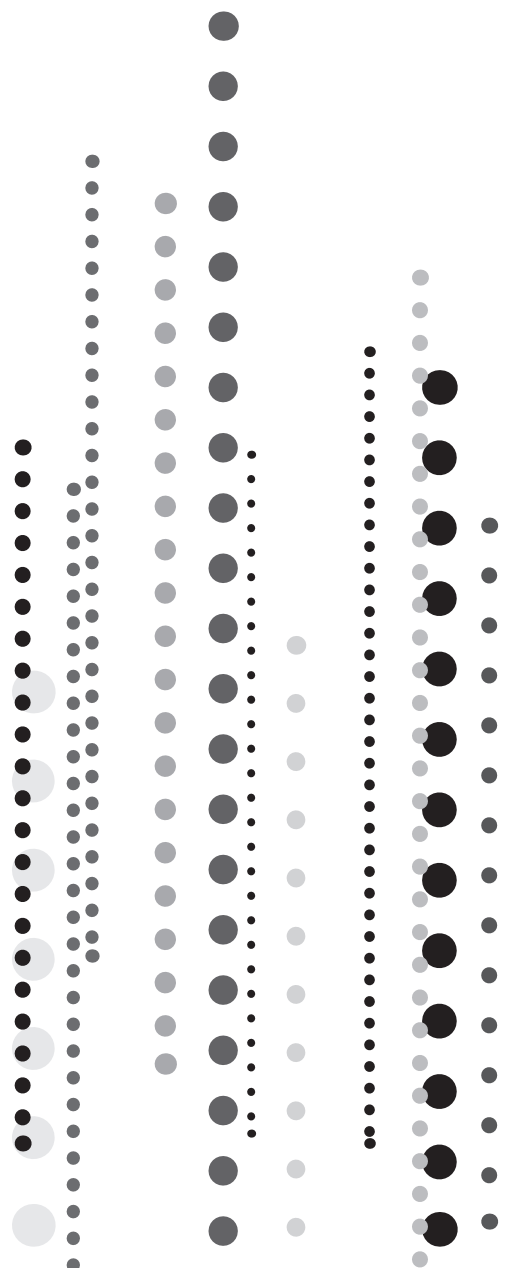




H

MORTALITY &
CAUSES OF DEATH



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Table H.1

Total patient deaths: ESRD patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
0-4	*	12	12	15	24	23	35	29	42	38	58	42
5-9	15	19	11	*	*	15	13	12	13	14	32	16
10-14	28	13	12	*	18	23	24	20	26	24	38	25
15-19	47	64	34	61	49	46	40	49	57	50	81	56
20-29	353	387	358	389	399	413	461	448	525	567	570	528
30-39	800	826	963	952	1,106	1,222	1,412	1,532	1,642	1,650	1,864	1,835
40-49	1,142	1,281	1,273	1,392	1,552	1,722	1,949	2,101	2,300	2,480	2,869	3,049
50-59	2,223	2,375	2,614	2,986	2,963	3,472	3,576	3,808	4,185	4,424	4,714	4,936
60-64	1,505	1,661	1,911	2,089	2,446	2,828	3,077	3,236	3,602	3,767	4,073	4,368
65-69	1,850	2,004	2,140	2,544	2,779	3,232	3,689	4,022	4,567	4,896	5,404	5,842
70-79	2,435	2,883	3,312	3,843	4,564	5,373	5,999	7,012	7,842	8,540	9,640	10,624
80+	655	780	916	1,097	1,378	1,681	1,977	2,460	2,923	3,354	3,734	4,411
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
0-19	100	108	69	94	100	107	112	110	138	126	209	139
20-44	1,626	1,779	1,883	1,927	2,219	2,366	2,710	2,940	3,175	3,372	3,748	3,803
45-64	4,397	4,751	5,236	5,881	6,247	7,291	7,765	8,185	9,079	9,516	10,342	10,913
65-74	3,290	3,747	4,119	4,795	5,417	6,309	7,035	7,949	8,876	9,514	10,619	11,658
75+	1,650	1,920	2,249	2,689	3,304	3,977	4,630	5,545	6,456	7,276	8,159	9,219
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
Male	6,263	7,042	7,610	8,582	9,528	11,112	12,389	13,656	15,206	16,166	17,737	18,964
Female	4,800	5,263	5,946	6,804	7,759	8,938	9,863	11,073	12,518	13,638	15,340	16,768
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
White	7,980	8,932	9,904	11,147	12,447	14,316	15,684	17,494	19,533	20,641	23,000	24,842
Black	2,796	3,056	3,267	3,867	4,427	5,234	5,972	6,596	7,394	8,338	9,135	9,939
Native American	25	29	79	90	123	155	201	228	274	299	357	350
Asian	14	11	61	80	128	188	242	260	316	338	493	521
Other/unknown	248	277	245	202	162	157	153	151	207	188	92	80
†Hispanic												
†Non-Hispanic												
Diabetes	1,237	1,702	2,426	3,280	3,966	5,068	6,085	7,049	8,065	9,116	10,869	12,507
Hypertension	1,211	1,703	2,392	3,022	3,850	4,827	5,383	6,419	7,514	8,562	9,937	11,002
Glomerulonephritis	984	1,209	1,536	1,775	2,071	2,411	2,792	3,110	3,569	3,694	4,143	4,141
Cystic kidney	264	335	363	455	541	625	723	693	811	816	904	864
Other urologic	150	216	329	419	454	595	750	821	892	987	994	977
Other cause	783	890	1,057	1,407	1,665	1,927	2,127	2,386	2,522	2,765	3,174	3,368
Unknown cause	982	1,069	1,206	1,125	1,152	1,479	1,456	1,492	1,780	1,849	1,712	1,714
Missing disease	5,452	5,181	4,247	3,903	3,588	3,118	2,936	2,759	2,571	2,015	1,344	1,159
<2 years	7,124	7,573	8,058	8,952	9,812	11,109	12,083	13,651	15,205	16,020	18,211	19,291
2-<5 years	3,228	3,758	3,704	4,181	4,696	5,631	6,288	6,659	7,517	8,211	8,816	9,972
5+ years	711	974	1,794	2,253	2,779	3,310	3,881	4,419	5,002	5,573	6,050	6,469
All	11,063	12,305	13,556	15,386	17,287	20,050	22,252	24,729	27,724	29,804	33,077	35,732

Patient age 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 ten or fewer patients are suppressed.

.. Zero values in this cell.

Table H.1 (continued)

Total patient deaths: ESRD patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	45	32	37	39	30	37	29	40	38	52	38	33	37
5-9	15	19	11	15	18	13	13	20	12	20	*	21	13
10-14	20	20	19	25	23	25	15	33	17	17	28	32	24
15-19	47	51	57	60	52	56	51	56	54	54	52	78	54
20-29	601	585	561	592	582	545	521	543	533	587	612	580	581
30-39	2,009	2,141	2,224	2,345	2,334	2,236	2,175	2,299	2,199	2,254	2,235	2,173	2,103
40-49	3,437	3,687	4,037	4,534	4,697	4,856	4,986	5,338	5,491	5,830	5,972	5,996	6,007
50-59	5,361	6,065	6,615	7,163	7,597	8,161	8,822	9,924	10,361	11,128	11,596	12,195	12,498
60-64	4,746	4,983	5,270	5,657	5,912	6,210	6,638	7,212	7,413	7,781	7,874	8,579	8,778
65-69	6,386	6,875	7,209	7,769	8,151	8,596	8,961	9,303	9,650	10,015	10,015	10,391	10,516
70-79	12,400	13,896	14,779	16,483	18,050	19,134	20,947	22,672	23,348	24,225	24,817	25,118	25,274
80+	5,168	5,982	6,878	7,709	8,726	10,017	11,340	12,813	13,912	15,178	16,548	17,571	18,367
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.
0-19	127	122	124	139	123	131	108	149	121	143	128	164	128
20-44	4,195	4,390	4,589	4,964	4,937	4,805	4,831	5,043	5,000	5,122	5,224	5,105	4,991
45-64	11,959	13,071	14,118	15,327	16,185	17,203	18,311	20,273	20,997	22,458	23,065	24,418	24,976
65-74	13,288	14,427	15,357	16,682	17,675	18,530	19,701	20,655	21,253	21,923	22,283	22,546	22,782
75+	10,666	12,326	13,509	15,279	17,252	19,217	21,547	24,133	25,657	27,495	29,097	30,534	31,375
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	21,316	23,283	25,074	27,395	29,478	31,079	33,589	36,494	38,086	40,437	41,933	43,999	45,206
Female	18,919	21,053	22,622	24,996	26,694	28,807	30,909	33,759	34,941	36,703	37,864	38,763	39,043
Unknown	.	.	*	.	.	.	.	.	*	*	.	*	*
White	28,050	30,618	32,436	35,312	37,675	40,182	43,274	46,602	48,546	51,161	53,157	54,890	55,679
Black	11,058	12,403	13,660	15,093	15,986	16,872	18,113	20,085	20,707	22,067	22,526	23,563	24,113
Native American	392	450	506	551	641	671	683	781	897	868	933	955	933
Asian	630	725	964	1,182	1,420	1,546	1,703	1,926	1,920	2,132	2,240	2,422	2,517
Other/unknown	105	140	131	253	450	615	725	859	958	913	941	937	1,010
†Hispanic					4,384	5,214	5,897	6,524	7,208	7,830	8,215	8,786	9,055
†Non-Hispanic					51,788	54,672	58,601	63,729	65,820	69,311	71,582	73,981	75,197
Diabetes	14,431	16,483	18,028	20,501	22,976	25,083	28,074	31,201	32,383	34,813	35,883	37,351	38,095
Hypertension	12,360	13,917	15,129	16,130	16,313	17,425	18,353	19,667	20,450	21,469	22,306	23,138	23,702
Glomerulonephritis	4,445	4,646	4,932	5,368	5,629	5,788	5,918	6,246	6,328	6,371	6,486	6,567	6,314
Cystic kidney	928	1,030	1,019	1,167	1,185	1,233	1,227	1,311	1,324	1,458	1,425	1,419	1,422
Other urologic	1,083	1,120	1,036	1,262	1,524	1,619	1,718	1,925	2,069	2,151	2,259	2,314	2,396
Other cause	3,678	4,137	4,588	5,065	5,541	5,675	5,920	6,487	6,710	7,086	7,593	7,912	7,987
Unknown cause	1,922	1,861	1,824	2,007	2,112	2,235	2,430	2,489	2,754	2,952	3,027	3,139	3,301
Missing disease	1,388	1,142	1,141	891	892	828	858	927	1,010	841	818	927	1,035
<2 years	21,788	23,141	24,575	26,125	27,691	29,256	31,760	34,438	35,222	36,785	37,556	38,764	38,759
2-<5 years	11,414	13,092	14,138	15,931	17,091	17,957	19,119	20,643	21,351	22,571	23,523	23,993	24,559
5+ years	7,033	8,103	8,984	10,335	11,390	12,673	13,619	15,172	16,455	17,785	18,718	20,010	20,934
All	40,235	44,336	47,697	52,391	56,172	59,886	64,498	70,253	73,028	77,141	79,797	82,767	84,252

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

h mortality & causes of death

Table H.1 (continued)

Total patient deaths: ESRD patients, with unknowns dropped

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
0-4	*	11	*	11	22	22	30	28	42	38	54	41
5-9	14	16	*	*	*	12	13	12	13	12	31	14
10-14	21	*	*	*	17	18	22	19	25	22	37	23
15-19	39	54	27	54	40	41	38	47	53	45	78	51
20-29	299	338	324	357	365	375	426	421	482	524	527	497
30-39	731	761	882	863	1,042	1,139	1,337	1,433	1,542	1,535	1,740	1,717
40-49	1,010	1,173	1,164	1,308	1,455	1,578	1,848	1,999	2,162	2,326	2,737	2,916
50-59	2,022	2,159	2,370	2,774	2,784	3,239	3,343	3,593	3,943	4,188	4,484	4,734
60-64	1,346	1,506	1,732	1,938	2,266	2,626	2,884	3,053	3,380	3,551	3,904	4,189
65-69	1,660	1,799	1,890	2,318	2,572	2,960	3,415	3,766	4,276	4,587	5,142	5,620
70-79	2,116	2,477	2,912	3,444	4,172	4,911	5,531	6,501	7,187	7,919	9,098	10,050
80+	581	678	800	991	1,237	1,504	1,772	2,230	2,649	3,053	3,452	4,093
0-19	83	90	51	81	87	93	103	106	133	117	200	129
20-44	1,451	1,616	1,724	1,769	2,077	2,190	2,550	2,769	2,974	3,138	3,518	3,583
45-64	3,957	4,321	4,748	5,471	5,835	6,767	7,288	7,730	8,535	8,986	9,874	10,470
65-74	2,905	3,302	3,652	4,333	4,993	5,791	6,525	7,427	8,247	8,918	10,069	11,140
75+	1,452	1,652	1,950	2,420	2,988	3,584	4,193	5,070	5,865	6,641	7,623	8,623
Male	5,592	6,241	6,821	7,835	8,773	10,190	11,468	12,727	14,099	15,013	16,749	17,956
Female	4,256	4,740	5,304	6,239	7,207	8,235	9,191	10,375	11,655	12,787	14,535	15,989
White	7,233	8,112	8,979	10,274	11,581	13,244	14,615	16,437	18,260	19,400	21,829	23,643
Black	2,577	2,832	3,017	3,642	4,160	4,861	5,627	6,203	6,945	7,798	8,654	9,474
Native American	24	27	71	86	119	146	190	219	255	288	342	338
Asian	14	*	58	72	120	174	227	243	294	314	459	490
†Hispanic												
†Non-Hispanic												
Diabetes	1,201	1,643	2,384	3,248	3,945	5,047	6,066	7,032	8,036	9,086	10,848	12,483
Hypertension	1,204	1,685	2,371	3,002	3,838	4,813	5,375	6,416	7,500	8,539	9,918	10,987
Glomerulonephritis	961	1,181	1,508	1,757	2,058	2,400	2,779	3,100	3,550	3,676	4,135	4,130
Cystic kidney	261	330	361	450	540	621	721	693	807	813	904	864
Other urologic	150	213	326	417	452	592	749	821	888	982	992	976
Other cause	768	880	1,049	1,398	1,657	1,919	2,122	2,378	2,515	2,757	3,166	3,365
Missing disease	5,303	5,049	4,126	3,802	3,490	3,033	2,847	2,662	2,458	1,947	1,321	1,140
<2 years	6,486	6,882	7,356	8,381	9,257	10,427	11,390	12,866	14,216	15,049	17,340	18,359
2-<5 years	2,803	3,330	3,275	3,737	4,285	5,176	5,894	6,312	7,068	7,700	8,356	9,521
5+ years	559	769	1,494	1,956	2,438	2,822	3,375	3,924	4,470	5,051	5,588	6,065
All	9,848	10,981	12,125	14,074	15,980	18,425	20,659	23,102	25,754	27,800	31,284	33,945

Patient age 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 ten or fewer patients are suppressed.

Table H.1 (continued)

Total patient deaths: ESRD patients, with unknowns dropped*by age, gender, race, ethnicity, primary diagnosis, & patient vintage*

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	40	30	34	36	26	31	24	36	34	42	31	30	30
5-9	14	18	11	15	17	13	13	17	11	18	*	18	11
10-14	20	18	18	22	19	24	14	31	15	13	26	27	22
15-19	46	45	53	57	48	54	41	52	47	49	49	74	51
20-29	556	544	541	552	544	511	494	503	497	545	582	545	534
30-39	1,879	2,022	2,097	2,238	2,202	2,133	2,074	2,185	2,080	2,111	2,113	2,055	1,970
40-49	3,266	3,515	3,872	4,358	4,484	4,657	4,761	5,098	5,231	5,581	5,707	5,722	5,692
50-59	5,136	5,821	6,390	6,910	7,306	7,810	8,433	9,540	9,902	10,641	11,089	11,670	11,926
60-64	4,553	4,801	5,089	5,441	5,700	5,974	6,367	6,887	7,065	7,462	7,538	8,222	8,436
65-69	6,088	6,622	6,949	7,475	7,846	8,231	8,576	8,923	9,249	9,625	9,606	9,969	10,079
70-79	11,794	13,293	14,190	15,778	17,224	18,234	19,972	21,661	22,246	23,073	23,667	23,967	24,081
80+	4,830	5,618	6,506	7,260	8,222	9,384	10,597	11,997	12,969	14,143	15,445	16,425	17,142
0-19	120	111	116	130	110	122	92	136	107	122	116	149	114
20-44	3,929	4,140	4,365	4,734	4,661	4,590	4,600	4,790	4,733	4,839	4,976	4,845	4,671
45-64	11,461	12,563	13,624	14,765	15,575	16,495	17,529	19,423	20,042	21,501	22,053	23,369	23,887
65-74	12,686	13,874	14,803	16,032	16,953	17,733	18,843	19,817	20,324	21,003	21,342	21,622	21,819
75+	10,026	11,659	12,842	14,481	16,339	18,116	20,302	22,764	24,140	25,838	27,376	28,739	29,483
Male	20,173	22,132	23,944	26,129	28,069	29,498	31,874	34,656	35,989	38,244	39,698	41,706	42,773
Female	18,049	20,215	21,805	24,013	25,569	27,558	29,492	32,274	33,357	35,059	36,165	37,013	37,198
White	26,712	29,324	31,175	33,890	36,185	38,539	41,497	44,746	46,514	48,972	50,902	52,552	53,211
Black	10,530	11,911	13,159	14,593	15,467	16,381	17,566	19,580	20,097	21,424	21,889	22,902	23,412
Native American	384	437	491	531	621	656	669	760	875	854	911	930	918
Asian	596	675	925	1,128	1,365	1,480	1,634	1,844	1,860	2,053	2,161	2,340	2,433
†Hispanic					3,987	4,638	5,223	5,724	6,304	6,952	7,362	7,883	8,137
†Non-Hispanic					49,651	52,418	56,143	61,206	63,042	66,351	68,501	70,841	71,837
Diabetes	14,404	16,451	17,988	20,407	22,767	24,714	27,641	30,703	31,816	34,262	35,321	36,811	37,548
Hypertension	12,353	13,891	15,109	16,076	16,249	17,339	18,244	19,536	20,312	21,320	22,165	22,985	23,514
Glomerulonephritis	4,434	4,637	4,922	5,354	5,604	5,757	5,883	6,194	6,272	6,313	6,423	6,497	6,250
Cystic kidney	928	1,029	1,019	1,166	1,181	1,226	1,221	1,307	1,314	1,444	1,415	1,413	1,416
Other urologic	1,080	1,116	1,034	1,245	1,501	1,599	1,704	1,905	2,046	2,134	2,242	2,293	2,374
Other cause	3,671	4,125	4,565	5,030	5,491	5,627	5,862	6,415	6,627	7,021	7,520	7,838	7,902
Missing disease	1,352	1,098	1,113	864	845	794	811	870	959	809	777	887	970
<2 years	20,700	22,133	23,552	24,916	26,198	27,556	29,930	32,511	33,131	34,645	35,407	36,554	36,422
2-<5 years	10,945	12,610	13,679	15,401	16,550	17,335	18,330	19,745	20,372	21,582	22,479	22,979	23,455
5+ years	6,577	7,604	8,519	9,825	10,890	12,165	13,106	14,674	15,843	17,076	17,977	19,191	20,097
All	38,222	42,347	45,750	50,142	53,638	57,056	61,366	66,930	69,346	73,303	75,863	78,724	79,974

Patient age 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.

h mortality & causes of death

Table H.2

Annual mortality rates: ESRD patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	117	106	69	54	71	71	78	66	63	64	70	97	88
5-9	62	52	42	22	25	34	26	21	9	21	14	19	18
10-14	41	21	20	13	16	34	23	21	22	17	13	16	17
15-19	27	36	20	34	27	24	23	24	24	20	17	20	22
20-29	48	49	42	43	39	40	40	38	44	42	39	38	40
30-39	80	73	76	66	72	68	70	70	67	65	65	60	62
40-49	112	109	100	99	95	98	103	97	96	91	92	89	90
50-59	153	151	151	161	152	162	155	155	157	152	147	140	137
60-64	228	213	216	213	221	228	230	224	226	220	209	207	208
65-69	289	280	275	288	275	287	293	277	282	277	274	262	258
70-79	352	356	352	352	359	369	362	365	365	365	356	343	348
80+	521	544	530	482	510	517	515	486	519	517	474	478	478
Male	162	163	160	161	164	172	176	173	177	175	171	167	170
Female	159	152	154	160	164	170	171	171	176	175	175	175	178
White	164	165	165	168	173	180	180	180	185	182	182	182	187
Black	152	143	139	146	146	155	161	159	162	165	159	155	155
Other race	149	147	159	139	139	142	148	138	140	131	132	115	118
†Hispanic													
†Non-Hispanic													
Diabetes	258	256	257	267	256	266	268	262	256	245	244	239	239
Hypertension	136	147	156	164	174	189	187	195	204	204	203	203	203
Glomerulonephritis	76	79	86	86	88	91	95	97	103	99	100	95	96
Other cause	189	179	168	167	169	169	168	156	157	157	142	136	140
<2 years	193	191	190	196	208	222	222	224	230	225	223	220	225
2-<5 years	141	142	143	146	144	153	161	157	166	168	165	165	171
5+ years	79	88	91	106	105	106	110	109	109	110	108	103	101
All	160	158	157	161	164	171	174	172	177	175	173	171	174
ADJUSTED													
0-19	51	55	45	48	45	51	54	47	44	39	37	41	43
20-44	92	91	88	84	84	82	83	79	80	76	75	72	72
45-64	171	170	170	179	176	183	183	179	178	169	162	154	152
65-74	278	293	295	308	302	312	313	306	305	297	289	277	276
75+	390	385	399	409	427	429	425	416	425	423	410	397	391
Male	219	221	221	227	225	232	232	227	228	221	211	201	199
Female	200	201	202	210	209	214	211	206	207	201	195	190	190
White	226	229	231	239	238	246	242	238	237	229	220	213	212
Black	181	177	172	184	182	188	192	188	192	192	185	179	177
Other race	192	195	213	206	205	205	200	190	186	173	167	148	141
Diabetes	276	276	275	289	285	290	289	283	280	267	256	247	243
Hypertension	161	166	170	176	179	190	186	186	190	188	185	180	179
Glomerulonephritis	139	136	144	144	145	149	149	146	154	150	151	142	142
Other cause	200	202	199	202	202	207	210	199	198	197	183	174	175
<2 years	249	241	238	240	240	248	245	238	239	231	221	211	211
2-<5 years	210	209	209	213	207	213	214	209	212	207	199	194	194
5+ years	142	159	166	186	186	190	189	188	188	183	178	171	166
All	210	211	212	219	217	224	222	217	218	212	204	196	195

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender are excluded.

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

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Annual mortality rates: ESRD patients, by primary diagnosis, adjusted (H.2.1).
 Annual deaths per 1,000 patients: ESRD patients, by primary diagnosis (H.2.2).
 ESRD patients: counts of total deaths, by primary diagnosis (H.2.3). Annual mortality rates: ESRD patients, unadjusted (H.2.4).

Table H.2 (continued)

Annual mortality rates: ESRD patients*per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage*

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	68	60	60	49	71	48	69	64	80	61	59	49
5-9	17	10	17	19	14	13	20	13	18	10	18	14
10-14	15	12	13	14	13	9	20	7	7	15	18	11
15-19	18	21	23	18	19	20	16	18	18	16	22	16
20-29	38	36	37	37	33	31	33	31	34	36	35	33
30-39	63	61	62	61	57	55	57	53	55	53	51	49
40-49	87	86	89	85	83	81	82	80	83	82	80	77
50-59	141	139	138	136	133	131	134	129	129	126	124	120
60-64	206	197	197	194	190	188	192	185	183	174	180	172
65-69	256	250	250	248	243	245	242	238	236	228	224	219
70-79	348	335	335	337	328	332	339	331	329	324	316	311
80+	477	469	474	471	478	484	501	487	488	486	477	465
Male	171	168	171	171	168	169	173	170	172	169	170	167
Female	182	179	183	183	184	186	192	188	190	188	185	180
White	189	185	188	188	188	191	194	191	192	191	189	184
Black	159	159	162	159	157	157	164	160	164	161	161	160
Other race	117	124	133	145	147	147	153	150	144	142	139	133
†Hispanic				143	150	154	154	150	151	148	147	141
†Non-Hispanic				180	178	180	185	182	184	182	181	178
Diabetes	240	232	235	236	232	236	242	233	236	229	227	221
Hypertension	208	206	206	200	201	202	205	202	204	204	202	199
Glomerulonephritis	94	92	96	95	93	90	92	90	89	88	87	81
Other cause	139	134	137	139	135	134	138	137	138	138	137	134
<2 years	225	219	218	220	217	222	230	224	227	225	226	220
2-<5 years	179	179	187	185	185	185	190	187	189	189	186	184
5+ years	105	105	111	111	114	114	117	117	119	117	118	117
All	176	173	177	176	175	177	182	178	180	178	177	173
ADJUSTED												
0-19	39	36	35	31	32	31	34	30	31	30	34	30
20-44	72	70	71	70	67	66	67	64	65	65	64	62
45-64	151	145	144	141	137	134	136	131	132	128	127	124
65-74	272	263	265	263	258	258	261	254	252	246	241	234
75+	396	386	394	396	391	395	409	399	402	396	391	385
Male	198	191	191	190	184	182	185	178	178	175	173	169
Female	191	186	187	184	182	182	187	182	182	179	176	171
White	212	203	202	198	193	192	195	188	186	183	180	174
Black	178	174	178	177	173	171	177	173	176	173	173	170
Other race	136	136	142	149	150	151	155	151	148	142	139	134
Diabetes	242	233	234	232	225	226	230	222	221	215	211	204
Hypertension	181	177	178	173	170	170	173	168	169	167	165	162
Glomerulonephritis	138	134	136	135	130	129	130	127	126	124	123	117
Other cause	175	171	171	171	167	165	169	166	167	165	165	163
<2 years	209	201	198	195	189	189	193	187	188	185	184	179
2-<5 years	197	192	196	193	188	186	187	181	180	177	173	169
5+ years	165	161	166	165	165	166	168	164	165	160	157	153
All	194	188	189	187	183	182	185	180	180	176	174	170

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender are excluded.

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

h mortality & causes of death

Table H.3

Total patient deaths: dialysis patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	*	*	*	*	*	*	15	13	13	17	18	26	27
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	14	12	13	12	16
15-19	21	32	21	37	28	36	22	26	29	21	24	31	32
20-29	228	251	243	240	249	278	306	296	373	403	387	386	436
30-39	520	556	643	636	769	878	946	1,114	1,166	1,208	1,341	1,365	1,528
40-49	819	895	911	1,034	1,145	1,305	1,473	1,574	1,720	1,845	2,116	2,291	2,686
50-59	1,648	1,796	2,013	2,369	2,464	2,806	2,921	3,065	3,388	3,582	3,739	3,982	4,479
60-64	1,175	1,264	1,550	1,711	2,090	2,391	2,601	2,751	3,041	3,197	3,373	3,617	3,981
65-69	1,355	1,505	1,622	1,995	2,238	2,681	3,115	3,315	3,826	4,209	4,575	4,954	5,391
70-79	1,700	2,037	2,400	2,881	3,705	4,372	4,866	5,613	6,394	7,186	8,039	9,002	10,528
80+	358	438	579	703	1,013	1,227	1,514	1,779	2,250	2,682	2,965	3,640	4,263
0-19	41	50	38	51	50	66	51	50	62	57	61	78	84
20-44	1,096	1,200	1,276	1,293	1,537	1,695	1,879	2,121	2,266	2,457	2,683	2,802	3,206
45-64	3,294	3,562	4,084	4,697	5,180	5,963	6,368	6,679	7,422	7,778	8,273	8,839	9,904
65-74	2,378	2,759	3,070	3,709	4,395	5,203	5,866	6,477	7,376	8,120	8,921	9,886	11,295
75+	1,035	1,221	1,531	1,870	2,561	3,077	3,629	4,230	5,094	5,957	6,658	7,710	8,887
Male	4,319	4,945	5,527	6,334	7,426	8,718	9,735	10,576	11,905	12,994	13,971	15,264	17,411
Female	3,525	3,847	4,472	5,286	6,297	7,286	8,058	8,981	10,315	11,375	12,625	14,051	15,965
Unknown													
White	5,582	6,324	7,154	8,226	9,743	11,201	12,292	13,528	15,311	16,510	18,095	20,022	22,858
Black	2,074	2,254	2,566	3,116	3,641	4,402	5,017	5,508	6,292	7,184	7,720	8,503	9,572
Native American	19	22	69	70	111	132	170	193	230	261	316	307	344
Asian	*	*	38	57	103	158	213	233	269	289	422	439	542
Other/unknown	161	184	172	151	125	111	101	95	118	125	43	44	60
†Hispanic													
†Non-Hispanic													
Diabetes	1,065	1,400	1,962	2,717	3,295	4,259	5,112	5,964	6,852	7,745	9,195	10,603	12,479
Hypertension	1,036	1,386	1,901	2,492	3,190	4,021	4,488	5,369	6,368	7,192	8,126	9,177	10,408
Glomerulonephritis	829	982	1,236	1,427	1,703	1,967	2,259	2,522	2,953	3,019	3,298	3,394	3,732
Cystic kidney	224	294	312	384	449	519	613	572	659	703	722	708	763
Other urologic	115	171	252	341	381	493	630	694	751	833	831	803	937
Other cause	674	725	866	1,114	1,354	1,556	1,758	1,978	2,076	2,241	2,507	2,770	3,007
Unknown cause	816	869	987	900	957	1,227	1,218	1,222	1,446	1,587	1,354	1,371	1,515
Missing disease	3,085	2,965	2,483	2,245	2,394	1,962	1,715	1,236	1,115	1,049	563	489	535
<2 years	4,958	5,311	5,922	6,908	8,188	9,413	10,198	11,308	12,874	14,026	15,537	17,199	19,461
2-<5 years	2,417	2,773	3,185	3,104	3,518	4,182	4,733	5,015	5,698	6,283	6,763	7,569	8,901
5+ years	469	708	892	1,608	2,017	2,409	2,862	3,234	3,648	4,060	4,296	4,547	5,014
All	7,844	8,792	9,999	11,620	13,723	16,004	17,793	19,557	22,220	24,369	26,596	29,315	33,376
All with unknowns dropped	6,880	7,755	8,857	10,581	12,645	14,676	16,481	18,252	20,669	22,685	25,205	27,903	31,808

Patient age 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 ten or fewer patients are suppressed.

