05	<0.05	<0.05
Liver Failure, Cause Unknown Other	1	0.4	1	0.6	0.7
Gastro-Intestinal Hemorrhage	0.3	0.5	1	2.5	1.7
Pancreatitis	0.3	0.1	0.2	0.2	0.2
Perforation Of Peptic Ulcer	.	<0.05	0.1	0.1	0.1
Perforation Of Bowel (Not 75)	.	0.2	0.4	0.9	0.6
Hyperkalemia	1	1.6	1.9	4.7	3.2
Hypokalemia	.	.	.	<0.05	<0.05
Hypernatremia	.	.	<0.05	.	<0.05
Hyponatremia	.	.	.	.	.
Diabetic Coma, Hyperglycemia and Hypoglycemia	.	0.8	0.6	0.4	0.5
Acidosis	.	.	.	<0.05	<0.05
Adrenal insufficiency	.	.	.	.	.
Hypothyroidism	.	.	<0.05	.	<0.05
Hyperthyroidism	.	.	.	.	.
Bone Marrow Depression	.	<0.05	0.1	0.1	0.1
Cachexia	.	0.4	1.1	4.4	2.5
Malignant Disease, Patient Ever On Immunosuppressive Therapy	.	0.4	2	4	2.7
Malignant Disease (Not 82)	0.7	0.6	3.9	10.1	6.3
Dementia, Incl. Dialysis Dementia and Alzheimers	.	<0.05	0.2	2	1
Seizures	1.7	0.5	0.4	0.3	0.3
Chronic Obstructive Lung Disease (Copd)	.	0.1	0.7	2.2	1.3
Complications Of Surgery	.	0.4	0.7	1.3	0.9
Air Embolism	.	0.1	<0.05	0.1	<0.05
Accident Related To Treatment	.	<0.05	<0.05	<0.05	<0.05
Accident Unrelated To Treatment	0.7	0.5	0.8	1.1	0.9
Suicide	.	0.1	0.2	0.2	0.2
Drug Overdose (Street Drugs)	.	0.4	0.1	<0.05	0.1
Drug Overdose (Not 92 Or 93)	.	<0.05	0.1	<0.05	<0.05
Withdrawal from dialysis/uremia	0.7	0.2	0.7	2.8	1.6
Other Identified Cause Of Death - Please Specify	11.5	21.5	38.4	85.5	57.9
Unknown	0.7	1.8	2.9	5.8	4.1
All Cause	41.1	86.2	169.6	347.4	240.4
Years at risk	2,945	108,255	286,241	351,127	748,568
Patients	3,576	124,752	347,300	471,070	946,698

Table H.a.4 (supplement)

Mortality rates by specific cause of mortality: CAPD/CCPD patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	0-19	20-44	45-64	65+	All
Myocardial Infarction, Acute	0.9	4.4	16.4	31	17.4
Pericarditis, Incl. Cardiac Tamponade	.	0.4	0.2	0.1	0.2
Atherosclerotic Heart Disease	.	1	4.3	11	5.4
Cardiomyopathy	0.5	2.4	5.5	22.4	9.7
Cardiac Arrhythmia	0.9	2.9	7.3	15.6	8.5
Cardiac Arrest, Cause Unknown	4.2	17.6	34.8	68.9	39.9
Valvular Heart Disease	.	0.5	0.8	2.7	1.3
Pulmonary Edema Due To Exogenous Fluid	.	0.5	1.1	2.7	1.4
Congestive Heart Failure	.	.	0.2	0.9	0.3
Pulmonary Embolus	0.5	0.4	1	1.2	0.9
Cerebro-Vascular Accident Including Intracranial Hemorrhage	0.9	2.1	6.6	13.5	7.4
Ischemic Brain Damage/Anoxic Encephalopathy	0.5	1.3	1.3	2.8	1.7
Hemorrhage From Transplant Site	.	0.1	<0.05	.	<0.05
Hemorrhage From Vascular Access	.	.	0.1	0.1	0.1
Hemorrhage From Dialysis Circuit	.	.	.	<0.05	<0.05
Hemorrhage From Ruptured Vascular Aneurysm	.	0.2	0.1	0.5	0.2
Hemorrhage From Surgery (Not 38,39 Or 40)	.	0.1	0.1	<0.05	0.1
Other Hemorrhage (Not Codes 38-42,72)	0.9	0.5	0.6	0.7	0.6
Mesenteric Infarction/Ischemic Bowel	.	0.5	1.7	3.9	2
Septicemia, Due To Vascular Access	0.5	0.6	0.9	1.5	1
Peritoneal access infectious complication, bacterial	.	.	0.4	0.4	0.3
Fungal Peritonitis	0.5	0.4	0.5	1.1	0.6
Peritonitis (complication of peritoneal dialysis)	.	0.2	0.3	0.4	0.3
Central nervous system infection (brain abscess, meningitis, encephalitis, etc)	.	.	0.1	0.1	0.1
Septicemia, Due To Peritonitis	3.7	5	7.8	14.4	9
Septicemia, Due To Peripheral Vascular Disease and Gangrene	.	2.5	6.6	10.1	6.4
Septicemia, Other	4.6	5.8	12.5	18.8	12.5
Pulmonary Infection (Bacterial)	.	0.6	1.7	5.5	2.5
Pulmonary Infection (Fungal)	.	.	0.1	0.3	0.1
Pulmonary Infection (Other)	0.9	0.4	0.5	1.3	0.7
Pulmonary infection (pneumonia, influenza)	.	0.2	0.3	0.8	0.4
Tuberculosis	.	.	.	0.1	<0.05
Viral Infection, Cmv	.	0.1	0.1	.	0.1
Viral Infection, Other (Not 64 Or 65)	.	.	<0.05	0.1	0.1
Aids	.	1	0.3	.	0.4
Infection, Other	0.5	0.4	1.2	2.1	1.2

Table H.a.4 (supplement)

Mortality rates by specific cause of mortality: CAPD/CCPD patients, unadjusted

rates per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	0-19	20-44	45-64	65+	All
Cardiac infection (endocarditis)	.	.	.	<0.05	<0.05
Abdominal infection (peritonitis (not comp of PD), perforated bowel, diverticular disease, gallbladder)	.	0.1	0.1	0.4	0.2
Genito-urinary infection (urinary tract infection, pyelonephritis, renal abscess)	.	.	.	0.1	<0.05
Hepatitis B	.	.	<0.05	.	<0.05
Hepatitis C	.	.	<0.05	.	<0.05
Other Viral Hepatitis	.	.	<0.05	.	<0.05
Liver-Drug Toxicity	.	.	<0.05	0.1	<0.05
Cirrhosis	.	0.2	0.5	0.3	0.4
Polycystic Liver Disease	.	.	.	.	.
Liver Failure, Cause Unknown Other	.	0.2	0.6	0.5	0.5
Gastro-Intestinal Hemorrhage	0.5	0.4	1.1	2	1.2
Pancreatitis	.	0.7	0.3	0.3	0.4
Perforation Of Peptic Ulcer	.	0.1	0.1	0.2	0.1
Perforation Of Bowel (Not 75)	.	0.7	0.9	1.9	1.1
Hyperkalemia	0.5	0.6	1.6	3.6	1.9
Hypokalemia	.	.	.	.	.
Hypernatremia	.	.	.	.	.
Hyponatremia	.	.	.	.	.
Diabetic Coma, Hyperglycemia and Hypoglycemia	.	0.9	0.6	0.3	0.6
Acidosis	.	.	.	.	.
Adrenal insufficiency	.	.	.	.	.
Hypothyroidism	.	.	.	.	.
Hyperthyroidism	.	.	.	<0.05	<0.05
Bone Marrow Depression	0.5	.	<0.05	0.2	0.1
Cachexia	.	0.7	1.6	7.3	3
Malignant Disease, Patient Ever On Immunosuppressive Therapy	0.9	0.3	1.4	4	1.9
Malignant Disease (Not 82)	0.5	0.5	3	7.9	3.8
Dementia, Incl. Dialysis Dementia and Alzheimers	.	.	0.3	2.3	0.8
Seizures	0.5	0.2	0.2	0.1	0.2
Chronic Obstructive Lung Disease (Copd)	.	.	0.2	1.3	0.5
Complications Of Surgery	0.5	0.3	0.7	1.6	0.9
Air Embolism	.	.	.	0.1	<0.05
Accident Related To Treatment	.	.	.	<0.05	<0.05
Accident Unrelated To Treatment	.	0.5	0.6	1.1	0.7
Suicide	.	0.2	0.2	0.2	0.2
Drug Overdose (Street Drugs)	.	0.1	0.1	.	<0.05
Drug Overdose (Not 92 Or 93)	.	0.1	0.1	<0.05	0.1
Withdrawal from dialysis/uremia	0.5	0.1	1.1	2.3	1.2
Other Identified Cause Of Death - Please Specify	11.5	14.9	33.8	73.1	40.3
Unknown	.	1.7	2	4.6	2.6
All Cause	35.6	75.3	166.5	351.2	195.9
Years at risk	2,166	16,610	29,390	20,679	68,846
Patients	2,587	18,917	35,644	27,927	85,075

Table H.30
Mortality rates by cause of withdrawal, unadjusted
rates per 1,000 patient years at risk, period prevalent dialysis patients, 2002-2004 combined

	0-4	5-9	10-14	15-19	20-29	30-39	40-49	50-59
Withdraw, access failure	1.9	4	0.8	.	0.3	0.4	0.4	0.5
Withdraw, transplant failure	.	.	.	.	0.2	0.1	0.1	0.1
Withdraw, failure to thrive	1.9	.	0.8	0.3	1.3	2.4	4.8	8.6
Withdraw, med. complication	7.7	2	1.7	2	2.4	3.8	5.9	9.7
Withdraw, other	.	4	3.3	0.7	1.2	2.3	3.2	5.4
Did not withdraw	53.6	29.7	22.3	29.8	46.1	64.4	93.6	128.1
Missing data	7.7	.	3.3	2.7	4	5.3	7.9	10.5
Other cause	.	.	.	.	.	.	.	.
All	72.8	39.6	32.2	35.5	55.5	78.7	115.9	163
Years at risk	522	505	1,210	2,985	22,231	56,732	109,653	164,105
Patients	643	633	1,489	3,525	25,383	64,895	128,416	198,265

	60-64	65-69	70-79	80+	Male	Female	White	Black
Withdraw, access failure	0.7	0.9	1.2	2.3	0.6	1.2	1	0.7
Withdraw, transplant failure	0.1	0.1	0.1	0.1	0.1	0.1	0.1	<0.05
Withdraw, failure to thrive	14.1	21.3	37.5	70.1	20.2	25.1	32.4	9.3
Withdraw, med. complication	15.3	19.5	28.7	43.7	16.4	20.4	25	9
Withdraw, other	7.7	11.1	18.3	32.2	10.5	12.4	15.8	5.5
Did not withdraw	161.6	185.7	226.4	290.3	166.2	165.8	181.6	146.5
Missing data	13.6	18.2	25.3	42.7	17.5	17.5	21.8	12.5
Other cause	.	.	.	.	.	.	.	.
All	213.1	256.7	337.5	481.5	231.5	242.5	277.8	183.5
Years at risk	89,518	101,737	187,694	83,236	444,599	375,529	462,077	306,013
Patients	111,745	130,538	250,877	119,135	560,645	474,899	604,034	368,022

	Other race	†Hispanic	†Non-Hispanic	Diabetes	Hypertension	renalonephritis	Other cause	All
Withdraw, access failure	0.7	0.7	0.9	1	0.8	0.6	0.9	0.9
Withdraw, transplant failure	<0.05	<0.05	0.1	0.1	0.1	0.2	0.2	0.1
Withdraw, failure to thrive	11.4	12.3	24	23.7	23.5	13.3	24.4	22.5
Withdraw, med. complication	12.1	12.1	19.1	20.6	17.7	10.8	18.4	18.2
Withdraw, other	6.4	8.7	11.8	12	11.8	6.7	12.5	11.4
Did not withdraw	141.5	148.6	168.6	192.2	169	102.6	143.7	166
Missing data	9.4	9.9	18.6	15.7	18.6	10.1	25.5	17.5
Other cause	.	.	.	.	.	.	.	.
All	181.6	192.3	243.1	265.4	241.6	144.1	225.5	236.5
Years at risk	52,038	105,823	714,305	342,815	231,324	102,664	143,324	820,128
Patients	63,488	130,261	905,283	443,025	292,499	119,627	180,393	1,035,544

Age is determined as of January 1 of each calendar year.
 "All" category includes patients of other & unknown races.
 U.S. only; patients of unknown age or gender are excluded.
 "." Zero values in this cell.

