



# Section H

## Mortality & causes of death



Total patient deaths are by age, gender, race, ethnicity, primary diagnosis, & patient vintage

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

First-, second, & third-year mortality rates are per 1,000 patient years at risk, incident patients, by age, gender, race, ethnicity, & primary diagnosis

**Total patient deaths (H.1–27, odd-numbered tables)**

Patient age is determined as of the date of death.

**Annual mortality rates (H.2–28, even-numbered tables)**

Adjusted rates use the 2005 ESRD cohort as reference (represented by outlined columns in tables).

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

rates for one of the five variables are adjusted for the remaining four.

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

Patient age is determined on January 1 of each calendar year. Patients of unknown age, gender are excluded. Includes U.S. & territories; no unknown or foreign states.

**First-, second-, & third-year mortality rates (H.32–46)**

Adjusted rates use the 2005 ESRD cohort as reference (represented by outlined columns in tables). The 90-day rule has been applied.

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

Hispanic & non-Hispanic mortality rates are unadjusted.

The age of the incident patient is determined as of the date of ESRD initiation. U.S. patients only; patients of unknown age or gender, or of age >110, are excluded.

**The following symbols are used throughout this reference section**

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

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

**Data for some early years are omitted from the printed tables; complete data are available on our website, at [www.usrds.org](http://www.usrds.org).**



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Total patient deaths: ESRD patients

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Annual mortality rates: ESRD patients

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Total patient deaths: dialysis patients

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Annual mortality rates: dialysis patients

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

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

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Total patient deaths: dialysis patients, on transplant wait list

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Annual mortality rates: dialysis patients, on transplant wait list

**Table H.9 • 630**

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

**Table H.10 • 631**

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

**Table H.11 • 632**

Total patient deaths: hemodialysis patients

**Table H.12 • 633**

Annual mortality rates: hemodialysis patients

**Table H.13 • 634**

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

**Table H.14 • 635**

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

**Table H.15 • 636**

Total patient deaths: hemodialysis patients, on transplant wait list

**Table H.16 • 637**

Annual mortality rates: hemodialysis patients, on transplant wait list

**Table H.17 • 638**

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

**Table H.18 • 639**

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

**Table H.19 • 640**

Total patient deaths: CAPD/CCPD patients

**Table H.20 • 641**

Annual mortality rates: CAPD/CCPD patients

**Table H.21 • 642**

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

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

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

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

**Table H.25 • 646**

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

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

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Mortality rates by primary cause of mortality, unadjusted

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Mortality rates by cause of withdrawal, unadjusted

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Expected remaining lifetimes (years) of the general U.S. population, &amp; of prevalent dialysis &amp; transplant patients

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Third-year mortality rates, ESRD patients

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Third-year mortality rates, first transplant patients



Table H.1

**Total patient deaths: ESRD patients**

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	*	25	57	38	30	37	30	40	38	52	38	32	38	41	39	35
5-9	15	15	27	16	18	13	13	19	12	20	*	21	13	*	12	*
10-14	28	23	37	25	23	24	16	33	17	28	32	24	29	20	19	
15-19	47	46	70	61	52	55	50	56	53	55	52	77	56	73	64	40
20-29	345	412	564	591	580	545	520	542	533	585	611	577	580	596	593	558
30-39	792	1,213	1,859	2,332	2,328	2,234	2,176	2,297	2,189	2,253	2,232	2,168	2,104	2,054	2,010	2,058
40-49	1,125	1,717	2,861	4,529	4,691	4,853	4,982	5,331	5,482	5,822	5,964	5,987	6,027	6,096	5,964	5,826
50-59	2,179	3,456	4,709	7,159	7,587	8,150	8,816	9,913	10,346	11,126	11,580	12,178	12,520	12,806	13,577	13,339
60-64	1,470	2,817	4,063	5,654	5,909	6,199	6,631	7,205	7,407	7,771	7,871	8,578	8,791	8,784	9,111	9,218
65-69	1,731	3,212	5,396	7,754	8,137	8,588	8,953	9,293	9,631	10,003	10,005	10,377	10,507	10,601	10,654	10,848
70-79	2,215	5,270	9,606	16,454	18,012	19,092	20,895	22,611	23,295	24,179	24,772	25,078	25,246	25,373	25,305	24,929
80-84	383	1,133	2,525	5,046	5,644	6,337	7,066	7,869	8,418	9,186	9,853	10,287	10,803	11,287	11,531	11,646
85+	138	451	1,164	2,627	3,018	3,623	4,199	4,882	5,422	5,937	6,647	7,209	7,506	8,235	8,832	9,287
0-19	100	109	191	140	123	129	109	148	120	144	128	162	131	152	135	103
20-44	1,602	2,353	3,731	4,947	4,926	4,804	4,830	5,037	4,987	5,116	5,216	5,094	4,995	4,959	4,865	4,793
45-64	4,309	7,262	10,325	15,318	16,169	17,177	18,295	20,251	20,970	22,441	23,042	24,394	25,027	25,377	26,390	26,206
65-74	3,061	6,250	10,590	16,650	17,640	18,496	19,666	20,623	21,220	21,893	22,249	22,510	22,761	22,841	22,748	22,868
75+	1,406	3,816	8,101	15,231	17,171	19,144	21,447	24,032	25,546	27,412	29,028	30,441	31,301	32,655	33,574	33,842
Male	5,946	10,978	17,683	27,356	29,420	31,023	33,530	36,422	38,002	40,379	41,886	43,924	45,190	46,465	47,581	48,046
Female	4,532	8,812	15,255	24,925	26,609	28,727	30,817	33,669	34,840	36,625	37,777	38,672	39,025	39,517	40,129	39,766
Unknown	.	.	.	*	.	.	.	.	*	*	.	*	.	*	*	.
White	7,556	14,108	22,880	35,228	37,549	40,066	43,147	46,473	48,406	51,069	53,057	54,764	55,634	57,009	58,636	58,894
African American	2,653	5,187	9,113	15,066	15,960	16,848	18,082	20,045	20,670	22,034	22,493	23,521	24,117	24,366	24,605	24,440
Native American	30	157	364	561	652	680	692	788	903	873	936	964	945	977	954	953
Asian	14	187	492	1,180	1,420	1,548	1,703	1,928	1,917	2,124	2,242	2,418	2,522	2,683	2,771	2,943
Other/unknown	225	151	89	251	448	608	723	857	947	906	935	934	997	949	746	582
†Hispanic					4,377	5,209	5,895	6,520	7,198	7,824	8,212	8,786	9,068	9,401	9,614	9,573
†Non-Hisp.					51,652	54,541	58,452	63,571	65,645	69,182	71,451	73,815	75,147	76,583	78,098	78,239
Diabetes	1,239	5,065	10,859	20,495	22,962	25,070	28,061	31,180	32,364	34,801	35,876	37,351	38,182	39,007	40,076	39,890
Hypertension	1,209	4,823	9,921	16,113	16,298	17,408	18,339	19,646	20,443	21,454	22,289	23,137	23,772	24,333	24,739	24,883
Glomerulonephritis	983	2,406	4,133	5,360	5,624	5,782	5,911	6,241	6,318	6,365	6,480	6,561	6,328	6,347	6,184	6,066
Cystic kidney	264	624	901	1,167	1,184	1,232	1,229	1,311	1,323	1,457	1,423	1,419	1,427	1,444	1,466	1,498
Other urologic	150	595	993	1,264	1,521	1,612	1,715	1,910	2,053	2,136	2,240	2,293	2,379	2,267	1,865	1,768
Other cause	784	1,925	3,161	5,061	5,545	5,683	5,927	6,497	6,722	7,100	7,608	7,927	8,067	8,327	9,117	9,554
Unknown cause	981	1,481	1,713	2,007	2,110	2,230	2,425	2,478	2,747	2,950	3,015	3,129	3,270	3,386	3,382	3,388
Missing	4,868	2,871	1,257	819	785	733	740	828	873	743	732	784	790	873	883	765
<2 years	6,538	10,856	18,070	26,038	27,556	29,296	31,934	34,814	35,616	37,224	38,007	38,867	38,873	39,353	39,801	39,388
2-<5 years	3,228	5,627	8,816	15,920	17,088	17,788	18,791	20,109	20,854	22,191	23,206	23,972	24,585	24,826	25,192	24,827
5+ years	712	3,307	6,052	10,328	11,385	12,666	13,622	15,168	16,373	17,591	18,450	19,762	20,757	21,805	22,719	23,597
All	10,478	19,790	32,938	52,286	56,029	59,750	64,347	70,091	72,843	77,006	79,663	82,601	84,215	85,984	87,712	87,812
All with unknowns dropped	9,287	18,169	31,147	50,039	53,499	56,932	61,222	66,781	69,177	73,177	75,746	78,572	79,981	81,691	83,605	83,864

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Total patient deaths: ESRD patients, with unknowns dropped (H.1.1).



Table H.2

**Annual mortality rates: ESRD patients**

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	116.7	76.5	69.3	60.1	49.5	74.3	51.4	69.7	64.5	81.4	61.5	59.0	51.0	44.0	43.8	45.5
5-9	61.1	33.6	14.1	17.8	19.0	13.6	12.6	19.6	13.3	16.9	8.6	18.5	13.5	8.1	8.1	6.0
10-14	40.6	34.2	13.2	13.9	13.9	13.9	9.6	20.0	7.0	6.8	14.4	17.1	11.2	15.7	10.4	10.2
15-19	27.8	24.4	16.4	23.1	18.2	18.3	19.4	16.1	17.0	17.8	16.1	21.6	16.1	17.8	16.8	11.0
20-29	48.1	39.9	40.0	36.7	36.7	32.6	30.9	33.2	30.6	34.4	35.6	34.2	33.2	32.9	33.0	30.9
30-39	79.4	68.3	66.1	61.8	60.4	56.8	54.4	56.0	52.7	54.7	52.6	50.0	48.0	47.1	46.3	46.3
40-49	112.4	97.7	92.3	89.0	84.7	83.2	80.9	82.1	79.8	82.3	81.3	79.2	76.8	75.8	73.1	68.9
50-59	153.2	162.3	147.6	138.3	135.6	133.5	131.1	133.4	128.3	128.4	125.0	123.4	119.3	114.4	114.2	107.7
60-64	228.1	228.4	210.4	196.9	194.7	190.8	188.8	191.9	184.5	182.2	173.8	178.6	171.4	160.9	157.9	147.9
65-69	290.2	287.8	276.6	250.1	249.5	245.4	246.3	242.5	238.8	235.8	227.2	222.7	216.3	209.2	198.7	190.4
70-79	351.8	371.3	358.7	335.6	339.1	331.7	336.3	341.0	332.3	327.6	322.1	313.9	307.1	300.7	289.8	276.1
80-84	498.2	497.3	452.1	454.1	449.5	450.0	455.2	471.7	447.5	452.3	441.6	431.4	418.9	421.7	412.7	401.7
85+	612.8	598.5	567.8	539.8	552.3	570.2	574.4	575.0	576.1	561.6	567.1	550.2	533.4	537.6	526.0	523.8
Male	161.6	172.6	171.6	170.1	170.5	166.9	168.7	171.9	168.4	169.8	167.3	167.4	164.4	161.7	158.3	152.8
Female	159.5	170.8	176.3	182.5	182.2	184.0	185.9	191.4	187.1	188.5	186.2	183.2	177.8	174.1	170.5	163.1
White	164.5	180.1	182.7	186.7	187.5	187.0	190.0	192.8	189.1	189.6	188.2	186.1	181.0	178.6	175.8	169.6
African American	152.2	156.3	160.0	161.6	159.0	156.6	157.0	163.8	159.5	163.7	159.5	160.1	158.3	154.1	149.8	142.9
Other race	150.0	142.0	134.5	132.8	145.5	147.3	147.1	153.1	149.8	143.5	141.1	138.4	133.2	128.6	122.5	116.4
†Hispanic					142.1	149.1	154.0	153.3	149.1	150.0	147.0	145.4	140.0	136.5	130.8	121.8
†Non-Hisp.					179.5	177.7	179.3	184.3	180.7	182.2	180.0	178.9	175.1	172.1	169.1	163.4
Diabetes	257.3	266.1	245.1	234.0	235.8	231.9	236.7	242.3	232.8	234.5	227.9	225.5	219.6	214.2	209.7	199.4
Hypertension	135.9	189.5	204.1	205.1	198.9	200.7	201.1	203.7	201.1	202.1	201.0	198.6	195.8	194.0	190.8	183.6
Glomerulonephritis	75.8	91.5	100.6	95.1	94.5	92.1	89.8	91.2	89.2	87.6	86.4	85.5	80.1	78.8	75.4	72.6
Other cause	189.0	169.5	142.8	135.3	137.6	133.8	132.8	135.9	134.9	135.4	134.6	133.9	130.3	126.5	123.2	120.4
<2 years	194.2	222.9	224.6	217.6	220.9	218.0	223.9	231.0	225.0	227.3	224.5	224.6	218.5	215.3	211.2	203.0
2-<5 years	140.6	153.8	165.5	186.7	185.3	184.1	184.1	187.6	184.1	186.2	186.5	184.0	181.9	179.1	177.1	169.4
5+ years	78.5	106.3	107.4	110.4	110.2	113.2	113.0	116.0	116.0	117.2	114.9	115.4	114.1	112.6	110.4	108.0
All	160.7	171.8	173.8	175.8	175.9	174.7	176.6	180.8	176.9	178.2	175.8	174.5	170.4	167.2	163.7	157.3
<b>ADJUSTED</b>																
0-19	51.1	52.3	36.5	35.9	32.0	33.0	31.3	34.1	30.4	31.0	29.8	34.1	30.5	30.7	27.6	24.2
20-44	91.8	82.7	76.2	71.2	70.2	67.7	66.6	67.1	64.5	64.7	65.2	64.2	62.1	60.8	59.5	57.5
45-64	170.4	184.3	162.9	144.3	141.4	137.6	135.1	136.5	131.5	131.3	127.5	126.5	123.0	119.5	116.8	111.2
65-74	274.5	312.8	290.1	264.9	265.0	260.5	260.7	261.8	254.6	251.1	244.3	238.6	231.2	225.4	215.6	204.2
75+	386.6	429.6	411.0	394.1	398.6	394.5	398.9	410.4	399.3	399.6	391.1	384.3	377.4	373.3	366.5	355.4
Male	221.0	236.7	216.2	194.7	193.9	188.6	187.2	188.7	182.3	181.2	176.4	174.3	170.3	167.1	162.9	156.3
Female	200.7	218.1	200.5	190.5	188.9	187.1	187.0	190.6	184.9	184.6	180.8	177.5	171.8	167.5	163.4	156.7
White	228.0	251.1	225.5	206.4	203.5	198.6	198.0	199.4	191.8	189.8	184.9	181.3	175.5	171.6	167.6	161.1
African American	181.0	190.3	187.9	179.5	179.1	175.6	173.6	178.6	174.8	177.7	174.0	173.5	171.0	168.3	163.4	155.5
Other race	193.4	209.8	173.5	145.0	152.5	153.8	154.7	158.6	154.4	150.3	144.4	140.5	136.1	132.3	126.5	120.4
Diabetes	274.5	292.0	259.0	235.6	235.0	229.3	229.6	233.5	224.2	222.6	215.2	211.1	204.6	199.8	194.8	186.1
Hypertension	161.2	193.4	188.5	180.5	175.9	173.8	173.4	175.7	170.9	170.6	168.1	165.8	162.2	159.9	157.0	151.2
Glomerulonephritis	139.9	152.9	153.7	137.8	138.1	133.4	131.6	132.5	128.6	127.9	125.1	123.1	118.1	115.3	110.9	106.0
Other cause	199.9	210.5	187.8	172.9	174.3	170.2	168.5	170.9	167.6	168.1	165.8	164.9	162.0	158.5	152.8	146.6
<2 years	256.1	256.6	228.5	202.8	201.5	195.9	195.9	199.4	193.1	193.0	189.0	187.3	182.4	179.2	175.2	168.5
2-<5 years	214.5	219.8	205.9	200.6	198.3	193.1	190.9	191.7	184.3	182.7	179.1	175.4	170.6	166.3	162.6	155.4
5+ years	144.8	194.7	182.8	169.1	169.0	169.3	169.5	171.7	167.2	166.6	161.3	157.9	153.4	149.8	144.9	138.8
All	211.4	228.2	208.9	192.6	191.4	187.6	187.0	189.4	183.3	182.6	178.3	175.5	170.8	167.2	163.0	156.4

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



Table H.3

**Total patient deaths: dialysis patients**

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	*	11	18	22	18	22	17	20	26	31	21	21	20	18	18	21
5-9	*	*	*	*	*	*	*	12	*	14	*	14	*	*	*	*
10-14	*	*	13	14	15	13	13	21	*	*	17	24	19	18	*	15
15-19	22	36	24	39	31	35	29	37	29	34	30	44	34	30	43	27
20-29	228	281	395	436	458	416	411	424	422	461	471	480	476	471	455	440
30-39	522	880	1,360	1,819	1,852	1,732	1,696	1,812	1,731	1,779	1,773	1,721	1,667	1,623	1,652	1,668
40-49	823	1,309	2,118	3,480	3,614	3,784	3,896	4,234	4,336	4,634	4,764	4,812	4,864	4,913	4,829	4,704
50-59	1,656	2,817	3,760	5,804	6,107	6,587	7,120	7,952	8,335	9,034	9,462	9,876	10,223	10,275	10,914	10,803
60-64	1,178	2,403	3,383	4,684	4,914	5,111	5,514	5,944	6,093	6,353	6,486	7,053	7,236	7,186	7,445	7,525
65-69	1,365	2,685	4,577	6,490	6,860	7,153	7,469	7,818	8,005	8,327	8,342	8,575	8,647	8,686	8,750	8,852
70-79	1,706	4,381	7,997	13,732	14,970	15,939	17,471	18,984	19,447	20,087	20,622	20,879	21,003	21,078	20,862	20,460
80-84	277	905	2,027	4,203	4,606	5,034	5,658	6,246	6,730	7,474	8,093	8,524	8,921	9,295	9,517	9,595
85+	83	322	911	2,081	2,457	2,869	3,312	3,889	4,338	4,695	5,196	5,610	5,874	6,515	6,995	7,476
0-19	42	67	61	81	74	79	66	90	68	85	71	103	82	72	79	69
20-44	1,099	1,702	2,708	3,816	3,840	3,695	3,763	3,974	3,933	4,024	4,172	4,064	4,006	3,937	3,916	3,847
45-64	3,308	5,988	8,308	12,407	13,105	13,935	14,874	16,392	16,984	18,237	18,784	19,878	20,460	20,531	21,379	21,293
65-74	2,390	5,209	8,903	13,996	14,828	15,475	16,462	17,355	17,696	18,223	18,540	18,718	18,844	18,866	18,683	18,627
75+	1,041	3,084	6,609	12,510	14,065	15,520	17,448	19,582	20,824	22,360	23,713	24,870	25,601	26,708	27,441	27,756
Male	4,322	8,715	13,943	21,988	23,671	24,851	26,934	29,312	30,594	32,429	33,798	35,466	36,469	37,279	38,219	38,582
Female	3,558	7,335	12,646	20,822	22,241	23,853	25,679	28,081	28,911	30,500	31,482	32,167	32,524	32,835	33,279	33,010
White	5,604	11,207	18,023	28,094	29,938	31,677	34,273	36,927	38,352	40,431	42,245	43,485	44,130	45,080	46,327	46,544
African American	2,084	4,439	7,771	13,085	13,896	14,657	15,712	17,451	17,942	19,182	19,511	20,437	21,078	21,121	21,325	21,241
Native American	23	134	322	478	573	583	617	694	784	761	837	834	817	849	829	830
Asian	*	159	420	1,016	1,207	1,337	1,447	1,634	1,658	1,816	1,928	2,104	2,175	2,283	2,350	2,467
Other/unknown	161	111	53	137	298	450	564	687	769	739	759	773	793	781	667	510
†Hispanic					3,639	4,396	5,057	5,578	6,021	6,635	7,057	7,533	7,771	8,045	8,147	8,167
†Non-Hisp.					42,273	44,308	47,556	51,815	53,484	56,294	58,223	60,100	61,222	62,069	63,351	63,425
Diabetes	1,069	4,277	9,214	17,447	19,600	21,337	23,894	26,687	27,583	29,686	30,738	32,014	32,729	33,431	34,193	34,137
Hypertension	1,038	4,040	8,124	13,621	13,766	14,510	15,331	16,356	17,027	17,830	18,545	19,253	19,899	20,328	20,744	20,716
Glomerulonephritis	831	1,985	3,303	4,324	4,498	4,597	4,719	5,007	5,016	5,041	5,178	5,213	5,031	4,971	4,829	4,721
Cystic kidney	226	522	724	911	905	961	925	968	963	1,075	1,042	1,043	1,030	1,017	1,038	1,032
Other urologic	115	491	826	978	1,194	1,254	1,315	1,499	1,593	1,682	1,756	1,805	1,861	1,812	1,547	1,429
Other cause	696	1,549	2,490	3,871	4,227	4,284	4,485	4,905	5,096	5,288	5,655	5,787	5,828	5,880	6,409	6,774
Unknown cause	825	1,225	1,346	1,535	1,606	1,680	1,856	1,877	2,117	2,258	2,312	2,408	2,459	2,522	2,549	2,607
Missing	3,080	1,961	562	123	116	81	88	94	110	69	54	110	156	153	189	176
<2 years	4,987	9,442	15,551	23,046	24,493	25,415	27,891	30,424	31,166	32,562	33,222	34,079	33,959	34,213	34,597	34,321
2-<5 years	2,421	4,192	6,745	12,675	13,629	14,597	15,320	16,483	17,037	18,236	19,264	19,931	20,517	20,771	21,251	20,959
5+ years	472	2,416	4,293	7,089	7,790	8,692	9,402	10,486	11,302	12,131	12,794	13,623	14,517	15,130	15,650	16,312
All	7,880	16,050	26,589	42,810	45,912	48,704	52,613	57,393	59,505	62,929	65,280	67,633	68,993	70,114	71,498	71,592
All with unknowns dropped	6,907	14,724	25,196	41,145	44,027	46,586	50,212	54,848	56,643	59,954	62,236	64,482	65,765	66,846	68,302	68,496