Table H.3 (continued)

Total patient deaths: dialysis patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	18	19	22	18	21	16	20	26	31	21	21	19
5-9	11	*	*	*	*	*	12	*	15	*	13	*
10-14	14	11	13	15	13	12	21	*	*	18	25	19
15-19	31	30	38	31	35	31	37	31	35	30	44	33
20-29	431	427	439	459	422	417	429	427	463	474	484	479
30-39	1,632	1,692	1,839	1,869	1,749	1,712	1,839	1,755	1,797	1,795	1,753	1,688
40-49	2,909	3,082	3,511	3,643	3,816	3,945	4,272	4,378	4,684	4,826	4,887	4,902
50-59	4,910	5,355	5,847	6,174	6,638	7,179	8,035	8,417	9,132	9,573	10,004	10,316
60-64	4,181	4,380	4,742	4,958	5,173	5,555	6,025	6,194	6,427	6,569	7,163	7,325
65-69	5,914	6,148	6,597	6,986	7,306	7,613	7,952	8,144	8,492	8,506	8,781	8,858
70-79	11,846	12,577	14,041	15,346	16,381	17,883	19,435	19,947	20,589	21,153	21,428	21,619
80+	4,995	5,713	6,445	7,266	8,200	9,244	10,463	11,448	12,582	13,710	14,615	15,295
0-19	74	67	78	74	78	66	90	70	88	73	103	80
20-44	3,375	3,508	3,857	3,872	3,738	3,812	4,022	3,976	4,064	4,215	4,130	4,046
45-64	10,688	11,428	12,521	13,231	14,060	14,996	16,578	17,195	18,439	19,022	20,161	20,664
65-74	12,389	13,180	14,261	15,139	15,853	16,799	17,699	18,060	18,607	18,948	19,199	19,344
75+	10,366	11,258	12,822	14,459	16,034	17,941	20,151	21,479	23,056	24,421	25,625	26,428
Male	19,003	20,401	22,400	24,152	25,439	27,468	29,934	31,276	33,184	34,567	36,365	37,357
Female	17,889	19,040	21,139	22,623	24,324	26,146	28,606	29,504	31,070	32,112	32,853	33,205
Unknown												
White	24,984	26,257	28,708	30,642	32,557	35,090	37,860	39,407	41,491	43,358	44,766	45,447
Black	10,813	11,855	13,198	14,047	14,816	15,881	17,652	18,138	19,405	19,761	20,711	21,302
Native American	403	450	473	566	578	614	691	786	760	837	834	816
Asian	611	797	1,021	1,216	1,353	1,464	1,644	1,673	1,844	1,951	2,120	2,191
Other/unknown	81	82	139	304	459	565	693	776	754	772	787	806
†Hispanic				3,698	4,465	5,112	5,650	6,110	6,732	7,142	7,656	7,884
†Non-Hispanic				43,077	45,298	48,502	52,890	54,670	57,522	59,537	61,562	62,678
Diabetes	14,233	15,505	17,631	19,864	21,658	24,195	27,027	27,999	30,095	31,145	32,514	33,166
Hypertension	11,808	12,776	13,872	14,048	14,849	15,632	16,704	17,363	18,208	18,924	19,659	20,310
Glomerulonephritis	3,868	4,023	4,407	4,565	4,676	4,792	5,083	5,114	5,129	5,280	5,317	5,102
Cystic kidney	828	807	910	907	963	923	968	967	1,079	1,046	1,047	1,027
Other urologic	950	864	1,004	1,237	1,296	1,366	1,553	1,670	1,769	1,837	1,887	1,939
Other cause	3,383	3,665	4,005	4,382	4,491	4,694	5,171	5,353	5,568	5,965	6,144	6,177
Unknown cause	1,467	1,438	1,584	1,655	1,751	1,923	1,943	2,202	2,333	2,424	2,523	2,617
Missing disease	355	363	126	117	79	89	91	112	73	58	127	224
<2 years	21,013	22,067	23,561	25,131	26,154	28,425	30,853	31,639	33,057	33,681	34,857	34,928
2-<5 years	10,241	11,217	12,811	13,767	14,793	15,679	17,087	17,673	18,761	19,824	20,311	20,746
5+ years	5,638	6,157	7,167	7,877	8,816	9,510	10,600	11,468	12,436	13,174	14,050	14,888
All	36,892	39,441	43,539	46,775	49,763	53,614	58,540	60,780	64,254	66,679	69,218	70,562
All with unknowns dropped	35,355	37,926	41,823	44,835	47,565	51,145	55,923	57,827	61,189	63,511	65,940	67,164

Patient age 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 ten or fewer patients are suppressed.

h mortality & causes of death

Table H.4

Annual mortality rates: dialysis patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	112	135	91	79	95	91	115	95	106	117	121	170	161
5-9	75	61	47	26	36	69	23	21	27	40	34	51	56
10-14	40	30	24	19	21	47	34	25	45	38	42	34	44
15-19	35	43	28	51	40	45	37	39	37	28	26	36	42
20-29	67	69	64	60	58	62	66	64	78	75	68	67	72
30-39	95	91	96	86	95	100	103	114	109	107	109	101	105
40-49	120	121	111	117	112	122	133	132	134	128	130	126	132
50-59	160	158	160	172	166	178	177	180	189	185	179	174	175
60-64	230	217	220	218	225	235	240	238	244	244	231	231	234
65-69	290	282	277	289	277	290	297	284	291	288	285	276	273
70-79	352	357	353	353	360	370	364	367	368	368	360	348	353
80+	521	543	530	481	511	517	517	487	521	519	474	478	479
Male	184	190	190	196	201	217	227	231	239	238	230	225	231
Female	179	174	177	187	192	203	207	212	221	221	221	221	226
White	192	197	200	209	218	234	241	248	261	260	259	259	269
Black	160	152	150	158	158	171	179	178	183	186	178	174	174
Other race	171	171	189	167	172	180	189	180	185	176	177	153	155
†Hispanic													
†Non-Hispanic													
Diabetes	287	288	289	306	292	309	316	316	310	295	293	284	284
Hypertension	148	160	171	181	192	211	209	223	234	234	232	231	231
Glomerulonephritis	92	99	109	112	116	123	133	140	154	148	151	146	150
Other cause	210	203	196	198	204	212	219	209	217	224	203	199	209
<2 years	209	206	206	214	227	243	246	249	255	247	243	239	244
2-<5 years	163	171	175	184	183	200	214	217	232	238	230	228	235
5+ years	104	116	121	138	140	147	158	163	171	178	177	174	177
All	182	183	184	192	197	211	218	222	230	230	226	223	228
ADJUSTED													
0-19	66	69	56	67	63	78	80	69	67	60	60	69	78
20-44	113	114	112	110	109	112	117	119	123	119	117	112	114
45-64	184	181	182	194	191	202	205	205	209	204	196	190	190
65-74	291	305	305	318	311	322	324	320	321	314	306	297	298
75+	407	401	415	421	438	443	440	433	444	443	429	418	414
Male	233	234	235	242	241	251	254	254	259	253	243	233	233
Female	212	212	213	222	221	228	227	225	228	224	218	213	215
White	242	245	247	256	257	268	267	268	271	265	256	250	252
Black	190	185	181	192	189	196	202	201	206	207	199	193	192
Other race	201	206	224	216	216	219	217	208	206	194	187	167	160
Diabetes	297	297	297	313	308	318	321	320	322	308	297	288	286
Hypertension	170	175	180	186	189	202	200	203	209	209	206	202	203
Glomerulonephritis	145	143	151	152	154	159	162	162	173	170	171	164	166
Other cause	212	214	210	213	213	222	227	220	222	225	210	202	205
<2 years	253	246	243	246	247	257	255	251	252	243	232	222	223
2-<5 years	220	222	224	231	225	235	240	240	247	245	236	230	232
5+ years	173	186	192	210	210	217	220	224	230	229	226	221	221

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender are excluded.

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

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Annual mortality rates: dialysis patients, by primary diagnosis, adjusted (H.4.1).
 Annual deaths per 1,000 patients: dialysis patients, by primary diagnosis (H.4.2).
 Dialysis patients: counts of total deaths, by primary diagnosis (H.4.3). Annual mortality rates: dialysis patients, unadjusted (H.4.4).

Table H.4 (continued)

Annual mortality rates: dialysis patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	133	104	108	89	122	88	118	135	156	111	118	86
5-9	54	33	38	56	37	40	56	34	64	18	54	59
10-14	35	31	31	41	34	27	58	17	19	36	53	34
15-19	32	35	40	33	35	35	33	37	41	33	45	35
20-29	65	64	64	63	55	53	55	52	56	59	60	57
30-39	106	103	105	105	95	93	96	89	91	89	85	81
40-49	129	125	131	124	124	120	123	120	124	124	124	120
50-59	176	175	176	172	170	170	175	169	171	169	168	165
60-64	234	224	225	224	220	221	227	220	218	212	220	213
65-69	273	268	269	269	267	269	270	266	267	260	258	254
70-79	355	341	342	345	337	343	351	344	344	342	334	333
80+	477	470	475	472	480	485	503	489	491	489	481	469
Male	231	226	229	229	225	226	232	227	230	228	230	227
Female	231	226	231	231	233	237	245	240	243	243	240	235
White	272	264	268	270	269	274	280	275	276	277	276	271
Black	178	177	182	179	177	178	186	181	187	183	185	184
Other race	153	160	169	183	186	186	193	189	182	179	176	169
†Hispanic				179	187	193	194	186	188	186	186	180
†Non-Hispanic				236	234	236	244	240	243	242	242	239
Diabetes	283	273	275	277	270	274	283	271	274	267	265	258
Hypertension	237	234	235	229	232	234	238	235	237	237	236	234
Glomerulonephritis	147	144	149	147	144	142	146	143	142	145	145	139
Other cause	208	203	207	212	209	209	215	216	219	222	223	222
<2 years	242	234	233	235	231	236	244	238	241	239	240	233
2-<5 years	242	240	249	244	240	239	244	239	239	239	235	232
5+ years	184	184	195	198	206	207	214	215	220	220	221	222
All	231	226	230	230	229	231	238	233	236	235	234	230
ADJUSTED												
0-19	71	63	62	59	61	57	65	60	66	59	68	61
20-44	113	110	113	112	109	107	108	103	102	103	102	99
45-64	190	183	184	181	178	177	181	176	177	174	174	171
65-74	296	287	291	291	289	291	296	290	290	288	285	281
75+	418	407	415	420	417	423	438	429	433	429	424	420
Male	231	224	225	224	218	217	220	214	214	212	211	208
Female	217	212	215	213	212	213	219	214	215	214	211	206
White	252	243	243	240	236	236	240	233	232	230	228	223
Black	193	189	194	193	189	187	192	188	192	189	189	187
Other race	155	154	161	169	171	173	178	174	171	165	161	155
Diabetes	284	273	275	275	269	269	275	264	264	257	253	246
Hypertension	205	200	203	197	195	196	201	195	196	195	194	192
Glomerulonephritis	163	158	161	160	157	156	159	155	156	156	156	153
Other cause	207	203	205	208	205	205	210	208	211	212	213	213
<2 years	220	211	209	206	200	201	206	199	200	198	197	193
2-<5 years	234	228	231	227	221	218	220	212	210	208	204	200
5+ years	223	219	227	230	234	237	244	240	243	241	240	238
All	225	218	220	219	215	215	220	214	214	212	211	207

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender are excluded.

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

h mortality & causes of death

Table H.5

Total patient deaths: dialysis patients, never on transplant wait list

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	*	*	*	*	*	*	15	13	13	17	15	23	24
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	11	*	*	*	12
15-19	21	32	21	37	28	36	22	26	24	18	19	23	30
20-29	228	251	243	240	249	278	304	285	350	366	345	329	373
30-39	520	556	643	635	769	878	946	1,086	1,103	1,111	1,211	1,196	1,340
40-49	819	895	911	1,034	1,145	1,304	1,471	1,547	1,626	1,706	1,961	2,096	2,423
50-59	1,648	1,796	2,013	2,369	2,464	2,806	2,921	3,035	3,308	3,460	3,589	3,783	4,242
60-64	1,175	1,264	1,550	1,711	2,090	2,391	2,601	2,746	3,015	3,160	3,302	3,546	3,865
65-69	1,355	1,505	1,622	1,995	2,238	2,681	3,114	3,311	3,806	4,186	4,546	4,921	5,338
70-79	1,700	2,037	2,400	2,881	3,705	4,372	4,866	5,611	6,389	7,180	8,030	8,983	10,505
80+	358	438	579	703	1,013	1,227	1,514	1,779	2,250	2,682	2,965	3,639	4,263
0-19	41	50	38	51	50	66	51	49	53	48	48	61	73
20-44	1,096	1,200	1,276	1,292	1,537	1,694	1,877	2,071	2,130	2,251	2,433	2,482	2,819
45-64	3,294	3,562	4,084	4,697	5,180	5,963	6,366	6,628	7,272	7,552	7,975	8,468	9,424
65-74	2,378	2,759	3,070	3,709	4,395	5,203	5,865	6,471	7,353	8,091	8,883	9,839	11,223
75+	1,035	1,221	1,531	1,870	2,561	3,077	3,629	4,230	5,092	5,957	6,658	7,704	8,883
Male	4,319	4,945	5,527	6,334	7,426	8,717	9,733	10,512	11,712	12,721	13,599	14,811	16,822
Female	3,525	3,847	4,472	5,285	6,297	7,286	8,055	8,937	10,188	11,178	12,398	13,743	15,600
Unknown													
White	5,582	6,324	7,154	8,226	9,743	11,201	12,288	13,456	15,100	16,182	17,696	19,485	22,206
Black	2,074	2,254	2,566	3,115	3,641	4,401	5,016	5,478	6,197	7,063	7,538	8,302	9,304
Native American	19	22	69	70	111	132	170	192	228	252	311	295	329
Asian	*	*	38	57	103	158	213	231	262	279	409	428	523
Other/unknown	161	184	172	151	125	111	101	92	113	123	43	44	60
†Hispanic													
†Non-Hispanic													
Diabetes	1,065	1,400	1,962	2,717	3,295	4,259	5,112	5,928	6,738	7,576	8,988	10,331	12,130
Hypertension	1,036	1,386	1,901	2,491	3,190	4,021	4,486	5,355	6,315	7,120	8,016	9,038	10,213
Glomerulonephritis	829	982	1,236	1,427	1,703	1,967	2,259	2,493	2,891	2,927	3,161	3,240	3,559
Cystic kidney	224	294	312	384	449	519	612	569	646	677	696	670	712
Other urologic	115	171	252	341	381	493	630	692	746	823	824	791	919
Other cause	674	725	866	1,114	1,354	1,556	1,757	1,965	2,032	2,186	2,434	2,676	2,898
Unknown cause	816	869	987	900	957	1,226	1,218	1,221	1,439	1,564	1,334	1,340	1,471
Missing disease	3,085	2,965	2,483	2,245	2,394	1,962	1,714	1,226	1,093	1,026	544	468	520
<2 years	4,958	5,311	5,922	6,908	8,188	9,413	10,198	11,265	12,744	13,835	15,351	16,977	19,202
2-<5 years	2,417	2,773	3,185	3,103	3,518	4,182	4,731	4,990	5,596	6,127	6,539	7,267	8,527
5+ years	469	708	892	1,608	2,017	2,408	2,859	3,194	3,560	3,937	4,107	4,310	4,693
All	7,844	8,792	9,999	11,619	13,723	16,003	17,788	19,449	21,900	23,899	25,997	28,554	32,422
All with unknowns dropped	6,880	7,755	8,857	10,580	12,645	14,676	16,476	18,148	20,361	22,240	24,626	27,173	30,898

Patient age 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 ten or fewer patients are suppressed.

Table H.5 (continued)

Total patient deaths: dialysis patients, never on transplant wait list

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	17	18	21	15	20	13	18	23	29	20	17	16
5-9	*	*	*	*	*	*	11	*	*	*	12	*
10-14	12	*	*	11	*	*	13	*	*	*	15	12
15-19	21	18	27	25	24	19	28	23	24	17	33	22
20-29	364	347	348	359	320	296	315	313	338	347	343	321
30-39	1,430	1,460	1,564	1,537	1,402	1,389	1,456	1,369	1,401	1,406	1,363	1,258
40-49	2,571	2,714	3,028	3,086	3,192	3,318	3,531	3,572	3,855	4,004	3,962	3,845
50-59	4,619	4,908	5,375	5,629	5,958	6,367	7,102	7,331	7,907	8,271	8,529	8,646
60-64	4,057	4,236	4,557	4,713	4,848	5,170	5,589	5,693	5,830	5,950	6,459	6,426
65-69	5,825	6,043	6,445	6,762	7,055	7,349	7,609	7,739	8,046	8,006	8,197	8,086
70-79	11,807	12,526	13,967	15,244	16,253	17,696	19,203	19,628	20,267	20,725	20,924	20,971
80+	4,995	5,711	6,442	7,263	8,195	9,239	10,455	11,434	12,562	13,676	14,580	15,256
0-19	58	51	62	59	61	47	70	57	69	49	77	55
20-44	2,947	3,013	3,263	3,192	3,013	3,064	3,218	3,124	3,195	3,324	3,234	3,022
45-64	10,094	10,652	11,609	12,132	12,707	13,476	14,775	15,154	16,136	16,654	17,422	17,474
65-74	12,269	13,034	14,043	14,833	15,504	16,398	17,186	17,423	17,918	18,122	18,245	18,090
75+	10,358	11,246	12,811	14,436	15,999	17,886	20,081	21,378	22,957	24,285	25,456	26,223
Male	18,322	19,566	21,415	22,895	24,035	25,890	28,062	29,223	30,873	32,104	33,557	34,100
Female	17,404	18,430	20,373	21,757	23,249	24,981	27,268	27,913	29,402	30,330	30,877	30,764
Unknown												
White	24,211	25,343	27,581	29,270	31,063	33,427	35,916	37,284	39,168	40,922	41,994	42,161
Black	10,466	11,381	12,641	13,388	13,961	14,973	16,560	16,851	18,011	18,234	19,039	19,275
Native American	385	428	447	535	545	581	651	738	715	777	769	738
Asian	585	762	981	1,161	1,274	1,345	1,538	1,531	1,654	1,786	1,909	1,932
Other/unknown	79	82	138	298	441	545	665	732	727	715	723	758
†Hispanic				3,525	4,261	4,818	5,303	5,736	6,289	6,614	7,054	7,116
†Non-Hispanic				41,127	43,023	46,053	50,027	51,400	53,986	55,820	57,380	57,748
Diabetes	13,792	14,960	17,011	19,054	20,709	23,100	25,689	26,503	28,394	29,358	30,532	30,739
Hypertension	11,579	12,448	13,496	13,599	14,284	15,045	15,999	16,591	17,306	17,999	18,609	19,056
Glomerulonephritis	3,637	3,751	4,060	4,137	4,219	4,285	4,541	4,448	4,480	4,575	4,458	4,154
Cystic kidney	765	753	805	800	844	784	838	807	916	868	854	813
Other urologic	935	836	972	1,196	1,257	1,313	1,488	1,582	1,670	1,718	1,767	1,798
Other cause	3,242	3,502	3,805	4,161	4,205	4,402	4,822	4,986	5,199	5,516	5,684	5,620
Unknown cause	1,426	1,393	1,519	1,591	1,690	1,855	1,863	2,113	2,238	2,342	2,406	2,465
Missing disease	350	353	120	114	76	87	90	106	72	58	124	219
<2 years	20,700	21,658	23,133	24,612	25,576	27,827	30,204	30,928	32,316	32,982	34,082	34,042
2-<5 years	9,818	10,742	12,256	13,090	14,069	14,845	16,095	16,590	17,539	18,502	18,841	18,977
5+ years	5,208	5,596	6,399	6,950	7,639	8,199	9,031	9,618	10,420	10,950	11,511	11,845
All	35,726	37,996	41,788	44,652	47,284	50,871	55,330	57,136	60,275	62,434	64,434	64,864
All with unknowns dropped	34,232	36,526	40,138	42,781	45,165	48,489	52,820	54,316	57,330	59,404	61,335	61,666

Patient age 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 ten or fewer patients are suppressed.

h mortality & causes of death

Table H.6

Annual mortality rates: dialysis patients, never on transplant wait list

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	182	233	164	166	186	158	226	217	262	271	247	354	360
5-9	127	112	103	56	82	168	63	69	80	77	88	158	191
10-14	65	52	43	37	43	101	86	68	126	127	155	109	138
15-19	53	68	45	88	70	87	78	97	86	75	68	83	144
20-29	86	91	88	86	87	97	111	119	156	155	142	138	149
30-39	110	109	117	108	124	134	147	175	171	167	174	159	168
40-49	128	131	122	131	129	145	167	178	181	173	179	175	184
50-59	162	161	164	178	173	190	194	205	218	214	210	203	207
60-64	231	218	221	220	227	239	247	249	257	258	244	247	251
65-69	290	282	277	290	278	291	300	288	296	294	292	284	281
70-79	352	357	353	353	360	370	364	367	369	369	361	350	355
80+	521	543	530	481	511	517	517	487	521	519	475	478	479
Male	197	204	206	214	222	244	261	275	288	289	280	275	282
Female	190	186	190	202	210	225	233	244	256	256	258	257	264
White	205	212	217	229	240	261	274	292	310	309	309	308	320
Black	169	161	160	171	172	189	202	206	212	218	209	206	208
Other race	186	190	211	189	197	210	231	229	237	225	231	200	201
†Hispanic													
†Non-Hispanic													
Diabetes	292	295	295	314	302	322	336	345	340	325	324	313	314
Hypertension	156	170	181	193	206	229	230	250	264	266	265	265	267
Glomerulonephritis	106	115	129	133	141	152	169	186	208	202	208	201	210
Other cause	219	214	208	213	222	235	250	248	260	271	250	247	263
<2 years	222	220	222	232	247	269	279	294	305	297	292	287	293
2-<5 years	172	182	188	201	201	222	241	249	266	274	267	266	274
5+ years	114	127	134	153	157	168	184	193	203	211	210	208	213
All	194	196	199	209	216	235	248	260	272	273	269	266	273
ADJUSTED													
0-19	.	.	83	104	99	128	140	139	140	133	131	149	184
20-44	.	.	127	127	129	138	152	167	179	177	177	169	176
45-64	.	.	185	198	197	211	220	226	234	230	224	217	220
65-74	.	.	306	318	312	324	327	324	323	315	307	299	300
75+	.	.	418	424	437	444	442	434	441	438	424	412	409
Male	.	.	241	249	249	262	270	277	286	281	272	261	264
Female	.	.	219	228	228	238	240	244	248	244	239	234	239
White	.	.	254	264	266	280	284	290	297	292	284	278	283
Black	.	.	185	197	194	206	215	219	226	227	219	214	215
Other race	.	.	231	224	223	229	233	230	230	217	214	193	185
Diabetes	.	.	303	319	315	328	336	343	346	332	322	312	313
Hypertension	.	.	185	192	197	213	214	221	230	231	229	225	229
Glomerulonephritis	.	.	157	160	162	171	178	184	199	197	199	192	197
Other cause	.	.	217	221	223	235	245	244	250	254	240	232	238
<2 years	.	.	250	254	256	270	274	278	284	276	266	255	259
2-<5 years	.	.	229	238	233	246	254	260	269	267	260	254	258
5+ years	.	.	197	215	216	225	231	238	243	243	240	236	237
All	.	.	230	239	239	251	257	262	269	264	257	249	252

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.6 (continued)

Annual mortality rates: dialysis patients, never on transplant wait list*per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage*

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	291	229	234	164	218	145	236	277	286	207	213	137
5-9	173	130	102	157	122	104	155	76	126	37	140	74
10-14	103	82	79	102	92	68	136	55	63	75	109	72
15-19	85	83	99	85	81	69	84	92	84	62	95	66
20-29	140	136	136	135	118	106	111	102	107	112	108	90
30-39	175	171	174	171	154	154	156	146	150	147	138	118
40-49	181	176	184	174	173	170	175	168	176	177	171	156
50-59	212	209	217	213	211	212	222	214	219	217	213	202
60-64	253	245	247	248	246	250	259	255	254	249	260	245
65-69	281	278	280	281	280	286	289	287	291	287	286	276
70-79	357	344	345	349	341	347	356	350	352	350	343	341
80+	477	470	475	472	480	486	503	489	492	490	482	470
Male	283	279	283	284	279	282	290	285	289	287	287	277
Female	271	266	272	273	275	281	293	287	292	292	288	275
White	325	317	321	323	323	330	339	334	336	338	334	322
Black	213	213	220	218	214	217	228	223	231	226	226	219
Other race	198	206	218	236	238	236	250	244	238	237	232	217
†Hispanic				233	242	250	252	243	245	242	241	224
†Non-Hispanic				283	281	285	296	292	297	296	294	285
Diabetes	314	302	307	309	302	309	319	308	312	306	304	290
Hypertension	275	272	275	269	272	276	283	281	284	285	281	275
Glomerulonephritis	208	206	215	212	210	210	220	212	214	219	213	196
Other cause	265	262	267	275	272	273	283	285	291	295	295	286
<2 years	292	283	282	284	280	288	299	292	296	292	290	275
2-<5 years	282	280	292	286	283	284	290	285	287	290	284	275
5+ years	224	227	242	247	257	260	270	271	281	283	286	282
All	277	272	278	278	277	282	291	286	291	290	287	276
ADJUSTED												
0-19	169	143	134	124	127	111	129	127	135	115	129	104
20-44	176	172	176	173	168	166	169	161	160	162	159	145
45-64	223	217	221	220	219	219	227	221	225	225	224	214
65-74	299	291	296	297	296	300	307	303	306	307	306	299
75+	413	403	411	416	413	419	435	425	431	428	423	418
Male	264	256	259	259	253	253	258	252	254	252	251	241
Female	242	238	242	241	241	244	253	247	250	251	248	236
White	285	275	277	274	271	274	281	273	274	274	272	260
Black	218	216	222	222	216	214	221	216	223	220	220	212
Other race	181	181	192	202	202	203	212	209	208	203	198	186
Diabetes	312	301	305	306	300	301	309	298	299	296	292	276
Hypertension	233	227	231	224	222	225	232	228	229	229	228	220
Glomerulonephritis	196	191	195	195	193	192	199	193	197	199	197	186
Other cause	243	241	244	249	245	246	254	252	258	260	261	254
<2 years	257	248	246	244	237	239	247	240	242	240	238	226
2-<5 years	262	256	263	259	253	251	255	246	246	246	241	231
5+ years	241	239	249	253	257	262	270	266	272	273	274	266
All	254	248	252	251	247	249	256	249	252	251	249	239

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender are excluded.

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

h mortality & causes of death

Table H.7

Total patient deaths: dialysis patients, on transplant wait list

by age, gender, race, ethnicity, 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	*	14	16	21	19	25	26	36	41	43	50	54	62	54	60	62	73	92
30-39	13	35	48	68	76	84	100	105	126	163	159	178	211	185	214	200	231	278
40-49	16	47	60	66	81	96	148	157	230	261	289	312	366	404	414	415	499	642
50-59	21	41	71	69	89	90	125	201	221	263	357	418	481	609	692	719	853	1,038
60-64	*	13	20	32	33	49	46	55	78	111	165	192	216	288	318	343	426	556
65-69	*	*	11	17	19	16	25	44	62	108	127	112	162	189	235	259	337	461
70-79	*	*	*	*	*	*	17	22	22	42	50	67	95	118	131	172	264	332
80+	.	.	.	.	*	.	.	*	*	*	*	.	*	*	*	*	14	14
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	14	11	13
20-44	27	73	92	125	135	154	195	222	275	316	337	383	418	421	442	448	493	638
45-64	32	77	123	131	163	190	250	332	421	525	683	771	918	1,119	1,256	1,291	1,589	1,968
65-74	*	11	12	23	22	21	39	62	82	146	165	164	233	287	338	394	543	711
75+	.	*	.	.	*	*	*	*	*	*	15	15	25	21	36	46	72	96
Male	37	101	132	180	193	230	289	358	431	561	684	754	940	1,032	1,198	1,258	1,623	1,910
Female	26	70	98	102	138	139	204	266	355	438	526	588	661	820	879	935	1,085	1,516
Unknown																		
White	42	102	161	195	233	258	325	393	498	626	700	792	963	1,046	1,179	1,228	1,545	1,949
Black	17	62	60	79	88	100	145	207	256	329	427	445	546	673	742	798	939	1,234
Native American	*	*	*	*	*	*	*	*	*	15	24	18	15	19	24	27	43	47
Asian	*	*	*	*	*	*	16	14	22	25	47	70	58	78	110	92	129	162
Other/unknown	*	*	*	.	.	.	*	.	.	*	12	17	19	36	22	48	52	34
†Hispanic									86	107	163	184	204	268	330	392	491	
†Non-Hispanic									913	1,103	1,179	1,417	1,648	1,809	1,863	2,316	2,935	
Diabetes	22	54	84	101	117	140	200	244	294	404	499	605	727	821	991	1,035	1,228	1,568
Hypertension	*	29	28	54	60	73	90	142	161	206	279	251	316	396	450	468	541	715
Glomerulonephritis	12	37	49	63	67	66	97	102	140	198	197	218	259	292	296	301	452	505
Cystic kidney	*	*	14	11	18	14	22	15	47	39	49	51	49	72	60	77	105	103
Other urologic	*	*	*	*	*	*	*	12	15	15	15	28	28	45	39	56	60	80
Other cause	*	24	28	27	39	52	63	80	98	104	144	155	179	169	196	219	252	356
Unknown cause	.	*	16	*	*	13	16	25	28	31	25	34	43	54	44	37	68	96
Missing disease	*	17	*	*	11	*	*	*	*	*	*	.	.	*	*	.	*	*
<2 years	20	49	80	79	102	117	165	209	239	290	340	368	409	452	483	432	485	588
2-<5 years	17	66	78	105	113	129	186	209	296	388	466	521	639	747	901	983	1,118	1,326
5+ years	26	56	72	98	116	123	142	206	251	321	404	453	553	653	693	778	1,105	1,512
All	63	171	230	282	331	369	493	624	786	999	1,210	1,342	1,601	1,852	2,077	2,193	2,708	3,426
All with unknowns dropped	61	162	213	272	321	356	475	599	758	965	1,173	1,292	1,539	1,762	2,013	2,109	2,589	3,296

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

Table H.8

Annual mortality rates: dialysis patients, on transplant wait list

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	.	76	72	62	.	.	.	.	.	110	114	51	46	48	48	.	37
5-9	.	27	.	.	.	.	20	.	.	.	.	.	.	26	.	.	.	49
10-14	24	50	24	.	31	20	18	9	12	22	9	19	39	10	10	39	25	29
15-19	20	26	.	10	15	4	20	8	13	21	28	20	11	11	22	30	27	23
20-29	15	18	18	22	20	22	18	24	28	26	25	28	30	23	27	27	30	35
30-39	20	29	36	42	40	39	41	37	38	48	44	43	48	39	40	36	38	46
40-49	34	51	48	39	40	44	53	46	58	55	59	55	59	59	55	51	56	69
50-59	51	52	83	67	67	54	61	79	70	70	81	81	80	88	82	77	79	90
60-64	38	77	91	105	94	110	86	68	82	94	107	105	104	112	99	90	99	120
65-69	53	136	101	114	118	84	71	108	103	139	139	98	116	120	112	101	115	139
70-79	275	453	60	201	116	56	163	150	125	164	148	157	163	141	122	130	163	165
80+	.	.	.	.	610	.	.	313	384	293	301	.	92	65	309	169	169	185
Male	31	44	49	52	47	50	49	52	53	60	64	62	69	67	68	65	74	82
Female	25	37	43	38	44	37	47	49	58	61	68	65	66	72	66	64	66	87
White	31	39	53	52	55	53	56	57	64	71	72	72	80	77	75	71	81	95
Black	22	46	36	38	35	32	38	45	45	50	57	53	57	62	60	58	61	77
Other race	44	38	32	23	22	22	39	32	32	35	60	61	46	59	55	52	57	59
†Hispanic	.	.	.	.	.	.	.	.	.	46	47	59	58	53	58	62	64	71
†Non-Hispanic	.	.	.	.	.	.	.	.	.	62	68	64	69	72	69	65	72	86
Diabetes	88	92	116	105	99	93	99	102	101	112	118	118	124	117	116	105	108	125
Hypertension	27	37	28	42	38	38	38	48	46	52	63	52	56	63	61	57	60	73
Glomerulonephritis	14	26	29	30	29	26	32	29	33	41	37	36	40	41	38	37	50	55
Other cause	27	38	44	35	42	36	37	40	50	45	50	51	53	55	47	49	56	69
<2 years	31	34	42	32	36	36	41	44	45	49	53	50	52	51	50	45	48	55
2-<5 years	23	53	52	57	53	50	59	56	65	69	72	69	74	77	77	74	75	85
5+ years	31	38	46	52	52	48	48	55	57	63	73	72	77	79	72	69	84	103
All	28	41	46	46	46	44	48	51	55	60	65	63	68	69	67	64	71	84
ADJUSTED																		
0-19	.	.	44	47	52	27	32	20	22	30	46	57	50	36	37	50	48	54
20-44	.	.	48	51	50	45	46	46	50	54	58	57	59	55	50	46	46	56
45-64	.	.	97	82	82	75	79	80	80	83	88	84	89	89	83	74	79	90
65-74	.	.	134	136	113	92	101	118	123	149	160	131	134	132	118	108	121	142
75+	.	.	166	62	347	188	244	194	167	145	204	185	215	160	141	134	157	179
Male	.	.	108	85	124	102	117	105	98	98	108	97	109	97	90	81	92	103
Female	.	.	98	72	92	61	73	84	83	92	108	100	99	95	85	79	82	99
White	.	.	130	94	135	101	120	118	104	110	121	110	120	108	97	87	97	110
Black	.	.	54	60	69	51	57	59	69	72	91	77	80	77	72	70	73	88
Other race	.	.	86	57	40	59	58	62	81	69	78	84	74	77	72	63	71	80
Diabetes	.	.	165	122	158	128	157	149	133	140	156	138	155	141	129	116	121	136
Hypertension	.	.	74	64	84	67	74	80	74	80	99	91	93	82	77	71	78	92
Glomerulonephritis	.	.	58	53	84	57	52	54	63	73	83	74	71	67	57	56	68	79
Other cause	.	.	86	69	101	66	69	65	72	68	71	71	79	74	66	62	69	84
<2 years	.	.	76	49	71	55	69	71	66	69	77	69	72	65	60	54	59	67
2-<5 years	.	.	115	92	127	93	113	103	101	104	115	101	108	99	94	88	93	104
5+ years	.	.	140	115	168	123	135	135	123	132	158	147	160	145	129	115	130	155
All	.	.	102	79	110	83	97	95	91	95	108	98	104	96	88	80	87	101