Table H.31

Expected remaining lifetimes* of the general U.S. population, & of prevalent dialysis & transplant patients

general U.S. population, 2001

	All races			White			Black		
	All	M	F	All	M	F	All	M	F
0									
1									
5									
10									
15									
20									
25									
30									
35									
40									
45									
50									
55									
60									
65									
70									
75									
80									
85									
90									
95									
100									

http://www.cdc.gov/nchs/data/nvsr/nvsr52/nvsr52_14.pdf

Dialysis	All races			White			Black			N Am			Asian		
	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female
0-14	20.4	21.1	19.6	20.5	21.2	19.7	19.1	19.7	18.4	23.1	23.3	22.7	33.2	33.9	31.9
15-19	16.6	17.2	15.9	16.2	16.7	15.7	16.3	17.2	15.4	17.5	18.2	16.8	26.1	26.7	25.4
20-24	14.3	14.9	13.6	13.8	14.3	13.2	14.3	15.1	13.3	15.1	16	14.2	22.8	23.4	22.2
25-29	12.7	13.2	12.1	12	12.4	11.4	12.9	13.6	12.2	13.4	13.8	12.9	20	20.4	19.5
30-34	11.1	11.3	10.8	10.2	10.4	10	11.7	12	11.2	11.5	11.9	11.1	17.4	17.6	17.1
35-39	9.4	9.4	9.3	8.5	8.5	8.5	10	10.2	9.8	9.7	9.9	9.5	14.6	14.7	14.5
40-44	8.1	8.2	8	7.3	7.3	7.3	8.8	9	8.5	8.4	8.5	8.2	12.3	12.3	12.3
45-49	7.1	7.1	7	6.4	6.4	6.3	7.7	7.8	7.5	7.4	7.6	7.1	10.3	10.3	10.2
50-54	6.1	6.1	6	5.5	5.5	5.5	6.7	6.8	6.5	6.5	6.7	6.4	8.6	8.6	8.6
55-59	5.1	5.2	5.1	4.7	4.7	4.7	5.8	5.8	5.7	5.5	5.6	5.4	6.9	7	6.9
60-64	4.4	4.3	4.4	4	3.9	4	5	5	5	4.8	4.7	4.9	5.9	6	5.8
65-69	3.7	3.6	3.8	3.4	3.4	3.5	4.2	4.1	4.3	4.3	4.3	4.3	5	5	4.9
70-74	3.1	3.1	3.2	2.9	2.9	3	3.5	3.5	3.6	3.5	3.5	3.6	4.1	4.2	4.1
75-79	2.7	2.6	2.7	2.5	2.5	2.5	3	2.9	3	3	3	3.1	3.4	3.4	3.3
80-84	2.2	2.2	2.3	2.2	2.1	2.2	2.5	2.4	2.6	2.5	2.4	2.6	2.8	2.9	2.8
85+	1.8	1.7	1.9	1.7	1.7	1.8	2	1.8	2	2	1.9	2.1	2.3	2.2	2.4
all	4.57	4.58	4.55	4.21	4.21	4.20	5.00	5.04	4.92	4.92	4.99	4.87	6.54	6.60	6.48

Transplant	All races			White			Black			N Am			Asian		
	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female
0-14	49.6	49.4	50	49.8	49.6	50.3	48.3	48.1	48.7	35	37.5	31.9	59.5	58.3	61.5
15-19	39.4	39.1	39.9	39.4	39.1	40	38.5	38.3	39	30.2	32.4	28.6	47.8	46.5	49.9
20-24	36	35.6	36.6	35.9	35.6	36.5	35.2	34.9	35.7	28.9	30.7	27.4	43.9	42.6	46.1
25-29	32.3	31.9	32.9	32.2	31.8	32.8	31.6	31.3	32.2	26.7	28.2	25.3	39.8	38.5	42
30-34	28.4	28	29.2	28.3	27.9	29	27.9	27.5	28.5	24	25.4	22.6	35.6	34.3	37.8
35-39	24.8	24.3	25.7	24.7	24.3	25.6	24.4	23.9	25.1	21.6	22.4	20.5	31.5	30.1	33.7
40-44	21.7	21.1	22.6	21.6	21.1	22.5	21.1	20.6	21.9	19.2	19.9	18.3	27.6	26.2	29.8
45-49	18.8	18.3	19.8	18.8	18.3	19.8	18.2	17.7	19	17.2	17.9	16.3	23.9	22.5	26.2
50-54	16.2	15.7	17.2	16.3	15.7	17.2	15.4	14.9	16.2	15.2	15.9	14.3	20.4	19.1	22.7
55-59	13.7	13.2	14.7	13.8	13.3	14.8	12.9	12.4	13.6	13.6	14.2	12.8	17.2	16	19.5
60-64	11.6	11.1	12.4	11.7	11.2	12.6	10.6	10.2	11.4	12.1	12.6	11.6	14.4	13.3	16.6
65-69	9.9	9.5	10.7	10	9.6	10.8	9.1	8.6	9.8	11.1	11.4	10.7	12.3	11.2	14.2
70-74	8.3	7.9	9.1	8.4	8	9.1	7.6	7.1	8.2	9.8	10	9.6	10.2	9.2	12.1
75-79	6.8	6.5	7.5	6.9	6.6	7.5	6.2	5.7	6.9	8.5	8.4	8.7	8.4	7.5	10.1
all	12.1	11.8	12.9	12.2	11.8	12.9	11.5	11.1	12.1	11.9	12.3	11.4	15.2	14.2	17.0

*Years

Table H.32

First-year mortality rates, ESRD

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	188.4	204.8	123	135.8	108.8	147.1	58.1	107.4	104.1	69.8	97.9	67.7	95.3	89.8
5-9	27.2	20	33.2	31.7	0	20.8	32.1	52	0	11	0	34.3	52.6	36.4
10-14	34.3	20	47.5	41.2	9.8	9.9	19.9	21.6	17.1	23.1	26	17.2	18.2	10
15-19	29.3	42.1	34.9	33.3	37.8	16.4	35.9	17.3	42.9	18.1	27.8	21	21.3	20.6
20-29	69.8	75.2	61.5	65.8	63.3	68.3	48.9	38.7	40.7	41.6	59.5	48.6	58.9	55.3
30-39	97.8	105.5	97.1	104.3	99.7	100	93.2	80.2	84.9	83.8	81.7	79.6	77.7	76.4
40-49	113.8	125.9	119.9	109.3	110.7	106.9	103.8	99.5	109	103.2	99	104.9	101.9	104.4
50-59	169.9	172.6	157.5	159.9	149.7	144.4	153.7	149	151.1	146.9	151.2	142.9	145.3	147.2
60-64	244.3	236.4	230.8	208.9	212.5	215.6	199.6	196.5	217.4	205.1	206.7	197.4	207.7	191.7
65-69	282.1	286.9	281.4	259.9	271.7	259.5	250.3	261.4	270	266.4	260.3	262.6	263.1	255.3
70-79	379.1	383.6	379.7	358.3	356	353.2	344.9	359.2	358.2	362.6	364.2	362.3	364.4	360.5
80+	521.8	525.8	542.6	497.9	494.8	504.5	509.4	518.8	552.2	539.5	548.5	548.2	530.6	527.1
Male	234.1	242.3	241	224.1	230.6	231.1	229.5	237.6	245.8	243.3	247.6	244.1	250	246.2
Female	234.4	243.9	238.5	235.4	233.6	231.8	236.4	245.9	256.5	260.5	261.6	260.6	264.3	259.5
White	267.1	277.3	276.8	261.7	263.2	261.4	264.5	277.1	283.2	283	284.7	285.7	289	282
Black	172.8	183	173.1	173.5	178	180.4	173	176.5	192.8	193	198.1	191.7	198.8	203.3
Other race	149.6	133.4	150.4	142.2	151.9	167	190.2	181	194.6	190.6	188.7	172.8	186	168.8
†Hispanic	.	.	.	.	.	.	188.5	192.8	191.1	198.1	191.6	188.1	197.1	193
†Non-Hispanic	.	.	.	.	.	.	238.3	247.4	258.2	258.2	263.6	260.2	264.6	260.8
Diabetes	261.5	258.6	256.1	236	238.2	240	240.6	248.1	258.3	252	252.7	249.2	253.4	245.1
Hypertension	253	267.4	264	259.6	257.7	247.8	249.9	266	272.9	276.9	275.6	278.3	277.3	280.4
Glomerulonephritis	137.7	153.1	135.5	124.2	142.4	135.8	130.3	133.5	133.5	142.1	138.1	135.4	134.1	131.6
Other cause	228.2	239.4	240	239	237.8	252.4	256.9	255.5	268.6	272.7	288.5	278.8	295.3	285.8
All	234.2	243.1	239.8	229.3	232	231.4	232.7	241.4	250.7	251.2	254.1	251.6	256.4	252.3
ADJUSTED														
0-19	90.6	109.7	91.8	91.1	62.1	61.3	63.9	64.2	69.7	44	63.7	52	64.2	51.5
20-44	101.9	110.8	103.9	106	99.3	100.3	89.1	81.7	86.4	85.2	84.6	82.8	83	82.2
45-64	186.3	185.3	173	163.2	159.5	156.5	154.9	148.9	158.1	150.8	152.3	147.7	151	148.7
65-74	312.7	317.4	309.6	284.1	295.6	283.9	274.5	285	288.3	284.8	284.2	284.8	289.4	280.5
75+	460.2	460.6	469.4	448.4	433.9	440.2	436.2	449.1	461.9	460.8	463.4	461.1	453.7	451.6
Male	287.2	289.5	282.6	258.3	260.4	258.3	246.7	247.6	253.7	245.5	248.5	244.9	246.8	242.5
Female	262.9	266.7	256.5	250.1	243	237.3	236.1	239.2	248.2	248.6	246.9	245.3	245.7	241.5
White	306.9	309.1	300.6	278.8	274.2	267.8	261.5	266	268.9	263.6	263.4	263.3	262.2	255.5
Black	218.6	226.4	213.9	212.5	214.3	214.6	202.4	201.5	218.9	218.8	221.9	214.4	220.5	225.7
Other race	180.7	160.1	176	161.7	168.7	176	195.6	179.3	196	186	183.6	171.6	181.2	164
Diabetes	309.3	299.9	291.7	265.4	263.4	261.9	256.3	258.8	268.4	258	256.4	252.1	254	245.1
Hypertension	243	252	248.7	238.8	235.2	224.4	219.9	229.3	233.9	234.8	232.5	235.5	229.8	234
Glomerulonephritis	201.5	216.2	191.8	174.7	191	183.5	167.8	170.4	169.6	173.9	172.3	175.4	168.1	168.4
Other cause	285.2	297	292.6	294.7	286.8	293.4	293.2	282.3	296.1	295.6	311.8	302.3	318	308.8
All	275.1	278	269.4	253.9	251.5	247.6	241.2	243.2	250.7	246.6	247.4	244.7	245.9	241.7

