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Table H.1  
**Total ESRD Patient Deaths**  
*by age, race, ethnicity, gender, & primary diagnosis*

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
0-4	*	11	12	13	25	23	28	21	31	31	42	34	33	29	34	33	28	42	31	47	4
5-9	15	19	11	*	*	14	11	12	10	12	22	16	12	15	*	18	19	13	13	21	1
10-14	29	13	12	10	16	22	22	20	24	25	33	20	20	19	17	25	22	25	17	33	2
15-19	46	61	33	60	47	45	39	45	57	49	61	53	44	49	47	62	54	57	49	59	5
20-29	352	374	352	377	388	391	433	418	492	528	497	468	544	502	522	553	571	527	514	533	53
30-39	784	814	947	926	1,072	1,172	1,364	1,449	1,529	1,550	1,662	1,668	1,874	1,927	2,094	2,198	2,243	2,186	2,145	2,267	2,16
40-49	1,125	1,262	1,237	1,368	1,522	1,661	1,865	2,016	2,178	2,358	2,691	2,809	3,261	3,365	3,868	4,331	4,570	4,768	4,931	5,294	5,40
50-59	2,194	2,339	2,553	2,936	2,898	3,373	3,459	3,647	4,017	4,226	4,362	4,597	5,103	5,616	6,378	6,903	7,394	8,004	8,732	9,823	10,28
60-64	1,482	1,627	1,874	2,049	2,398	2,757	2,967	3,080	3,460	3,622	3,775	4,113	4,477	4,652	5,048	5,455	5,782	6,120	6,575	7,122	7,34
65-69	1,836	1,979	2,122	2,522	2,763	3,198	3,654	3,827	4,409	4,828	5,328	5,723	6,335	6,773	7,143	7,668	8,086	8,553	8,897	9,273	9,60
70-79	2,414	2,841	3,268	3,813	4,538	5,324	5,866	6,606	7,584	8,465	9,503	10,524	12,375	13,728	14,722	16,367	17,955	19,032	20,878	22,596	23,31
80+	655	771	899	1,092	1,363	1,639	1,904	2,220	2,736	3,321	3,715	4,399	5,174	5,958	6,883	7,707	8,687	9,960	11,195	12,710	13,89
0-19	99	104	68	91	95	104	100	98	122	117	158	123	109	112	104	138	123	137	110	160	13
20-44	1,599	1,744	1,841	1,877	2,163	2,267	2,593	2,793	2,986	3,174	3,398	3,450	3,923	3,948	4,333	4,662	4,776	4,704	4,760	4,980	4,92
45-64	4,338	4,672	5,122	5,779	6,115	7,087	7,495	7,817	8,690	9,110	9,589	10,205	11,336	12,114	13,577	14,778	15,784	16,901	18,137	20,059	20,81
65-74	3,264	3,694	4,071	4,757	5,379	6,252	6,930	7,560	8,579	9,402	10,462	11,476	13,205	14,248	15,239	16,512	17,557	18,433	19,600	20,593	21,21
75+	1,641	1,897	2,218	2,670	3,285	3,909	4,494	5,093	6,150	7,212	8,084	9,170	10,679	12,211	13,509	15,230	17,171	19,112	21,370	23,986	25,59
Male	6,208	6,934	7,498	8,478	9,406	10,893	12,033	12,932	14,559	15,785	17,103	18,384	20,813	22,503	24,679	26,932	29,158	30,829	33,311	36,289	37,90
Female	4,733	5,177	5,822	6,696	7,631	8,726	9,579	10,429	11,968	13,230	14,588	16,040	18,439	20,130	22,078	24,386	26,253	28,458	30,665	33,484	34,69
Unknown															*	*			*	*	8
White	6,915	7,641	8,728	10,134	11,481	13,266	14,480	15,806	17,918	19,395	21,454	23,338	26,691	28,633	31,062	33,902	35,802	38,452	41,634	45,035	47,12
Black	3,622	4,030	4,083	4,576	4,982	5,633	6,272	6,655	7,472	8,510	9,118	9,950	11,144	12,385	13,739	14,975	16,261	17,164	18,416	20,326	20,92
Native American	89	79	113	113	146	206	224	247	283	306	374	399	464	543	600	682	810	837	843	975	1,02
Asian	50	53	99	113	238	326	440	478	611	574	641	632	743	780	1,033	1,207	1,553	1,660	1,806	2,068	2,04
Other/unknown	265	308	297	238	190	188	196	175	243	230	104	105	210	292	328	554	985	1,174	1,278	1,374	1,56
†Hispanic																	3,391	4,407	5,344	6,153	6,62
†Non-Hispanic																	52,020	54,880	58,633	63,625	66,05
Diabetes	1,104	1,538	2,206	3,101	3,775	4,810	5,769	6,635	7,615	8,608	10,040	11,516	13,383	15,004	16,369	18,885	21,636	24,001	27,114	30,374	31,63
Hypertension	1,107	1,563	2,215	2,872	3,682	4,558	5,110	6,050	7,158	8,199	9,130	10,265	11,527	12,649	13,724	14,739	15,217	16,475	17,469	18,884	19,76
Glomerulonephritis	821	1,005	1,308	1,559	1,817	2,099	2,407	2,688	3,075	3,233	3,503	3,526	3,790	3,904	4,158	4,564	4,887	5,085	5,217	5,583	5,70
Cystic kidney	247	297	322	432	497	589	673	630	745	772	824	784	838	932	913	1,059	1,092	1,153	1,150	1,236	1,26
Other urologic	112	155	196	229	251	315	414	444	486	539	557	597	699	739	765	844	959	963	1,046	1,147	1,23
Other cause	656	785	1,086	1,531	1,821	2,166	2,474	2,780	2,928	3,161	3,400	3,490	3,737	3,947	4,265	4,988	5,837	6,180	6,616	7,291	7,56
Unknown cause	932	1,035	1,100	1,063	1,129	1,235	1,235	1,259	1,612	1,730	1,604	1,647	1,926	1,938	1,827	2,059	2,162	2,332	2,501	2,630	2,80
Missing cause	5,962	5,733	4,887	4,387	4,065	3,847	3,530	2,875	2,908	2,773	2,633	2,599	3,352	3,520	4,741	4,182	3,621	3,098	2,864	2,633	2,71
All	10,941	12,111	13,320	15,174	17,037	19,619	21,612	23,361	26,527	29,015	31,691	34,424	39,252	42,633	46,762	51,320	55,411	59,287	63,977	69,778	72,68

Patient age is determined on 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 fewer than 10 patients are suppressed.

." Zero values in this cell.

Table H.2

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: ESRD Patients, by Primary Diagnosis**

*period prevalent patients, 2001 ESRD patients as reference*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	70	62	53	55	55	62	63	55	50	44	39
20-29	86	76	69	69	62	62	63	59	62	62	57
30-39	112	100	98	89	89	87	87	82	81	76	73
40-49	142	137	132	131	124	122	123	115	112	105	102
50-59	184	177	175	186	179	187	181	176	177	170	160
60-64	255	244	247	245	246	253	253	243	244	236	221
65-69	308	312	310	319	307	311	314	299	300	289	281
70-79	374	379	384	379	387	396	388	377	379	374	363
80+	524	549	556	530	542	536	533	497	526	521	483
0-19	64	60	53	54	56	63	65	55	51	46	41
20-44	106	101	97	90	90	87	87	82	82	78	75
45-64	199	189	187	194	189	196	194	187	186	178	167
65-74	324	335	331	335	329	336	336	324	324	315	305
75+	456	447	464	456	474	472	458	441	454	451	434
Male	253	248	249	247	244	248	246	237	241	234	221
Female	225	227	225	226	223	227	222	215	216	210	202
White	256	257	255	258	255	262	257	249	250	241	229
Black	212	211	206	208	198	200	201	192	196	196	188
Native American	231	203	222	179	209	215	227	222	210	193	200
Asian	225	190	231	198	230	223	220	202	211	187	174
†Hispanic											
†Non-Hispanic											
All	240	238	237	237	234	238	235	227	229	222	212

  

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	40	38	36	32	34	31	34	30	34	31	32
20-29	54	52	51	50	48	48	47	45	47	44	48
30-39	69	68	67	64	66	64	63	61	63	60	60
40-49	98	98	93	90	90	89	87	85	86	83	85
50-59	151	146	144	141	140	137	132	129	131	126	126
60-64	211	208	204	196	194	190	184	181	183	178	176
65-69	268	260	255	248	246	243	237	236	235	229	228
70-79	350	348	345	335	332	332	323	324	331	325	325
80+	477	476	479	467	475	475	474	480	501	488	492
0-19	41	40	37	32	34	32	34	31	35	33	33
20-44	72	71	70	67	68	67	66	64	65	63	63
45-64	160	156	152	147	145	141	137	134	136	131	132
65-74	292	289	285	276	274	272	265	265	267	261	259
75+	423	417	420	412	413	415	407	411	425	417	421
Male	210	207	204	197	195	193	187	185	187	182	182
Female	196	195	193	188	188	185	183	183	187	182	183
White	221	218	216	209	206	201	196	194	196	190	189
Black	182	179	180	175	177	176	173	173	179	176	179
Native American	174	170	170	169	163	166	166	166	169	173	174
Asian	152	146	131	133	136	145	145	142	143	135	133
†Hispanic							122	135	144	144	146
†Non-Hispanic							182	180	182	187	186
All	204	201	199	193	192	189	185	184	187	182	182

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis.

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

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, & counts of total deaths, years at risk, & total patients (Tables H.2.1 & H.2.2).

Table H.2 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: ESRD Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>DIABETES</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	140	121	105	111	107	121	126	108	94	82	74
20-29	162	141	128	132	116	117	119	110	113	111	102
30-39	198	175	174	160	158	153	154	143	139	125	119
40-49	237	225	221	224	210	201	208	189	181	169	162
50-59	285	272	262	289	271	286	277	272	272	253	235
60-64	363	348	352	351	349	356	351	340	336	321	301
65-69	402	408	406	430	404	404	411	394	388	372	358
70-79	444	452	473	467	478	489	467	459	456	445	431
80+	560	593	599	597	634	596	601	560	615	597	527
0-19	124	118	103	107	109	123	131	106	96	85	79
20-44	191	185	176	163	162	156	156	143	143	132	126
45-64	301	280	277	297	283	292	290	281	276	259	243
65-74	421	440	432	445	426	431	429	414	407	393	379
75+	510	487	530	531	570	554	515	511	531	514	487
Male	340	328	330	334	330	328	326	312	316	299	281
Female	308	311	308	317	309	316	309	297	293	281	265
White	359	357	352	361	360	366	359	347	340	321	303
Black	264	265	257	263	240	238	242	226	236	235	221
Native American	244	216	276	220	262	255	253	236	242	237	230
Asian	303	194	291	289	320	296	282	276	295	258	236
†Hispanic											
†Non-Hispanic											
All	325	320	319	325	319	321	318	305	305	290	273
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	74	70	65	57	60	55	60	53	62	55	58
20-29	96	91	90	90	84	84	83	77	82	75	83
30-39	112	109	104	96	99	98	97	96	99	94	95
40-49	157	153	142	136	134	132	130	128	130	124	124
50-59	219	215	212	204	201	196	188	186	187	180	181
60-64	284	284	274	264	258	250	239	238	240	232	227
65-69	341	327	321	308	306	301	297	293	294	284	282
70-79	417	414	418	401	391	387	371	372	382	371	371
80+	530	535	537	521	527	538	530	530	559	533	537
0-19	76	74	65	55	60	55	60	54	63	58	60
20-44	119	116	111	105	106	106	105	103	105	100	100
45-64	230	227	219	210	205	199	192	191	194	186	186
65-74	363	358	355	340	334	329	320	318	322	313	311
75+	480	469	476	466	463	468	451	453	471	452	457
Male	266	262	258	247	243	242	232	229	234	225	226
Female	258	256	252	243	240	235	231	231	237	228	228
White	291	287	284	273	266	262	251	249	254	242	241
Black	214	211	209	199	201	197	196	195	203	199	203
Native American	219	210	195	193	193	203	199	195	197	191	190
Asian	199	208	173	176	179	200	200	197	192	182	176
†Hispanic						185	200	218	212	207	209
†Non-Hispanic						244	239	241	251	242	246
All	262	259	255	245	241	238	231	230	235	226	227

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.2.1 &amp; H.2.2).

Table H.2 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: ESRD Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>HYPERTENSION</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	29	26	23	24	27	31	29	27	26	24	21
20-29	40	37	34	33	34	35	34	33	35	37	32
30-39	60	55	55	49	53	52	52	50	52	49	49
40-49	87	85	86	82	81	83	83	78	79	74	73
50-59	127	124	132	136	140	148	146	140	145	144	137
60-64	196	191	201	205	206	221	221	218	217	221	209
65-69	263	271	281	285	283	283	287	273	287	276	272
70-79	352	362	351	344	361	380	364	368	376	380	365
80+	539	575	593	540	523	536	520	505	529	539	516
0-19	26	23	24	26	29	32	30	29	28	26	23
20-44	54	51	55	51	53	51	53	51	54	51	50
45-64	147	143	149	152	155	167	165	160	161	161	153
65-74	279	301	293	294	299	313	309	305	315	313	302
75+	462	449	467	449	459	462	444	440	457	463	447
Male	206	204	206	202	202	214	215	208	214	213	204
Female	179	189	192	187	193	196	186	186	191	191	184
White	201	205	212	213	214	226	218	214	221	219	211
Black	172	175	168	166	164	165	167	162	167	171	165
Native American	223	214	222	160	188	203	243	254	195	174	200
Asian	200	191	209	140	192	178	179	160	172	161	152
†Hispanic											
†Non-Hispanic											
All	193	196	199	195	198	206	201	197	203	202	194
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	23	22	21	18	21	18	19	17	20	19	20
20-29	33	32	32	28	29	27	27	26	27	28	30
30-39	46	47	47	46	49	43	41	40	41	42	42
40-49	72	75	71	69	69	68	68	68	66	68	69
50-59	135	129	122	124	122	120	114	112	118	112	114
60-64	207	195	201	191	195	182	178	176	180	176	173
65-69	261	259	255	251	251	245	238	235	235	224	228
70-79	350	349	352	338	336	329	327	326	333	327	326
80+	495	487	488	486	478	471	474	477	488	484	490
0-19	25	25	25	21	23	20	22	19	22	21	22
20-44	49	50	51	49	50	45	45	45	45	45	46
45-64	151	144	141	137	137	131	127	125	128	125	125
65-74	290	291	288	281	282	275	271	267	271	262	262
75+	432	427	435	426	419	414	412	415	424	422	426
Male	195	191	186	183	181	175	172	172	173	169	169
Female	181	180	183	178	179	174	172	169	175	173	175
White	206	205	202	196	195	187	184	181	183	179	179
Black	162	157	159	156	157	156	154	156	161	159	161
Native American	137	153	164	164	150	140	155	159	160	171	193
Asian	131	113	113	113	122	118	119	119	121	115	112
†Hispanic						127	141	135	145	141	138
†Non-Hispanic						213	214	214	218	217	219
All	188	186	184	181	180	175	172	171	174	170	172

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.2.1 &amp; H.2.2).

Table H.2 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: ESRD Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>GLOMERULONEPHRITIS</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	20	18	16	17	18	20	21	21	20	19	18
20-29	29	26	24	24	23	23	25	25	27	27	26
30-39	44	40	38	36	35	35	37	42	42	43	39
40-49	66	64	61	60	59	58	60	58	58	55	56
50-59	98	95	103	109	104	107	101	101	104	105	102
60-64	155	149	155	161	168	164	166	158	172	164	156
65-69	213	216	223	228	222	226	218	213	225	215	218
70-79	291	295	308	299	307	308	308	295	313	310	302
80+	455	477	512	474	467	474	444	417	450	438	438
0-19	20	18	17	18	20	21	21	21	20	20	19
20-44	39	36	35	35	34	34	37	39	40	39	38
45-64	113	108	108	113	111	112	109	105	110	107	104
65-74	217	231	244	243	238	245	243	235	252	245	243
75+	353	339	388	377	394	401	384	365	387	381	379
Male	166	164	175	174	175	175	173	168	176	171	164
Female	142	147	148	145	142	147	141	137	146	145	146
White	156	158	163	161	156	157	155	150	159	160	154
Black	158	152	163	166	168	165	158	156	166	160	162
Native American	194	123	74	83	141	186	189	166	148	127	140
Asian	85	135	152	103	133	158	162	143	143	113	122
†Hispanic											
†Non-Hispanic											
All	155	156	162	160	159	161	158	153	161	158	156
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	18	16	16	13	14	13	15	12	14	12	13
20-29	23	22	23	20	20	19	21	20	21	20	22
30-39	38	35	35	32	32	31	32	30	30	28	29
40-49	55	54	52	52	53	52	51	49	47	48	49
50-59	95	87	89	85	86	83	82	76	81	76	77
60-64	146	145	134	129	127	133	128	123	121	117	120
65-69	200	193	188	182	184	179	171	172	168	166	162
70-79	288	291	271	260	261	266	253	257	256	255	249
80+	424	430	418	414	428	418	413	412	434	424	423
0-19	19	16	16	13	14	14	15	13	14	13	13
20-44	36	34	35	32	33	32	33	31	31	30	31
45-64	98	94	90	86	86	85	82	78	79	77	78
65-74	226	224	213	206	206	207	200	201	195	194	187
75+	363	367	351	343	355	353	334	339	353	349	349
Male	157	153	149	142	143	140	136	132	134	129	129
Female	137	137	129	128	130	131	127	129	129	130	128
White	145	145	139	137	136	136	132	131	131	131	127
Black	154	148	145	137	141	138	134	131	134	129	134
Native American	139	139	105	97	113	115	107	124	134	143	129
Asian	110	112	95	88	91	97	103	93	92	85	93
†Hispanic						46	49	52	51	54	58
†Non-Hispanic						101	98	96	98	97	94
All	148	146	140	136	137	136	132	130	132	129	128

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.2.1 &amp; H.2.2).

Table H.2 (continued)

### Adjusted Annual Death Rates per 1,000 Patient Years at Risk: ESRD Patients, by Primary Diagnosis

period prevalent patients, 2001 ESRD patients as reference

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	47	43	36	34	34	38	35	33	32	29	24
20-29	62	56	50	46	43	41	39	37	42	44	42
30-39	86	77	75	67	66	64	63	60	58	59	58
40-49	117	112	101	96	90	93	90	87	87	82	79
50-59	159	152	146	147	143	147	141	134	135	132	124
60-64	231	217	213	203	204	209	215	202	202	189	174
65-69	290	286	273	274	269	280	282	261	251	249	238
70-79	363	356	349	352	349	356	363	338	332	325	318
80+	521	527	514	487	501	508	527	480	474	465	432
0-19	48	44	35	34	34	37	35	33	31	28	24
20-44	84	78	72	65	62	61	59	57	57	58	58
45-64	170	162	156	153	150	154	153	145	146	138	127
65-74	308	302	293	297	294	302	303	285	276	269	258
75+	457	457	435	427	425	439	454	412	405	408	395
Male	230	227	219	214	210	216	215	206	201	197	184
Female	201	191	184	180	180	183	185	169	171	165	161
White	216	211	203	200	197	199	198	185	186	180	172
Black	215	206	199	197	195	203	206	194	186	188	179
Native American	245	208	205	185	182	183	185	192	211	181	183
Asian	195	199	185	160	172	190	202	164	153	136	120
†Hispanic											
†Non-Hispanic											
All	216	210	202	198	196	200	201	189	187	182	174
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	25	26	24	24	26	24	24	22	25	23	22
20-29	41	41	38	40	38	41	36	35	34	34	35
30-39	55	57	60	64	65	66	61	57	58	54	54
40-49	75	77	78	78	79	77	74	71	72	69	72
50-59	116	112	112	111	112	110	107	105	105	103	99
60-64	168	167	165	163	158	160	158	153	158	154	154
65-69	225	224	217	216	214	217	212	212	207	209	207
70-79	308	303	300	301	302	310	305	308	316	315	317
80+	431	425	438	421	441	437	447	464	483	482	485
0-19	24	25	24	23	25	23	24	22	24	23	22
20-44	56	57	58	60	61	63	57	55	56	53	54
45-64	121	118	118	116	115	114	111	107	108	105	105
65-74	251	248	242	242	242	245	240	242	242	242	241
75+	381	375	382	378	385	391	395	404	417	417	423
Male	178	174	174	172	173	175	170	167	169	167	167
Female	155	156	156	156	158	159	157	159	164	161	161
White	166	164	163	158	159	157	156	156	157	153	153
Black	173	174	176	181	183	189	183	182	187	188	191
Native American	168	139	170	174	157	166	155	150	154	160	149
Asian	116	103	101	108	105	111	106	107	118	110	110
†Hispanic						79	79	76	91	79	74
†Non-Hispanic						143	139	138	139	139	138
All	167	166	166	165	166	167	164	164	166	164	165

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis.