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

h mortality & causes of death

Table H.9

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

by age, gender, race, ethnicity, 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	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	20	29	21	25	38	31	37	47	52	65	72	76	80
30-39	31	30	45	49	76	103	115	140	155	178	163	207	203
40-49	25	34	40	54	70	102	105	144	180	204	258	256	282
50-59	25	29	36	56	71	65	117	112	153	145	183	213	226
60-64	*	*	*	*	*	32	27	30	42	55	65	66	86
65-69	.	*	*	*	*	11	14	*	32	26	35	39	35
70-79	*	.	.	.	.	*	*	*	*	12	16	20	25
80+	*	.	.	.	.	*	.	.	.	.	.	*	*
0-19	*	*	*	*	*	12	*	11	18	14	16	15	12
20-44	66	76	83	98	153	182	195	261	300	355	372	415	419
45-64	43	50	65	92	112	151	206	212	282	292	369	403	458
65-74	*	*	*	*	*	14	20	13	37	36	47	56	53
75+	*	.	.	.	.	*	.	*	.	*	*	*	*
Male	75	91	98	120	177	249	291	322	397	432	503	539	602
Female	41	43	58	77	103	112	137	177	240	267	305	354	349
Unknown													
White	91	97	115	132	214	261	289	328	438	487	540	579	650
Black	21	33	35	54	60	92	125	153	186	199	245	292	281
Native American	.	.	.	*	*	*	*	*	*	*	*	*	12
Asian	.	.	.	.	*	*	*	*	*	*	14	12	*
Other/unknown	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
Diabetes	20	14	27	39	50	66	77	106	135	157	188	200	228
Hypertension	*	*	20	30	36	59	62	64	103	122	138	175	187
Glomerulonephritis	26	24	36	48	70	84	124	129	172	181	233	259	232
Cystic kidney	*	*	*	*	13	20	25	22	36	32	41	46	58
Other urologic	*	*	*	*	*	*	*	13	11	*	*	*	20
Other cause	*	15	12	14	27	39	59	65	95	94	127	146	152
Unknown cause	*	15	15	10	30	29	21	34	34	47	45	34	49
Missing disease	39	48	39	45	52	56	58	66	51	56	32	23	25
<2 years	27	22	19	16	24	21	16	23	44	55	38	48	38
2-<5 years	67	84	100	85	98	133	133	158	163	190	200	208	207
5+ years	22	28	37	96	158	207	279	318	430	454	570	637	706
All	116	134	156	197	280	361	428	499	637	699	808	893	951
All with unknowns dropped	104	117	137	177	247	331	401	458	599	650	761	855	900

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

Table H.9 (continued)

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

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	.	.	.	.	.	.	.	.	.	*	.
5-9	*	.	.	*	*	*	.	*	*	*	*	*
10-14	*	*	*	*	*	*	*	.	.	*	*	*
15-19	*	13	*	11	*	*	*	*	*	*	*	*
20-29	56	63	64	78	71	82	81	87	93	86	82	82
30-39	208	204	216	235	248	238	232	242	259	233	208	207
40-49	301	298	340	390	465	406	480	505	529	517	541	527
50-59	243	325	355	342	369	439	489	491	551	601	633	657
60-64	104	105	114	123	160	176	180	191	226	218	253	286
65-69	82	63	111	96	106	125	127	172	167	160	200	218
70-79	30	46	44	63	73	98	101	122	146	177	154	181
80+	*	*	*	*	*	*	*	*	*	13	*	12
0-19	16	15	14	16	12	11	14	*	12	13	12	11
20-44	416	401	444	497	547	517	508	563	581	576	511	528
45-64	496	594	645	671	766	824	954	953	1,077	1,079	1,206	1,231
65-74	101	96	146	140	157	195	198	257	273	291	312	355
75+	16	20	15	20	23	31	34	42	47	59	49	56
Male	620	654	722	810	854	911	1,008	1,050	1,181	1,161	1,171	1,269
Female	425	472	542	534	651	667	700	774	809	857	919	912
Unknown												
White	714	722	829	914	973	1,023	1,065	1,153	1,267	1,273	1,285	1,329
Black	310	370	404	395	485	507	589	605	657	673	723	767
Native American	*	14	16	11	13	16	14	22	16	23	20	23
Asian	12	19	15	24	33	32	40	42	49	48	59	60
Other/unknown	*	*	.	.	*	.	.	*	*	*	*	*
†Hispanic				95	107	125	153	142	169	175	164	180
†Non-Hispanic				1,249	1,398	1,453	1,555	1,682	1,821	1,843	1,926	2,001
Diabetes	255	267	280	325	343	394	448	467	503	493	515	559
Hypertension	224	273	300	292	336	348	404	391	447	461	463	515
Glomerulonephritis	289	295	355	378	431	432	439	521	549	547	625	602
Cystic kidney	53	57	74	94	114	97	102	101	119	107	115	129
Other urologic	25	28	28	31	37	46	50	63	71	87	70	67
Other cause	153	154	169	176	207	214	230	242	251	283	249	259
Unknown cause	32	44	56	46	37	45	34	38	50	40	53	49
Missing disease	14	*	*	*	.	*	*	*	.	.	.	*
<2 years	39	38	25	25	16	13	12	11	16	11	19	11
2-<5 years	182	207	166	181	159	165	165	149	140	126	131	143
5+ years	824	881	1,073	1,138	1,330	1,400	1,531	1,664	1,834	1,881	1,940	2,027
All	1,045	1,126	1,264	1,344	1,505	1,578	1,708	1,824	1,990	2,018	2,090	2,181
All with unknowns dropped	1,011	1,081	1,208	1,298	1,467	1,533	1,674	1,784	1,939	1,977	2,034	2,130

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

h mortality & causes of death

Table H.10

Annual mortality rates: dialysis patients, returned to dialysis from transplant

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	.	.	.	.	.	.	.	127	.	.	135	152	.
5-9	371	103	.	39	.	23	48	21	.	30	27	25	39
10-14	34	71	37	13	.	64	34	16	67	40	31	37	32
15-19	30	27	15	30	53	43	26	48	48	24	35	28	41
20-29	57	74	50	40	48	36	37	41	45	50	46	52	51
30-39	80	62	74	66	66	79	78	81	87	80	75	80	75
40-49	92	84	92	88	77	98	91	107	118	108	113	98	99
50-59	155	106	106	125	123	98	165	133	150	126	148	149	141
60-64	262	105	105	107	130	219	164	177	188	184	180	165	191
65-69	.	425	494	70	266	322	320	105	323	214	253	219	155
70-79	.	.	.	.	.	414	611	392	172	292	315	321	334
80+	.	.	.	.	.	.	.	.	.	.	.	.	415
Male	87	80	75	68	71	90	96	92	103	93	98	97	101
Female	90	69	72	76	76	65	69	78	91	87	90	91	82
White	100	80	82	70	81	87	89	86	104	98	99	98	104
Black	59	70	55	66	56	68	79	86	89	79	86	89	77
Other race	86	63	71	122	42	65	106	102	64	51	89	73	59
†Hispanic													
†Non-Hispanic													
Diabetes	266	143	215	213	180	214	208	229	230	216	238	223	224
Hypertension	53	44	62	64	60	78	77	65	86	86	85	94	90
Glomerulonephritis	54	34	45	46	47	47	61	56	69	66	73	73	64
Other cause	104	117	85	73	86	92	93	99	105	89	88	83	92
<2 years	89	92	86	47	55	66	51	62	91	94	68	90	79
2-<5 years	80	72	80	70	71	85	86	101	101	97	95	93	96
5+ years	126	82	55	77	76	80	89	83	98	88	97	95	94
All	88	76	74	71	72	80	86	87	98	91	95	94	93
ADJUSTED													
0-19	.	.	.	.	.	.	55	62	66	59	57	82	78
20-44	.	.	.	.	.	.	87	88	100	95	97	98	90
45-64	.	.	.	.	.	.	151	158	166	155	158	150	145
65-74	.	.	.	.	.	.	343	224	321	246	287	225	179
75+	.	.	.	.	.	.	510	658	211	304	431	281	396
Male	.	.	.	.	.	.	281	265	213	198	218	187	194
Female	.	.	.	.	.	.	150	166	159	158	205	154	139
White	.	.	.	.	.	.	267	256	215	214	248	202	194
Black	.	.	.	.	.	.	113	136	129	117	141	121	126
Other race	.	.	.	.	.	.	185	220	204	174	211	117	122
Diabetes	.	.	.	.	.	.	363	362	290	266	322	232	224
Hypertension	.	.	.	.	.	.	124	138	124	130	173	160	151
Glomerulonephritis	.	.	.	.	.	.	111	132	115	110	119	140	138
Other cause	.	.	.	.	.	.	202	181	159	167	144	123	134
<2 years	.	.	.	.	.	.	163	156	144	153	167	142	132
2-<5 years	.	.	.	.	.	.	254	270	210	192	229	177	182
5+ years	.	.	.	.	.	.	293	282	231	206	273	212	219
All	.	.	.	.	.	.	218	216	185	178	210	170	168

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.10 (continued)

Annual mortality rates: dialysis patients, returned to dialysis from transplant

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	194	.	.	.	153	.	.	.	137	99	133	.
5-9	14	.	33	33	.	48	.	73	150	.	33	93
10-14	19	12	34	43	21	34	106	9	.	83	51	20
15-19	42	43	37	33	27	36	23	27	39	23	35	22
20-29	40	44	42	44	44	49	43	47	60	46	55	50
30-39	74	60	64	73	75	70	69	73	72	65	53	59
40-49	100	91	103	103	118	99	114	114	119	115	115	107
50-59	137	151	157	143	150	163	168	161	159	165	160	158
60-64	201	170	197	175	224	210	221	198	229	222	232	231
65-69	314	181	300	243	254	302	236	322	283	224	260	274
70-79	245	321	275	244	328	353	339	352	348	409	311	348
80+	405	603	1,143	172	172	376	515	399	505	772	304	433
Male	96	91	97	101	107	108	115	116	126	117	115	120
Female	95	91	105	97	116	112	112	119	119	124	126	122
White	105	95	110	115	123	122	123	130	137	134	130	132
Black	82	84	88	76	93	91	102	100	106	102	106	107
Other race	60	79	67	72	82	85	89	96	93	89	88	94
†Hispanic				74	74	83	94	81	96	96	80	83
†Non-Hispanic				102	115	112	116	122	126	123	124	126
Diabetes	225	200	214	226	224	239	262	251	259	245	230	237
Hypertension	99	106	112	98	111	109	123	113	124	120	119	128
Glomerulonephritis	74	64	76	78	87	80	78	93	92	91	99	92
Other cause	80	78	86	86	100	101	100	102	110	112	101	104
<2 years	83	81	59	72	53	58	52	47	69	50	102	58
2-<5 years	90	100	83	93	92	99	109	106	110	97	103	115
5+ years	97	89	105	101	114	111	115	119	125	123	120	122
All	96	91	101	99	111	109	114	117	123	120	119	121
ADJUSTED												
0-19	73	55	63	70	56	51	59	56	66	54	64	45
20-44	87	77	78	80	83	81	76	77	81	75	77	74
45-64	146	145	141	134	133	131	136	132	138	127	140	133
65-74	243	233	252	207	217	246	225	237	236	217	221	226
75+	350	419	346	350	317	354	305	285	309	303	266	271
Male	176	188	174	170	161	169	161	159	170	157	157	155
Female	168	175	169	151	149	164	150	148	146	139	150	147
White	194	209	198	184	169	186	171	170	176	164	168	163
Black	154	145	129	124	130	143	132	127	133	126	130	129
Other race	121	118	149	124	143	129	139	122	111	100	111	120
Diabetes	242	263	240	212	208	233	219	210	215	199	196	195
Hypertension	150	152	155	154	136	147	136	131	132	126	134	133
Glomerulonephritis	131	123	129	116	115	110	102	110	119	113	128	122
Other cause	131	133	131	133	138	133	133	138	151	137	134	125
<2 years	139	147	129	120	104	114	93	88	100	88	118	103
2-<5 years	181	201	180	171	167	186	186	182	180	166	156	167
5+ years	227	227	239	222	229	244	237	237	236	231	209	213
All	173	182	171	160	155	167	156	154	158	148	153	151

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

h mortality & causes of death

Table H.11

Total patient deaths: hemodialysis patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	*	*	*	*	*	*	*	*	*	*	*	*	11
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*	*
15-19	21	27	16	27	21	28	12	18	18	15	21	27	
20-29	202	231	217	200	203	231	242	244	295	329	319	303	352
30-39	447	476	546	532	641	706	726	887	924	954	1,089	1,086	1,195
40-49	740	785	797	881	938	1,069	1,142	1,263	1,371	1,488	1,709	1,831	2,104
50-59	1,466	1,613	1,781	2,064	2,117	2,326	2,392	2,519	2,774	2,964	3,091	3,237	3,638
60-64	1,074	1,158	1,378	1,491	1,803	2,040	2,164	2,290	2,541	2,682	2,809	2,998	3,306
65-69	1,247	1,363	1,480	1,765	1,989	2,307	2,642	2,789	3,211	3,613	3,900	4,138	4,513
70-79	1,529	1,866	2,169	2,547	3,343	3,861	4,249	4,871	5,536	6,309	7,071	7,839	9,138
80+	314	394	516	601	912	1,088	1,338	1,593	2,018	2,411	2,693	3,289	3,854
0-19	35	38	25	33	28	37	27	31	37	33	29	37	47
20-44	966	1,052	1,102	1,092	1,266	1,368	1,454	1,700	1,784	1,954	2,171	2,210	2,520
45-64	2,963	3,211	3,617	4,076	4,436	5,004	5,212	5,503	6,121	6,463	6,846	7,245	8,075
65-74	2,175	2,516	2,787	3,283	3,924	4,527	5,028	5,520	6,269	7,020	7,692	8,385	9,593
75+	915	1,107	1,378	1,630	2,320	2,729	3,201	3,733	4,496	5,313	5,972	6,881	7,912
Male	3,943	4,495	4,959	5,606	6,492	7,496	8,123	8,934	9,983	11,049	11,853	12,763	14,473
Female	3,111	3,429	3,950	4,508	5,482	6,169	6,799	7,553	8,724	9,734	10,857	11,995	13,674
Unknown													
White	5,004	5,664	6,298	7,054	8,362	9,383	10,034	11,122	12,533	13,677	15,066	16,478	18,759
Black	1,882	2,063	2,348	2,803	3,306	3,931	4,464	4,893	5,646	6,506	6,957	7,580	8,557
Native American	16	21	66	62	96	108	143	163	183	217	266	261	297
Asian	*	*	35	47	96	139	189	222	242	270	384	403	483
Other/unknown	144	169	162	148	114	104	92	87	103	113	37	36	51
†Hispanic													
†Non-Hispanic													
Diabetes	865	1,154	1,633	2,201	2,732	3,495	4,099	4,863	5,653	6,507	7,692	8,799	10,371
Hypertension	928	1,241	1,676	2,153	2,835	3,459	3,891	4,662	5,533	6,297	7,140	7,965	8,990
Glomerulonephritis	737	890	1,095	1,247	1,484	1,652	1,856	2,099	2,434	2,477	2,740	2,810	3,058
Cystic kidney	207	268	283	331	376	441	513	469	540	574	606	587	630
Other urologic	105	150	225	297	325	431	552	612	657	743	744	700	822
Other cause	608	657	786	979	1,188	1,348	1,472	1,671	1,741	1,929	2,137	2,339	2,514
Unknown cause	723	788	879	786	847	1,054	1,030	1,041	1,220	1,376	1,183	1,154	1,299
Missing disease	2,881	2,776	2,332	2,120	2,187	1,785	1,509	1,070	929	880	468	404	463
<2 years	4,354	4,677	5,086	5,773	6,977	7,822	8,362	9,331	10,674	11,829	13,091	14,312	16,191
2-<5 years	2,286	2,624	3,001	2,862	3,172	3,679	4,029	4,287	4,829	5,379	5,828	6,459	7,588
5+ years	414	623	822	1,479	1,825	2,164	2,531	2,869	3,204	3,575	3,791	3,987	4,368
All	7,054	7,924	8,909	10,114	11,974	13,665	14,922	16,487	18,707	20,783	22,710	24,758	28,147
All with unknowns dropped	6,200	6,981	7,885	9,192	11,017	12,517	13,805	15,371	17,395	19,319	21,495	23,570	26,801

Patient age 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 ten or fewer patients are suppressed.

Table H.11 (continued)

Total patient deaths: hemodialysis patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	*	12	*	*	*	*	*	12	*	*	.
5-9	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	13	*	*	12	16	*
15-19	24	13	19	22	23	17	23	20	24	19	35	27
20-29	351	320	351	369	356	341	351	374	407	417	410	420
30-39	1,250	1,306	1,443	1,498	1,415	1,447	1,591	1,516	1,594	1,568	1,575	1,523
40-49	2,247	2,407	2,770	2,890	3,160	3,319	3,706	3,847	4,162	4,331	4,434	4,440
50-59	3,946	4,328	4,683	5,027	5,504	6,077	6,974	7,421	8,165	8,641	9,087	9,422
60-64	3,374	3,603	3,951	4,101	4,347	4,800	5,315	5,527	5,809	5,998	6,594	6,723
65-69	4,918	5,168	5,485	5,911	6,268	6,669	7,135	7,330	7,699	7,802	8,109	8,222
70-79	10,282	10,782	12,195	13,395	14,532	16,110	17,756	18,329	19,127	19,793	20,112	20,293
80+	4,529	5,169	5,827	6,639	7,537	8,632	9,908	10,861	11,971	13,142	13,998	14,687
0-19	42	31	39	36	35	35	44	37	51	40	67	40
20-44	2,619	2,709	3,041	3,086	3,066	3,195	3,469	3,455	3,583	3,746	3,701	3,645
45-64	8,549	9,255	10,157	10,799	11,716	12,789	14,468	15,230	16,554	17,209	18,399	18,883
65-74	10,516	11,141	12,035	12,949	13,752	14,869	15,952	16,350	17,016	17,520	17,820	17,984
75+	9,213	9,978	11,472	12,996	14,585	16,542	18,847	20,170	21,781	23,217	24,399	25,218
Male	15,797	17,017	18,726	20,432	21,944	24,225	26,953	28,363	30,406	31,986	33,738	34,769
Female	15,142	16,097	18,018	19,434	21,210	23,205	25,827	26,879	28,579	29,746	30,648	31,001
Unknown												
White	20,369	21,376	23,565	25,470	27,516	30,381	33,547	35,228	37,543	39,628	41,170	41,886
Black	9,622	10,563	11,746	12,586	13,537	14,677	16,512	17,073	18,354	18,804	19,762	20,336
Native American	341	378	408	489	514	552	626	737	708	785	771	759
Asian	539	721	904	1,057	1,190	1,327	1,469	1,505	1,688	1,799	1,952	2,037
Other/unknown	68	76	121	264	397	493	626	699	692	716	731	752
†Hispanic				3,281	3,949	4,583	5,191	5,629	6,205	6,664	7,149	7,405
†Non-Hispanic				36,585	39,205	42,847	47,589	49,613	52,780	55,068	57,237	58,365
Diabetes	11,699	12,768	14,673	16,697	18,512	21,193	24,253	25,354	27,574	28,775	30,272	30,933
Hypertension	10,173	11,069	11,989	12,301	13,199	14,172	15,358	16,052	16,888	17,784	18,450	19,106
Glomerulonephritis	3,184	3,249	3,643	3,728	3,913	4,057	4,389	4,504	4,581	4,742	4,766	4,601
Cystic kidney	661	651	715	746	797	766	826	838	956	922	941	919
Other urologic	845	748	886	1,091	1,151	1,240	1,425	1,518	1,636	1,701	1,780	1,800
Other cause	2,814	3,089	3,361	3,752	3,964	4,189	4,679	4,852	5,127	5,515	5,699	5,740
Unknown cause	1,270	1,238	1,369	1,455	1,547	1,734	1,766	2,023	2,161	2,248	2,361	2,464
Missing disease	293	302	108	96	71	79	84	101	62	45	117	207
<2 years	17,350	18,284	19,697	21,329	22,592	25,229	27,927	28,805	30,379	31,244	32,425	32,606
2-<5 years	8,631	9,435	10,702	11,613	12,661	13,639	15,224	15,911	17,127	18,265	18,788	19,178
5+ years	4,958	5,395	6,345	6,924	7,901	8,562	9,629	10,526	11,479	12,223	13,173	13,986
All	30,939	33,114	36,744	39,866	43,154	47,430	52,780	55,242	58,985	61,732	64,386	65,770
All with unknowns dropped	29,611	31,805	35,259	38,164	41,221	45,220	50,407	52,544	56,154	58,792	61,324	62,579

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

h mortality & causes of death

Table H.12

Annual mortality rates: hemodialysis patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	83	167	102	49	68	114	305	185	269	193	191	281	357
5-9	60	42	44	32	17	45	.	44	20	61	42	63	61
10-14	42	27	22	19	21	43	39	32	56	58	43	32	45
15-19	36	40	24	45	36	46	31	39	33	30	25	33	53
20-29	62	68	62	56	57	63	63	66	79	77	71	68	75
30-39	88	84	91	83	92	97	97	113	106	106	113	101	105
40-49	115	116	108	112	107	119	126	129	131	126	129	127	130
50-59	151	154	156	167	163	172	171	174	183	181	176	168	171
60-64	222	211	213	210	218	229	234	234	238	240	226	226	229
65-69	281	274	273	282	273	283	290	276	282	285	279	265	266
70-79	338	352	349	344	356	363	356	359	360	362	356	341	347
80+	505	543	526	453	501	504	508	482	509	510	469	470	470
Male	179	186	188	194	201	218	224	232	238	240	232	225	231
Female	168	168	172	178	190	200	206	210	221	223	224	224	230
White	184	193	197	205	219	235	241	251	262	264	265	264	275
Black	152	147	146	154	156	168	177	176	183	188	179	174	176
Other race	160	167	190	168	175	180	190	189	183	179	180	158	159
†Hispanic													
†Non-Hispanic													
Diabetes	264	271	280	293	287	305	306	309	305	295	291	280	282
Hypertension	139	153	164	172	189	204	206	221	231	233	232	230	231
Glomerulonephritis	88	98	108	111	118	124	133	143	156	150	156	150	155
Other cause	204	201	195	197	204	215	221	212	217	228	209	203	216
<2 years	195	198	200	208	227	243	245	250	256	252	248	243	250
2-<5 years	160	168	173	181	181	200	212	218	231	238	232	228	234
5+ years	105	117	126	140	141	148	158	163	170	177	177	173	175
All	174	178	181	187	196	209	216	221	229	232	228	224	230
ADJUSTED													
0-19	62	63	51	59	53	69	74	72	72	68	60	63	81
20-44	108	110	111	108	110	113	116	121	125	123	121	116	118
45-64	175	175	178	188	188	198	200	201	205	202	194	187	188
65-74	277	296	304	311	308	318	318	314	314	311	301	289	291
75+	388	398	414	413	438	435	429	427	434	435	424	409	408
Male	224	229	234	239	241	250	250	252	255	252	242	230	230
Female	198	204	207	210	214	221	220	219	222	220	214	210	214
White	230	239	244	248	253	264	261	263	265	261	254	246	249
Black	179	178	176	186	186	192	196	197	203	205	197	189	189
Other race	188	197	223	214	218	217	213	211	203	193	185	166	157
Diabetes	279	285	292	302	304	313	312	313	314	305	294	282	281
Hypertension	163	172	177	180	187	197	196	200	206	208	205	200	202
Glomerulonephritis	138	141	149	150	153	159	159	160	171	169	170	162	165
Other cause	207	213	212	212	213	222	225	219	219	224	209	200	204
<2 years	234	234	234	235	242	252	250	247	248	243	232	221	224
2-<5 years	214	218	220	223	221	231	233	235	241	240	232	224	227
5+ years	170	188	200	211	211	215	215	220	225	225	222	215	215
All	211	217	221	225	228	237	236	237	240	237	229	221	222

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

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Annual mortality rates: hemodialysis patients, by primary diagnosis, adjusted (H.12.1). Annual deaths per 1,000 patients: hemodialysis patients, by primary diagnosis (H.12.2). Hemodialysis patients: counts of total deaths, by primary diagnosis (H.12.3). Annual mortality rates: hemodialysis patients, unadjusted (H.12.4).

Table H.12 (continued)

Annual mortality rates: hemodialysis patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	366	213	264	111	100	160	106	254	331	172	242	.
5-9	70	67	61	68	30	40	51	37	105	32	79	55
10-14	36	39	26	44	33	53	79	25	27	47	68	36
15-19	40	27	38	39	39	32	31	38	40	32	51	42
20-29	68	63	66	65	58	54	55	54	59	61	60	58
30-39	106	104	107	107	96	94	99	91	94	90	88	83
40-49	125	123	129	122	124	120	124	121	126	126	126	122
50-59	170	170	171	168	166	166	172	168	171	169	168	166
60-64	224	217	219	216	213	216	223	216	215	211	220	213
65-69	265	263	260	261	261	264	266	262	263	258	257	253
70-79	349	331	336	339	333	338	347	341	341	340	333	332
80+	468	462	466	466	474	482	501	488	488	488	479	468
Male	230	226	228	229	225	227	233	229	232	230	232	229
Female	233	228	234	234	236	240	249	245	248	247	246	240
White	276	268	273	274	273	278	286	280	282	283	282	277
Black	178	178	182	180	178	179	188	184	190	186	188	187
Other race	156	168	177	189	192	192	197	193	187	185	180	174
†Hispanic				184	189	195	198	190	190	189	189	183
†Non-Hispanic				237	235	238	247	243	247	246	246	243
Diabetes	277	265	269	271	264	270	280	269	272	266	265	258
Hypertension	235	234	234	229	232	235	239	237	239	240	238	237
Glomerulonephritis	153	147	156	151	149	146	151	149	149	151	150	144
Other cause	215	212	214	221	219	218	224	224	228	231	233	231
<2 years	245	237	237	240	235	241	249	243	247	245	246	239
2-<5 years	239	238	244	240	237	237	244	238	239	240	236	233
5+ years	184	184	197	198	208	208	215	217	222	221	223	224
All	231	227	231	231	230	233	241	236	239	238	238	234
ADJUSTED												
0-19	77	65	62	57	56	56	58	57	65	58	73	61
20-44	116	112	115	114	111	109	110	105	105	106	105	102
45-64	186	179	180	178	175	174	179	174	176	175	175	172
65-74	289	280	284	285	284	286	292	287	288	286	284	280
75+	409	397	408	412	411	418	434	425	430	426	421	418
Male	227	219	220	220	215	215	219	213	214	211	211	208
Female	213	207	211	210	210	211	218	213	214	214	213	208
White	247	237	238	235	232	233	238	231	231	230	229	224
Black	189	186	191	190	187	185	192	188	192	190	190	188
Other race	152	154	162	169	171	173	178	174	171	166	161	155
Diabetes	276	264	267	266	261	261	270	260	260	254	252	244
Hypertension	202	197	201	195	194	195	200	195	196	196	195	193
Glomerulonephritis	163	157	161	160	157	156	159	156	158	159	158	154
Other cause	205	203	205	208	207	207	213	210	214	215	217	216
<2 years	219	211	209	207	202	202	208	202	203	201	201	196
2-<5 years	226	220	223	219	214	212	215	208	207	205	203	198
5+ years	216	212	222	224	229	232	239	236	239	238	237	235
All	220	214	216	215	212	213	218	213	214	212	211	207

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

h mortality & causes of death

Table H.13

Total patient deaths: hemodialysis patients, never on transplant wait list

by age, gender, race, ethnicity, 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	27	16	27	21	28	12	18	14	13	11	18	25
20-29	202	231	217	200	203	231	240	234	276	298	283	259	302
30-39	447	476	546	532	641	706	726	865	879	881	989	956	1,046
40-49	740	785	797	881	938	1,068	1,140	1,241	1,300	1,380	1,581	1,680	1,915
50-59	1,466	1,613	1,781	2,064	2,117	2,326	2,392	2,493	2,713	2,863	2,963	3,072	3,452
60-64	1,074	1,158	1,378	1,491	1,803	2,040	2,164	2,287	2,519	2,652	2,748	2,947	3,220
65-69	1,247	1,363	1,480	1,765	1,989	2,307	2,641	2,785	3,196	3,595	3,876	4,112	4,466
70-79	1,529	1,866	2,169	2,547	3,343	3,861	4,249	4,869	5,531	6,303	7,063	7,825	9,116
80+	314	394	516	601	912	1,088	1,338	1,593	2,018	2,411	2,693	3,288	3,854
0-19	35	38	25	33	28	37	27	30	30	29	22	31	41
20-44	966	1,052	1,102	1,092	1,266	1,367	1,452	1,658	1,686	1,794	1,971	1,964	2,221
45-64	2,963	3,211	3,617	4,076	4,436	5,004	5,210	5,462	6,001	6,280	6,593	6,950	7,714
65-74	2,175	2,516	2,787	3,283	3,924	4,527	5,027	5,514	6,251	6,996	7,660	8,350	9,528
75+	915	1,107	1,378	1,630	2,320	2,729	3,201	3,733	4,494	5,313	5,972	6,875	7,908
Male	3,943	4,495	4,959	5,606	6,492	7,495	8,121	8,883	9,835	10,828	11,539	12,408	14,021
Female	3,111	3,429	3,950	4,508	5,482	6,169	6,796	7,514	8,627	9,584	10,679	11,762	13,391
Unknown													
White	5,004	5,664	6,298	7,054	8,362	9,383	10,030	11,061	12,374	13,429	14,749	16,078	18,278
Black	1,882	2,063	2,348	2,803	3,306	3,930	4,463	4,869	5,570	6,399	6,797	7,410	8,328
Native American	16	21	66	62	96	108	143	163	182	211	262	250	286
Asian	*	*	35	47	96	139	189	220	236	261	373	396	469
Other/unknown	144	169	162	148	114	104	92	84	100	112	37	36	51
†Hispanic													
†Non-Hispanic													
Diabetes	865	1,154	1,633	2,201	2,732	3,495	4,099	4,836	5,574	6,381	7,537	8,598	10,122
Hypertension	928	1,241	1,676	2,153	2,835	3,459	3,889	4,650	5,488	6,236	7,039	7,852	8,834
Glomerulonephritis	737	890	1,095	1,247	1,484	1,652	1,856	2,075	2,385	2,403	2,624	2,683	2,922
Cystic kidney	207	268	283	331	376	441	512	467	529	557	584	555	588
Other urologic	105	150	225	297	325	431	552	610	652	733	737	691	808
Other cause	608	657	786	979	1,188	1,348	1,471	1,658	1,707	1,883	2,078	2,270	2,423
Unknown cause	723	788	879	786	847	1,053	1,030	1,040	1,215	1,357	1,167	1,130	1,265
Missing disease	2,881	2,776	2,332	2,120	2,187	1,785	1,508	1,061	912	862	452	391	450
<2 years	4,354	4,677	5,086	5,773	6,977	7,822	8,362	9,296	10,577	11,679	12,948	14,152	15,997
2-<5 years	2,286	2,624	3,001	2,862	3,172	3,679	4,027	4,267	4,751	5,266	5,647	6,234	7,306
5+ years	414	623	822	1,479	1,825	2,163	2,528	2,834	3,134	3,467	3,623	3,784	4,109
All	7,054	7,924	8,909	10,114	11,974	13,664	14,917	16,397	18,462	20,412	22,218	24,170	27,412
All with unknowns dropped	6,200	6,981	7,885	9,192	11,017	12,517	13,800	15,285	17,158	18,968	21,019	23,006	26,100

Patient age 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 ten or fewer patients are suppressed.