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.33

First-year mortality rates, dialysis

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	260.5	253.3	163.6	191.2	138.7	196.6	92.8	158.6	135.7	104.2	118	94.4	105.3	118.9
5-9	54.3	53.4	82.9	39.9	0	16	65.2	42.4	0	15.5	0	50.6	89.6	39.6
10-14	47.6	27	62.2	70.3	16	18.8	26.2	40.7	19.5	42.3	42	24.1	31.1	0
15-19	36	44.3	32.8	43.6	46.2	20.2	38.5	21.4	55.3	21.3	38.2	30.2	29.8	29.7
20-29	85.4	87.5	74.1	82.2	73.8	81.2	58.4	43.6	48.1	49.3	69.3	55.8	67.8	65.5
30-39	112.7	123.9	111	119.1	112.7	113.5	105.1	88.6	96.2	92	90	88.7	86.6	84.6
40-49	120.1	139.2	131.1	118.5	119.3	114.3	110.1	105.9	116.9	109.6	106	112.3	110.1	112.7
50-59	175	179.6	163	164.6	153.2	149.4	158.1	154.8	156.8	151.9	156.8	149.3	151.7	154.5
60-64	247.1	239.7	234.7	211.6	214.1	220.2	202.7	200.1	221.4	208.1	210.8	202.1	213.6	197.1
65-69	283	287.9	282.3	261.1	273.5	261.8	252	264.3	272.4	269.5	263.9	266.8	267.9	260.2
70-79	379.8	383.8	380.1	359	356.4	353.9	345.2	359.7	358.9	363.4	365.2	363.8	366	362.1
80+	521.4	525.2	542.6	497.9	494.8	504.5	509.4	518.8	552.5	539.7	548.5	548.3	530.7	527.2
Male	249.4	257.6	254.8	236.8	241.3	243.5	239.8	247.3	255.7	251.8	256.5	253.7	260.2	256.7
Female	245.6	256.5	249.9	245.2	243	240.6	244	254	264.8	268.4	270.4	269.7	273.5	268.6
White	288.1	299	296.6	279.6	279.2	278.1	278.5	291.5	297.6	295.7	297.9	300.3	304	296.7
Black	175.8	186.6	176.5	176.2	180.1	183.3	175.3	178.6	195.1	194.9	200.5	193.9	201.3	206.1
Other race	157.3	141.5	155.7	148.2	157.9	171.7	195.6	184.1	199.7	195.4	193.7	177.5	190.8	174.4
†Hispanic	.	.	.	.	.	.	192.6	198	196	202.5	196.6	193.2	201.9	197.5
†Non-Hispanic	.	.	.	.	.	.	248.1	257	268.1	267	273.1	270.3	275.2	271.5
Diabetes	271.7	269.1	265.5	243.5	245.3	246.6	246.9	253.5	263.9	256.5	257.7	254.2	258.9	249.7
Hypertension	258.3	272.5	269.5	264.4	261.4	252.1	253.5	269.8	276.6	280.4	279.6	282.3	281.8	284.6
Glomerulonephritis	153.1	170.6	150.9	138	155.5	151	142.3	146	145.2	152.8	149.9	149.3	147.8	145.9
Other cause	252.2	266.9	263.7	263.6	260.4	276.4	275.9	276.2	290.7	294.1	311.6	303.7	321	314.4
All	247.6	257.1	252.4	240.7	242.1	242.1	241.7	250.4	260	259.4	262.9	261	266.3	262.1
ADJUSTED														
0-19	131.8	147.3	121.3	135.9	88.6	88	86.7	93.2	104.1	66.3	93	77.4	91.1	68.9
20-44	114.8	128.6	119.3	123.2	113.2	114.6	101.5	92.6	98.9	95.4	95.2	94.1	95.2	94.2
45-64	193.1	194.7	181.8	170.5	166.2	164.8	162.5	156.9	167.1	158.4	160.4	156.3	159.9	157.6
65-74	313.3	318.1	310.6	285.5	297.1	286.1	276.1	287.4	290.7	287.5	287.3	288.7	293.7	284.9
75+	460.2	460.3	469.3	448.4	433.9	440.3	436.3	449.3	462.2	460.9	463.6	461.5	454	452.1
Male	284.7	288.2	282.1	258.7	259.9	259.7	248	249.9	256.7	248	251.3	248.6	251.3	247.4
Female	264.3	270.9	260.9	254.3	248	242.3	241.3	245.8	255.2	255.3	254.4	253.3	254	249.6
White	307.5	312.2	304.8	283.3	278.7	273.6	267.6	273.8	277.3	271.7	272.1	273.1	272.6	265.8
Black	216.9	225.7	213.4	211.7	213.3	214.4	202.4	201.8	219.4	218.8	222.5	215.1	221.5	226.8
Other race	180	160.9	175.1	162.4	170.6	177.5	197.9	181.3	198.7	189.4	187.2	174.9	184	167.4
Diabetes	309.7	302.7	295.2	268.4	267.2	266.8	262	264.6	275	263.6	262.4	258.7	261.1	251.4
Hypertension	247.7	257.2	254.3	244.4	240.4	229.7	225.4	235.6	240.4	241.1	239.2	242.1	237	241
Glomerulonephritis	192.4	209.4	185.7	169.5	184.6	180.8	164.6	168.1	167.1	170.5	170.5	174.1	167.4	168.5
Other cause	282.6	296.9	290.9	293.8	285.6	295.4	291.6	284.8	299.1	298.7	315.5	308.1	323.7	317.1
All	274.7	279.7	271.6	256.3	253.9	251.1	244.6	247.8	255.8	251.3	252.6	250.6	252.3	248.2

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded so that rates can be calculated appropriately.

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

." Zero values in this cell.

Table H.34

First-year mortality rates, hemodialysis

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	441.8	211.3	213.6	539	431.8	523.2		191.3	446.3	192.4		207.6	169.4	64.5
5-9	129.6			74.1		51.3	133.5					93.2	213.9	133.5
10-14	42.6	26.7	99.5	80.8	36.1			79.4	44.7	103.1	31.3	28.6	45.6	
15-19	41.8	52.2	35.4	48	39	20	47.4	23.7	57.8	17.8	46.4	35.5	34.2	33.5
20-29	87.1	89.8	83.8	80.6	72.8	83.6	59.9	50.1	51.1	55.3	72.7	57.4	70.3	69.4
30-39	120.4	133.4	114.5	128.4	115.3	120.2	111.1	91.8	101.5	99.1	99.1	94.4	91.9	88.9
40-49	125	149.1	132.1	121.8	119.5	122.1	114.8	109.5	122.7	113.3	111.2	119.4	112.4	118.3
50-59	179	182	162.6	162	152.7	151.8	159.6	157.4	158	155.1	159.4	155.1	155.7	157.7
60-64	251.9	245.1	234.6	203.2	206.8	219	199.4	200.7	218.9	205.8	212.6	202.9	217.4	200.8
65-69	283.5	286.2	283.9	260.7	267.5	258.9	252.3	264	277.7	271	268	267.5	271.4	265.7
70-79	374.8	381.2	374.1	349.4	349.8	354.4	348	358.8	359.7	367.3	369.3	367.7	368.8	364.7
80+	513.5	523.1	528	475.1	482.9	505	512.1	511.2	550.5	540.2	553.8	546.4	530.2	529.1
Male	256.8	265.8	259.3	239.5	242.9	249.7	245.5	252.6	260	258	262.9	260.6	265.5	263.4
Female	253.4	264.5	254.9	245.2	243.5	248.8	251.7	258.4	272.9	274.9	279.4	276.9	281.3	275.9
White	303.3	315.1	308.4	285.5	285.1	290.3	290.5	300.7	306.2	305.7	308.7	310.1	312.4	306.1
Black	179.1	189.4	178	175.9	178.4	186	178.1	181.9	200.2	199.3	205.2	198.8	206	210.7
Other race	154.1	149.7	162	157	162.7	186.5	205.4	187.3	208.2	196.5	200.9	184.9	198.8	179.7
†Hispanic	.	.	.	.	.	.	197.5	201.7	202	210.9	201.2	196.9	204.8	201.2
†Non-Hispanic	.	.	.	.	.	.	255.1	262.1	274.2	273.2	281.3	278	282.1	279.1
Diabetes	275.3	272.9	264.8	239.2	239.2	248.7	247.9	251.3	266.6	259.6	260.4	257.6	260.5	253.4
Hypertension	261.8	277.7	269.9	263.8	259.4	254.1	257.4	273.9	278.9	284.4	287.1	286.2	288.6	288.9
Glomerulonephritis	166.5	185.9	162	147.6	168.3	164.1	153.9	156.7	158	165.2	162.5	159.5	158.5	158.3
Other cause	267	280.1	279.4	271.1	272.2	296.7	294	294	303.8	306.7	326.8	321.9	335.5	330
All	255.2	265.2	257.3	242.1	243.1	249.3	248.4	255.3	266	265.8	270.5	268.1	272.6	269.1
ADJUSTED														
0-19	136.4	115.2	112.9	155.5	99.3	82.2	89.9	91	131.6	71.3	82.6	98.7	111.8	67.6
20-44	121.4	139.1	124.8	130.5	116.4	121.7	109	99	105.5	101.7	104.2	100.7	100.8	98.5
45-64	200.5	202.5	185.4	169.5	165.8	169.7	165.1	160.8	169.8	162.1	164.3	162	164.6	162.8
65-74	313.1	316.9	310.5	283.7	294	285.7	279.3	289	295	291.4	292.6	293.5	297.3	290.3
75+	454	460.7	460.9	432	423.7	443	439.6	445.2	462.7	463.7	469.2	461.5	456.7	454.3
Male	287.6	292.9	283.6	257.6	258.2	263.2	251.7	253.1	259.2	253	256.4	253.8	254.8	252.4
Female	266.6	273	260.2	248.8	244	245.3	244.7	246.5	259.7	258.6	260.1	257	258.8	253.6
White	312.7	318.2	307.1	280.5	277.2	277.7	272.5	276.5	280.5	276.4	278.3	277.9	276.6	270.8
Black	216	224.4	210.7	206.6	207.1	213.8	202.4	202.8	222.8	221.7	225.3	218.2	224.9	229.7
Other race	172.3	165.2	176.5	166.5	169.8	187.9	202.7	181.2	202.9	189.3	190.8	180.1	189.3	170.5
Diabetes	311.6	304.7	292.1	262.1	259	267.3	262	261.3	277	266.3	264.4	261.2	262	254.3
Hypertension	249.6	261.4	254.9	242.5	239.2	230.7	229.3	239	242.4	244.4	245.7	245.1	242.3	244.1
Glomerulonephritis	199.6	219.7	191.2	174.4	191.5	189.3	172.9	175.6	176	179.5	180.2	181.7	176.3	177.7
Other cause	288.8	301	297.8	291.5	288.8	307	301.5	295.2	305.6	305.9	325.3	319.3	331.2	326.5
All	277.2	282.9	271.9	253	251	254.2	248.1	249.7	259.2	255.4	257.9	255	256.3	252.7

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded so that rates can be calculated appropriately.

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

." Zero values in this cell.

Table H.35

First-year mortality rates, CAPD/CCPD

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	262.5	257.1	143.9	118.8	110.6	149.1	95.5	158.5	92.8	90.4	146.2	64.9	97.2	87.2
5-9	35.1		125.4	44.5			40.8	65.1		26		26	31.7	
10-14	45.6	24.7	26.7	36.7		46.4	56.2	20.2			44.1	23.5	18.3	
15-19		42	39.8	39	37.1	12.7	25		37.5	16.5	20.2	16.5	18.3	
20-29	95.5	77.6	46.8	68.2	50	57.1	62.3	14.5	22.8	11.5	42	43.8	53.6	46.7
30-39	85.1	71.6	86.5	75.7	76.6	80.8	64.6	57.2	65.5	41.2	39.7	34.2	45.8	45.5
40-49	105.3	102.9	96.9	87.6	93	77.3	75.7	75.1	66.4	72.3	57.8	47.8	83.4	60.6
50-59	154.7	161.5	139.2	136.7	115.3	122	133.9	108.9	128.9	109.1	117.4	85.5	90.6	93.7
60-64	232.1	187.3	202.1	177.4	201.6	199.6	205.5	179	181.6	196.6	164.7	170.8	134.6	140.4
65-69	274.4	256.7	209.9	220.6	240.8	219.1	220.8	246.1	205.4	215.8	230.4	227.3	209.7	193.9
70-79	435.2	370	376.8	356.4	347.5	288.8	304.5	311.6	291.8	311.2	323.5	251.5	281.2	249.9
80+	510.8	489.1	501.5	548.3	514.8	422.3	509.2	555.9	518.1	515.8	484.9	453.1	539	417.9
Male	195.5	177.6	168.6	166.4	165.6	156.7	165.9	154.8	159.6	150.4	157.4	134.6	156.3	133.8
Female	192.8	170.9	167.4	163	164.5	150.7	156.9	164.3	152.7	162	158.5	147.1	143.8	142.5
White	212.1	193.6	182.3	181.4	179	169.1	182	177	180.6	175.6	182	162.4	172.9	154.7
Black	147.8	137.1	134.9	131.6	144.6	132	113.8	114.7	98.9	99.2	93.3	91.9	98.7	101.4
Other race	127.2	43.8	115.7	85.4	71.4	66.7	100.8	106.3	87.4	117.2	111.3	68.2	101	102.4
†Hispanic							113.6	124.4	90.8	99.5	125.8	87.8	131.5	122.3
†Non-Hispanic							167.4	163.1	164	162.8	162.3	146.5	152.9	139.7
Diabetes	240.2	218.3	212.2	193.5	203.8	191	201.2	204.6	194.1	188.3	194.8	165.8	192.4	164.1
Hypertension	212	182.3	184.6	189.7	196.3	154.8	160.9	167.1	177.3	181.9	174.7	163.1	147.3	158
Glomerulonephritis	87.8	101.7	77.9	68.5	65.9	67.6	71.9	70.5	54.2	53.6	54.5	75.3	43.2	44.9
Other cause	178.3	142.2	137.3	159.1	134.6	145.8	149.5	122.3	132.5	132.8	138.9	113.3	134	122.3
All	194.2	174.6	168	164.8	165.1	153.9	161.7	159.2	156.3	155.8	157.9	140.5	150.4	137.8
ADJUSTED														
0-19	142.2	192.2	144.2	130.5	79.3	114	102.9	116	75.5	66.8	125.1	64.6	85	52.5
20-44	99.4	86	86.8	85.6	80.1	81	64.3	54.2	53.2	48.9	41.7	37.6	49.2	55.6
45-64	164.6	151.1	141.6	132.3	128.8	126	134.4	114.7	125.1	113.9	112.9	96.9	98.5	95.6
65-74	308.7	286.9	258.3	238.4	267	241	233.3	239.6	205.8	233.6	241.3	203	234.4	194.9
75+	550	448.5	483.6	513.5	458.7	346.2	423	445.9	440.9	402.5	413.3	387.3	374.3	347.3
Male	270.7	244.1	227.9	221.2	215.7	200.8	208.4	184	191	175.7	182.2	155	182.3	152.6
Female	263.1	238.9	234	220.6	223.9	200.1	205.3	214.4	194.5	202.7	203.3	184	174.3	177.1
White	290	265	245.7	237.6	230.8	215.7	228.2	213.8	216.4	208.2	213.6	189.9	198.1	175.8
Black	247.5	223.5	222.1	216	234	200.3	177.6	177	147.3	148.8	141.1	135.3	142.4	147.3
Other race	186.2	70.8	185.5	124.5	118.7	93.8	131.2	145.5	127.1	146.5	161.5	84.4	125.7	125.1
Diabetes	313.6	288	281	248	261.4	242.6	251.6	245.2	233.3	224.6	232	195.3	225.5	191.3
Hypertension	235	210	201.2	209.1	212.5	167.6	168.6	171.6	178.5	180.6	176.9	157.8	143.3	154.6
Glomerulonephritis	153.3	166.7	135.6	113.1	108	107.8	113.6	113.4	88.4	87	83.2	116	65	72.3
Other cause	269	218.2	212.1	246.2	202.5	217.1	226.7	182.3	198.8	188.2	201	160	197.1	175.9
All	267	241.5	230.3	220.7	218.9	200	206.5	196.8	192.1	187.5	190.4	167.6	178.3	162.9