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

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, & counts of total deaths, years at risk, & total patients (Tables H.2.1 & H.2.2).



Table H.3

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Dialysis Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>ALL</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	89	79	69	82	79	97	92	83	72	66	61
20-29	114	104	96	98	90	92	94	91	100	99	89
30-39	134	123	124	117	118	121	126	128	129	123	119
40-49	157	152	147	152	145	149	156	153	155	148	143
50-59	195	188	186	198	193	204	202	200	208	203	193
60-64	260	251	253	252	251	260	264	258	262	257	242
65-69	311	315	313	322	311	317	320	308	310	300	292
70-79	374	379	384	382	390	399	392	382	385	379	368
80+	521	546	556	530	539	539	535	501	529	524	486
0-19	81	76	68	79	78	97	93	82	73	68	65
20-44	129	126	123	118	118	119	123	124	128	123	118
45-64	209	199	198	208	203	215	217	214	219	213	202
65-74	328	339	334	339	332	342	341	331	332	324	313
75+	455	447	465	457	474	474	462	444	458	455	437
Male	260	257	258	260	257	265	266	261	268	262	248
Female	233	235	233	235	233	240	236	231	235	230	221
White	267	269	267	272	271	282	279	277	281	273	261
Black	217	216	211	214	203	207	209	202	207	208	199
Native American	238	204	224	179	215	227	241	238	226	210	218
Asian	223	192	236	205	238	233	232	215	226	203	189
†Hispanic											
†Non-Hispanic											
All	247	246	246	248	245	253	252	248	253	247	236
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	64	66	61	52	56	53	59	52	60	54	57
20-29	84	82	78	76	74	76	72	69	71	67	70
30-39	112	112	110	105	107	106	105	103	105	98	98
40-49	138	141	136	132	133	130	129	126	129	125	127
50-59	184	183	181	178	176	172	168	166	170	166	167
60-64	235	234	232	226	223	220	216	215	221	216	215
65-69	281	276	272	266	266	265	262	263	265	261	263
70-79	356	355	353	342	340	341	334	336	345	340	342
80+	480	480	481	468	477	477	477	483	505	492	496
0-19	66	70	63	53	57	54	60	53	61	56	59
20-44	113	113	111	108	109	108	106	104	105	100	100
45-64	195	193	190	185	183	179	175	173	178	173	174
65-74	303	302	299	291	290	290	286	287	292	288	288
75+	427	422	423	415	416	419	412	417	431	424	430
Male	237	236	232	226	223	222	216	214	218	212	213
Female	216	216	216	211	212	209	208	209	215	210	212
White	252	253	251	243	240	236	231	230	235	228	228
Black	193	191	191	187	189	189	187	186	193	190	195
Native American	193	189	189	190	183	186	184	186	191	196	199
Asian	164	162	145	148	149	159	159	158	160	153	151
†Hispanic						161	174	185	189	184	186
†Non-Hispanic						238	236	238	246	243	246
All	227	227	225	219	218	216	212	211	216	211	212

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.3.1 &amp; H.3.2).

Table H.3 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Dialysis Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>DIABETES</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	179	157	135	165	154	188	182	159	135	120	111
20-29	218	195	181	189	167	170	176	167	180	172	154
30-39	240	219	219	211	209	213	224	223	223	205	194
40-49	262	253	247	260	246	245	261	254	250	236	224
50-59	302	290	277	304	288	306	301	302	307	288	269
60-64	371	358	359	360	355	365	363	356	352	336	316
65-69	404	411	410	434	409	411	416	401	397	380	365
70-79	440	448	470	468	479	489	470	462	461	448	433
80+	549	581	597	590	619	596	596	558	609	597	529
0-19	158	151	131	154	149	186	185	156	136	124	120
20-44	233	230	223	213	212	214	221	217	223	209	198
45-64	315	294	291	314	300	314	317	315	314	296	277
65-74	426	445	435	449	431	437	434	422	415	399	384
75+	502	484	526	526	563	551	515	510	533	517	489
Male	353	344	346	354	350	353	354	348	355	336	317
Female	325	325	323	335	325	336	333	325	322	309	291
White	380	379	374	388	387	400	398	393	390	368	348
Black	273	273	266	273	246	247	252	239	249	247	232
Native American	254	216	268	214	266	266	268	253	257	253	244
Asian	289	188	295	297	329	308	292	293	316	279	254
†Hispanic											
†Non-Hispanic											
All	340	335	335	344	338	345	345	338	340	323	305
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	116	115	104	88	93	88	99	85	100	87	93
20-29	143	136	132	129	123	126	123	113	118	105	113
30-39	182	177	171	159	162	165	163	160	163	151	151
40-49	217	214	202	195	192	190	188	182	186	178	177
50-59	249	249	245	237	232	226	217	216	218	210	212
60-64	300	301	290	280	274	267	255	257	261	252	247
65-69	349	335	329	316	314	311	308	304	307	297	298
70-79	420	418	422	404	394	391	376	377	387	376	377
80+	533	537	537	520	526	538	530	529	560	532	537
0-19	120	123	106	88	93	88	98	86	101	92	96
20-44	186	182	175	168	170	172	168	163	166	157	156
45-64	262	262	254	244	238	233	224	224	227	219	219
65-74	370	365	362	346	341	337	329	327	333	324	323
75+	483	471	478	467	464	470	453	455	473	454	459
Male	299	296	289	278	272	273	262	259	265	255	255
Female	285	283	280	269	267	262	258	258	264	254	255
White	334	332	327	314	307	304	292	290	295	282	281
Black	225	221	219	208	210	207	208	205	215	209	214
Native American	233	227	209	206	206	216	213	208	210	203	202
Asian	215	227	189	192	192	215	214	212	206	195	190
†Hispanic						204	219	237	231	224	228
†Non-Hispanic						287	279	281	293	283	287
All	292	290	285	274	270	267	260	258	264	254	255

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.3.1 &amp; H.3.2).

Table H.3 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Dialysis Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>HYPERTENSION</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	36	34	30	36	39	49	44	41	38	36	33
20-29	54	50	49	48	51	52	52	51	58	61	53
30-39	72	68	70	65	70	74	74	78	81	79	77
40-49	96	96	95	96	96	100	102	102	106	103	100
50-59	134	133	140	147	152	162	162	156	168	171	164
60-64	201	198	206	208	208	226	229	227	231	238	226
65-69	267	276	283	288	284	288	291	279	293	284	279
70-79	353	364	355	348	365	384	368	372	381	385	369
80+	537	573	590	542	529	543	526	513	535	543	518
0-19	34	31	32	38	40	51	47	44	41	39	36
20-44	68	66	70	68	69	71	74	78	83	80	76
45-64	153	151	157	162	166	181	182	180	187	190	182
65-74	284	306	297	298	302	317	314	311	321	319	308
75+	462	451	469	452	462	467	449	446	463	468	450
Male	211	210	213	211	212	227	229	224	234	234	224
Female	186	196	198	194	201	205	195	198	205	206	199
White	209	215	221	224	226	241	234	233	244	244	235
Black	176	178	171	170	168	171	173	169	176	180	173
Native American	222	219	234	159	199	223	271	269	207	193	222
Asian	206	199	214	146	197	184	190	170	183	174	161
†Hispanic											
†Non-Hispanic											
All	199	203	206	203	206	217	214	212	221	221	212
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	37	38	34	28	33	29	32	28	33	31	33
20-29	52	50	46	41	43	41	40	39	40	40	42
30-39	71	74	71	70	73	67	66	64	64	63	63
40-49	97	104	99	93	93	90	94	95	94	94	95
50-59	164	160	152	154	153	149	144	142	153	145	147
60-64	225	215	224	214	220	209	205	206	212	209	205
65-69	270	270	267	265	267	263	257	256	257	247	255
70-79	354	354	356	343	341	335	334	334	342	337	337
80+	498	491	491	488	479	473	477	480	491	487	493
0-19	40	43	40	33	36	32	36	31	36	34	36
20-44	73	75	76	73	73	66	69	67	66	65	65
45-64	180	175	172	167	169	163	158	158	165	160	160
65-74	297	300	298	291	293	289	286	283	289	281	283
75+	436	432	438	429	421	416	416	419	429	427	432
Male	214	213	207	202	200	195	193	194	196	191	192
Female	197	197	199	195	197	192	192	189	197	195	197
White	230	232	228	222	221	214	212	210	214	209	210
Black	170	165	167	164	165	164	163	165	171	169	172
Native American	150	170	180	180	166	156	166	169	176	190	219
Asian	140	123	122	122	131	128	132	130	133	126	126
†Hispanic						161	180	169	182	175	172
†Non-Hispanic						241	243	244	249	247	250
All	206	205	203	199	199	194	192	191	196	192	194

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.3.1 &amp; H.3.2).

Table H.3 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Dialysis Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>GLOMERULONEPHRITIS</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	25	23	21	26	27	33	32	32	29	30	29
20-29	38	36	34	35	35	35	39	40	45	46	46
30-39	53	49	49	48	49	52	56	64	67	70	66
40-49	72	71	70	71	71	74	78	80	84	81	84
50-59	103	101	108	117	113	120	117	120	130	136	137
60-64	158	153	160	167	171	171	175	172	188	188	183
65-69	215	218	227	232	226	231	225	222	238	230	230
70-79	291	295	310	304	312	314	311	302	319	317	309
80+	454	475	511	477	472	479	450	423	460	447	444
0-19	25	23	22	26	28	33	32	32	30	31	30
20-44	48	46	46	47	48	49	54	60	64	64	62
45-64	118	115	116	124	123	128	129	128	139	141	140
65-74	220	234	246	246	242	250	248	243	262	256	253
75+	359	345	393	386	399	407	390	373	394	387	385
Male	172	170	181	182	182	186	186	185	196	194	188
Female	144	149	153	152	151	156	151	149	161	162	164
White	160	164	169	169	165	169	170	168	181	186	180
Black	161	155	168	173	174	173	165	166	178	172	174
Native American	215	105	77	83	146	202	192	189	172	150	175
Asian	89	140	159	114	144	169	175	153	155	127	144
†Hispanic											
†Non-Hispanic											
All	159	160	167	167	167	171	169	168	179	179	177
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	31	29	30	23	25	25	28	24	27	25	27
20-29	38	38	39	34	35	34	35	34	35	34	36
30-39	64	59	60	56	55	54	56	52	54	51	52
40-49	84	85	83	81	84	82	80	80	77	80	81
50-59	131	126	128	123	125	119	118	112	122	117	121
60-64	175	178	169	165	162	172	166	163	166	158	164
65-69	216	212	210	207	211	208	205	208	209	209	208
70-79	296	301	283	274	275	279	267	273	276	277	274
80+	429	438	422	417	432	423	420	419	443	433	432
0-19	33	30	30	23	25	26	29	24	27	25	27
20-44	60	57	58	55	56	54	56	53	54	53	53
45-64	136	135	130	126	125	125	121	117	122	117	123
65-74	240	241	233	228	229	231	228	230	229	230	227
75+	369	375	357	349	361	359	342	349	365	361	362
Male	183	182	178	170	171	169	164	160	165	161	162
Female	156	157	149	149	152	152	151	154	158	158	160
White	174	176	172	170	169	170	167	167	170	170	168
Black	166	162	158	150	156	151	147	144	151	144	152
Native American	183	179	129	122	139	136	133	155	169	173	157
Asian	128	133	113	105	109	113	118	109	108	104	116
†Hispanic						70	72	79	80	84	89
†Non-Hispanic						154	150	148	153	151	150
All	171	170	165	161	163	162	158	157	161	159	161

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.3.1 &amp; H.3.2).

Table H.3 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Dialysis Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>OTHER</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	56	52	44	49	48	60	53	51	48	46	43
20-29	79	73	67	62	59	60	60	60	70	73	67
30-39	100	93	93	86	85	87	88	92	91	92	93
40-49	126	122	112	111	106	114	116	116	121	116	114
50-59	166	159	156	159	157	165	164	160	167	169	161
60-64	235	223	218	210	211	218	227	219	224	218	204
65-69	294	291	277	278	272	285	290	272	264	264	253
70-79	367	360	352	356	353	362	369	345	339	331	324
80+	527	533	521	494	505	513	532	483	480	470	434
0-19	57	52	44	49	48	59	52	50	47	45	42
20-44	99	94	89	84	81	83	84	87	89	90	90
45-64	178	171	167	166	165	174	177	173	180	177	166
65-74	311	305	296	300	297	307	311	294	287	281	271
75+	460	459	437	431	428	443	460	418	411	412	398
Male	237	235	228	226	222	232	235	229	228	226	213
Female	207	198	190	188	188	194	198	184	188	184	181
White	225	220	214	212	211	216	219	211	216	213	205
Black	219	211	204	204	200	211	215	205	198	200	192
Native American	253	219	221	198	189	191	192	211	230	198	195
Asian	205	207	195	170	181	206	222	181	170	154	136
†Hispanic											
†Non-Hispanic											
All	223	217	210	208	206	214	218	208	210	207	198
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	44	52	48	47	49	48	51	47	53	49	49
20-29	66	70	63	68	64	69	60	61	60	61	61
30-39	90	96	99	103	103	105	100	98	99	93	92
40-49	109	116	121	119	124	120	116	114	118	114	120
50-59	156	155	157	158	159	157	157	156	158	160	157
60-64	201	204	207	208	202	207	209	207	217	217	218
65-69	245	247	243	248	245	252	251	258	256	264	267
70-79	315	313	311	312	314	325	325	330	341	343	350
80+	433	428	441	422	443	440	451	470	490	490	494
0-19	42	51	47	46	49	47	51	47	53	49	49
20-44	88	94	95	97	100	101	93	93	94	90	91
45-64	161	162	166	165	164	162	163	160	164	164	165
65-74	266	268	264	266	268	274	273	281	286	290	294
75+	385	380	386	381	390	397	403	414	427	429	438
Male	207	208	210	208	210	212	208	208	210	210	212
Female	176	180	183	184	187	190	191	196	205	203	206
White	200	204	205	201	203	202	203	205	209	207	209
Black	186	190	191	198	201	208	203	204	210	214	219
Native American	187	155	195	210	189	200	185	184	189	202	192
Asian	129	117	117	126	122	128	125	130	147	142	142
†Hispanic						121	121	120	144	126	119
†Non-Hispanic						216	214	217	220	223	225
All	193	196	198	198	200	202	200	202	207	207	210

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.3.1 &amp; H.3.2).

Table H.4

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Hemodialysis Patients, by Primary Diagnosis**

*period prevalent patients, 2001 ESRD patients as reference*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	84	71	60	70	69	88	83	83	73	71	62
20-29	110	101	95	95	92	96	96	95	105	107	96
30-39	127	116	119	114	119	122	127	133	132	129	125
40-49	149	145	144	147	142	146	151	150	152	148	143
50-59	181	179	179	192	189	199	196	194	201	197	188
60-64	245	239	243	240	242	254	256	253	255	252	237
65-69	290	299	304	310	304	310	313	299	300	296	286
70-79	349	362	375	368	381	391	384	373	375	372	361
80+	488	529	548	502	521	520	518	489	513	516	479
0-19	78	69	59	67	66	86	84	82	73	73	64
20-44	123	120	120	115	118	120	124	126	131	128	123
45-64	196	190	191	200	198	210	211	208	213	209	199
65-74	306	322	325	327	325	335	335	323	323	319	308
75+	423	432	455	439	465	460	449	434	445	446	430
Male	245	246	253	253	254	262	261	257	262	259	246
Female	215	222	224	221	223	230	228	224	227	224	216
White	250	257	259	261	263	276	273	270	273	268	257
Black	206	208	204	206	197	201	202	196	202	205	196
Native American	225	197	237	179	214	226	240	232	209	202	206
Asian	175	145	226	189	238	224	227	213	220	200	184
†Hispanic											
†Non-Hispanic											
All	231	234	239	237	239	247	246	242	246	243	232

  

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	61	71	66	54	57	53	54	51	56	53	59
20-29	88	87	84	80	77	79	75	73	71	69	72
30-39	118	116	113	107	110	110	109	106	108	101	101
40-49	139	141	136	130	131	129	129	127	130	126	128
50-59	178	178	176	173	173	169	165	162	168	164	165
60-64	228	228	224	220	218	217	211	210	217	211	212
65-69	271	268	264	261	259	259	258	260	262	257	259
70-79	346	348	346	334	332	335	330	333	343	337	339
80+	468	471	471	458	468	471	472	479	502	490	493
0-19	62	74	67	54	58	54	55	51	57	55	61
20-44	117	116	113	109	111	111	109	106	108	103	102
45-64	190	190	186	181	180	176	172	170	176	171	173
65-74	294	294	293	285	283	283	282	284	289	284	285
75+	417	416	415	405	408	413	409	414	429	421	426
Male	232	231	228	221	219	218	213	212	216	211	212
Female	210	213	212	206	208	206	206	206	213	209	211
White	247	249	245	237	235	232	228	228	233	226	226
Black	188	187	187	183	186	186	185	184	192	189	194
Native American	186	184	184	183	178	181	181	184	189	195	198
Asian	161	159	142	148	150	159	159	157	159	151	150
†Hispanic						164	176	186	191	186	187
†Non-Hispanic						239	238	239	248	244	248
All	222	223	220	214	213	212	210	209	215	210	211

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis.

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

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, & counts of total deaths, years at risk, & total patients (Tables H.4.1 & H.4.2).

Table H.4 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Hemodialysis Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>DIABETES</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	171	140	118	141	136	173	166	161	139	131	113
20-29	211	189	178	182	173	181	181	175	192	191	169
30-39	227	204	210	205	216	220	230	231	231	219	209
40-49	247	238	240	249	242	240	252	245	245	236	224
50-59	276	271	265	294	280	298	291	291	295	277	261
60-64	339	331	339	339	337	354	350	345	340	327	307
65-69	362	375	390	410	398	396	406	384	379	372	353
70-79	387	407	446	440	462	477	457	446	442	433	420
80+	478	530	570	543	593	566	562	536	580	582	521
0-19	153	135	113	130	127	168	168	156	137	133	118
20-44	223	217	217	207	218	218	225	222	229	222	208
45-64	290	274	275	300	289	307	305	303	302	288	271
65-74	380	405	416	427	417	426	426	406	398	390	373
75+	437	446	504	496	557	524	496	493	509	499	478
Male	323	321	334	343	346	350	348	341	346	333	314
Female	292	296	303	308	309	321	320	313	310	302	285
White	350	355	359	368	376	392	388	382	377	362	344
Black	253	256	251	259	238	237	242	232	243	245	227
Native American	234	208	287	223	265	246	252	234	236	239	239
Asian	150	68	252	269	328	297	283	285	309	279	251
†Hispanic											
†Non-Hispanic											
All	309	309	319	326	328	336	335	328	329	319	301
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	111	123	114	90	95	85	88	82	92	84	97
20-29	156	148	145	137	128	130	125	121	118	108	116
30-39	197	187	180	163	166	170	168	164	170	156	156
40-49	218	212	201	191	189	184	183	179	186	178	177
50-59	240	241	234	225	221	215	207	206	210	204	207
60-64	290	292	278	268	263	255	244	246	252	244	240
65-69	334	322	317	303	299	299	298	296	299	290	289
70-79	402	407	408	390	379	379	368	371	381	370	371
80+	512	526	520	502	511	529	520	519	553	529	532
0-19	112	130	111	88	93	86	87	81	92	89	99
20-44	196	189	182	171	174	175	172	166	171	161	159
45-64	255	255	245	234	229	223	215	215	221	213	214
65-74	354	351	350	334	326	324	320	319	326	316	316
75+	465	463	463	451	449	459	446	448	467	449	453
Male	292	290	283	270	264	266	256	254	262	251	252
Female	278	277	273	260	258	253	251	251	259	250	251
White	326	325	320	304	298	294	284	283	291	278	277
Black	220	216	213	202	203	201	203	201	211	206	211
Native American	228	225	203	197	196	207	206	203	204	200	200
Asian	214	224	185	192	193	214	210	207	203	193	187
†Hispanic						200	213	232	228	222	224
†Non-Hispanic						280	273	276	290	279	284
All	286	284	278	265	261	260	253	252	260	250	251

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.4.1 &amp; H.4.2).