“. . .” Zero values in this cell.

Table H.13 (continued)

Total patient deaths: hemodialysis patients, never on transplant wait list

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	*	11	*	*	*	*	*	12	*	*	.
5-9	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*
15-19	17	*	13	17	17	11	17	15	17	*	27	17
20-29	302	261	283	298	280	253	266	277	302	311	291	296
30-39	1,107	1,145	1,247	1,248	1,154	1,201	1,285	1,210	1,266	1,259	1,245	1,156
40-49	1,977	2,149	2,416	2,467	2,675	2,845	3,120	3,177	3,490	3,636	3,661	3,541
50-59	3,714	3,964	4,328	4,614	4,970	5,421	6,223	6,505	7,123	7,510	7,809	7,991
60-64	3,277	3,489	3,803	3,923	4,093	4,492	4,954	5,105	5,286	5,458	5,976	5,922
65-69	4,848	5,082	5,354	5,736	6,069	6,455	6,842	6,981	7,320	7,354	7,594	7,538
70-79	10,245	10,741	12,128	13,303	14,423	15,952	17,560	18,049	18,841	19,413	19,671	19,706
80+	4,529	5,168	5,824	6,636	7,533	8,627	9,902	10,848	11,951	13,110	13,965	14,649
0-19	34	23	30	27	26	25	31	30	39	24	51	28
20-44	2,304	2,381	2,612	2,575	2,523	2,633	2,836	2,765	2,877	3,012	2,953	2,789
45-64	8,073	8,627	9,465	9,975	10,649	11,579	13,012	13,509	14,590	15,162	16,029	16,117
65-74	10,416	11,023	11,845	12,698	13,471	14,538	15,519	15,801	16,424	16,788	16,979	16,861
75+	9,206	9,968	11,461	12,977	14,554	16,496	18,785	20,077	21,688	23,089	24,251	25,032
Male	15,260	16,369	17,978	19,457	20,819	22,958	25,407	26,589	28,423	29,835	31,284	31,922
Female	14,773	15,653	17,435	18,795	20,404	22,313	24,776	25,593	27,195	28,240	28,979	28,905
Unknown												
White	19,788	20,721	22,748	24,463	26,393	29,099	32,018	33,480	35,617	37,563	38,824	39,073
Black	9,338	10,169	11,285	12,046	12,834	13,934	15,580	15,956	17,127	17,447	18,273	18,534
Native American	324	363	389	466	488	525	594	689	672	735	718	693
Asian	517	693	871	1,017	1,127	1,234	1,389	1,391	1,533	1,661	1,774	1,818
Other/unknown	66	76	120	260	381	479	602	666	669	669	674	709
†Hispanic				3,149	3,784	4,340	4,895	5,319	5,828	6,225	6,632	6,725
†Non-Hispanic				35,103	37,439	40,931	45,288	46,863	49,790	51,850	53,631	54,102
Diabetes	11,359	12,388	14,231	16,113	17,790	20,324	23,185	24,094	26,162	27,237	28,553	28,817
Hypertension	9,990	10,801	11,685	11,924	12,737	13,694	14,752	15,383	16,117	16,965	17,517	17,989
Glomerulonephritis	3,003	3,038	3,366	3,408	3,561	3,685	3,966	3,951	4,019	4,153	4,065	3,806
Cystic kidney	619	611	641	665	705	659	724	700	814	763	773	735
Other urologic	832	726	860	1,061	1,119	1,196	1,372	1,439	1,550	1,592	1,668	1,683
Other cause	2,707	2,965	3,211	3,580	3,745	3,959	4,395	4,569	4,813	5,143	5,312	5,264
Unknown cause	1,234	1,199	1,316	1,408	1,498	1,677	1,706	1,950	2,082	2,177	2,261	2,331
Missing disease	289	294	103	93	68	77	83	96	61	45	114	202
<2 years	17,119	17,995	19,387	20,958	22,172	24,759	27,426	28,226	29,788	30,675	31,796	31,900
2-<5 years	8,300	9,084	10,303	11,128	12,123	13,031	14,441	15,038	16,107	17,134	17,543	17,682
5+ years	4,614	4,943	5,723	6,166	6,928	7,481	8,316	8,918	9,723	10,266	10,924	11,245
All	30,033	32,022	35,413	38,252	41,223	45,271	50,183	52,182	55,618	58,075	60,263	60,827
All with unknowns dropped	28,743	30,752	33,982	36,601	39,355	43,132	47,893	49,590	52,887	55,252	57,356	57,812

Patient age 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 ten or fewer patients are suppressed.

. . Zero values in this cell.

h mortality & causes of death

Table H.14

Annual mortality rates: hemodialysis patients, never on transplant wait list

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	153	307	190	79	131	175	481	264	425	376	289	428	492
5-9	101	81	90	67	36	111	.	145	71	235	101	263	175
10-14	70	48	44	38	39	94	93	77	113	152	131	85	148
15-19	55	63	39	78	64	88	67	101	70	77	62	84	163
20-29	81	91	87	81	85	99	106	122	154	156	145	138	154
30-39	103	101	111	105	121	132	140	173	167	163	176	156	162
40-49	123	126	119	126	123	142	158	174	175	169	176	174	180
50-59	153	156	160	172	170	183	187	198	211	209	204	195	202
60-64	222	211	214	212	220	233	241	245	250	253	239	242	245
65-69	282	274	273	282	273	284	292	280	288	292	286	273	273
70-79	338	352	349	344	356	363	357	360	361	363	357	343	349
80+	505	543	526	453	501	504	508	482	509	510	469	470	470
Male	191	200	204	212	221	244	257	274	284	289	279	271	278
Female	179	180	186	193	207	219	230	239	252	254	257	255	263
White	197	208	214	223	241	261	273	292	308	309	311	309	321
Black	160	156	157	166	169	185	198	203	211	218	208	204	206
Other race	175	186	212	190	200	211	232	239	233	228	230	201	201
†Hispanic													
†Non-Hispanic													
Diabetes	269	277	286	300	296	317	324	334	333	321	317	305	308
Hypertension	147	163	174	184	203	221	226	247	260	264	263	261	264
Glomerulonephritis	101	115	127	132	143	153	169	188	208	201	210	202	210
Other cause	213	211	207	212	221	237	250	248	257	272	252	247	263
<2 years	207	211	215	225	246	267	276	292	301	298	293	285	294
2-<5 years	170	180	186	196	198	221	236	248	262	270	264	262	268
5+ years	116	130	141	155	158	168	183	193	201	209	209	205	209
All	185	191	195	203	214	232	244	257	268	271	268	263	271
ADJUSTED													
0-19	.	.	76	91	83	112	126	140	138	140	124	135	181
20-44	.	.	126	125	130	139	151	169	181	182	182	173	178
45-64	.	.	182	193	194	207	214	222	229	227	221	213	217
65-74	.	.	305	311	309	320	321	318	317	312	303	291	294
75+	.	.	417	414	436	436	431	428	431	431	419	404	403
Male	.	.	240	246	249	262	266	276	282	281	271	258	260
Female	.	.	213	217	222	230	233	237	242	239	235	230	237
White	.	.	250	256	262	276	277	286	292	289	282	273	280
Black	.	.	181	191	192	201	209	214	222	225	216	209	211
Other race	.	.	231	222	226	227	229	234	228	218	211	190	182
Diabetes	.	.	298	309	311	323	327	336	339	330	319	306	308
Hypertension	.	.	182	186	195	207	209	219	227	230	228	223	227
Glomerulonephritis	.	.	155	158	162	170	175	183	197	196	198	190	196
Other cause	.	.	219	219	223	234	242	243	246	252	238	228	236
<2 years	.	.	241	243	251	265	268	274	280	275	266	254	259
2-<5 years	.	.	225	229	229	241	247	255	263	263	255	248	253
5+ years	.	.	206	217	218	224	227	235	239	240	236	230	232
All	.	.	227	232	236	247	251	258	264	262	254	245	249

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.14 (continued)

Annual mortality rates: hemodialysis patients, never on transplant wait list

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	660	387	508	173	101	288	148	485	614	288	386	.
5-9	202	278	197	221	127	165	174	66	149	72	184	169
10-14	110	99	59	103	105	127	225	113	90	94	131	78
15-19	100	67	88	94	93	65	79	87	80	55	103	74
20-29	147	130	137	137	122	108	109	103	111	115	104	92
30-39	170	168	172	168	152	153	157	145	152	146	140	120
40-49	171	170	176	166	169	168	173	167	176	176	172	156
50-59	203	201	208	206	203	204	217	210	215	214	211	201
60-64	241	237	240	239	236	243	253	248	249	246	259	241
65-69	272	271	269	272	274	279	285	281	287	283	284	274
70-79	351	333	338	341	336	342	352	347	349	347	342	340
80+	469	462	466	466	474	482	501	489	489	488	480	469
Male	279	274	278	279	274	279	288	283	288	286	286	277
Female	267	261	269	270	273	279	292	286	292	292	289	277
White	323	314	319	322	322	329	339	334	337	339	336	324
Black	211	211	217	215	214	217	228	223	231	226	227	220
Other race	195	210	221	236	238	238	249	244	239	239	231	218
†Hispanic				234	241	248	252	244	244	243	241	224
†Non-Hispanic				279	278	283	295	290	296	296	295	285
Diabetes	302	290	296	299	292	300	314	303	309	303	302	288
Hypertension	271	269	271	265	270	275	282	281	284	285	281	276
Glomerulonephritis	210	204	217	211	212	211	220	213	216	221	215	198
Other cause	266	264	268	279	277	278	287	287	295	298	300	291
<2 years	290	280	280	284	279	288	300	293	297	294	292	278
2-<5 years	274	272	281	278	275	277	285	280	283	287	282	273
5+ years	222	224	241	242	256	258	269	269	280	280	285	281
All	273	268	273	274	274	279	290	285	290	289	288	277
ADJUSTED												
0-19	177	149	137	120	118	113	121	124	132	107	132	103
20-44	177	172	177	173	168	167	170	162	162	164	161	146
45-64	217	211	215	214	213	214	223	218	223	223	223	213
65-74	293	285	289	291	291	296	304	299	304	304	305	297
75+	405	394	405	410	408	416	432	422	429	426	422	416
Male	258	251	254	253	248	249	256	249	252	251	250	241
Female	238	232	238	237	238	241	251	245	249	250	248	236
White	279	269	271	269	266	269	278	270	272	272	271	259
Black	213	211	217	217	213	212	220	215	222	219	220	212
Other race	177	180	192	201	200	202	211	208	207	203	197	185
Diabetes	303	291	295	295	291	292	303	292	295	291	289	274
Hypertension	230	224	229	222	220	224	230	227	229	230	228	220
Glomerulonephritis	194	188	193	192	192	191	198	192	196	199	198	186
Other cause	240	239	242	248	246	247	255	253	259	261	262	256
<2 years	255	245	244	243	237	239	248	241	244	242	240	228
2-<5 years	254	247	252	249	244	243	249	241	242	242	238	228
5+ years	235	232	244	246	253	257	267	262	269	270	271	263
All	249	242	247	246	243	245	253	247	250	250	249	238

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

h mortality & causes of death

Table H.15

Total patient deaths: hemodialysis patients, on transplant wait list

by age, gender, race, ethnicity, 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	20	16	20	18	30	28	27	36	38	45	44	49	51	57	71
30-39	12	23	35	59	64	67	68	69	85	121	123	139	163	143	174	157	194	235
40-49	13	34	48	59	63	65	119	111	161	197	213	228	297	343	334	353	411	532
50-59	18	34	60	58	76	71	97	160	160	190	280	331	372	502	579	609	719	863
60-64	.	*	17	28	26	34	35	41	64	79	121	148	170	241	276	300	366	488
65-69	*	*	*	14	14	12	20	38	56	79	103	84	129	156	197	227	294	401
70-79	*	*	*	*	*	*	15	17	21	36	40	57	83	95	118	156	228	299
80+	.	.	.	.	*	.	.	.	*	*	*	.	*	.	*	*	12	14
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	25	50	71	113	111	119	138	147	189	231	255	284	328	339	354	369	402	527
45-64	25	63	103	111	134	138	199	264	309	383	518	600	719	934	1,058	1,101	1,345	1,662
65-74	*	*	*	19	14	16	33	52	75	113	133	132	190	235	289	346	474	629
75+	.	*	.	.	*	*	*	*	*	*	12	*	23	16	34	46	60	85
Male	30	82	107	157	157	170	223	275	327	422	534	589	755	869	1,018	1,091	1,393	1,630
Female	24	50	79	89	109	105	152	194	254	312	388	442	512	658	718	780	895	1,280
Unknown																		
White	37	79	125	167	181	186	241	284	348	442	517	604	731	839	961	1,041	1,279	1,635
Black	14	49	54	73	77	80	113	168	206	259	339	344	463	572	647	694	822	1,073
Native American	.	.	.	*	*	*	*	*	*	*	19	15	12	19	18	22	32	41
Asian	*	*	*	*	*	*	14	*	20	21	36	55	43	68	92	75	110	131
Other/unknown	*	*	*	.	.	.	*	.	.	*	11	13	18	29	18	39	45	30
†Hispanic										63	87	136	158	167	226	271	327	429
†Non-Hispanic										671	835	895	1,109	1,360	1,510	1,600	1,961	2,481
Diabetes	18	36	60	79	92	95	155	167	197	277	374	480	568	683	824	893	1,049	1,340
Hypertension	*	24	26	50	49	55	67	113	128	168	217	200	267	337	386	408	475	621
Glomerulonephritis	.	31	40	57	54	50	72	84	116	146	148	150	196	233	240	248	357	410
Cystic kidney	*	*	*	*	16	11	16	11	30	29	38	34	34	56	50	66	86	85
Other urologic	*	*	*	*	*	*	*	*	11	*	13	23	24	40	34	50	55	63
Other cause	*	19	27	26	31	43	48	61	72	77	110	117	147	129	166	174	206	304
Unknown cause	.	*	13	*	*	12	14	20	24	25	20	27	31	46	35	32	58	84
Missing disease	*	14	*	*	*	*	*	*	*	*	*	.	.	*	*	.	*	*
<2 years	18	34	60	64	75	87	120	142	164	201	241	289	310	364	387	355	379	462
2-<5 years	14	50	59	91	88	88	143	162	205	272	346	378	496	592	755	845	943	1,113
5+ years	22	48	67	91	103	100	112	165	212	261	335	364	461	571	594	671	966	1,335
All	54	132	186	246	266	275	375	469	581	734	922	1,031	1,267	1,527	1,736	1,871	2,288	2,910
All with unknowns dropped	52	126	172	238	257	263	359	449	557	707	891	991	1,218	1,452	1,685	1,801	2,186	2,796

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

Table H.16

Annual mortality rates: hemodialysis patients, on transplant wait list

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	.	.	365	.	.	.	.	.	.	157	137	119	149	.	.	.	.
5-9	.	.	.	.	.	.	42	.	.	.	.	.	.	53	.	.	.	.
10-14	43	105	58	.	48	.	.	21	19	.	.	42	79	.	20	56	34	28
15-19	25	36	.	15	7	7	19	14	21	27	19	22	16	15	11	25	26	27
20-29	17	20	20	25	20	21	17	26	25	23	24	24	27	23	26	28	29	32
30-39	22	24	31	45	43	44	36	34	34	47	45	42	46	38	40	35	39	46
40-49	32	44	48	41	39	38	55	42	53	54	55	52	59	60	53	52	55	68
50-59	47	52	83	68	71	52	58	81	67	63	83	79	74	87	81	76	77	87
60-64	15	63	91	110	88	89	78	62	83	84	97	98	94	110	97	91	98	120
65-69	59	141	99	107	102	78	74	113	113	133	135	90	107	113	105	99	112	135
70-79	275	453	74	184	83	44	162	133	137	173	142	158	163	127	125	135	162	166
80+	.	.	.	.	722	.	.	.	384	343	301	.	103	.	356	200	146	199
Male	29	43	48	55	48	46	48	51	51	57	62	59	67	67	67	65	73	80
Female	28	34	44	42	46	37	47	49	56	59	67	64	64	73	67	65	67	89
White	33	38	54	57	57	52	56	57	62	68	72	71	77	77	75	74	82	96
Black	21	43	37	41	36	31	36	44	45	49	55	49	56	61	59	57	60	75
Other race	39	25	30	22	21	24	45	30	37	36	64	64	46	66	57	53	58	60
†Hispanic	.	.	.	.	.	.	.	.	.	41	48	60	60	51	58	59	62	72
†Non-Hispanic	.	.	.	.	.	.	.	.	.	60	67	61	66	72	69	66	72	86
Diabetes	89	80	113	105	104	86	102	94	90	102	113	116	116	115	112	105	105	122
Hypertension	25	35	30	46	36	36	35	47	45	52	60	50	55	63	60	57	59	72
Glomerulonephritis	14	27	29	35	30	26	32	32	37	40	38	32	38	41	39	38	49	55
Other cause	30	38	48	40	44	40	38	42	50	46	52	49	53	54	49	50	58	71
<2 years	35	31	42	35	36	38	41	43	44	49	52	53	51	53	51	47	47	55
2-<5 years	22	49	50	62	52	45	57	56	59	61	68	63	70	73	76	75	74	83
5+ years	30	37	48	55	53	45	45	53	58	63	73	68	74	81	71	68	83	103
All	29	39	46	49	47	42	47	50	53	58	64	61	66	69	67	65	71	84
ADJUSTED																		
0-19	.	.	63	73	48	27	30	24	29	33	36	57	71	50	37	50	48	54
20-44	.	.	46	54	51	46	45	42	44	50	55	55	57	56	49	47	46	56
45-64	.	.	95	84	81	67	76	79	76	76	84	81	84	88	81	73	76	88
65-74	.	.	150	131	96	73	97	116	128	149	154	125	126	124	112	104	118	139
75+	.	.	164	63	410	167	210	122	154	123	191	140	189	138	134	141	153	174
Male	.	.	112	85	123	85	106	91	96	92	105	91	103	93	87	82	89	99
Female	.	.	98	74	98	57	71	73	76	85	98	88	90	89	81	78	81	97
White	.	.	135	96	135	87	111	101	98	101	112	101	111	100	92	87	94	108
Black	.	.	53	59	77	46	51	52	67	70	87	68	76	74	71	69	71	85
Other race	.	.	61	61	36	43	60	54	84	64	83	83	74	81	71	63	68	80
Diabetes	.	.	164	118	158	101	142	129	122	124	141	127	141	136	121	113	116	131
Hypertension	.	.	77	70	83	59	64	63	71	78	96	87	90	78	76	71	76	89
Glomerulonephritis	.	.	57	55	102	60	57	53	69	73	80	64	66	61	56	56	66	78
Other cause	.	.	92	74	105	68	67	61	69	63	72	64	76	70	66	63	69	84
<2 years	.	.	78	50	74	51	66	63	64	66	74	66	70	64	59	56	58	65
2-<5 years	.	.	112	93	127	77	102	88	92	90	103	87	97	89	88	87	91	101
5+ years	.	.	146	114	171	103	122	112	117	123	151	133	148	137	123	112	125	150
All	.	.	104	80	112	72	90	82	86	88	102	89	97	91	84	80	85	98

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

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Table H.17

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

by age, gender, race, ethnicity, 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	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	17	28	20	23	34	25	30	38	45	54	56	59	64
30-39	31	29	43	47	68	84	94	118	121	143	134	159	151
40-49	24	32	39	49	61	81	83	123	143	153	201	206	213
50-59	25	26	34	55	62	57	98	99	124	118	164	181	188
60-64	*	*	*	*	*	31	25	23	34	44	57	51	69
65-69	.	*	*	*	*	*	11	*	25	22	26	34	30
70-79	*	.	.	.	.	*	*	*	*	11	11	16	23
80+	*	.	.	.	.	*	.	.	.	.	.	*	*
0-19	*	*	*	*	*	*	*	*	11	*	*	*	*
20-44	62	73	80	94	134	147	158	217	238	278	287	324	316
45-64	43	46	61	85	99	131	172	184	229	234	325	332	369
65-74	*	*	*	*	*	13	16	11	28	31	35	47	46
75+	*	.	.	.	.	*	.	*	.	*	*	*	*
Male	73	88	93	114	156	212	241	285	315	347	425	442	482
Female	39	39	56	70	89	86	110	135	191	204	233	272	264
Unknown													
White	87	94	109	121	181	210	226	260	329	364	426	442	488
Black	21	30	34	53	59	82	112	144	167	176	212	253	240
Native American	.	.	.	*	*	.	*	*	*	*	*	*	11
Asian	.	.	.	.	*	*	*	*	*	*	12	*	*
Other/unknown	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
Diabetes	19	14	26	38	42	52	56	81	98	114	139	141	165
Hypertension	*	*	20	28	33	49	54	56	90	100	124	153	154
Glomerulonephritis	24	23	35	42	60	67	102	114	135	141	190	216	184
Cystic kidney	*	*	*	*	11	16	17	19	28	24	34	38	43
Other urologic	*	*	*	*	*	*	*	11	*	*	*	*	15
Other cause	*	13	12	13	24	33	49	53	75	73	99	116	127
Unknown cause	*	15	14	*	26	23	21	28	30	44	41	23	37
Missing disease	38	44	36	45	47	50	50	58	42	49	27	20	21
<2 years	25	21	18	15	20	18	11	14	28	31	24	29	28
2-<5 years	66	79	95	79	84	105	106	138	123	137	157	153	153
5+ years	21	27	36	90	141	175	234	268	355	383	477	532	565
All	112	127	149	184	245	298	351	420	506	551	658	714	746
All with unknowns dropped	100	111	131	167	217	274	324	386	472	505	615	687	707

Patient age 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 ten or fewer patients are suppressed.
 ". " Zero values in this cell.

Table H.17 (continued)

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

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	.	.	.	.	.	.	.	.	.	*	.
5-9	*	.	.	.	*	*	.	*	*	*	*	.
10-14	*	*	*	*	*	*	*	.	.	*	*	.
15-19	*	*	*	*	*	*	*	*	*	*	*	*
20-29	43	49	52	54	51	55	58	74	81	74	68	65
30-39	155	159	172	183	185	183	184	190	219	195	177	173
40-49	234	217	261	300	369	330	376	420	443	438	463	454
50-59	197	258	278	270	305	372	420	423	490	531	564	591
60-64	84	93	92	103	129	155	164	172	207	198	233	259
65-69	68	56	91	77	88	113	116	158	153	146	178	199
70-79	28	33	36	56	63	86	83	114	133	157	143	167
80+	*	*	*	*	*	*	*	*	*	12	*	12
0-19	*	*	*	*	*	*	11	*	*	11	*	*
20-44	317	297	339	380	412	395	397	451	487	486	434	441
45-64	396	479	516	530	627	700	805	828	953	950	1,071	1,101
65-74	86	77	120	115	130	173	174	236	247	259	282	324
75+	15	19	13	19	22	29	28	41	45	56	46	54
Male	489	525	572	650	700	770	854	919	1,044	1,028	1,048	1,141
Female	334	356	423	404	498	533	561	641	696	734	794	785
Unknown												
White	536	529	622	692	747	828	858	961	1,088	1,086	1,118	1,151
Black	270	328	349	333	417	442	513	543	595	614	652	702
Native American	*	11	12	*	*	12	12	22	12	20	19	21
Asian	*	12	12	20	23	21	32	33	44	42	51	50
Other/unknown	*	*	.	.	*	.	.	*	*	.	*	*
†Hispanic				75	87	104	122	121	145	152	148	159
†Non-Hispanic				979	1,111	1,199	1,293	1,439	1,595	1,610	1,694	1,767
Diabetes	189	191	203	250	260	326	361	394	423	432	462	496
Hypertension	193	235	243	242	289	294	359	350	398	410	421	464
Glomerulonephritis	224	220	282	284	340	340	362	443	483	463	530	531
Cystic kidney	34	45	56	71	90	86	88	93	108	98	101	116
Other urologic	24	22	23	23	29	39	39	55	61	81	65	58
Other cause	123	127	139	142	160	176	178	192	225	242	219	217
Unknown cause	25	35	47	40	30	40	27	32	42	36	44	43
Missing disease	11	*	*	*	.	*	*	*	.	.	.	*
<2 years	22	23	15	16	*	*	*	*	11	*	14	*
2-<5 years	134	152	115	134	108	124	130	113	121	108	115	119
5+ years	667	706	865	904	1,080	1,170	1,277	1,437	1,608	1,646	1,713	1,801
All	823	881	995	1,054	1,198	1,303	1,415	1,560	1,740	1,762	1,842	1,926
All with unknowns dropped	796	845	948	1,014	1,167	1,263	1,388	1,527	1,697	1,726	1,796	1,881

Patient age 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 ten or fewer patients are suppressed.

. " Zero values in this cell.

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Table H.18

Annual mortality rates: hemodialysis patients, returned to dialysis from transplant

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	.	.	.	.	.	.	.	365.3	.	.	181.5	373.3	.
5-9	424	103	.	65	.	.	.	.	.	.	.	.	69
10-14	35	79	41	16	.	18	59	.	79	33	54	54	31
15-19	31	27	16	28	47	37	34	60	29	25	28	24	45
20-29	51	75	49	40	51	35	36	43	44	54	47	53	52
30-39	83	63	73	71	68	78	76	81	83	80	79	76	71
40-49	91	80	96	86	77	90	86	108	120	101	106	100	93
50-59	159	99	105	128	119	95	161	134	140	118	157	144	139
60-64	262	121	95	74	124	248	177	171	172	178	192	158	182
65-69	.	425	494	75	270	400	322	122	329	198	220	210	157
70-79	.	.	.	.	.	414	500	296	145	413	238	291	345
80+	.	.	.	.	.	.	.	.	.	.	.	.	415
Male	87	81	74	70	72	89	95	98	100	92	102	98	100
Female	89	65	74	75	79	61	71	76	92	88	91	91	82
White	99	81	83	71	82	86	89	87	100	98	102	98	104
Black	60	65	53	68	61	66	78	93	94	79	88	92	77
Other race	92	51	78	126	41	63	125	112	66	57	109	87	72
†Hispanic													
†Non-Hispanic													
Diabetes	271	160	239	240	192	208	200	229	231	218	245	217	221
Hypertension	54	45	65	65	62	73	77	66	85	81	91	95	87
Glomerulonephritis	52	34	47	45	47	46	61	61	68	66	75	78	65
Other cause	105	113	81	75	88	95	98	106	107	94	92	84	96
<2 years	87	94	85	57	67	91	58	61	98	109	87	108	139
2-<5 years	80	69	81	71	71	81	87	120	104	94	104	99	99
5+ years	124	83	56	77	77	76	88	82	95	88	96	94	90
All	88	75	74	72	74	79	86	90	97	90	97	95	93
ADJUSTED													
0-19	.	.	.	.	.	.	54	60	69	59	58	74	91
20-44	.	.	.	.	.	.	92	91	103	100	102	102	99
45-64	.	.	.	.	.	.	148	156	155	148	169	154	160
65-74	.	.	.	.	.	.	362	220	287	231	268	218	189
75+	.	.	.	.	.	.	553	671	182	314	302	253	401
Male	.	.	.	.	.	.	304	274	200	184	195	182	212
Female	.	.	.	.	.	.	146	174	146	163	195	155	153
White	.	.	.	.	.	.	281	268	202	202	227	196	210
Black	.	.	.	.	.	.	121	146	123	126	143	128	141
Other race	.	.	.	.	.	.	144	184	154	173	168	121	142
Diabetes	.	.	.	.	.	.	369	346	247	242	291	221	232
Hypertension	.	.	.	.	.	.	134	172	139	129	156	165	175
Glomerulonephritis	.	.	.	.	.	.	121	133	109	126	113	137	147
Other cause	.	.	.	.	.	.	220	186	160	177	145	124	147
<2 years	.	.	.	.	.	.	191	164	134	154	166	150	176
2-<5 years	.	.	.	.	.	.	247	296	205	186	208	173	182
5+ years	.	.	.	.	.	.	287	274	203	192	231	195	203
All	.	.	.	.	.	.	228	225	172	173	194	169	185

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.18 (continued)

Annual mortality rates: hemodialysis patients, returned to dialysis from transplant

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	.	.	.	586	.	.	.	823	200	387	.
5-9	40	.	.	.	.	55	.	98	237	.	95	.
10-14	14	29	44	64	12	66	178	.	.	143	65	.
15-19	55	47	41	40	22	35	18	23	44	33	45	26
20-29	38	47	43	39	41	44	39	50	66	46	59	50
30-39	73	61	64	71	71	65	66	72	73	66	53	57
40-49	95	85	99	99	112	98	106	111	117	114	115	106
50-59	133	145	149	138	147	161	168	159	162	164	160	161
60-64	192	183	179	171	203	215	230	204	235	223	238	240
65-69	321	194	300	230	238	301	237	317	279	223	258	268
70-79	266	271	268	252	318	338	315	365	357	394	319	342
80+	405	603	1143	172	208	430	475	443	519	830	333	467
Male	94	92	94	100	103	108	114	117	128	117	116	121
Female	100	94	111	96	115	114	114	123	126	131	133	127
White	106	95	110	115	121	124	123	133	143	139	136	136
Black	84	90	88	74	91	92	102	101	108	104	107	109
Other race	65	82	67	78	80	80	94	107	103	94	94	95
†Hispanic				75	73	81	89	83	97	98	85	85
†Non-Hispanic				101	112	113	116	124	131	126	127	128
Diabetes	226	193	210	233	220	248	259	260	260	249	236	244
Hypertension	102	110	106	97	110	106	126	113	126	120	122	127
Glomerulonephritis	73	63	77	74	84	77	80	96	97	92	100	96
Other cause	84	86	92	88	100	106	96	103	118	117	105	105
<2 years	98	113	89	104	69	98	93	122	135	86	183	82
2-<5 years	96	108	84	100	91	103	123	115	131	116	126	130
5+ years	96	89	103	98	110	111	113	120	127	124	122	123
All	96	92	100	98	108	110	114	120	128	123	123	123
ADJUSTED												
0-19	86	68	64	96	65	61	70	73	96	88	110	59
20-44	94	85	88	94	90	88	85	93	101	91	97	87
45-64	151	156	148	144	138	144	152	162	172	148	170	154
65-74	268	264	289	220	215	258	250	281	284	242	259	252
75+	390	529	482	430	351	402	364	360	404	372	327	303
Male	192	223	211	191	171	188	183	196	216	186	191	178
Female	183	207	202	177	158	182	175	186	187	167	186	172
White	210	248	237	207	177	206	199	211	224	193	204	188
Black	168	169	159	149	145	159	153	158	170	153	164	151
Other race	139	132	160	128	130	132	151	158	148	130	137	136
Diabetes	259	302	291	234	212	255	253	256	264	231	235	224
Hypertension	165	183	172	175	150	162	153	158	165	146	165	152
Glomerulonephritis	150	145	155	140	133	123	114	140	160	137	160	139
Other cause	138	151	152	154	142	148	152	176	200	170	168	144
<2 years	170	201	187	167	131	150	138	162	180	141	183	147
2-<5 years	190	222	199	180	164	192	198	197	203	184	177	183
5+ years	224	237	249	217	217	243	235	237	237	228	208	211
All	189	216	205	183	163	185	180	191	202	176	188	175