Table H.4

**Annual mortality rates: dialysis patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
0-4	111.6	101.2	124.0	109.5	92.9	132.5	98.9	121.6	141.7	163.1	114.6	120.4	93.6	84.4	85.5	94.2
5-9	74.2	69.1	34.6	44.5	59.0	37.7	41.5	57.5	34.8	60.5	13.8	59.0	58.7	28.6	43.2	32.5
10-14	40.7	46.9	42.9	34.0	41.3	34.2	30.1	57.9	17.1	17.5	34.2	51.2	34.3	36.7	25.9	40.9
15-19	36.3	45.1	26.1	42.3	33.8	35.2	33.4	33.9	35.7	39.9	33.0	44.7	36.0	29.0	42.0	27.1
20-29	66.7	63.0	70.5	64.1	63.5	54.8	52.9	55.2	51.8	56.1	58.8	60.2	57.1	56.6	54.6	51.7
30-39	94.8	99.5	111.0	105.1	104.9	95.8	92.8	95.3	89.2	90.9	88.7	84.1	80.2	77.9	77.3	76.5
40-49	120.6	121.8	130.5	131.0	124.3	123.8	119.5	123.7	120.1	124.3	123.8	122.8	120.0	118.7	113.9	107.3
50-59	160.5	179.0	180.6	176.2	172.0	171.1	170.4	174.6	168.9	170.8	168.7	167.2	164.3	157.0	157.8	149.5
60-64	230.3	236.0	233.5	224.8	225.1	221.3	223.0	227.4	219.9	218.2	211.8	219.0	212.7	201.7	200.4	189.7
65-69	291.8	291.0	287.9	269.6	271.9	270.4	271.6	271.3	267.1	267.0	259.4	257.0	251.2	245.4	237.0	229.9
70-79	352.5	372.7	362.4	343.1	348.2	342.0	347.4	353.6	346.0	343.0	339.5	332.5	329.0	325.0	315.9	302.6
80-84	498.2	497.4	452.9	455.4	451.1	451.4	457.0	474.0	449.8	455.7	445.6	435.8	423.4	427.2	418.8	408.8
85+	613.2	598.5	568.4	540.2	552.9	570.9	575.1	576.5	577.3	562.9	568.7	552.4	535.0	539.6	528.9	526.4
Male	184.3	217.8	231.8	228.3	230.0	225.2	227.4	231.8	227.0	228.6	226.2	227.1	224.0	220.2	216.4	209.0
Female	179.8	204.2	223.0	231.3	231.3	233.7	237.1	245.1	239.7	242.2	240.8	237.6	232.3	228.8	224.9	215.7
White	192.4	234.3	260.7	268.5	271.4	271.0	276.0	280.9	275.1	275.6	275.6	273.2	267.1	263.7	259.9	249.9
African American	160.5	171.6	179.4	181.5	179.3	176.9	177.6	185.5	181.1	186.5	182.1	183.6	182.7	178.6	174.1	167.3
Other race	170.6	179.3	180.2	169.8	184.5	186.6	186.3	194.3	189.5	181.3	178.5	175.9	169.6	165.9	160.8	156.1
†Hispanic					178.9	186.4	193.4	193.1	185.8	186.8	185.2	184.7	178.2	174.0	166.2	155.8
†Non-Hisp.					236.6	234.6	237.1	244.2	239.8	242.4	240.6	239.6	236.1	232.8	229.9	222.4
Diabetes	286.2	309.5	294.2	274.8	277.6	271.6	275.8	283.2	271.4	272.8	265.8	263.2	256.3	251.0	245.4	233.8
Hypertension	147.6	211.7	233.4	235.0	229.3	232.4	233.9	237.2	234.2	235.5	234.7	232.9	230.6	228.4	226.2	218.4
Glomerulonephritis	92.1	124.5	152.3	148.4	146.6	143.6	142.0	145.8	142.4	141.2	143.0	142.7	136.9	134.5	130.1	127.0
Other cause	210.7	212.1	204.9	207.4	213.4	209.6	209.7	214.7	215.5	218.0	219.7	219.7	217.4	212.2	207.7	201.6
<2 years	209.5	244.7	245.2	232.8	236.2	232.8	238.5	246.0	239.3	241.5	238.6	238.7	232.0	228.4	224.9	216.2
2-<5 years	162.4	200.9	231.9	249.3	244.3	240.5	239.4	242.3	236.3	237.3	236.6	232.8	229.2	225.0	221.4	210.6
5+ years	104.3	146.6	176.5	194.2	196.9	204.2	205.2	212.4	212.9	216.0	215.1	215.6	216.8	214.0	209.2	205.4
All	182.2	211.3	227.6	229.7	230.7	229.3	232.0	238.1	233.0	235.0	233.0	231.9	227.8	224.1	220.3	212.0
<b>ADJUSTED</b>																
0-19	66.6	80.2	60.8	65.0	61.9	64.1	59.8	67.0	61.3	66.3	58.9	68.3	62.3	57.1	56.5	52.9
20-44	112.8	113.3	119.4	114.2	113.9	110.5	108.5	109.2	104.4	103.5	104.8	103.3	100.2	97.9	94.4	90.0
45-64	183.5	203.5	199.2	185.7	183.7	180.9	179.4	183.0	177.2	177.9	175.3	174.7	171.7	166.7	163.5	156.2
65-74	288.8	324.2	309.6	293.1	296.0	294.5	296.6	300.5	293.9	292.6	288.7	285.0	279.4	274.9	265.7	253.1
75+	405.2	444.0	433.7	419.6	426.6	424.4	430.6	444.5	433.1	434.9	428.5	421.6	416.0	412.4	406.3	395.4
Male	235.0	256.1	249.4	229.8	230.5	225.5	224.7	227.3	220.4	219.8	216.0	214.1	210.7	206.8	202.0	193.9
Female	213.4	232.8	224.3	220.3	219.5	219.1	219.9	225.5	219.1	219.7	217.6	214.7	209.4	204.4	200.0	191.9
White	244.1	273.7	263.6	249.9	248.1	244.3	244.9	248.4	240.0	238.6	235.5	232.3	226.9	222.1	217.3	208.8
African American	191.4	199.3	203.4	196.6	196.9	193.2	191.0	196.3	191.9	195.6	192.2	192.0	190.0	186.8	181.4	173.1
Other race	203.0	223.6	195.1	166.1	175.1	176.9	178.5	184.2	179.9	175.4	168.5	164.3	159.0	154.6	148.6	141.4
Diabetes	296.3	319.7	300.7	278.4	280.0	274.7	274.9	280.3	268.9	267.3	260.1	255.2	247.9	241.5	235.3	224.3
Hypertension	170.8	206.5	211.4	208.0	202.6	201.2	201.8	206.1	200.6	200.6	198.6	197.2	194.0	191.3	187.9	180.8
Glomerulonephritis	147.1	163.9	175.5	164.2	165.0	161.5	160.3	163.3	158.5	159.2	158.9	158.6	155.0	151.8	147.5	142.8
Other cause	212.9	225.5	216.2	209.1	213.0	210.6	210.9	214.9	213.0	215.3	215.6	215.6	214.4	211.2	205.8	198.1
<2 years	259.7	264.8	239.0	213.1	212.3	206.9	207.4	211.7	205.0	205.1	201.8	200.5	195.9	192.2	188.1	180.9
2-<5 years	224.4	242.3	243.1	236.8	233.6	226.8	223.9	225.0	216.0	214.0	210.7	206.6	201.4	196.2	192.0	183.2
5+ years	176.3	221.4	231.8	231.5	235.4	239.2	242.0	248.1	243.4	245.1	242.5	239.8	236.8	232.6	226.8	218.3
All	224.8	245.6	238.0	225.3	225.3	222.2	222.4	226.3	219.6	219.6	216.6	214.2	209.8	205.5	200.9	192.8

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



Table H.5

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

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	*	11	15	21	15	21	14	18	23	29	20	17	17	17	12	18
5-9	*	*	*	*	*	*	*	11	*	*	*	13	*	*	*	*
10-14	*	*	*	11	11	*	*	13	*	*	*	14	12	13	*	15
15-19	22	36	19	28	25	24	18	28	21	23	17	33	23	17	33	17
20-29	228	281	350	344	358	314	291	310	308	337	344	340	318	321	320	307
30-39	522	880	1,230	1,546	1,520	1,386	1,373	1,428	1,348	1,384	1,383	1,330	1,236	1,181	1,176	1,215
40-49	823	1,308	1,961	2,994	3,059	3,160	3,273	3,496	3,533	3,805	3,944	3,890	3,811	3,867	3,757	3,641
50-59	1,656	2,817	3,608	5,332	5,562	5,906	6,307	7,018	7,249	7,812	8,158	8,407	8,546	8,467	9,012	8,833
60-64	1,178	2,403	3,310	4,499	4,668	4,786	5,129	5,511	5,595	5,758	5,866	6,346	6,336	6,232	6,408	6,458
65-69	1,365	2,685	4,548	6,337	6,635	6,904	7,206	7,476	7,600	7,882	7,843	7,989	7,873	7,895	7,817	7,887
70-79	1,706	4,381	7,987	13,659	14,868	15,811	17,283	18,751	19,127	19,765	20,195	20,376	20,356	20,326	20,058	19,516
80-84	277	905	2,027	4,200	4,603	5,029	5,653	6,238	6,716	7,456	8,063	8,490	8,887	9,242	9,462	9,517
85+	83	322	911	2,081	2,457	2,869	3,312	3,889	4,338	4,693	5,192	5,608	5,868	6,507	6,989	7,460
0-19	42	67	48	65	59	62	48	70	55	66	47	77	57	50	60	54
20-44	1,099	1,701	2,455	3,221	3,161	2,972	3,019	3,170	3,084	3,157	3,279	3,172	2,984	2,948	2,887	2,832
45-64	3,308	5,988	8,004	11,494	12,006	12,580	13,354	14,593	14,949	15,939	16,416	17,141	17,263	17,120	17,786	17,622
65-74	2,390	5,209	8,864	13,778	14,521	15,128	16,062	16,842	17,058	17,535	17,716	17,764	17,588	17,555	17,175	17,033
75+	1,041	3,084	6,609	12,499	14,042	15,485	17,392	19,512	20,723	22,261	23,577	24,699	25,396	26,415	27,151	27,347
Male	4,322	8,714	13,565	21,000	22,414	23,448	25,359	27,441	28,548	30,120	31,334	32,662	33,211	33,747	34,461	34,587
Female	3,558	7,335	12,415	20,057	21,375	22,779	24,516	26,746	27,321	28,838	29,701	30,191	30,077	30,341	30,598	30,301
White	5,604	11,207	17,618	26,966	28,567	30,184	32,612	34,987	36,234	38,114	39,808	40,721	40,834	41,617	42,568	42,609
African American	2,084	4,438	7,585	12,528	13,236	13,805	14,807	16,361	16,657	17,789	17,984	18,764	19,053	18,983	19,123	18,966
Native American	23	134	317	452	542	550	583	654	735	716	777	768	739	776	740	748
Asian	*	159	407	975	1,152	1,257	1,330	1,527	1,517	1,627	1,762	1,893	1,917	1,995	2,048	2,122
Other/unknown	161	111	53	136	292	431	543	658	726	712	704	707	745	717	580	443
†Hispanic				3,467	4,189	4,761	5,233	5,649	6,195	6,532	6,931	6,999	7,206	7,280	7,219	
†Non-Hisp.				40,322	42,038	45,114	48,954	50,220	52,763	54,503	55,922	56,289	56,882	57,779	57,669	
Diabetes	1,069	4,277	9,005	16,824	18,788	20,387	22,798	25,350	26,087	27,989	28,952	30,027	30,301	30,766	31,363	31,096
Hypertension	1,038	4,040	8,010	13,244	13,316	13,947	14,744	15,654	16,256	16,928	17,614	18,205	18,644	19,053	19,339	19,296
Glomerulonephritis	831	1,985	3,166	3,979	4,071	4,142	4,212	4,462	4,351	4,393	4,479	4,356	4,084	3,992	3,824	3,721
Cystic kidney	226	522	698	806	798	840	786	836	804	912	864	848	812	789	761	764
Other urologic	115	491	819	945	1,153	1,214	1,265	1,439	1,510	1,588	1,645	1,694	1,725	1,662	1,402	1,286
Other cause	696	1,549	2,414	3,672	4,007	4,000	4,195	4,554	4,730	4,917	5,197	5,325	5,263	5,310	5,783	6,113
Unknown cause	825	1,224	1,325	1,469	1,543	1,619	1,789	1,799	2,027	2,163	2,230	2,290	2,307	2,364	2,402	2,441
Missing	3,080	1,961	543	118	113	78	86	93	104	68	54	108	152	152	185	171
<2 years	4,987	9,442	15,360	22,617	23,975	24,839	27,294	29,777	30,450	31,818	32,524	33,302	33,073	33,303	33,626	33,332
2-<5 years	2,421	4,192	6,518	12,120	12,950	13,872	14,487	15,493	15,968	17,017	17,936	18,470	18,740	19,012	19,353	19,051
5+ years	472	2,415	4,102	6,320	6,864	7,516	8,094	8,917	9,451	10,123	10,575	11,081	11,475	11,773	12,080	12,505
All	7,880	16,049	25,980	41,057	43,789	46,227	49,875	54,187	55,869	58,958	61,035	62,853	63,288	64,088	65,059	64,888
All with unknowns dropped	6,907	14,724	24,608	39,459	41,972	44,189	47,561	51,748	53,140	56,103	58,127	59,883	60,260	61,042	62,094	62,022

Table H.6

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

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
0-4	182.2	196.2	268.0	257.9	177.2	246.8	184.9	264.6	322.9	332.8	236.0	269.9	212.6	218.8	164.3	178.5
5-9	127.9	184.1	98.9	133.9	179.2	138.1	121.2	178.5	90.6	125.3	28.3	195.4	122.7	37.3	150.9	64.6
10-14	66.4	108.0	170.5	95.4	113.1	99.8	82.4	151.2	61.8	68.6	92.2	144.9	127.7	119.2	59.2	108.0
15-19	55.7	88.2	70.5	113.5	94.8	92.1	75.9	97.8	96.0	90.8	73.5	120.2	98.0	66.4	100.4	46.6
20-29	87.2	99.9	148.5	143.0	142.2	123.9	112.7	120.7	111.9	121.2	128.1	125.6	108.5	103.0	96.3	83.1
30-39	110.4	135.0	178.0	176.6	175.0	158.7	159.1	161.0	153.5	160.7	159.1	151.1	135.4	127.7	119.2	114.4
40-49	128.4	145.1	180.3	184.6	176.1	175.3	172.9	178.7	173.0	181.7	184.7	181.1	171.0	167.8	157.2	142.0
50-59	162.4	190.4	211.0	217.4	213.6	213.5	213.8	223.5	217.4	222.5	222.4	221.0	214.3	201.1	199.6	182.6
60-64	230.6	240.4	246.8	247.8	250.1	247.3	252.5	260.6	255.4	256.3	251.9	264.7	254.5	240.7	236.5	221.9
65-69	291.9	292.2	295.4	280.8	284.0	283.9	288.7	291.4	288.9	292.2	287.9	287.1	279.1	275.7	265.8	256.4
70-79	352.5	372.9	363.8	345.9	351.4	345.9	351.6	358.7	351.9	351.0	347.8	342.0	339.2	336.1	327.8	313.4
80-84	498.2	497.4	453.2	455.5	451.5	451.7	457.4	474.8	450.4	456.6	446.1	437.2	425.0	428.9	420.9	410.5
85+	613.2	598.5	568.7	540.3	553.0	571.1	575.3	576.9	577.8	563.5	569.1	552.8	535.4	540.3	529.9	527.0
Male	196.9	244.6	282.9	284.3	286.9	282.4	286.7	293.6	289.3	292.5	291.1	292.5	286.9	280.4	272.7	257.7
Female	190.9	226.3	260.4	273.1	274.9	277.8	283.6	295.0	289.0	294.9	295.1	292.0	282.4	277.8	270.9	257.0
White	205.6	262.0	312.2	323.4	327.5	328.3	335.7	343.0	337.4	339.4	341.5	338.7	329.0	324.0	316.7	300.2
African American	169.4	190.1	211.3	220.5	219.4	216.4	219.4	230.5	225.6	234.6	229.6	232.2	228.5	222.1	214.8	202.5
Other race	186.3	210.1	235.7	219.9	238.6	240.0	239.2	254.4	248.6	241.3	242.7	240.4	230.4	223.6	211.9	201.1
†Hispanic					234.3	244.6	253.5	254.4	246.8	249.8	248.3	249.1	236.4	229.2	216.3	196.5
†Non-Hisp.					285.8	284.2	289.0	299.3	294.9	299.8	299.5	298.7	292.2	287.1	280.9	267.8
Diabetes	292.0	323.1	325.4	306.7	310.0	304.5	311.0	321.1	309.7	313.7	308.5	307.2	297.4	290.3	282.8	265.3
Hypertension	156.0	230.1	267.3	275.7	270.5	275.0	279.3	285.0	284.2	286.6	287.1	285.3	281.2	278.7	273.4	260.6
Glomerulonephritis	106.1	153.9	210.4	216.2	215.0	213.5	213.4	223.4	215.9	218.7	224.7	220.7	207.9	203.0	192.7	184.8
Other cause	220.2	236.1	252.9	269.5	280.7	277.1	279.4	287.9	290.2	297.8	301.5	303.9	298.0	289.2	278.3	264.5
<2 years	222.9	270.6	295.7	283.3	288.3	285.3	293.1	304.3	297.5	301.2	298.1	298.1	288.8	283.2	276.3	259.5
2-<5 years	172.1	223.8	269.4	293.7	288.3	285.3	286.0	290.3	285.6	288.5	291.1	287.8	280.1	274.8	267.4	252.3
5+ years	113.9	167.5	210.6	241.2	246.8	256.1	260.1	270.8	270.6	280.0	281.6	283.1	281.0	275.2	266.9	259.6
All	194.2	235.9	271.7	278.7	280.9	280.1	285.2	294.3	289.2	293.7	293.1	292.3	284.8	279.2	271.8	257.4
<b>ADJUSTED</b>																
0-19	136.1	139.2	148.1	137.5	142.2	126.4	145.9	139.5	146.5	126.2	152.9	142.5	129.2	119.9	100.6	
20-44	139.5	181.2	180.1	178.3	173.0	171.8	174.5	168.3	168.7	173.4	172.9	162.0	155.0	141.9	128.2	
45-64	212.4	226.1	222.8	223.0	221.9	222.5	229.8	225.1	229.4	230.8	231.8	225.3	216.4	208.8	195.0	
65-74	325.4	310.0	297.4	301.5	301.0	305.5	311.4	306.0	308.5	308.1	306.7	300.2	297.5	287.9	274.3	
75+	445.5	426.9	414.4	421.5	419.1	425.9	439.6	427.8	431.6	426.5	420.1	413.2	410.3	405.0	393.3	
Male	266.9	276.9	264.0	265.4	260.5	261.0	266.2	259.9	262.0	260.5	260.0	253.6	247.4	238.8	224.6	
Female	242.6	244.0	247.1	247.7	248.4	251.2	260.0	253.2	257.1	258.1	257.1	247.7	240.3	232.1	219.8	
White	285.0	290.8	283.7	282.6	280.0	282.9	289.6	281.9	283.1	283.6	281.9	272.5	265.2	255.7	241.2	
African American	208.3	222.2	224.2	225.5	221.1	219.4	226.3	221.4	228.5	226.2	227.7	223.3	218.1	210.1	197.8	
Other race	233.4	221.1	195.9	207.6	207.6	209.8	219.8	217.1	215.9	212.0	208.9	201.0	193.7	182.8	168.7	
Diabetes	329.4	324.0	306.4	308.9	304.3	305.9	313.4	302.5	303.3	299.7	297.3	286.4	277.0	267.1	250.2	
Hypertension	216.6	233.8	236.2	230.2	229.0	232.0	238.3	234.4	236.1	236.4	236.3	230.7	227.2	219.8	208.1	
Glomerulonephritis	174.9	203.4	199.3	200.3	198.7	197.8	204.5	198.4	202.9	206.2	205.8	197.2	190.6	181.7	173.2	
Other cause	238.1	245.2	248.9	255.7	252.7	254.5	261.6	260.1	266.7	269.6	271.7	267.3	261.7	251.4	237.2	
<2 years	277.7	273.2	251.2	251.1	245.8	247.9	255.5	249.1	251.5	249.6	249.0	240.9	234.9	227.0	213.6	
2-<5 years	253.0	266.6	268.3	265.7	259.5	257.5	260.8	252.3	252.8	252.5	249.9	240.9	233.5	225.5	211.8	
5+ years	228.9	244.6	252.5	257.8	262.0	266.4	274.8	270.0	275.7	277.1	277.2	271.0	264.3	254.9	242.1	
All	255.9	262.2	256.4	257.3	254.8	256.5	263.2	256.7	259.7	259.4	258.5	250.7	244.1	235.6	222.2	