Table H.4 (continued)

### Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Hemodialysis Patients, by Primary Diagnosis

period prevalent patients, 2001 ESRD patients as reference

<b>HYPERTENSION</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	34	30	27	32	34	44	40	43	39	40	34
20-29	52	49	48	48	51	54	53	55	61	65	56
30-39	69	65	68	65	70	73	74	82	84	83	82
40-49	93	93	94	94	94	98	101	103	107	105	103
50-59	128	129	137	143	152	155	155	151	164	168	162
60-64	194	193	200	197	203	218	225	224	228	238	224
65-69	257	268	276	273	275	282	282	274	287	279	274
70-79	340	357	351	337	356	373	363	366	372	379	363
80+	520	571	588	502	499	518	515	503	523	532	507
0-19	32	29	27	33	34	44	42	46	42	43	37
20-44	65	64	68	67	67	70	73	81	86	85	80
45-64	146	147	154	157	165	174	178	176	183	190	182
65-74	274	298	291	287	295	310	307	306	314	314	304
75+	443	444	460	426	442	453	441	436	452	459	442
Male	203	205	211	206	210	223	225	223	231	233	223
Female	179	192	193	184	191	195	190	193	200	203	197
White	199	210	215	215	221	233	228	231	241	243	233
Black	171	175	169	165	163	166	169	166	172	178	172
Native American	222	213	253	156	191	221	285	266	205	197	208
Asian	219	196	222	127	195	171	181	171	177	169	158
†Hispanic											
†Non-Hispanic											
All	192	199	202	195	201	210	209	209	217	219	210

  

	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	33	41	37	29	34	29	30	28	31	31	35
20-29	52	53	49	43	46	43	43	41	40	42	44
30-39	75	78	73	72	77	70	69	65	66	65	65
40-49	100	107	97	92	92	91	96	96	96	97	97
50-59	158	157	150	154	154	151	143	141	151	145	148
60-64	222	213	217	210	220	208	201	202	209	206	203
65-69	262	264	261	262	262	260	254	255	255	245	253
70-79	349	348	348	334	334	330	331	332	340	335	333
80+	482	480	479	478	467	462	470	476	489	485	488
0-19	37	45	43	34	37	32	34	31	34	33	38
20-44	76	79	78	73	75	68	72	68	67	66	66
45-64	178	174	169	166	170	165	157	157	164	160	160
65-74	290	294	291	286	288	285	282	281	286	278	279
75+	427	424	428	418	411	408	413	417	428	426	428
Male	211	210	203	199	198	193	191	193	194	190	191
Female	193	196	195	192	196	192	192	189	197	194	197
White	227	230	223	218	220	213	211	209	213	209	210
Black	167	163	165	162	163	162	161	163	170	168	170
Native American	143	159	171	171	157	148	158	165	176	190	214
Asian	135	119	119	122	132	128	134	133	137	126	125
†Hispanic						166	184	171	183	177	176
†Non-Hispanic						239	242	244	249	248	250
All	203	203	199	196	197	192	191	191	195	192	193

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis.

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

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, & counts of total deaths, years at risk, & total patients (Tables H.4.1 & H.4.2).



Table H.4 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Hemodialysis Patients, by Primary Diagnosis**

period prevalent patients, 2001 ESRD patients as reference

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	23	21	18	21	22	28	28	32	30	31	28
20-29	36	35	34	34	34	36	38	42	47	49	46
30-39	50	47	48	47	48	51	56	66	68	71	68
40-49	69	69	69	70	69	74	76	80	83	80	84
50-59	98	99	106	113	112	117	114	117	127	131	131
60-64	154	152	158	163	172	171	173	171	185	185	180
65-69	209	217	225	230	226	232	224	220	233	230	229
70-79	284	297	311	305	308	311	305	300	319	319	307
80+	447	487	521	477	473	481	451	423	450	447	442
0-19	22	21	19	21	21	28	28	32	30	32	29
20-44	46	45	45	46	46	48	52	61	65	65	63
45-64	113	113	115	121	124	127	127	127	136	138	137
65-74	215	233	246	242	241	249	245	242	260	258	252
75+	352	357	394	387	391	403	382	367	388	386	382
Male	170	172	181	182	183	185	185	186	196	194	188
Female	136	147	152	147	147	153	147	145	157	160	161
White	155	165	169	167	163	168	167	168	180	183	178
Black	158	154	165	171	174	171	162	162	174	173	174
Native American	198	104	66	66	150	233	209	211	162	144	153
Asian	85	142	178	122	139	160	170	155	155	133	143
†Hispanic											
†Non-Hispanic											
All	154	160	167	165	165	170	167	167	177	178	175
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	28	31	31	24	27	25	26	23	25	25	29
20-29	40	40	42	35	37	34	36	34	35	35	38
30-39	66	60	61	57	58	56	60	53	56	53	54
40-49	87	88	86	82	83	83	81	80	77	82	84
50-59	128	123	128	120	124	117	119	112	124	117	122
60-64	169	173	166	162	160	171	165	161	162	155	162
65-69	212	208	206	201	208	206	206	207	208	208	208
70-79	291	296	284	268	274	275	267	272	274	274	273
80+	426	434	421	416	431	421	415	415	439	430	429
0-19	30	32	31	24	27	26	27	24	25	26	29
20-44	62	59	60	55	57	56	58	54	54	55	55
45-64	134	133	131	125	125	124	122	117	122	118	124
65-74	236	236	233	222	227	227	229	230	229	229	226
75+	364	370	355	346	361	356	339	345	361	357	360
Male	181	180	177	167	170	168	165	160	164	160	162
Female	154	154	150	148	152	151	152	153	157	158	161
White	172	175	172	168	168	169	167	166	169	170	169
Black	164	157	158	148	156	149	147	144	152	143	152
Native American	175	173	123	111	139	139	136	151	165	169	158
Asian	130	138	116	105	109	110	117	106	105	103	116
†Hispanic						74	77	83	82	92	92
†Non-Hispanic						158	156	152	157	155	155
All	168	168	165	158	162	160	159	157	161	159	161

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.4.1 &amp; H.4.2).

Table H.4 (continued)

### Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Hemodialysis Patients, by Primary Diagnosis

period prevalent patients, 2001 ESRD patients as reference

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	52	47	39	42	41	54	47	50	46	47	41
20-29	75	72	66	61	58	61	59	61	68	72	67
30-39	95	89	90	83	84	86	86	91	89	90	92
40-49	121	119	111	108	102	113	112	112	116	113	111
50-59	158	155	153	156	154	163	160	156	162	167	158
60-64	226	217	214	205	205	216	223	217	219	214	199
65-69	283	283	275	275	269	283	286	267	257	262	252
70-79	354	354	351	349	352	361	365	340	332	328	322
80+	513	531	519	480	495	501	521	477	471	469	429
0-19	53	47	38	42	42	54	47	50	45	46	40
20-44	95	91	87	82	79	82	82	85	87	88	88
45-64	170	167	164	163	162	173	174	170	176	175	163
65-74	300	299	294	296	293	305	308	289	279	278	269
75+	443	449	435	423	427	439	451	410	403	410	394
Male	231	231	226	223	220	232	232	227	223	225	211
Female	196	193	188	182	185	189	193	179	182	180	177
White	216	215	210	207	207	214	215	207	211	210	203
Black	211	208	203	200	196	207	210	199	193	197	189
Native American	240	213	227	201	198	202	189	209	203	187	181
Asian	201	205	202	171	188	209	229	186	164	150	128
†Hispanic											
†Non-Hispanic											
All	214	213	208	203	203	212	214	205	204	204	196
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	40	54	53	48	50	49	50	47	51	48	51
20-29	65	71	64	68	65	73	64	64	60	63	63
30-39	89	95	98	102	106	109	104	102	102	95	95
40-49	107	115	120	118	124	122	121	117	122	116	122
50-59	149	151	155	158	160	159	158	157	159	160	158
60-64	196	198	201	207	201	210	210	206	217	215	218
65-69	239	243	238	250	244	248	252	258	259	262	265
70-79	309	310	309	309	313	324	326	330	342	342	350
80+	427	421	433	418	440	440	452	473	493	489	491
0-19	39	53	53	48	50	49	49	47	51	48	51
20-44	86	93	94	97	102	104	98	96	97	92	93
45-64	157	159	164	165	164	165	165	162	166	165	166
65-74	261	263	261	266	267	272	274	281	288	290	295
75+	379	376	381	376	387	396	405	416	430	428	435
Male	203	203	206	207	208	211	209	208	211	210	212
Female	172	179	181	184	189	193	196	198	207	204	208
White	197	201	203	200	202	202	205	207	211	207	209
Black	180	185	186	195	201	209	205	205	211	214	220
Native American	179	155	201	215	199	203	192	191	190	204	196
Asian	122	112	115	129	127	135	129	130	146	141	140
†Hispanic						134	127	123	149	130	123
†Non-Hispanic						225	224	224	227	228	232
All	189	193	195	197	199	202	202	204	209	207	210

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis.

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

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients, & counts of total deaths, years at risk, & total patients (Tables H.4.1 & H.4.2).

Table H.5

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: CAPD/CCPD Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>ALL</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	~	~	~	~	97	115	90	79	70	58	57
20-29	~	~	~	~	89	81	91	71	87	79	75
30-39	~	~	~	~	114	125	124	118	126	113	104
40-49	~	~	~	~	158	156	171	163	170	146	139
50-59	~	~	~	~	201	228	227	229	242	227	210
60-64	~	~	~	~	315	307	300	295	310	283	271
65-69	~	~	~	~	363	373	356	371	375	329	323
70-79	~	~	~	~	468	471	463	464	470	438	414
80+	~	~	~	~	715	782	683	649	678	632	585
0-19	~	~	~	~	108	118	92	82	73	61	61
20-44	~	~	~	~	123	125	124	117	125	113	108
45-64	~	~	~	~	223	235	242	239	253	229	212
65-74	~	~	~	~	389	398	383	399	401	356	348
75+	~	~	~	~	553	613	581	568	593	573	515
Male	~	~	~	~	283	286	283	282	297	274	258
Female	~	~	~	~	296	318	294	295	302	278	262
White	~	~	~	~	301	317	312	312	330	306	286
Black	~	~	~	~	272	273	261	266	252	232	220
Native American	~	~	~	~	384	262	250	303	367	335	369
Asian	~	~	~	~	290	409	309	251	285	234	257
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	290	303	291	290	301	277	262
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	61	61	51	50	57	60	75	59	70	64	57
20-29	71	65	61	67	71	73	68	62	69	61	60
30-39	97	103	105	104	103	101	98	93	90	89	83
40-49	129	135	137	137	138	137	131	126	122	117	118
50-59	205	196	195	192	192	190	187	185	183	178	172
60-64	264	265	272	258	250	255	254	253	251	249	235
65-69	328	315	316	302	313	326	308	308	297	301	296
70-79	419	397	396	403	394	418	396	406	403	397	381
80+	569	545	570	565	576	600	609	612	611	579	562
0-19	66	64	55	56	61	65	79	61	72	69	59
20-44	100	104	105	105	106	106	101	96	94	91	89
45-64	206	203	205	199	196	196	193	191	188	183	176
65-74	349	340	336	331	338	355	338	340	330	330	318
75+	510	464	499	506	500	524	497	505	512	499	484
Male	254	252	254	248	250	255	247	243	239	234	225
Female	255	241	248	249	249	255	248	249	247	242	237
White	277	273	279	275	273	274	266	264	261	255	246
Black	233	220	224	223	226	239	229	230	226	219	212
Native American	278	250	219	258	235	240	217	216	216	210	251
Asian	179	171	156	149	145	170	165	159	161	165	163
†Hispanic						131	153	162	150	146	159
†Non-Hispanic						238	231	229	228	224	216
All	257	249	252	249	250	256	248	247	243	238	231

~Data for 1980-1983 are not stable, &amp; are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients &amp; counts of total deaths (tables H.5.1 &amp; H.5.2).

Table H.5 (continued)

### Adjusted Annual Death Rates per 1,000 Patient Years at Risk: CAPD/CCPD Patients, by Primary Diagnosis

period prevalent patients, 2001 ESRD patients as reference

DIABETES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	~	~	~	~	181	202	161	145	124	97	94
20-29	~	~	~	~	157	137	156	125	147	127	121
30-39	~	~	~	~	191	202	201	199	204	174	160
40-49	~	~	~	~	257	248	274	267	263	217	207
50-59	~	~	~	~	312	340	341	351	356	325	301
60-64	~	~	~	~	463	429	428	429	433	388	373
65-69	~	~	~	~	497	508	475	514	496	432	426
70-79	~	~	~	~	608	599	576	593	587	550	520
80+	~	~	~	~	873	949	814	792	796	758	699
0-19	~	~	~	~	204	203	167	153	130	106	105
20-44	~	~	~	~	202	201	204	198	206	178	170
45-64	~	~	~	~	342	342	360	362	365	326	301
65-74	~	~	~	~	520	532	502	544	526	465	463
75+	~	~	~	~	619	764	671	662	693	686	594
Male	~	~	~	~	386	371	369	379	385	348	326
Female	~	~	~	~	417	451	429	429	424	382	364
White	~	~	~	~	431	434	440	453	470	420	388
Black	~	~	~	~	341	344	320	313	275	259	257
Native American	~	~	~	~	489	358	363	373	403	410	346
Asian	~	~	~	~	401	552	402	372	397	307	344
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	401	409	399	403	404	364	344

  

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	96	100	80	82	91	100	127	99	117	107	94
20-29	104	100	92	104	111	117	111	100	110	98	95
30-39	142	154	154	155	157	154	152	146	137	136	127
40-49	196	206	199	207	204	208	201	193	185	174	173
50-59	279	272	278	281	272	274	269	270	265	252	243
60-64	350	349	358	348	343	345	339	338	336	332	315
65-69	425	404	400	394	414	423	398	400	389	390	382
70-79	542	490	511	512	500	523	491	503	497	489	465
80+	673	615	695	696	702	707	709	736	743	675	650
0-19	106	106	89	96	102	112	138	104	122	116	100
20-44	151	159	158	165	167	171	162	151	144	142	139
45-64	282	281	286	284	276	279	275	275	271	260	250
65-74	460	437	437	431	445	458	432	435	421	422	404
75+	625	525	610	600	609	634	592	605	617	590	567
Male	318	310	322	322	319	324	312	312	307	299	283
Female	348	330	336	338	339	345	337	338	333	319	312
White	378	365	375	375	368	373	358	357	349	339	326
Black	263	243	252	256	268	273	267	274	274	260	250
Native American	307	246	267	290	296	300	282	263	280	253	269
Asian	212	245	237	204	195	227	243	236	228	215	208
†Hispanic						214	249	265	224	224	243
†Non-Hispanic						331	322	324	323	315	303
All	334	320	329	330	329	334	323	324	319	308	297

~Data for 1980-1983 are not stable, & are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis.

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

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients & counts of total deaths (tables H.5.1 & H.5.2).

Table H.5 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: CAPD/CCPD Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>HYPERTENSION</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	~	~	~	~	50	76	58	40	38	32	31
20-29	~	~	~	~	51	57	63	39	51	47	44
30-39	~	~	~	~	72	94	90	71	80	73	66
40-49	~	~	~	~	105	121	125	103	118	102	97
50-59	~	~	~	~	146	201	188	171	181	173	160
60-64	~	~	~	~	255	282	243	230	251	234	224
65-69	~	~	~	~	332	341	311	306	327	295	289
70-79	~	~	~	~	433	459	402	412	440	424	399
80+	~	~	~	~	747	810	623	623	679	660	609
0-19	~	~	~	~	63	92	66	43	41	31	34
20-44	~	~	~	~	90	100	96	68	82	69	69
45-64	~	~	~	~	171	225	201	191	205	191	175
65-74	~	~	~	~	355	370	333	332	355	339	319
75+	~	~	~	~	592	595	519	538	583	566	524
Male	~	~	~	~	227	268	251	229	254	239	228
Female	~	~	~	~	257	278	230	231	245	233	214
White	~	~	~	~	244	292	263	246	265	255	244
Black	~	~	~	~	223	219	196	201	216	199	172
Native American	~	~	~	~	480	304	162	301	317	255	371
Asian	~	~	~	~	273	378	308	195	235	222	199
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	241	273	242	231	250	236	222

  

	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	38	36	30	26	31	31	41	32	39	38	32
20-29	47	42	39	38	42	41	40	37	42	39	37
30-39	64	68	72	64	67	62	64	59	59	60	55
40-49	87	93	101	93	98	91	91	87	84	85	86
50-59	168	159	153	148	147	143	144	142	147	140	135
60-64	227	220	241	229	208	211	218	221	221	212	202
65-69	300	288	292	280	281	291	286	275	271	266	269
70-79	369	370	383	392	381	390	376	374	381	372	375
80+	599	564	578	585	601	622	620	599	584	558	582
0-19	43	40	36	31	34	35	43	37	43	45	36
20-44	66	70	75	68	66	61	62	66	64	65	61
45-64	176	169	177	167	162	159	161	157	159	154	147
65-74	312	312	317	310	319	321	320	307	311	307	309
75+	484	461	495	518	495	508	482	488	489	462	482
Male	220	222	218	210	212	212	214	209	208	196	196
Female	214	202	220	219	216	216	211	205	209	210	209
White	236	235	246	239	232	228	227	221	225	215	210
Black	188	172	179	176	185	195	195	194	191	188	191
Native American	200	278	230	267	267	225	214	212	173	184	295
Asian	163	139	119	129	121	144	115	100	97	126	133
†Hispanic						118	127	124	150	154	126
†Non-Hispanic						248	249	237	236	230	235
All	218	213	219	215	214	215	213	208	208	203	202

~Data for 1980-1983 are not stable, &amp; are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients &amp; counts of total deaths (tables H.5.1 &amp; H.5.2).

Table H.5 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: CAPD/CCPD Patients, by Primary Diagnosis**

period prevalent patients, 2001 ESRD patients as reference

GLOMERULONEPHRITIS	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	~	~	~	~	36	41	32	32	30	31	29
20-29	~	~	~	~	36	32	37	32	41	44	41
30-39	~	~	~	~	51	56	56	59	65	66	61
40-49	~	~	~	~	75	74	83	86	96	90	87
50-59	~	~	~	~	107	125	126	135	148	148	141
60-64	~	~	~	~	180	186	185	189	207	193	195
65-69	~	~	~	~	233	245	239	252	271	235	247
70-79	~	~	~	~	336	350	358	348	368	327	337
80+	~	~	~	~	537	629	559	519	572	493	506
0-19	~	~	~	~	37	45	33	33	30	33	29
20-44	~	~	~	~	54	55	56	56	62	63	60
45-64	~	~	~	~	113	130	136	144	159	150	143
65-74	~	~	~	~	263	264	270	268	286	242	258
75+	~	~	~	~	483	502	497	480	509	418	451
Male	~	~	~	~	183	199	192	191	205	196	192
Female	~	~	~	~	168	181	185	186	205	181	185
White	~	~	~	~	166	176	179	172	193	195	186
Black	~	~	~	~	192	208	208	233	237	188	184
Native American	~	~	~	~	174	104	154	117	242	239	485
Asian	~	~	~	~	214	322	220	147	144	86	177
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	176	191	189	189	206	189	189

  

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	31	29	26	24	28	29	35	28	33	28	26
20-29	38	34	33	34	37	37	34	33	36	30	29
30-39	57	58	60	57	57	54	52	51	50	46	44
40-49	73	78	79	80	81	80	75	75	73	66	67
50-59	136	131	122	128	119	122	113	112	113	110	104
60-64	193	200	185	177	164	173	166	168	170	165	154
65-69	242	245	225	227	217	229	211	215	214	215	203
70-79	319	335	283	301	286	315	283	290	297	302	279
80+	477	504	437	433	440	483	471	471	484	478	444
0-19	33	29	28	25	28	29	36	28	33	28	25
20-44	55	56	57	55	55	51	51	51	51	45	44
45-64	135	136	126	128	124	130	115	115	114	110	107
65-74	256	265	232	252	235	262	232	236	234	237	216
75+	402	422	369	378	359	403	386	388	406	410	374
Male	190	195	185	182	175	179	167	165	169	164	156
Female	165	171	145	154	153	169	158	164	163	162	151
White	172	174	165	170	168	176	171	172	176	169	161
Black	192	212	181	177	165	178	153	155	151	156	140
Native American	350	288	136	173	129	132	119	157	185	216	200
Asian	115	78	79	98	105	131	125	109	116	110	109
†Hispanic						56	53	55	58	43	71
†Non-Hispanic						137	128	131	134	121	112
All	179	184	166	169	165	175	163	164	166	163	154

~Data for 1980-1983 are not stable, &amp; are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients &amp; counts of total deaths (tables H.5.1 &amp; H.5.2).