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded so that rates can be calculated appropriately.

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

"." Zero values in this cell.

Table H.36

First-year mortality rates, transplant

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	77.6	51.3	27.8	22.2	17.7	13.2	13.4	16	12	26	38.2			
5-9	61.4				12.4	10.7								11.4
10-14	66.1	22.3	21.8				6.6						7.6	6.2
15-19	47.2	12.4	13.1		14.9	3.3		4.2	9.2	3.6				
20-29	9.7	8.3	3.6	8.3	8	2.7	4.7	4.8	6.8	5	4.1	6.2	3.5	5.6
30-39	13.8	12.3	11	12.5	9.9	9.1	10.9	8.3	8	7.8	9.5	5.7	8.3	5.5
40-49	25.4	14.5	12.8	14	14.4	19.1	15	14.5	10	14.9	11.6	15.1	11.9	10.7
50-59	29.4	22.5	30.5	30.3	29.4	29.5	18.5	27.3	16.5	22.6	25.3	21.9	21.2	19.4
60-64	49.6	47.6	23.3	36.8	27	28.8	40.5	33.7	30.7	29.1	27.5	30.2	24	30.1
65-69	49.9	32	57.4	72.2	37.6	50	40.6	36.5	45.1	33	44.6	30.5	28.9	26.6
70-79	58.3	71.5	24.1	48.2	37	50.9	45.6	58.3	80	35.9	54.2	46.1	46.8	50
80+		693.1			693.1					182.3	133.5			
Male	27.8	18.1	17.1	18.6	19.1	19.2	17.4	16.8	16.4	16.8	20.9	17.9	17.3	18.1
Female	21.7	17	16.2	19.4	14.6	16.7	15.6	19.5	14.6	16.6	15.2	16.4	15.7	14.4
White	27.9	17.5	16.7	18.8	17.7	20	17.2	16.9	15.5	16.2	18.5	15.8	17.2	17.3
Black	15.7	19.6	18.7	19.5	17	14.2	14.8	22.6	16.5	19.4	18.9	21.6	16.3	14.9
Other race	26	12.7	8.4	18.4	13.5	9.4	17.3	10.6	14.8	12.6	18.5	17.8	12.3	16.3
†Hispanic							18.7	5.1	11.8	13.6	23.1	15.1	10.7	14.6
†Non-Hispanic							16.4	19.4	16.2	17.2	17.9	17.6	17.6	17
Diabetes	26.9	27.5	22	31.4	23.8	25.1	22	23.3	20.8	23.1	27.4	25.4	23	23
Hypertension	25.1	16.1	19.2	18.1	16.6	17.4	13.7	25.4	15.9	20.6	26.4	21.9	12.5	18.2
Glomerulonephritis	14.6	12.4	13.1	7.3	10.2	13.7	10.9	9.4	10.9	10.9	7.8	6.9	12	12.4
Other cause	34.6	15.3	14.4	18.3	18.3	16.4	18.6	15.8	14.6	13.4	14.2	14.7	16.6	12.9
All	25.3	17.7	16.8	18.9	17.3	18.2	16.7	17.9	15.7	16.7	18.6	17.3	16.7	16.7
ADJUSTED														
0-19	52	16.4	13.9	3.1	9.9	2.9	3.1	1.7	3.5	3.1	1.9	1.8	5	7.3
20-44	19.4	15.5	13.1	13.9	12.3	11.3	12.1	11.8	8.8	12.4	10.3	11.2	9.1	6.8
45-64	36.8	26.8	25.6	30.2	27.8	30.2	24.4	27	20.2	23.3	24.7	23.4	21.8	22.7
65-74	61.6	46.5	55.1	72.8	42.1	51.1	44.6	46	56.4	31.8	48.3	36	31.5	36.6
75+	61.6	46.5	55.1	72.8	42.1	51.1	44.6	46	56.4	31.8	48.3	36	31.5	36.6
Male	81.1	51.6	47.2	49.9	49.8	48.1	41.9	39.5	36.9	37.3	43.9	37.3	34.7	35.5
Female	69.2	52.2	47.6	55.6	40.5	45.8	40.5	50.1	36.3	41	35.6	37.4	34.2	31.7
White	84.5	51.2	47.3	52.4	47.7	51.9	42.7	41.3	35.9	37.4	39.9	33.8	34.9	34.6
Black	42.9	52.3	48.5	47.6	41.6	33.7	34	50.2	36.3	41.8	40.2	44.5	32.7	29.8
Other race	64.5	32.2	20.6	43.2	28.6	23.6	34.8	21.6	29.5	23.6	33.8	32.1	21.6	27.9
Diabetes	63.1	62.4	48.3	67.9	49.7	50.8	43.1	44.3	38.5	41.5	47.3	43.5	38.1	37.2
Hypertension	48.2	31.4	35.9	33.1	30.6	31.2	23.7	42.7	26.2	33.7	42.2	34.2	18.9	27.5
Glomerulonephritis	44.3	36.5	37.6	21.3	28.6	36.9	28.6	24.2	28	27	18.8	16.4	27.1	27.6
Other cause	98.4	43.3	38.8	49.9	48.7	43.2	47	38.7	34.8	32.1	32	33	36.5	27.1
All	75.9	51.4	47	51.6	45.8	46.8	41	43.1	36.3	38.2	40.3	36.9	34.1	33.7

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

"." Zero values in this cell.

Table H.37

Second-year mortality rates, ESRD

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	61.9	50	37	28.4	37	71.5	40.4	43.7	42.1	37.3	36.8	57.7	10.1	56.7
5-9	10.4	27.9	0	0	44	24.9	10.6	10.9	13.4	24.1	11.2	0	11.7	9
10-14	25.6	29.5	10.2	16.3	15.9	9.9	20	15.2	11	5.8	5.9	10.6	29.3	24
15-19	15.8	20.1	30	16.7	22	12.9	16.7	37.3	32.6	22.2	31.7	28.6	24.2	19.9
20-29	49.8	59.2	57.4	54.1	43.9	41.8	52	44.1	47.5	37	45.8	46.3	50	56.3
30-39	88.5	90.5	96.6	93.3	80.2	90.5	77.1	76.6	76.4	79.8	67.7	70.3	70.9	61.4
40-49	124.2	111.4	126.7	110.1	114.2	111.3	104.6	113.5	105.6	97.6	105.9	105.5	97.5	98.2
50-59	168	179.5	172.1	170.2	158	153.7	162.5	154.3	150.1	161.4	151.3	147.5	146.1	138.2
60-64	237.5	241.2	234.5	231.3	218.1	207.6	216	204.7	208.1	210.1	195.9	187.6	188.2	185.4
65-69	277.4	288	279.8	264.6	251.9	259.7	254.9	245.7	257.4	250.4	245.6	232.6	208.2	225.7
70-79	345.3	356.6	347.3	332.6	335.1	331.4	325.4	316.3	335.9	316.4	309.6	315.9	298.1	300.8
80+	427.8	480.6	500.3	464.5	484.9	458.7	453.5	452.6	473.8	441.9	450.5	440.8	437.6	428.3
Male	202.6	212.4	215.1	207.7	201.7	204.4	200.2	205.2	214.2	207.1	206.7	201.4	199.4	201.1
Female	202.4	214.8	218.2	209.7	212.4	211.1	216.7	211.6	222.7	219.3	216.2	219.4	203.2	208.2
White	225.9	238.8	242.7	234.9	237	237.5	237.7	239.9	250.4	241	238.2	237	229.1	232.2
Black	161.3	169.1	175.9	165.3	156.8	157.1	157.9	151.7	163.2	166	167.1	161.1	155.7	157
Other race	150.5	161.6	131.1	150	144.6	156	167.9	178.8	175.9	169.5	154	167.8	144.3	157.6
†Hispanic	.	.	.	.	.	.	.	183.7	185.5	177	168.5	157.1	163.6	164.2
†Non-Hispanic	.	.	.	.	.	.	.	211.4	222.3	217.4	217	218.1	206.5	210.1
Diabetes	257.1	271	264.7	254.7	248.7	249.5	249	246.3	252	246.7	238.6	234.4	225.4	228.8
Hypertension	212.8	231.9	231.5	219.9	223.5	216.2	213.9	214.2	228.9	224	225.6	224.4	216	218.3
Glomerulonephritis	124.3	119.6	130.9	123.7	118	120.2	119	119.7	124.7	114.7	119.8	114.1	105.1	107.7
Other cause	164	163	170.4	164.8	160	166.3	172.3	172.4	182	176	176.6	180.7	171.7	175.6
All	202.5	213.5	216.6	208.7	206.6	207.5	207.9	208.1	218.1	212.7	211.1	209.6	201.2	204.3
ADJUSTED														
0-19	42	50.3	41.7	30.3	46.7	38.2	37.4	55.3	48.1	36.3	43.1	45.9	40.9	44.8
20-44	93.1	93.9	102.6	94.9	89.4	89.3	85.6	84	77.4	78.4	77	76.6	78.4	75.1
45-64	189.2	192.4	186.9	180.1	168.2	161.7	165.4	159.7	157.8	159.7	152.4	147.8	145.1	140.2
65-74	300.2	311.7	300.5	283.6	284.9	282.2	270.3	266.8	279.5	265.6	258.9	256.3	231.5	242.3
75+	401.2	427.6	428.1	407.8	403.6	401.4	404.8	384.2	408	382.7	380.8	378	371.9	371.6
Male	275.2	282.8	278.8	264.3	250.5	248	240.9	237	240.8	230.1	224	217.2	214.8	213.5
Female	249.4	258.7	255	241.2	240.7	234.2	236.3	224.6	231.2	225.9	220.5	220.5	203.8	205.9
White	289	298.8	293.8	276.9	272.9	266.1	262	253.9	258.3	245	237.5	234.6	225.7	225.2
Black	217.8	223.7	227.2	213.6	199.4	197.1	196.2	185.4	195.2	197.9	199.2	189.5	182.3	182.9
Other race	205.3	209.1	166.4	185.1	173.7	184	188.1	195.7	183.7	181.9	159.2	172.2	151.7	162.2
Diabetes	325.2	335.2	320.7	303.9	291.4	288.4	283.2	273.4	275.1	267.6	255.4	248.8	238.3	240.2
Hypertension	226.1	241.6	236	224.6	222.6	212	209.4	202.8	213.1	206.4	206.5	204.4	197	194.4
Glomerulonephritis	202.6	192.4	204.3	191.5	181.5	176.8	176.7	168.1	174.7	160	160.5	154.8	148.4	146.9
Other cause	219.4	220.4	229.6	217.2	212.1	215.9	216.4	212.9	218.5	211.1	208.4	212.3	203.1	205.6
All	262.4	270.7	266.9	252.6	245.3	240.8	238.3	230.6	235.8	227.7	222	218.4	209.2	209.6