Table H.7

**Total patient deaths: dialysis patients, on transplant wait list***by age, gender, race, ethnicity, primary diagnosis, & patient vintage*

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4			*	.	.	*	*	*	*	*	*	.	*	*	.	*
5-9			.	.	.	*	.	.	*	.	.	.	*	*	.	*
10-14			.	.	*	*	*	*	.	.	*	*	*	*	*	.
15-19			*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29			23	41	43	50	53	62	45	48	56	65	81	79	64	53
30-39			67	125	163	157	175	200	150	180	169	200	242	237	273	236
40-49			68	230	260	289	309	335	325	339	357	429	559	534	542	580
50-59			70	220	263	357	411	439	503	604	612	731	921	1,003	1,017	1,071
60-64			34	78	111	165	186	204	236	258	301	357	482	500	576	573
65-69			17	63	109	125	110	148	155	198	223	299	416	406	449	502
70-79			*	21	42	50	66	88	100	104	139	230	283	309	355	359
80-84			.	*	*	*	.	*	*	*	*	14	12	14	20	22
85+			.	.	.	.	.	.	.	*	*	.	*	*	*	*
0-19			*	*	*	*	*	*	*	*	12	*	11	*	*	*
20-44			126	274	316	335	377	393	342	367	382	422	558	521	550	510
45-64			136	420	524	683	757	847	917	1,062	1,113	1,360	1,727	1,832	1,922	2,003
65-74			24	82	147	163	161	213	239	280	335	478	633	630	721	770
75+			.	*	*	15	15	24	17	27	35	65	79	103	104	116
Male			184	431	561	682	740	865	848	1,013	1,099	1,386	1,681	1,822	1,916	2,023
Female			105	353	437	524	579	618	671	728	778	948	1,327	1,274	1,385	1,384
White			198	496	625	698	781	902	873	1,005	1,057	1,338	1,722	1,799	1,922	1,965
African American			83	256	329	423	434	496	532	605	683	802	1,069	1,059	1,124	1,161
Native American			*	*	15	24	19	15	17	20	21	37	46	33	41	37
Asian			*	22	25	48	70	54	67	94	78	119	143	168	160	197
Other/unknown			.	.	*	13	15	16	30	17	38	38	28	37	54	47
†Hispanic					85	108	158	168	169	220	285	330	430	472	473	505
†Non-Hisp.					913	1,098	1,161	1,315	1,350	1,521	1,592	2,004	2,578	2,624	2,828	2,902
Diabetes			102	295	405	498	595	674	695	826	886	1,046	1,377	1,480	1,581	1,695
Hypertension			57	161	206	276	245	282	309	381	406	470	614	608	655	659
Glomerulonephritis			64	138	197	197	216	245	231	251	259	396	431	451	449	448
Cystic kidney			11	47	39	49	50	46	61	51	68	96	96	105	136	122
Other urologic			*	15	15	17	25	26	40	31	42	50	71	80	69	67
Other cause			29	97	103	142	154	171	131	167	182	219	328	290	329	318
Unknown cause			*	28	31	25	34	39	50	33	34	55	88	81	80	96
Missing			*	*	*	*	.	.	*	*	.	*	*	*	*	*
<2 years			82	238	290	337	359	381	373	415	375	428	511	512	568	589
2-<5 years			107	297	389	465	516	589	623	750	851	954	1,162	1,164	1,258	1,258
5+ years			100	249	319	404	444	513	523	576	651	952	1,335	1,420	1,475	1,560
All			289	784	998	1,206	1,319	1,483	1,519	1,741	1,877	2,334	3,008	3,096	3,301	3,407
All with unknowns dropped			279	756	964	1,168	1,271	1,428	1,439	1,691	1,806	2,241	2,892	2,978	3,169	3,266

Table H.8

**Annual mortality rates: dialysis patients, on transplant wait list**

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4			72.1			112.2	114.4	51.2	45.6	47.9	48.1		38.3	27.3		69.3
5-9									25.8				46.6	45.4		40.4
10-14				11.3	21.8	9.1	18.7	19.2	9.7	9.6	39.1	16.3	27.9	13.7	8.1	9.9
15-19			10.4	13.4	17.0	28.0	20.2	10.6	7.0	21.9	23.0	23.6	16.4	12.8	13.9	19.5
20-29			23.6	28.0	26.3	25.3	27.1	29.1	19.4	21.0	23.6	25.7	29.8	28.4	23.0	19.6
30-39			40.9	37.4	47.4	43.3	42.0	45.5	31.1	33.0	30.4	33.0	40.1	37.5	41.0	34.9
40-49			39.5	57.6	54.5	59.4	54.6	53.5	46.7	45.4	43.3	48.5	59.4	54.9	52.5	53.8
50-59			67.5	69.3	69.8	81.0	79.5	72.5	73.1	70.9	64.6	67.1	78.7	80.9	76.3	75.0
60-64			110.5	82.1	94.5	107.2	102.0	97.7	90.2	79.7	77.5	82.1	103.2	95.6	106.0	93.0
65-69			113.3	105.1	140.3	137.6	97.1	105.4	95.8	94.1	87.2	98.8	121.6	113.7	107.1	110.7
70-79			234.0	117.6	162.4	149.0	154.5	151.7	116.7	96.2	105.1	144.9	140.8	140.2	142.6	122.3
80-84				384.1	292.8	301.1		115.8	75.6	153.3	134.2	192.0	183.8	165.1	193.8	173.3
85+										292.2	325.2		287.6	522.3	148.7	141.6
Male			52.5	52.6	59.4	63.5	61.1	63.5	55.1	57.3	55.9	63.1	71.1	72.7	71.4	70.4
Female			39.1	57.2	60.7	67.2	63.4	61.1	58.1	54.4	52.4	57.3	75.3	69.3	70.5	66.2
White			52.7	63.9	70.3	71.8	70.5	74.3	63.3	63.9	60.7	69.8	82.9	82.2	81.7	77.7
African American			39.7	45.3	50.3	56.6	51.4	51.4	49.0	48.2	49.3	51.8	65.7	61.8	61.9	59.7
Other race			22.9	31.3	34.8	61.3	59.9	42.0	49.8	46.2	42.0	49.4	51.4	53.9	53.4	57.2
†Hispanic					45.1	47.1	56.6	52.7	43.0	47.7	52.9	53.8	61.3	61.4	55.3	54.2
†Non-Hisp.					61.9	67.5	63.0	64.0	58.6	57.6	54.7	61.9	75.2	73.3	74.5	72.0
Diabetes			105.5	101.4	112.2	117.8	115.9	114.7	98.2	96.4	89.3	91.4	108.9	108.7	106.5	103.8
Hypertension			43.7	45.5	51.4	62.4	50.5	49.8	49.0	51.4	49.5	51.2	61.8	57.5	57.6	55.4
Glomerulonephritis			30.8	32.4	40.6	36.6	35.5	37.1	31.9	32.4	31.1	43.6	46.9	46.8	45.7	44.2
Other cause			36.3	50.1	44.7	50.7	50.6	49.8	45.4	39.0	41.1	48.2	62.7	58.1	59.3	54.2
<2 years			33.1	44.8	49.5	52.2	49.2	48.4	42.0	43.1	38.5	42.1	47.4	45.1	45.9	43.8
2-<5 years			58.1	64.6	68.6	71.6	68.2	67.9	63.6	64.5	63.5	63.7	73.5	71.9	73.4	68.9
5+ years			52.4	56.4	62.9	72.6	69.5	71.1	62.9	58.9	57.2	71.3	90.6	89.0	86.6	86.6
All			46.6	54.6	60.0	65.1	62.1	62.5	56.4	56.1	54.4	60.6	72.9	71.2	71.0	68.7
<b>ADJUSTED</b>																
0-19			42.0	21.5	27.0	43.7	55.5	44.2	30.9	35.9	49.3	42.8	44.0	38.1	28.3	37.6
20-44			54.2	51.4	55.3	59.6	58.2	57.5	47.8	43.9	41.0	41.4	49.9	47.9	48.4	45.6
45-64			86.4	82.6	85.3	90.9	85.9	85.2	75.5	72.0	65.2	69.7	81.9	79.3	78.0	74.3
65-74			151.8	126.8	154.5	163.8	132.2	126.7	110.1	100.8	93.2	108.9	128.6	123.5	120.2	113.7
75+			64.1	170.0	147.3	207.4	187.2	211.7	137.0	117.2	104.8	138.1	157.6	179.3	158.6	149.8
Male			94.1	103.0	103.3	113.5	99.9	106.1	83.1	78.7	71.3	82.5	93.8	94.8	90.1	86.5
Female			76.1	86.9	95.5	113.0	102.5	98.3	83.0	74.1	67.4	74.7	90.8	86.0	84.4	77.8
White			101.1	109.4	115.7	127.4	113.2	119.1	93.8	85.5	76.2	87.8	101.5	100.3	95.8	90.1
African American			66.4	70.7	74.3	93.3	79.0	76.8	64.7	61.8	59.7	65.3	79.3	77.3	74.6	71.9
Other race			61.8	86.4	73.4	83.8	90.0	70.7	67.0	62.2	53.7	63.4	71.1	67.7	65.7	65.6
Diabetes			127.4	138.4	144.6	161.2	139.7	146.9	119.0	110.0	98.2	106.2	122.7	121.3	119.4	113.6
Hypertension			72.5	76.3	82.4	103.2	94.3	91.6	71.6	68.2	62.2	70.6	82.3	76.8	72.2	68.2
Glomerulonephritis			55.9	64.0	76.0	85.9	78.1	70.7	56.3	50.5	48.7	62.7	70.4	74.4	66.2	62.2
Other cause			73.7	73.9	68.5	72.0	71.6	78.2	65.2	57.9	53.5	63.0	77.1	80.5	78.1	74.9
<2 years			51.9	68.2	70.3	78.0	68.8	69.0	54.8	51.5	46.4	52.3	58.9	56.4	54.2	50.8
2-<5 years			97.3	103.4	106.4	118.0	102.9	103.7	84.2	80.0	75.2	81.7	91.7	88.3	86.0	80.5
5+ years			120.2	125.7	134.5	161.4	146.5	152.7	121.2	108.1	95.3	113.2	138.6	140.7	133.0	127.4
All			86.2	95.0	99.5	113.3	101.1	102.6	82.9	76.6	69.5	78.9	92.3	90.7	87.2	82.5



Table H.9

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

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	.	*	.	.	.	.	.	.	.	.	*	.	.	*	.
5-9	*	*	*	.	*	*	*	.	*	*	*	*	*	*	*	.
10-14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.
15-19	*	*	*	*	11	*	*	*	*	*	*	*	*	*	*	*
20-29	20	31	72	63	78	71	82	81	86	92	86	83	82	86	89	87
30-39	31	103	164	216	235	248	239	232	242	259	233	208	208	238	216	229
40-49	25	102	259	340	390	465	405	479	505	529	516	541	526	509	488	496
50-59	25	65	182	356	342	369	438	490	491	552	602	633	659	661	707	701
60-64	*	32	65	113	123	160	176	179	190	225	219	254	285	288	278	309
65-69	.	11	35	111	97	106	124	127	172	166	159	200	216	223	234	266
70-79	*	*	16	44	63	73	98	101	122	146	177	154	181	229	254	222
80-84	*	*	.	*	*	*	*	*	*	*	13	*	11	19	13	17
85+	.	.	.	*	.	.	.	.	.	*	.	*	*	.	*	*
0-19	*	12	16	14	16	12	*	14	*	12	14	12	11	14	11	*
20-44	66	182	373	444	497	547	517	507	562	580	576	512	528	544	508	512
45-64	43	151	369	644	671	766	823	954	952	1,077	1,080	1,207	1,232	1,238	1,270	1,310
65-74	*	14	47	146	141	157	194	198	257	272	290	312	353	379	409	410
75+	*	*	*	15	20	23	31	34	42	47	59	49	56	92	96	98
Male	75	249	503	721	810	854	909	1,007	1,049	1,181	1,162	1,171	1,268	1,306	1,295	1,375
Female	41	112	306	542	535	651	666	700	773	807	857	921	912	961	999	961
White	91	260	541	828	915	973	1,023	1,066	1,152	1,268	1,273	1,288	1,332	1,383	1,407	1,445
African American	21	92	245	403	395	485	505	587	603	655	674	722	763	794	788	799
Native American	.	*	*	16	11	12	16	14	23	16	23	20	23	24	30	22
Asian	.	*	14	16	24	34	31	40	42	48	48	59	60	61	63	66
Other/unknown	*	*	*	.	.	*	.	.	*	*	*	*	*	*	*	*
†Hispanic					94	106	126	152	142	168	174	163	180	213	209	224
†Non-Hisp.					1,251	1,399	1,449	1,555	1,680	1,820	1,845	1,929	2,000	2,054	2,085	2,112
Diabetes	20	66	189	282	326	343	394	449	466	503	493	516	558	608	628	631
Hypertension	*	59	138	298	291	335	350	401	394	447	463	462	518	492	531	521
Glomerulonephritis	26	84	233	354	378	428	430	441	519	549	544	629	597	653	608	623
Cystic kidney	*	20	41	75	95	115	97	103	101	119	107	115	130	128	127	138
Other urologic	*	*	*	28	31	37	43	44	57	62	77	62	61	74	71	75
Other cause	*	39	127	167	176	210	214	234	246	259	295	255	266	273	288	297
Unknown cause	*	29	45	57	46	37	45	34	38	49	40	53	49	39	39	49
Missing	39	56	32	*	*	.	*	*	*	.	.	.	*	.	*	*
<2 years	27	21	38	25	25	16	13	13	11	17	11	19	11	*	*	*
2-<5 years	67	133	201	166	181	159	165	164	147	142	127	131	143	124	114	124
5+ years	22	207	570	1,072	1,139	1,330	1,397	1,530	1,664	1,829	1,881	1,942	2,026	2,133	2,171	2,203
All	116	361	809	1,263	1,345	1,505	1,575	1,707	1,822	1,988	2,019	2,092	2,180	2,267	2,294	2,336
All with unknowns dropped	104	331	762	1,206	1,299	1,467	1,530	1,673	1,782	1,938	1,978	2,036	2,129	2,223	2,249	2,283



Table H.10

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

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	.	136.5	.	.	152.7	.	.	.	136.8	98.6	132.8	.	137.3	162.8	.
5-9	371.3	22.6	27.3	32.9	33.5	.	50.0	.	72.9	154.6	.	32.6	87.6	113.3	.	.
10-14	34.3	64.1	30.8	33.5	42.7	20.5	33.4	104.7	8.8	.	81.1	47.8	18.8	17.8	28.1	.
15-19	29.2	42.5	35.2	34.6	33.4	27.3	33.9	22.7	26.5	38.4	25.4	34.0	21.3	40.8	44.2	23.9
20-29	56.9	36.1	46.5	41.7	43.5	43.3	49.3	42.9	47.3	59.9	45.7	55.8	49.7	52.9	47.1	51.1
30-39	80.4	79.2	75.1	63.4	72.9	75.4	70.2	68.8	73.2	71.6	65.0	52.8	59.1	63.4	59.7	61.7
40-49	92.4	98.1	113.9	102.9	102.9	118.4	99.1	114.0	114.4	119.1	115.2	115.0	107.1	104.3	97.0	96.4
50-59	154.6	97.9	145.8	157.1	143.1	150.2	162.5	168.6	161.1	159.4	165.3	160.3	158.3	148.7	154.0	144.2
60-64	262.1	218.9	180.3	196.0	175.0	222.9	209.8	218.7	197.3	229.0	222.1	232.4	231.3	218.1	205.3	213.0
65-69	.	321.9	252.5	299.1	245.4	253.3	298.0	235.5	321.7	280.7	223.7	261.1	270.4	264.8	245.7	237.7
70-79	.	414.3	315.3	279.4	247.7	332.6	356.7	341.1	355.6	350.9	412.9	310.8	347.9	365.5	364.6	298.5
80-84	.	.	.	.	172.1	208.2	429.9	591.0	498.8	537.6	897.6	355.5	536.1	656.5	378.8	333.3
85+	.	.	.	.	.	.	.	.	.	389.0	.	321.5	239.8	.	750.9	385.9
Male	86.9	89.6	97.6	96.9	101.2	106.7	107.6	115.2	116.5	126.2	117.5	114.4	119.8	119.2	114.4	115.3
Female	90.3	64.6	90.3	105.4	96.7	116.0	111.6	112.3	118.8	118.9	124.3	126.3	122.0	123.9	125.5	118.9
White	99.7	86.5	99.5	109.5	115.0	122.7	122.1	123.1	129.8	136.7	134.3	130.5	131.9	131.4	131.5	131.3
African American	58.5	67.7	85.9	87.8	75.7	93.3	91.3	102.3	100.0	105.7	102.6	106.2	107.0	108.7	102.6	99.2
Other race	84.2	70.3	89.6	69.5	72.3	82.9	83.9	89.3	98.9	92.4	89.2	88.5	94.2	96.7	98.5	86.3
†Hispanic	.	.	.	.	73.7	72.5	83.3	92.9	80.7	94.8	94.7	79.7	82.9	93.8	89.0	86.0
†Non-Hisp.	.	.	.	.	102.0	114.6	112.1	116.5	121.7	126.6	123.4	124.3	125.6	124.8	123.0	121.2
Diabetes	262.7	213.4	237.2	213.8	226.1	224.7	239.0	263.5	251.6	260.5	244.8	230.6	236.7	246.1	238.1	232.3
Hypertension	52.5	78.1	84.3	110.7	97.3	110.2	109.3	121.5	113.9	123.9	120.6	118.6	128.5	115.5	120.5	115.7
Glomerulonephritis	54.3	47.0	72.7	75.9	77.7	86.8	80.2	79.1	93.1	92.8	90.0	100.0	91.6	100.4	92.6	92.4
Other cause	103.4	92.0	88.0	86.9	86.3	101.6	100.3	99.9	101.4	110.1	112.3	100.4	104.1	98.1	99.7	98.1
<2 years	88.9	65.5	68.1	59.4	73.5	52.8	57.6	56.0	48.0	72.3	49.9	102.1	57.2	61.3	53.4	48.9
2-<5 years	79.5	84.9	95.5	82.9	93.2	92.4	99.3	109.6	104.0	111.6	97.7	103.7	114.4	109.5	96.1	97.5
5+ years	125.8	79.5	96.5	104.6	101.0	113.9	111.1	115.3	119.5	124.7	122.8	120.6	121.7	122.3	120.7	118.4
All	88.1	80.4	94.7	100.4	99.4	110.5	109.2	114.0	117.4	123.2	120.3	119.4	120.7	121.1	118.9	116.8
<b>ADJUSTED</b>																
0-19			59.8	62.6	68.8	55.5	50.6	60.0	57.7	68.6	57.0	64.2	45.0	52.7	55.8	43.0
20-44			99.6	80.7	83.5	86.3	83.9	80.4	80.4	85.2	79.1	79.9	77.4	76.2	67.1	65.1
45-64			161.9	145.8	138.7	138.1	135.1	143.0	139.0	146.1	132.4	144.4	137.2	132.9	122.4	117.5
65-74			295.5	260.9	216.7	226.5	251.5	234.2	245.3	246.1	224.6	226.7	230.5	233.8	214.6	192.1
75+			483.4	356.9	360.7	330.6	376.0	330.5	304.1	330.7	324.2	280.5	286.5	335.6	284.2	289.9
Male			236.2	183.9	179.0	170.8	179.1	173.2	169.5	182.6	168.2	164.6	162.6	163.7	147.3	140.7
Female			217.0	177.9	159.5	157.3	172.2	161.6	157.3	156.2	147.1	158.0	154.8	163.9	144.0	133.7
White			264.6	207.6	193.8	178.8	194.7	184.2	181.6	189.7	175.5	176.8	171.9	178.9	158.8	148.4
African American			147.5	137.0	131.5	137.8	152.9	142.9	136.1	143.6	135.3	137.9	135.5	134.3	119.7	118.0
Other race			240.9	158.2	131.6	154.3	133.0	146.4	127.3	118.0	107.2	118.1	128.4	144.2	136.8	124.0
Diabetes			337.1	249.9	222.0	219.3	242.1	232.8	221.5	227.4	209.5	204.6	203.4	226.6	190.6	180.9
Hypertension			183.3	161.7	159.8	141.3	151.3	143.9	138.7	140.8	134.0	141.8	140.1	132.0	126.4	115.5
Glomerulonephritis			128.1	136.3	123.0	120.5	117.0	110.0	116.5	128.4	120.0	135.2	128.0	135.9	122.7	117.2
Other cause			154.2	136.1	139.0	146.6	141.1	141.8	146.0	161.3	145.6	138.6	130.7	125.4	117.5	117.5
<2 years			175.3	133.7	124.6	107.4	115.7	98.5	92.7	107.1	91.0	121.1	106.0	109.4	85.9	77.1
2-<5 years			244.5	185.3	176.3	171.7	191.6	192.5	185.9	186.5	173.2	162.1	171.7	177.4	157.4	149.1
5+ years			289.4	244.7	228.3	235.0	250.1	244.9	243.1	242.3	237.7	215.0	218.7	229.0	218.1	209.3
All			225.7	180.2	169.3	163.7	175.9	168.2	163.8	170.1	157.9	161.4	158.8	163.8	145.5	137.1