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

h mortality & causes of death

Table H.19

Total patient deaths: CAPD/CCPD patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	.	*	*	*	*	*	*	*	*	*	*	14	12
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	.	.	.	*	*	*	*	*	*	*	*	*	*
15-19	.	*	*	*	*	*	*	*	11	*	*	*	*
20-29	*	*	15	26	39	38	55	42	69	66	62	77	68
30-39	*	24	53	61	101	147	186	198	220	228	228	249	308
40-49	13	26	55	111	169	198	291	275	310	304	372	418	534
50-59	23	47	124	203	270	404	453	494	551	557	593	680	771
60-64	11	28	85	152	224	294	377	422	459	468	523	575	624
65-69	*	38	89	168	194	304	391	472	552	531	598	727	790
70-79	19	40	128	220	261	404	528	642	739	768	879	1,006	1,235
80+	*	*	33	58	66	101	130	155	191	220	235	287	337
0-19	*	*	*	12	19	25	16	17	23	22	25	33	32
20-44	17	43	94	133	227	277	365	366	429	446	461	533	621
45-64	42	86	238	420	576	804	997	1,065	1,180	1,177	1,317	1,466	1,684
65-74	22	61	166	303	354	551	714	847	976	976	1,105	1,310	1,526
75+	16	23	84	143	167	258	335	422	506	543	607	710	836
Male	51	115	324	494	748	1,011	1,372	1,462	1,695	1,727	1,922	2,230	2,649
Female	47	102	265	517	595	904	1,055	1,255	1,419	1,437	1,593	1,822	2,050
Unknown													
	80	184	474	806	1,082	1,523	1,953	2,161	2,494	2,542	2,765	3,172	3,708
White	15	31	106	187	231	344	421	511	540	557	658	802	893
Black	*	.	*	*	15	24	23	29	46	41	49	45	44
Native American	.	*	*	*	*	18	22	*	24	18	37	30	47
Asian	*	*	*	*	*	*	*	*	*	*	*	*	*
Other/unknown													
†Hispanic													
†Non-Hispanic													
Diabetes	42	81	202	370	426	628	845	987	1,068	1,115	1,394	1,617	1,924
Hypertension	19	39	136	233	269	464	498	609	738	777	885	1,066	1,260
Glomerulonephritis	*	23	79	110	163	259	347	373	463	484	504	525	616
Cystic kidney	*	*	12	38	61	66	91	95	109	117	105	115	125
Other urologic	*	*	19	29	40	48	69	73	81	74	77	89	99
Other cause	16	21	47	100	140	181	251	279	302	276	326	388	435
Unknown cause	*	26	55	83	82	129	153	154	193	169	142	184	185
Missing disease	*	12	39	48	162	140	173	147	160	152	82	68	55
<2 years	93	197	507	847	950	1,330	1,547	1,751	1,938	1,949	2,219	2,535	2,899
2-<5 years	*	18	67	120	279	430	620	663	804	831	867	1,037	1,237
5+ years	*	*	15	44	114	155	260	303	372	384	429	480	563
All	98	217	589	1,011	1,343	1,915	2,427	2,717	3,114	3,164	3,515	4,052	4,699
All with unknowns dropped	88	190	530	926	1,252	1,780	2,268	2,556	2,911	2,990	3,368	3,865	4,509

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

Table H.19 (continued)

Total patient deaths: CAPD/CCPD patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	11	*	13	19	*	16	17	19	14	12	18
5-9	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*
15-19	*	13	18	*	12	14	10	10	11	*	*	*
20-29	72	99	79	85	65	71	74	51	56	56	69	59
30-39	339	355	367	348	313	254	237	231	194	221	169	163
40-49	584	604	688	706	632	601	544	510	496	475	434	447
50-59	868	951	1,082	1,095	1,095	1,070	1,017	959	934	896	885	873
60-64	734	705	732	818	797	738	684	644	599	554	549	576
65-69	915	913	1,039	1,027	986	906	788	776	757	683	649	614
70-79	1,403	1,641	1,721	1,859	1,708	1,680	1,586	1,482	1,359	1,309	1,258	1,273
80+	389	469	560	583	599	547	510	512	534	543	583	569
0-19	24	31	37	37	42	29	46	32	36	32	35	38
20-44	670	733	752	737	643	587	531	500	462	459	409	395
45-64	1,927	1,981	2,196	2,315	2,259	2,147	2,025	1,895	1,817	1,743	1,697	1,723
65-74	1,705	1,889	2,085	2,101	1,974	1,837	1,670	1,611	1,501	1,380	1,328	1,304
75+	1,002	1,134	1,235	1,368	1,319	1,296	1,214	1,159	1,149	1,155	1,162	1,152
Male	2,869	3,092	3,414	3,533	3,305	3,088	2,835	2,724	2,610	2,482	2,524	2,494
Female	2,459	2,676	2,891	3,025	2,932	2,808	2,651	2,473	2,355	2,287	2,107	2,118
Unknown												
White	4,167	4,463	4,784	4,917	4,759	4,474	4,115	3,895	3,705	3,600	3,434	3,419
Black	1,032	1,158	1,330	1,369	1,205	1,159	1,073	1,018	999	917	918	936
Native American	59	69	64	77	62	61	65	49	51	50	63	53
Asian	64	73	112	157	156	136	167	160	150	149	162	152
Other/unknown	*	*	15	38	55	66	66	75	60	53	54	52
†Hispanic				394	493	502	445	459	504	469	487	465
†Non-Hispanic				6,164	5,744	5,394	5,041	4,738	4,461	4,300	4,144	4,147
Diabetes	2,284	2,508	2,774	3,024	2,992	2,898	2,664	2,508	2,400	2,311	2,164	2,163
Hypertension	1,464	1,549	1,729	1,654	1,544	1,371	1,270	1,217	1,227	1,089	1,155	1,152
Glomerulonephritis	612	720	718	801	731	702	667	574	520	517	527	483
Cystic kidney	154	147	183	155	163	156	136	126	117	121	101	108
Other urologic	91	106	102	132	131	117	123	139	127	123	101	136
Other cause	513	518	585	590	487	470	457	464	415	435	427	415
Unknown cause	171	183	199	187	183	177	164	161	154	166	151	143
Missing disease	39	37	15	15	*	*	*	*	*	*	*	12
<2 years	3,216	3,392	3,521	3,575	3,315	3,009	2,762	2,584	2,470	2,340	2,306	2,194
2-<5 years	1,503	1,679	2,036	2,089	2,074	1,996	1,825	1,730	1,617	1,546	1,509	1,554
5+ years	609	697	748	894	848	891	899	883	878	883	816	864
All	5,328	5,768	6,305	6,558	6,237	5,896	5,486	5,197	4,965	4,769	4,631	4,612
All with unknowns dropped	5,151	5,580	6,093	6,334	5,999	5,654	5,256	4,962	4,751	4,554	4,428	4,417

Patient age 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 ten or fewer patients are suppressed.

h mortality & causes of death

Table H.20

Annual mortality rates: CAPD/CCPD patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	.	74	84	118	116	104	62	63	48	107	89	150	101
5-9	116	257	44	25	46	91	29	13	26	26	29	50	63
10-14	.	.	.	15	27	47	16	22	41	27	50	32	45
15-19	.	65	67	56	66	46	43	45	55	29	22	39	30
20-29	60	50	80	92	74	59	82	53	75	71	66	66	58
30-39	174	153	132	98	112	115	123	121	128	116	100	99	107
40-49	210	157	124	168	146	137	174	152	157	135	141	128	139
50-59	273	182	180	204	175	215	208	218	222	214	205	203	197
60-64	187	285	245	300	282	281	276	275	292	278	266	264	275
65-69	377	337	342	373	309	337	333	342	353	307	331	343	313
70-79	559	408	421	434	404	427	430	439	444	431	410	400	403
80+	1093	300	572	656	612	712	611	581	704	649	572	578	584
Male	261	208	215	211	203	215	244	237	253	234	229	229	236
Female	244	202	192	249	194	220	209	222	231	214	210	207	203
White	260	217	211	240	209	228	242	245	262	247	240	240	247
Black	208	167	180	194	164	181	180	192	182	165	165	171	161
Other race	342	83	169	181	176	210	193	136	209	155	186	127	131
†Hispanic													
†Non-Hispanic													
Diabetes	417	352	324	362	296	318	347	354	336	305	318	306	300
Hypertension	303	190	236	248	202	269	224	235	259	240	233	234	235
Glomerulonephritis	98	91	120	113	100	119	134	131	149	144	137	127	134
Other cause	220	201	168	202	205	193	215	209	226	205	177	186	181
<2 years	283	221	226	243	211	239	240	249	254	228	225	220	218
2-<5 years	111	177	148	192	190	199	221	215	244	244	229	237	242
5+ years	42	32	78	143	145	145	181	181	193	180	185	182	190
All	252	205	204	229	199	217	227	230	242	224	220	219	220
ADJUSTED													
0-19	.	.	80	101	86	104	85	69	64	54	60	74	75
20-44	.	.	110	117	115	119	130	122	128	117	113	108	111
45-64	.	.	187	235	215	235	246	244	252	229	222	218	217
65-74	.	.	323	416	378	390	389	402	405	366	368	371	369
75+	.	.	504	552	515	557	579	570	595	571	546	552	515
Male	.	.	244	276	262	271	285	286	300	278	268	266	266
Female	.	.	244	309	276	302	298	295	299	279	272	268	256
White	.	.	258	312	292	307	315	317	331	309	297	294	290
Black	.	.	239	274	237	261	264	275	264	241	229	247	235
Other race	.	.	213	270	247	292	289	221	278	247	291	206	207
Diabetes	.	.	338	403	370	381	400	401	405	371	363	365	351
Hypertension	.	.	195	246	219	265	244	239	250	234	228	226	226
Glomerulonephritis	.	.	203	194	154	176	190	190	201	180	192	184	186
Other cause	.	.	186	229	244	246	267	262	278	252	236	235	234
<2 years	.	.	290	297	268	289	285	282	286	258	245	238	228
2-<5 years	.	.	252	301	271	287	292	286	303	296	287	293	287
5+ years	.	.	150	272	270	284	309	318	328	300	303	301	302
All	.	.	244	292	269	287	293	292	302	280	272	270	263

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

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Annual mortality rates: CAPD/CCPD patients, by primary diagnosis, adjusted (H.20.1). Annual deaths per 1,000 patients: CAPD/CCPD patients, by primary diagnosis (H.20.2). CAPD/CCPD patients: counts of total deaths, by primary diagnosis (H.20.3). Annual mortality rates: CAPD/CCPD patients, unadjusted (H.20.4).

Table H.20 (continued)

Annual mortality rates: CAPD/CCPD patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	63	82	71	91	138	73	125	115	119	95	86	102
5-9	58	19	24	48	42	43	67	35	39	8	43	64
10-14	35	25	41	45	34	9	44	10	14	27	41	30
15-19	15	46	49	24	31	38	43	37	43	41	28	20
20-29	54	68	58	60	49	49	60	42	43	48	61	54
30-39	107	104	100	97	93	87	83	84	75	86	66	65
40-49	140	132	143	136	124	121	118	113	115	112	107	108
50-59	202	198	199	193	197	197	192	181	178	169	166	160
60-64	289	257	259	271	276	268	271	269	253	227	219	221
65-69	328	309	332	336	319	326	314	323	317	293	272	266
70-79	406	418	402	427	404	419	417	407	391	373	350	345
80+	579	568	615	608	641	585	580	570	576	532	537	515
Male	233	228	236	239	231	228	224	221	215	204	207	202
Female	219	216	218	220	216	216	216	207	202	196	180	179
White	254	251	254	257	256	255	250	245	239	232	222	218
Black	167	167	177	177	161	162	159	155	156	145	143	145
Other race	135	125	133	160	151	144	171	159	141	130	140	125
†Hispanic				150	171	176	158	154	167	154	155	145
†Non-Hispanic				238	230	228	228	223	215	207	200	198
Diabetes	315	314	315	322	318	322	312	302	294	279	259	259
Hypertension	246	233	241	237	236	223	223	216	223	201	207	201
Glomerulonephritis	123	133	125	134	124	125	127	116	107	110	114	104
Other cause	181	169	180	174	160	160	162	168	155	158	147	149
<2 years	223	218	215	216	211	208	206	196	190	179	177	169
2-<5 years	258	252	277	268	264	260	254	255	246	233	226	224
5+ years	185	188	187	211	196	203	208	205	208	215	196	205
All	227	223	227	230	224	222	220	214	209	200	194	191
ADJUSTED												
0-19	62	63	69	77	86	74	90	84	87	81	78	81
20-44	114	112	115	116	108	105	100	98	96	95	89	89
45-64	221	213	212	213	207	206	204	198	194	184	177	177
65-74	362	355	365	384	367	368	358	360	353	346	327	325
75+	544	542	538	567	540	552	563	546	533	541	511	518
Male	272	262	265	271	259	257	252	246	241	231	225	227
Female	265	263	266	271	260	262	262	256	253	246	227	224
White	300	293	293	296	287	287	283	277	272	263	250	246
Black	244	240	243	253	232	231	229	219	213	210	201	204
Other race	191	180	176	196	187	184	195	202	191	172	170	166
Diabetes	366	361	367	378	366	371	365	356	347	337	311	309
Hypertension	235	229	230	229	221	217	219	211	213	202	199	197
Glomerulonephritis	168	168	163	176	163	165	166	161	151	149	150	149
Other cause	238	227	226	232	213	207	204	209	203	204	196	194
<2 years	230	221	218	218	207	204	202	193	186	173	165	162
2-<5 years	302	295	311	309	297	292	287	281	274	261	246	241
5+ years	306	307	304	331	320	331	330	328	332	338	322	330
All	270	264	266	272	261	260	257	251	247	239	227	226

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender are excluded.

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

h mortality & causes of death

Table H.21

Total patient deaths: CAPD/CCPD patients, never on transplant wait list

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	.	*	*	*	*	*	*	*	*	*	*	13	12
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	.	.	.	*	*	*	*	*	*	*	*	*	*
15-19	.	*	*	*	*	*	*	*	*	*	*	*	*
20-29	*	*	15	26	39	38	55	41	65	63	59	68	60
30-39	*	24	53	61	101	147	186	192	203	207	202	218	270
40-49	13	26	55	111	169	198	291	270	289	284	350	382	465
50-59	23	47	124	203	270	404	453	490	538	536	575	649	732
60-64	11	28	85	152	224	294	377	420	455	463	514	557	597
65-69	*	38	89	168	194	304	391	472	548	527	594	720	784
70-79	19	40	128	220	261	404	528	642	739	768	878	1,003	1,235
80+	*	*	33	58	66	101	130	155	191	220	235	287	337
0-19	*	*	*	12	19	25	16	17	21	18	20	26	28
20-44	17	43	94	133	227	277	365	358	394	411	421	474	540
45-64	42	86	238	420	576	804	997	1,055	1,156	1,142	1,279	1,400	1,584
65-74	22	61	166	303	354	551	714	847	972	972	1,100	1,300	1,520
75+	16	23	84	143	167	258	335	422	506	543	607	710	836
Male	51	115	324	494	748	1,011	1,372	1,449	1,656	1,685	1,874	2,151	2,531
Female	47	102	265	517	595	904	1,055	1,250	1,393	1,401	1,553	1,759	1,977
Unknown													
White	80	184	474	806	1,082	1,523	1,953	2,150	2,449	2,479	2,696	3,057	3,556
Black	15	31	106	187	231	344	421	505	523	546	642	778	861
Native American	*	.	*	*	15	24	23	28	45	39	48	44	40
Asian	.	*	*	*	*	18	22	*	24	17	35	28	44
Other/unknown	*	*	*	*	*	*	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
Diabetes	42	81	202	370	426	628	845	978	1,036	1,077	1,349	1,557	1,831
Hypertension	19	39	136	233	269	464	498	607	731	772	877	1,046	1,227
Glomerulonephritis	*	23	79	110	163	259	347	368	452	469	487	501	584
Cystic kidney	*	*	12	38	61	66	91	94	108	109	102	111	116
Other urologic	*	*	19	29	40	48	69	73	81	74	77	88	97
Other cause	16	21	47	100	140	181	251	279	294	270	317	368	420
Unknown cause	*	26	55	83	82	129	153	154	191	167	138	178	179
Missing disease	*	12	39	48	162	140	173	146	156	148	80	61	54
<2 years	93	197	507	847	950	1,330	1,547	1,743	1,910	1,917	2,181	2,485	2,842
2-<5 years	*	18	67	120	279	430	620	658	784	795	833	976	1,155
5+ years	*	*	15	44	114	155	260	298	355	374	413	449	511
All	98	217	589	1,011	1,343	1,915	2,427	2,699	3,049	3,086	3,427	3,910	4,508
All with unknowns dropped	88	190	530	926	1,252	1,780	2,268	2,538	2,850	2,915	3,284	3,729	4,324

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

Table H.21 (continued)

Total patient deaths: CAPD/CCPD patients, never on transplant wait list

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	11	*	11	18	*	16	15	17	13	*	15
5-9	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*
15-19	*	*	14	*	*	*	11	*	*	*	*	*
20-29	57	80	59	59	39	42	49	35	36	36	49	25
30-39	287	288	297	271	236	181	167	153	130	146	113	101
40-49	526	511	573	582	499	457	400	384	355	355	292	296
50-59	816	879	974	971	956	923	849	803	763	734	699	638
60-64	709	677	700	752	733	662	615	567	526	481	467	483
65-69	897	895	1,022	980	938	861	740	723	694	632	585	531
70-79	1,401	1,632	1,715	1,850	1,690	1,651	1,554	1,445	1,328	1,264	1,196	1,216
80+	389	468	560	583	598	547	509	511	534	541	581	568
0-19	17	24	31	31	34	22	39	26	30	24	25	26
20-44	572	582	607	579	471	415	376	347	310	311	270	230
45-64	1,823	1,853	1,996	2,056	1,992	1,850	1,704	1,595	1,500	1,441	1,350	1,313
65-74	1,686	1,863	2,062	2,048	1,911	1,772	1,594	1,528	1,412	1,290	1,221	1,182
75+	1,001	1,132	1,235	1,365	1,315	1,287	1,209	1,151	1,144	1,147	1,141	1,133
Male	2,742	2,926	3,205	3,268	3,044	2,800	2,539	2,466	2,308	2,192	2,189	2,100
Female	2,357	2,528	2,726	2,811	2,679	2,546	2,383	2,181	2,088	2,021	1,818	1,784
Unknown												
White	3,996	4,232	4,510	4,577	4,412	4,118	3,725	3,547	3,339	3,250	3,036	2,966
Black	979	1,088	1,243	1,255	1,062	1,003	934	854	844	756	742	718
Native American	58	62	57	69	56	55	57	49	42	41	51	41
Asian	60	67	106	142	140	110	144	133	115	122	131	112
Other/unknown	*	*	15	36	53	60	62	64	56	44	47	47
†Hispanic				354	457	453	396	398	444	381	405	378
†Non-Hispanic				5,725	5,266	4,893	4,526	4,249	3,952	3,832	3,602	3,506
Diabetes	2,193	2,362	2,611	2,808	2,778	2,680	2,416	2,290	2,128	2,074	1,918	1,861
Hypertension	1,423	1,496	1,669	1,588	1,450	1,272	1,185	1,118	1,109	990	1,045	1,021
Glomerulonephritis	569	666	658	700	631	576	552	470	439	408	375	335
Cystic kidney	138	134	154	132	136	125	109	104	98	102	78	78
Other urologic	89	100	97	123	125	110	111	130	114	114	93	112
Other cause	483	484	540	542	425	412	399	382	363	363	358	339
Unknown cause	166	177	188	171	172	166	145	146	140	155	135	126
Missing disease	38	35	14	15	*	*	*	*	*	*	*	12
<2 years	3,145	3,284	3,411	3,434	3,164	2,885	2,621	2,454	2,325	2,214	2,162	2,021
2-<5 years	1,423	1,573	1,892	1,909	1,898	1,785	1,630	1,527	1,418	1,358	1,292	1,289
5+ years	531	597	628	736	661	676	671	666	653	641	553	574
All	5,099	5,454	5,931	6,079	5,723	5,346	4,922	4,647	4,396	4,213	4,007	3,884
All with unknowns dropped	4,927	5,272	5,730	5,872	5,498	5,120	4,715	4,438	4,200	4,018	3,827	3,711

Patient age 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 ten or fewer patients are suppressed.

" . " Zero values in this cell.

h mortality & causes of death

Table H.22

Annual mortality rates: CAPD/CCPD patients, never on transplant wait list

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	.	116	150	261	235	181	138	194	155	231	205	330	283
5-9	152	315	88	59	104	194	70	45	54	.	65	107	214
10-14	.	.	.	27	60	102	42	70	166	119	204	94	127
15-19	.	110	110	97	106	89	83	99	143	81	56	96	125
20-29	75	68	107	132	110	90	138	106	167	160	148	154	130
30-39	191	182	160	125	145	153	175	192	202	187	168	171	194
40-49	222	174	135	185	168	165	219	210	222	195	205	189	203
50-59	288	186	185	212	183	230	228	248	260	248	248	249	244
60-64	187	288	248	304	285	287	285	288	311	298	284	285	294
65-69	377	337	342	373	310	339	337	350	359	313	340	352	326
70-79	559	408	421	434	404	428	431	441	446	433	411	401	405
80+	1,093	300	572	656	612	712	613	584	707	649	574	578	584
Male	275	224	235	235	229	246	287	293	318	296	294	298	306
Female	269	226	210	279	222	256	248	277	295	276	274	274	272
White	285	237	232	268	237	262	285	303	331	314	308	310	320
Black	212	185	194	215	187	210	215	237	230	212	215	228	217
Other race	352	97	193	212	211	244	238	180	287	215	287	197	195
†Hispanic													
†Non-Hispanic													
Diabetes	429	367	336	375	314	341	380	406	387	356	374	362	354
Hypertension	313	203	248	264	219	295	251	271	307	285	280	283	286
Glomerulonephritis	110	104	140	136	123	149	174	182	214	210	206	194	209
Other cause	244	223	186	232	239	227	261	266	301	274	243	261	263
<2 years	302	240	244	268	237	271	283	311	328	296	294	292	291
2-<5 years	128	200	165	222	219	231	260	257	294	298	288	301	308
5+ years	48	38	95	168	172	179	223	229	245	230	237	238	251
All	272	225	223	255	226	251	269	285	307	287	284	286	290
ADJUSTED													
0-19	.	.	118	157	139	172	153	141	147	125	134	155	187
20-44	.	.	127	139	141	150	171	175	190	178	177	174	180
45-64	.	.	194	243	222	247	263	267	279	257	255	253	252
65-74	.	.	328	421	381	394	393	405	402	361	363	367	365
75+	.	.	517	570	532	573	592	578	579	555	534	529	496
Male	.	.	254	288	274	287	306	314	328	305	298	299	300
Female	.	.	253	321	289	318	315	315	321	300	296	292	281
White	.	.	267	325	305	324	336	344	359	336	327	325	322
Black	.	.	248	285	248	274	282	297	282	261	253	270	263
Other race	.	.	229	286	261	311	309	238	297	259	312	240	237
Diabetes	.	.	351	420	386	400	423	430	425	389	385	386	375
Hypertension	.	.	204	256	230	281	263	259	274	256	254	253	253
Glomerulonephritis	.	.	211	202	162	186	206	211	226	209	224	216	219
Other cause	.	.	195	240	258	262	288	291	313	287	272	277	279
<2 years	.	.	298	306	279	304	306	312	322	295	283	277	268
2-<5 years	.	.	263	315	285	303	311	306	323	315	311	318	314
5+ years	.	.	163	287	283	300	327	334	337	308	313	312	313
All	.	.	253	304	282	303	313	316	327	304	299	298	293

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.22 (continued)

Annual mortality rates: CAPD/CCPD patients, never on transplant wait list

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	141	186	156	170	259	112	265	237	213	181	154	163
5-9	176	64	48	115	124	85	157	90	109	.	116	37
10-14	94	62	101	115	68	29	88	17	44	60	87	68
15-19	29	106	136	67	60	82	107	101	102	95	64	41
20-29	120	162	135	132	101	95	135	94	88	98	137	74
30-39	192	186	185	180	166	155	151	155	140	156	118	103
40-49	218	203	220	217	195	189	186	182	176	183	165	156
50-59	257	256	262	256	269	271	264	257	256	249	239	216
60-64	314	289	293	308	320	318	328	334	321	290	284	289
65-69	341	325	357	360	342	354	348	365	356	342	321	305
70-79	410	421	407	433	412	427	425	416	407	388	366	362
80+	580	567	615	609	642	586	581	571	580	536	541	521
Male	308	306	319	325	320	317	314	319	305	295	298	278
Female	295	292	297	303	298	302	308	299	299	292	263	255
White	333	330	338	342	345	347	343	345	335	331	312	299
Black	227	230	248	252	226	231	234	224	230	209	206	196
Other race	217	192	208	250	241	221	271	260	231	220	248	204
†Hispanic				228	263	270	249	237	263	230	240	214
†Non-Hispanic				322	314	314	318	318	308	301	286	274
Diabetes	380	375	380	389	388	398	387	383	367	356	333	323
Hypertension	302	289	306	306	305	293	300	291	298	271	279	262
Glomerulonephritis	194	217	208	221	205	203	219	206	202	200	188	168
Other cause	264	252	266	262	244	244	249	261	253	260	242	230
<2 years	300	295	294	300	296	296	298	290	279	263	257	238
2-<5 years	334	328	362	349	353	349	345	351	344	338	324	308
5+ years	247	262	261	304	271	284	291	300	313	331	296	306
All	302	299	308	315	309	310	311	309	302	293	281	267
ADJUSTED												
0-19	145	134	139	151	165	136	166	170	167	157	147	130
20-44	188	184	191	192	178	173	167	166	158	160	150	138
45-64	262	258	262	266	261	263	262	261	259	253	243	235
65-74	360	354	368	390	371	375	368	374	369	368	351	346
75+	525	524	521	552	524	532	545	532	521	533	501	502
Male	309	300	309	316	304	302	298	296	290	283	275	269
Female	294	294	298	307	295	297	300	296	296	293	272	262
White	335	329	332	336	327	331	327	325	320	317	300	290
Black	276	275	284	298	271	267	267	258	256	252	243	237
Other race	224	208	209	235	228	222	240	249	242	223	232	212
Diabetes	395	391	401	416	403	409	404	401	388	384	358	348
Hypertension	263	256	262	263	257	255	258	253	251	241	238	229
Glomerulonephritis	206	211	210	223	206	205	208	205	203	203	198	187
Other cause	287	275	276	286	264	260	257	262	260	265	255	246
<2 years	274	265	265	266	255	253	253	247	238	224	212	201
2-<5 years	335	330	352	349	340	334	332	328	322	314	298	283
5+ years	317	320	321	354	337	347	342	348	355	369	352	356
All	303	298	305	313	301	301	300	297	293	289	275	266

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

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Table H.23

Total patient deaths: CAPD/CCPD patients, on transplant wait list

by age, gender, race, ethnicity, 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	*	*	*	*	*	*	*	13	13	14	14	15	*	11	11	15	21
30-39	12	12	*	11	17	29	34	39	42	35	38	45	42	39	42	37	43
40-49	12	12	*	18	30	27	44	66	59	76	83	68	60	79	61	87	108
50-59	*	11	*	12	18	27	38	60	72	76	86	107	105	113	107	133	175
60-64	*	*	*	*	15	11	13	14	32	42	44	46	47	42	42	58	67
65-69	*	*	*	*	*	*	*	*	29	23	27	32	33	36	32	43	59
70-79	.	.	*	*	.	*	*	*	*	*	*	11	23	13	16	36	33
80+	.	.	.	.	.	.	*	.	.	*	.	.	*	.	.	*	.
0-19	*	*	.	*	*	*	.	.	*	*	*	.	*	*	*	*	*
20-44	22	19	12	23	34	52	72	81	80	81	95	85	81	87	78	90	111
45-64	13	19	17	28	50	50	63	111	138	162	170	196	183	197	185	240	303
65-74	*	*	*	*	*	*	*	*	33	31	31	41	52	47	48	69	81
75+	.	.	.	.	.	*	*	.	*	*	*	*	*	*	.	12	11
Male	17	23	21	33	57	62	78	101	134	148	159	179	161	177	162	229	279
Female	20	18	12	28	33	50	69	97	122	135	146	145	161	160	154	186	233
Unknown																	
White	22	33	26	48	69	81	106	144	177	179	182	225	205	214	182	262	312
Black	12	*	*	11	19	29	35	49	68	87	101	80	100	95	104	116	159
Native American	*	*	*	.	*	.	.	*	*	*	*	.	.	*	*	11	*
Asian	.	*	*	*	.	*	*	*	*	11	15	15	*	18	17	19	31
Other/unknown	*	.	.	.	.	.	.	.	*	*	*	*	*	*	*	*	*
†Hispanic									23	20	26	26	37	42	59	65	62
†Non-Hispanic									233	263	279	298	285	295	257	350	450
Diabetes	17	23	19	25	44	43	75	93	122	125	122	152	137	165	139	177	227
Hypertension	*	*	*	*	17	22	26	32	37	60	51	49	59	63	59	65	92
Glomerulonephritis	*	*	*	12	14	24	16	23	51	47	65	62	57	56	52	95	95
Cystic kidney	*	*	*	*	*	*	*	17	*	11	17	15	16	*	11	18	18
Other urologic	.	.	.	*	*	*	*	*	*	*	*	*	*	*	*	*	17
Other cause	*	*	*	*	*	13	18	25	27	33	38	31	40	30	44	45	51
Unknown cause	*	*	*	*	*	*	*	*	*	*	*	11	*	*	*	*	12
Missing disease	*	*	.	*	*	*	*	.	.	.	.	.	.	.	.	.	.
<2 years	14	19	14	25	28	41	63	70	85	97	77	96	87	95	75	105	125
2-<5 years	16	17	12	23	41	41	45	90	114	119	141	140	155	146	138	173	213
5+ years	*	*	*	13	21	30	39	38	57	67	87	88	80	96	103	137	174
All	37	41	33	61	90	112	147	198	256	283	305	324	322	337	316	415	512
All with unknowns dropped	34	39	31	60	89	110	142	194	249	277	295	312	307	324	303	398	496

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Patient age 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 ten or fewer patients are suppressed.
 ". " Zero values in this cell.