Table H.5 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: CAPD/CCPD Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>OTHER</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	~	~	~	~	68	77	59	58	56	51	51
20-29	~	~	~	~	66	58	66	55	71	70	67
30-39	~	~	~	~	89	94	95	96	104	100	92
40-49	~	~	~	~	128	119	133	134	144	129	123
50-59	~	~	~	~	162	173	180	186	208	200	184
60-64	~	~	~	~	258	248	256	251	271	248	236
65-69	~	~	~	~	305	309	320	325	332	287	278
70-79	~	~	~	~	396	397	435	424	421	380	351
80+	~	~	~	~	607	658	664	588	611	544	489
0-19	~	~	~	~	66	74	57	58	56	49	50
20-44	~	~	~	~	93	91	90	98	103	105	97
45-64	~	~	~	~	179	178	194	190	213	191	179
65-74	~	~	~	~	333	332	349	351	357	303	290
75+	~	~	~	~	495	528	589	548	534	508	458
Male	~	~	~	~	245	236	264	260	272	249	229
Female	~	~	~	~	218	239	234	228	240	218	206
White	~	~	~	~	230	232	243	232	250	228	210
Black	~	~	~	~	261	258	275	280	267	247	231
Native American	~	~	~	~	125	160	222	270	425	347	330
Asian	~	~	~	~	135	221	204	169	232	195	215
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	233	238	251	245	258	235	219

  

	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	58	57	49	50	53	56	62	49	58	55	49
20-29	72	64	61	69	66	68	57	55	59	53	52
30-39	95	102	104	108	96	97	87	84	82	79	73
40-49	119	119	129	126	127	124	111	106	104	104	104
50-59	192	177	177	162	174	167	164	159	155	159	152
60-64	231	240	250	223	223	231	231	230	223	227	210
65-69	286	278	290	258	276	298	279	278	256	275	263
70-79	362	348	345	349	341	380	363	382	367	364	339
80+	482	488	501	478	489	532	561	555	545	538	505
0-19	56	56	47	49	55	57	62	48	58	55	49
20-44	97	97	100	100	100	101	88	82	82	78	77
45-64	183	179	181	167	166	164	161	160	155	158	149
65-74	300	298	297	280	285	316	306	312	291	296	277
75+	458	428	456	468	455	484	454	470	460	472	442
Male	233	238	235	221	230	241	232	224	214	218	205
Female	209	194	205	200	196	205	201	210	206	205	196
White	212	215	217	205	213	212	212	212	205	209	199
Black	246	235	250	239	234	262	243	242	230	227	210
Native American	283	186	156	220	141	212	158	166	172	165	166
Asian	171	131	104	105	108	119	115	134	153	159	149
†Hispanic						70	86	97	94	78	93
†Non-Hispanic						191	177	173	170	179	161
All	223	219	222	212	215	225	217	217	210	212	201

~Data for 1980-1983 are not stable, &amp; are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

Includes all patients who have reached day 91 of ESRD by December 31 of each calendar year. Patient age is determined on January 1 of each calendar year.

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

On our website: deaths per 1,000 patients &amp; counts of total deaths (tables H.5.1 &amp; H.5.2).

Table H.6

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Transplant Patients, by Primary Diagnosis**

*period prevalent patients, 2001 ESRD patients as reference*

ALL	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	~	~	~	~	34.9	25.4	30.6	28.6	29.9	24.6	19.1
20-29	~	~	~	~	27.1	22.8	21.8	20.1	18.3	18.3	18.1
30-39	~	~	~	~	45.5	33.5	35.0	27.7	27.7	25.2	23.9
40-49	~	~	~	~	58.8	46.5	47.9	40.5	39.7	39.1	40.7
50-59	~	~	~	~	71.6	66.9	64.0	61.8	58.1	58.8	56.1
60-64	~	~	~	~	109.2	84.4	84.0	69.9	70.1	62.7	65.3
65+	~	~	~	~	90.1	70.0	89.7	73.6	77.6	78.2	90.6
0-19	~	~	~	~	45.0	30.0	31.5	28.0	32.6	25.6	20.0
20-44	~	~	~	~	43.4	33.0	33.7	27.7	27.5	26.0	25.7
45-64	~	~	~	~	69.4	61.3	61.3	57.6	54.8	55.1	54.9
65+	~	~	~	~	87.4	68.9	89.8	76.1	76.6	77.3	92.1
Male	~	~	~	~	79.1	66.0	78.3	63.3	64.3	65.0	66.3
Female	~	~	~	~	64.2	50.4	50.2	46.1	46.5	45.4	51.1
White	~	~	~	~	77.4	62.4	66.6	53.9	56.8	55.8	58.2
Black	~	~	~	~	68.5	58.6	68.2	62.4	58.5	58.8	63.2
Other	~	~	~	~	39.0	25.6	30.0	37.7	41.2	37.8	53.2
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	72.6	58.5	64.9	55.0	55.9	55.6	59.2

  

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	18.9	14.6	14.1	14.3	15.4	14.2	12.2	12.4	13.3	13.6	11.8
20-29	17.5	16.4	16.2	15.2	13.4	12.7	11.7	11.4	12.5	11.2	12.9
30-39	21.8	20.5	20.2	20.1	19.5	17.3	16.8	16.6	17.9	17.7	18.6
40-49	39.8	35.6	32.6	35.1	34.3	33.6	30.4	30.0	28.7	27.6	27.5
50-59	57.1	47.8	51.5	52.4	52.6	53.4	50.8	50.2	49.4	47.5	45.6
60-64	66.5	69.4	71.1	72.6	73.8	72.3	73.3	67.3	66.8	65.7	67.9
65+	77.7	85.9	90.3	94.9	106.1	102.4	94.7	99.9	100.1	102.5	100.5
0-19	17.3	14.7	13.4	14.4	16.0	15.6	13.8	13.4	13.6	14.1	12.5
20-44	24.7	22.8	21.3	22.0	21.0	20.5	19.3	19.4	19.6	19.3	19.8
45-64	54.9	49.5	50.9	52.3	52.2	51.3	49.1	47.7	47.3	45.8	45.5
65+	83.3	86.7	92.5	95.0	106.5	102.1	93.9	100.3	100.3	103.0	100.7
Male	62.3	59.8	65.6	66.7	73.0	66.6	61.9	63.3	63.8	63.6	63.2
Female	46.4	51.1	49.8	53.8	54.7	56.8	55.4	55.7	55.0	55.1	54.3
White	53.5	55.1	57.7	61.6	64.3	62.2	59.4	59.0	59.7	58.7	58.1
Black	59.7	61.2	63.4	62.3	66.0	64.7	59.5	62.7	61.8	63.1	63.0
Other	47.6	36.4	38.2	44.3	50.9	48.7	53.8	52.7	49.6	47.0	45.8
†Hispanic						24.2	24.4	23.6	23.5	25.7	24.3
†Non-Hispanic						35.0	34.0	34.3	35.1	34.9	35.8
All	54.8	55.8	58.1	60.7	63.9	62.0	58.9	59.8	59.7	59.7	59.1

~Data for 1980-1983 are not stable, & are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis.

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

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

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

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

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

On our website: deaths per 1,000 patients, & counts of total deaths, years at risk, & total patients (Tables H.6.1 & H.6.2).



Table H.6 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Transplant Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>DIABETES</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	~	~	~	~	66.3	48.1	58.5	54.3	55.9	46.2	37.2
20-29	~	~	~	~	47.4	39.0	38.5	35.2	31.7	32.2	32.3
30-39	~	~	~	~	75.2	54.9	54.0	43.6	43.7	40.7	38.9
40-49	~	~	~	~	88.3	67.1	72.5	55.0	56.9	57.1	60.4
50-59	~	~	~	~	105.0	92.6	85.9	76.3	77.3	78.6	72.9
60-64	~	~	~	~	145.9	98.3	88.5	70.8	79.9	74.4	75.2
65+	~	~	~	~	88.4	68.3	84.1	66.0	75.2	82.9	89.9
0-19	~	~	~	~	88.6	59.5	60.0	51.5	63.2	45.4	37.6
20-44	~	~	~	~	72.4	54.4	54.7	43.1	44.3	41.5	40.8
45-64	~	~	~	~	100.5	81.5	81.8	72.2	71.2	74.0	73.9
65+	~	~	~	~	83.0	64.6	88.5	74.8	70.7	87.5	95.1
Male	~	~	~	~	89.8	81.2	90.9	72.2	77.6	80.7	78.0
Female	~	~	~	~	99.7	64.3	61.0	51.8	55.1	55.7	62.0
White	~	~	~	~	98.5	77.8	82.9	67.7	72.9	74.2	71.8
Black	~	~	~	~	89.5	70.4	69.7	56.4	59.0	60.8	66.7
Other	~	~	~	~	60.2	38.0	50.7	42.8	52.2	55.3	75.4
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	93.9	73.2	77.0	62.7	67.3	69.2	70.6
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	38.5	28.6	25.3	24.3	25.0	23.8	21.0	21.8	24.4	24.7	20.7
20-29	32.2	29.7	27.3	25.0	21.1	20.2	19.1	19.0	21.8	19.4	21.7
30-39	36.8	34.9	32.1	31.6	29.9	27.0	26.0	27.1	29.2	28.9	29.5
40-49	62.3	55.2	48.9	51.3	49.9	48.1	44.6	46.5	45.0	43.1	42.5
50-59	77.8	67.4	71.9	72.0	72.5	72.5	70.0	72.2	70.7	69.1	66.6
60-64	73.4	87.4	90.3	97.2	99.8	95.2	95.7	91.5	88.3	87.9	92.3
65+	75.7	98.1	107.0	118.8	137.9	124.2	111.8	126.1	122.4	128.2	126.3
0-19	32.3	28.2	23.2	24.7	26.7	27.2	24.9	24.2	24.8	25.3	22.0
20-44	40.2	38.2	33.3	34.5	32.7	32.2	30.8	31.8	32.0	31.4	31.5
45-64	75.8	69.4	70.5	71.7	71.9	68.9	66.7	68.5	67.8	66.2	66.2
65+	94.3	100.3	112.1	117.2	136.5	121.3	108.2	125.3	123.2	129.5	127.0
Male	73.2	75.0	82.7	84.5	97.3	83.8	74.3	80.1	78.9	81.2	79.9
Female	59.2	68.1	64.6	74.1	72.8	75.9	75.0	79.0	77.4	76.5	76.2
White	67.2	72.9	77.6	85.1	91.9	85.1	79.7	80.5	81.7	79.1	76.8
Black	66.6	74.0	72.5	71.7	74.6	71.6	64.3	79.6	71.9	79.5	81.7
Other	60.0	45.3	44.7	55.7	70.7	68.5	74.3	67.0	66.7	67.1	67.9
†Hispanic						42.6	42.6	50.9	47.6	53.8	50.7
†Non-Hispanic						52.6	53.9	57.6	55.9	55.3	57.8
All	66.8	71.8	74.4	79.5	85.4	80.0	74.4	79.4	78.0	79.0	78.1

~Data for 1980-1983 are not stable, &amp; are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

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

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

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.6.1 &amp; H.6.2).

Table H.6 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Transplant Patients, by Primary Diagnosis**

period prevalent patients, 2001 ESRD patients as reference

<b>HYPERTENSION</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	~	~	~	~	14.9	13.4	14.8	14.3	16.6	11.2	8.8
20-29	~	~	~	~	11.2	13.2	12.9	11.7	11.2	9.5	9.7
30-39	~	~	~	~	30.1	21.9	25.8	18.5	19.7	15.3	15.2
40-49	~	~	~	~	44.0	39.6	38.5	34.5	31.2	28.1	29.5
50-59	~	~	~	~	44.4	50.9	55.7	57.2	48.5	48.5	45.9
60-64	~	~	~	~	98.9	71.4	84.9	69.7	59.8	58.3	60.1
65+	~	~	~	~	75.6	61.2	99.4	77.7	72.9	75.9	90.2
0-19	~	~	~	~	24.0	16.9	15.2	16.4	17.5	15.6	11.2
20-44	~	~	~	~	29.3	23.1	24.3	20.3	19.3	16.9	17.8
45-64	~	~	~	~	45.3	49.7	54.4	52.0	46.4	45.9	44.9
65+	~	~	~	~	60.0	58.3	100.9	75.9	74.4	60.4	82.8
Male	~	~	~	~	66.2	51.9	78.5	62.0	54.4	53.4	59.0
Female	~	~	~	~	46.5	46.2	48.1	45.2	44.0	44.4	47.8
White	~	~	~	~	62.2	55.2	65.4	49.9	49.3	46.4	51.7
Black	~	~	~	~	49.1	42.3	70.1	64.0	51.2	56.7	56.9
Other	~	~	~	~	30.9	18.2	7.2	43.9	39.4	32.0	55.2
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	56.8	49.0	63.7	53.7	49.4	48.8	53.6
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	7.4	7.5	8.2	9.5	11.5	9.8	6.5	7.2	6.1	7.6	7.2
20-29	8.4	9.7	10.7	11.1	10.4	9.2	7.0	7.3	6.7	7.0	8.6
30-39	13.1	13.5	14.1	14.8	14.9	12.4	10.8	10.7	10.8	12.0	13.4
40-49	29.1	26.4	24.9	28.5	28.3	27.3	22.8	22.0	19.3	20.2	20.7
50-59	50.3	39.1	42.2	45.2	43.8	45.3	42.1	41.8	38.8	38.3	37.9
60-64	71.9	63.9	66.2	65.9	64.2	61.3	65.9	59.0	59.7	58.1	59.4
65+	83.2	83.6	89.7	88.9	92.2	88.0	92.4	89.0	96.8	94.1	92.9
0-19	10.3	8.7	8.8	9.7	12.0	11.1	7.8	8.6	7.1	9.2	8.4
20-44	17.9	16.1	16.1	16.7	16.6	15.5	13.1	13.8	12.8	14.3	15.1
45-64	47.2	41.4	43.2	46.2	45.0	44.6	42.5	40.3	38.1	38.2	38.5
65+	82.1	81.1	89.2	90.8	93.1	87.6	92.3	89.1	96.9	93.4	93.1
Male	62.4	53.3	56.8	60.2	60.8	57.9	57.4	57.4	58.9	57.4	57.3
Female	42.1	45.6	47.7	45.8	45.7	45.3	46.4	41.9	43.6	43.5	43.6
White	50.1	48.6	50.6	51.8	48.3	48.8	49.6	47.3	48.3	48.3	49.7
Black	59.2	55.5	58.3	58.8	65.9	61.5	59.0	54.5	58.6	56.3	55.3
Other	48.5	27.2	36.4	38.4	42.9	33.1	40.4	52.5	45.3	43.0	33.7
†Hispanic						30.7	25.3	28.6	23.2	28.3	25.3
†Non-Hispanic						40.7	41.1	40.1	41.7	42.5	43.6
All	52.5	49.7	52.5	53.6	53.7	52.0	52.1	50.0	51.4	50.7	50.7

~Data for 1980-1983 are not stable, &amp; are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

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

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

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.6.1 &amp; H.6.2).

Table H.6 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Transplant Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

<b>GLOMERULONEPHRITIS</b>	<b>1980</b>	<b>1981</b>	<b>1982</b>	<b>1983</b>	<b>1984</b>	<b>1985</b>	<b>1986</b>	<b>1987</b>	<b>1988</b>	<b>1989</b>	<b>1990</b>
0-19	~	~	~	~	9	8	11	12	13	11	7
20-29	~	~	~	~	8.8	8.8	9.7	9.8	9.1	9.2	8.2
30-39	~	~	~	~	14.7	14.2	16.9	15.3	14.9	13.7	12.5
40-49	~	~	~	~	30.9	24.6	30.1	27.2	25.1	23.9	25.5
50-59	~	~	~	~	44.8	47.3	45.6	47.4	40.5	41.9	41.8
60-64	~	~	~	~	66.0	63.7	65.2	59.1	60.9	48.7	57.1
65+	~	~	~	~	75.3	66.0	89.7	71.8	71.5	65.9	92.9
0-19	~	~	~	~	9.3	7.1	11.3	11.1	13.2	12.0	9.0
20-44	~	~	~	~	14.9	13.5	16.9	15.0	14.3	13.1	13.0
45-64	~	~	~	~	41.1	40.9	39.8	42.3	39.0	38.7	39.9
65+	~	~	~	~	76.7	69.8	83.6	72.5	69.0	66.1	98.2
Male	~	~	~	~	67.6	55.2	66.7	55.2	54.3	51.1	61.7
Female	~	~	~	~	28.2	34.1	40.1	38.2	35.7	32.6	41.4
White	~	~	~	~	53.4	44.4	47.4	40.0	42.8	41.9	49.3
Black	~	~	~	~	44.3	50.8	69.3	62.7	51.9	45.2	62.5
Other	~	~	~	~	18.7	18.2	33.3	36.3	35.4	26.6	22.8
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	49.4	45.1	53.5	46.9	45.4	42.3	52.0
	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>
0-19	7.7	5.2	6.4	6.2	6.7	5.9	6.6	5.6	5.9	5.7	5.3
20-29	8.3	7.1	8.1	7.1	6.4	5.9	6.8	5.7	6.2	5.4	6.6
30-39	11.1	10.0	10.8	10.3	9.9	9.1	10.7	9.2	9.6	9.6	10.1
40-49	22.2	20.0	19.7	20.0	20.1	21.2	20.3	18.2	16.5	16.5	16.6
50-59	39.0	31.0	34.0	33.7	34.9	37.7	37.1	32.8	31.1	31.5	28.6
60-64	50.9	53.2	51.3	49.2	51.5	56.6	58.2	51.9	46.4	50.3	49.7
65+	68.7	75.7	70.2	70.8	79.0	92.3	80.5	85.6	75.2	84.3	78.7
0-19	6.1	4.8	5.9	6.0	6.9	6.1	7.1	5.5	5.7	5.6	5.5
20-44	12.2	10.6	11.3	11.1	10.9	10.6	11.8	10.3	10.1	10.0	10.7
45-64	36.6	32.3	33.4	32.7	33.2	35.9	35.1	31.5	29.6	30.2	28.6
65+	72.9	78.2	71.9	69.9	78.4	92.8	79.1	86.0	74.4	84.3	77.1
Male	49.2	46.5	46.9	45.3	49.8	53.7	51.7	51.0	47.2	48.3	46.6
Female	34.5	37.8	34.4	36.2	38.0	45.7	39.7	39.5	34.1	40.2	37.0
White	39.6	39.8	38.0	40.6	44.7	49.4	44.1	45.5	42.3	44.8	43.8
Black	50.2	50.4	49.9	44.6	46.5	52.8	50.3	47.1	39.3	45.3	40.1
Other	23.0	24.4	22.8	23.2	25.1	36.9	40.6	34.1	32.2	31.4	29.8
†Hispanic						14.1	16.6	14.8	13.0	15.0	17.2
†Non-Hispanic						27.4	26.1	23.9	23.7	26.6	25.4
All	42.1	42.4	41.0	41.1	44.1	49.9	45.9	45.4	40.9	44.4	42.1

~Data for 1980-1983 are not stable, &amp; are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

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

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

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.6.1 &amp; H.6.2).

Table H.6 (continued)

**Adjusted Annual Death Rates per 1,000 Patient Years at Risk: Transplant Patients, by Primary Diagnosis***period prevalent patients, 2001 ESRD patients as reference*

OTHER	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
0-19	~	~	~	~	23.4	17.4	19.0	17.9	18.6	16.9	12.2
20-29	~	~	~	~	23.4	18.5	14.2	13.7	13.0	13.9	13.3
30-39	~	~	~	~	36.2	28.8	30.1	23.6	22.3	21.2	19.3
40-49	~	~	~	~	48.7	42.0	36.8	37.1	36.3	35.6	35.0
50-59	~	~	~	~	65.6	63.1	56.0	58.4	55.6	53.8	52.8
60-64	~	~	~	~	102.2	94.7	86.9	75.6	73.5	60.3	63.2
65+	~	~	~	~	111.6	84.6	87.0	80.7	90.9	82.0	92.6
0-19	~	~	~	~	21.7	17.2	19.7	18.3	18.6	16.7	11.9
20-44	~	~	~	~	32.4	26.6	25.1	22.4	21.5	21.4	21.0
45-64	~	~	~	~	65.9	61.7	55.2	55.4	53.7	50.5	49.3
65+	~	~	~	~	120.5	86.1	85.0	82.1	93.4	86.7	97.4
Male	~	~	~	~	91.1	74.2	72.4	64.7	69.6	66.3	66.2
Female	~	~	~	~	59.5	51.5	48.2	49.2	48.3	41.3	48.1
White	~	~	~	~	77.9	63.0	59.4	50.7	53.4	49.0	52.9
Black	~	~	~	~	77.9	69.9	68.9	74.9	75.4	69.4	70.6
Other	~	~	~	~	31.0	24.6	27.3	30.8	35.3	27.2	36.7
†Hispanic											
†Non-Hispanic											
All	~	~	~	~	76.2	63.4	60.7	57.0	59.4	54.3	57.5
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
0-19	10.8	8.6	9.6	10.1	11.3	10.2	8.7	8.2	9.2	8.4	7.6
20-29	12.3	10.7	11.6	11.0	10.0	9.7	8.9	8.2	9.2	7.3	8.8
30-39	16.5	14.4	15.9	15.7	15.5	13.8	13.6	12.3	14.1	12.5	13.7
40-49	31.9	28.0	26.9	29.9	28.4	27.7	24.1	22.0	22.4	20.0	20.0
50-59	47.5	40.2	44.4	44.2	44.7	44.9	41.3	38.7	40.8	36.1	34.2
60-64	61.9	61.8	64.4	62.7	62.0	61.7	58.7	51.3	56.7	51.9	54.8
65+	79.1	79.5	84.9	85.1	92.9	92.1	81.1	82.5	86.5	85.6	84.9
0-19	11.0	8.6	9.5	10.0	10.7	9.8	8.3	7.9	9.1	8.1	7.4
20-44	18.4	15.9	16.6	16.8	15.8	15.3	14.0	13.4	14.6	12.8	13.5
45-64	46.5	41.5	44.0	44.8	44.6	43.6	40.1	36.1	38.6	34.7	34.5
65+	77.5	80.1	85.5	86.4	96.3	95.4	84.1	84.9	87.6	86.8	85.7
Male	58.8	55.2	61.5	59.7	60.9	58.6	52.6	49.8	54.4	51.1	51.8
Female	42.6	41.0	39.9	43.1	46.9	47.9	43.4	43.7	44.0	42.3	41.2
White	47.7	44.5	45.2	46.2	49.4	47.8	44.1	44.4	44.9	44.8	44.1
Black	59.0	57.4	64.9	63.3	65.0	66.6	57.1	53.2	60.6	54.6	54.1
Other	42.9	41.6	40.1	44.7	43.5	42.7	41.2	37.3	33.7	25.9	31.4
†Hispanic						21.0	21.5	15.1	19.4	18.0	14.7
†Non-Hispanic						29.9	27.3	27.7	29.8	27.4	28.9
All	51.1	48.5	51.2	51.8	53.9	53.5	48.1	46.8	49.3	46.9	46.7

~Data for 1980-1983 are not stable, &amp; are therefore left blank.