Table H.11

**Total patient deaths: hemodialysis patients**

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	*	*	*	11	*	*	*	*	*	11	*	*	.	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	*	*	*	*	*	*	*	13	*	*	*	11	15	*	*	*
15-19	22	28	15	19	22	23	16	23	18	24	19	35	28	26	33	21
20-29	202	234	325	348	367	350	336	346	370	405	412	408	416	415	409	394
30-39	451	707	1,104	1,425	1,484	1,398	1,430	1,567	1,490	1,574	1,542	1,537	1,498	1,465	1,501	1,532
40-49	744	1,074	1,708	2,739	2,862	3,125	3,265	3,673	3,796	4,105	4,265	4,353	4,398	4,520	4,460	4,318
50-59	1,473	2,336	3,104	4,639	4,965	5,449	6,011	6,889	7,335	8,047	8,511	8,952	9,300	9,404	10,077	10,016
60-64	1,078	2,052	2,818	3,895	4,056	4,278	4,758	5,227	5,436	5,726	5,894	6,473	6,621	6,632	6,907	7,014
65-69	1,256	2,315	3,892	5,373	5,784	6,107	6,519	6,995	7,189	7,533	7,618	7,881	7,989	8,068	8,101	8,235
70-79	1,535	3,861	7,020	11,903	13,041	14,134	15,696	17,311	17,871	18,639	19,211	19,528	19,633	19,769	19,525	19,326
80-84	249	802	1,834	3,753	4,160	4,593	5,249	5,860	6,383	7,068	7,684	8,095	8,505	8,876	9,087	9,152
85+	66	286	829	1,919	2,282	2,659	3,126	3,722	4,144	4,497	5,005	5,385	5,653	6,285	6,748	7,207
0-19	36	38	29	40	36	35	36	44	34	48	38	67	41	41	41	41
20-44	971	1,374	2,190	3,003	3,056	3,023	3,142	3,424	3,406	3,537	3,695	3,628	3,597	3,573	3,574	3,494
45-64	2,977	5,029	6,869	10,043	10,678	11,577	12,658	14,278	15,021	16,320	16,929	18,095	18,636	18,863	19,780	19,780
65-74	2,187	4,531	7,660	11,773	12,644	13,391	14,522	15,612	16,000	16,636	17,062	17,295	17,437	17,538	17,359	17,429
75+	919	2,733	5,915	11,175	12,623	14,102	16,068	18,276	19,587	21,101	22,456	23,594	24,343	25,460	26,102	26,491
Male	3,946	7,499	11,805	18,322	19,968	21,380	23,667	26,333	27,713	29,623	31,122	32,779	33,801	34,778	35,746	36,147
Female	3,144	6,206	10,858	17,712	19,069	20,748	22,759	25,301	26,335	28,019	29,058	29,900	30,253	30,697	31,110	31,088
White	5,024	9,390	14,968	22,980	24,801	26,659	29,575	32,624	34,240	36,463	38,382	39,787	40,444	41,569	42,774	43,216
African American	1,894	3,964	6,996	11,625	12,437	13,382	14,499	16,306	16,888	18,130	18,539	19,470	20,098	20,225	20,481	20,455
Native American	20	108	270	409	492	517	552	629	734	706	785	768	753	801	776	786
Asian	*	139	382	900	1,048	1,180	1,310	1,461	1,494	1,664	1,774	1,938	2,021	2,140	2,201	2,301
Other/unknown	144	104	47	120	259	390	490	614	692	679	700	716	738	740	624	477
†Hispanic					3,233	3,876	4,533	5,118	5,539	6,109	6,562	7,025	7,283	7,606	7,728	7,784
†Non-Hisp.					35,804	38,252	41,893	46,516	48,509	51,533	53,618	55,654	56,771	57,869	59,128	59,451
Diabetes	872	3,518	7,702	14,505	16,456	18,235	20,907	23,919	24,995	27,167	28,312	29,740	30,468	31,297	32,053	32,182
Hypertension	930	3,474	7,127	11,756	12,044	12,880	13,872	15,030	15,741	16,528	17,380	18,028	18,656	19,182	19,558	19,609
Glomerulonephritis	741	1,670	2,743	3,556	3,670	3,830	3,985	4,314	4,418	4,493	4,631	4,660	4,520	4,481	4,374	4,321
Cystic kidney	209	443	608	716	745	796	767	827	834	952	916	936	921	912	926	914
Other urologic	105	429	735	859	1,047	1,113	1,190	1,370	1,447	1,549	1,618	1,687	1,707	1,676	1,445	1,333
Other cause	627	1,337	2,108	3,215	3,578	3,722	3,964	4,396	4,570	4,816	5,158	5,293	5,345	5,442	5,926	6,272
Unknown cause	730	1,050	1,173	1,322	1,402	1,480	1,665	1,691	1,943	2,080	2,125	2,236	2,297	2,345	2,406	2,443
Missing	2,876	1,784	467	105	95	72	76	87	100	57	40	99	140	140	168	161
<2 years	4,382	7,844	13,066	19,168	20,704	21,863	24,646	27,425	28,333	29,796	30,572	31,483	31,468	31,932	32,259	32,208
2-<5 years	2,291	3,689	5,808	10,589	11,488	12,479	13,321	14,679	15,343	16,643	17,740	18,439	18,959	19,293	19,798	19,572
5+ years	417	2,172	3,789	6,277	6,845	7,786	8,459	9,530	10,372	11,203	11,868	12,757	13,627	14,250	14,799	15,455
All	7,090	13,705	22,663	36,034	39,037	42,128	46,426	51,634	54,048	57,642	60,180	62,679	64,054	65,475	66,856	67,235
All with unknowns dropped	6,229	12,561	21,448	34,597	37,393	40,269	44,288	49,345	51,436	54,905	57,378	59,755	61,043	62,423	63,842	64,332

Table H.12

**Annual mortality rates: hemodialysis patients**

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	82.7	152.5	195.5	254.3	118.1	106.3	199.9	109.4	255.1	313.8	174.0	262.2	.	72.5	147.2	147.4
5-9	59.2	45.1	43.4	80.4	71.8	31.3	41.5	52.0	38.2	97.9	11.8	93.5	56.7	37.1	48.4	48.9
10-14	42.6	42.8	43.6	31.8	43.8	33.2	60.0	78.9	20.6	23.0	48.4	66.1	37.2	43.7	.	51.3
15-19	37.5	45.7	25.0	38.7	40.3	39.8	31.7	31.4	36.1	40.8	32.3	51.5	43.4	35.1	48.8	31.1
20-29	62.0	63.7	72.7	65.7	65.0	57.2	54.0	54.9	54.6	59.7	61.5	60.8	58.5	58.9	57.1	53.6
30-39	88.5	97.3	114.5	107.0	107.1	96.5	94.3	98.4	90.9	94.1	89.9	87.0	83.1	80.8	80.4	80.0
40-49	115.7	119.5	129.4	128.6	121.7	123.9	119.6	125.0	121.3	125.8	125.6	125.1	122.1	122.1	117.2	109.7
50-59	151.3	173.1	177.4	171.3	168.1	166.8	166.4	172.4	167.9	170.3	168.9	167.8	165.0	158.0	159.9	151.7
60-64	222.1	230.1	229.0	219.1	217.5	213.3	218.2	222.7	215.8	215.4	210.4	219.6	212.1	202.5	201.0	191.4
65-69	282.6	284.6	281.2	260.2	262.7	263.2	265.1	267.4	262.3	262.9	257.0	255.5	250.3	245.3	236.7	229.9
70-79	338.4	365.7	358.3	336.3	340.0	335.7	341.0	348.9	341.9	340.3	337.7	331.7	328.6	324.7	314.8	303.9
80-84	489.3	478.9	447.9	446.3	442.9	442.0	451.7	470.0	448.3	452.4	444.0	433.7	421.3	426.9	419.2	408.1
85+	563.0	606.9	565.1	532.4	545.8	561.4	570.7	576.0	574.3	559.1	567.4	550.9	534.7	539.3	528.2	524.2
Male	178.5	219.0	234.0	227.7	229.3	224.8	227.5	233.4	228.3	230.3	228.7	229.5	226.6	223.6	219.9	212.2
Female	169.4	200.8	226.1	234.2	233.8	236.5	240.5	249.1	244.1	247.0	245.8	243.6	237.7	234.5	229.9	221.9
White	184.9	236.4	267.4	273.2	275.9	274.4	280.3	286.6	280.2	281.1	281.6	279.8	273.4	270.5	266.2	256.6
African American	152.4	168.9	180.9	181.8	179.5	178.6	179.1	187.6	183.4	188.9	184.8	186.4	185.4	181.5	177.4	170.6
Other race	160.6	178.8	184.0	177.7	189.9	193.3	192.9	197.9	194.0	186.8	184.4	180.4	174.6	172.5	166.1	161.0
†Hispanic				184.0	188.7	195.7	197.7	189.6	189.1	188.4	187.8	181.5	177.8	169.7	159.4	
†Non-Hisp.				237.0	235.7	238.7	246.7	242.4	245.7	244.3	243.9	240.3	237.5	234.4	227.2	
Diabetes	264.1	306.3	291.7	268.8	270.8	265.1	270.4	280.4	268.9	271.1	264.8	263.6	256.6	251.5	245.7	234.8
Hypertension	139.1	204.9	233.9	234.1	228.7	231.9	234.7	238.8	236.0	236.7	237.4	235.2	232.9	231.8	229.4	222.0
Glomerulonephritis	88.1	125.8	156.9	155.0	151.0	148.7	146.2	150.3	148.0	147.6	148.9	147.9	142.4	140.0	135.6	133.4
Other cause	204.2	215.2	211.2	214.6	222.1	219.2	219.0	223.5	223.4	227.3	228.8	229.6	227.2	222.6	218.0	211.2
<2 years	195.7	244.5	250.6	236.7	240.4	236.1	242.7	251.1	244.3	247.1	244.8	245.2	238.6	235.9	231.7	223.4
2-<5 years	160.2	200.9	233.2	245.3	240.5	237.3	237.0	241.8	235.5	237.2	237.7	234.2	230.1	226.6	223.2	212.8
5+ years	104.9	147.7	176.9	196.5	196.7	206.6	206.8	214.2	215.4	218.3	216.6	218.2	219.3	216.2	211.7	207.9
All	174.3	210.4	230.2	230.8	231.4	230.4	233.7	240.8	235.7	238.2	236.6	236.0	231.7	228.6	224.5	216.6
<b>ADJUSTED</b>																
0-19	62.8	72.1	61.5	64.6	60.5	58.9	59.3	61.2	57.4	64.2	57.4	74.0	62.6	58.0	54.9	53.3
20-44	108.4	114.7	123.9	116.7	115.6	112.8	110.4	112.1	107.0	106.3	107.6	106.6	103.2	101.4	97.6	92.7
45-64	175.1	200.4	197.1	181.7	179.8	177.1	176.6	181.2	176.1	177.5	175.6	175.9	172.7	168.3	165.6	158.8
65-74	276.1	320.4	304.7	286.4	287.8	287.7	290.3	296.2	289.5	289.5	286.3	283.8	278.4	274.5	265.1	253.2
75+	387.4	437.2	428.1	412.0	417.9	417.0	424.4	439.2	428.5	431.0	425.4	419.2	413.7	411.0	404.9	394.7
Male	226.3	255.6	248.2	225.4	225.8	221.5	221.4	225.4	218.7	218.7	215.7	214.4	210.9	207.8	203.3	195.4
Female	200.3	225.7	220.6	216.3	215.2	215.7	217.0	223.6	217.6	219.1	217.6	216.0	210.4	206.0	201.5	194.1
White	233.3	270.5	261.0	244.6	242.6	239.2	240.6	245.6	237.9	237.3	234.9	232.8	227.4	223.3	218.7	210.8
African American	180.5	194.7	201.2	193.1	193.1	190.9	189.3	195.3	191.2	195.4	192.4	192.5	190.4	187.7	182.4	174.4
Other race	191.1	220.7	192.3	166.6	174.3	176.4	178.7	184.0	179.2	175.1	169.2	164.8	159.6	156.6	150.5	143.1
Diabetes	279.2	314.8	296.9	269.4	269.9	265.1	266.4	274.2	263.6	263.1	256.5	253.4	246.1	240.4	234.1	223.4
Hypertension	164.1	201.4	210.7	205.9	200.6	199.1	200.6	205.3	200.2	200.5	199.3	198.2	194.9	192.8	189.7	183.0
Glomerulonephritis	140.5	163.6	174.9	164.7	164.0	161.5	160.0	163.5	159.2	160.9	161.2	160.9	156.9	153.8	149.5	145.7
Other cause	208.6	225.4	215.7	208.8	213.0	212.2	213.2	217.5	214.9	217.8	218.4	219.2	217.8	215.4	210.3	202.7
<2 years	240.0	260.5	239.7	212.8	212.3	207.1	208.2	213.4	206.8	207.4	205.0	204.4	199.5	196.6	192.5	185.7
2-<5 years	218.3	237.6	238.8	227.9	224.8	218.9	217.0	219.8	211.5	210.5	208.4	205.3	200.0	195.5	191.6	183.3
5+ years	173.6	220.2	227.3	226.2	228.5	233.7	236.8	244.0	239.7	241.8	239.4	237.7	234.6	231.0	225.2	217.2
All	214.0	242.1	235.7	221.1	220.7	218.5	219.3	224.4	218.0	218.7	216.4	214.8	210.4	206.8	202.2	194.6

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



Table H.13

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

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	*	*	*	*	*	*	*	*	*	11	*	*	.	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	.	*	*
10-14	*	*	*	*	*	*	*	*	*	*	*	*	*	.	*	*
15-19	22	28	11	13	17	17	11	17	13	17	*	27	18	16	26	16
20-29	202	234	286	279	296	274	249	261	273	301	306	289	292	292	290	284
30-39	451	707	1,004	1,230	1,234	1,138	1,184	1,260	1,187	1,246	1,232	1,206	1,131	1,078	1,087	1,146
40-49	744	1,073	1,578	2,382	2,440	2,641	2,795	3,090	3,129	3,432	3,573	3,581	3,504	3,617	3,510	3,380
50-59	1,473	2,336	2,974	4,284	4,552	4,914	5,355	6,138	6,420	7,008	7,378	7,680	7,863	7,846	8,377	8,272
60-64	1,078	2,052	2,755	3,747	3,878	4,024	4,450	4,869	5,016	5,204	5,352	5,854	5,818	5,802	5,996	6,067
65-69	1,256	2,315	3,868	5,241	5,608	5,909	6,306	6,702	6,840	7,155	7,171	7,364	7,302	7,357	7,268	7,366
70-79	1,535	3,861	7,011	11,837	12,949	14,025	15,537	17,114	17,589	18,353	18,832	19,089	19,047	19,085	18,797	18,469
80-84	249	802	1,834	3,750	4,157	4,589	5,244	5,854	6,370	7,050	7,656	8,063	8,472	8,827	9,038	9,078
85+	66	286	829	1,919	2,282	2,659	3,126	3,722	4,144	4,495	5,001	5,383	5,647	6,277	6,743	7,192
0-19	36	38	22	31	27	26	27	31	27	36	22	51	29	25	31	35
20-44	971	1,373	1,987	2,572	2,546	2,482	2,584	2,791	2,719	2,832	2,959	2,881	2,744	2,720	2,668	2,623
45-64	2,977	5,029	6,610	9,350	9,854	10,509	11,449	12,827	13,306	14,359	14,882	15,729	15,864	15,915	16,592	16,526
65-74	2,187	4,531	7,627	11,583	12,392	13,111	14,192	15,178	15,449	16,045	16,332	16,455	16,311	16,356	16,007	15,993
75+	919	2,733	5,915	11,164	12,604	14,071	16,021	18,214	19,494	21,008	22,328	23,444	24,157	25,190	25,839	26,112
Male	3,946	7,498	11,485	17,571	18,993	20,256	22,404	24,787	25,944	27,641	28,970	30,328	30,953	31,663	32,368	32,580
Female	3,144	6,206	10,676	17,129	18,430	19,943	21,869	24,254	25,051	26,639	27,553	28,232	28,152	28,543	28,769	28,709
White	5,024	9,390	14,645	22,161	23,795	25,537	28,296	31,099	32,496	34,542	36,317	37,447	37,624	38,625	39,502	39,791
African American	1,894	3,963	6,832	11,164	11,896	12,681	13,758	15,375	15,773	16,903	17,181	17,981	18,297	18,275	18,448	18,361
Native American	20	108	266	390	469	491	524	597	685	670	735	715	687	735	701	710
Asian	*	139	371	866	1,008	1,116	1,219	1,380	1,381	1,509	1,635	1,759	1,802	1,890	1,938	2,009
Other/unknown	144	104	47	119	255	374	476	590	660	656	655	658	695	681	548	418
†Hispanic					3,101	3,709	4,290	4,824	5,230	5,734	6,125	6,509	6,599	6,871	6,952	6,917
†Non-Hisp.					34,322	36,490	39,983	44,217	45,765	48,546	50,398	52,051	52,506	53,335	54,185	54,372
Diabetes	872	3,518	7,545	14,059	15,871	17,514	20,038	22,853	23,734	25,757	26,775	28,017	28,352	28,970	29,528	29,505
Hypertension	930	3,474	7,022	11,452	11,666	12,419	13,394	14,426	15,073	15,757	16,555	17,096	17,538	18,028	18,282	18,309
Glomerulonephritis	741	1,670	2,627	3,280	3,350	3,481	3,615	3,891	3,868	3,930	4,047	3,960	3,727	3,653	3,505	3,436
Cystic kidney	209	443	586	642	664	702	660	723	697	810	758	766	733	716	690	683
Other urologic	105	429	728	832	1,017	1,081	1,148	1,320	1,371	1,467	1,517	1,583	1,593	1,548	1,316	1,209
Other cause	627	1,337	2,046	3,066	3,407	3,502	3,735	4,109	4,288	4,502	4,777	4,905	4,862	4,944	5,374	5,696
Unknown cause	730	1,049	1,156	1,268	1,356	1,431	1,609	1,633	1,869	2,001	2,054	2,136	2,164	2,208	2,277	2,293
Missing	2,876	1,784	451	101	92	69	74	86	95	56	40	97	136	139	165	158
<2 years	4,382	7,844	12,918	18,856	20,333	21,445	24,178	26,926	27,750	29,205	30,006	30,850	30,762	31,175	31,459	31,398
2-<5 years	2,291	3,689	5,624	10,190	11,002	11,940	12,715	13,898	14,481	15,624	16,603	17,203	17,457	17,803	18,136	17,921
5+ years	417	2,171	3,619	5,654	6,088	6,814	7,380	8,217	8,764	9,451	9,914	10,507	10,886	11,228	11,542	11,970
All	7,090	13,704	22,161	34,700	37,423	40,199	44,273	49,041	50,995	54,280	56,523	58,560	59,105	60,206	61,137	61,289
All with unknowns dropped	6,229	12,561	20,963	33,318	35,829	38,405	42,205	46,833	48,489	51,643	53,836	55,792	56,270	57,350	58,327	58,592