Table H.24

Annual mortality rates: CAPD/CCPD patients, on transplant wait list

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	.	114	.	.	.	.	.	.	.	105	109	.	.	68	72	.	44
5-9	57	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	84
10-14	.	.	.	20	38	35	.	.	60	19	.	.	22	.	20	17	34
15-19	.	.	.	37	.	22	.	.	13	50	21	.	.	51	45	34	11
20-29	8	6	6	23	27	27	20	41	35	31	38	37	24	32	27	34	48
30-39	59	60	30	28	26	57	49	48	54	43	49	57	45	41	44	39	46
40-49	86	54	21	48	65	47	61	75	52	77	69	59	55	66	45	63	71
50-59	50	88	58	53	66	75	73	84	95	76	92	107	97	88	83	94	109
60-64	150	73	80	145	257	132	92	84	142	152	144	161	125	117	84	111	120
65-69	105	119	167	215	123	58	86	52	164	156	130	163	174	154	124	142	168
70-79	.	.	449	432	.	188	262	52	122	192	156	150	259	99	94	165	162
80+	.	.	.	.	.	.	.	.	.	.	.	.	567	.	.	449	.
Male	51	55	37	45	65	55	58	61	70	73	76	85	74	78	64	85	97
Female	53	39	23	43	36	52	51	63	66	70	71	72	72	65	59	65	77
White	42	52	35	50	59	59	60	73	77	75	74	92	80	78	61	82	91
Black	67	32	18	33	37	48	46	50	60	71	78	63	72	66	68	69	91
Other race	136	47	31	30	18	21	33	19	34	50	53	48	36	51	49	55	55
†Hispanic	.	.	.	.	.	.	.	.	64	46	53	49	62	61	81	82	70
†Non-Hispanic	.	.	.	.	.	.	.	.	69	74	76	83	75	73	58	73	89
Diabetes	134	131	94	92	118	96	126	139	141	142	130	162	136	150	111	132	153
Hypertension	50	22	23	48	52	57	51	49	52	81	63	62	69	69	62	62	81
Glomerulonephritis	24	28	15	25	27	36	19	23	45	35	49	46	41	38	33	58	57
Other cause	36	29	15	33	28	37	36	53	45	47	62	55	60	43	50	50	60
<2 years	41	44	26	36	33	41	49	48	48	56	44	55	48	50	38	52	57
2-<5 years	83	61	35	58	72	65	55	85	96	86	91	91	100	86	72	81	96
5+ years	37	32	34	44	61	67	67	58	71	81	98	100	76	84	81	97	114
All	52	47	30	44	51	54	54	62	68	71	73	78	73	71	62	75	86
ADJUSTED																	
0-19	.	.	.	.	.	.	.	.	24	84	61	27	14	41	44	43	65
20-44	.	.	.	.	.	.	.	.	67	70	72	73	61	62	49	54	65
45-64	.	.	.	.	.	.	.	.	114	114	111	127	114	106	89	104	120
65-74	.	.	.	.	.	.	.	.	180	199	178	196	212	199	160	173	194
75+	.	.	.	.	.	.	.	.	242	277	463	374	490	246	69	232	288
Male	.	.	.	.	.	.	.	.	145	128	135	156	161	130	87	126	150
Female	.	.	.	.	.	.	.	.	126	156	173	165	180	136	96	113	130
White	.	.	.	.	.	.	.	.	154	159	163	184	193	151	101	133	147
Black	.	.	.	.	.	.	.	.	89	123	143	127	139	113	84	107	140
Other race	.	.	.	.	.	.	.	.	146	72	94	87	73	92	64	99	85
Diabetes	.	.	.	.	.	.	.	.	227	219	223	248	246	224	154	195	209
Hypertension	.	.	.	.	.	.	.	.	97	126	122	138	147	107	73	98	125
Glomerulonephritis	.	.	.	.	.	.	.	.	78	100	126	98	97	71	49	85	94
Other cause	.	.	.	.	.	.	.	.	77	78	113	97	127	74	58	73	96
<2 years	.	.	.	.	.	.	.	.	80	85	85	90	93	75	49	71	81
2-<5 years	.	.	.	.	.	.	.	.	175	172	182	179	208	154	101	124	143
5+ years	.	.	.	.	.	.	.	.	199	215	256	282	283	227	157	213	251
All	.	.	.	.	.	.	.	.	135	141	154	160	168	133	92	120	141

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

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Table H.25

Total patient deaths: CAPD/CCPD patients, returned to dialysis from transplant

by age, gender, race, ethnicity, 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	36	46	54	50	43	49	34	33	26	33	
40-49	*	20	21	19	32	37	49	38	59	57	63	66	81	88	64	92	73	70	71	66	67	
50-59	*	*	18	11	22	25	14	28	26	38	54	67	63	57	56	52	51	46	59	56	61	
60-64	*	*	.	*	*	*	*	11	15	17	*	15	19	25	20	*	16	16	13	15	22	
65-69	*	*	*	.	*	*	*	*	*	13	*	16	16	16	*	*	11	*	12	15	14	
70-79	.	.	*	*	*	*	*	*	*	*	12	*	*	*	12	15	*	*	18	*	11	
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	*	*	.	.
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	17	33	33	37	51	62	69	72	91	85	89	88	106	124	106	98	100	81	81	65	84	
45-64	12	18	30	25	45	47	36	57	68	82	91	106	125	120	107	119	100	97	106	109	116	
65-74	*	*	*	*	*	*	11	*	*	14	18	21	22	24	16	22	17	18	28	22	23	
75+	.	.	.	.	.	.	*	.	.	*	*	*	.	*	*	*	*	*	*	*	*
Male	19	32	46	33	72	71	66	73	98	113	110	122	141	136	117	125	109	108	110	100	112	
Female	13	24	22	35	39	49	56	65	74	74	94	101	117	138	117	120	114	93	110	102	117	
Unknown
White	30	47	58	59	92	103	93	108	137	151	160	172	195	204	165	183	160	147	163	131	159	
Black	*	*	*	*	17	16	26	29	34	32	35	45	57	58	55	55	54	46	49	63	58	
Native American	.	*	.	*	.	*	.	.	*	*	*	*	*	*	*	*	.	*	*	*	*	
Asian	.	*	*	.	*	.	*	*	.	*	*	*	*	*	11	*	*	*	*	*	*	
Other/unknown	*	.	.	*	.	.	.	.	.	.	.	.	.	.	.	.	*	.	.	*	.
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	18	16	17	30	18	18	22	12	20
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	240	258	217	215	205	183	198	190	209
Diabetes	*	12	19	23	29	38	42	43	57	53	56	65	65	71	56	69	55	60	50	33	53	
Hypertension	*	*	*	*	12	14	12	16	27	26	34	43	43	38	44	29	35	36	44	34	45	
Glomerulonephritis	*	16	20	11	34	34	35	36	41	57	66	61	87	86	80	72	67	57	74	87	67	
Cystic kidney	*	*	*	*	*	*	*	*	15	14	*	16	20	24	*	12	*	*	*	11	13	
Other urologic	.	.	.	*	*	*	.	*	*	.	*	*	*	*	11	*	*	*	*	*	*	
Other cause	*	*	*	*	17	16	19	23	21	27	23	27	31	42	34	45	46	23	36	25	38	
Unknown cause	*	*	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Missing disease	*	*	*	*	*	*	*	*	*	*	*
<2 years	*	*	*	*	*	14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.
2-<5 years	13	25	23	18	31	46	34	38	42	36	39	38	35	41	27	21	27	15	14	*	16	
5+ years	16	29	40	46	71	60	81	92	124	143	158	178	217	231	206	224	195	185	205	193	213	
All	32	56	68	68	111	120	122	138	172	187	204	223	258	274	234	245	223	201	220	202	229	
All with unknowns dropped	28	51	68	61	107	118	118	128	165	180	196	215	252	268	229	238	217	195	216	194	225	

Patient age 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 ten or fewer patients are suppressed.

." Zero values in this cell.

Table H.26

Annual mortality rates: CAPD/CCPD patients, returned to dialysis from transplant

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

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	.	.	.	.	134	.	.	.	.	.	118	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	45	.	34	51	51	27	.	.	74	33	.	61	.	90	95	.	.	.	131
10-14	.	.	61	.	32	74	63	16	30	45	30	.	31	38	49	.	30	33	.	30	50	29	.
15-19	150	131	80	14	35	121	30	19	24	46	34	43	33	28	55	34	41	50	32	10	13	15	.
20-29	85	43	31	47	34	50	29	48	51	45	37	39	38	67	63	76	69	42	45	54	36	59	.
30-39	53	65	115	99	78	110	95	71	96	102	88	68	60	87	96	102	92	101	75	72	59	92	.
40-49	158	81	191	138	109	126	139	164	91	146	135	115	131	138	162	108	175	152	148	154	136	135	.
50-59	87	234	114	215	154	249	267	110	232	155	164	188	221	177	201	192	188	203	156	201	191	174	.
60-64	.	266	55	.	231	296	251	125	151	292	349	105	313	257	402	235	131	187	234	220	225	217	.
65-69	.	318	129	314	.	316	375	547	286	176	300	147	303	336	403	197	276	465	360	296	262	385	.
70-79	.	.	.	.	389	310	.	890	415	252	181	651	366	166	505	524	521	221	283	620	226	443	.
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	526	.	.	.	.
Male	52	86	106	118	73	134	115	100	97	119	120	97	121	124	145	117	147	141	134	144	121	141	.
Female	157	76	99	63	87	92	87	88	90	92	84	86	93	108	129	114	117	114	94	110	101	115	.
White	104	97	108	99	87	126	110	96	99	117	114	103	114	128	148	125	148	139	125	136	107	137	.
Black	.	13	81	81	44	78	86	95	85	83	75	60	93	95	114	92	101	106	89	109	128	107	.
Other race	227	107	92	37	79	56	23	64	20	17	65	90	72	69	101	117	74	74	68	71	65	112	.
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	86	84	92	154	86	84	112	53	93	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	119	142	118	129	130	115	126	117	131	.
Diabetes	.	132	253	274	254	231	264	285	247	303	257	238	272	243	274	246	331	293	349	334	204	285	.
Hypertension	83	65	151	98	69	131	116	71	92	123	95	104	143	118	124	134	91	131	116	152	111	161	.
Glomerulonephritis	91	62	68	73	35	81	74	67	57	68	84	75	77	101	117	103	87	91	79	96	111	86	.
Other cause	111	95	88	71	82	114	78	76	90	80	76	61	75	90	121	83	142	120	86	101	83	120	.
<2 years	.	58	32	84	74	104	140	77	92	62	105	76	87	95	40	35	.	38	53	62	58	.	.
2-<5 years	69	94	114	85	56	94	126	83	79	95	80	81	84	80	109	88	82	118	90	75	43	88	.
5+ years	120	79	108	101	93	127	87	102	99	113	109	95	114	125	144	121	139	128	115	131	117	131	.
All	90	82	103	94	79	116	103	95	93	106	102	92	107	116	137	116	131	126	112	125	110	127	.
ADJUSTED																							
0-19	.	.	.	.	.	.	.	.	.	.	.	.	.	.	48	40	44	63	63	29	21	29	.
20-44	.	.	.	.	.	.	.	.	.	.	.	.	.	.	92	80	75	85	87	102	65	76	.
45-64	.	.	.	.	.	.	.	.	.	.	.	.	.	.	190	143	134	140	143	164	147	127	.
65-74	.	.	.	.	.	.	.	.	.	.	.	.	.	.	438	299	255	236	243	431	263	353	.
75+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	155	45	157	69	124	203	196	336	.
Male	.	.	.	.	.	.	.	.	.	.	.	.	.	.	207	156	150	151	160	243	185	221	.
Female	.	.	.	.	.	.	.	.	.	.	.	.	.	.	210	132	132	118	133	182	125	121	.
White	.	.	.	.	.	.	.	.	.	.	.	.	.	.	242	150	154	162	178	276	179	205	.
Black	.	.	.	.	.	.	.	.	.	.	.	.	.	.	157	136	124	109	111	144	116	104	.
Other race	.	.	.	.	.	.	.	.	.	.	.	.	.	.	213	130	122	58	65	53	122	149	.
Diabetes	.	.	.	.	.	.	.	.	.	.	.	.	.	.	327	208	206	180	213	338	234	296	.
Hypertension	.	.	.	.	.	.	.	.	.	.	.	.	.	.	139	128	120	151	147	220	127	117	.
Glomerulonephritis	.	.	.	.	.	.	.	.	.	.	.	.	.	.	96	94	91	88	77	103	117	128	.
Other cause	.	.	.	.	.	.	.	.	.	.	.	.	.	.	190	106	124	112	118	118	101	113	.
<2 years	.	.	.	.	.	.	.	.	.	.	.	.	.	.	142	90	41	53	73	139	122	75	.
2-<5 years	.	.	.	.	.	.	.	.	.	.	.	.	.	.	203	141	164	162	172	224	126	193	.
5+ years	.	.	.	.	.	.	.	.	.	.	.	.	.	.	338	227	286	240	250	356	250	341	.
All	.	.	.	.	.	.	.	.	.	.	.	.	.	.	210	144	142	137	148	214	156	170	.

Reference cohort is 2001 prevalent ESRD patients.
 Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.
 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.
 U.S. & territories only; patients of unknown age or gender 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.



h mortality & causes of death

Table H.27

Total patient deaths: transplant patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	*	*	*	*	*	*	*	*	*	*	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	12	*	*	*	*	12	*	*	*	*	.	*	*
15-19	*	21	11	13	14	*	14	17	17	16	*	*	*
20-29	35	51	48	84	73	74	77	84	91	77	77	73	66
30-39	88	90	141	153	203	184	247	230	271	254	255	252	248
40-49	103	123	150	142	185	189	250	262	312	358	415	425	429
50-59	64	93	116	147	151	211	217	292	322	365	414	429	386
60-64	20	13	22	28	53	61	75	86	107	117	177	211	226
65-69	*	*	*	14	17	16	29	25	56	62	108	105	161
70-79	*	*	*	*	*	*	*	11	16	28	40	37	75
80+	.	*	.	*	.	*	*	*	*	*	*	*	*
0-19	27	31	21	21	25	27	36	38	30	29	15	22	19
20-44	159	198	262	308	379	361	447	432	510	511	540	545	515
45-64	151	172	215	246	286	358	419	522	593	660	798	845	840
65-74	*	*	*	16	17	22	35	36	67	84	144	138	223
75+	*	*	*	*	*	*	*	*	*	*	*	*	16
Male	230	277	319	386	464	503	618	686	831	866	1,022	1,044	1,038
Female	110	133	190	208	244	267	321	344	376	425	482	516	575
Unknown													
White	249	307	409	477	529	601	715	773	921	968	1,150	1,189	1,254
Black	73	84	80	95	161	149	199	229	253	288	314	331	311
Native American	*	*	.	*	*	*	13	13	*	11	16	*	16
Asian	.	.	*	*	*	*	*	*	14	14	18	28	25
Other/unknown	17	18	18	13	13	11	*	*	*	*	*	*	*
†Hispanic													
†Non-Hispanic													
Diabetes	48	64	103	116	177	185	260	281	349	385	427	504	549
Hypertension	27	36	48	47	83	90	141	140	160	184	240	280	264
Glomerulonephritis	60	78	103	126	126	163	201	229	247	296	344	330	337
Cystic kidney	16	19	21	32	37	42	52	64	83	65	111	100	100
Other urologic	*	*	13	*	11	14	21	20	26	31	35	51	37
Other cause	19	23	30	54	65	98	94	118	130	138	170	140	156
Unknown cause	35	31	55	53	59	55	51	43	77	67	90	70	85
Missing disease	132	155	136	158	150	123	119	135	135	125	87	85	85
<2 years	161	160	163	168	189	168	174	202	216	182	171	165	164
2-<5 years	153	198	256	230	283	297	391	348	423	412	453	434	419
5+ years	26	52	90	196	236	305	374	480	568	697	880	961	1,030
All	340	410	509	594	708	770	939	1,030	1,207	1,291	1,504	1,560	1,613
All with unknowns dropped	289	361	438	529	639	704	882	981	1,121	1,214	1,408	1,488	1,523

Patient age 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 ten or fewer patients are suppressed.
 ". ." Zero values in this cell.

Table H.27 (continued)

Total patient deaths: transplant patients

by age, gender, race, ethnicity, primary diagnosis, & patient vintage

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	*	*	*	*	*	*	*	*	*	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*
15-19	12	13	18	14	16	16	*	14	11	16	19	11
20-29	78	60	57	57	64	55	64	48	71	73	44	52
30-39	275	261	273	248	295	266	289	271	297	263	246	244
40-49	423	554	603	639	602	645	624	651	731	715	651	621
50-59	543	589	632	755	810	851	950	1,015	1,040	1,049	1,153	1,121
60-64	255	297	332	357	415	393	480	499	560	556	651	662
65-69	185	218	289	291	331	401	381	484	502	532	603	663
70-79	91	131	182	222	227	325	398	443	525	564	685	722
80+	*	*	*	*	18	17	18	37	40	49	64	82
0-19	20	22	31	22	30	24	29	24	21	34	34	19
20-44	544	552	577	596	634	604	603	607	677	619	560	551
45-64	1,030	1,209	1,320	1,460	1,552	1,606	1,804	1,877	2,022	2,037	2,185	2,149
65-74	255	325	433	466	507	658	669	800	871	929	1,055	1,138
75+	31	30	45	54	69	85	128	164	196	216	297	329
Male	1,262	1,363	1,563	1,666	1,728	1,885	2,040	2,141	2,374	2,382	2,544	2,626
Female	618	775	843	932	1,064	1,092	1,193	1,331	1,413	1,453	1,587	1,560
Unknown												
White	1,439	1,662	1,844	1,998	2,158	2,291	2,460	2,649	2,896	2,878	3,135	3,170
Black	388	411	468	498	535	583	663	689	741	795	835	823
Native American	16	20	25	35	28	25	34	45	47	51	53	58
Asian	35	42	56	56	67	70	71	84	94	105	100	123
Other/unknown	*	*	13	11	*	*	*	*	*	*	*	12
†Hispanic				174	190	192	213	273	307	291	309	344
†Non-Hispanic				2,424	2,602	2,785	3,020	3,199	3,480	3,544	3,822	3,842
Diabetes	592	719	794	829	947	1,093	1,126	1,225	1,363	1,377	1,502	1,617
Hypertension	323	391	404	447	496	507	559	588	642	698	691	679
Glomerulonephritis	387	445	520	603	628	616	661	755	804	752	827	781
Cystic kidney	141	133	187	202	193	248	272	294	318	301	328	328
Other urologic	54	54	61	59	78	74	93	93	97	113	119	138
Other cause	183	212	252	272	279	257	328	313	371	381	452	408
Unknown cause	126	108	125	110	115	117	115	123	111	136	136	162
Missing disease	74	76	63	76	56	65	79	81	81	77	76	73
<2 years	132	183	159	172	158	136	152	135	175	182	173	166
2-<5 years	467	495	526	571	576	564	566	580	609	611	593	605
5+ years	1,281	1,460	1,721	1,855	2,058	2,277	2,515	2,757	3,003	3,042	3,365	3,415
All	1,880	2,138	2,406	2,598	2,792	2,977	3,233	3,472	3,787	3,835	4,131	4,186
All with unknowns dropped	1,752	2,027	2,270	2,478	2,674	2,852	3,114	3,345	3,667	3,693	3,987	4,012

Patient age 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 ten or fewer patients are suppressed.

h mortality & causes of death

Table H.28

Annual mortality rates: transplant patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0-4	124	64	41	25	44	48	39	36	28	17	23	25	17
5-9	49	43	37	19	17	13	28	21	3	15	7	8	7
10-14	41	13	17	8	11	26	17	19	11	7	.	6	5
15-19	17	28	12	18	16	9	13	14	15	14	10	8	7
20-29	16	20	15	24	17	16	16	15	16	13	12	11	10
30-39	41	33	39	34	37	27	31	25	25	23	21	19	17
40-49	74	64	62	46	49	40	42	37	37	36	37	34	30
50-59	66	78	74	74	63	71	57	60	55	53	54	49	38
60-64	130	59	93	81	124	91	90	72	67	57	69	69	69
65-69	60	107	102	163	112	98	119	59	92	77	101	72	87
70-79	92	66	196	37	27	60	67	91	75	108	99	71	94
80+	.	.	.	.	.	483	180	157	163	76	148	251	109
Male	49	46	42	41	42	38	39	36	38	35	38	35	32
Female	35	33	38	35	34	31	32	28	27	27	27	26	26
White	39	38	40	38	36	34	34	31	32	30	32	30	29
Black	62	55	42	40	56	43	47	45	43	44	44	42	35
Other race	64	57	50	45	30	27	28	26	25	22	22	19	20
†Hispanic													
†Non-Hispanic													
Diabetes	80	73	83	67	78	63	68	56	58	56	53	55	53
Hypertension	34	35	36	27	38	34	42	34	33	34	39	41	34
Glomerulonephritis	22	23	24	24	20	22	23	22	21	22	24	21	19
Other cause	54	50	45	47	43	38	33	32	33	29	31	25	24
<2 years	60	56	50	44	45	37	34	33	33	28	26	24	23
2-<5 years	45	43	44	38	40	36	40	31	35	31	32	28	25
5+ years	14	21	26	36	34	34	33	34	33	34	37	35	33
All	43	41	41	39	39	35	36	33	33	32	34	31	29
ADJUSTED													
0-19	.	.	.	32	40	31	35	36	33	27	22	19	16
20-44	.	.	.	41	47	35	35	29	30	27	27	24	21
45-64	.	.	.	72	73	67	64	60	57	54	54	51	46
65-74	.	.	.	118	93	87	98	75	80	80	88	76	81
75+	.	.	.	243	143	150	89	62	72	72	70	68	77
Male	.	.	.	112	88	80	77	62	64	63	61	57	53
Female	.	.	.	85	70	65	58	47	48	45	48	44	46
White	.	.	.	115	86	78	74	57	59	54	55	49	50
Black	.	.	.	62	70	72	63	57	57	58	57	55	52
Other race	.	.	.	74	46	42	41	36	40	40	47	45	34
Diabetes	.	.	.	123	100	86	81	67	70	71	68	66	67
Hypertension	.	.	.	67	55	59	66	50	50	45	50	47	44
Glomerulonephritis	.	.	.	87	58	73	45	39	40	41	47	40	41
Other cause	.	.	.	115	100	83	68	58	62	53	53	43	40
<2 years	.	.	.	113	88	77	66	53	55	51	49	44	43
2-<5 years	.	.	.	96	78	72	73	55	57	52	54	48	46
5+ years	.	.	.	78	68	68	66	58	60	62	66	65	65
All	.	.	.	100	80	73	68	55	57	54	55	51	50

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender 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.

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Annual mortality rates: transplant patients, by primary diagnosis, adjusted (H.28.1). Annual deaths per 1,000 patients: transplant patients, by primary diagnosis (H.28.2). transplant patients: counts of total deaths, by primary diagnosis (H.28.3). Annual mortality rates: transplant patients, unadjusted (H.28.4).

Table H.28 (continued)

Annual mortality rates: transplant patients

per 1,000 patient years at risk, period prevalent patients, by age, gender, race, ethnicity, primary diagnosis, & patient vintage

UNADJUSTED	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0-4	10	15	10	5	24	14	28	4	16	23	15	16
5-9	5	3	9	7	7	5	9	7	3	7	7	1
10-14	6	4	6	4	6	3	7	4	3	7	4	3
15-19	9	11	12	9	8	11	6	7	7	7	9	6
20-29	12	9	8	9	9	7	9	7	10	10	6	7
30-39	18	17	17	15	17	15	16	14	16	14	13	13
40-49	27	32	31	30	27	28	25	25	26	25	22	20
50-59	49	47	46	49	47	44	44	43	40	37	38	34
60-64	65	67	71	65	69	59	63	62	63	55	59	56
65-69	84	80	91	85	77	88	74	83	77	74	73	75
70-79	90	112	119	113	101	115	122	115	115	108	114	99
80+	380	201	120	80	191	169	138	193	159	150	144	169
Male	35	35	37	37	35	36	37	36	38	36	36	35
Female	26	29	30	30	32	31	31	33	33	32	33	30
White	30	32	33	33	34	34	34	34	36	33	34	33
Black	40	39	40	38	38	38	40	39	39	39	39	36
Other race	20	22	28	28	24	23	23	25	26	25	24	26
†Hispanic				27	27	24	24	28	29	25	24	24
†Non-Hispanic				35	35	35	35	35	36	35	36	34
Diabetes	51	55	55	52	54	58	55	56	58	55	56	57
Hypertension	38	42	39	40	41	39	40	40	41	42	39	37
Glomerulonephritis	20	22	24	26	26	24	24	26	26	23	24	22
Other cause	28	26	29	28	26	26	28	26	27	26	27	25
<2 years	18	24	21	22	19	17	18	15	19	19	18	17
2-<5 years	27	26	27	27	27	25	25	25	25	24	23	23
5+ years	37	38	40	39	39	40	40	41	41	39	40	38
All	31	33	34	34	34	34	34	35	36	34	35	33
ADJUSTED												
0-19	12	18	16	14	14	14	13	12	10	12	13	10
20-44	20	21	19	18	17	17	16	15	16	15	15	13
45-64	46	47	45	44	42	38	37	35	36	33	33	30
65-74	81	82	89	84	78	78	75	75	74	71	70	65
75+	140	102	127	108	92	92	107	107	112	107	113	109
Male	64	59	65	56	51	49	50	49	50	48	48	45
Female	52	47	47	48	46	44	44	42	43	41	42	39
White	59	55	55	52	49	47	48	46	47	44	45	42
Black	62	53	60	54	49	48	48	48	49	48	47	43
Other race	40	44	46	43	42	38	38	34	33	31	30	30
Diabetes	80	72	76	68	62	63	65	64	66	62	62	60
Hypertension	53	49	49	47	46	42	42	39	41	40	39	36
Glomerulonephritis	36	38	40	44	38	36	32	34	34	31	32	28
Other cause	48	46	47	43	38	35	38	36	36	34	34	32
<2 years	47	46	46	43	38	35	35	32	35	35	35	33
2-<5 years	57	49	51	48	46	44	45	44	43	41	40	38
5+ years	83	74	81	74	71	72	75	75	75	69	70	66
All	59	54	56	52	49	47	47	46	47	45	45	42

Reference cohort is 2001 prevalent ESRD patients.

Overall mortality rates are adjusted for age, gender, race, primary diagnosis, & vintage. Adjusted rates for one of the five variables are adjusted for the remaining four.

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.

U.S. & territories only; patients of unknown age or gender are excluded.

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

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Table H.29

Mortality rates by primary cause of mortality, unadjusted

per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	ESRD						
	Male	Female	White	Black	N. Am.	Asian	All
Acute myocardial infarction	13.5	12.8	14.3	11.4	12.7	10.9	13.2
Hyperkalemia	1.9	2.4	2.7	1.3	2.7	1.6	2.2
Pericarditis	0.2	0.2	0.1	0.3	0.2	0.1	0.2
Atherosclerotic heart disease	4.5	4.7	5.5	3.2	2.5	3.9	4.6
Cardiomyopathy	6.4	5.0	7.1	3.7	4.7	3.6	5.8
Cardiac arrhythmia	6.9	6.7	7.5	5.9	5.7	5.3	6.8
Cardiac arrest	37.2	40.6	39.4	38.8	33.2	31.5	38.7
Valvular heart disease	0.9	1.0	1.0	0.7	0.8	0.5	0.9
Pulmonary edema	1.3	1.5	1.7	1.0	1.6	0.7	1.4
Congestive heart failure	0.4	0.4	0.5	0.2	0.5	0.2	0.4
Aids	0.7	0.4	0.1	1.5	0.1	.	0.6
Cachexia	1.5	2.1	2.1	1.2	1.1	1.2	1.8
Cerebrovascular disease	6.6	9.7	8.0	8.1	8.2	7.9	8.0
GI hemorrhage	1.1	1.2	1.2	1.1	0.6	1.1	1.2
Other hemorrhage	1.4	1.7	1.5	1.8	1.3	1.8	1.6
Septicemia	16.2	21.6	18.0	20.0	19.2	13.2	18.6
Pulmonary infection	4.1	3.4	4.5	2.5	3.9	3.9	3.8
Viral infection	0.3	0.2	0.3	0.2	0.2	0.4	0.3
Other infection	1.1	1.4	1.3	1.1	1.6	0.9	1.2
Malignant disease	7.4	6.0	7.7	5.5	4.2	4.1	6.7
Withdrawal from dialysis/uremia	0.9	1.2	1.4	0.5	0.9	0.6	1.1
Other cause	49.6	55.1	57.3	46.0	46.2	28.7	52.1
Unknown cause	2.6	3.1	2.7	3.1	3.5	1.5	2.8
All	166.8	182.7	185.7	159.3	155.5	123.8	173.9
Years at risk	698,515	564,751	772,385	405,129	17,097	53,542	1,263,266
Patients	830,977	678,698	932,274	476,883	20,008	61,870	1,509,675

	DIALYSIS						
	Male	Female	White	Black	N. Am.	Asian	All
Acute myocardial infarction	18.1	16.5	20.7	12.9	15.1	14.3	17.4
Hyperkalemia	2.7	3.3	4.1	1.5	3.4	2.1	3.0
Pericarditis	0.2	0.3	0.2	0.3	0.3	0.2	0.3
Atherosclerotic heart disease	6.4	6.3	8.4	3.7	3.1	5.5	6.4
Cardiomyopathy	9.1	6.7	10.8	4.3	5.9	5.0	8.0
Cardiac arrhythmia	9.8	8.9	11.3	6.9	7.1	7.4	9.4
Cardiac arrest	52.5	54.0	59.8	45.5	41.9	43.4	53.2
Valvular heart disease	1.2	1.3	1.5	0.9	0.8	0.8	1.2
Pulmonary edema	1.9	2.1	2.6	1.2	1.9	1.0	2.0
Congestive heart failure	0.5	0.5	0.7	0.3	0.6	0.3	0.5
Aids	1.0	0.5	0.1	1.8	0.1	.	0.8
Cachexia	2.1	2.8	3.2	1.4	1.3	1.6	2.4
Cerebrovascular disease	9.1	12.6	11.7	9.4	9.9	10.8	10.7
GI hemorrhage	1.5	1.6	1.7	1.3	0.8	1.5	1.6
Other hemorrhage	1.9	2.3	2.1	2.0	1.5	2.5	2.1
Septicemia	22.2	28.3	26.7	23.2	23.3	17.8	25.0
Pulmonary infection	5.5	4.4	6.5	2.9	4.3	5.2	5.0
Viral infection	0.4	0.3	0.4	0.3	0.1	0.5	0.3
Other infection	1.4	1.8	1.8	1.3	1.9	1.2	1.6
Malignant disease	9.4	7.3	10.4	6.2	4.2	5.2	8.4
Withdrawal from dialysis/uremia	1.3	1.6	2.1	0.6	1.0	0.8	1.5
Other cause	62.4	68.1	77.9	50.7	52.6	35.3	65.0
Unknown cause	3.7	4.1	4.1	3.7	4.3	2.1	3.9
All	224.1	235.5	269.0	182.4	185.4	164.4	229.4
Years at risk	486,252	418,448	499,137	340,536	13,467	38,336	904,700
Patients	612,850	528,634	651,366	410,763	16,281	46,394	1,141,484

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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.

Mortality rates by primary cause of mortality, diabetic patients, unadjusted (H.29.1). Mortality rates by primary cause of mortality, non-diabetic patients, unadjusted (H.29.2). Mortality rates by specific cause of mortality: ESRD patients, unadjusted (H.a.1).