Reference cohort is 2001 ESRD patients. Overall death rates are adjusted for age, gender, race, &amp; primary diagnosis.

Death rates for diabetes, hypertension, glomerulonephritis, &amp; other are adjusted for age, gender, &amp; race.

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

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

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

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

On our website: deaths per 1,000 patients, &amp; counts of total deaths, years at risk, &amp; total patients (Tables H.6.1 &amp; H.6.2).

Table H.7

**Annual Death Rates: ESRD Patients, Unadjusted**

per 1,000 patient years at risk, period prevalent patients, 2001, by age on January 1, gender, race, &amp; primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N. Am.	Asian	All	White	Black	N. Am.	Asian	All	White	Black	N. Am.	Asian	All
0-19	52.0	72.2	53.3	39.0	61.4	60.2	79.9	56.9	41.1	66.9	57.7	76.3	55.1	39.0	64.8
20-29	71.2	88.0	66.6	51.5	76.6	78.4	95.4	70.5	52.7	84.7	74.9	92.4	69.0	52.2	81.1
30-39	83.2	109.1	80.2	65.3	88.3	85.7	107.2	83.0	66.5	90.8	84.3	108.1	81.8	65.9	89.4
40-49	114.0	122.6	114.0	93.2	115.5	123.4	136.6	119.1	94.3	126.4	117.7	129.3	116.3	93.6	120.0
50-59	179.7	158.3	147.7	135.7	170.3	201.7	169.7	142.1	141.2	184.3	188.9	164.2	144.9	138.2	176.7
60-64	239.8	192.2	193.9	187.4	220.3	259.4	188.9	191.6	168.5	224.1	249.2	190.3	192.6	178.4	222.3
65-69	313.2	235.2	233.1	219.4	283.4	306.4	234.8	231.2	200.8	270.5	309.8	235.0	231.9	209.3	276.3
70-79	416.3	305.7	304.8	309.6	381.3	397.5	316.5	291.2	270.9	359.4	406.6	312.7	296.0	287.2	368.9
80+	592.0	460.0	443.9	473.3	555.5	577.1	444.9	429.6	422.9	518.6	584.4	449.6	434.0	444.3	534.4
All	242.0	198.1	178.7	204.7	226.8	268.1	223.3	193.5	206.8	246.8	254.0	212.5	186.9	205.8	236.8
<b>HYPERTENSION</b>															
0-19	17.6	25.0	24.1	11.0	20.7	19.9	29.1	26.4	11.8	23.7	18.8	27.0	25.8	11.2	22.2
20-29	25.0	31.5	34.8	16.3	28.9	28.6	38.2	37.3	17.3	34.1	26.4	33.8	36.2	16.6	30.8
30-39	35.0	43.6	48.2	23.9	40.4	41.1	50.7	50.1	24.7	46.8	37.1	46.0	48.9	24.2	42.6
40-49	61.8	72.9	73.9	38.4	68.8	62.8	75.3	79.0	40.2	70.5	62.2	73.7	76.0	39.2	69.4
50-59	116.3	104.9	120.1	68.0	107.7	116.7	115.2	125.8	65.5	113.3	116.4	108.7	122.1	66.8	109.8
60-64	171.8	162.1	183.8	98.6	163.8	188.2	160.3	179.5	102.5	168.8	178.1	161.3	182.1	100.1	165.9
65-69	235.3	197.7	246.1	149.3	216.9	259.6	202.3	242.7	137.0	224.4	244.8	200.0	244.3	143.0	220.2
70-79	346.4	289.6	366.6	233.4	328.0	354.5	284.4	355.9	220.9	321.0	349.6	286.6	360.6	227.3	324.8
80+	506.3	439.7	634.8	389.1	489.9	520.1	456.2	556.9	355.3	493.2	512.3	449.9	580.0	372.2	491.5
All	263.3	133.8	165.5	143.3	195.9	290.3	178.8	208.1	147.3	226.3	273.9	153.0	184.6	145.1	208.4
<b>GLOMERULONEPHRITIS</b>															
0-19	10.4	17.8	13.2	7.6	12.5	11.4	19.9	13.7	7.8	13.6	10.9	18.8	13.4	7.7	13.0
20-29	16.2	26.6	19.8	11.5	19.4	18.5	26.6	19.9	11.7	20.9	17.2	26.6	19.9	11.6	20.0
30-39	22.8	32.0	28.4	17.9	25.4	25.1	34.7	28.0	17.2	27.9	23.7	33.1	28.2	17.6	26.4
40-49	40.1	59.5	46.2	30.6	45.3	42.3	55.8	44.0	27.5	44.9	40.9	58.1	45.3	29.0	45.1
50-59	71.0	88.9	76.9	51.3	74.5	71.4	81.4	74.0	47.5	72.0	71.2	86.1	75.6	49.5	73.6
60-64	110.4	138.7	119.5	83.7	114.4	115.3	127.8	108.7	77.0	115.7	112.2	133.8	114.8	80.9	114.9
65-69	159.0	170.3	157.8	120.8	159.4	154.8	173.2	147.3	110.8	156.0	157.4	171.5	152.5	116.0	158.1
70-79	252.9	229.9	261.6	196.3	247.5	264.9	239.6	226.1	182.6	254.1	257.3	235.0	244.3	189.7	250.1
80+	431.4	425.5	432.7	362.3	428.0	429.8	389.9	386.9	332.7	417.5	430.8	405.8	397.4	347.5	423.6
All	94.8	75.5	70.8	59.1	87.6	97.1	80.0	70.2	56.1	88.7	95.7	77.4	70.5	57.7	88.0
<b>OTHER</b>															
0-19	14.9	27.9	20.1	11.5	17.6	16.7	34.2	21.4	12.2	20.2	15.6	30.4	20.5	11.9	18.6
20-29	21.4	41.1	29.1	17.3	25.7	24.5	49.1	30.4	18.0	31.0	22.8	45.3	29.7	17.7	28.2
30-39	30.5	63.6	39.2	24.9	39.5	35.0	68.0	42.8	25.5	44.9	32.6	65.8	41.1	25.2	42.1
40-49	51.4	84.8	61.5	38.3	60.5	50.6	93.8	61.3	40.1	62.5	51.0	89.0	61.4	39.3	61.4
50-59	86.0	117.1	98.1	67.8	92.8	83.8	117.4	95.0	65.1	90.7	85.0	117.2	96.6	66.3	91.8
60-64	142.4	174.5	143.0	99.9	147.6	133.0	182.5	138.7	97.0	142.1	137.9	178.4	141.1	98.4	145.0
65-69	204.4	224.8	191.9	140.0	205.8	185.3	230.6	192.7	139.1	193.5	195.7	227.7	192.3	139.6	200.0
70-79	323.5	324.6	298.3	229.9	321.2	305.1	329.2	271.0	216.6	306.2	315.3	326.9	283.3	222.9	314.3
80+	510.8	467.2	451.7	372.1	501.4	478.2	486.2	435.9	359.9	475.2	497.1	476.9	444.2	366.2	490.0
All	132.9	126.2	98.4	86.3	129.6	124.4	135.0	102.6	79.6	124.9	129.0	130.4	100.4	82.7	127.4
<b>ALL</b>															
0-19	14.2	25.4	17.7	10.3	16.7	15.7	29.7	18.4	10.7	18.8	14.8	27.2	18.0	10.5	17.6
20-29	23.1	36.4	30.2	15.1	27.3	27.8	45.5	32.7	16.5	33.4	25.2	40.5	31.5	15.8	30.0
30-39	42.6	54.0	46.8	24.9	45.9	47.0	62.1	49.9	26.2	51.5	44.4	57.5	48.4	25.5	48.3
40-49	71.0	82.1	84.1	48.0	74.4	73.6	92.0	87.8	44.0	79.0	72.0	86.1	85.7	46.0	76.3
50-59	124.1	122.4	131.4	89.9	122.3	131.8	136.9	129.7	86.2	131.5	127.3	128.9	130.6	88.1	126.3
60-64	183.5	175.1	180.5	136.1	178.6	198.3	176.8	181.5	129.5	186.7	190.1	176.0	181.1	133.0	182.4
65-69	249.7	215.7	223.1	178.0	236.4	255.1	222.2	224.2	168.4	238.1	252.2	219.3	223.7	173.0	237.3
70-79	353.0	297.5	311.6	260.8	336.8	354.7	303.1	295.4	241.9	331.6	353.7	300.8	301.7	250.7	334.2
80+	516.4	449.0	482.6	409.1	500.6	518.2	452.4	456.6	378.9	492.1	517.2	451.1	465.3	393.3	496.4
All	185.6	142.0	146.4	129.7	169.3	199.2	177.6	165.9	129.9	187.7	191.5	159.2	156.5	129.8	177.6

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

Table H.8

**Annual Death Rates: Dialysis Patients, Unadjusted**

per 1,000 patient years at risk, period prevalent patients, 2001, by age on January 1, gender, race, &amp; primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N. Am.	Asian	All	White	Black	N. Am.	Asian	All	White	Black	N. Am.	Asian	All
0-19	98.9	86.0	67.9	55.7	88.7	111.8	93.2	69.3	57.4	105.4	108.9	89.5	68.6	55.7	99.3
20-29	109.7	93.6	73.9	62.9	101.1	121.1	103.2	75.0	63.0	110.2	115.6	99.1	74.5	63.0	106.1
30-39	144.8	130.6	97.7	86.1	138.6	160.7	129.3	96.0	85.7	145.2	151.2	130.0	96.7	85.9	141.5
40-49	183.5	137.8	134.5	116.6	164.4	196.1	149.4	131.5	113.3	171.4	188.5	143.5	133.1	115.2	167.4
50-59	226.3	171.4	167.1	155.8	202.0	238.4	178.2	154.6	157.2	205.8	231.6	175.0	160.6	156.4	203.9
60-64	269.7	203.8	212.5	204.4	242.2	280.6	196.0	197.2	179.7	237.4	275.1	199.3	203.6	192.2	239.6
65-69	338.2	245.2	249.0	233.8	302.3	320.3	239.6	237.3	209.4	279.9	329.0	241.7	241.4	220.2	289.7
70-79	426.2	310.3	309.4	315.2	389.5	402.2	319.1	290.8	269.4	362.9	413.6	316.1	297.2	288.3	374.3
80+	591.7	462.1	442.8	463.5	555.1	576.7	446.1	417.9	412.1	517.9	583.9	451.1	425.7	434.0	533.8
All	304.5	213.6	198.4	225.7	270.0	318.0	233.9	203.4	219.0	276.4	311.0	225.5	201.3	222.2	273.3
<b>HYPERTENSION</b>															
0-19	34.2	30.4	33.7	17.0	31.3	38.7	34.9	35.6	17.9	35.8	36.4	32.8	33.7	17.3	33.6
20-29	40.0	34.8	42.5	21.5	35.7	45.9	40.8	43.8	22.5	41.6	42.0	36.9	43.3	21.8	37.7
30-39	58.8	50.8	64.0	33.8	52.1	66.9	58.1	64.8	34.4	59.3	61.8	53.4	64.3	34.1	54.7
40-49	94.1	84.0	96.5	52.6	85.3	96.1	85.7	100.1	54.6	86.7	94.8	84.6	98.0	53.5	85.8
50-59	160.3	117.3	150.8	86.8	129.0	157.8	127.6	151.8	82.8	134.4	159.3	121.3	151.1	84.8	131.1
60-64	210.5	180.6	218.5	117.5	190.9	231.1	172.0	206.3	122.8	191.2	218.5	176.6	213.4	119.7	191.0
65-69	268.2	209.0	282.6	167.0	239.3	296.1	216.1	272.3	153.1	246.9	279.2	212.6	277.3	159.7	242.8
70-79	360.8	296.4	394.2	241.8	340.0	366.3	290.1	372.6	227.4	329.9	363.0	292.8	382.1	234.7	335.4
80+	509.2	443.8	680.7	392.7	493.1	521.9	458.2	580.0	358.4	495.2	514.7	452.7	609.8	375.5	494.1
All	314.6	150.6	213.3	176.6	228.3	337.6	194.9	254.1	177.1	255.0	323.8	170.1	232.4	176.8	239.6
<b>GLOMERULONEPHRITIS</b>															
0-19	26.1	25.8	22.5	14.8	25.2	28.4	28.8	22.4	15.0	27.9	27.1	27.2	22.5	14.9	26.4
20-29	32.0	33.7	28.7	18.8	31.8	36.9	32.9	27.8	18.8	33.7	34.0	33.4	28.2	18.8	32.6
30-39	45.8	44.3	44.1	30.3	44.1	51.2	46.6	42.0	29.2	47.2	47.9	45.3	42.9	29.9	45.4
40-49	75.9	76.4	68.8	49.7	74.5	79.5	73.7	63.7	44.9	73.7	77.3	75.4	66.6	47.3	74.2
50-59	125.8	112.9	107.3	77.6	118.2	120.7	101.7	99.3	70.0	109.8	123.8	108.6	103.8	74.0	114.9
60-64	168.8	158.0	152.0	113.7	162.8	165.0	147.5	135.7	103.8	155.4	167.3	153.2	143.2	109.3	159.7
65-69	217.6	193.7	196.2	152.0	208.5	209.2	197.1	175.7	139.4	200.5	214.3	195.3	186.5	145.7	205.2
70-79	281.1	246.7	294.5	225.9	274.1	299.7	247.7	247.5	204.2	281.2	288.0	247.2	271.1	214.9	277.0
80+	440.7	436.7	479.4	389.0	438.2	437.2	396.5	413.4	355.9	425.9	439.3	414.4	423.5	372.5	432.9
All	164.9	97.2	102.7	92.9	137.6	166.6	101.7	99.7	91.4	136.9	165.5	99.1	101.2	92.2	137.3
<b>OTHER</b>															
0-19	42.1	44.5	37.2	24.1	42.2	43.7	52.3	38.7	25.5	45.5	42.8	47.9	37.8	24.9	43.7
20-29	46.9	54.3	45.5	29.6	48.6	51.5	63.4	46.2	31.0	55.0	49.0	59.4	45.8	30.4	51.8
30-39	66.2	81.9	66.2	44.2	72.4	73.9	91.1	69.6	45.7	80.6	69.8	86.5	68.1	45.0	76.4
40-49	100.8	107.3	96.9	66.1	102.6	104.1	121.1	94.8	68.0	109.7	102.3	113.5	96.0	67.2	105.9
50-59	156.5	143.7	143.7	102.5	150.4	150.2	147.1	136.2	102.7	147.3	153.5	145.2	139.9	102.6	148.9
60-64	218.4	208.2	194.3	137.3	212.7	212.1	214.6	185.1	132.5	209.3	215.4	211.3	190.3	134.7	211.0
65-69	276.6	258.2	252.0	184.2	269.5	258.1	259.1	242.6	179.9	255.5	268.2	258.7	246.7	182.0	262.9
70-79	360.1	343.3	344.9	258.8	354.6	348.4	350.0	308.0	245.3	344.9	354.9	346.6	323.8	251.9	350.2
80+	522.3	470.4	504.7	399.2	512.5	488.8	489.9	478.7	384.4	485.3	508.2	480.4	492.3	391.9	500.6
All	233.8	157.8	154.0	141.0	207.5	217.2	169.7	154.8	127.7	198.1	226.2	163.6	154.4	133.9	203.1
<b>ALL</b>															
0-19	37.8	37.8	30.5	19.7	37.0	40.7	42.9	30.9	22.0	40.6	39.1	40.2	30.7	20.7	38.6
20-29	47.0	44.5	43.9	24.0	44.7	55.8	55.0	44.8	27.1	53.6	50.9	49.4	44.3	25.5	48.8
30-39	84.8	67.4	69.6	41.1	74.5	93.8	78.2	70.3	42.6	83.4	88.6	72.1	70.0	41.8	78.3
40-49	127.6	97.8	113.0	73.7	110.6	133.2	109.5	112.3	69.5	118.2	129.9	102.6	112.7	71.7	113.7
50-59	187.8	139.8	158.9	121.3	163.8	192.6	152.9	149.6	117.5	170.5	189.9	145.7	154.2	119.5	166.8
60-64	237.7	193.0	207.9	166.0	217.4	250.4	189.0	193.6	154.9	218.6	243.6	190.9	199.9	160.7	218.0
65-69	297.8	230.2	249.5	202.9	271.5	296.5	233.0	237.9	187.1	264.5	297.2	231.8	242.3	194.4	267.9
70-79	374.8	305.5	328.0	274.4	354.7	374.2	308.6	302.1	249.3	345.1	374.5	307.4	311.8	260.8	349.8
80+	521.6	452.8	506.2	414.7	505.7	522.0	454.4	462.0	381.5	495.3	521.8	453.8	476.6	397.3	500.6
All	270.2	164.4	183.3	173.7	226.4	279.6	199.1	192.9	171.1	240.0	274.4	181.7	188.5	172.4	232.8