Table H.14

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

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
0-4	153.0	250.8	297.4	514.7	199.1	113.6	405.4	165.6	551.5	617.3	302.4	493.4	445.1	193.5	262.3	
5-9	101.9	117.6	133.9	279.6	247.7	141.7	173.4	193.8	78.2	139.2	28.5	261.1	325.1	193.9	106.5	
10-14	70.6	99.5	146.8	86.7	107.1	113.4	159.6	236.7	106.9	90.9	125.7	177.2	152.5	114.2	126.0	
15-19	58.8	89.6	65.2	100.9	110.2	107.5	75.6	93.7	89.6	89.6	65.7	133.5	112.0	83.0	111.2	58.5
20-29	81.9	101.8	150.6	143.3	144.2	128.4	116.6	118.5	114.8	126.8	132.2	122.5	111.6	105.5	98.0	86.1
30-39	104.0	133.1	180.8	175.0	173.1	156.5	159.2	163.1	152.9	162.5	158.8	152.7	137.4	128.8	120.8	118.2
40-49	123.5	142.6	176.6	177.7	168.0	171.9	170.5	178.2	171.8	181.9	184.3	181.7	171.4	170.4	158.7	142.4
50-59	153.1	184.1	205.6	208.8	206.5	205.0	206.2	218.8	213.5	219.2	219.6	219.0	212.9	200.6	199.8	183.1
60-64	222.3	234.4	241.5	240.5	241.2	237.4	245.8	254.1	249.2	251.3	248.8	263.7	251.1	240.2	235.6	222.4
65-69	282.7	285.7	288.5	269.7	273.5	276.0	281.4	286.3	282.8	287.5	284.1	284.4	277.2	274.3	264.6	255.8
70-79	338.5	365.9	359.6	338.8	343.0	339.3	345.0	353.9	347.5	348.0	345.7	340.9	338.4	335.4	326.3	314.4
80-84	489.3	478.9	448.1	446.4	443.2	442.2	452.1	470.8	448.8	453.1	444.4	434.9	422.7	428.5	421.3	409.9
85+	563.0	606.9	565.1	532.5	545.9	561.5	570.9	576.4	574.9	559.7	567.7	551.3	535.1	539.9	529.2	524.9
Male	191.2	245.2	282.1	279.1	281.5	277.5	283.0	292.0	287.0	291.3	290.9	292.1	286.9	281.7	273.9	259.0
Female	180.1	221.1	259.2	269.6	271.1	274.7	281.6	293.6	288.4	294.5	294.9	293.3	283.3	279.4	271.9	259.8
White	198.1	263.0	314.8	321.5	325.6	325.5	334.4	343.7	337.3	340.1	342.7	341.0	331.1	327.5	319.6	304.1
African American	161.1	186.3	210.4	217.2	215.9	215.2	218.4	230.0	225.6	234.6	230.1	232.9	229.2	222.9	216.0	204.1
Other race	176.0	209.9	235.2	222.5	237.8	240.2	240.9	253.0	247.6	241.9	244.0	239.5	230.8	226.0	213.0	202.4
†Hispanic				235.4	241.9	251.5	255.1	247.5	248.6	249.0	249.3	236.7	231.1	217.8	198.3	
†Non-Hisp.				280.7	280.1	286.1	297.6	293.1	299.2	299.2	299.2	292.7	288.5	282.1	270.0	
Diabetes	269.6	318.3	318.8	296.2	299.2	294.2	301.9	315.4	304.2	309.7	305.0	305.2	295.3	289.1	281.2	265.2
Hypertension	147.1	222.3	265.6	271.5	266.5	271.4	277.4	284.0	283.5	285.6	287.9	285.3	281.4	280.0	274.5	262.4
Glomerulonephritis	102.2	155.2	212.2	217.7	214.2	214.5	215.1	224.3	217.5	220.4	226.5	223.0	210.3	205.3	194.6	187.9
Other cause	213.5	237.7	255.7	271.2	284.1	281.8	284.7	292.9	294.1	303.0	306.2	309.7	304.3	296.7	286.0	271.7
<2 years	208.4	268.8	296.8	281.2	286.5	283.1	292.4	304.9	298.1	303.0	300.7	300.8	291.8	287.4	280.1	264.2
2-<5 years	170.0	222.3	266.5	283.5	279.4	276.5	278.7	285.2	280.3	284.1	287.6	285.1	277.5	273.2	265.8	251.6
5+ years	115.9	168.7	209.4	240.6	242.3	255.5	258.9	270.1	269.4	278.6	279.2	282.5	279.8	274.3	265.8	258.9
All	186.1	233.7	270.6	274.3	276.3	276.1	282.3	292.8	287.6	292.9	292.8	292.7	285.2	280.6	273.0	259.4
<b>ADJUSTED</b>																
0-19	119.2	130.6	152.3	136.4	134.3	133.1	141.0	134.6	139.8	114.2	157.1	142.4	128.1	112.2	99.5	
20-44	140.9	186.5	180.9	177.7	173.7	172.4	177.0	169.8	171.3	175.4	175.4	163.8	158.0	144.2	130.4	
45-64	209.4	223.4	216.7	217.2	216.2	218.1	226.7	222.4	227.5	229.4	231.4	224.5	216.9	209.7	196.6	
65-74	321.6	305.8	291.0	293.6	294.8	299.9	307.7	301.7	305.6	305.6	305.5	299.1	297.0	287.0	274.2	
75+	438.7	422.3	407.9	414.1	413.2	421.1	435.6	424.0	428.5	424.1	418.6	411.7	409.8	404.2	393.2	
Male	266.6	275.8	258.6	259.6	255.3	257.0	263.9	257.4	260.3	259.3	259.7	253.2	248.1	239.5	225.8	
Female	235.1	239.8	242.3	242.4	244.3	248.0	257.7	251.2	255.6	256.9	257.3	247.6	241.3	232.5	221.1	
White	281.7	288.3	277.7	276.5	274.1	278.0	286.5	279.0	281.3	281.9	281.7	272.0	266.1	256.4	242.9	
African American	203.4	219.4	219.2	220.0	217.6	217.1	224.8	219.9	227.4	225.6	227.5	223.1	218.3	210.2	198.3	
Other race	230.5	218.9	195.9	205.9	205.9	209.5	218.6	215.5	214.1	211.3	207.1	200.0	194.6	183.3	169.1	
Diabetes	324.3	320.8	296.6	297.7	293.9	296.6	306.6	295.7	298.5	294.9	294.6	283.3	275.2	264.8	248.6	
Hypertension	211.2	233.1	234.0	227.8	226.3	230.2	236.8	233.2	235.6	236.8	236.7	230.8	227.9	220.7	209.6	
Glomerulonephritis	174.8	202.1	197.4	197.1	197.3	197.3	204.4	198.4	202.5	206.5	206.7	198.1	191.9	182.8	174.8	
Other cause	237.9	243.8	247.3	254.8	253.0	256.1	264.0	261.8	268.7	271.5	274.5	270.0	265.9	255.6	241.7	
<2 years	273.0	273.1	249.0	249.2	244.1	247.4	256.1	249.6	252.7	251.6	251.9	243.5	238.7	230.6	217.9	
2-<5 years	247.9	261.9	258.0	255.8	250.2	249.9	254.8	246.8	248.2	248.7	247.2	238.4	232.3	224.2	211.3	
5+ years	228.3	240.9	248.1	251.3	257.2	262.2	272.2	267.0	273.0	274.0	275.4	268.7	263.0	253.2	241.0	
All	252.3	259.7	251.2	251.7	250.0	252.8	261.0	254.5	258.1	258.1	258.3	250.4	244.9	236.2	223.5	

Table H.15

**Total patient deaths: hemodialysis patients, on transplant wait list**

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4			*	.	.	.	*	*	*	.	.	.	.	.	.	.
5-9			.	.	.	.	*	.	*	.	.	.	.	*	.	*
10-14			.	.	.	.	*	*	.	.	*	*	*	*	.	.
15-19			*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29			22	28	27	36	38	45	38	40	46	52	63	69	55	42
30-39			58	85	121	121	137	154	115	145	136	169	205	204	229	194
40-49			61	161	197	213	226	271	275	272	298	357	462	450	484	506
50-59			59	160	190	281	325	338	409	506	516	610	760	844	886	926
60-64			30	64	79	121	143	159	197	222	264	303	425	425	504	497
65-69			14	57	80	102	82	118	132	162	196	262	359	357	398	445
70-79			*	20	36	40	56	77	82	93	124	197	252	277	316	326
80-84			.	*	*	*	.	*	.	*	*	12	12	14	18	22
85+			.	.	.	.	.	.	.	*	*	.	*	*	.	*
0-19			*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44			114	189	231	253	281	306	275	291	316	347	461	444	476	428
45-64			116	309	383	519	588	661	759	894	944	1,144	1,454	1,548	1,682	1,737
65-74			20	75	114	132	129	174	201	235	293	417	555	556	638	686
75+			.	*	*	12	*	22	13	25	35	54	69	96	94	110
Male			161	327	422	532	576	696	711	857	954	1,187	1,427	1,556	1,710	1,778
Female			92	254	312	388	437	473	540	589	641	780	1,117	1,092	1,182	1,185
White			170	348	442	515	594	684	700	814	891	1,102	1,439	1,489	1,649	1,673
African American			77	206	259	338	337	420	453	523	592	704	926	949	1,027	1,053
Native American			*	*	*	19	16	12	17	16	17	28	40	29	32	34
Asian			*	20	21	37	55	39	57	79	64	100	115	147	139	160
Other/unknown			.	.	*	11	11	14	24	14	31	33	24	34	45	43
†Hispanic					63	87	131	145	138	183	232	275	374	405	418	454
†Non-Hisp.					671	833	882	1,024	1,113	1,263	1,363	1,692	2,170	2,243	2,474	2,509
Diabetes			80	199	278	372	472	526	574	684	765	894	1,171	1,269	1,393	1,458
Hypertension			53	128	168	216	195	236	262	325	351	413	529	538	588	596
Glomerulonephritis			58	115	146	147	149	185	185	203	214	306	349	369	373	387
Cystic kidney			*	30	29	38	33	31	46	41	56	79	80	88	118	106
Other urologic			*	11	*	14	21	22	36	28	38	46	55	69	60	56
Other cause			28	71	76	111	116	141	103	138	140	180	280	245	291	270
Unknown cause			*	24	25	20	27	28	43	26	31	47	77	69	67	88
Missing			*	*	*	*	.	.	*	*	.	*	*	*	*	*
<2 years			67	164	202	239	281	291	300	330	307	335	401	404	460	477
2-<5 years			93	206	273	346	375	453	492	626	729	802	966	975	1,084	1,082
5+ years			93	211	259	335	357	425	459	490	559	830	1,177	1,269	1,348	1,404
All			253	581	734	920	1,013	1,169	1,251	1,446	1,595	1,967	2,544	2,648	2,892	2,963
All with unknowns dropped			245	557	707	889	975	1,127	1,184	1,406	1,534	1,887	2,443	2,545	2,781	2,834

Table H.16

**Annual mortality rates: hemodialysis patients, on transplant wait list**

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4			364.9			168.3	137.4	118.8	149.3							
5-9									52.4					58.1		55.8
10-14				18.6			40.5	37.8		19.5	55.6	16.8	26.5	13.9		
15-19			15.3	21.1	20.0	19.3	21.6	16.6	10.1	10.7	14.8	20.9	18.8	7.7	16.1	12.2
20-29			27.6	24.7	22.4	24.1	23.9	26.5	20.4	20.4	24.1	25.6	27.8	30.7	23.3	18.6
30-39			44.3	34.3	46.4	44.0	41.1	43.3	30.2	33.2	29.7	33.1	40.4	38.2	42.4	34.5
40-49			42.5	52.5	54.2	55.1	51.0	53.7	47.2	43.4	43.5	48.3	59.1	54.4	54.8	55.1
50-59			69.5	66.7	63.4	83.2	77.1	67.2	71.4	70.7	63.7	64.6	75.5	78.8	76.3	75.6
60-64			117.4	82.7	84.2	96.8	94.5	88.1	88.2	77.6	78.4	79.5	103.8	94.4	106.1	91.2
65-69			106.5	115.4	134.5	133.9	89.4	98.0	92.4	86.1	84.9	95.8	117.5	112.2	106.7	108.5
70-79			219.7	128.7	170.9	141.4	155.1	152.2	110.8	98.5	106.8	144.6	139.2	139.5	142.0	124.5
80-84				384.1	343.1	301.1		135.3		181.0	156.2	164.5	200.1	183.3	178.0	176.7
85+										292.2	481.9		287.6	538.2		141.6
Male			55.9	51.1	56.7	61.8	58.1	61.0	54.4	56.2	56.1	62.0	69.1	70.8	72.5	70.3
Female			43.5	56.0	59.1	67.2	62.4	59.3	59.0	54.5	53.0	57.5	77.3	72.3	72.9	68.3
White			58.0	61.7	68.1	71.5	69.8	71.7	63.4	63.6	62.6	69.7	83.8	81.7	83.5	78.9
African American			43.0	44.9	48.4	54.6	47.4	50.4	48.1	47.5	48.4	51.3	64.0	62.3	63.7	60.7
Other race			21.9	36.7	35.6	65.1	62.8	40.8	54.6	48.0	42.4	50.0	51.8	57.7	55.0	57.7
†Hispanic					41.6	47.5	57.5	55.0	42.1	46.9	50.1	51.8	61.6	60.1	55.3	54.9
†Non-Hisp.					59.8	66.4	60.3	61.1	58.7	57.1	55.7	61.7	74.7	73.9	76.6	73.0
Diabetes			106.5	90.2	102.0	112.0	113.3	107.2	95.3	92.1	88.8	88.7	105.4	105.2	105.4	100.0
Hypertension			47.5	45.1	51.7	59.0	48.5	48.6	48.6	50.3	48.7	51.1	60.5	57.7	59.0	56.6
Glomerulonephritis			35.3	36.4	39.8	37.2	31.7	35.6	32.2	32.7	32.2	41.6	46.9	47.4	46.6	46.9
Other cause			41.8	50.1	45.1	53.0	48.4	49.7	45.6	39.6	40.4	49.7	64.8	60.1	62.8	56.6
<2 years			36.0	43.6	49.5	51.4	51.0	47.9	43.2	43.1	39.7	41.3	47.0	45.1	46.1	43.9
2-<5 years			62.9	59.0	61.3	68.1	62.8	63.9	60.1	63.2	63.9	62.7	71.3	70.0	73.7	68.7
5+ years			55.3	57.6	62.1	72.3	65.7	68.3	64.3	57.7	56.2	70.3	90.1	89.4	88.8	87.2
All			50.6	53.1	57.7	64.0	59.9	60.3	56.3	55.5	54.8	60.1	72.5	71.4	72.6	69.5
<b>ADJUSTED</b>																
0-19			64.0	29.7	28.9	34.1	56.1	58.9	41.1	34.0	44.8	38.5	38.5	28.9	24.4	24.2
20-44			56.9	45.6	51.6	56.1	55.9	55.1	48.3	42.7	41.5	41.1	49.9	47.8	49.4	45.7
45-64			89.1	78.3	78.4	86.9	81.7	79.9	73.5	69.8	63.9	67.0	79.1	76.6	77.3	73.1
65-74			147.8	131.5	153.4	157.5	125.5	119.9	106.2	95.4	89.6	105.0	125.0	120.6	118.6	111.5
75+			65.8	159.0	124.9	193.3	139.8	188.2	124.6	110.3	111.1	134.7	153.7	180.2	160.4	153.3
Male			93.9	101.9	96.0	109.8	93.1	100.2	79.7	75.5	71.5	79.8	90.1	91.6	89.3	85.1
Female			78.5	78.8	87.2	102.3	89.4	89.5	78.3	69.8	65.7	72.2	88.6	85.6	84.5	77.4
White			103.4	103.0	105.1	117.8	103.1	109.8	88.3	80.7	75.1	84.7	98.3	97.5	94.8	88.5
African American			65.1	69.2	72.2	89.1	69.2	74.0	63.5	60.3	59.5	63.1	76.0	76.2	75.5	71.9
Other race			65.3	90.4	67.4	88.5	88.2	68.7	68.2	59.9	54.1	60.5	70.6	68.7	65.2	64.4
Diabetes			123.5	128.0	127.8	145.2	126.6	134.5	115.1	102.4	95.7	101.6	118.2	117.1	118.1	109.9
Hypertension			78.4	73.8	80.4	99.2	89.4	88.3	67.5	66.0	61.7	68.3	78.8	74.9	72.0	68.1
Glomerulonephritis			58.4	70.2	76.3	83.0	67.0	64.9	52.7	49.8	49.4	60.3	69.6	73.2	64.6	62.3
Other cause			78.7	71.5	63.9	73.9	63.9	75.2	63.7	57.5	54.5	62.5	76.4	80.8	80.1	76.4
<2 years			53.5	65.8	67.5	75.0	65.1	66.9	54.3	50.4	47.4	51.1	57.6	55.7	54.0	50.3
2-<5 years			97.7	95.2	91.7	104.7	87.6	92.7	76.3	74.4	73.9	78.9	87.9	85.0	84.5	78.9
5+ years			119.9	121.1	125.0	153.4	132.0	141.2	115.6	102.2	92.7	108.3	133.5	138.0	132.9	125.9
All			87.2	90.5	91.7	106.3	91.3	95.5	79.0	72.9	68.7	76.2	89.3	88.8	86.7	81.5



Table H.17

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

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	.	*	.	.	.	.	.	.	.	.	*	.	.	*	.
5-9	*	.	.	.	.	*	*	.	*	*	*	*	.	*	.	.
10-14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.
15-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-29	17	25	56	51	54	51	55	58	73	80	74	69	65	69	76	76
30-39	31	84	134	172	183	185	184	184	190	219	195	177	173	214	191	200
40-49	24	81	202	262	300	369	329	375	419	443	437	463	453	447	439	446
50-59	25	57	163	279	270	305	371	421	423	492	532	564	593	592	638	631
60-64	*	31	57	91	103	129	155	163	171	206	200	233	259	256	238	285
65-69	.	*	26	91	78	87	112	116	158	152	145	178	198	203	211	238
70-79	*	*	11	36	56	63	86	83	114	133	157	143	167	205	225	204
80-84	*	*	.	*	*	*	*	*	*	*	12	*	11	16	12	16
85+	.	.	.	*	.	.	.	.	.	*	.	*	*	.	*	*
0-19	*	*	*	*	*	*	*	11	*	*	12	*	*	11	*	*
20-44	62	147	287	339	380	412	395	396	450	486	486	435	440	477	451	449
45-64	43	131	325	516	530	627	699	805	826	954	952	1,071	1,103	1,101	1,131	1,189
65-74	*	13	35	120	116	129	172	174	236	246	258	282	323	339	367	371
75+	*	*	*	13	19	22	29	28	41	45	56	46	54	85	84	90
Male	73	212	425	572	650	699	769	854	917	1,045	1,030	1,048	1,140	1,179	1,164	1,255
Female	39	86	233	423	405	498	532	560	640	694	734	795	786	834	875	848
White	87	210	426	622	693	746	828	858	959	1,089	1,086	1,120	1,153	1,202	1,228	1,275
African American	21	82	212	348	333	417	441	512	541	594	616	651	700	728	728	743
Native American	.	.	*	12	*	*	12	12	23	12	20	19	21	23	27	20
Asian	.	*	12	13	20	24	20	32	33	43	42	51	50	55	51	61
Other/unknown	*	*	*	.	.	*	.	.	*	*	.	*	*	*	*	*
†Hispanic					75	87	105	121	121	144	151	147	159	194	187	207
†Non-Hisp.					980	1,110	1,196	1,293	1,436	1,595	1,613	1,696	1,767	1,819	1,852	1,896
Diabetes	19	52	139	206	250	260	326	361	393	423	432	463	495	539	563	561
Hypertension	*	49	124	240	241	289	295	357	353	398	412	420	466	451	473	481
Glomerulonephritis	24	67	190	282	285	335	338	361	439	484	461	533	527	565	541	566
Cystic kidney	*	16	34	57	72	91	86	89	93	108	98	101	117	112	112	121
Other urologic	*	*	*	23	23	28	37	36	51	53	72	57	53	63	60	66
Other cause	*	33	99	137	142	164	177	182	195	232	253	225	224	245	254	262
Unknown cause	*	23	41	48	40	30	40	27	32	41	36	44	43	38	35	45
Missing	38	50	27	*	*	.	*	*	*	.	.	.	*	.	*	*
<2 years	25	18	24	15	16	*	*	*	*	12	*	14	*	*	*	*
2-<5 years	66	105	157	115	134	108	124	130	111	122	108	115	119	103	95	107
5+ years	21	175	477	865	905	1,079	1,168	1,276	1,436	1,605	1,648	1,714	1,801	1,904	1,938	1,989
All	112	298	658	995	1,055	1,197	1,301	1,414	1,557	1,739	1,764	1,843	1,926	2,013	2,039	2,103
All with unknowns dropped	100	274	615	947	1,015	1,166	1,261	1,387	1,524	1,697	1,728	1,797	1,881	1,970	1,999	2,054