Table H.29 (continued)

Mortality rates by primary cause of mortality, unadjusted

per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	TRANSPLANT						
	Male	Female	White	Black	N. Am.	Asian	All
Acute myocardial infarction	3.1	2.1	2.7	3.1	3.9	2.0	2.7
Hyperkalemia	0.1	0.1	0.1	0.1	.	0.1	0.1
Pericarditis	<0.05	<0.05	<0.05	<0.05	.	0.1	<0.05
Atherosclerotic heart disease	0.2	0.2	0.2	0.1	.	0.1	0.2
Cardiomyopathy	0.4	0.2	0.3	0.4	0.3	0.2	0.3
Cardiac arrhythmia	0.4	0.4	0.4	0.4	0.8	0.2	0.4
Cardiac arrest	2.3	2.1	2.1	3.1	1.1	1.5	2.2
Valvular heart disease	0.1	0.1	0.1	0.1	0.8	.	0.1
Pulmonary edema	0.1	0.1	0.1	0.1	0.3	.	0.1
Congestive heart failure	0.1	0.1	0.1	<0.05	.	0.1	0.1
Aids	<0.05	<0.05	<0.05	<0.05	.	.	<0.05
Cachexia	0.1	0.1	0.1	0.1	.	0.1	0.1
Cerebrovascular disease	1.1	1.3	1.2	1.5	2.2	0.7	1.2
GI hemorrhage	0.1	0.2	0.1	0.2	.	0.3	0.2
Other hemorrhage	0.3	0.3	0.3	0.4	0.6	0.1	0.3
Septicemia	2.3	2.6	2.2	3.2	4.1	1.6	2.4
Pulmonary infection	0.8	0.7	0.8	0.8	2.2	0.7	0.8
Viral infection	0.1	0.1	0.1	0.1	0.8	0.1	0.1
Other infection	0.4	0.3	0.3	0.5	0.3	0.2	0.4
Malignant disease	2.7	2.1	2.6	1.8	4.1	1.6	2.5
Withdrawal from dialysis/uremia	<0.05	<0.05	<0.05	.	0.3	.	<0.05
Other cause	20.5	18.2	19.6	21.6	22.6	11.8	19.6
Unknown cause	0.2	0.2	0.2	0.3	0.3	.	0.2
All	35.6	31.4	33.6	38.0	44.6	21.6	33.9
Years at risk	212,263	146,302	273,247	64,593	3,630	15,206	358,566
Patients	218,127	150,064	280,908	66,120	3,727	15,476	368,191

	HEMODIALYSIS						
	Male	Female	White	Black	N. Am.	Asian	All
Acute myocardial infarction	18.0	16.8	20.9	13.1	14.9	14.4	17.5
Hyperkalemia	2.9	3.4	4.3	1.5	3.4	2.3	3.1
Pericarditis	0.2	0.3	0.2	0.3	0.3	0.1	0.3
Atherosclerotic heart disease	6.4	6.5	8.6	3.8	3.1	5.6	6.5
Cardiomyopathy	8.8	6.7	10.8	4.3	5.7	5.1	7.9
Cardiac arrhythmia	9.8	9.1	11.6	7.0	6.8	7.7	9.5
Cardiac arrest	53.5	56.0	61.9	46.5	43.7	45.9	54.6
Valvular heart disease	1.2	1.3	1.5	0.9	0.8	0.8	1.2
Pulmonary edema	1.9	2.1	2.7	1.2	2.1	1.1	2.0
Congestive heart failure	0.5	0.5	0.7	0.3	0.6	0.3	0.5
Aids	1.0	0.6	0.1	1.9	0.2	.	0.8
Cachexia	2.1	2.8	3.2	1.4	1.1	1.5	2.4
Cerebrovascular disease	9.2	12.9	11.9	9.5	10.3	11.3	10.9
GI hemorrhage	1.5	1.7	1.8	1.4	0.9	1.6	1.6
Other hemorrhage	2.0	2.4	2.2	2.1	1.5	2.6	2.2
Septicemia	22.0	28.0	26.4	23.1	22.8	18.2	24.8
Pulmonary infection	5.7	4.5	6.7	2.9	4.4	5.5	5.1
Viral infection	0.4	0.3	0.4	0.3	0.1	0.6	0.3
Other infection	1.3	1.7	1.7	1.2	1.6	1.1	1.5
Malignant disease	9.7	7.6	10.8	6.5	4.1	5.4	8.7
Withdrawal from dialysis/uremia	1.3	1.7	2.2	0.7	1.1	0.9	1.5
Other cause	63.6	70.1	80.6	51.6	53.4	36.6	66.6
Unknown cause	3.8	4.2	4.3	3.7	4.4	2.3	4.0
All	226.9	241.3	275.5	185.1	187.5	170.9	233.5
Years at risk	445,635	380,018	447,387	319,771	12,396	34,062	825,654
Patients	561,995	481,455	585,717	386,188	14,994	41,367	1,043,450

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.

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 Mortality rates by specific cause of mortality: dialysis patients, unadjusted (H.a.2).
 Mortality rates by specific cause of mortality: hemodialysis patients, unadjusted
 (H.a.3). Mortality rates by specific cause of mortality: CAPD/CCPD patients,
 unadjusted (H.a.4). Bayesian standardized mortality ratios: by state & territory
 (H.b).

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Table H.29 (continued)

Mortality rates by primary cause of mortality, unadjusted

per 1,000 patient years at risk, period prevalent patients, 2002-2004 combined

	CAPD/CCPD		White	Black	N. Am.	Asian	All
	Male	Female					
Acute myocardial infarction	19.2	14.1	19.4	11.0	17.3	14.0	16.7
Hyperkalemia	1.5	2.3	2.3	0.9	3.8	0.7	1.8
Pericarditis	0.3	0.1	0.2	0.3	.	0.2	0.2
Atherosclerotic heart disease	5.8	4.4	6.6	2.1	2.9	4.6	5.1
Cardiomyopathy	11.8	6.3	11.5	4.5	7.7	3.6	9.1
Cardiac arrhythmia	9.9	6.3	9.5	5.5	10.5	4.8	8.1
Cardiac arrest	42.0	35.1	43.1	31.7	20.1	24.2	38.6
Valvular heart disease	1.5	1.0	1.5	0.8	1.0	0.2	1.2
Pulmonary edema	1.3	1.4	1.6	0.8	.	0.5	1.3
Congestive heart failure	0.3	0.3	0.4	0.1	.	0.2	0.3
Aids	0.6	0.2	0.2	1.0	.	.	0.4
Cachexia	2.7	3.0	3.7	1.1	3.8	2.4	2.9
Cerebrovascular disease	7.9	10.1	10.0	7.5	3.8	6.8	8.9
GI hemorrhage	1.4	0.8	1.3	0.9	.	0.5	1.1
Other hemorrhage	1.1	1.0	1.1	1.1	1.9	1.2	1.1
Septicemia	25.1	30.8	29.8	25.2	27.8	15.0	27.9
Pulmonary infection	4.1	3.3	4.5	2.0	2.9	2.7	3.7
Viral infection	0.2	0.2	0.2	0.2	.	0.5	0.2
Other infection	2.5	2.8	2.8	2.2	5.8	1.9	2.6
Malignant disease	6.0	4.6	6.6	2.8	4.8	3.4	5.3
Withdrawal from dialysis/uremia	1.0	1.2	1.6	0.2	.	.	1.1
Other cause	48.2	47.2	54.4	37.1	43.1	24.7	47.7
Unknown cause	2.4	2.8	2.6	2.7	2.9	1.2	2.6
All	196.7	179.4	214.9	141.3	160.1	113.4	188.2
Years at risk	38,553	36,761	49,214	19,831	1,043	4,137	75,314
Patients	48,143	44,982	62,224	23,432	1,246	4,857	93,125

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.30

Mortality rates by cause of withdrawal, unadjusted*per 1,000 patient years at risk, period prevalent dialysis patients, by demographic characteristics & primary diagnosis, 2002-2004 combined*

	0-4	5-9	10-14	15-19	20-29	30-39	40-49	50-59
Withdraw, access failure	2.7	2.7	1.1	.	0.3	0.3	0.4	0.5
Withdraw, transplant failure	.	.	0.6	.	0.2	0.1	0.1	0.1
Withdraw, failure to thrive	5.4	1.3	1.1	0.5	1.3	2.4	4.9	8.5
Withdraw, med. complication	5.4	1.3	1.7	1.8	2.4	4.0	5.9	9.6
Withdraw, other	.	2.7	3.4	0.5	1.2	2.3	3.2	5.4
Did not withdraw	67.3	29.5	25.2	30.3	46.7	66.9	96.5	129.4
Missing data	10.8	1.3	3.4	2.3	4.2	6.4	8.8	11.4
Other cause	.	.	.	.	.	.	.	.
All	91.5	38.8	36.4	35.3	56.3	82.4	119.8	164.9
Years at risk	743	747	1,785	3,999	27,961	68,644	128,612	188,492
Patients	931	928	2,204	4,790	32,138	79,175	151,881	229,463

	60-64	65-69	70-79	80+	Male	Female	White	Black
Withdraw, access failure	0.6	0.9	1.2	2.4	0.6	1.1	1.0	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	13.9	21.0	37.1	69.5	19.0	23.5	30.9	8.8
Withdraw, med. complication	15.0	19.4	28.4	43.6	15.5	19.4	23.9	8.7
Withdraw, other	7.6	11.0	18.1	32.1	10.0	11.7	15.1	5.4
Did not withdraw	161.5	185.2	225.3	289.1	161.6	162.6	176.6	145.9
Missing data	14.4	18.0	25.1	42.3	17.4	17.1	21.4	12.9
Other cause	.	.	.	.	.	.	.	.
All	213.0	255.5	335.5	479.1	224.1	235.5	269.0	182.4
Years at risk	101,774	105,489	191,788	84,666	486,252	418,448	499,137	340,536
Patients	127,446	135,247	256,183	121,098	612,850	528,634	651,366	410,763

	Other race	†Hispanic	†Non-Hispanic	Diabetes	Hyper-tension	Glomerulo-nephritis	Other cause	All
Withdraw, access failure	0.6	0.6	0.9	1.0	0.8	0.5	0.8	0.9
Withdraw, transplant failure	<0.05	<0.05	0.1	0.1	0.1	0.1	0.1	0.1
Withdraw, failure to thrive	10.3	11.2	22.7	22.7	21.9	12.3	22.4	21.1
Withdraw, med. complication	11.2	11.1	18.3	19.9	16.7	10.1	17.2	17.3
Withdraw, other	5.9	7.9	11.3	11.6	11.2	6.2	11.7	10.8
Did not withdraw	134.8	140.3	165.6	189.7	164.4	99.0	139.4	162.0
Missing data	8.9	9.3	18.6	15.5	18.1	10.0	25.2	17.3
Other cause	.	.	.	.	.	.	.	.
All	171.8	180.6	237.3	260.4	233.1	138.2	216.9	229.4
Years at risk	65,027	126,231	778,469	373,646	253,598	114,890	162,567	904,700
Patients	79,355	155,079	986,405	483,020	319,727	134,052	204,685	1,141,484

† "All" category includes patients of other & unknown races.

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

U.S. only; patients of unknown age or gender are excluded.

“.” Zero values in this cell.

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Table H.31

Expected remaining lifetimes* of the general U.S. population, & of prevalent dialysis & transplant patients

general U.S. population, 2002; ESRD patients, 2004

	All races			White			Black		
	All	M	F	All	M	F	All	M	F
0-14	70.9	68.2	73.4	71.3	68.7	73.7	66.4	62.9	69.7
15-19	61.1	58.4	63.6	61.4	58.9	63.9	56.7	53.3	59.9
20-24	56.3	53.8	58.7	56.7	54.2	59.0	52.0	48.7	55.0
25-29	51.6	49.1	53.9	51.9	49.5	54.2	47.4	44.3	50.2
30-34	46.8	44.4	49.0	47.1	44.8	49.3	42.8	39.8	45.5
35-39	42.1	39.8	44.2	42.4	40.1	44.5	38.3	35.4	40.8
40-44	37.5	35.2	39.5	37.7	35.6	39.7	33.9	31.1	36.3
45-49	33.0	30.8	34.9	33.2	31.1	35.1	29.7	26.9	32.0
50-54	28.6	26.6	30.4	28.8	26.8	30.5	25.7	23.1	27.8
55-59	24.4	22.5	26.0	24.5	22.7	26.1	22.0	19.6	23.9
60-64	20.4	18.7	21.9	20.5	18.8	21.9	18.5	16.4	20.1
65-69	16.8	15.2	18.0	16.8	15.2	18.0	15.3	13.5	16.7
70-74	13.4	12.0	14.4	13.4	12.0	14.4	12.4	10.8	13.5
75-79	10.4	9.3	11.1	10.3	9.2	11.1	9.9	8.6	10.7
80-84	7.8	6.9	8.3	7.7	6.9	8.2	7.8	6.8	8.3
85+	4.3	3.8	4.5	4.2	3.7	4.3	4.6	4.2	4.8
Overall	25.0	23.2	26.4	25.1	23.4	26.5	22.8	20.6	24.5

Dialysis 2004	All races			White			Black			N Am			Asian		
	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female
0-14	18.7	19.6	17.6	19.4	20.3	18.5	16.2	17.3	14.9	20.5	20.7	20.2	32.6	33.7	31.2
15-19	16.3	17.2	15.3	16.6	17.2	15.8	15.3	16.5	14.0	16.9	17.7	16.2	26.0	26.7	25.3
20-24	14.0	14.9	13.0	14.1	14.7	13.3	13.3	14.4	12.1	14.5	15.3	13.7	22.7	23.3	22.1
25-29	12.3	13.0	11.5	12.1	12.6	11.4	12.1	12.9	11.1	12.8	13.2	12.4	19.8	20.3	19.3
30-34	10.7	11.0	10.3	10.2	10.4	9.9	10.8	11.3	10.2	11.0	11.2	10.7	17.2	17.5	16.9
35-39	9.1	9.3	8.9	8.5	8.6	8.5	9.4	9.8	9.0	9.2	9.3	9.1	14.4	14.6	14.3
40-44	7.9	8.0	7.7	7.3	7.4	7.2	8.3	8.6	7.9	8.0	8.0	7.9	12.2	12.3	12.1
45-49	6.9	7.0	6.8	6.4	6.5	6.3	7.3	7.5	7.1	7.1	7.2	6.9	10.2	10.2	10.1
50-54	6.0	6.1	5.9	5.5	5.5	5.5	6.5	6.6	6.3	6.4	6.5	6.2	8.6	8.5	8.6
55-59	5.1	5.2	5.1	4.7	4.7	4.7	5.6	5.7	5.5	5.5	5.5	5.4	7.0	7.0	7.0
60-64	4.4	4.4	4.4	4.0	4.0	4.0	4.9	5.0	4.9	4.8	4.6	4.9	6.0	6.0	5.9
65-69	3.7	3.7	3.8	3.4	3.4	3.5	4.2	4.1	4.3	4.3	4.2	4.3	5.0	5.0	5.0
70-74	3.2	3.1	3.2	2.9	2.9	3.0	3.5	3.5	3.6	3.6	3.5	3.6	4.2	4.2	4.1
75-79	2.7	2.6	2.7	2.5	2.5	2.6	3.0	2.9	3.0	3.0	2.9	3.1	3.4	3.5	3.4
80-84	2.3	2.2	2.3	2.2	2.2	2.2	2.5	2.4	2.6	2.5	2.4	2.6	2.9	2.9	2.8
85+	1.8	1.7	1.9	1.8	1.7	1.8	2.0	1.8	2.1	2.0	1.9	2.1	2.3	2.2	2.4
Overall	5.6	5.6	5.5	5.2	5.3	5.2	5.9	6.0	5.8	5.9	5.9	5.9	8.2	8.2	8.1

Transplant 2004	All races			White			Black			N Am			Asian		
	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female
0-14	52.6	52.6	52.5	53.3	53.3	53.3	49.2	49.4	48.8	39.6	42.1	36.3	59.6	57.8	62.6
15-19	41.1	40.9	41.5	41.6	41.4	41.9	38.6	38.5	38.7	32.3	34.4	30.5	47.9	46.0	51.0
20-24	37.4	37.2	37.9	37.8	37.6	38.2	35.2	35.1	35.3	30.3	32.1	28.8	44.1	42.3	47.2
25-29	33.7	33.4	34.2	34.0	33.7	34.5	31.7	31.5	32.0	27.8	29.3	26.4	40.2	38.4	43.3
30-34	29.8	29.4	30.4	30.0	29.7	30.6	28.0	27.8	28.4	24.9	26.3	23.6	36.1	34.3	39.2
35-39	26.3	25.9	27.1	26.5	26.0	27.3	24.8	24.4	25.4	22.7	23.5	21.9	32.3	30.4	35.5
40-44	23.0	22.5	24.0	23.2	22.7	24.1	21.6	21.2	22.2	20.2	20.8	19.6	28.5	26.6	31.7
45-49	20.0	19.4	20.9	20.1	19.5	21.1	18.6	18.1	19.4	18.0	18.5	17.4	24.8	23.0	28.0
50-54	17.1	16.6	18.1	17.3	16.7	18.3	15.8	15.3	16.5	15.8	16.2	15.3	21.3	19.6	24.4
55-59	14.5	13.9	15.4	14.6	14.0	15.6	13.3	12.8	14.0	13.8	14.3	13.3	18.1	16.5	21.2
60-64	12.1	11.6	12.9	12.2	11.7	13.1	11.0	10.5	11.7	12.3	12.6	12.1	15.3	13.8	18.2
65-69	10.1	9.7	10.9	10.2	9.7	11.0	9.3	8.8	10.0	11.1	11.2	11.1	13.0	11.6	15.7
70-74	8.5	8.1	9.3	8.5	8.1	9.3	7.8	7.3	8.5	9.8	9.8	10.0	10.9	9.7	13.5
75-79	7.1	6.7	7.7	7.1	6.8	7.6	6.5	5.9	7.3	8.5	8.2	9.3	9.1	8.1	11.6
Overall	15.7	15.2	16.5	15.8	15.4	16.6	14.6	14.1	15.2	14.8	15.2	14.6	19.5	18.0	22.4

*In years.

Table H.32

First-year mortality rates, ESRD patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	164	200	108	134	115	113	82	107	122	134	171	119	103	94
5-9	30	17	24	47	.	28	45	40	.	34	40	21	53	29
10-14	33	21	55	43	8	26	30	22	23	21	23	20	33	19
15-19	25	41	35	31	40	25	34	17	36	21	21	21	23	18
20-29	76	72	64	70	75	76	59	47	50	46	63	51	61	62
30-39	101	109	106	113	106	120	101	93	92	94	93	89	88	86
40-49	116	127	125	118	122	115	110	104	115	109	109	115	118	116
50-59	170	171	159	161	152	153	157	152	156	150	156	151	153	156
60-64	243	232	231	211	214	221	202	200	221	208	213	202	211	198
65-69	280	285	280	259	269	260	249	262	268	266	259	263	264	254
70-79	379	382	379	357	356	353	344	359	357	362	363	360	362	358
80+	519	524	538	495	494	505	508	519	553	537	547	546	529	525
Male	229	236	237	222	226	228	222	227	233	231	236	232	239	235
Female	229	236	232	228	228	228	229	237	247	248	251	251	256	251
White	260	269	270	255	257	256	254	265	270	267	271	273	276	270
Black	176	181	175	176	180	185	175	175	189	191	199	192	200	203
Other race	140	132	147	135	149	170	183	169	186	183	175	161	173	159
†Hispanic							177	184	182	188	178	175	186	179
†Non-Hispanic							232	237	247	246	253	251	256	252
Diabetes	259	253	252	232	235	238	235	243	252	245	246	244	248	241
Hypertension	247	259	256	253	249	240	241	254	261	264	265	266	267	268
Glomerulonephritis	133	150	134	120	138	132	124	122	122	132	127	125	127	123
Other cause	220	230	235	236	234	252	246	240	250	250	266	260	276	268
All	229	236	234	224	227	228	225	231	239	239	243	241	247	242
ADJUSTED														
0-19	91	122	99	105	74	79	85	69	83	75	95	74	83	61
20-44	107	113	111	115	110	115	98	91	96	94	96	93	96	92
45-64	185	181	173	164	162	162	157	151	161	154	157	154	158	157
65-74	309	314	306	281	293	282	271	283	285	283	281	282	287	277
75+	456	457	464	444	432	438	433	448	459	458	461	457	450	448
Male	275	276	272	252	253	253	238	238	243	236	240	236	238	234
Female	252	253	245	239	235	232	228	232	241	240	240	238	240	235
White	292	294	287	267	263	258	249	255	258	251	252	252	251	245
Black	218	219	213	213	216	219	205	201	216	218	223	215	223	226
Other race	170	158	170	155	167	181	189	174	194	185	179	166	175	160
Diabetes	297	285	280	255	255	255	247	251	260	249	248	244	246	239
Hypertension	232	239	236	229	225	215	211	219	224	224	224	226	221	225
Glomerulonephritis	193	209	188	169	186	180	163	163	163	170	166	169	166	163
Other cause	274	285	287	293	287	300	289	276	290	288	305	297	312	303
All	263	264	259	245	244	243	233	235	242	238	239	237	239	234

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.

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Table H.33

First-year mortality rates, dialysis patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	232	252	148	189	154	164	134	151	158	200	227	161	124	114
5-9	66	44	61	81	.	22	85	27	.	32	55	32	92	35
10-14	46	29	83	59	13	26	42	37	28	34	37	24	53	14
15-19	30	45	35	38	48	29	38	22	46	27	27	31	32	24
20-29	93	83	76	86	87	89	69	53	60	55	73	60	70	72
30-39	119	128	121	129	120	137	115	104	104	105	104	101	99	95
40-49	124	141	137	128	131	122	118	112	125	118	119	125	128	125
50-59	176	178	165	166	156	158	162	159	163	157	163	159	161	164
60-64	247	236	235	213	216	226	205	204	225	212	217	207	217	204
65-69	281	286	281	260	271	262	251	265	271	269	262	267	268	259
70-79	379	383	379	358	357	353	344	360	357	363	364	362	363	360
80+	519	524	538	495	495	505	508	519	553	537	547	546	530	525
Male	245	252	251	235	237	241	233	238	245	242	247	244	251	246
Female	242	249	243	238	238	238	237	246	257	258	262	261	266	260
White	282	292	290	274	273	273	269	282	288	284	287	290	294	286
Black	181	185	179	179	184	189	179	178	192	194	202	194	203	206
Other race	151	141	153	142	155	176	188	174	192	188	181	166	178	164
†Hispanic							181	190	187	193	184	180	191	184
†Non-Hispanic							243	249	259	257	266	263	268	264
Diabetes	270	264	262	240	243	245	242	249	259	251	252	249	254	245
Hypertension	253	264	261	257	253	244	245	258	265	267	270	270	271	272
Glomerulonephritis	150	167	149	134	152	147	137	136	135	145	140	139	142	137
Other cause	246	259	260	262	257	279	268	264	277	277	296	290	306	296
All	243	250	247	236	237	239	235	242	251	249	254	252	258	253
ADJUSTED														
0-19	123	148	123	135	95	96	110	87	107	98	124	97	109	69
20-44	122	131	127	133	125	131	112	104	109	106	109	107	110	105
45-64	193	191	182	172	169	171	165	160	171	162	166	163	167	166
65-74	310	315	307	282	294	284	273	286	287	285	284	286	291	282
75+	456	456	464	444	432	439	433	448	460	458	461	458	451	448
Male	275	277	273	253	253	255	240	241	247	239	244	240	243	239
Female	256	259	250	244	241	238	234	239	249	247	248	247	248	244
White	295	299	292	272	268	265	256	263	267	260	262	263	262	256
Black	219	220	213	213	216	220	206	201	217	219	224	216	224	228
Other race	172	160	171	156	168	183	191	176	196	188	182	169	177	163
Diabetes	300	290	284	259	259	261	253	258	267	256	255	252	254	246
Hypertension	237	244	241	234	230	220	217	225	230	230	231	232	228	231
Glomerulonephritis	187	204	183	165	181	178	161	161	161	167	165	168	166	163
Other cause	275	288	287	293	286	303	289	280	295	293	311	304	319	310
All	265	268	262	248	247	247	237	240	248	243	245	243	245	241

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.34

First-year mortality rates, hemodialysis patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	395	197	187	334	505	345	.	157	190	306	501	327	253	161
5-9	104	.	.	157	.	31	193	.	.	65	118	51	175	65
10-14	35	20	115	59	28	27	34	70	51	71	30	34	86	29
15-19	34	51	38	37	35	29	48	23	51	28	32	37	38	27
20-29	93	86	83	87	89	94	73	62	63	61	76	61	74	77
30-39	124	138	126	137	124	146	121	109	111	114	115	108	106	101
40-49	130	150	138	130	134	131	124	116	132	124	125	133	133	132
50-59	179	180	166	163	156	161	165	163	165	161	167	165	166	168
60-64	251	241	235	205	211	225	204	205	225	209	220	208	222	209
65-69	281	285	283	260	266	260	251	265	275	271	266	268	272	264
70-79	375	381	374	349	350	354	347	359	358	367	368	366	367	362
80+	511	521	524	473	483	505	512	512	551	538	553	544	529	526
Male	252	260	255	237	239	247	239	244	249	248	254	251	257	253
Female	248	256	249	238	239	246	245	251	266	265	271	269	275	268
White	296	308	302	279	279	284	281	291	297	294	298	301	303	296
Black	183	188	180	178	183	192	182	182	197	199	206	199	209	211
Other race	145	147	160	151	159	190	197	179	200	191	188	173	187	170
†Hispanic							185	194	192	201	189	184	195	188
†Non-Hispanic							250	254	266	264	274	271	276	272
Diabetes	272	267	261	235	237	247	243	248	262	254	255	253	256	250
Hypertension	257	269	262	256	251	246	249	262	267	271	277	274	278	276
Glomerulonephritis	162	182	159	143	164	159	147	146	147	157	152	149	153	149
Other cause	258	273	276	271	271	300	287	283	291	290	311	308	322	312
All	250	258	252	237	239	246	242	247	257	256	262	259	265	260
ADJUSTED														
0-19	119	109	119	134	102	106	113	85	116	105	133	119	144	75
20-44	126	141	133	139	131	140	120	111	117	114	117	114	116	110
45-64	199	198	185	170	169	176	169	164	175	167	171	169	174	172
65-74	310	314	308	281	292	284	277	288	291	289	290	291	295	287
75+	450	457	457	429	422	441	437	444	460	461	466	458	454	450
Male	277	281	275	251	252	259	245	245	249	244	249	246	247	244
Female	257	261	251	239	238	241	238	240	254	252	254	251	254	248
White	299	305	295	270	267	269	261	266	270	265	268	268	267	261
Black	216	219	210	207	211	220	207	203	220	222	228	219	229	231
Other race	161	163	174	161	167	194	196	179	200	189	186	174	184	167
Diabetes	301	292	282	253	253	262	254	255	270	259	258	255	256	249
Hypertension	240	248	243	232	229	222	221	229	232	234	238	236	234	235
Glomerulonephritis	193	214	188	170	188	186	168	168	170	177	175	176	176	172
Other cause	277	292	294	292	291	316	300	292	302	301	321	315	328	320
All	267	271	262	245	245	250	241	242	251	248	251	248	250	246

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.

h mortality & causes of death

Table H.35

First-year mortality rates, CAPD/CCPD patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	215	274	140	131	108	104	153	163	156	184	171	121	102	80
5-9	33	.	98	75	.	19	52	41	.	17	20	19	24	25
10-14	35	37	45	34	.	36	60	14	12	.	39	13	13	.
15-19	.	50	35	32	68	27	19	10	25	11	15	13	14	.
20-29	105	72	62	66	59	63	63	11	38	18	46	44	47	41
30-39	102	79	98	91	84	101	76	67	63	45	42	35	53	54
40-49	110	108	109	98	99	84	79	81	72	73	68	48	83	59
50-59	156	164	140	142	121	133	135	111	134	103	114	94	92	95
60-64	240	193	211	187	199	208	197	187	175	208	170	174	127	132
65-69	278	258	209	223	245	220	216	248	213	219	228	230	210	188
70-79	437	368	375	357	354	292	307	314	295	315	326	248	274	247
80+	514	489	504	550	530	422	500	562	511	508	481	459	537	425
Male	195	177	174	172	168	159	161	148	153	146	150	128	148	124
Female	196	173	168	163	164	154	153	159	148	150	151	140	130	130
White	210	191	180	180	178	168	175	172	172	165	171	153	162	142
Black	163	144	154	147	149	145	117	110	104	100	100	95	90	98
Other race	126	82	121	92	100	86	112	95	94	126	106	75	94	88
†Hispanic							110	121	96	92	101	82	121	102
†Non-Hispanic							163	157	157	155	158	141	142	130
Diabetes	243	218	212	197	205	196	197	204	191	184	189	162	182	154
Hypertension	209	181	179	191	194	152	154	159	171	169	165	152	142	148
Glomerulonephritis	84	105	86	72	69	72	75	66	53	47	48	65	40	44
Other cause	191	146	154	163	143	150	144	114	125	127	139	113	119	108
All	196	175	171	167	166	157	157	153	150	148	150	134	140	127
ADJUSTED														
0-19	118	208	130	131	93	92	126	103	108	105	131	85	76	55
20-44	111	92	102	97	89	93	75	61	59	51	52	40	57	57
45-64	168	154	146	139	131	134	131	117	126	114	113	100	96	93
65-74	310	284	257	237	268	242	228	241	210	235	238	201	228	189
75+	542	442	476	515	469	343	422	441	435	402	413	384	370	346
Male	265	237	230	224	216	203	200	178	186	174	177	149	174	145
Female	261	236	229	217	219	201	200	209	191	191	195	178	161	163
White	280	256	238	231	225	212	218	210	209	199	204	181	188	164
Black	265	226	244	234	233	215	179	166	153	147	149	138	127	142
Other race	184	126	181	129	154	116	145	129	136	166	153	95	119	113
Diabetes	306	278	272	245	254	243	241	240	227	218	221	188	211	178
Hypertension	225	203	191	208	207	164	160	164	175	171	169	150	140	148
Glomerulonephritis	144	170	147	117	112	114	120	109	89	79	76	104	62	75
Other cause	288	224	237	253	217	227	223	177	197	192	213	168	182	163
All	263	237	229	221	217	202	200	191	188	181	184	162	168	153

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.36

First-year mortality rates, transplant patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
0-4	166	74	55	43	85	45	38	33	.	43	31	31	43	28
5-9	90	18	10	36	22	43	16	9	26	18	11	8	7	16
10-14	80	19	24	12	11	21	21	6	10	9	.	14	5	13
15-19	60	25	27	19	31	11	3	13	4	8	3	6	3	11
20-29	27	21	29	26	16	20	12	15	11	16	13	14	17	13
30-39	47	32	37	33	38	28	33	27	27	23	24	20	24	22
40-49	71	51	52	47	49	47	42	43	34	35	36	33	32	29
50-59	95	72	84	84	76	73	68	78	58	63	70	53	55	49
60-64	134	107	111	98	85	102	89	79	96	92	90	88	71	73
65-69	150	148	141	147	101	153	129	123	96	104	107	97	78	80
70-79	171	188	131	219	163	114	98	159	175	129	119	128	118	110
80+	.	288	693	406	693	.	.	.	134	134	201	.	105	61
Male	73	54	58	56	57	55	49	49	46	48	53	46	47	46
Female	63	46	55	52	44	45	46	54	43	45	45	42	40	37
White	73	51	58	55	54	57	48	50	44	45	46	42	42	41
Black	57	52	58	55	49	40	50	58	50	51	62	54	50	49
Other race	65	39	34	37	39	31	39	31	35	47	40	43	40	31
†Hispanic							33	35	31	40	43	37	30	34
†Non-Hispanic							50	53	47	48	51	46	46	43
Diabetes	89	81	83	79	73	73	67	73	66	66	72	64	66	64
Hypertension	75	44	65	58	51	55	46	62	46	58	71	58	47	48
Glomerulonephritis	47	35	36	30	32	34	32	31	27	30	29	22	28	26
Other cause	72	44	51	52	50	45	45	43	39	37	35	37	34	31
All	69	51	57	54	52	51	48	51	45	47	50	45	44	42
ADJUSTED														
0-19	91	33	30	26	33	24	17	16	10	16	8	14	11	15
20-44	57	42	49	40	40	35	33	33	29	30	31	28	27	24
45-64	111	81	89	87	79	79	72	77	65	68	71	60	59	55
65-74	177	178	147	172	124	149	131	141	118	112	115	105	91	93
75+	177	178	147	172	124	149	131	141	118	112	115	105	91	93
Male	196	142	149	139	137	128	111	109	99	102	108	93	90	86
Female	187	130	151	140	114	118	114	132	102	107	102	94	86	78
White	205	140	153	144	135	138	113	118	99	101	98	87	84	80
Black	136	123	134	120	108	86	105	115	98	100	119	99	92	88
Other race	163	98	85	90	85	76	81	65	72	92	77	80	75	55
Diabetes	183	162	161	151	135	133	117	124	111	107	112	100	99	95
Hypertension	136	81	116	102	90	94	76	100	73	91	110	87	69	70
Glomerulonephritis	137	101	99	85	88	88	83	79	69	75	70	51	64	58
Other cause	185	114	126	129	122	109	106	98	88	85	75	80	72	63
All	191	136	148	138	127	123	111	116	99	102	104	92	87	82

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.