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.38

Second-year mortality rates, dialysis

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	101.8	77	44.5	49.4	73.8	120.7	75.2	79.1	90	46.5	24.1	147.5	19.4	77.7
5-9	42.6	58	0	0	33.9	32.8	0	32.8	0	67.4	33.9	0	26.7	27.4
10-14	0	69.2	15	32.3	36.1	30.9	30.3	40.2	28	15.5	0	15.7	69.5	33.6
15-19	25.9	25.8	43.7	25.2	43.4	20.3	25.1	66.5	61.8	41	58.1	53.3	39.8	20.9
20-29	80.4	94.2	89.3	78.6	64.8	60.4	76.6	64.8	67.3	50.2	60.8	61.1	64.6	73.1
30-39	125.1	123.5	133.3	126.4	108.5	118.7	101.7	98.5	94.1	102.5	85.9	88.3	88	75.5
40-49	150.5	129.4	157.5	132.9	140	131.5	122.5	131.4	123.1	112.7	120.1	119.5	112.5	112.3
50-59	184.9	196.4	191.2	188.2	174	168.7	177.8	167.4	165.1	176.3	164	160.3	159.7	151.6
60-64	249.8	253.4	243.7	241.5	225.6	216.1	225.9	214.1	217.5	221.9	205.4	198.9	199	198.7
65-69	280.6	292.1	284.7	267.5	255.4	262.9	260.7	251.1	264.6	256.4	253	240.2	216.8	234.6
70-79	346.3	358.1	347.8	332.8	336.4	332.4	327.4	317.6	337.1	317.9	311.7	319	300.3	303.7
80+	427.1	480.5	500.3	463.9	484.9	458.7	453.6	452.8	473.7	441.9	450.8	440.9	437.7	428.5
Male	241.5	249.8	250.7	239.5	231.7	231.5	227.3	229.2	238.1	228.9	225.6	220.3	219.1	220.7
Female	231	240.5	245.7	233.3	235.6	232.1	236.7	229.2	241	236.8	233.5	237.3	218.8	224
White	277.7	289.3	291.5	278.2	279.3	275.6	275.7	273.5	285	271.8	265.8	264.7	257	259.8
Black	171.8	177	185.6	174.4	165.1	164.7	165.4	157.4	169	172.5	173.4	167.7	160.9	162.7
Other race	181.3	182.1	152.6	165	162.3	170.4	181	193.9	187.1	181.9	164.3	178.6	153.4	168.1
†Hispanic	.	.	.	.	.	.	.	199.5	200.4	191.7	180.7	168.7	175.4	176.1
†Non-Hispanic	.	.	.	.	.	.	.	233.3	244.6	238.1	236.1	237.9	225.3	229
Diabetes	291.6	300.7	292.1	279.6	270.1	270	267.8	262.9	267.7	261.7	250.9	246.1	237.4	241.6
Hypertension	228.2	248	246.8	233.4	237.1	227.7	226.1	224.2	239.7	232.9	235	234.6	225.1	227.3
Glomerulonephritis	167.2	154.9	170.7	158.2	152.6	150.2	146.3	148.3	153.1	139.8	144.3	140.1	128.6	132.4
Other cause	204	202.2	214	202.8	198.9	203.4	209.6	203.9	216.3	208.9	208.6	215	203.9	206.3
All	236.5	245.4	248.3	236.5	233.6	231.8	231.8	229.2	239.4	232.6	229.2	228.1	218.9	222.2
ADJUSTED														
0-19	57.3	85.2	65.2	52.6	87.6	70.3	59.4	113	104.8	74.3	78.4	99.1	81.2	60.2
20-44	131.9	128.3	143.7	129.1	124	119.7	114.2	110.7	99.6	102.1	97.2	96.3	99.4	95
45-64	209.7	211.2	208.3	201.3	186.7	179.2	183.8	176.7	175.6	177.5	168	163	160.9	155.9
65-74	302	314.8	303.5	285.8	288.1	285	275.1	271.1	284.7	270.4	264.8	263	238.3	249.4
75+	401.3	428	428	407.2	404	401.6	405.3	384.6	408.5	382.9	381.1	378.7	372.6	372.5
Male	284.7	292.9	288.3	273.8	259.5	256.2	250.4	245.2	250.1	238.9	231	224.6	223.5	222.6
Female	258.5	266.1	266.3	250.3	251.2	243.7	245.6	233.7	241.4	235.9	230.7	231.3	213.5	215.8
White	301.8	312.1	308	289.9	286.7	278.8	275.8	267.1	273.1	258.5	249.9	247.6	239.5	239
Black	218.9	223.1	228.9	215.7	201.5	199.3	198.2	186.7	196.8	200.5	201.7	192.4	184.4	185.5
Other race	214.8	211.2	173.3	186.4	178.7	187.1	192.6	202.2	188.3	186.5	163.8	177.3	156	166.9
Diabetes	341.1	349.3	335.6	318.1	304.1	301.2	296.8	286.3	288	280.7	266	258.6	249.3	252.1
Hypertension	233.3	250	244.6	232	230.7	219.6	217.5	210.1	221.8	213.6	214.2	212.7	204.9	202.4
Glomerulonephritis	208.6	193.7	209.9	194.8	187.5	179.1	178	173.5	179.4	164.3	164.7	161.6	153.1	153
Other cause	227.2	228.2	240.1	225.7	222.9	225.1	227.6	220.2	228.5	220.7	218	223.8	214.1	214.5
All	271.9	279.8	277.5	262.1	255.4	250	248	239.5	245.8	237.3	230.7	227.6	218.6	219.2

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.39

Second-year mortality rates, hemodialysis*per 1,000 patient years at risk, incident patients by modality & demographic characteristics*

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	336.5	287.7	133.5	405.5	470	.	.	405.5	.	.	.	287.7	.	117.8
5-9	154.2	.	.	.	.	.	.	95.3	.	95.3	.	.	.	.
10-14	.	.	.	35.1	54.1	30.8	.	26.7	36.4	35.1	.	.	81.7	19
15-19	29.4	22.8	38.1	23.1	37.4	10.9	35.2	76.8	68.7	31	65.5	63.8	40	26.8
20-29	81.2	93.7	84.6	78	66.6	61	80.2	65.9	63	47.4	60.2	67	61	73.2
30-39	122.3	121.8	133.6	126.1	109.1	118	102.4	100	92.6	100.6	82.3	89	86	79
40-49	144.7	133.8	153.7	128.2	132	124	120	131.4	119.8	111.1	117.5	119.9	112.1	111.3
50-59	183.7	195.1	182.9	180.8	165.9	155	170.2	160.8	159	173.5	163.9	156.6	156.5	152
60-64	239.8	244.3	231.3	225.5	220.1	204.1	212.4	205.6	209.8	215.2	201.8	197.5	197.3	199.9
65-69	272.3	294.1	273.3	251.6	243.2	262.7	252	244.2	254.7	249.2	247	236	216.2	232.5
70-79	333.6	351.1	336.3	323.6	328.5	320.3	314.4	311.3	335.1	312.4	304.9	313.1	298.9	298.9
80+	417.9	485.9	488.7	441.4	468.9	444.4	439.2	450.7	470.3	442.6	445.1	435.9	437.6	422.9
Male	238.8	251.5	245.9	233.1	229.4	226.4	221.1	226.9	235.6	226.4	222.2	218.2	218	221.8
Female	229.4	245.4	242.7	229.7	232.5	227.6	234.4	228.5	240.5	236.6	234.1	237.8	221.9	224
White	280.5	296.3	290.5	275.8	278.9	274.9	272.2	275.5	285.3	270.7	264.8	264	259.3	261.2
Black	169.2	181.1	184.9	172.2	164.9	158.9	165.5	156.9	169.7	174	174.3	168.4	162.1	164
Other race	168.2	190.2	149.4	163.9	167.2	176.5	176.7	192.8	187.5	181.3	163.7	184.5	153.7	169.2
†Hispanic	.	.	.	.	.	.	.	196.8	196.3	192.1	176.2	169.9	174.5	177.2
†Non-Hispanic	.	.	.	.	.	.	.	231.9	243.4	236.4	235	236.8	226.5	229.5
Diabetes	279.3	295.4	279.4	263.8	259.4	257.2	254.2	254.2	260.4	254.8	244.9	242.8	234.9	239.8
Hypertension	226	249.7	243.9	228.1	232.8	223.4	224.2	222.8	238.7	231.7	233.9	230.7	225.7	228.4
Glomerulonephritis	171.3	168.9	171.2	162.5	159.8	150.9	148	158.8	157	141.8	150.6	146.8	131.5	134
Other cause	212.3	212.2	219.9	212.3	206.6	209.2	216.6	209.3	222.9	216.8	210.9	218.4	210.4	209.1
All	234.3	248.7	244.3	231.5	230.9	227	227.4	227.6	237.9	231.1	227.6	227.2	219.8	222.7
ADJUSTED														
0-19	78.5	49.9	73.5	62.7	115.3	28.1	57.4	157.9	128.6	75.5	110.5	119.1	93.2	56.6
20-44	130.7	131	145.8	130.3	122.4	118.9	116.4	112.1	97.2	101.3	96.5	98.8	97.9	97.1
45-64	206.5	210	200.7	193.9	182	168.8	176.9	173.4	171.7	175.4	167.6	162.1	160.1	157.5
65-74	292.7	312.4	295	275.3	278.6	281.4	266.6	264.2	281.5	265.5	259.9	259.4	237.3	247.1
75+	388.7	429	414.7	391.9	396.8	388	390.9	383.9	404.1	380	374.6	373.7	373.2	367.7
Male	277	289.8	279.3	263.8	253.7	248.2	241.4	241.5	246	235.3	226.9	221.8	221.6	222.4
Female	250.6	265.8	257.5	240.8	242.6	234.5	238.5	229.6	237.8	232.9	228.7	229.6	214	213.9
White	294.9	309.2	297.4	278.7	278.2	271.1	265.5	263.7	268.3	253.6	245.3	244.1	238.6	237.5
Black	210.7	223.2	223.6	208.5	196.9	188.8	195.1	183.3	195.3	200.3	201.1	191.5	183.9	185.6
Other race	195.2	215	164.7	179.9	178.2	187.2	183.3	196.6	185.8	182.9	162.1	179.9	154.4	165.6
Diabetes	323.9	341.1	319.3	297.9	290.8	285.6	280.5	276	279.3	272.7	259.2	254.7	246.2	249.7
Hypertension	229.9	250.3	241.2	226.9	225	216.1	215.1	209.8	221	212.8	213.3	209.4	205.3	203.1
Glomerulonephritis	207.6	202.8	204.2	192.4	190.5	173	174.2	182.3	179.9	162.7	168.2	165.8	153.9	152.2
Other cause	229.5	232.6	239.3	229.2	224	224.5	228.6	220.5	230.5	224.8	217.2	224.3	216.4	213.4
All	263.9	277.9	268.4	252.1	248.1	241.3	239.8	235.5	241.9	234	227.5	225.3	217.8	218.2