Table H.18

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

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	.	176.0	.	.	586.3	.	.	.	822.6	200.1	386.9	.	.	532.4	.
5-9	423.9	.	.	.	.	.	62.1	.	97.5	237.3	.	95.2	.	256.1	.	.
10-14	34.8	18.3	54.3	43.6	62.8	12.1	64.6	173.1	.	.	142.5	59.0	.	19.5	.	.
15-19	30.4	37.3	28.1	36.5	40.0	22.4	35.0	18.2	23.1	43.6	37.0	44.2	26.0	47.7	54.7	23.3
20-29	50.3	34.6	46.9	43.2	39.1	41.1	43.8	39.2	50.2	66.9	45.9	59.9	50.3	52.5	49.6	53.1
30-39	82.8	78.2	78.3	64.0	70.4	71.3	65.6	65.9	72.3	73.1	66.3	53.0	56.7	65.8	60.7	63.7
40-49	90.8	89.4	107.1	99.0	98.5	112.4	97.8	106.1	110.9	116.4	114.0	114.6	106.2	104.5	101.5	99.7
50-59	158.8	94.8	154.6	149.1	138.1	146.8	160.9	168.7	159.0	163.2	165.0	160.6	161.9	152.4	155.6	146.0
60-64	262.1	248.3	191.8	176.7	170.6	201.9	214.1	227.8	204.0	233.7	224.4	237.9	239.4	217.0	201.1	223.9
65-69	.	399.7	220.3	298.8	231.6	235.5	296.1	237.3	315.9	275.9	222.3	258.4	267.4	258.4	240.9	226.8
70-79	.	414.3	238.0	273.2	256.3	322.9	342.7	316.9	369.0	359.5	397.4	318.7	342.8	356.6	344.5	297.9
80-84	.	.	.	.	172.1	263.0	501.7	564.8	570.0	566.1	977.3	403.3	594.1	568.3	348.6	310.8
85+	.	.	.	.	.	.	.	.	.	389.0	.	321.5	239.8	.	684.0	385.9
Male	87.0	88.7	101.4	93.5	99.5	103.2	107.3	113.6	117.2	128.5	117.8	116.0	120.9	120.7	115.6	118.5
Female	88.9	60.9	90.8	110.6	95.8	115.4	113.8	113.7	123.1	126.3	131.5	133.3	127.4	129.5	132.3	124.7
White	98.3	85.8	102.3	109.8	114.8	120.6	124.0	123.0	132.9	143.0	138.7	136.4	135.5	134.8	136.1	136.1
African American	59.8	65.9	88.0	87.9	74.4	91.5	92.1	102.0	101.1	108.2	104.4	106.7	109.3	110.7	105.2	102.6
Other race	90.0	62.3	109.1	70.4	78.3	80.5	78.4	93.7	110.1	101.5	94.4	95.1	96.4	109.4	99.4	97.4
†Hispanic	.	.	.	.	74.3	72.0	80.8	88.3	83.0	96.1	96.9	84.9	85.0	99.5	91.2	90.8
†Non-Hisp.	.	.	.	.	100.6	111.8	113.1	116.6	123.8	131.4	126.4	127.5	128.4	127.4	126.4	125.2
Diabetes	268.0	207.6	243.0	211.2	231.9	219.9	247.7	260.2	259.0	261.2	249.0	236.3	243.7	249.4	242.5	234.3
Hypertension	54.1	72.8	90.4	104.5	95.6	109.6	105.9	124.7	113.5	125.2	120.6	121.7	128.3	117.3	119.8	118.3
Glomerulonephritis	51.5	45.5	74.8	76.6	74.2	82.7	76.9	79.8	95.8	97.7	91.5	101.0	95.0	102.1	97.1	97.9
Other cause	104.8	94.3	91.9	92.0	87.8	101.2	106.4	96.6	103.1	117.5	117.4	105.1	105.6	102.6	102.4	101.5
<2 years	86.9	90.8	86.9	88.8	104.2	68.1	95.5	90.7	116.7	144.6	84.0	183.5	84.6	88.0	95.3	95.1
2-<5 years	79.9	81.2	104.5	84.0	99.8	90.6	103.4	123.6	111.9	131.0	116.2	125.9	129.5	125.5	107.2	111.1
5+ years	124.4	76.3	96.0	102.5	97.8	110.1	110.5	113.0	120.1	127.4	123.9	122.4	123.3	124.2	123.0	121.5
All	87.6	78.7	97.4	100.2	98.1	107.9	109.8	113.7	119.5	127.7	123.3	122.9	123.4	124.1	122.2	120.9
<b>ADJUSTED</b>																
0-19			60.1	63.5	95.9	65.6	65.1	75.0	73.8	96.3	89.4	107.2	58.4	66.7	70.6	53.7
20-44			104.7	91.6	96.7	93.2	90.4	87.5	94.3	104.7	93.0	98.6	89.1	87.5	76.9	77.6
45-64			172.9	151.4	147.5	142.0	147.1	156.3	164.6	177.8	150.7	171.5	157.5	148.3	138.3	138.7
65-74			273.5	297.7	226.9	220.5	259.7	252.5	280.7	289.4	245.2	259.9	255.8	251.1	231.6	214.2
75+			311.1	494.5	438.6	358.6	420.8	384.3	373.3	426.7	390.5	337.4	317.6	374.0	298.6	315.9
Male			203.7	221.1	197.8	177.6	196.0	191.2	201.0	226.5	193.6	195.7	184.3	182.4	163.3	163.4
Female			201.3	210.5	183.6	163.0	187.4	182.4	191.7	195.2	172.5	191.6	179.7	185.7	162.2	156.5
White			233.6	245.3	214.4	183.6	213.3	206.6	216.8	234.6	199.9	209.9	195.6	201.2	176.6	172.4
African American			147.6	169.5	156.5	152.9	167.7	161.7	164.0	180.7	161.7	169.9	158.5	149.7	134.7	138.6
Other race			186.1	171.4	132.9	137.8	132.7	152.9	157.6	151.6	133.7	141.1	144.1	158.1	152.0	145.7
Diabetes			295.7	300.6	242.3	219.0	261.4	259.9	260.7	274.0	237.7	239.6	231.1	257.1	212.2	208.9
Hypertension			161.2	177.0	177.7	153.7	163.8	157.5	160.8	171.1	150.9	169.3	159.5	145.7	138.6	133.1
Glomerulonephritis			118.2	163.5	148.1	137.2	130.5	121.3	144.2	170.4	144.2	166.7	143.8	148.2	134.0	137.7
Other cause			149.5	156.0	160.0	148.6	155.1	159.0	180.2	209.2	175.6	170.3	149.2	140.2	130.9	133.9
<2 years			169.5	193.8	172.0	134.0	151.2	138.9	161.8	190.6	141.1	186.6	152.1	148.1	122.7	127.2
2-<5 years			214.2	205.4	184.2	167.0	196.1	204.5	199.2	208.4	190.2	181.7	187.5	191.6	165.4	157.8
5+ years			237.2	256.8	222.7	221.9	249.2	241.8	242.8	243.8	234.7	213.2	217.3	228.2	214.5	205.8
All			201.8	214.5	190.0	169.7	192.0	187.6	196.4	211.6	183.0	193.4	182.0	184.0	162.3	159.7



Table H.19

**Total patient deaths: CAPD/CCPD patients**

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	*	*	11	13	19	*	16	17	19	14	12	19	15	14	13
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15-19	.	*	*	18	*	12	12	14	*	*	11	*	*	*	*	*
20-29	*	38	64	79	86	65	70	74	50	56	56	67	59	49	43	43
30-39	*	148	229	365	346	312	255	235	231	194	220	169	163	147	136	129
40-49	13	198	373	683	700	632	601	536	511	495	471	429	445	366	340	353
50-59	23	408	593	1,076	1,091	1,090	1,066	1,014	959	932	897	881	875	812	795	733
60-64	11	294	522	729	817	796	733	679	634	594	558	551	576	523	509	465
65-69	11	306	601	1,034	1,025	982	900	786	775	756	679	648	610	576	588	554
70-79	19	405	873	1,693	1,840	1,695	1,668	1,573	1,477	1,354	1,301	1,246	1,268	1,215	1,211	1,042
80-84	*	77	167	411	414	403	377	357	326	352	376	378	377	374	391	385
85+	*	23	67	140	156	189	171	150	174	175	163	199	188	207	213	236
0-19	*	25	25	38	37	42	29	46	33	34	31	35	39	31	37	27
20-44	17	278	464	748	735	640	587	528	498	462	456	403	395	336	309	328
45-64	42	808	1,317	2,184	2,305	2,255	2,138	2,010	1,887	1,809	1,746	1,694	1,723	1,561	1,514	1,395
65-74	23	554	1,106	2,059	2,088	1,965	1,830	1,658	1,606	1,497	1,374	1,322	1,301	1,236	1,212	1,089
75+	16	257	602	1,219	1,347	1,304	1,286	1,208	1,146	1,140	1,145	1,149	1,142	1,136	1,191	1,128
Male	51	1,010	1,920	3,382	3,505	3,280	3,078	2,810	2,714	2,594	2,476	2,507	2,486	2,299	2,246	2,196
Female	48	912	1,594	2,866	3,007	2,926	2,792	2,640	2,456	2,348	2,276	2,096	2,114	2,001	2,017	1,771
White	81	1,524	2,760	4,731	4,874	4,733	4,449	4,087	3,872	3,684	3,586	3,412	3,407	3,245	3,246	3,002
African American	15	348	661	1,327	1,364	1,201	1,156	1,067	1,013	997	913	915	934	843	787	734
Native American	*	26	50	65	81	63	63	64	50	53	50	64	57	43	51	41
Asian	.	18	37	111	156	155	136	166	161	148	150	158	150	133	140	160
Other/unknown	*	*	*	14	37	54	66	66	74	60	53	54	52	36	39	30
†Hispanic					392	487	498	442	455	498	472	485	464	406	384	355
†Non-Hisp.					6,120	5,719	5,372	5,008	4,715	4,444	4,280	4,118	4,136	3,894	3,879	3,612
Diabetes	42	633	1,395	2,756	3,016	2,975	2,884	2,653	2,497	2,400	2,307	2,159	2,161	2,024	2,018	1,835
Hypertension	19	465	880	1,707	1,633	1,531	1,368	1,261	1,212	1,211	1,089	1,143	1,149	1,070	1,103	1,033
Glomerulonephritis	*	260	505	714	794	733	704	667	568	518	517	524	484	467	435	376
Cystic kidney	*	67	105	183	155	163	157	136	126	117	121	101	109	101	106	111
Other urologic	*	48	77	102	131	128	114	117	137	123	118	100	139	125	91	89
Other cause	17	179	327	579	582	489	463	449	463	412	427	425	411	357	377	382
Unknown cause	*	130	143	193	186	181	175	162	160	156	165	146	136	151	126	136
Missing	*	140	82	14	15	*	*	*	*	*	*	*	11	*	*	*
<2 years	94	1,335	2,217	3,484	3,546	3,303	3,016	2,779	2,616	2,510	2,373	2,320	2,206	2,015	2,036	1,788
2-<5 years	*	432	868	2,020	2,079	2,062	1,968	1,779	1,679	1,576	1,515	1,478	1,545	1,464	1,442	1,368
5+ years	*	155	429	744	887	841	886	892	875	856	864	805	849	821	785	811
All	99	1,922	3,514	6,248	6,512	6,206	5,870	5,450	5,170	4,942	4,752	4,603	4,600	4,300	4,263	3,967
All with unknowns dropped	89	1,786	3,366	6,043	6,290	5,971	5,630	5,222	4,937	4,726	4,538	4,405	4,412	4,114	4,102	3,804



Table H.20

**Annual mortality rates: CAPD/CCPD patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
0-4	.	105.1	88.6	78.2	94.2	144.4	78.0	129.9	123.0	126.4	97.8	87.6	109.0	91.0	76.8	76.1
5-9	116.2	91.1	29.1	24.7	50.2	43.8	44.8	69.6	35.6	31.4	7.9	42.2	63.6	24.1	42.7	25.9
10-14	.	47.8	51.0	41.3	45.9	33.8	9.3	43.5	15.2	13.7	21.9	40.1	29.9	33.0	48.5	32.4
15-19	.	45.9	21.9	49.2	23.9	30.5	38.0	43.1	36.1	39.1	40.6	27.9	19.7	15.5	27.0	19.8
20-29	60.2	59.4	67.9	58.6	60.5	48.7	48.8	60.7	41.2	42.9	47.6	59.5	53.3	42.0	40.9	40.5
30-39	171.1	115.7	100.7	100.6	97.6	92.9	88.3	82.4	84.2	75.5	85.6	65.9	64.8	59.1	54.4	53.1
40-49	212.5	136.7	141.5	142.1	135.7	124.8	121.2	117.2	113.9	115.2	111.8	106.0	106.9	90.9	85.6	86.8
50-59	270.3	218.0	205.2	199.1	193.7	196.3	197.1	192.3	181.3	177.7	169.0	165.2	160.0	147.7	138.8	127.9
60-64	171.8	280.8	267.2	260.6	273.4	277.9	267.0	271.0	266.6	251.9	228.2	218.1	219.9	199.2	196.6	168.5
65-69	409.8	338.8	336.6	334.8	339.1	322.1	328.0	315.6	324.9	318.6	292.0	273.4	265.0	249.0	242.7	227.3
70-79	545.1	432.8	411.0	402.8	429.8	407.2	421.2	417.3	409.0	390.6	372.3	347.8	342.9	340.2	333.8	286.2
80-84	1,156.6	733.4	551.5	590.4	578.7	593.4	553.5	568.2	515.0	518.4	506.4	500.3	482.2	442.6	428.5	433.4
85+	1,001.6	650.3	708.6	723.1	701.2	783.8	710.7	644.7	709.0	733.0	609.9	627.4	576.3	596.9	566.6	608.5
Male	260.6	215.5	229.6	236.0	239.3	231.1	228.5	223.1	221.4	214.3	204.0	205.8	199.9	184.9	176.4	171.5
Female	242.6	222.1	211.6	218.0	220.5	217.0	216.9	216.9	206.8	202.4	196.2	179.1	178.8	171.2	171.8	149.4
White	259.3	229.0	241.3	254.5	257.7	257.0	255.6	251.0	245.4	238.6	232.0	220.7	217.0	208.0	205.0	187.7
African American	207.3	182.7	167.0	178.0	177.6	160.9	162.5	158.4	154.1	155.5	144.3	142.5	143.9	131.7	120.6	112.2
Other race	341.5	215.5	186.2	132.4	162.0	150.8	145.3	169.4	159.5	140.5	129.7	138.0	125.3	100.3	108.7	108.9
†Hispanic					150.3	169.6	176.0	157.6	152.8	164.9	154.3	153.9	143.9	127.6	119.1	107.6
†Non-Hisp.					238.3	230.5	228.5	228.0	222.9	214.8	207.0	198.6	196.6	186.0	182.5	169.1
Diabetes	413.0	319.8	318.8	315.0	323.6	318.3	322.4	312.5	301.5	294.8	279.0	258.3	256.8	246.4	242.9	219.5
Hypertension	299.2	269.0	234.0	240.8	236.1	236.2	224.7	222.9	216.0	220.5	202.0	204.9	199.4	182.8	183.6	171.5
Glomerulonephritis	98.4	119.3	138.0	125.5	134.0	124.7	126.0	127.5	114.7	106.6	109.7	112.7	103.8	101.2	95.9	84.2
Other cause	220.9	194.1	179.0	179.8	174.5	162.0	159.8	161.4	168.8	156.0	156.4	146.7	148.8	136.0	125.7	124.5
<2 years	283.6	239.9	226.3	215.2	217.2	212.0	209.6	207.5	199.1	193.0	182.1	178.0	169.9	157.0	157.1	140.5
2-<5 years	107.5	200.0	229.8	276.3	268.6	264.8	259.9	251.6	250.6	243.3	230.6	222.3	222.0	208.9	202.6	186.3
5+ years	40.3	145.3	184.6	187.0	210.1	194.8	202.2	207.2	203.6	202.5	209.0	191.6	196.8	192.0	178.4	176.9
All	251.6	218.6	221.0	227.3	230.2	224.2	222.8	220.1	214.2	208.5	200.2	192.7	189.6	178.3	174.2	160.9
<b>ADJUSTED</b>																
0-19	107.0	60.2	72.8	80.1	88.6	76.2	92.5	88.2	88.2	79.9	77.6	81.3	76.1	83.6	76.2	
20-44	121.8	116.1	117.2	118.7	111.1	108.2	103.1	100.8	98.6	97.8	90.6	90.6	81.4	77.2	74.0	
45-64	238.5	226.7	216.6	218.2	212.3	211.0	208.6	203.0	197.3	188.4	180.1	179.4	168.5	160.3	145.0	
65-74	395.5	377.2	371.7	393.8	375.8	378.4	367.5	370.6	361.1	352.3	330.5	326.2	314.6	303.9	275.2	
75+	558.7	559.0	548.0	576.5	550.6	564.0	577.6	559.0	543.0	543.7	511.3	509.9	481.8	466.5	436.4	
Male	277.8	279.2	274.3	281.0	269.0	267.8	262.8	257.9	250.6	240.1	232.0	232.2	217.9	205.1	192.0	
Female	313.2	285.1	278.0	285.1	274.2	276.6	276.0	269.9	265.4	257.5	237.0	231.9	219.3	216.0	193.1	
White	314.6	309.6	305.8	309.9	301.0	301.6	297.6	291.5	285.2	276.1	260.1	253.7	240.6	233.8	216.3	
African American	268.0	235.1	249.8	259.4	238.1	238.2	237.2	226.4	220.0	215.7	205.6	207.9	194.9	180.4	161.2	
Other race	304.5	304.4	183.2	205.4	196.0	193.6	203.2	212.6	199.9	180.7	177.0	173.8	150.1	144.7	136.1	
Diabetes	386.0	374.1	376.7	389.7	377.4	383.7	378.0	367.8	356.8	344.7	317.7	311.7	294.9	285.3	262.9	
Hypertension	270.7	237.2	236.8	236.3	228.8	224.9	226.4	219.7	219.0	208.7	203.6	200.9	188.5	181.9	166.9	
Glomerulonephritis	181.6	200.3	168.8	182.8	170.4	172.1	172.9	166.5	155.2	152.4	153.9	153.6	149.5	144.9	127.0	
Other cause	251.2	242.0	231.2	238.3	220.5	214.0	210.6	216.9	211.3	211.1	201.6	198.7	187.5	173.1	164.4	
<2 years	297.4	253.7	224.5	224.7	213.7	210.8	207.9	200.3	192.9	179.7	170.7	166.8	155.0	149.2	134.3	
2-<5 years	295.9	297.1	318.8	317.4	306.1	302.1	296.0	288.3	280.3	266.5	250.3	244.2	228.1	218.7	198.6	
5+ years	291.0	312.9	311.8	339.2	326.9	338.2	337.1	336.2	335.2	338.1	318.3	320.1	307.8	297.6	277.8	
All	295.1	283.2	276.4	283.8	272.2	272.8	269.5	263.7	257.7	248.9	235.0	232.5	219.1	210.7	192.7	

on our website &amp; cd

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



Table H.21

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

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	*	*	11	11	18	*	16	15	17	13	*	16	14	11	*
5-9	*	*	*	*	*	*	*	*	*	*	.	*	*	*	*	*
10-14	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15-19	.	*	*	14	*	*	*	11	*	*	*	*	*	*	*	*
20-29	*	38	61	59	60	39	41	49	34	36	36	48	25	25	28	21
30-39	*	148	203	295	269	235	182	165	153	131	145	113	101	95	79	67
40-49	13	198	351	568	577	498	457	392	385	355	351	290	293	234	228	235
50-59	23	408	575	968	967	951	918	845	802	761	735	695	639	574	602	512
60-64	11	294	513	697	750	732	657	609	558	522	485	467	483	405	390	350
65-69	11	306	597	1,017	978	934	855	738	722	693	629	584	528	501	492	465
70-79	19	405	872	1,687	1,831	1,677	1,639	1,541	1,440	1,322	1,256	1,183	1,211	1,150	1,143	962
80-84	*	77	167	411	414	402	377	356	325	352	374	376	376	370	385	381
85+	*	23	67	140	156	189	171	150	174	175	163	199	188	207	212	235
0-19	*	25	20	32	31	34	21	39	27	28	23	25	27	25	28	18
20-44	17	278	424	603	577	468	415	373	345	311	308	268	230	208	198	193
45-64	42	808	1,279	1,984	2,046	1,987	1,840	1,687	1,587	1,494	1,444	1,345	1,311	1,125	1,129	992
65-74	23	554	1,101	2,036	2,035	1,902	1,765	1,582	1,523	1,408	1,285	1,214	1,180	1,113	1,062	942
75+	16	257	602	1,219	1,344	1,300	1,277	1,203	1,138	1,134	1,137	1,128	1,123	1,115	1,170	1,101
Male	51	1,010	1,872	3,173	3,240	3,018	2,788	2,513	2,457	2,293	2,185	2,173	2,092	1,904	1,896	1,793
Female	48	912	1,554	2,701	2,793	2,673	2,530	2,371	2,163	2,082	2,012	1,807	1,779	1,682	1,691	1,453
White	81	1,524	2,691	4,457	4,534	4,385	4,092	3,697	3,524	3,319	3,236	3,017	2,952	2,753	2,789	2,519
African American	15	348	645	1,240	1,250	1,059	1,000	927	849	842	753	738	716	669	630	560
Native American	*	26	49	58	73	57	57	56	50	44	41	51	45	36	37	36
Asian	.	18	35	105	141	139	110	143	134	114	123	128	111	97	103	109
Other/unknown	*	*	*	14	35	51	59	61	63	56	44	46	47	31	28	22
†Hispanic					353	450	447	393	394	439	385	402	377	308	299	277
†Non-Hisp.					5,680	5,241	4,871	4,491	4,226	3,936	3,812	3,578	3,494	3,278	3,288	2,969
Diabetes	42	633	1,350	2,593	2,799	2,759	2,665	2,404	2,279	2,130	2,070	1,912	1,858	1,704	1,729	1,486
Hypertension	19	465	872	1,646	1,567	1,438	1,269	1,176	1,113	1,092	990	1,034	1,018	960	985	918
Glomerulonephritis	*	260	488	655	694	632	576	548	462	438	408	374	335	326	303	264
Cystic kidney	*	67	102	154	132	136	126	109	104	98	102	78	79	69	70	77
Other urologic	*	48	77	97	122	121	107	107	130	111	110	93	117	105	77	71
Other cause	17	179	318	534	534	429	406	392	381	359	355	355	334	286	308	304
Unknown cause	*	130	139	182	170	170	164	143	145	142	154	129	119	131	109	121
Missing	*	140	80	13	15	*	*	*	*	*	*	*	11	*	*	*
<2 years	94	1,335	2,179	3,374	3,406	3,151	2,891	2,638	2,484	2,362	2,247	2,178	2,033	1,864	1,869	1,612
2-<5 years	*	432	834	1,876	1,898	1,886	1,756	1,583	1,479	1,380	1,327	1,261	1,278	1,203	1,211	1,121
5+ years	*	155	413	624	729	654	671	663	657	633	623	541	560	519	507	513
All	99	1,922	3,426	5,874	6,033	5,691	5,318	4,884	4,620	4,375	4,197	3,980	3,871	3,586	3,587	3,246
All with unknowns dropped	89	1,786	3,282	5,680	5,828	5,470	5,095	4,680	4,413	4,177	4,003	3,806	3,705	3,425	3,452	3,106