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

Table H.9

**Annual Death Rates: Hemodialysis Patients, Unadjusted**

per 1,000 patient years at risk, period prevalent patients, 2001, by age on January 1, gender, race, &amp; primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N. Am.	Asian	All	White	Black	N. Am.	Asian	All	White	Black	N. Am.	Asian	All
0-19	99.9	84.0	72.3	56.7	86.3	115.4	92.1	75.9	58.4	106.3	112.6	88.0	74.1	56.7	99.1
20-29	112.9	93.2	78.9	64.3	102.1	127.7	102.6	82.0	64.4	112.3	120.8	98.6	80.9	64.4	107.8
30-39	147.6	130.3	103.6	89.6	140.1	174.6	129.7	102.8	86.4	151.3	157.8	130.0	103.2	88.1	144.9
40-49	187.2	134.0	137.3	118.0	164.3	195.6	145.6	136.6	115.1	168.5	190.4	139.7	137.0	116.8	166.1
50-59	220.5	168.2	168.7	155.3	196.9	230.5	174.3	151.5	157.4	199.4	224.9	171.4	159.7	156.3	198.1
60-64	260.7	199.9	206.2	198.2	234.4	271.0	189.1	194.5	178.6	228.5	265.8	193.5	199.4	188.6	231.3
65-69	327.0	241.0	244.5	228.2	292.7	309.7	235.6	231.9	196.7	271.6	317.9	237.6	236.3	210.5	280.7
70-79	418.0	306.9	295.8	317.6	381.9	393.6	315.7	285.0	260.7	355.6	405.1	312.7	288.6	283.4	366.7
80+	590.3	456.8	427.5	458.5	551.6	568.7	447.4	409.8	387.5	511.5	579.1	450.3	415.4	417.5	528.5
All	303.1	211.4	197.5	226.7	267.2	315.4	231.7	203.1	214.6	273.0	309.0	223.2	200.7	220.3	270.2
<b>HYPERTENSION</b>															
0-19	34.9	29.8	35.9	17.5	31.1	40.6	35.1	39.4	18.7	36.4	37.8	32.8	37.6	18.0	34.0
20-29	41.4	34.6	45.2	22.4	35.8	49.2	41.6	48.2	23.7	43.1	44.1	36.9	46.8	22.7	38.2
30-39	59.7	51.0	67.5	35.2	52.5	71.4	59.0	70.4	36.1	61.1	63.9	53.7	68.5	35.5	55.4
40-49	95.1	82.4	97.6	54.3	84.3	100.7	84.8	106.6	55.0	87.0	97.0	83.2	101.1	54.6	85.2
50-59	160.2	116.2	151.9	84.9	127.6	162.5	126.2	156.2	83.7	134.6	161.1	120.0	153.3	84.3	130.3
60-64	209.9	177.2	210.5	116.7	188.1	230.6	168.6	203.4	120.4	187.9	217.8	173.3	207.2	118.1	188.0
65-69	265.7	207.0	275.9	164.8	236.0	297.7	211.6	265.7	150.2	243.8	278.3	209.3	270.3	157.4	239.5
70-79	358.3	294.4	368.0	238.6	336.7	360.1	286.0	355.5	227.3	323.8	359.0	289.6	360.8	233.1	330.7
80+	506.6	440.0	645.4	380.2	489.4	513.2	458.3	557.0	350.7	488.9	509.4	451.3	582.0	365.3	489.1
All	316.7	150.7	208.8	177.0	227.5	340.6	197.0	259.7	184.6	256.7	326.3	170.9	232.9	180.5	239.8
<b>GLOMERULONEPHRITIS</b>															
0-19	27.3	26.1	24.9	15.6	26.0	30.7	29.1	25.8	15.8	29.2	28.8	27.5	25.2	15.7	27.4
20-29	33.6	34.2	31.5	19.9	32.9	39.3	33.3	31.9	20.1	34.9	35.7	33.8	31.7	20.0	33.7
30-39	45.7	44.9	48.1	31.5	44.4	55.8	48.5	47.8	31.3	50.2	49.3	46.4	48.0	31.4	46.7
40-49	77.8	77.5	72.1	51.9	76.1	82.8	75.7	70.0	45.9	76.6	79.7	76.9	71.3	49.3	76.3
50-59	127.5	112.7	111.8	79.5	119.1	122.4	101.0	104.9	71.9	110.6	125.6	108.4	108.8	76.1	115.9
60-64	167.9	155.4	151.1	113.9	161.3	162.7	145.8	138.4	102.4	152.8	165.9	151.1	144.0	108.7	157.8
65-69	217.7	189.1	193.5	149.5	206.6	209.9	198.4	176.1	135.4	200.4	214.7	193.1	185.2	142.3	204.1
70-79	280.2	243.0	289.7	224.7	272.4	298.6	247.2	244.0	202.3	279.9	287.1	245.2	266.5	213.5	275.5
80+	431.5	440.9	465.0	389.2	430.5	431.8	403.9	403.9	349.8	422.3	431.6	420.2	413.2	369.7	427.0
All	169.3	98.4	107.5	97.4	139.8	178.5	106.6	115.5	99.0	145.4	172.7	101.7	111.2	98.1	142.0
<b>OTHER</b>															
0-19	41.5	43.7	40.5	24.2	41.7	46.5	51.8	43.8	25.5	47.6	43.7	47.4	41.6	24.8	44.3
20-29	48.1	54.8	49.5	30.2	49.7	53.0	64.6	52.3	32.2	56.6	50.3	60.1	50.8	31.3	53.1
30-39	66.0	82.8	71.4	44.7	73.0	78.7	92.8	78.7	46.3	84.1	71.6	87.6	75.4	45.6	78.2
40-49	103.1	105.7	101.8	66.1	103.3	107.0	122.9	102.8	66.9	112.5	104.8	113.1	102.2	66.5	107.3
50-59	155.4	144.1	146.9	102.1	149.9	152.2	148.8	141.2	101.2	149.0	153.9	146.2	144.1	101.6	149.5
60-64	218.7	208.1	195.4	135.5	212.8	213.5	213.0	190.0	128.7	209.6	216.3	210.5	193.1	131.8	211.3
65-69	274.9	256.4	250.7	182.1	267.5	256.7	259.1	247.3	176.1	254.5	266.6	257.8	248.9	179.2	261.3
70-79	361.3	341.4	340.9	253.3	355.1	347.2	351.4	308.4	236.9	344.1	355.1	346.5	321.7	244.9	350.1
80+	521.9	463.6	497.0	390.2	510.6	480.0	496.0	475.7	371.9	478.8	504.0	479.9	486.4	381.0	496.6
All	240.0	159.9	160.5	142.9	211.6	227.8	176.5	168.7	132.0	206.8	234.5	167.7	164.4	137.1	209.4
<b>ALL</b>															
0-19	37.5	36.8	32.2	20.5	36.4	44.2	42.5	35.9	21.8	42.5	40.4	39.5	33.3	21.1	39.1
20-29	48.0	44.8	46.0	24.7	45.3	58.9	56.3	50.8	29.1	56.0	52.6	50.0	48.5	26.7	50.0
30-39	84.7	67.6	74.7	42.5	74.4	100.1	79.8	79.3	44.8	86.7	90.8	72.7	77.1	43.6	79.4
40-49	129.9	96.3	116.3	74.8	110.3	135.8	109.6	119.9	72.0	119.4	132.2	101.6	117.8	73.6	113.9
50-59	185.3	138.2	160.9	121.9	161.2	191.5	151.2	148.3	120.4	168.8	188.0	144.0	154.6	121.2	164.6
60-64	233.5	189.8	202.6	163.0	212.9	246.0	184.0	191.7	153.6	213.1	239.3	186.7	196.5	158.5	213.0
65-69	292.2	226.9	244.4	198.9	265.7	291.4	229.6	233.0	178.8	259.3	291.8	228.4	237.3	188.1	262.4
70-79	371.8	302.9	313.5	273.5	351.0	368.8	305.6	295.2	244.0	339.7	370.4	304.5	301.9	257.3	345.3
80+	519.3	448.6	486.5	406.6	502.2	513.8	455.8	451.3	367.2	489.2	516.8	453.1	462.7	385.8	495.8
All	273.2	164.6	184.0	176.3	226.9	285.3	201.5	197.7	175.5	243.4	278.6	182.8	191.4	175.9	234.6

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

Table H.10

**Annual Death Rates: CAPD/CCPD Patients, Unadjusted**

per 1,000 patient years at risk, period prevalent patients, 2001, by age on January 1, gender, race, &amp; primary diagnosis

DIABETES	Male					Female					All				
	White	Black	N. Am.	Asian	All	White	Black	N. Am.	Asian	All	White	Black	N. Am.	Asian	All
0-19	99.5	96.6	30.0	46.3	99.5	105.6	105.1	31.6	50.9	105.6	103.3	100.8	30.8	48.6	103.3
20-29	96.5	89.5	34.6	47.5	91.0	103.1	98.4	36.8	52.6	99.1	99.8	94.6	35.6	47.8	95.1
30-39	123.1	108.4	52.0	63.4	118.0	130.1	119.4	55.7	70.9	125.4	126.5	114.3	54.2	66.2	121.7
40-49	168.3	147.0	87.4	94.3	159.9	188.0	163.8	94.0	105.9	174.9	176.5	156.0	91.7	99.3	166.6
50-59	248.2	199.4	148.7	143.3	229.7	272.1	222.6	162.6	161.4	248.2	258.3	212.3	155.8	150.5	238.1
60-64	325.7	253.6	237.8	204.1	302.8	361.5	290.9	258.7	229.1	331.9	342.1	273.6	252.1	217.2	317.0
65-69	407.8	294.1	339.4	258.8	378.4	441.7	330.8	374.4	296.8	397.3	422.5	316.6	362.6	278.9	387.6
70-79	498.6	349.0	501.6	335.1	470.8	547.6	396.3	553.3	390.1	506.5	519.4	377.9	523.0	356.7	486.9
80+	687.3	470.9	838.3	502.8	663.2	780.5	538.4	935.6	589.0	732.7	724.4	512.8	887.0	536.1	692.6
All	298.9	218.9	186.4	198.3	277.5	322.7	254.9	194.3	230.8	297.0	309.3	239.2	191.0	212.6	286.6
<b>HYPERTENSION</b>															
0-19	32.7	38.2	16.1	14.6	33.2	33.4	40.0	16.3	15.5	36.6	33.0	39.0	16.1	14.6	34.6
20-29	35.8	39.9	20.9	16.9	36.6	36.8	42.1	21.4	18.0	37.5	36.2	41.1	21.3	17.5	37.0
30-39	51.1	54.2	35.5	25.5	52.2	52.8	57.8	36.5	27.3	54.0	51.9	55.8	35.7	26.7	53.0
40-49	81.3	83.4	67.1	42.7	80.6	84.2	88.3	69.5	46.3	84.0	82.5	85.8	68.5	44.7	82.2
50-59	133.6	127.3	129.3	73.6	128.0	137.6	137.3	135.1	79.8	133.0	135.3	132.3	132.0	77.5	130.4
60-64	198.8	186.4	232.7	116.7	190.6	211.5	199.8	244.3	128.1	201.1	204.2	193.5	235.8	122.7	195.5
65-69	270.8	239.3	374.9	167.9	261.6	287.1	264.6	397.6	185.1	271.7	277.4	253.3	378.9	179.2	266.3
70-79	376.9	320.1	625.4	248.3	366.3	408.9	357.8	667.3	274.1	393.5	388.8	339.2	636.8	259.8	377.0
80+	581.3	489.1	1,178.4	416.7	569.7	643.3	534.5	1,265.2	465.2	617.3	603.4	520.1	1,221.8	438.0	588.1
All	282.2	127.9	206.7	142.4	219.8	284.8	149.8	124.1	132.0	213.4	283.3	138.8	169.4	136.6	216.9
<b>GLOMERULONEPHRITIS</b>															
0-19	26.3	29.8	10.9	12.6	25.7	24.8	29.0	10.2	12.4	24.9	25.6	29.3	10.4	12.5	25.3
20-29	28.7	31.1	14.1	14.6	28.5	27.5	30.4	13.3	14.3	27.1	28.0	30.7	13.4	14.4	27.7
30-39	41.1	42.1	23.9	21.9	39.3	39.1	41.4	22.7	21.7	38.1	40.1	41.7	23.0	21.8	38.6
40-49	64.8	64.0	45.0	36.6	62.8	62.6	63.4	43.1	36.7	59.0	63.8	63.7	43.6	36.7	60.9
50-59	104.9	99.1	86.5	62.7	100.0	102.6	98.9	83.6	63.0	96.9	103.9	99.0	85.0	62.8	98.5
60-64	158.2	143.0	155.1	99.7	153.7	154.5	143.0	150.6	101.1	149.9	156.6	143.0	153.3	100.3	152.0
65-69	213.8	185.1	250.0	143.0	208.5	208.7	186.4	244.7	146.2	201.2	211.6	186.0	247.4	144.3	205.1
70-79	296.2	245.7	414.1	210.2	289.6	294.4	249.9	408.4	215.2	281.7	295.6	247.7	414.1	212.9	286.9
80+	473.7	371.7	779.9	351.5	465.1	471.6	379.6	774.6	364.6	456.4	473.0	375.4	777.2	359.8	462.1
All	135.4	75.2	71.3	60.5	116.8	108.2	73.2	37.2	57.7	91.6	123.3	74.1	48.2	58.9	104.4
<b>OTHER</b>															
0-19	43.8	56.0	12.5	23.8	45.8	41.5	55.2	11.9	23.6	43.1	42.8	55.7	12.2	23.7	44.6
20-29	45.2	55.6	15.4	26.1	45.9	43.7	55.0	14.8	25.9	45.2	44.4	55.2	15.1	26.0	45.5
30-39	61.6	71.9	24.8	37.2	63.5	58.9	72.2	23.9	37.4	62.6	59.9	72.1	24.2	37.4	62.9
40-49	91.2	104.3	44.4	59.1	93.3	89.2	103.7	43.1	59.9	91.6	90.1	103.9	43.5	59.7	92.3
50-59	142.6	150.6	81.1	96.0	142.0	138.5	151.3	79.3	97.7	139.3	140.1	151.0	79.7	96.9	140.4
60-64	201.6	207.1	137.9	144.7	200.4	198.0	210.6	135.6	148.7	197.6	199.4	208.7	135.6	146.8	198.8
65-69	260.8	255.1	211.3	196.9	258.4	258.9	259.3	209.3	203.6	256.5	260.0	257.7	209.3	200.6	257.5
70-79	343.4	323.0	332.8	275.5	339.7	344.3	331.4	331.6	286.7	340.5	343.8	327.3	332.5	281.3	340.0
80+	516.0	463.8	593.3	437.2	513.7	528.7	479.7	596.7	459.4	525.0	520.0	473.1	593.3	438.1	517.3
All	177.2	118.7	88.9	111.9	161.8	149.1	114.4	55.5	87.9	136.6	162.2	116.1	69.4	97.5	147.9
<b>ALL</b>															
0-19	39.5	48.8	12.3	17.4	40.4	37.3	45.6	11.0	20.4	37.9	38.5	47.4	11.6	18.8	39.3
20-29	45.6	43.4	21.1	20.5	43.1	44.1	46.0	18.6	19.9	42.3	44.8	44.9	19.4	20.1	42.7
30-39	79.3	63.7	35.4	31.0	71.0	77.7	66.1	32.3	30.8	70.1	78.4	65.1	33.5	30.9	70.5
40-49	117.2	94.2	67.4	62.0	106.6	117.4	99.2	68.2	55.4	104.9	117.3	96.9	67.9	58.0	105.7
50-59	186.4	151.9	137.5	103.6	171.7	186.6	167.2	143.2	98.9	174.4	186.5	160.1	140.5	101.2	173.0
60-64	254.3	217.8	218.5	159.5	241.5	268.4	240.2	242.9	177.9	256.1	261.0	229.8	233.6	169.0	248.7
65-69	318.7	265.1	355.0	215.9	305.9	336.2	290.2	358.4	236.6	318.0	326.3	280.3	357.0	227.4	311.7
70-79	394.9	323.7	481.9	285.6	383.5	428.8	365.2	539.3	306.3	412.1	408.3	346.6	501.7	294.9	395.4
80+	570.1	460.0	593.3	432.8	559.9	628.9	516.0	893.0	473.1	607.1	590.8	495.2	593.3	449.5	577.7
All	236.1	141.2	155.6	136.0	207.8	223.3	156.8	127.9	124.0	195.6	230.2	149.8	139.4	129.6	201.9

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



Table H.13

**Death Rates by Primary Cause of Death: ESRD Patients, Unadjusted***per 1,000 patient years at risk, period prevalent patients, 1999-2001 combined*

	0-19		20-44				45-64				
	All	Male	Female	White	Black	All	Male	Female	White	Black	All
Acute M.I.	0.3	3.1	2.6	2.9	3.0	2.9	12.3	11.5	12.8	10.9	12.0
Hyperkalemia	0.3	1.1	1.0	1.0	1.2	1.1	1.4	1.8	1.8	1.1	1.6
Pericarditis	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2
Atherosclerotic H.D.	.	0.6	0.5	0.7	0.5	0.6	3.1	3.2	3.6	2.5	3.1
Cardiomyopathy	0.4	1.1	1.0	0.8	1.4	1.1	4.1	3.4	4.3	3.3	3.8
Cardiac arrhythmia	0.7	2.1	2.6	2.1	2.9	2.3	6.0	6.3	6.5	5.7	6.1
Cardiac arrest	3.2	10.7	10.9	8.9	14.6	10.8	27.0	28.5	26.3	30.3	27.6
Valvular heart disease	0.1	0.5	0.3	0.4	0.5	0.4	0.5	0.7	0.6	0.7	0.6
Pulmonary edema	0.1	0.4	0.5	0.3	0.6	0.4	0.9	1.1	1.0	1.0	1.0
AIDS	0.2	2.1	1.5	0.2	4.9	1.9	0.7	0.4	0.1	1.4	0.6
Cachexia	0.1	0.2	0.3	0.3	0.2	0.3	0.7	1.0	1.0	0.7	0.8
Cerebrovascular disease	1.4	2.6	3.1	2.4	3.5	2.8	5.9	8.6	6.6	7.8	7.1
G.I. hemorrhage	0.1	0.3	0.3	0.2	0.5	0.3	1.0	1.0	0.9	1.2	1.0
Other hemorrhage	0.5	0.8	0.9	0.6	1.3	0.9	1.0	1.4	1.0	1.6	1.2
Septicemia	2.2	5.3	7.9	5.1	8.6	6.4	14.3	19.4	15.4	18.7	16.5
Pulmonary infection	0.3	0.9	0.8	0.7	1.2	0.8	2.1	2.1	2.3	1.8	2.1
Viral infection	0.2	0.2	0.1	0.1	0.3	0.2	0.3	0.2	0.2	0.2	0.2
Other infection	0.2	0.3	0.5	0.4	0.4	0.4	0.6	1.0	0.8	0.8	0.8
Malignant disease	0.7	1.0	1.2	1.2	1.0	1.1	4.8	4.4	5.1	4.4	4.7
Other cause	7.0	14.7	15.8	14.8	16.8	15.2	32.5	33.0	35.8	29.6	32.7
Unknown cause	1.7	5.3	5.2	4.1	7.7	5.3	10.3	10.8	9.3	12.7	10.5
All	19.4	53.6	57.3	47.5	71.1	55.1	129.9	140.0	135.4	136.7	134.3
Years at risk	19,738	150,339	110,563	152,565	88,728	260,902	246,381	191,466	246,258	156,673	437,846
Patients	21,852	165,734	122,052	166,246	99,781	287,786	287,840	226,395	290,298	183,319	514,235

  

	65+		All				All					
	Male	Female	White	Black	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	29.5	26.0	29.4	24.2	27.7	14.9	14.5	16.1	12.6	12.8	13.6	14.7
Hyperkalemia	5.1	5.1	6.5	2.3	5.1	2.4	2.8	3.3	1.5	2.4	1.8	2.6
Pericarditis	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.4	0.1	0.2
Atherosclerotic H.D.	13.0	12.0	14.7	8.5	12.5	5.4	5.7	6.8	3.7	4.6	3.7	5.5
Cardiomyopathy	16.4	11.4	16.9	8.1	14.0	7.0	5.7	7.9	4.2	4.8	4.2	6.4
Cardiac arrhythmia	16.4	14.7	17.1	12.9	15.5	8.1	8.4	9.1	7.0	6.6	6.2	8.2
Cardiac arrest	71.1	71.1	72.2	70.1	71.1	35.7	39.5	38.0	37.4	33.4	32.8	37.4
Valvular heart disease	1.9	2.1	2.4	1.2	2.0	0.9	1.1	1.2	0.8	0.5	0.6	1.0
Pulmonary edema	2.8	3.3	3.8	1.7	3.1	1.3	1.7	1.8	1.1	2.0	0.7	1.5
AIDS	0.1	0.1	<0.05	0.2	0.1	0.9	0.5	0.1	1.9	0.3	<0.05	0.7
Cachexia	3.7	4.3	4.8	2.5	4.0	1.5	2.0	2.2	1.1	1.0	1.1	1.7
Cerebrovascular disease	13.7	19.5	16.9	15.9	16.6	7.3	11.2	9.1	9.0	10.5	8.3	9.1
G.I. hemorrhage	2.6	2.6	2.6	2.5	2.6	1.3	1.4	1.3	1.4	1.0	1.8	1.4
Other hemorrhage	2.5	2.9	2.7	2.7	2.7	1.4	1.8	1.5	1.8	1.1	1.5	1.6
Septicemia	31.7	38.2	33.4	38.9	34.9	17.0	23.3	19.1	21.7	20.6	13.6	19.9
Pulmonary infection	10.1	7.0	9.7	5.9	8.6	4.2	3.5	4.5	2.8	4.4	4.1	3.9
Viral infection	0.4	0.3	0.3	0.4	0.4	0.3	0.2	0.2	0.3	0.3	0.4	0.3
Other infection	1.4	1.8	1.7	1.5	1.6	0.8	1.1	1.0	0.9	1.0	0.7	0.9
Malignant disease	15.2	10.3	14.0	11.5	12.8	6.9	5.7	7.2	5.5	4.0	3.3	6.4
Other cause	76.8	76.7	86.8	59.6	76.8	40.8	44.5	48.4	34.7	32.8	26.0	42.5
Unknown cause	23.6	24.6	24.3	25.5	24.1	12.9	14.4	13.3	15.0	14.5	5.9	13.6
All	338.4	334.2	360.5	296.4	336.3	171.3	189.4	192.2	164.5	158.9	130.5	179.5
Years at risk	177,555	175,485	228,700	100,425	353,041	585,820	485,708	641,105	350,258	17,849	43,894	1,071,528
Patients	237,773	233,549	312,430	128,247	471,322	704,057	591,138	783,882	416,327	21,047	51,496	1,295,195

Age is determined on January 1 of each calendar year.