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.40

Second-year mortality rates, CAPD/CCPD

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	.	80	.	36.4	.	75.6	130.1	70.2	134.5	64.5	29	121.4	27.4	78.4
5-9	.	115.5	.	.	.	74.1	.	.	.	.	51.3	.	48.8	48.8
10-14	.	148.5	.	48.8	46.5	.	44.5	64.5	28.2	.	.	42.6	36.4	22
15-19	24.7	23.5	.	21.5	99.9	33.9	.	58.6	29.9	94.4	30.8	.	49	.
20-29	83.5	99.8	100.8	62.5	60.2	66	42.9	65.3	86.3	47.1	70.4	15.4	96.1	61.2
30-39	124	122.8	113.7	128.6	99.3	112.8	69.6	84.2	104.9	100	83.4	65.2	86.7	44.6
40-49	170.1	112	177.9	126.1	139.3	141.5	128.8	119.8	117.3	107.6	132.7	107.2	99.2	98.2
50-59	205.2	208.7	226	198.2	170.8	199.4	193.6	178.2	186	170.1	164.9	171.3	173	128.1
60-64	272.7	327.3	298.9	283.6	222.2	230.3	266.3	256	214.6	272.1	208.6	207.2	181.7	182.8
65-69	349.2	298.1	346.4	325.4	274.1	240.8	267.3	272.8	333	255.9	288.7	269.1	185.3	251.1
70-79	458.8	452	356.3	356.9	374.6	375.4	384	372.6	337.7	354.8	364.9	392.6	290.1	348.7
80+	414.4	533.3	536.8	604.2	556.8	589.8	659.8	464.3	557.5	400.9	524.8	446.3	445.9	541.9
Male	240.6	244.8	249.8	226.2	193.2	210.9	211.2	209.7	211	214	209.6	191.2	194.7	171.5
Female	215.8	208.7	207.6	195	201.7	201.2	206.8	190.9	203.3	185	191.1	197.8	160.7	185.9
White	254.3	270.3	259.8	240.8	230.2	231.3	245.8	224	241.7	227.4	230	220.7	208.2	217.8
Black	171.7	137.3	170.2	150.4	134.6	167.2	129.1	143.9	126.3	141.3	138.5	139.7	117.6	99.4
Other race	180.4	74.6	133	127.3	100.1	90.5	164.9	179	146.7	141.2	108	126.2	104.3	109.2
†Hispanic	.	.	.	.	.	.	.	152.8	192.5	118.6	186.5	141	135.5	120.8
†Non-Hispanic	.	.	.	.	.	.	.	206.9	209.1	210.5	202.7	202	183.4	186.2
Diabetes	318.2	335.7	334	307.2	287.4	276.3	294.3	272	278.9	272.6	270.4	242.6	226.6	214.3
Hypertension	232.2	226.3	204.4	197.4	203	197.4	197.1	195.2	188.1	187.7	196.6	214.5	191.2	177.8
Glomerulonephritis	149.5	102.3	135.4	110.4	75.2	120.1	97.5	90.4	100.5	101.9	84.6	80.5	80.9	94.1
Other cause	152.3	152.5	147.9	130.7	115.8	147.7	135.5	141.4	160.5	124.3	136.8	154	132.6	156.7
All	228.9	227.7	230.7	211.5	197.2	206.3	209.1	200.8	207.3	200	200.9	194.2	178.2	178.3
ADJUSTED														
0-19	19.7	156	0	51.1	85.7	81.5	81.2	97.1	87.1	88.3	47.6	81	72.8	63.2
20-44	132.1	121.3	138.8	119.8	113.7	115.6	88.4	102.5	107.4	103.4	88.3	63.3	98.9	72
45-64	226.2	227.2	237.8	205.5	178.9	195.2	194.6	174.7	173.4	174	166.1	163.3	154.8	128.9
65-74	390.6	356	329.5	319.7	307.3	281.7	282.9	299.9	293.1	283.9	300.1	293.2	221.7	278.8
75+	504.8	521.8	487.4	506.9	449.6	513.9	581.6	439	489.4	383.9	443	454.3	363.2	434.6
Male	339.5	350.2	349.5	312.2	259.5	278.3	274.5	269	256.8	257.4	249.5	226.9	225.5	206.7
Female	326.7	296.9	297.1	282	284.8	283.7	282.7	254	275.2	243	251.9	262.9	206.7	233.2
White	363.4	377.9	358.9	328.6	305.5	302.5	317.2	282.5	296	273.8	277.9	263.1	244.4	253.7
Black	287.2	232.2	276.7	249.1	217.7	269	194.1	224.6	198	210.1	208.5	210.5	170.6	143.9
Other race	271	113.3	219.3	208.2	147.9	151.2	234.9	233.7	197.4	199.2	139	196	133.2	145.1
Diabetes	438.3	451.1	451.1	415	377.8	361.9	381.2	347.6	345.1	336.1	333.9	298.7	273	261.5
Hypertension	276.3	268.9	246.7	227.5	238.8	226.4	223.2	211.7	201.2	194.1	203.1	230.4	192.4	181.9
Glomerulonephritis	240.7	171.5	212	189	118.5	192.3	151.9	136.4	157.3	159.6	134.7	118.9	121.6	143
Other cause	222.7	222	221.9	197.8	174.1	218.5	198.2	212.4	232.1	184	189	219	185.5	229.8
All	332.8	324.6	325.8	297.7	270.7	279.8	277.6	261.6	263.9	250.1	249.6	241.2	216.2	218.5

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.41

Second-year mortality rates, transplant

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	.	.	.	.	.	18	.	27	36.8	16.5	13.6	.	12.1	13.2
5-9	.	.	10.6	.	23.5	.	10.8	10.7	15	.	.	.	.	.
10-14	.	.	.	.	7	6.6	6.8	.	.	.	.	.	15.9	15.4
15-19	4	7.5	4.2	22.2	7.7	15.2	6.6	15.6	8.5	4.6	7.2	4.4	8.7	.
20-29	9.5	9.8	11.7	14.7	10	5.4	8.2	10.3	9.6	6.9	9	8.2	12.5	11.7
30-39	20	16.8	20	16.4	15.2	17.1	15.5	16.3	15.7	13.7	15.2	16.6	15.8	13.6
40-49	31.2	28.4	21.7	25	22.3	30.3	18.1	25.7	16.9	21.2	18.5	17.9	26	18.3
50-59	43.1	31.1	26.2	35.1	35.2	39.4	32.1	36	28.1	28.5	25.7	31.3	35.1	30.7
60-64	72.9	43.7	45.4	43.8	45.7	52.4	45.6	39.4	32.2	42.1	35.5	42.1	46.7	51.6
65-69	54.9	52.5	52.5	56.7	46	62.6	77	50	59.9	50.9	52.6	65.3	43.1	64.3
70-79	36.4	83.4	77	76	104	78.5	61.6	76.2	54.8	64.5	66.1	73.9	72	51.4
80+	.	.	.	.	693.1	.	.	.	.	405.5	223.1	.	.	251.3
Male	28.9	22.6	23.7	24.8	24	29.3	24.6	24.9	23	25.5	24.4	28	30.3	30
Female	22.8	22.9	19	25	22.6	24.7	20.7	28	20.5	20.3	19.7	23.7	27.4	24.5
White	24.1	21	22	21.8	23.1	26	21.8	25.7	21.6	20.7	19.8	23.3	28.6	28.5
Black	37.4	30.7	22.7	33.9	28.2	33.8	27.4	31.9	22.6	32.5	31.3	34.6	33.1	26.8
Other race	19.9	16.6	12.9	34.3	8	20.5	21.5	6.6	23.7	20.7	20.2	29.3	18.1	21.9
†Hispanic	.	.	.	.	.	.	.	16.8	18.4	11.9	12.9	18.1	21.3	23.7
†Non-Hispanic	.	.	.	.	.	.	.	27.1	22.4	25	23.8	27.4	30.3	28.4
Diabetes	42.3	37.2	36.5	43.4	36.1	36.8	38.4	39	36.8	37.1	34.8	41.6	44.6	43.7
Hypertension	31.1	27.5	26.6	29.2	34.3	24.8	25.1	31.6	19.1	26.4	26.5	34.2	30.4	28.9
Glomerulonephritis	14.7	12	13.5	14.2	12.8	18.4	15.1	18.2	14	12.2	15.5	14.6	20	16.7
Other cause	23.1	19.2	14.7	17.2	14.9	28.9	14.7	16.9	16.9	17.5	14.6	16.5	20.4	19.4
All	26.5	22.7	21.8	24.9	23.5	27.5	23.1	26.1	22	23.4	22.5	26.3	29.1	27.8
ADJUSTED														
0-19	1.7	3.5	3.4	9	8	10.3	5.9	11.3	10.6	3.6	4.7	1.9	9.1	5.2
20-44	22.9	22.1	21.1	24.2	18.2	18.9	17	20.3	16.1	16.7	19.6	18.7	20.5	16.9
45-64	54.3	38	34.6	36.8	38.5	46.1	34.3	37.7	29.9	32.4	27.4	32.8	39.7	35.4
65-74	62.4	70.7	62.2	65.6	67.8	75.1	77.9	59.2	62.8	59.6	61	66.1	50.5	64.3
75+	62.4	70.7	62.2	65.6	67.8	75.1	77.9	59.2	62.8	59.6	61	66.1	50.5	64.3
Male	89.7	66.9	68.1	69.3	65.4	77.2	62.4	60.7	54.7	58	54.7	60	63.8	60.8
Female	75.6	75.2	59.7	75.5	66.5	70.4	58.5	74.7	53.9	51.9	50.1	57.1	63.9	54.7
White	77.9	64.6	65.8	62.7	65.6	71.1	57.7	65.1	53.9	48.8	46.4	51.3	62.1	59
Black	101	83.2	59.5	87.2	68.1	81.7	64.4	72.2	49.7	71	67.4	73.2	67.5	53.5
Other race	51.1	41.8	32.8	85.3	19	43.9	54.4	13.4	49.3	42.5	38.3	54.3	33.2	39.2
Diabetes	99.9	84.8	80.2	92.8	76	74.9	75.7	74.5	68.3	67.1	60.9	70.4	74.3	70.6
Hypertension	63.1	53.6	52.6	55.3	64.4	46.5	45.8	55.8	32.8	44.5	44.1	55.7	47.9	44.4
Glomerulonephritis	47.2	37.3	41.1	42.2	38.7	53.2	42.3	49.3	37.3	32.5	39.6	36.2	48.5	39
Other cause	67.2	55.2	41.5	46.8	40.8	78.1	38.9	43.1	41.3	41.9	35.2	37.3	46.2	43.2
All	83.2	69	64.1	70.8	64.9	73.6	60.1	65.1	53.6	54.9	52.2	58.1	62.8	57.6

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.42
Third-year mortality rates, ESRD