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Table H.37

Second-year mortality rates, ESRD patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	51	58	29	31	60	67	51	44	41	42	28	64	41	74
5-9	9	31	9	.	41	26	14	8	8	15	21	7	14	19
10-14	27	24	13	22	18	8	15	12	19	15	7	10	20	19
15-19	18	21	29	14	26	14	20	37	31	20	26	33	22	19
20-29	48	56	58	55	46	46	50	45	48	40	43	48	48	51
30-39	86	91	97	91	83	94	77	83	76	79	71	70	70	66
40-49	123	107	125	109	118	109	105	109	101	99	104	103	98	98
50-59	166	175	169	164	158	151	158	149	149	156	147	144	143	136
60-64	231	231	230	226	213	206	210	200	201	202	190	185	184	181
65-69	276	287	280	261	250	259	253	245	257	250	245	230	207	223
70-79	344	356	345	333	335	330	324	315	335	314	309	314	295	297
80+	431	476	497	459	484	458	452	451	472	439	448	440	434	425
Male	197	205	208	200	196	196	190	195	199	193	192	187	185	187
Female	196	205	210	201	205	204	207	201	211	206	203	207	192	197
White	220	231	235	227	229	229	227	227	234	225	222	221	214	216
Black	159	163	172	161	157	154	153	149	157	160	161	157	152	155
Other race	139	139	127	138	133	151	159	161	159	156	144	151	131	144
†Hispanic								171	172	166	156	148	149	145
†Non-Hispanic								201	209	204	203	204	194	199
Diabetes	251	264	259	249	244	244	241	237	243	238	230	226	217	220
Hypertension	208	224	223	211	217	208	204	204	217	211	212	211	204	207
Glomerulonephritis	121	114	129	118	114	114	113	112	111	103	107	103	94	100
Other cause	156	153	161	156	154	157	160	161	163	159	157	161	152	157
All	196	205	209	201	200	200	198	197	204	199	197	196	188	192
ADJUSTED														
0-19	46	57	47	33	63	43	46	58	53	43	42	58	48	53
20-44	91	93	102	95	92	92	85	87	77	81	79	78	79	76
45-64	184	184	182	173	166	158	160	154	153	154	147	144	141	137
65-74	297	309	297	280	282	280	267	264	276	263	257	252	228	238
75+	399	423	423	404	401	398	402	381	406	379	378	376	367	367
Male	261	267	265	250	240	236	228	225	226	218	212	205	202	201
Female	235	242	241	227	230	224	224	213	221	215	211	210	194	197
White	274	283	279	262	260	252	247	240	244	232	224	221	213	211
Black	209	211	218	203	197	192	189	182	189	190	192	185	178	181
Other race	186	180	161	169	160	178	180	177	172	173	154	163	142	154
Diabetes	308	316	305	288	278	276	269	259	262	255	244	238	227	228
Hypertension	215	228	223	211	213	202	198	193	203	195	195	193	188	185
Glomerulonephritis	193	181	198	181	175	168	168	160	163	150	151	148	140	141
Other cause	206	206	216	207	205	207	205	204	205	202	198	200	190	193
All	248	254	253	238	235	230	226	219	223	216	211	207	198	199

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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 patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	82	109	35	38	78	100	67	59	68	62	15	131	95	112
5-9	32	81	.	.	73	41	26	22	0	63	43	.	36	61
10-14	13	50	12	48	41	22	32	30	44	41	.	18	47	30
15-19	26	31	43	20	49	25	34	64	53	35	49	62	37	22
20-29	76	85	88	77	66	64	70	65	67	52	58	64	63	65
30-39	120	123	132	120	110	122	101	107	95	103	91	90	87	83
40-49	149	124	154	131	143	129	123	127	119	117	120	119	115	113
50-59	183	191	187	181	174	166	173	162	164	173	161	157	157	150
60-64	243	242	239	235	220	214	220	209	211	214	200	196	194	195
65-69	280	291	284	264	253	262	259	250	264	256	252	238	216	232
70-79	346	358	345	334	336	331	326	316	336	316	311	317	298	300
80+	431	476	497	459	484	458	452	451	472	439	448	440	434	425
Male	235	242	243	231	226	223	217	220	224	217	213	208	207	208
Female	224	230	237	223	228	224	227	219	230	226	222	226	209	214
White	271	281	283	269	271	266	265	262	272	261	253	252	245	245
Black	170	172	182	169	166	163	162	156	164	167	167	164	158	162
Other race	168	159	148	153	147	164	172	174	171	168	154	162	140	154
†Hispanic								186	186	181	167	160	161	157
†Non-Hispanic								224	233	227	225	227	215	220
Diabetes	285	293	286	272	265	265	260	254	259	254	244	239	230	233
Hypertension	223	240	238	224	230	219	216	214	228	220	221	221	214	216
Glomerulonephritis	162	147	167	150	147	142	139	139	139	129	133	130	118	124
Other cause	196	191	203	193	192	193	196	194	198	195	192	198	187	189
All	230	236	240	227	227	224	222	219	227	221	217	217	208	211
ADJUSTED														
0-19	57	94	62	49	103	70	74	101	94	81	63	104	89	72
20-44	127	124	141	125	124	121	112	113	100	105	99	98	100	96
45-64	204	201	202	192	183	175	178	170	170	172	164	159	157	153
65-74	300	312	300	282	285	283	272	268	281	267	263	259	235	245
75+	399	423	423	403	402	398	402	381	406	380	378	377	367	368
Male	272	278	275	260	249	245	238	234	236	228	220	214	212	211
Female	246	251	253	236	241	234	234	223	232	226	221	222	205	207
White	289	298	294	276	274	266	262	254	260	247	238	235	227	225
Black	212	212	221	206	200	196	192	184	191	194	195	188	181	184
Other race	198	184	168	171	164	182	185	183	177	177	158	168	147	158
Diabetes	326	332	321	303	292	290	284	273	276	270	256	249	239	241
Hypertension	223	236	231	218	221	209	206	200	211	203	203	201	195	193
Glomerulonephritis	201	184	204	185	181	171	171	166	168	156	157	156	146	148
Other cause	216	215	228	216	216	217	217	214	216	213	209	213	203	203
All	259	265	264	248	245	239	236	228	234	227	220	217	208	209

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.

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Table H.39

Second-year mortality rates, hemodialysis patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	288	182	118	288	268	.	.	223	.	182	.	149	236	74
5-9	118	80	.	.	223	.	.	69	.	.	80	.	.	.
10-14	.	.	.	25	69	21	23	20	19	72	.	15	44	26
15-19	31	33	42	18	44	23	37	67	57	26	56	62	39	28
20-29	75	84	86	76	67	66	72	66	63	51	59	68	61	66
30-39	117	121	132	120	111	119	103	109	96	103	90	92	86	87
40-49	145	128	150	127	136	122	121	128	117	115	120	121	116	114
50-59	181	189	178	172	166	155	166	156	159	169	161	155	155	151
60-64	234	236	227	220	215	204	209	201	204	208	197	196	192	196
65-69	272	293	274	250	242	263	251	243	254	249	246	233	215	230
70-79	333	351	335	325	329	319	313	310	334	311	304	312	296	295
80+	421	483	485	436	470	446	438	449	469	440	444	435	434	420
Male	233	244	238	225	224	218	212	217	222	215	211	207	206	210
Female	223	235	234	220	225	220	225	218	231	226	223	227	212	214
White	274	288	282	267	271	265	261	264	273	260	253	252	247	247
Black	167	176	181	167	165	158	162	156	165	168	169	165	159	164
Other race	158	169	144	152	152	172	170	173	171	170	155	168	142	157
†Hispanic								183	184	183	165	162	161	158
†Non-Hispanic								223	232	226	225	226	217	221
Diabetes	274	287	273	257	254	252	247	246	252	247	239	237	228	232
Hypertension	221	242	235	218	226	215	215	213	227	220	221	218	215	217
Glomerulonephritis	165	160	168	152	153	143	140	148	143	130	139	136	120	127
Other cause	204	201	210	203	200	200	203	200	205	203	196	202	193	192
All	228	240	236	223	224	219	218	218	226	220	217	216	209	212
ADJUSTED														
0-19	76	72	79	48	137	40	69	136	96	76	96	116	99	58
20-44	125	126	141	126	124	119	113	115	99	104	100	100	100	99
45-64	201	200	194	184	178	166	172	167	167	170	164	160	157	155
65-74	291	310	292	273	276	280	264	261	278	263	258	255	234	242
75+	387	425	411	389	396	385	389	381	402	377	372	372	368	363
Male	265	276	266	251	244	238	230	231	232	225	217	212	211	211
Female	239	250	245	228	233	226	228	219	229	223	220	221	206	206
White	283	295	284	265	266	259	252	251	255	242	234	233	226	224
Black	204	212	215	199	195	186	190	181	190	194	195	188	181	185
Other race	182	189	159	166	164	185	179	179	175	176	157	171	146	158
Diabetes	311	324	305	285	280	275	269	263	268	262	251	247	237	239
Hypertension	219	237	228	213	216	206	204	200	211	202	203	199	196	194
Glomerulonephritis	199	192	200	181	184	167	167	174	170	155	161	160	146	148
Other cause	219	220	228	219	218	218	218	215	218	217	209	215	205	203
All	252	263	256	239	238	232	229	225	231	224	218	216	208	208

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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 patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	.	144	.	30	21	73	122	54	104	52	18	126	62	136
5-9	.	107	.	.	.	93	49	.	.	49	31	.	75	130
10-14	33	102	.	110	41	.	30	49	69	18	.	23	41	17
15-19	20	21	.	18	108	23	42	73	36	86	21	54	38	.
20-29	93	100	98	69	62	68	44	67	75	45	52	29	74	50
30-39	123	128	119	122	106	122	72	93	99	92	75	57	84	45
40-49	166	113	179	125	147	147	133	114	116	117	119	103	90	82
50-59	206	212	232	199	175	191	189	177	181	177	161	152	166	127
60-64	272	313	295	283	223	236	257	256	213	257	208	189	190	182
65-69	346	301	348	319	273	240	268	275	333	254	295	273	183	245
70-79	460	456	356	367	375	377	380	370	339	349	358	393	288	350
80+	432	524	537	595	549	574	644	467	551	406	503	445	443	517
Male	236	241	248	223	193	209	202	203	201	199	187	174	182	156
Female	212	205	205	191	200	195	200	182	188	181	179	181	151	173
White	249	269	255	235	226	227	237	214	229	219	212	202	198	200
Black	176	137	173	153	142	168	130	148	122	138	125	131	109	96
Other race	162	61	162	139	109	95	154	159	136	117	107	113	93	100
†Hispanic								143	164	112	150	125	121	105
†Non-Hispanic								200	199	201	188	186	173	174
Diabetes	310	334	336	300	285	278	286	268	274	269	257	229	221	206
Hypertension	232	223	202	193	204	195	185	189	177	172	173	195	169	165
Glomerulonephritis	149	98	133	110	77	114	99	84	87	96	76	74	80	81
Other cause	151	150	145	135	117	140	130	133	144	117	121	135	118	136
All	225	224	228	208	196	202	201	193	195	190	183	177	167	164
ADJUSTED														
0-19	27	144	.	63	90	75	101	85	96	86	28	94	84	104
20-44	135	125	143	117	119	125	91	107	100	105	78	68	92	62
45-64	222	223	237	205	182	192	189	171	171	174	160	146	149	125
65-74	383	355	328	318	304	282	280	297	290	279	299	294	219	273
75+	504	514	481	506	443	500	569	430	487	377	431	449	354	427
Male	324	338	339	301	253	273	260	257	248	243	226	209	212	190
Female	312	283	286	270	278	270	269	243	257	240	240	242	197	220
White	345	366	344	315	295	293	301	269	283	267	260	243	234	237
Black	284	224	272	244	223	262	191	225	188	202	186	194	157	136
Other race	236	92	257	211	154	147	211	207	182	167	143	172	121	132
Diabetes	409	434	437	393	363	352	361	334	332	326	313	276	262	247
Hypertension	270	257	236	219	236	220	209	204	192	181	183	211	173	170
Glomerulonephritis	239	162	206	184	121	183	153	129	141	155	124	114	125	126
Other cause	219	219	218	205	179	212	193	205	217	182	177	203	174	210
All	318	312	315	286	264	271	264	250	251	241	231	222	204	203

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.

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Table H.41

Second-year mortality rates, transplant patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
0-4	13	.	.	11	18	15	.	39	35	22	18	11	8	27
5-9	.	.	9	.	18	.	9	17	9	.	18	11	.	15
10-14	.	8	.	.	6	6	.	.	.	.	.	5	15	15
15-19	11	10	4	23	10	16	6	13	7	11	8	15	9	.
20-29	18	13	14	15	11	5	10	11	11	10	8	8	11	12
30-39	27	22	23	23	18	20	17	17	16	14	16	20	16	15
40-49	36	34	27	28	27	32	20	27	21	24	18	20	27	18
50-59	47	38	32	40	48	46	37	41	29	32	27	32	37	32
60-64	89	48	57	52	48	55	48	46	36	46	40	46	51	57
65-69	67	54	69	65	54	69	82	53	67	56	58	71	47	64
70-79	67	126	90	102	105	93	58	80	73	68	76	75	72	57
80+	.	.	.	406	693	.	.	.	.	337	154	118	.	251
Male	34	28	27	29	28	32	27	26	25	27	25	29	29	30
Female	31	29	26	30	28	28	22	31	22	23	20	25	30	26
White	31	26	26	28	28	30	24	28	23	23	21	25	29	28
Black	42	37	29	37	33	33	28	31	23	34	31	38	34	30
Other race	20	19	13	26	11	21	22	9	25	20	16	25	15	25
†Hispanic								21	20	12	14	18	24	25
†Non-Hispanic								29	24	27	24	29	30	29
Diabetes	52	49	49	52	43	39	40	42	40	40	35	43	45	45
Hypertension	39	33	29	35	38	31	30	35	26	27	27	36	33	31
Glomerulonephritis	21	16	15	16	17	20	16	19	13	14	15	16	20	17
Other cause	27	21	17	21	19	30	16	19	17	20	17	20	21	20
All	33	28	26	29	28	30	25	28	24	25	23	28	29	28
ADJUSTED														
0-19	7	7	3	12	12	12	4	15	11	8	9	12	10	11
20-44	31	27	25	29	21	21	19	21	18	19	20	21	21	18
45-64	60	47	43	42	47	50	38	42	32	35	28	34	41	37
65-74	80	79	79	80	75	84	81	62	71	64	65	70	52	66
75+	80	79	79	80	75	84	81	62	71	64	65	70	52	66
Male	97	75	71	76	72	78	64	61	55	58	54	61	59	59
Female	96	87	76	85	77	74	58	77	56	56	49	59	67	57
White	94	75	74	75	74	76	60	68	56	52	48	53	62	57
Black	102	90	68	84	72	73	60	64	47	68	60	73	63	54
Other race	51	49	35	66	28	47	55	19	53	43	33	50	29	49
Diabetes	110	102	98	102	83	73	74	74	69	67	57	67	70	69
Hypertension	75	62	56	63	69	56	52	59	42	43	43	57	50	47
Glomerulonephritis	65	46	43	45	48	56	42	50	35	36	38	39	47	38
Other cause	70	55	45	53	49	74	39	44	38	46	39	42	46	42
All	96	79	72	78	73	75	61	66	55	57	51	59	62	57

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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 patients*per 1,000 patient years at risk, incident patients, by demographic characteristics & primary diagnosis*

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	30	26	10	22	32	42	9	15	39	35	7	21	48	13
5-9	11	.	16	.	8	17	13	7	47	.	8	7	21	21
10-14	15	6	5	22	22	23	29	8	16	11	.	7	10	10
15-19	19	29	19	11	16	21	14	27	19	28	26	29	17	25
20-29	37	42	47	40	42	43	41	43	36	35	36	45	42	45
30-39	71	72	72	75	82	72	69	71	64	68	63	66	60	66
40-49	103	109	111	109	108	108	103	104	101	100	103	97	101	94
50-59	168	172	167	168	178	165	166	158	159	149	145	146	140	137
60-64	219	230	232	224	232	227	215	215	219	195	196	205	193	196
65-69	271	289	294	284	285	274	265	256	270	253	250	246	236	237
70-79	347	345	366	346	365	338	353	345	335	333	334	326	306	300
80+	507	499	508	499	480	491	502	502	452	476	503	482	449	456
Male	175	178	187	183	198	187	188	182	185	185	183	184	179	179
Female	172	192	195	197	199	196	199	201	202	192	198	197	187	187
White	194	203	213	212	223	215	220	215	219	212	211	214	206	204
Black	142	157	159	159	163	158	157	155	154	152	160	156	148	152
Other race	138	134	131	132	143	146	138	166	164	165	155	150	141	138
†Hispanic									170	159	156	161	140	147
†Non-Hispanic									196	192	195	195	191	188
Diabetes	241	253	252	253	254	251	242	247	243	235	237	236	226	216
Hypertension	188	194	203	205	213	205	214	201	200	202	202	202	195	204
Glomerulonephritis	100	112	114	106	115	105	104	106	111	95	101	107	92	93
Other cause	138	136	147	133	146	133	138	135	142	137	136	133	131	135
All	174	184	191	190	198	191	193	191	193	188	190	190	183	182
ADJUSTED														
0-19	35	37	27	27	35	44	32	34	46	39	27	36	37	35
20-44	79	78	82	80	84	80	78	80	71	73	72	76	74	73
45-64	181	187	184	179	185	174	167	162	164	151	150	150	143	142
65-74	300	313	317	309	308	293	297	284	282	277	273	264	250	244
75+	437	414	451	413	441	416	425	429	408	403	415	407	379	385
Male	266	256	265	252	268	247	245	237	231	227	222	219	211	210
Female	232	248	249	243	241	235	234	232	229	215	220	218	203	200
White	281	277	287	275	282	264	264	255	250	239	235	234	223	218
Black	199	217	216	209	215	207	204	199	195	190	200	194	182	185
Other race	212	192	183	176	186	188	174	200	193	190	182	170	160	158
Diabetes	318	324	317	311	308	298	285	286	277	265	265	260	247	234
Hypertension	219	217	224	220	230	218	225	211	204	204	202	201	192	201
Glomerulonephritis	180	197	199	178	193	176	168	172	173	152	162	165	143	148
Other cause	201	193	213	193	209	191	196	187	194	186	186	180	175	182
All	249	252	257	247	254	241	239	234	229	221	221	218	207	205

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.

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Table H.43

Third-year mortality rates, dialysis patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	79	89	36	71	52	94	24	25	104	78	.	34	60	56
5-9	74	.	91	.	43	103	57	.	36	.	29	35	26	38
10-14	27	20	17	72	56	67	94	35	42	32	.	15	14	15
15-19	34	68	38	24	20	38	23	44	30	27	45	51	32	53
20-29	68	75	83	67	74	69	70	59	57	55	59	64	59	67
30-39	110	115	114	117	126	107	101	105	90	96	88	89	82	89
40-49	141	155	151	150	152	142	135	133	129	125	131	124	128	119
50-59	200	201	195	196	209	191	195	183	185	174	169	168	163	159
60-64	237	247	247	244	250	246	230	235	238	213	212	221	212	216
65-69	277	298	303	293	293	283	274	265	279	262	261	260	249	253
70-79	349	346	368	348	366	340	356	349	338	336	337	330	311	304
80+	507	499	510	499	480	491	503	502	452	476	504	482	450	457
Male	236	237	244	237	252	236	233	225	225	223	220	219	212	212
Female	215	236	237	239	239	231	235	234	233	223	229	227	216	214
White	274	282	291	287	298	281	284	276	276	269	266	266	255	253
Black	162	178	176	176	181	175	173	170	168	163	172	167	159	163
Other race	178	178	165	167	171	174	161	191	184	185	175	167	160	156
†Hispanic									195	184	181	180	160	166
†Non-Hispanic									234	229	231	230	225	221
Diabetes	299	310	300	298	300	289	279	280	275	265	265	261	250	238
Hypertension	216	221	230	230	239	230	238	221	218	219	218	218	212	221
Glomerulonephritis	155	175	170	157	169	149	148	149	153	133	142	149	127	131
Other cause	193	191	206	192	201	181	187	183	187	183	182	177	175	180
All	226	237	241	238	246	233	234	230	229	223	224	223	214	213
ADJUSTED														
0-19	74	98	72	68	56	99	77	72	72	58	58	73	56	80
20-44	124	127	130	127	133	123	119	117	103	105	102	104	103	101
45-64	216	221	214	211	221	204	197	192	194	178	177	176	168	168
65-74	304	318	324	315	313	300	305	292	288	285	283	274	261	254
75+	437	413	451	413	441	416	425	430	408	404	416	407	381	386
Male	292	282	291	276	294	269	266	257	249	245	240	235	227	227
Female	252	268	268	263	261	253	253	249	245	232	237	234	219	216
White	310	306	316	304	312	289	290	280	273	263	259	256	245	241
Black	208	226	223	217	224	215	213	207	202	195	205	200	188	191
Other race	225	212	195	190	196	198	182	211	200	197	191	177	169	167
Diabetes	357	361	349	343	342	326	312	313	303	289	289	282	267	254
Hypertension	232	231	238	234	244	233	240	223	215	215	213	211	205	213
Glomerulonephritis	197	220	217	194	213	188	182	187	187	165	179	182	157	167
Other cause	221	214	236	218	229	207	215	208	210	204	204	198	194	201
All	272	275	279	270	277	261	259	253	247	238	239	235	223	221

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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 patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	288	223	.	182	.	95	.	87	.	87	.	182	288	105
5-9	.	.	.	.	.	.	69	.	105	.	.	105	.	87
10-14	57	34	34	126	101	.	83	.	45	31	.	32	.	25
15-19	39	72	36	25	22	43	25	42	37	22	34	42	22	62
20-29	75	78	73	63	71	68	69	56	55	58	60	64	54	66
30-39	98	112	115	114	120	103	92	105	90	99	88	89	82	92
40-49	133	149	137	143	138	130	132	131	126	124	129	124	126	120
50-59	195	198	190	182	207	179	187	176	180	166	166	165	162	157
60-64	221	250	242	242	237	234	219	223	230	208	208	216	205	212
65-69	263	291	292	279	284	270	258	255	274	258	252	253	245	243
70-79	339	347	359	333	352	332	345	344	337	331	335	326	308	298
80+	511	502	506	483	476	485	479	491	444	465	505	476	446	456
Male	228	241	238	231	246	227	223	219	222	218	216	216	208	209
Female	212	237	237	233	237	229	232	235	234	225	232	228	219	215
White	268	288	292	285	295	273	277	274	276	268	267	265	255	252
Black	163	181	174	171	179	175	172	170	171	164	171	167	159	164
Other race	179	178	173	169	180	179	166	193	185	184	172	167	163	155
†Hispanic									192	184	177	179	159	167
†Non-Hispanic									233	226	230	228	223	220
Diabetes	289	307	288	283	290	273	265	272	268	259	259	257	246	234
Hypertension	210	222	229	225	230	225	230	215	216	217	222	214	213	219
Glomerulonephritis	156	178	172	155	178	146	149	155	155	131	141	153	127	128
Other cause	186	199	208	194	204	187	189	188	196	185	184	179	172	185
All	220	239	237	232	241	228	228	227	228	221	223	221	213	212
ADJUSTED														
0-19	98	131	68	88	70	82	84	83	86	54	59	94	44	122
20-44	115	126	123	125	125	117	116	118	104	109	101	104	101	102
45-64	209	220	208	203	215	194	190	185	189	173	175	174	167	167
65-74	290	313	314	304	304	289	292	286	286	281	278	269	260	247
75+	434	421	447	393	428	413	413	422	408	398	415	403	376	383
Male	279	284	279	265	284	256	253	248	245	238	235	230	222	222
Female	243	263	261	252	252	245	246	246	243	231	237	233	220	215
White	295	303	307	292	300	274	277	271	268	257	256	252	241	237
Black	205	226	215	207	218	212	207	204	203	194	203	199	186	190
Other race	224	207	197	187	201	198	182	208	197	194	184	175	170	164
Diabetes	344	356	333	324	329	307	296	302	294	283	282	277	264	249
Hypertension	225	231	236	228	235	226	234	216	215	214	216	208	205	211
Glomerulonephritis	195	218	210	187	217	181	177	189	189	159	173	184	153	161
Other cause	209	217	232	214	225	208	210	209	215	202	203	197	187	203
All	261	273	270	258	268	250	249	247	244	234	236	231	221	219

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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.

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Table H.45

Third-year mortality rates, CAPD/CCPD patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	.	74	61	65	.	83	30	.	128	91	.	.	43	54
5-9	182	.	87	.	.	87	69	.	.	.	61	.	47	.
10-14	.	.	.	.	.	167	54	82	47	39	.	.	36	.
15-19	45	86	67	43	23	41	.	25	20	51	58	124	68	25
20-29	58	75	118	83	85	69	41	61	60	55	52	91	78	89
30-39	137	128	103	115	159	148	127	102	88	71	85	81	83	55
40-49	194	193	213	170	204	172	151	138	148	131	140	107	154	119
50-59	237	235	210	266	206	246	231	203	208	232	173	190	158	173
60-64	356	254	297	250	276	285	245	286	258	228	231	290	253	247
65-69	315	379	350	356	317	341	369	271	281	333	367	362	296	346
70-79	360	451	516	413	502	348	432	348	357	414	365	404	350	352
80+	539	778	439	419	504	584	765	776	630	609	693	580	475	443
Male	258	243	263	240	259	249	250	218	223	247	234	219	233	220
Female	209	232	222	221	214	220	210	195	188	181	177	202	155	179
White	276	277	282	269	284	278	275	241	242	248	228	239	225	225
Black	147	161	179	167	161	161	160	153	138	145	155	160	146	153
Other race	183	207	114	129	107	170	129	154	159	193	196	157	126	161
†Hispanic									190	141	177	163	142	140
†Non-Hispanic									207	224	210	218	205	208
Diabetes	362	351	355	338	319	342	338	307	303	294	295	293	256	262
Hypertension	230	241	230	215	259	224	233	200	191	219	166	214	179	190
Glomerulonephritis	135	139	147	129	105	151	121	106	112	119	130	96	98	144
Other cause	173	165	178	168	183	135	136	114	112	141	130	135	173	126
All	234	237	243	231	237	235	230	207	205	215	205	211	195	200
ADJUSTED														
0-19	58	75	84	48	16	120	44	49	67	72	39	58	71	31
20-44	161	143	145	123	165	160	123	105	105	82	105	99	124	90
45-64	276	248	255	256	232	244	226	216	207	213	179	190	173	177
65-74	348	432	422	364	373	347	384	288	304	365	350	365	299	317
75+	462	542	531	516	628	426	607	550	473	490	489	482	431	436
Male	379	345	386	339	361	334	340	291	292	317	296	271	287	263
Female	331	363	324	326	317	322	305	276	262	257	242	284	215	236
White	410	401	401	375	392	373	370	317	310	316	285	299	277	269
Black	256	266	299	267	262	255	255	230	216	229	232	241	223	222
Other race	310	310	174	204	170	235	197	223	221	268	289	218	198	215
Diabetes	499	478	481	452	426	447	438	396	385	369	366	365	314	315
Hypertension	286	297	278	264	314	268	280	241	220	250	180	237	207	204
Glomerulonephritis	226	228	246	199	179	236	198	167	171	194	216	159	150	226
Other cause	253	242	257	252	276	201	207	169	173	209	203	197	261	181
All	356	352	355	332	340	328	323	283	277	289	269	275	253	250

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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 of 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 patients

per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

UNADJUSTED	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-4	27	13	14	.	11	18	.	12	.	9	11	.	22	.
5-9	.	.	.	9	10	.	.	9	26	9	.	9	11	9
10-14	.	6	.	7	12	.	.	.	.	.	5	.	5	5
15-19	13	7	7	15	20	10	5	6	13	10	.	11	6	3
20-29	15	18	17	19	16	21	14	14	15	12	7	8	6	13
30-39	34	22	26	23	19	26	20	17	19	19	17	18	16	15
40-49	38	35	39	29	34	31	27	25	29	25	25	25	18	25
50-59	55	53	43	50	46	49	46	44	36	39	39	34	35	32
60-64	46	48	67	70	46	76	69	64	49	56	55	73	42	66
65-69	93	97	81	79	86	81	81	73	79	71	79	87	54	49
70-79	125	189	145	79	100	104	113	111	50	132	67	77	81	62
80+	.	.	.	.	.	.	.	.	.	.	223	.	.	.
Male	39	32	38	36	32	36	31	30	29	30	32	30	24	30
Female	29	31	26	26	30	33	30	27	29	30	25	31	28	26
White	31	30	35	29	29	35	29	29	27	28	29	30	25	26
Black	49	39	30	41	42	35	35	35	34	35	28	35	31	40
Other race	29	17	11	33	21	27	27	8	32	27	26	21	12	16
†Hispanic									20	18	22	26	12	23
†Non-Hispanic									30	31	30	31	28	29
Diabetes	59	47	57	44	54	57	41	41	44	49	47	49	40	40
Hypertension	45	47	37	32	34	33	36	37	38	30	32	29	33	33
Glomerulonephritis	21	17	19	26	19	22	25	19	19	18	21	20	14	20
Other cause	28	25	26	27	24	28	22	23	19	23	17	24	18	22
All	35	31	33	32	31	35	30	29	29	30	29	30	25	28
ADJUSTED														
0-19	11	8	6	11	18	8	3	6	11	8	3	7	10	4
20-44	37	29	30	27	26	30	26	22	22	21	19	20	17	21
45-64	57	56	58	57	50	56	47	46	43	43	43	45	35	40
65-74	116	118	96	90	101	87	91	87	79	89	79	91	67	55
75+	116	118	96	90	101	87	91	87	79	89	79	91	67	55
Male	114	92	105	98	84	93	76	74	68	68	70	65	50	62
Female	91	95	80	75	87	92	81	72	74	75	61	77	66	59
White	98	91	102	83	79	96	75	72	66	68	68	69	55	56
Black	118	96	74	96	97	76	78	77	72	71	56	69	60	74
Other race	89	45	30	88	58	69	62	21	69	60	56	43	25	30
Diabetes	132	106	124	92	111	116	80	78	82	89	82	85	67	65
Hypertension	87	92	70	61	63	59	64	66	64	50	53	47	53	51
Glomerulonephritis	64	53	58	79	54	65	71	52	49	49	56	50	34	49
Other cause	73	64	68	70	58	70	54	55	45	52	39	54	39	48
All	104	92	94	88	84	91	77	72	69	70	66	69	56	60

Reference cohort is 1996 incident ESRD patients.

Overall mortality rates are adjusted for age, gender, race, & primary diagnosis. Rates for one of the four variables are adjusted for the remaining three. Rates for Hispanic & non-Hispanic patients are unadjusted.

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

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U.S. patients only; patients of unknown age or gender, or of age >110, are excluded.

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

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h mortality & causes of death