\*All\* category includes patients of other &amp; unknown races.

U.S. only; patients of unknown age or gender are excluded so that rates can be calculated appropriately.

." Zero values in this cell.

On our website: death rates by primary cause of death for diabetic &amp; non-diabetic patients, &amp; by specific cause of death (H.13.1, H.13.2, &amp; H.a.1-4)

Table H.14

**Death Rates by Primary Cause of Death: Dialysis Patients, Unadjusted**

per 1,000 patient years at risk, period prevalent patients, 1999-2001 combined

	0-19					20-44					45-64					
	All	Male	Female	White	Black	All	Male	Female	White	Black	All	Male	Female	White	Black	All
Acute M.I.	0.80	5.20	4.30	6.20	3.80	4.80	17.40	15.50	20.30	12.50	16.50					
Hyperkalemia	0.70	2.00	1.80	2.50	1.60	1.90	2.00	2.50	3.00	1.40	2.20					
Pericarditis	0.30	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.30	0.20	0.30					
Atherosclerotic H.D.	.	1.10	0.90	1.50	0.60	1.00	4.50	4.30	5.90	3.00	4.40					
Cardiomyopathy	1.00	1.80	1.90	1.90	1.80	1.80	5.90	4.60	7.00	3.90	5.30					
Cardiac arrhythmia	1.60	3.70	4.50	4.80	3.70	4.10	8.70	8.50	10.50	6.60	8.60					
Cardiac arrest	7.60	18.80	19.20	20.20	18.70	18.90	39.10	38.70	42.70	35.50	38.90					
Valvular heart disease	0.10	0.80	0.60	0.80	0.70	0.70	0.70	1.00	0.90	0.80	0.90					
Pulmonary edema	0.30	0.80	0.80	0.70	0.80	0.80	1.30	1.50	1.60	1.10	1.40					
AIDS	0.40	3.80	2.80	0.60	6.40	3.40	1.10	0.50	0.10	1.70	0.80					
Cachexia	0.10	0.40	0.60	0.70	0.30	0.50	1.00	1.40	1.60	0.80	1.20					
Cerebrovascular disease	2.80	4.50	5.20	5.10	4.50	4.80	8.50	11.60	10.60	9.20	9.90					
G.I. hemorrhage	0.10	0.60	0.50	0.50	0.60	0.50	1.50	1.30	1.40	1.40	1.40					
Other hemorrhage	1.10	1.40	1.50	1.30	1.70	1.40	1.40	1.90	1.50	1.90	1.60					
Septicemia	5.60	9.20	13.60	11.30	11.00	11.10	20.60	26.00	24.70	21.90	23.10					
Pulmonary infection	0.60	1.40	1.30	1.30	1.50	1.30	2.90	2.60	3.40	2.00	2.80					
Viral infection	0.10	0.40	0.20	0.20	0.40	0.30	0.30	0.30	0.30	0.20	0.30					
Other infection	0.60	0.50	0.80	0.80	0.50	0.60	0.90	1.30	1.30	0.90	1.10					
Malignant disease	1.00	1.40	1.80	2.10	1.10	1.60	6.20	5.50	7.20	4.90	5.90					
Other cause	12.10	18.70	20.10	21.20	18.50	19.30	34.20	36.10	41.90	29.10	35.10					
Unknown cause	4.40	9.00	9.00	8.80	9.60	9.00	14.40	14.30	14.40	14.80	14.40					
All	41.50	85.60	91.40	92.60	88.00	88.10	173.00	179.70	200.50	153.80	176.00					
Years at risk	7,088	81,781	60,516	63,198	67,349	142,297	165,014	137,929	146,365	131,319	302,943					
Patients	8,651	95,708	70,906	74,814	78,052	166,614	203,840	171,154	187,052	157,209	374,994					

  

	65+					All						
	Male	Female	White	Black	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	32.20	27.60	32.20	25.20	29.90	20.60	18.90	23.80	14.50	15.80	18.70	19.80
Hyperkalemia	5.60	5.50	7.20	2.40	5.50	3.40	3.70	5.00	1.70	3.00	2.50	3.50
Pericarditis	0.30	0.30	0.30	0.40	0.30	0.30	0.30	0.30	0.30	0.50	0.20	0.30
Atherosclerotic H.D.	14.30	12.70	16.10	8.90	13.50	7.60	7.50	10.20	4.30	5.60	5.10	7.60
Cardiomyopathy	18.10	12.20	18.70	8.50	15.10	9.80	7.50	11.90	4.90	6.00	5.90	8.70
Cardiac arrhythmia	18.00	15.60	18.80	13.50	16.80	11.30	11.00	13.60	8.10	8.30	8.60	11.10
Cardiac arrest	78.00	75.80	79.40	73.10	76.90	50.00	51.80	57.10	43.70	41.70	45.20	50.90
Valvular heart disease	2.00	2.20	2.60	1.30	2.10	1.30	1.50	1.70	0.90	0.60	0.80	1.40
Pulmonary edema	3.10	3.50	4.10	1.80	3.30	1.90	2.30	2.70	1.30	2.50	1.00	2.10
AIDs	0.10	0.10	<0.05	0.20	0.10	1.20	0.70	0.10	2.30	0.40	<0.05	1.00
Cachexia	4.10	4.50	5.30	2.60	4.30	2.10	2.70	3.30	1.30	1.20	1.60	2.40
Cerebrovascular disease	14.90	20.70	18.40	16.50	17.80	10.20	14.50	13.50	10.40	12.90	11.40	12.20
G.I. hemorrhage	2.80	2.80	2.80	2.60	2.80	1.80	1.90	2.00	1.60	1.10	2.50	1.80
Other hemorrhage	2.80	3.10	3.00	2.80	2.90	1.90	2.30	2.20	2.10	1.30	2.00	2.10
Septicemia	34.70	40.60	36.60	40.60	37.60	23.70	30.30	28.40	25.40	25.00	18.60	26.80
Pulmonary infection	10.90	7.50	10.50	6.10	9.20	5.70	4.60	6.60	3.20	5.20	5.60	5.20
Viral infection	0.40	0.30	0.30	0.40	0.30	0.30	0.30	0.30	0.30	0.40	0.50	0.30
Other infection	1.50	1.90	1.80	1.50	1.70	1.00	1.50	1.40	1.00	1.20	0.90	1.20
Malignant disease	16.20	10.80	15.00	11.90	13.50	9.10	7.20	10.20	6.30	4.60	4.20	8.20
Other cause	77.30	78.10	89.10	58.90	77.70	47.70	52.10	61.70	36.20	36.10	29.70	49.80
Unknown cause	25.50	26.10	26.40	26.40	25.80	17.60	18.60	19.40	17.30	17.70	7.80	18.10
All	362.80	351.80	388.60	305.60	357.20	228.60	241.10	275.30	187.00	191.10	172.80	234.50
Years at risk	160,726	164,258	206,873	95,893	324,985	411,312	366,001	420,409	296,889	14,142	31,551	777,313
Patients	219,948	221,795	289,403	123,463	441,743	524,103	467,899	556,139	361,519	17,244	38,877	992,002

Age is determined on January 1 of each calendar year.

\*All\* category includes patients of other &amp; unknown races.

U.S. only; patients of unknown age or gender are excluded so that rates can be calculated appropriately.

\* Zero values in this cell.

On our website: death rates by primary cause of death for diabetic &amp; non-diabetic patients, &amp; by specific cause of death (H.14.1, H.14.2, &amp; H.a.1-4)

Table H.15

**Death Rates by Primary Cause of Death: Hemodialysis Patients, Unadjusted**

per 1,000 patient years at risk, period prevalent patients, 1999-2001 combined

	0-19		20-44			45-64					
	All	Male	Female	White	Black	All	Male	Female	White	Black	All
Acute M.I.	0.80	4.90	4.40	6.10	3.70	4.70	16.90	15.10	19.90	12.40	16.10
Hyperkalemia	1.00	2.10	2.00	2.60	1.70	2.00	2.10	2.50	3.10	1.40	2.30
Pericarditis	0.30	0.20	0.30	0.30	0.20	0.20	0.30	0.20	0.30	0.20	0.30
Atherosclerotic H.D.	.	1.10	0.90	1.60	0.60	1.00	4.30	4.30	5.70	3.00	4.30
Cardiomyopathy	0.80	1.80	1.90	1.90	1.90	1.90	5.60	4.30	6.50	3.80	5.00
Cardiac arrhythmia	2.00	3.70	4.70	4.80	3.70	4.10	8.70	8.30	10.50	6.50	8.50
Cardiac arrest	7.70	18.90	20.30	21.20	18.90	19.50	39.00	38.90	43.10	35.30	39.00
Valvular heart disease	0.30	0.80	0.70	0.90	0.70	0.70	0.80	1.10	1.00	0.80	0.90
Pulmonary edema	.	0.80	0.80	0.80	0.80	0.80	1.30	1.50	1.60	1.20	1.40
AIDS	0.80	4.00	3.30	0.70	6.60	3.70	1.10	0.50	0.10	1.70	0.90
Cachexia	0.30	0.40	0.50	0.60	0.30	0.40	0.90	1.30	1.50	0.70	1.10
Cerebrovascular disease	3.80	4.70	5.40	5.50	4.60	5.00	8.60	11.60	10.50	9.20	9.90
G.I. hemorrhage	.	0.50	0.60	0.50	0.70	0.60	1.40	1.30	1.30	1.30	1.30
Other hemorrhage	1.50	1.50	1.70	1.50	1.70	1.60	1.50	2.00	1.50	2.00	1.70
Septicemia	4.90	8.70	13.20	10.50	10.80	10.50	20.10	24.80	23.70	21.20	22.20
Pulmonary infection	0.50	1.40	1.20	1.30	1.50	1.40	2.90	2.60	3.40	2.00	2.80
Viral infection	.	0.40	0.20	0.20	0.40	0.30	0.30	0.30	0.30	0.20	0.30
Other infection	0.50	0.40	0.80	0.80	0.50	0.60	0.80	1.30	1.20	0.80	1.00
Malignant disease	1.00	1.50	1.90	2.30	1.20	1.70	6.40	5.70	7.60	5.10	6.10
Other cause	11.50	18.60	21.10	22.00	18.70	19.60	33.80	35.70	41.80	28.70	34.60
Unknown cause	3.10	9.20	9.60	9.20	9.80	9.30	14.30	14.40	14.50	14.70	14.30
All	40.70	85.60	95.50	95.10	88.90	89.60	170.90	177.70	199.20	152.20	174.00
Years at risk	3,908	71,213	48,710	50,426	59,879	119,923	146,923	120,711	124,615	120,909	267,634
Patients	4,866	83,354	57,334	59,862	69,515	140,688	181,200	149,697	159,312	144,638	330,897

  

	65+		All			All						
	Male	Female	White	Black	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	32.00	27.40	32.10	24.80	29.60	20.50	19.20	24.10	14.60	15.90	19.50	19.90
Hyperkalemia	5.70	5.60	7.40	2.40	5.60	3.50	3.90	5.20	1.80	2.90	2.80	3.70
Pericarditis	0.30	0.30	0.30	0.40	0.30	0.30	0.30	0.30	0.30	0.40	0.20	0.30
Atherosclerotic H.D.	13.90	12.60	16.00	8.70	13.20	7.50	7.70	10.40	4.40	5.10	5.30	7.60
Cardiomyopathy	16.90	11.60	17.50	8.30	14.20	9.30	7.40	11.50	4.80	5.90	5.80	8.40
Cardiac arrhythmia	17.80	15.50	18.70	13.20	16.60	11.30	11.10	13.90	8.10	8.20	8.90	11.20
Cardiac arrest	78.30	75.80	79.90	73.00	77.00	50.60	53.30	58.80	44.20	43.20	46.60	51.90
Valvular heart disease	2.10	2.20	2.60	1.30	2.10	1.30	1.50	1.80	1.00	0.70	0.80	1.40
Pulmonary edema	3.10	3.50	4.20	1.80	3.30	1.90	2.30	2.80	1.30	2.60	1.00	2.10
AIDs	0.10	0.10	<0.05	0.20	0.10	1.30	0.70	0.10	2.30	0.50	<0.05	1.00
Cachexia	4.00	4.20	5.10	2.60	4.10	2.00	2.60	3.20	1.30	1.20	1.60	2.30
Cerebrovascular disease	14.70	20.20	18.00	16.50	17.50	10.30	14.70	13.60	10.60	13.70	12.20	12.30
G.I. hemorrhage	2.90	2.80	2.90	2.70	2.80	1.80	1.90	2.00	1.60	1.00	2.50	1.80
Other hemorrhage	2.80	3.20	3.10	2.90	3.00	2.00	2.50	2.30	2.20	1.50	2.10	2.30
Septicemia	34.00	39.40	35.50	40.10	36.80	23.30	29.90	27.80	25.20	24.10	18.50	26.40
Pulmonary infection	11.00	7.40	10.50	6.00	9.20	5.80	4.60	6.80	3.20	5.50	5.80	5.30
Viral infection	0.40	0.30	0.30	0.40	0.40	0.30	0.30	0.30	0.30	0.40	0.50	0.30
Other infection	1.40	1.70	1.70	1.50	1.60	1.00	1.40	1.40	1.00	1.20	0.70	1.20
Malignant disease	16.50	11.00	15.10	12.10	13.70	9.50	7.60	10.70	6.60	4.70	4.70	8.60
Other cause	76.40	76.70	88.50	58.20	76.60	47.80	52.70	62.90	36.30	36.40	29.00	50.10
Unknown cause	25.90	26.30	26.90	26.50	26.10	17.90	19.20	20.10	17.50	18.30	8.00	18.50
All	360.20	347.70	386.10	303.60	353.80	229.30	244.80	280.00	188.50	193.20	176.60	236.50
Years at risk	146,720	152,764	187,126	91,831	299,484	366,983	323,966	364,089	274,153	12,812	27,394	690,949
Patients	200,289	205,562	261,276	117,988	405,851	467,468	414,834	482,861	334,012	15,608	33,858	882,302

Age is determined on January 1 of each calendar year.

\*All\* category includes patients of other &amp; unknown races.

U.S. only; patients of unknown age or gender are excluded so that rates can be calculated appropriately.

." Zero values in this cell.

On our website: death rates by primary cause of death for diabetic &amp; non-diabetic patients, &amp; by specific cause of death (H.15.1, H.15.2, &amp; H.a.1-4)

Table H.16

**Death Rates by Primary Cause of Death: CAPD/CCPD Patients, Unadjusted**

per 1,000 patient years at risk, period prevalent patients, 1999-2001 combined

	0-19		20-44					45-64					All
	All	Male	Female	White	Black	All	Male	Female	White	Black	All		
Acute M.I.	1.10	6.80	4.10	6.60	4.20	5.30	21.30	17.70	22.40	14.50	19.50		
Hyperkalemia	0.40	1.60	0.70	1.80	0.30	1.10	1.40	2.20	2.20	1.00	1.80		
Pericarditis	0.40	0.20	0.10	0.20	0.10	0.20	0.30	0.10	0.20	0.20	0.20		
Atherosclerotic H.D.	.	1.20	0.80	1.30	0.30	1.00	6.30	4.40	6.60	3.40	5.30		
Cardiomyopathy	1.10	1.80	1.60	2.00	1.50	1.70	8.80	6.80	9.70	4.80	7.80		
Cardiac arrhythmia	1.10	4.10	3.70	5.00	2.70	3.90	9.00	9.50	10.00	7.60	9.30		
Cardiac arrest	8.30	17.20	14.60	16.60	16.50	15.80	39.10	35.60	39.40	36.70	37.40		
Valvular heart disease	.	0.80	0.20	0.40	0.60	0.50	0.40	0.60	0.60	0.60	0.50		
Pulmonary edema	0.40	0.60	0.70	0.60	0.60	0.70	0.90	1.00	1.30	0.30	1.00		
AIDS	.	2.20	0.70	0.20	3.60	1.40	0.50	0.30	0.10	1.10	0.40		
Cachexia	.	0.90	0.80	1.20	0.30	0.80	1.80	1.90	2.00	1.80	1.80		
Cerebrovascular disease	1.80	3.10	3.90	3.20	4.80	3.50	7.60	11.70	10.70	8.10	9.60		
G.I. hemorrhage	0.40	0.80	0.30	0.50	0.60	0.50	2.30	1.40	1.70	2.30	1.80		
Other hemorrhage	0.70	1.20	0.40	0.50	1.20	0.80	0.90	1.10	1.30	0.50	1.00		
Septicemia	7.60	13.90	15.10	15.10	13.60	14.50	24.80	33.30	30.10	29.10	29.00		
Pulmonary infection	0.70	0.90	1.90	1.70	1.30	1.40	2.80	2.60	3.10	1.60	2.70		
Viral infection	0.40	0.10	0.10	0.20	.	0.10	0.40	0.30	0.30	0.30	0.30		
Other infection	0.70	0.60	1.10	1.20	0.70	0.90	1.90	1.70	1.90	1.80	1.80		
Malignant disease	1.10	1.00	1.00	1.20	1.00	1.00	3.80	3.70	4.50	2.60	3.80		
Other cause	13.00	17.40	15.50	16.70	17.40	16.40	32.50	36.90	39.20	29.40	34.70		
Unknown cause	6.10	7.10	6.50	6.90	7.50	6.80	14.20	13.90	14.20	14.90	14.00		
All	45.00	83.60	73.50	83.00	78.90	78.20	180.90	186.60	201.30	162.80	183.70		
Years at risk	2,778	9,233	10,597	11,238	6,677	19,830	15,900	15,524	19,393	9,237	31,423		
Patients	3,340	10,826	12,211	13,232	7,621	23,037	19,780	19,229	24,611	11,049	39,009		

  

	65+		All					All					All
	Male	Female	White	Black	All	Male	Female	White	Black	N. Am.	Asian	All	
Acute M.I.	35.00	30.90	34.70	32.30	33.20	21.00	16.30	21.90	13.30	15.50	12.50	18.70	
Hyperkalemia	4.00	4.30	5.00	0.60	4.10	2.20	2.20	2.90	0.70	4.10	0.80	2.20	
Pericarditis	0.20	0.30	0.30	0.30	0.20	0.20	0.20	0.20	0.20	0.80	0.30	0.20	
Atherosclerotic H.D.	18.60	15.10	18.40	11.60	17.00	8.40	5.80	9.00	3.50	9.80	3.30	7.10	
Cardiomyopathy	32.40	20.30	30.70	13.60	27.00	13.80	8.40	14.40	4.90	8.20	5.70	11.10	
Cardiac arrhythmia	21.10	17.80	21.10	16.50	19.70	11.10	9.50	12.10	7.10	9.80	5.50	10.30	
Cardiac arrest	74.30	74.40	75.00	72.70	74.40	42.90	38.10	44.50	34.60	23.70	31.90	40.60	
Valvular heart disease	1.80	2.80	2.60	0.60	2.20	0.90	1.00	1.20	0.60	.	0.50	1.00	
Pulmonary edema	2.30	3.20	2.90	1.90	2.70	1.20	1.50	1.60	0.70	1.60	1.10	1.30	
AIDs	0.20	.	0.10	0.30	0.10	0.80	0.30	0.10	1.80	.	.	0.60	
Cachexia	4.90	9.40	7.50	4.80	6.90	2.40	3.30	3.50	1.70	1.60	1.60	2.90	
Cerebrovascular disease	17.50	29.10	24.10	19.40	22.60	9.20	13.40	13.00	8.60	5.70	5.70	11.20	
G.I. hemorrhage	2.50	2.70	2.60	1.90	2.60	1.90	1.30	1.70	1.60	0.80	1.90	1.60	
Other hemorrhage	1.70	1.30	1.70	0.60	1.50	1.20	0.90	1.20	0.80	.	0.80	1.10	
Septicemia	43.60	61.20	51.10	52.60	51.40	27.10	33.90	32.50	26.70	32.70	19.60	30.40	
Pulmonary infection	9.50	7.70	9.10	6.50	8.70	4.20	3.60	4.60	2.30	1.60	4.10	3.90	
Viral infection	0.20	0.30	0.10	0.60	0.20	0.30	0.20	0.20	0.30	.	0.50	0.20	
Other infection	2.70	4.30	3.30	2.30	3.40	1.80	2.10	2.10	1.50	1.60	2.20	1.90	
Malignant disease	13.60	8.40	12.60	7.10	11.30	5.90	4.00	6.20	2.70	3.30	1.10	5.00	
Other cause	80.30	87.50	88.30	63.00	83.50	42.10	42.30	49.00	29.90	27.00	28.60	42.20	
Unknown cause	21.40	23.10	22.50	22.60	22.20	14.30	13.70	14.80	13.60	11.40	6.00	14.00	
All	387.80	404.10	413.70	332.00	395.10	213.00	202.10	236.80	157.00	159.40	133.90	207.70	
Years at risk	11,206	8,928	15,656	3,097	20,134	37,792	36,373	48,087	19,681	1,223	3,667	74,165	
Patients	15,414	12,289	21,863	4,029	27,703	47,768	45,321	61,885	23,488	1,486	4,375	93,089	

Age is determined on January 1 of each calendar year.