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	34.7	10.7	12.9	9.5	39.2	58.3	12.4	20.8	36.4	44	12.7	25.3	30.2	10.9
5-9	12.9	0	19	0	11.3	11.3	16.9	10.7	33.5	0	0	0	34.7	23.8
10-14	17.3	6.5	6	25.8	22.2	27.1	30.2	10.2	15.4	11.1	0	5.9	5.3	12
15-19	22.7	27.7	23	11.1	14.6	15	13.1	29.3	17.9	33.7	19.8	24.5	23.5	28.9
20-29	38.8	42.6	43.2	40.9	39.7	39.8	40.4	44.7	36.8	32.4	36.7	43.7	41.3	47
30-39	74.8	72.8	73.4	78.7	81.4	72.1	69.4	71.3	63.1	70.1	62	66.8	62.2	64.8
40-49	104	115.4	115.9	106.2	111	107.6	104.2	103.6	100.9	102.8	104.9	98.8	107	96.3
50-59	174.8	172.8	170.4	171.7	181	162.8	168.2	164.7	163.5	157.3	152.6	153.5	147.4	141.9
60-64	226.8	235	240.3	228.5	237	233.5	218.2	218.8	223.1	200.7	199.7	210	197.2	198.6
65-69	271.5	291.3	295.8	285.4	286.7	277.1	268.9	256.7	270.5	255.3	251.6	248.5	238.9	239.9
70-79	350.2	346.6	368.7	349.3	366	340	353.9	346	337.4	335.6	337.2	328.7	309.2	303.7
80+	511.3	497.2	508.9	503.4	480.4	495.8	507.3	506.8	455.8	480.7	502.3	486	453.2	458.5
Male	182.7	182.6	194.5	190.2	205.9	193.8	198.3	193.3	197.2	202.3	198.4	200.6	195.6	194.1
Female	180.7	201.1	204.3	205.6	206.2	204.9	208	211.4	212	205.3	212.2	212.6	201.9	198.8
White	201.9	208.9	221.3	219.3	231.7	222.6	230.1	226.3	231.5	229.6	229	234.3	225.1	221
Black	147	161.5	163.1	163.2	166.3	161.8	162.3	162.2	159	159.8	166.5	160.9	154.7	156.7
Other race	156.9	153.3	150.6	146.5	154.8	159.9	145.2	176.1	179.6	190.6	174.7	164.8	159.7	159.3
†Hispanic	.	.	.	.	.	.	.	.	181.8	176.4	171.8	179.3	154.5	160.2
†Non-Hispanic	.	.	.	.	.	.	.	.	207	207.3	209.3	209.9	206	201.6
Diabetes	250.1	259.6	257.4	259.2	259.7	256.7	247.9	253.2	250.6	246.8	247.5	246.8	236.3	224.9
Hypertension	195.7	201.6	212	213.5	221.5	213.3	225.1	212.6	211.9	217.3	215.9	216.2	208.4	216.8
Glomerulonephritis	104.1	115.9	119.9	111.2	117.6	110.3	110.7	112.9	120.7	107.4	113.8	119.9	102.4	103.1
Other cause	147.3	141.4	156.8	139.6	157	139.3	149.2	149	153.7	155.2	153.6	152.3	154	154.7
All	181.8	191	199	197.3	206	198.9	202.8	201.7	204	203.7	204.7	206.1	198.5	196.2
ADJUSTED														
0-19	38.2	30.8	30.8	23	32.8	40	31.5	37.2	37.2	43.1	19.3	28.6	35.9	37.1
20-44	81.6	79.3	83	81.6	83.6	79.2	79	80.2	70.6	74	70.4	73.9	76.6	72.4
45-64	190.7	192.9	190.9	183.4	190.6	177.5	170.9	168.8	168.7	158.3	156.4	157.1	150.1	147.4
65-74	303.8	316.4	322.2	313.1	311	297.5	301.9	286.5	284	282	277.6	268	254.3	247.3
75+	442.8	418.9	455.6	418.9	445.2	422.5	430.2	433.2	414.3	407.4	418.9	410.9	384.3	390
Male	284.1	269.4	282.8	267	285	260.4	260.2	251.7	245.5	245.4	237.7	233.5	226.1	223.9
Female	250.7	266.8	265.7	258.6	253.8	248.7	247	245.7	240.1	227.4	232.8	230.9	215.5	210.8
White	299.3	292.1	304.7	290.1	297.8	278.5	279.6	270.3	263.9	255.4	250.4	250.4	238.4	232.3
Black	212	228.2	226.2	220.2	224.2	215	213	210.2	203	200	207.9	200.8	189.8	190.9
Other race	242.5	224.7	211.4	196.7	203.9	205.7	182.2	210.8	211.6	211.3	200	180.6	171.9	177.1
Diabetes	342.4	344.4	335.3	329.2	324.4	313.8	299	299.9	290	281.2	280.1	274.9	260.6	246.2
Hypertension	233.1	231	239.7	234.4	243.9	229.6	238.9	224.9	216.7	218.4	213.9	213.3	204.3	212.5
Glomerulonephritis	192.1	209	213.1	189.2	200.6	185.7	178.5	182	185.4	164	174	176.7	150.3	157.6
Other cause	216.1	203.3	228.7	203.2	223	198.7	208.4	202.9	204.4	200.3	198.8	193.2	193.7	196.5
All	267.3	267.7	274.2	262.6	269.1	254.3	253.3	248.4	242.5	236.4	235	231.9	220.7	217.3

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.43

Third-year mortality rates, dialysis*per 1,000 patient years at risk, incident patients by modality & demographic characteristics*

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	91.3	.	48.8	51.3	69.5	171.5	37.7	39.2	74.3	139.8	.	.	.	60.6
5-9	87	.	100.6	.	60.6	69	91	.	54.1	.	.	.	44.5	80
10-14	39.2	26	24.7	96.3	47.7	88.8	109.7	45	30.8	29.9	.	29.9	.	.
15-19	45.8	67	49	23.8	18.9	21.4	31.8	48.5	25.3	37.8	38.2	47.8	43.3	61.8
20-29	73.6	81.1	80.9	73.9	75.2	67.4	72.6	62.3	60.7	52.3	62.3	62.3	58.5	71
30-39	118.8	121	118.9	126.3	128.6	110.9	106.2	108.1	89.2	98.9	84	91.2	84.6	87.5
40-49	145.1	164.7	157.5	149.7	157.1	143.6	138.1	133.8	128.3	128.4	131.3	123.1	134.2	121.9
50-59	208.2	203.1	200.7	200.5	213.2	190.4	198.6	191.6	189.5	182.4	175.8	175.6	170.5	163.4
60-64	244.9	252.9	257.5	249.4	256.8	253.1	234.2	241	242.9	219.1	215.4	227.8	216.9	220.3
65-69	276.6	299.5	306.4	295.2	294.8	286.2	278.1	266.5	279.4	265.3	263.9	262.8	252.5	256.1
70-79	351.4	347.4	370.6	351	367.1	341.7	356.5	349.4	340	338	340.6	332.4	314.1	307.6
80+	511.3	497.2	510.2	503.4	480.4	496.3	507.3	507.2	455.4	481	503	486.1	453.7	458.8
Male	246.2	243.5	253.9	246.1	262.5	244.1	244.9	237.2	236.9	239.5	233.5	233.5	227.7	226.7
Female	225.5	248.1	248.2	248.7	248	241.5	245.4	245.5	242.9	234.9	241.7	241.3	229.9	225.3
White	285.1	290	303	296.4	308	290.6	296.5	288.5	287.9	284.2	279.7	282.6	271.2	267.3
Black	166.9	182.8	180.7	180.9	185.3	178.6	177.9	176.8	171.8	170.4	178.2	172.1	166	166.7
Other race	197.7	206.8	187.5	186	187.8	193.2	170.3	201.9	204	211.4	197.5	183.5	179.2	179.6
†Hispanic	.	.	.	.	.	.	.	.	208.7	203.9	197.2	200.5	175.6	181.5
†Non-Hispanic	.	.	.	.	.	.	.	.	244.1	241.8	243	242.5	238	232.8
Diabetes	311.2	318.9	307.8	306.3	307.5	296.2	285.3	286.9	282	274.6	273.6	270.9	259.3	246.7
Hypertension	223.9	229.2	240	240.4	249.6	239.9	249.3	233.8	230.2	234.2	232.8	232.3	226	233.7
Glomerulonephritis	162.7	184.3	180.3	164.5	174.8	159	158.6	158.9	165.4	147	156.5	163.1	138.7	143.9
Other cause	204.5	197.7	221.1	201.6	214.9	188.9	203.7	200.3	199.5	201.7	198.7	196.1	198.5	199.3
All	236	245.7	251.2	247.3	255.4	242.8	245.1	241.2	239.8	237.3	237.3	237.1	228.7	226
ADJUSTED														
0-19	96.3	86.1	96.7	73.4	60.2	96.9	101.2	84.1	59.9	85.2	48.3	66.7	58.6	95.4
20-44	132.5	134.5	137.3	136.7	139	126.9	125.3	120	104.5	108	101.2	103.4	107.9	101.4
45-64	228.1	229.3	223.6	217.6	228.9	209.7	203.1	200.9	199.8	186.3	182.9	183	175.8	174
65-74	306.8	321.5	329.7	320	316.7	304.3	309.4	294.8	290.9	289.9	287.4	278.5	265.3	258.4
75+	443.3	418.5	456.2	418.7	445.3	422.7	430.8	434	414.5	407.9	419.6	411.8	385.7	391.7
Male	310.1	294.9	308.1	290.8	310.2	282	281.1	271.5	262.8	261.8	254	248.7	241.1	240.4
Female	268.1	285.6	284.2	278.3	273.5	265.7	266.1	262.7	255.8	243.4	248.8	246.3	231.2	226.5
White	328.1	320.2	333.9	318.8	327	303.4	306.5	295.1	286.7	278.3	272.4	271.7	259.3	254.7
Black	218.8	236.7	232.8	227	232.7	222.5	220.2	216.4	208.4	204	213.2	205.8	195.4	195.7
Other race	251.6	245.6	221.5	210.5	215.5	216.9	190.2	221.3	220	218.6	208.6	188.6	181.4	187.2
Diabetes	380.4	380.4	367	360.1	357.6	340.9	325.9	325.3	315	303.6	301.7	294.8	279.4	265.5
Hypertension	245.5	244.5	253.9	248.4	258.9	245	253.5	237.3	227.2	229.2	224.8	223.8	216.6	224.4
Glomerulonephritis	209.3	232.5	230	204.9	219	198.6	192.9	196.7	198.2	176.2	189.9	192.6	163.8	175.6
Other cause	236	222.5	252.6	228.2	242.8	214.8	229.4	223.7	219.7	217.7	215.7	209.6	210.9	214.9
All	289	290.4	296.4	284.7	291.8	274	273.7	267.2	259.4	252.9	251.4	247.4	236.3	233.6

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.44

Third-year mortality rates, hemodialysis

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	287.7	.	.	.	.	405.5	.	223.1	.	182.3	.	.	.	.
5-9	.	.	.	.	.	.	117.8	.	154.2	.	.	.	.	223.1
10-14	105.4	44.5	46.5	174.4	93.2	.	129.9	.	69	.	.	69	.	.
15-19	50.2	75.8	46.8	21.7	28.5	18.7	34.9	40.7	28.1	27.3	15.9	32.9	27.3	72.8
20-29	78.7	82.2	72.9	65.7	69.3	64.9	70	59.3	57.8	54.8	65.8	60.1	50.5	72.4
30-39	107.1	116.6	119.3	123.2	121.9	107.5	94	107.8	88.5	101.4	85	90	84.5	89.3
40-49	135	158.8	143.9	141.7	141.2	128.8	135.6	132	124.3	125.7	127.9	120.8	132.3	122.1
50-59	206	200	195.1	186	207.9	176.1	189.9	182.5	183.1	172.3	170.9	171.8	168.7	161.2
60-64	227.8	254.6	250	245.1	243	238.7	223.1	226.5	234	214.9	211.3	221.7	208.9	217.4
65-69	261.7	293.4	294.7	279.9	284.9	272.9	261.3	255.1	273.8	260.7	253.8	254.9	248.5	246.5
70-79	342.3	347	361.3	335	351.8	332.9	344.8	343.6	339.5	332.7	338.1	328.5	310.7	301.3
80+	512.7	498.8	505.2	488.7	474.7	487.1	480.9	495.6	448.6	469	504.3	479.2	449.9	457.7
Male	236.5	247.6	248.1	238.9	254.6	233	234.1	230.5	233.2	233.7	228.6	229.1	223	222.5
Female	223.6	248	247.2	242.2	244	239	242.4	245.7	244.4	235.9	244.5	241.3	232.1	226.9
White	278.3	296.8	302.8	293.6	304	281.6	289.3	286.5	287.6	282.8	280.6	281.4	270.9	266.4
Black	167.9	185.4	178.6	175.8	183	178.8	176.5	176.3	174.6	170.9	177.5	171.5	165	166.9
Other race	200.1	201.7	195.3	183.5	193.7	196.3	172.5	200.5	206.1	209.3	192.5	182.5	180.7	177.9
†Hispanic	.	.	.	.	.	.	.	.	204.7	203.7	194.6	197.6	174.8	181.3
†Non-Hispanic	.	.	.	.	.	.	.	.	243.4	239	241.8	240.3	236.4	231.2
Diabetes	303.3	316.3	295.1	290.4	296.3	278.9	271	277.5	273.7	268.8	267.1	266.2	256.1	242.2
Hypertension	218	229.4	238.7	235.3	238.2	234.9	241.5	226.2	228.7	232.1	235.7	228.2	226.4	231.5
Glomerulonephritis	163	187.8	183.1	163	183.8	155.3	159.4	166.3	169.9	143.7	155.7	166.8	137.9	141.7
Other cause	195.1	205.5	222.2	200.7	214.7	193	203.4	206.3	208.4	202.8	199.9	196.7	194.1	204.4
All	230.2	247.8	247.7	240.5	249.4	235.8	238.1	237.8	238.5	234.8	236	234.7	227.1	224.5
ADJUSTED														
0-19	130.4	127.3	92.8	84.3	80	52.1	123.1	85.1	83	65.5	28.8	72.1	44.3	138.4
20-44	122.7	132.1	132.4	135.7	130.5	118.9	120.6	121	104.5	112.1	100.6	102	105.8	103.3
45-64	221	228.7	216.7	207.5	221	196.9	195.4	192.2	194.7	180.2	180.2	180.4	173.5	173.1
65-74	292.7	315.5	318.6	307.8	306.6	292.6	295.2	288.3	287.8	285.5	282	273.3	264.4	250.9
75+	438.6	424.7	450.3	398.5	430.5	418.2	416.6	424.8	413.9	401.1	418.9	407.1	379.9	388.4
Male	295.4	295.6	296.5	278.7	298.9	266.3	266.4	261.5	258.1	254.3	248	243.5	235.6	235.4
Female	260.2	278.8	277.1	264.9	262.4	257.1	257.8	257.7	253.3	241.3	248.8	243.7	231.2	225.5
White	311.2	316.9	323.2	305.5	313	286	291.4	285.7	281.1	271.9	269.2	266.8	256.3	250.8
Black	216	235	225	215.9	225.1	218.2	214.5	212.4	208.6	202.2	210.4	203.5	192.4	194.3
Other race	253.4	234.9	225	202.3	215.9	213.8	186.4	213.1	216.9	213.1	200.8	185.8	179.6	183.1
Diabetes	368.9	374.4	349.9	339.8	342.6	319.5	308.3	313.4	305.3	296.5	294.2	289.5	275.8	260.3
Hypertension	238.6	244	251.7	241.8	247.2	238.2	246.2	228.9	226.9	227.6	228.3	219.8	216.9	222.3
Glomerulonephritis	204.9	230.6	224.7	196.8	221.9	190	187.1	199.2	201.4	168.5	184.7	193.2	160.1	170.4
Other cause	221.4	225.5	247.9	221.1	236.3	213	222.7	224.4	224.3	215.1	213.5	207.7	204	217
All	277.6	287.3	286.9	271.8	280.2	261.7	262.1	259.5	255.7	247.9	248.2	243.5	233.4	230.5