Table H.22

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

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
0-4	.	211.1	218.9	189.1	179.0	281.1	136.5	301.1	291.8	253.5	210.2	197.8	246.8	207.6	163.8	141.4
5-9	151.5	205.0	72.3	54.1	132.1	145.4	106.1	193.1	107.8	90.1	.	155.9	57.2	60.9	141.0	48.2
10-14	.	106.5	218.7	113.8	127.6	72.9	31.4	99.1	36.2	56.9	65.6	127.4	117.9	133.2	130.9	87.9
15-19	.	91.3	56.1	141.6	69.2	66.9	81.7	120.2	111.5	102.9	116.5	80.0	63.2	15.3	71.6	10.5
20-29	74.9	91.7	155.9	143.6	142.6	107.2	99.8	147.1	103.5	100.6	112.8	163.7	93.2	83.6	89.1	65.1
30-39	195.1	154.9	169.7	188.6	184.3	171.8	163.9	156.9	164.9	153.6	174.1	138.9	126.8	120.0	102.5	82.5
40-49	225.0	164.4	206.3	220.1	217.8	198.1	193.0	187.2	187.7	184.5	193.8	179.3	177.4	142.8	142.2	140.3
50-59	284.9	233.0	248.8	262.8	257.2	269.5	273.0	266.2	260.9	261.5	259.1	252.7	236.1	210.9	204.0	176.5
60-64	171.8	286.8	285.7	295.3	309.9	322.8	316.6	327.3	332.0	321.8	293.8	289.3	303.6	263.8	260.3	214.4
65-69	409.8	341.1	345.7	360.3	362.9	345.1	356.3	350.7	366.9	357.7	342.9	324.9	313.1	301.0	287.4	268.1
70-79	545.1	434.1	412.7	407.8	436.8	415.2	428.7	425.0	418.2	406.7	387.7	363.3	361.2	360.4	356.3	303.9
80-84	1156.6	733.4	551.5	590.4	579.6	594.7	555.5	569.7	515.7	523.0	510.7	505.1	489.0	445.7	429.0	432.9
85+	1001.6	650.3	708.6	723.4	701.2	783.8	710.7	644.7	709.0	736.6	615.2	629.8	576.3	599.1	566.0	605.6
Male	275.3	247.2	296.6	320.7	327.1	322.2	321.5	316.3	323.8	310.6	302.3	309.2	298.0	271.8	261.0	242.7
Female	272.6	259.1	275.8	299.2	306.6	302.4	306.7	313.1	303.6	307.3	302.9	276.3	273.4	262.8	260.3	219.1
White	287.3	264.3	310.6	339.6	344.9	348.6	350.8	346.3	348.8	340.8	338.9	322.4	316.4	296.5	292.0	260.0
African American	211.7	212.3	217.3	250.3	255.5	229.6	234.8	238.1	229.6	238.0	219.3	219.5	215.8	207.0	188.7	163.6
Other race	352.0	251.1	284.8	210.3	255.8	243.5	226.2	274.4	270.3	243.5	233.7	264.6	231.1	184.5	193.3	183.5
†Hispanic					232.3	264.8	273.3	252.7	240.8	269.8	242.6	256.1	239.4	200.4	189.7	165.4
†Non-Hisp.					324.7	317.5	318.6	321.7	323.2	314.2	310.3	298.2	292.3	276.2	269.8	240.5
Diabetes	424.7	343.0	375.7	380.6	391.3	388.6	400.4	387.7	384.9	371.7	361.5	341.6	337.1	317.2	316.3	270.6
Hypertension	308.5	296.3	281.6	307.0	307.2	307.9	297.8	302.1	295.4	300.4	279.5	288.2	278.3	260.5	257.8	234.1
Glomerulonephritis	113.5	150.2	208.1	212.0	224.6	210.3	208.4	223.1	209.2	208.8	212.0	201.5	187.5	185.8	174.3	151.5
Other cause	248.4	229.4	245.9	268.1	265.2	251.2	249.3	254.7	272.0	265.5	272.3	261.1	256.7	229.8	208.5	201.7
<2 years	304.9	273.3	297.0	296.3	303.8	299.9	301.4	304.5	298.3	289.3	275.7	273.2	262.1	242.9	237.0	203.6
2-<5 years	128.2	233.0	290.5	363.9	350.9	356.7	352.6	346.3	352.1	349.2	346.3	333.7	323.2	302.9	294.9	264.5
5+ years	45.8	178.9	237.5	262.4	304.8	271.3	285.4	290.3	300.5	310.4	329.6	297.4	308.3	295.1	286.7	274.9
All	274.0	252.7	286.8	310.5	317.3	312.6	314.2	314.7	314.0	309.1	302.6	293.3	286.2	267.5	260.7	231.5
<b>ADJUSTED</b>																
0-19	185.2	141.5	150.3	163.1	178.7	148.1	183.1	192.7	185.4	176.1	170.9	172.5	172.5	174.3	134.7	
20-44	154.0	180.4	196.5	199.1	184.7	181.4	174.7	175.2	169.1	174.3	167.2	160.0	141.9	132.4	118.1	
45-64	250.0	258.3	265.6	270.6	266.9	268.7	266.7	267.3	265.7	262.8	254.5	252.5	230.0	220.9	193.1	
65-74	399.4	370.7	373.6	397.4	378.6	383.0	373.3	381.3	374.4	372.1	352.8	348.9	339.4	333.2	300.0	
75+	575.0	544.5	523.9	557.7	531.1	541.1	554.6	540.9	526.6	531.4	491.4	489.1	461.6	459.7	424.2	
Male	293.0	306.9	316.2	325.6	313.1	313.4	307.8	308.3	301.5	295.3	288.5	286.6	265.3	251.5	226.6	
Female	328.9	307.0	309.1	319.4	307.8	310.4	312.7	309.5	310.3	308.7	287.9	279.4	261.3	260.7	229.0	
White	331.2	337.4	343.2	348.7	340.6	344.6	340.4	339.1	333.4	332.5	315.4	308.9	286.1	280.0	250.3	
African American	281.3	257.0	289.0	303.9	277.8	275.9	275.6	267.8	266.1	262.9	253.2	251.0	237.3	225.5	198.3	
Other race	322.5	323.7	214.7	245.0	237.5	232.2	248.6	262.4	258.2	241.1	249.0	235.1	198.0	186.4	171.8	
Diabetes	404.8	393.2	407.3	424.2	411.2	418.5	412.8	410.9	397.1	392.6	366.1	359.5	336.8	331.7	295.5	
Hypertension	286.6	261.3	267.8	269.9	264.2	263.1	265.7	262.4	259.2	251.1	248.6	244.1	231.1	224.0	201.2	
Glomerulonephritis	191.7	230.5	215.3	230.2	214.4	213.9	215.7	212.7	210.3	212.8	207.7	201.3	189.7	185.4	163.4	
Other cause	267.5	276.4	282.9	293.2	272.8	268.5	264.7	273.7	274.2	280.3	272.9	267.0	242.6	225.0	206.2	
<2 years	312.2	291.4	272.0	273.6	263.1	261.7	261.8	257.0	249.7	236.6	227.8	221.1	204.7	195.5	169.7	
2-<5 years	312.1	319.9	360.2	357.2	349.2	345.1	341.8	337.2	332.4	325.6	311.3	299.3	275.5	264.4	234.5	
5+ years	306.7	321.3	326.4	360.5	342.8	353.8	348.1	354.5	357.3	368.4	348.9	351.6	332.3	331.5	301.5	
All	310.5	308.6	313.7	323.9	311.9	313.4	310.8	309.5	306.1	302.5	289.1	283.9	264.1	256.4	227.8	

Table H.23

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

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

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	.	.	.	.	*	*	.	.	*	*	.	*	*	.	*
5-9	.	.	.	.	.	.	.	.	.	.	.	.	*	*	.	*
10-14	.	.	.	*	*	*	.	.	.	.	*	*	*	*	*	.
15-19	.	.	.	*	*	*	.	.	*	*	*	*	*	*	*	*
20-29	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30-39	*	13	13	14	13	15	*	*	*	*	12	18	*	*	11	
40-49	*	39	42	35	37	44	35	34	32	31	37	33	44	42		
50-59	*	66	58	76	82	63	49	66	57	71	96	82	58	73		
60-64	*	59	72	76	85	99	92	97	93	120	161	159	130	145		
65-69	*	14	32	42	43	45	39	36	36	53	57	74	71	76		
70-79	*	*	29	23	27	30	23	34	27	37	56	49	50	55		
80-84	*	*	*	*	*	*	18	11	15	33	31	32	36	33		
85+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	*	.
0-19	.	.	.	*	*	*	.	*	*	*	*	*	*	*	*	*
20-44	12	81	80	81	92	83	66	75	65	74	97	77	74	82		
45-64	17	110	137	162	168	183	156	166	163	213	272	281	238	265		
65-74	*	*	33	31	31	38	38	43	42	61	77	74	81	82		
75+	.	.	*	*	*	*	*	*	.	11	*	*	*	*		
Male	21	101	134	149	158	164	135	152	140	199	253	266	202	242		
Female	12	96	121	134	142	142	130	138	135	164	209	179	201	199		
White	26	143	176	180	181	213	171	186	161	232	282	308	267	291		
African American	*	49	68	85	97	73	78	82	90	98	142	109	97	107		
Native American	*	*	*	*	*	*	.	*	*	*	*	*	*	*		
Asian	*	*	*	11	15	15	*	15	14	19	28	21	21	36		
Other/unknown	.	.	*	*	*	*	*	*	*	*	*	*	*	*		
†Hispanic	.	.	.	22	21	26	23	31	37	53	55	56	66	54	51	
†Non-Hisp.	.	.	.	233	262	274	283	234	253	222	308	406	379	349	390	
Diabetes	19	93	122	126	120	142	120	140	118	150	205	208	183	235		
Hypertension	*	32	37	58	50	46	47	55	54	57	84	70	66	62		
Glomerulonephritis	*	22	50	49	64	59	44	48	44	90	82	82	76	61		
Cystic kidney	*	17	*	11	17	15	15	*	11	16	16	17	18	16		
Other urologic	.	*	*	*	*	*	*	*	*	*	16	11	*	11		
Other cause	*	25	27	31	38	30	28	28	41	38	48	45	38	48		
Unknown cause	*	*	*	*	*	*	*	*	*	*	11	12	13	*		
Missing	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<2 years	14	70	84	97	76	88	72	83	65	92	110	107	106	112		
2-<5 years	12	90	114	118	139	133	131	124	122	151	196	188	174	176		
5+ years	*	37	57	68	85	85	62	83	88	120	156	150	123	153		
All	33	197	255	283	300	306	265	290	275	363	462	445	403	441		
All with unknowns dropped	31	193	248	276	290	294	252	280	266	350	447	430	382	429		

Table H.24

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

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	.	.	.	.	105.1	108.7	.	.	67.5	72.3	.	46.3	38.2	.	93.6
5-9	.	.	.	.	.	.	.	.	.	.	.	.	83.7	40.9	.	33.3
10-14	.	.	.	61.3	18.5	.	.	21.7	.	.	19.5	16.7	33.3	14.6	15.7	19.4
15-19	.	.	13.4	49.8	21.0	.	.	.	50.7	45.4	34.3	10.8	24.7	9.7	38.6	
20-29	.	5.7	40.8	34.6	31.1	36.1	37.1	17.0	25.7	23.1	26.0	40.0	19.1	23.2	25.5	
30-39	29.6	48.2	53.7	42.5	46.9	54.3	36.7	33.2	34.8	33.9	40.4	35.3	35.8	38.4		
40-49	20.9	74.8	51.0	77.2	69.5	54.2	45.5	57.3	42.4	50.7	63.0	59.2	40.7	48.0		
50-59	57.9	81.8	95.2	74.7	90.5	99.8	83.3	73.7	71.2	85.1	100.6	96.7	77.9	73.6		
60-64	82.0	83.9	142.0	151.8	143.8	156.1	104.6	99.2	71.2	102.4	101.2	107.5	108.9	108.9		
65-69	167.0	52.4	164.9	157.3	131.1	155.0	121.6	148.4	108.0	124.1	155.5	128.1	110.7	128.6		
70-79	448.7	51.0	122.2	192.7	156.0	133.8	166.7	76.3	93.2	148.3	153.9	146.7	138.3	101.9		
80-84	.	.	.	.	.	.	.	567.2	.	.	.	578.8	.	.	574.7	.
85+	.	.	.	.	.	.	.	.	.	.	.	.	.	719.0	.	.
Male			36.8	60.9	70.0	73.7	75.0	78.1	61.5	66.5	55.6	73.6	87.4	89.4	65.1	73.4
Female			23.2	62.5	65.8	68.9	69.3	69.2	57.0	55.8	51.4	57.5	68.5	56.7	60.7	57.7
White			34.3	72.6	76.6	75.4	73.9	86.9	65.4	67.6	53.7	72.2	81.7	87.1	74.1	74.2
African American			17.8	49.7	60.1	69.0	75.2	56.8	56.2	56.2	58.8	58.2	80.8	59.6	48.6	52.8
Other race			31.2	18.5	34.0	52.9	53.1	47.7	33.7	40.0	39.4	48.8	50.4	37.4	47.0	55.5
†Hispanic					61.4	47.6	52.9	43.5	49.2	54.1	73.0	69.6	61.9	72.5	56.4	50.5
†Non-Hisp.					68.6	74.1	74.7	77.9	60.8	62.1	50.2	64.6	80.3	72.6	64.0	68.1
Diabetes			93.4	138.8	140.4	143.3	127.7	150.2	117.4	127.0	94.4	112.0	136.8	137.6	115.4	136.6
Hypertension			22.8	48.3	51.7	79.0	62.0	58.7	53.2	60.6	56.4	54.0	73.1	58.1	48.4	46.4
Glomerulonephritis			14.6	21.7	44.6	36.3	47.9	44.2	31.6	33.0	27.7	55.0	49.0	46.1	43.8	33.7
Other cause			14.6	53.5	44.8	45.9	61.2	52.8	46.9	37.3	45.0	42.1	55.8	51.5	44.8	44.9
<2 years			25.5	48.5	47.7	55.1	43.4	50.3	38.3	43.2	33.1	45.6	50.0	45.8	45.1	44.7
2-<5 years			34.5	84.2	95.3	85.9	90.4	87.0	83.3	73.7	63.6	70.9	88.2	84.1	73.0	71.6
5+ years			34.1	56.4	71.1	82.0	96.1	94.4	59.2	71.5	68.4	84.8	101.2	93.4	73.1	85.7
All			30.0	61.7	67.9	71.3	72.2	73.6	59.2	61.0	53.4	65.3	77.6	72.6	62.9	65.5
<b>ADJUSTED</b>																
0-19				21.9	77.0	58.3	28.2	14.2	42.5	50.4	49.7	70.3	67.1	45.8	68.4	
20-44				70.1	74.9	73.9	74.0	54.0	58.3	44.7	48.4	59.7	53.8	47.2	49.7	
45-64				118.5	119.4	115.7	125.6	99.2	96.0	82.1	95.7	113.2	108.9	89.7	91.6	
65-74				189.5	206.7	183.9	190.1	157.1	175.5	148.1	163.7	186.5	166.3	140.6	145.5	
75+				244.8	279.1	464.4	343.6	360.9	220.0	56.8	207.2	271.1	205.6	130.1	104.4	
Male				154.8	137.2	142.4	153.0	133.5	120.5	81.0	116.4	146.6	136.4	100.2	102.9	
Female				133.3	164.0	181.3	165.8	147.9	124.9	88.6	108.3	125.4	97.4	86.1	84.1	
White				163.9	170.4	172.6	185.8	162.9	137.9	94.2	126.5	144.2	134.5	106.2	107.3	
African American				91.8	127.1	146.7	117.2	105.4	104.0	75.5	96.9	133.6	102.1	73.1	74.2	
Other race				161.5	77.0	100.4	93.3	74.7	89.5	55.3	90.9	82.1	64.1	74.4	78.3	
Diabetes				235.7	230.0	232.4	235.6	198.7	200.5	137.8	172.4	191.5	178.0	139.2	155.8	
Hypertension				101.6	130.7	125.4	141.5	124.6	100.7	68.2	95.1	126.3	98.8	74.0	67.7	
Glomerulonephritis				78.5	104.3	133.6	98.0	71.6	60.6	44.9	83.2	84.2	85.0	73.0	57.0	
Other cause				78.1	76.6	112.4	93.8	104.3	66.5	52.4	69.5	97.1	88.0	67.6	64.1	
<2 years				82.8	86.3	85.2	83.2	72.3	65.4	42.8	63.3	73.8	62.2	52.3	51.8	
2-<5 years				181.5	176.5	185.0	173.4	168.3	136.9	90.7	112.8	136.2	120.4	97.4	94.4	
5+ years				203.8	221.6	258.7	268.6	224.2	199.5	137.1	190.1	233.7	199.7	147.8	154.1	
All				143.8	149.3	161.1	158.6	138.8	122.2	84.8	113.1	136.5	118.5	93.8	94.4	



Table H.25

**Total patient deaths: CAPD/CCPD patients, returned to dialysis from transplant***by age, gender, race, ethnicity, primary diagnosis, & patient vintage*

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	*	.	.	*	.	*	.	*	*	.	.	*	*	.	.
10-14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.
15-19	*	*	*	*	*	*	*	*	*	*	*	*	.	*	*	*
20-29	*	12	*	22	20	23	20	11	12	11	11	17	13	12	*	
30-39	19	24	36	46	54	50	43	49	34	33	26	33	21	20	25	
40-49	20	49	65	81	88	64	92	74	70	71	65	67	50	37	43	
50-59	*	14	67	63	57	56	52	51	46	59	56	61	55	59	64	
60-64	*	*	15	19	25	20	11	16	16	13	16	22	25	33	19	
65-69	*	*	16	16	16	*	*	11	*	12	15	13	14	20	18	
70-79	.	*	*	*	*	12	15	*	*	18	*	11	21	21	12	
80-84	.	.	.	.	.	.	.	.	*	*	.	.	*	*	*	
85+	.	.	.	.	.	.	.	.	.	.	.	.	.	*	.	
0-19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20-44	33	69	88	106	124	106	98	100	81	81	64	84	58	45	55	
45-64	18	36	105	125	120	107	120	101	97	106	110	116	106	116	106	
65-74	*	11	21	22	24	16	22	17	18	28	22	22	33	36	26	
75+	.	*	*	.	*	*	*	*	*	*	*	*	*	*	*	*
Male	32	66	121	141	136	117	125	110	108	110	100	112	102	100	94	
Female	24	56	101	117	138	117	121	114	93	110	102	116	102	109	100	
White	46	93	171	195	204	165	183	161	147	163	131	159	148	146	140	
African American	*	26	45	57	58	55	56	54	46	49	63	57	50	49	50	
Native American	*	*	*	*	*	*	*	.	*	*	*	*	*	*	*	
Asian	*	*	*	*	*	11	*	*	*	*	*	*	*	*	*	
Other/unknown	.	.	.	.	.	.	.	*	.	.	*	.	.	*	.	
†Hispanic	.	.	.	17	15	17	30	18	18	22	12	20	13	16	14	
†Non-Hisp.	.	.	.	241	259	217	216	206	183	198	190	208	191	193	180	
Diabetes	12	42	64	66	71	56	69	55	60	50	33	53	47	48	55	
Hypertension	*	12	44	43	37	45	29	35	36	44	34	46	28	49	34	
Glomerulonephritis	16	35	60	86	87	80	76	69	57	74	87	66	77	61	54	
Cystic kidney	*	*	16	20	24	*	12	*	*	*	11	13	16	11	12	
Other urologic	.	.	*	*	*	*	*	*	*	*	*	*	*	*	*	
Other cause	*	19	27	31	41	33	45	47	24	37	25	38	27	28	28	
Unknown cause	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Missing	*	*	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<2 years	*	*	*	*	*	*	.	*	*	*	*	.	*	.	.	.
2-<5 years	25	34	38	35	41	27	21	27	15	15	*	16	11	14	*	
5+ years	29	81	177	217	231	206	225	196	185	204	193	212	191	195	186	
All	56	122	222	258	274	234	246	224	201	220	202	228	204	209	194	
All with unknowns dropped	51	118	214	252	268	229	239	218	195	216	194	224	204	205	191	