\*All\* category includes patients of other &amp; unknown races.

U.S. only; patients of unknown age or gender are excluded so that rates can be calculated appropriately.

. = Zero values in this cell.

On our website: death rates by primary cause of death for diabetic &amp; non-diabetic patients, &amp; by specific cause of death (H.16.1, H.16.2, &amp; H.a.1-4)

Table H.17

**Death Rates by Primary Cause of Death: Transplant Patients, Unadjusted**

per 1,000 patient years at risk, period prevalent patients, 1999-2001 combined

	0-19		20-44				45-64					All
	All	Male	Female	White	Black	All	Male	Female	White	Black		
Acute M.I.	.	0.60	0.60	0.70	0.60	0.60	2.10	1.40	1.80	2.10	1.80	
Hyperkalemia	.	<0.05	0.10	<0.05	.	<0.05	<0.05	0.10	0.10	<0.05	0.10	
Pericarditis	.	<0.05	<0.05	<0.05	<0.05	<0.05	.	0.10	<0.05	0.10	<0.05	
Atherosclerotic H.D.	.	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.10	0.20	
Cardiomyopathy	.	0.10	0.10	0.10	0.20	0.10	0.50	0.30	0.50	0.30	0.40	
Cardiac arrhythmia	0.20	0.20	0.10	0.20	0.30	0.20	0.60	0.80	0.60	1.10	0.70	
Cardiac arrest	0.70	1.10	1.00	1.00	1.40	1.00	2.30	2.20	2.20	3.10	2.20	
Valvular heart disease	.	0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	<0.05	
Pulmonary edema	.	.	0.10	<0.05	.	<0.05	0.10	0.10	0.10	0.10	0.10	
AIDS	.	<0.05	<0.05	<0.05	<0.05	<0.05	.	.	.	.	.	
Cachexia	.	<0.05	<0.05	<0.05	.	<0.05	0.10	0.10	0.10	<0.05	0.10	
Cerebrovascular disease	0.60	0.30	0.60	0.50	0.40	0.40	0.60	0.90	0.70	0.90	0.70	
G.I. hemorrhage	.	<0.05	0.10	<0.05	0.10	<0.05	0.10	0.10	0.10	0.20	0.10	
Other hemorrhage	0.10	0.10	0.20	0.10	0.20	0.10	0.20	0.30	0.20	0.40	0.20	
Septicemia	0.20	0.70	0.90	0.80	0.80	0.80	1.60	2.20	1.80	2.10	1.80	
Pulmonary infection	0.10	0.30	0.10	0.20	0.30	0.20	0.70	0.60	0.60	0.60	0.60	
Viral infection	0.20	<0.05	<0.05	<0.05	.	<0.05	0.20	0.10	0.10	0.30	0.10	
Other infection	.	0.10	<0.05	0.10	<0.05	0.10	0.10	0.20	0.10	<0.05	0.10	
Malignant disease	0.50	0.60	0.40	0.60	0.50	0.50	2.00	1.60	1.90	1.80	1.80	
Other cause	4.20	10.00	10.60	10.40	11.20	10.30	29.00	25.20	26.90	32.60	27.50	
Unknown cause	0.20	1.00	0.80	0.80	1.50	0.90	2.20	1.50	1.90	2.30	1.90	
All	7.00	15.40	15.90	15.60	17.80	15.60	42.40	37.80	39.90	48.00	40.60	
Years at risk	12,650	68,558	50,047	89,367	21,379	118,605	81,367	53,537	99,893	25,354	134,904	
Patients	13,201	70,026	51,146	91,432	21,729	121,172	84,000	55,241	103,246	26,110	139,241	

  

	65+					All						
	Male	Female	White	Black	All	Male	Female	White	Black	N. Am.	Asian	All
Acute M.I.	3.90	1.80	3.20	2.60	3.10	1.60	1.00	1.40	1.50	1.10	0.70	1.40
Hyperkalemia	0.10	0.10	0.10	.	0.10	<0.05	0.10	0.10	<0.05	.	0.20	0.10
Pericarditis	.	0.10	<0.05	.	<0.05	<0.05	0.10	<0.05	0.10	0.30	.	<0.05
Atherosclerotic H.D.	1.10	0.70	0.90	1.10	1.00	0.20	0.20	0.20	0.20	0.80	0.10	0.20
Cardiomyopathy	0.80	0.50	0.70	0.70	0.70	0.30	0.20	0.30	0.30	.	.	0.30
Cardiac arrhythmia	1.00	0.60	0.90	1.10	0.90	0.50	0.50	0.40	0.70	.	0.10	0.50
Cardiac arrest	4.60	2.90	3.60	5.70	3.90	2.00	1.70	1.80	2.50	1.90	1.10	1.80
Valvular heart disease	0.40	0.20	0.30	0.70	0.30	0.10	<0.05	0.10	0.10	.	.	0.10
Pulmonary edema	0.40	0.40	0.50	.	0.40	0.10	0.10	0.10	<0.05	.	.	0.10
AIDS	.	.	.	.	.	<0.05	<0.05	<0.05	<0.05	.	.	<0.05
Cachexia	0.20	0.10	0.20	.	0.20	0.10	0.10	0.10	<0.05	.	.	0.10
Cerebrovascular disease	2.00	2.20	2.10	2.40	2.10	0.60	0.90	0.70	0.80	1.10	0.30	0.70
G.I. hemorrhage	0.20	0.10	0.10	0.20	0.10	0.10	0.10	0.10	0.10	0.50	.	0.10
Other hemorrhage	0.50	0.40	0.50	0.70	0.50	0.20	0.20	0.20	0.30	0.30	0.20	0.20
Septicemia	3.30	3.70	3.60	3.30	3.50	1.30	1.80	1.50	1.60	4.00	0.80	1.50
Pulmonary infection	2.30	0.90	1.90	1.50	1.70	0.60	0.40	0.50	0.50	1.10	0.30	0.50
Viral infection	0.60	0.20	0.50	0.20	0.40	0.20	0.10	0.10	0.20	0.30	0.10	0.10
Other infection	0.50	0.40	0.50	0.20	0.50	0.10	0.10	0.10	0.10	0.30	0.10	0.10
Malignant disease	5.60	2.50	4.50	3.50	4.30	1.70	1.10	1.60	1.40	1.90	1.00	1.50
Other cause	72.20	56.50	65.80	73.00	65.90	24.60	21.20	23.00	26.40	20.20	16.60	23.20
Unknown cause	5.30	3.00	4.40	5.10	4.40	1.90	1.30	1.60	2.20	2.40	0.90	1.70
All	104.90	77.30	94.30	102.20	93.80	36.30	31.10	33.90	39.10	36.10	22.40	34.20
Years at risk	16,829	11,227	21,827	4,532	28,056	174,508	119,707	220,696	53,369	3,707	12,342	294,215
Patients	17,825	11,754	23,027	4,784	29,579	179,954	123,239	227,743	54,808	3,803	12,619	303,193

Age is determined on January 1 of each calendar year.

\*All\*category includes patients of other &amp; unknown races.

U.S. only; patients of unknown age or gender are excluded so that rates can be calculated appropriately.

." Zero values in this cell.

On our website: death rates by primary cause of death for diabetic &amp; non-diabetic patients, &amp; by specific cause of death (H.17.1, H.17.2)

Table H.18

**Death Rates by Cause of Withdrawal, Unadjusted***per 1,000 patient years at risk, all period prevalent dialysis patients, 1999-2001 combined*

	0-19					20-44					45-64					
	All	Male	Female	White	Black	All	Male	Female	White	Black	All	Male	Female	White	Black	All
Withdraw, access failure	0.10	0.30	0.30	0.40	0.30	0.30	0.50	0.90	0.80	0.60	0.70	0.50	0.90	0.80	0.60	0.70
Withdraw, transplant failure	0.30	<0.05	0.10	0.10	<0.05	0.10	0.10	0.10	0.10	<0.05	0.10	0.10	0.10	<0.05	0.10	0.10
Withdraw, failure to thrive	1.10	2.40	3.70	4.40	1.80	3.00	7.80	10.20	13.30	4.40	8.90	7.80	10.20	13.30	4.40	8.90
Withdraw, med. complication	2.80	3.40	5.40	5.50	3.20	4.20	9.00	11.90	14.30	6.40	10.30	9.00	11.90	14.30	6.40	10.30
Withdraw, other	1.30	1.80	1.90	2.30	1.50	1.80	4.20	5.10	6.60	2.60	4.60	4.20	5.10	6.60	2.60	4.60
Did not withdraw	30.20	69.20	71.10	71.00	72.50	70.00	134.30	135.10	145.80	125.40	134.60	134.30	135.10	145.80	125.40	134.60
Missing data	5.60	8.50	8.90	8.90	8.80	8.70	17.10	16.40	19.60	14.40	16.80	17.10	16.40	19.60	14.40	16.80
Other cause	.	.	.	.	.	.	<0.05	.	<0.05	.	<0.05	<0.05	.	<0.05	.	<0.05
All	41.50	85.60	91.40	92.60	88.00	88.10	173.00	179.70	200.50	153.80	176.00	173.00	179.70	200.50	153.80	176.00
Years at risk	7,088	81,781	60,516	63,198	67,349	142,297	165,014	137,929	146,365	131,319	302,943	165,014	137,929	146,365	131,319	302,943
Patients	8,651	95,708	70,906	74,814	78,052	166,614	203,840	171,154	187,052	157,209	374,994	203,840	171,154	187,052	157,209	374,994

  

	65+				
	Male	Female	White	Black	All
Withdraw, access failure	1.30	2.20	1.90	1.60	1.80
Withdraw, transplant failure	<0.05	0.10	0.10	<0.05	0.10
Withdraw, failure to thrive	35.40	38.30	47.30	18.20	36.80
Withdraw, med. complication	26.60	29.20	35.00	14.90	27.90
Withdraw, other	14.30	14.60	18.20	7.80	14.50
Did not withdraw	246.70	230.50	244.10	232.00	238.60
Missing data	38.40	36.80	42.10	31.00	37.60
Other cause	<0.05	.	<0.05	<0.05	<0.05
All	362.80	351.80	388.60	305.60	357.20
Years at risk	160,726	164,258	206,873	95,893	324,985
Patients	219,948	221,795	289,403	123,463	441,743

  

	All								
	Male	Female	White	Black	N. Am.	Asian	DM	Non-DM	All
Withdraw, access failure	0.80	1.40	1.30	0.80	1.40	0.70	1.20	0.90	1.10
Withdraw, transplant failure	<0.05	0.10	0.10	<0.05	.	0.10	0.10	0.10	0.10
Withdraw, failure to thrive	17.40	21.60	28.60	8.20	12.20	11.30	21.80	18.10	19.40
Withdraw, med. complication	14.70	18.50	23.00	8.40	15.30	9.70	19.80	14.50	16.50
Withdraw, other	7.70	8.80	11.60	4.00	6.90	4.20	9.10	7.70	8.20
Did not withdraw	164.30	166.40	181.80	147.10	143.50	132.80	197.70	144.50	165.30
Missing data	23.60	24.20	28.90	18.40	11.90	14.00	24.90	23.00	23.90
Other cause	<0.05	.	<0.05	<0.05	.	.	<0.05	<0.05	<0.05
All	228.60	241.10	275.30	187.00	191.10	172.80	274.60	208.90	234.50
Years at risk	411,312	366,001	420,409	296,889	14,142	31,551	304,063	457,744	777,313
Patients	524,103	467,899	556,139	361,519	17,244	38,877	401,666	572,264	992,002

Age is determined on January 1 of each calendar year.

\*All\* category includes patients of other &amp; unknown races.

U.S. only; patients of unknown age or gender are excluded so that rates can be calculated appropriately.

." Zero values in this cell.

Table H.19  
**Adjusted First-Year Death Rates**  
*per 1,000 patient years at risk, incident patients*

<b>DIALYSIS</b>	<b>1990</b>	<b>1991</b>	<b>1992</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>
0-19	85.4	114.5	105.0	99.7	63.0	81.5	95.4	83.0	97.1	87.7	102.5
20-44	111.7	122.7	116.7	120.8	116.6	125.2	112.1	102.8	107.3	104.2	104.4
45-64	188.4	186.7	175.9	167.7	165.4	169.9	164.8	157.0	168.2	158.7	161.6
65-74	308.3	312.5	305.8	283.6	292.6	281.9	275.5	285.8	288.9	286.0	283.0
75+	457.9	456.5	465.9	444.5	431.7	439.2	434.4	449.2	460.7	456.1	456.6
Male	271.9	273.3	268.7	248.9	250.0	252.0	241.1	239.6	245.8	236.9	240.6
Female	249.4	253.5	245.8	240.6	236.5	236.6	234.3	237.7	247.5	245.4	242.5
White	294.4	298.2	290.1	274.4	267.2	265.0	256.9	264.1	268.0	260.0	260.7
Black	209.8	213.4	208.7	202.0	208.8	216.3	209.7	201.9	218.2	218.4	222.0
Other race	175.7	161.7	173.8	148.0	176.6	185.4	194.4	176.6	189.4	182.5	169.3
†Hispanic‡							182.5	188.2	186.2	189.7	175.1
†Non-Hispanic‡							246.1	251.7	262.4	260.6	268.1
Diabetes	298.3	289.4	281.9	253.0	256.8	260.4	253.4	257.0	266.2	253.4	251.0
Hypertension	235.1	244.6	243.0	231.7	231.3	219.4	218.3	224.4	230.4	228.7	228.7
Glomerulonephritis	182.9	197.5	174.9	162.1	175.4	168.4	153.4	158.4	155.7	159.7	159.6
Other cause	249.5	257.3	257.1	257.9	252.8	280.1	283.6	270.8	285.1	285.4	297.9
All	260.7	263.4	257.3	244.5	243.1	244.3	237.6	238.5	246.4	240.7	241.3
<b>HEMODIALYSIS</b>											
0-19	69.6	100.0	88.9	101.5	68.6	83.1	91.0	86.6	104.1	85.6	106.2
20-44	115.6	127.8	120.6	127.2	121.6	133.7	120.6	108.1	114.4	110.6	111.7
45-64	188.9	187.6	178.5	167.1	167.8	172.4	168.6	161.0	171.5	162.8	165.1
65-74	299.5	304.4	299.0	280.4	289.6	280.7	281.6	289.5	291.9	289.1	288.5
75+	444.6	437.0	454.9	421.8	420.9	440.2	442.9	446.2	464.1	457.4	460.1
Male	268.8	269.6	267.1	245.6	248.5	254.4	246.9	243.5	248.4	240.5	244.2
Female	244.2	247.1	242.2	234.9	235.3	238.2	239.9	239.0	252.4	248.9	247.8
White	291.2	293.3	288.5	269.7	266.4	267.2	262.9	267.5	271.9	263.7	265.5
Black	204.2	207.0	204.3	196.9	206.6	216.2	214.6	203.9	220.7	221.6	224.9
Other race	171.0	167.5	172.5	148.9	173.1	189.6	195.9	174.8	191.5	181.4	170.9
†Hispanic‡							183.6	186.9	188.0	194.6	179.1
†Non-Hispanic‡							255.2	256.6	268.4	265.9	274.8
Diabetes	293.2	282.9	275.9	244.2	249.3	259.1	255.4	254.4	268.3	255.3	252.4
Hypertension	231.4	241.2	240.5	227.3	231.5	220.5	223.9	228.5	232.4	231.8	233.7
Glomerulonephritis	183.5	198.7	176.8	164.4	179.3	176.0	158.5	165.3	164.7	168.3	168.3
Other cause	248.8	253.4	261.5	259.9	265.2	290.7	299.8	282.5	293.7	292.4	306.7
All	256.4	258.2	254.5	239.9	241.7	246.1	243.2	241.1	250.0	244.2	245.6

Reference cohort is 1996 incident ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis. Death rates for one of the four variables is adjusted for the remaining three. The age of the incident patient is determined as of the date of ESRD initiation. The 90-day rule has been applied. U.S. patients only; patients of unknown age or gender, or age >110, are excluded so that rates can be calculated appropriately. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. ‡Hispanic & non-Hispanic death rates are unadjusted.

Table H.21 (continued)  
**Adjusted Third-Year Death Rates**  
*per 1,000 patient years at risk, incident patients*

CAPD/CCPD	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
0-19	83.0	107.3	176.1	73.1	24.8	137.0	25.4	66.3	96.2	97.9	51.9
20-44	158.8	143.2	130.3	132.2	166.8	151.9	114.5	97.1	106.4	84.0	105.8
45-64	286.3	248.5	253.3	238.6	231.5	232.9	223.8	221.9	201.1	205.7	169.0
65-74	335.4	451.7	413.0	370.4	355.1	373.5	417.8	282.0	307.7	355.2	359.7
75+	471.2	486.5	528.0	510.9	611.8	451.0	597.6	531.9	497.9	480.3	500.3
Male	377.2	349.0	369.0	338.8	359.2	325.6	331.3	287.8	290.8	308.1	289.4
Female	337.5	360.2	322.5	308.2	305.0	319.6	317.0	275.1	260.5	250.2	238.4
White	404.6	418.0	389.8	368.2	386.9	366.7	379.5	318.5	315.8	310.9	287.9
Black	289.0	246.1	299.9	264.3	255.4	248.6	245.5	227.4	200.7	218.5	219.5
Other race	320.6	240.8	167.8	203.5	185.6	270.4	190.0	213.9	230.7	261.3	255.8
†Hispanic‡									178.1	144.0	165.5
†Non-Hispanic‡									207.6	216.0	204.7
Diabetes	522.6	489.7	472.1	449.8	425.2	447.0	427.4	403.0	381.4	360.8	362.3
Hypertension	312.3	280.8	271.1	250.5	306.1	251.9	285.4	237.0	217.3	247.4	178.4
Glomerulonephritis	193.8	229.0	234.1	192.0	183.1	238.7	201.8	150.5	167.4	184.9	214.7
Other cause	233.5	240.0	248.6	239.3	249.9	209.1	225.2	173.1	185.4	200.1	188.2
All	358.4	352.3	346.4	324.7	332.5	322.4	323.8	281.1	275.7	280.3	264.2
<b>TRANSPLANT</b>											
0-17	9.3	4.6	2.4	8.9	18.9	5.8	2.1	5.6	11.5	11.8	2.0
18-34	26.8	24.6	25.0	26.0	22.2	27.6	22.7	18.1	24.3	18.8	18.7
35-49	51.5	35.3	42.2	33.8	35.7	34.8	27.5	27.3	28.9	28.5	24.4
50-64	62.7	67.7	53.7	62.9	52.3	64.5	57.1	53.4	44.6	47.0	47.2
65+	98.5	115.2	94.8	75.7	98.2	91.0	91.6	87.0	78.4	94.2	80.6
Male	105.9	81.6	90.3	87.6	76.6	85.0	67.7	65.8	63.1	61.0	63.2
Female	78.2	84.4	65.4	63.3	72.8	74.3	69.4	62.6	62.8	66.3	50.4
White	89.5	81.8	86.5	72.7	69.8	83.8	65.7	64.9	57.9	61.0	61.0
Black	106.7	85.3	66.3	87.8	88.4	69.0	69.9	66.2	69.5	64.9	50.3
Other race	79.8	56.7	34.5	77.3	59.8	69.5	67.5	26.5	66.5	59.8	39.9
†Hispanic‡									18.6	18.6	20.5
†Non-Hispanic‡									30.8	31.7	30.1
Diabetes	109.3	87.4	96.9	78.2	94.7	98.1	67.4	66.8	67.5	75.8	70.5
Hypertension	83.0	77.6	58.0	54.5	53.9	55.5	57.0	57.3	61.6	47.7	43.5
Glomerulonephritis	49.7	45.8	51.0	60.8	44.9	54.8	61.2	43.7	39.2	38.5	47.8
Other cause	73.7	65.2	60.5	64.5	56.2	60.1	49.9	50.7	46.5	49.2	37.6
All	94.8	82.6	80.1	77.7	74.9	80.4	68.3	64.3	62.7	62.9	57.9

Reference cohort is 1996 incident ESRD patients. Overall death rates are adjusted for age, gender, race, & primary diagnosis.

Death rate for one of the four variables is adjusted for the remaining three.

The age of the incident patient is determined as of the date of ESRD initiation. The 90-day rule has been applied.

U.S. patients only; patients of unknown age or gender, or age >110, are excluded so that rates can be calculated appropriately.

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

‡Hispanic & non-Hispanic death rates are unadjusted.