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.45
Third-year mortality rates, CAPD/CCPD

per 1,000 patient years at risk, incident patients by modality & demographic characteristics

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	.	.	95.3	105.4	.	117.8	46.5	.	87.3	154.2	.	.	.	105.4
5-9	223.1	.	95.3	.	.	.	95.3	.	.	.	.	.	69	.
10-14	.	.	.	.	.	200.7	.	105.4	.	64.5	.	.	.	.
15-19	57.2	72.8	77	51.3	.	54.1	.	33.9	26.7	77	75.9	139.3	95.7	33.9
20-29	67.8	84.2	100.1	98	84.4	71.8	42.9	69.5	68.4	57.3	42.5	118.2	87	81
30-39	141.8	131.4	112.2	118	156.8	140.3	130.4	100.9	89.9	66	62.4	82.4	82.8	57.8
40-49	201.2	201.8	208.7	175.6	214.8	174.7	149.6	135.9	151.5	139	142.5	110.2	155.2	132
50-59	236.1	229.4	206.9	261.2	217	244.6	235.4	217.7	216.5	251.4	190.3	203.4	167.7	171.5
60-64	372.2	263.5	305	252.8	282.7	296.5	237.2	289.9	260.6	222.2	229.8	300.2	262.5	229.1
65-69	310	376.1	343	354.9	314.9	342.7	375.4	273.9	277.8	339.1	375.5	359.3	304.7	346.3
70-79	344.5	452	518.8	411.3	498.3	348.3	438.1	353.3	358.5	419.6	372.4	402.4	356.9	349.8
80+	570.5	777.7	452	418.7	517.9	599.6	806.5	778.7	617.2	621.2	679.5	573.8	490.2	433.2
Male	270.2	244.5	266.5	246.2	269.6	253	258.3	229.6	234.1	265.6	257	237.4	250.1	237.8
Female	210.4	243.6	228.2	228.4	221.7	228.7	218.6	205.9	196.7	197.3	186.4	222.8	166.8	183.9
White	283.2	282.9	287.5	272.6	294.9	284.4	284.1	249.8	254.5	267.1	247	259.4	237.4	233
Black	151.8	159.1	177.1	172.3	161.7	162.8	159.6	160.8	142.8	151.4	158.8	174.8	157.5	162.6
Other race	182.8	258.8	114	157.3	114.1	182.7	140.3	175.1	153.1	236.2	224.3	163.3	166.1	195.8
†Hispanic	.	.	.	.	.	.	.	.	204.2	163.3	175.4	197.3	162.8	162
†Non-Hispanic	.	.	.	.	.	.	.	.	217.3	241	228	235	218.5	217.3
Diabetes	366.9	362.8	354.3	344.4	327.5	349	338.5	318.4	314.8	302.1	307.7	311.6	268.6	267.6
Hypertension	236	251.1	237.4	218.5	277.4	224	247.1	216.1	200.1	238.9	183.8	229.1	194.9	204.5
Glomerulonephritis	144.4	143.1	148.7	128.4	107	162.4	127.1	109.7	116	136.5	140.3	109.8	101.7	149.7
Other cause	178.2	160.4	184.6	180.7	191	136	145.5	120.9	114.6	160.8	146.4	155.1	193.2	141.8
All	241	244.1	247.6	238	246.2	241.4	239.2	218.1	215.7	232.5	221.5	230.5	210.8	211.2
ADJUSTED														
0-19	73.9	49	117	65.4	0	148.9	44.6	71.5	46.4	125.3	46.5	75.5	71.7	54.4
20-44	167.5	153.9	144.5	126.5	168.9	158	124.6	107.6	108.7	80.3	95.1	107.7	127	89
45-64	288.5	250.3	257	260.5	243.7	250.9	227.9	225.3	213.7	221.3	187.4	201.8	180.5	178
65-74	342	438.2	421.6	366.8	372.4	352.1	394.8	293	306.5	376.1	361.4	364.3	307.4	317.4
75+	466.8	554.8	548.7	518.3	641.1	432.7	621.5	559	477.6	496.4	491.8	479.4	444.4	437.1
Male	408.7	358.3	399	354.4	383.1	347.5	356.4	308.8	309.8	336.9	319.6	290.1	303.9	281.4
Female	344.7	391.9	341.6	344.6	337.4	339.1	323	296.3	274.3	278.7	253.6	306.7	230.9	238.8
White	432.3	422.2	418.4	387.9	413.8	387.2	387.6	333.5	327.6	336.7	306.2	319.4	288.4	275.9
Black	276	272.2	305.3	287.7	274.8	267.6	262.3	247.9	230.2	242.9	241.4	269.1	245.6	236.6
Other race	311.8	398.9	176.3	253.2	194.5	263.5	231.3	263.2	211.1	335.1	325.7	219	263.2	254.5
Diabetes	528.4	515.9	495.5	475.5	449.5	472.2	454.9	420.3	410.1	387.3	388.2	392.7	337.8	327.8
Hypertension	301.4	316	296.3	276.8	341.1	273.7	300.3	260.5	231.7	268.8	195.5	247.4	223.4	215.3
Glomerulonephritis	246.7	235	251.8	198.6	186.3	253.4	209.1	173.6	172.9	218	226.7	178.3	148.3	227.1
Other cause	263	236.5	266.2	270.5	287.4	200.7	216.9	177.6	172.1	229.3	218.8	213	277.5	193
All	378.2	372	370.5	349.4	360.7	342.8	339.7	302	292.3	309.2	287.2	296.2	270.3	261

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded.

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

." Zero values in this cell.

Table H.46

Third-year mortality rates, transplant*per 1,000 patient years at risk, incident patients by modality & demographic characteristics*

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	.	14.4	16.3	.	14.2	.	.	.	.	12.6	16.8	.	32.8	.
5-9	.	.	.	.	12.7	.	.	10.9	32.8	.	.	14.6	17.1	.
10-14	.	7.3	.	.	14.8	.	.	.	.	.	7.2	.	.	8
15-19	14.8	4	7.5	12.6	18.1	11.6	.	3.3	15.9	4.3	.	7.3	4.5	4.4
20-29	11.4	14.9	16.6	15.3	13.9	18.7	11.8	12.9	13.3	10.6	5.9	8.1	5.1	12.7
30-39	30.7	17.9	18.9	18.8	17.8	22.2	16.9	13.8	17.1	18.2	17.6	17.1	14.1	16.1
40-49	34	30.2	32.3	26	29.9	27.3	24.5	25.3	26.4	23.3	26.5	24.1	17	23.9
50-59	44.9	44	35.3	47.9	43.2	44.8	41.6	43.9	33.4	37.9	37.2	33.2	35.4	32.8
60-64	46.5	47.1	63.4	62.2	41.1	71.7	63.5	54.5	42.5	49.7	49.4	66.7	38.4	67.5
65-69	82.2	101.8	81	81.7	82.5	85.9	77.8	70.1	71.7	71.6	73.5	85.5	53.2	48.1
70-79	154.2	160.3	115.1	61.9	96.6	100.8	96.3	108.9	51.7	135.5	63.1	81.3	69	61.6
80+	.	.	.	.	.	.	.	.	.	.	287.7	.	.	154.2
Male	34.5	27.7	32.6	32.6	30	33.4	27.6	29.6	26.1	29.7	31.8	31.1	23.5	32.1
Female	24.6	26.2	20.9	22.5	27.4	29.1	27.5	25.3	28.3	28	24.7	29.9	27.3	26.2
White	27	26.3	29.7	26	27.6	32.2	25.6	26.8	25.8	26.8	30	30	24.3	27.1
Black	44	33.8	24.4	37.8	35.1	30.9	33.4	35.5	28.3	36.4	25.9	34.2	30.1	42.1
Other race	31.5	8.1	13.5	29.7	23.5	27.2	28	9.7	38	26.5	27	24.4	14.1	10
†Hispanic	.	.	.	.	.	.	.	.	21.7	14.6	19	25.5	12.8	23.3
†Non-Hispanic	.	.	.	.	.	.	.	.	27.5	30.8	30.3	31.3	26.8	30.6
Diabetes	51.3	40.1	46.2	39	48.8	49.4	37.8	39.5	40.6	47.2	46.9	48.1	38.7	40.9
Hypertension	41.4	43.4	30.9	29.8	33.9	32.7	30.5	36	36.5	30.4	30.2	30.3	29.9	34.1
Glomerulonephritis	16.1	14.9	18	22.2	16.8	20	22.4	17.1	16.4	16.7	20.3	19.9	13.6	20
Other cause	24.8	20.5	21.9	25.2	21.6	25.8	20.5	22.3	17.2	22.7	17.8	23.7	18.8	24.1
All	30.6	27.1	27.9	28.5	28.9	31.7	27.5	27.9	26.9	29	28.9	30.6	25	29.7
ADJUSTED														
0-19	7.3	5.5	5.8	5.6	16	5.2	0	3.2	12.4	3.9	3.9	5.1	8.3	4
20-44	32	25.3	24.3	22.5	23.2	26.7	23.2	21.1	20.5	20.7	19.5	18	15.5	22.2
45-64	51.9	47.4	50.2	53.1	47.5	51.4	42.4	43.8	38.9	41.1	41.8	43.9	34.4	40.9
65-74	113.5	118.1	99.5	90.1	102	91.3	86.9	84.2	74.1	91.6	76.4	92.1	63.1	54.3
75+	113.5	118.1	99.5	90.1	102	91.3	86.9	84.2	74.1	91.6	76.4	92.1	63.1	54.3
Male	108.6	86.8	97.4	94.6	84.8	91.9	73.2	75.9	64.2	71.6	73.1	70.4	50.7	68
Female	82.8	86.2	67.8	69.8	82.1	85.2	77.5	70.8	74.5	72.9	62.6	75.5	65.3	60.7
White	90.4	86.2	92.2	78.2	80.2	92.4	70.8	71.3	65.5	67.5	71.1	70.6	53.9	59.1
Black	114	90.1	64.9	97.3	88.9	73.4	79.5	82.2	63.5	78.8	56	73	62.9	84.8
Other race	103.1	22.1	36.3	79.2	62.9	68.4	63.5	26.4	82.4	58.9	59.2	49.1	27.5	19.3
Diabetes	121.6	96.1	106.5	86.8	106.4	106	78	79	78.7	88.8	86	85.7	66.5	69.1
Hypertension	84.6	88.2	60	58.6	64	61	57.1	65.8	64.3	51.9	50.8	50.3	48.8	53.5
Glomerulonephritis	53.8	49.6	57.9	70	51.4	61.9	66.8	49.1	45.5	45.9	55.7	52.5	34.6	49.9
Other cause	69.9	57.8	61.3	69.4	57	68.7	53.9	57.2	42.3	54	41.4	55.4	41.2	53
All	97.8	85.7	85.1	84.1	82.9	88.2	74	73.1	67.3	71.2	68.2	71.3	55.6	64.3

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis.

Mortality rates for one of the four variables are adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation.

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