Table H.26

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

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	.	.	.	.	.	.	.	.	.	.	.	.	.	513.0	.	.
5-9	.	50.6	74.1	33.4	.	.	59.3	.	89.5	94.5	.	.	136.9	.	.	.
10-14	60.9	16.0	30.4	36.6	48.0	.	.	29.1	32.7	.	26.4	47.6	27.0	22.6	76.8	.
15-19	79.6	18.8	33.2	28.4	55.2	34.4	40.7	48.8	31.2	10.0	12.4	14.4	33.1	27.5	44.0	.
20-29	30.7	48.1	37.9	66.8	62.7	75.5	68.1	41.9	44.8	53.8	36.4	58.5	58.3	41.3	43.1	.
30-39	115.4	70.3	60.1	87.1	96.2	102.3	93.3	102.0	74.7	71.8	59.0	92.2	52.0	55.0	57.2	.
40-49	191.4	164.3	129.6	138.5	162.2	108.1	175.8	154.2	149.0	154.9	136.4	136.6	114.1	72.2	84.2	.
50-59	113.9	109.9	220.7	176.4	200.1	190.6	189.5	202.3	155.7	197.6	188.9	171.0	134.2	168.9	171.0	.
60-64	54.8	124.5	311.6	256.6	401.6	234.6	145.7	186.9	233.9	228.5	233.6	232.0	271.8	323.5	164.3	.
65-69	129.0	546.9	302.9	335.9	402.8	196.7	275.7	479.6	360.1	303.9	273.1	344.6	386.1	394.6	384.6	.
70-79	.	889.6	366.2	165.6	504.8	524.2	521.0	.	221.3	282.5	619.8	226.1	429.6	575.2	618.3	272.4
80-84	.	.	.	.	.	.	.	.	525.5	.	.	.	.	.	.	.
85+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	105.7	100.3	120.4	124.1	144.9	117.0	147.7	142.3	134.4	143.9	121.7	140.8	126.0	116.4	101.8	.
Female	98.7	87.9	93.2	108.5	129.2	114.6	118.4	113.8	93.9	108.9	100.5	114.5	98.7	103.2	101.3	.
White	105.9	95.7	113.8	127.5	147.9	125.0	148.2	139.8	124.9	135.0	106.4	136.5	123.0	118.5	119.6	.
African American	81.4	94.5	92.6	95.0	113.9	91.5	103.3	105.5	89.0	108.9	129.1	105.7	96.7	87.2	79.3	.
Other race	136.4	64.4	72.3	69.5	102.1	118.2	74.3	76.1	70.0	71.1	65.5	112.1	44.3	114.3	27.1	.
†Hispanic	.	.	.	82.0	79.2	91.8	153.1	86.7	84.5	111.9	52.4	93.3	56.8	75.5	65.2	.
†Non-Hisp.	.	.	.	119.2	142.3	118.2	129.6	131.2	115.4	125.9	117.2	130.5	118.0	113.5	106.3	.
Diabetes	253.0	283.9	264.6	243.6	272.6	243.6	333.0	294.8	350.2	335.9	202.9	285.2	245.1	251.1	292.2	.
Hypertension	149.5	70.7	144.4	115.7	118.6	133.2	88.2	134.5	114.1	147.9	109.6	160.5	94.4	145.0	105.4	.
Glomerulonephritis	68.4	66.8	75.8	100.0	117.9	104.0	93.8	92.9	79.2	96.3	110.8	85.7	102.5	78.4	71.0	.
Other cause	88.6	76.0	75.6	91.0	122.4	81.4	137.6	117.4	86.9	101.4	83.1	118.5	91.3	89.0	84.2	.
<2 years	32.3	77.3	86.5	95.1	39.2	32.1	0.0	38.2	53.0	62.2	61.1	.	261.1	.	.	.
2-<5 years	113.6	82.9	82.9	79.3	109.3	87.8	82.9	119.2	89.6	79.7	43.3	87.5	58.9	87.0	48.4	.
5+ years	107.6	101.3	113.4	125.0	144.0	121.5	139.9	128.8	114.6	129.5	116.4	130.9	115.1	111.8	106.3	.
All	102.8	94.5	106.6	116.2	136.6	115.7	132.0	126.7	111.9	124.3	109.8	126.5	111.1	109.2	101.5	.
<b>ADJUSTED</b>																
0-19					45.3	38.9	39.1	52.9	59.4	29.5	20.8	28.8	47.5	58.4	67.0	
20-44					95.8	83.2	80.4	90.0	93.1	108.9	68.4	82.3	92.9	68.7	62.4	
45-64					196.3	148.5	144.8	147.9	150.7	171.2	154.9	135.8	176.0	129.2	113.4	
65-74					471.4	312.9	275.5	259.3	257.5	463.3	278.6	382.1	433.1	314.8	271.3	
75+					166.2	47.7	169.2	73.3	129.2	234.6	215.1	341.1	556.2	612.3	565.3	
Male					220.6	163.7	165.2	165.7	172.0	267.6	200.7	246.2	292.1	226.8	198.5	
Female					227.3	137.5	145.5	125.6	138.8	194.7	134.3	126.1	215.3	181.2	160.0	
White					259.0	158.0	169.1	176.4	189.3	303.4	195.6	228.6	269.0	228.8	197.9	
African American					167.8	143.9	138.2	120.0	118.4	152.0	122.3	105.8	224.6	139.8	138.7	
Other race					222.0	135.0	135.5	62.9	72.2	56.4	136.2	173.0	289.9	239.5	175.8	
Diabetes					346.5	216.7	225.1	196.3	223.2	356.4	245.3	320.3	342.1	257.8	226.3	
Hypertension					144.7	132.3	129.5	159.7	152.9	238.8	138.2	120.2	182.0	180.1	160.4	
Glomerulonephritis					100.8	97.9	100.5	96.0	82.0	108.1	126.5	136.2	269.2	212.6	153.4	
Other cause					200.7	110.2	131.3	119.1	127.9	126.9	110.0	115.8	194.7	163.7	168.4	
<2 years					146.4	89.6	42.0	53.4	74.2	146.1	130.5	79.4	320.8	144.9	121.0	
2-<5 years					209.5	144.3	170.9	168.0	175.3	238.2	134.5	202.7	140.4	190.8	145.9	
5+ years					349.6	231.6	296.4	249.0	253.9	374.8	259.4	351.3	278.2	324.5	322.6	
All					224.9	151.1	156.2	147.7	156.9	234.1	169.4	188.0	256.4	206.4	181.6	



Table H.27

**Total patient deaths: transplant patients***by age, gender, race, ethnicity, primary diagnosis, & patient vintage*

	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5-9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10-14	12	12	.	*	*	*	*	*	*	*	*	*	*	*	*	*
15-19	*	*	*	18	14	15	17	*	14	12	16	19	12	28	11	*
20-29	35	74	76	56	56	64	55	65	49	72	73	43	52	58	74	68
30-39	88	185	254	270	248	294	266	287	268	297	263	245	242	236	194	204
40-49	103	189	418	602	640	603	646	623	651	729	714	653	622	629	637	591
50-59	64	211	414	632	754	810	853	950	1,016	1,043	1,049	1,156	1,120	1,254	1,308	1,263
60-64	20	61	177	331	357	414	393	480	499	561	556	651	663	701	740	741
65-69	*	16	108	287	291	332	401	382	485	502	533	604	665	696	678	754
70-79	*	*	41	182	221	227	326	398	443	525	564	686	723	780	903	1,038
80-84	.	*	*	*	*	16	15	17	29	32	42	58	68	87	108	140
85+	.	*	*	.	*	*	*	*	*	*	*	*	15	23	21	28
0-19	27	27	15	31	22	30	25	29	24	22	34	34	20	43	20	11
20-44	159	362	539	574	595	633	605	602	605	677	617	559	550	538	520	506
45-64	151	358	800	1,317	1,460	1,552	1,608	1,803	1,878	2,025	2,038	2,189	2,149	2,340	2,433	2,361
65-74	*	22	144	432	465	508	659	670	801	871	931	1,056	1,141	1,204	1,252	1,418
75+	*	*	*	44	54	69	85	128	164	196	215	297	330	382	458	542
Male	230	503	1,025	1,557	1,667	1,727	1,886	2,038	2,139	2,376	2,382	2,542	2,627	2,853	2,932	3,048
Female	110	268	481	841	929	1,065	1,096	1,194	1,333	1,415	1,453	1,593	1,563	1,654	1,751	1,790
White	249	601	1,152	1,842	1,996	2,157	2,295	2,457	2,648	2,895	2,876	3,138	3,175	3,419	3,530	3,697
African American	73	150	315	465	498	536	584	664	690	745	796	836	823	887	932	896
Native American	*	*	15	25	36	27	25	34	46	48	51	54	58	57	55	57
Asian	.	*	18	53	56	68	70	71	84	94	106	99	122	130	145	166
Other/unknown	17	11	*	13	*	*	*	*	*	*	*	*	12	14	21	22
†Hispanic					175	190	192	212	274	307	293	310	344	399	480	445
†Non-Hisp.					2,421	2,602	2,790	3,020	3,198	3,484	3,542	3,825	3,846	4,108	4,203	4,393
Diabetes	48	185	426	793	829	946	1,094	1,123	1,228	1,363	1,376	1,503	1,616	1,623	1,796	1,777
Hypertension	27	90	236	402	448	494	506	557	588	645	698	694	674	795	796	851
Glomerulonephritis	60	163	345	519	601	629	617	662	753	803	757	825	783	894	904	918
Cystic kidney	16	42	111	186	202	193	248	271	295	317	300	329	329	372	348	404
Other urologic	*	15	36	60	59	76	77	91	88	96	108	113	129	139	116	146
Other cause	19	97	171	250	272	282	258	332	318	374	384	459	422	452	495	500
Unknown cause	35	56	90	125	110	116	117	116	122	112	134	136	162	139	156	160
Missing	132	123	91	63	75	56	65	80	80	81	78	76	75	93	72	82
<2 years	161	168	172	156	172	158	137	153	138	176	184	174	165	215	161	167
2-<5 years	153	298	452	525	570	576	563	566	578	609	611	597	607	593	568	609
5+ years	26	305	882	1,717	1,854	2,058	2,282	2,513	2,756	3,006	3,040	3,364	3,418	3,699	3,954	4,062
All	340	771	1,506	2,398	2,596	2,792	2,982	3,232	3,472	3,791	3,835	4,135	4,190	4,507	4,683	4,838
All with unknowns dropped	289	704	1,410	2,262	2,477	2,673	2,857	3,111	3,346	3,670	3,695	3,991	4,016	4,355	4,506	4,657

Table H.28

**Annual mortality rates: transplant patients**

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
0-4	124.2	48.3	22.4	10.1	5.0	23.3	13.8	27.9	4.3	16.3	22.8	15.0	15.6	10.9	10.7	7.1
5-9	48.9	13.2	6.4	8.5	6.6	6.4	4.4	8.9	7.2	3.0	7.1	7.0	1.3	2.6	.	.
10-14	40.4	26.1	0.0	5.8	3.6	6.8	2.6	7.3	3.9	3.1	6.9	4.4	2.9	8.1	5.7	1.4
15-19	17.3	8.8	9.6	11.5	9.0	7.7	11.0	5.7	6.7	6.9	7.3	9.4	5.9	12.2	4.7	3.4
20-29	15.5	16.1	11.8	8.1	8.3	8.9	7.1	8.9	7.1	9.8	9.5	5.6	7.2	7.3	9.6	8.1
30-39	40.6	27.5	20.9	16.5	14.6	16.6	14.7	15.4	14.1	16.2	14.2	13.4	12.7	12.9	10.7	11.1
40-49	73.6	40.3	36.9	31.0	30.2	27.4	27.5	25.0	24.7	25.8	24.7	21.8	20.2	19.9	19.7	17.9
50-59	66.2	71.1	54.2	45.7	49.2	46.9	44.1	44.2	42.4	40.4	37.0	37.8	33.5	35.1	34.2	31.6
60-64	131.2	90.4	69.4	70.7	65.0	69.1	58.6	63.4	62.4	62.8	55.0	59.0	55.7	51.3	48.7	45.3
65-69	60.2	99.6	100.7	90.4	84.2	77.5	87.4	73.5	83.5	77.3	74.5	73.1	75.3	72.8	64.7	62.0
70-79	91.7	59.5	103.2	118.6	112.6	101.2	115.6	122.2	114.7	114.9	107.9	113.4	98.9	94.9	95.8	98.2
80-84	.	403.1	98.5	139.8	73.3	195.9	171.3	158.6	200.9	153.0	143.5	149.7	162.5	169.9	173.0	168.9
85+	.	602.7	297.4	.	165.1	220.8	204.6	58.3	190.9	216.3	199.2	110.9	240.3	237.5	137.6	230.7
Male	48.8	37.5	37.9	37.0	36.5	35.3	36.0	36.5	35.9	37.6	35.6	35.9	35.0	36.1	35.2	34.7
Female	34.3	31.2	27.1	29.3	29.9	31.9	30.7	31.1	32.5	32.6	31.5	32.6	30.2	30.3	30.4	29.7
White	38.6	33.9	32.1	33.1	33.3	33.7	33.6	33.7	34.2	35.4	33.3	34.4	33.0	34.0	33.5	33.7
African American	61.6	42.9	43.7	39.6	38.2	37.7	38.0	40.1	38.9	39.4	39.4	38.8	35.7	36.2	35.7	32.1
Other race	65.5	27.3	21.8	27.1	27.5	24.4	23.1	22.7	24.9	25.7	25.5	23.4	25.5	23.9	23.8	23.5
†Hispanic					26.9	26.5	24.2	23.9	27.9	28.5	24.6	23.6	23.9	25.5	28.3	24.3
†Non-Hisp.					34.5	34.6	34.8	35.4	35.2	36.4	35.0	35.9	34.2	34.8	33.9	33.8
Diabetes	79.1	62.7	53.1	54.9	51.8	54.0	57.8	54.6	55.6	57.8	54.5	55.7	56.4	53.4	55.6	52.2
Hypertension	33.6	33.2	38.4	38.6	39.2	40.0	38.3	39.6	39.4	41.0	41.7	39.1	35.9	40.0	37.6	37.6
Glomerulonephritis	22.0	21.6	23.7	23.8	25.8	25.5	23.5	23.8	25.5	25.9	23.3	24.2	21.9	23.9	23.2	22.6
Other cause	54.2	37.9	31.0	28.4	27.6	26.1	25.7	28.0	26.5	27.0	26.0	27.2	25.7	26.1	24.5	25.4
<2 years	59.7	37.2	26.1	20.4	21.6	19.4	16.7	17.6	15.5	19.1	19.3	17.9	16.8	21.3	15.0	14.9
2-<5 years	45.0	35.7	31.4	26.4	27.4	26.5	25.3	24.8	24.5	25.0	24.3	23.0	22.8	22.0	20.9	21.9
5+ years	14.3	33.4	36.9	39.7	38.7	39.3	39.6	40.1	40.5	41.2	38.8	40.0	37.9	38.3	38.5	37.2
All	42.9	35.1	33.6	33.9	33.8	33.9	33.9	34.3	34.5	35.6	33.9	34.5	33.1	33.8	33.3	32.6
<b>ADJUSTED</b>																
0-19		31.1	22.0	16.9	14.4	13.9	14.5	13.6	11.8	10.3	12.1	12.8	10.5	13.5	9.3	6.5
20-44		35.6	27.7	19.4	18.6	17.6	17.0	16.4	15.5	16.4	15.7	14.9	13.6	13.6	12.5	11.8
45-64		66.9	55.1	46.3	45.1	42.8	39.7	38.5	36.7	36.9	34.5	33.8	30.9	31.1	28.8	26.6
65-74		87.4	89.5	90.4	85.3	79.6	80.8	77.0	77.7	77.0	73.2	71.8	67.5	67.3	61.4	58.1
75+		147.8	76.6	130.4	110.7	94.7	95.0	111.6	111.4	115.9	110.8	115.7	112.4	106.5	101.8	97.3
Male		81.7	64.5	68.2	58.8	53.2	51.7	53.2	51.9	53.3	50.6	50.0	47.0	47.6	43.6	41.1
Female		66.2	49.8	48.3	49.8	48.0	46.0	46.5	45.0	45.6	43.5	44.2	41.4	40.2	37.8	35.4
White		79.4	58.1	58.2	54.7	51.4	49.4	51.0	48.7	49.7	46.8	47.4	44.6	45.0	42.0	39.7
African American		72.2	58.6	62.0	56.4	51.1	50.4	50.4	51.0	52.4	50.7	49.5	45.5	44.0	40.6	37.2
Other race		43.8	51.3	48.0	45.0	44.7	40.1	40.6	36.6	35.8	32.9	31.5	31.8	31.7	30.7	29.2
Diabetes		86.6	70.2	78.8	70.1	64.5	66.0	68.6	67.4	68.8	64.5	64.8	62.0	59.4	56.2	51.4
Hypertension		60.5	52.1	50.4	48.2	47.9	43.8	43.7	41.2	42.2	41.4	40.6	36.9	38.8	35.9	34.9
Glomerulonephritis		74.2	49.3	41.4	46.0	40.0	37.6	34.0	35.4	35.4	32.9	33.0	29.4	30.6	28.2	26.8
Other cause		85.2	55.9	49.4	45.1	39.3	36.8	39.6	37.7	37.5	35.3	35.6	34.1	34.1	30.5	28.8
<2 years		79.1	51.4	47.1	44.2	38.8	35.4	35.7	33.2	35.9	35.6	35.9	33.2	35.5	30.4	27.6
2-<5 years		74.1	55.3	52.4	49.2	46.8	45.5	46.0	44.9	44.4	41.8	41.0	39.1	36.6	34.7	33.7
5+ years		69.4	68.3	82.4	75.1	72.5	73.4	77.0	77.0	76.9	70.9	72.1	68.2	65.7	64.5	61.0
All		74.7	57.9	58.6	54.7	50.9	49.2	50.2	48.7	49.7	47.2	47.3	44.4	44.0	40.9	38.4

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



Table H.29

**Mortality rates by primary cause of mortality, unadjusted**

per 1,000 patient years at risk, period prevalent patients, 2005–2007 combined

<b>ESRD</b>	<b>0-19</b>	<b>20-44</b>	<b>45-64</b>	<b>65-74</b>	<b>75+</b>	<b>Male</b>	<b>Female</b>	<b>White</b>	<b>Af Am</b>	<b>N Am</b>	<b>Asian</b>	<b>All</b>
Acute myocardial infarction	0.4	2.2	7.3	13.7	19.1	9.5	8.6	10.0	7.8	6.9	7.3	9.1
Hyperkalemia	0.1	0.5	0.6	0.9	2.2	0.8	0.9	1.1	0.6	0.8	0.6	0.9
Pericarditis	.	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	.	0.1	0.1
Atherosclerotic heart disease	.	0.4	1.6	4.4	8.6	2.9	2.9	3.4	2.2	1.8	2.4	2.9
Cardiomyopathy	0.4	0.7	2.0	5.3	10.3	4.0	3.0	4.2	2.6	2.4	2.3	3.6
Cardiac arrhythmia	0.4	1.5	3.8	7.3	12.1	5.1	5.1	5.7	4.5	4.2	3.4	5.1
Cardiac arrest	3.0	11.6	26.5	48.5	82.8	34.7	36.3	35.6	36.5	30.9	29.5	35.4
Valvular heart disease	.	0.2	0.4	0.9	1.7	0.6	0.6	0.7	0.5	0.5	0.4	0.6
Pulmonary edema	0.3	0.3	0.5	0.8	1.6	0.6	0.7	0.7	0.5	0.6	0.5	0.6
Congestive heart failure	0.2	0.6	2.0	5.8	13.1	3.9	4.1	4.8	2.8	2.9	2.5	4.0
AIDS	.	.	<0.05	<0.05	.	<0.05	<0.05	<0.05	.	.	.	<0.05
Cachexia	0.1	0.3	1.3	3.7	10.8	2.6	3.3	3.5	2.0	2.1	1.7	2.9
Cerebrovascular disease	0.7	2.4	5.1	8.6	13.5	5.5	7.5	6.3	6.6	5.9	6.3	6.4
GI hemorrhage	0.1	0.2	0.7	1.3	2.7	1.0	1.0	1.0	1.0	0.9	1.0	1.0
Other hemorrhage	0.2	0.7	1.2	2.1	3.3	1.5	1.7	1.4	1.9	1.3	1.6	1.6
Septicemia	1.4	4.5	11.5	20.7	29.9	12.8	16.3	13.9	15.6	13.0	10.4	14.3
Pulmonary infection	0.4	0.8	1.8	4.5	10.5	3.6	3.0	3.9	2.2	2.9	3.3	3.3
Viral infection	<0.05	<0.05	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1
Other infection	0.4	1.0	1.9	3.2	4.5	2.0	2.6	2.5	2.1	3.0	1.5	2.3
Malignant disease	0.7	1.1	4.7	10.5	14.1	6.9	5.6	7.2	5.3	4.8	3.7	6.4
WD from dialysis/uremia	0.5	1.5	5.3	16.4	44.9	10.7	14.4	16.2	6.0	12.4	6.2	12.3
Other cause	6.1	18.4	37.1	65.4	105.0	46.7	49.7	50.4	46.7	42.9	31.0	48.0
Unknown cause	.	.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	.	<0.05
All cause	15.5	49.1	115.6	224.3	390.8	155.9	167.6	172.8	147.6	140.4	115.6	161.0
Years at risk	22,476	288,939	629,882	271,838	204,652	793,080	624,707	864,004	452,034	19,129	65,626	1,417,786
Patients	24,581	316,612	724,809	336,133	279,275	938,097	743,313	1,035,783	528,719	22,236	76,003	1,681,410
Deaths	348	14,197	72,798	60,986	79,988	123,625	104,692	149,292	66,723	2,686	7,587	228,317
<b>DIALYSIS</b>												
Acute myocardial infarction	1.1	3.6	10.1	16.0	19.7	12.9	11.3	14.7	9.0	8.4	9.9	12.2
Hyperkalemia	0.1	0.9	0.9	1.1	2.3	1.2	1.2	1.6	0.7	0.8	0.9	1.2
Pericarditis	.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	.	0.1	0.2
Atherosclerotic heart disease	.	0.6	2.4	5.3	8.9	4.1	4.0	5.2	2.6	2.4	3.4	4.0
Cardiomyopathy	1.0	1.2	3.0	6.5	10.7	5.8	4.1	6.5	3.1	3.1	3.3	5.0
Cardiac arrhythmia	1.0	2.5	5.5	8.9	12.7	7.3	6.9	8.7	5.4	5.3	4.8	7.2
Cardiac arrest	8.3	20.2	39.0	59.0	86.5	49.6	49.4	55.0	43.4	39.0	41.9	49.5
Valvular heart disease	.	0.4	0.5	1.1	1.8	0.8	0.9	1.1	0.5	0.6	0.5	0.9
Pulmonary edema	0.7	0.4	0.7	1.0	1.7	0.8	1.0	1.1	0.6	0.8	0.6	0.9
Congestive heart failure	0.4	1.1	2.8	6.7	13.5	5.5	5.5	7.2	3.3	3.8	3.5	5.5
AIDS	.	.	.	<0.05	.	.	<0.05	<0.05	.	.	.	<0.05
Cachexia	0.1	0.6	1.9	4.5	11.3	3.8	4.4	5.5	2.4	2.8	2.4	4.1
Cerebrovascular disease	1.5	4.0	7.1	10.1	14.0	7.5	9.9	9.2	7.8	7.1	8.5	8.6
GI hemorrhage	0.4	0.4	1.0	1.6	2.8	1.4	1.3	1.5	1.2	1.1	1.5	1.4
Other hemorrhage	0.5	1.2	1.7	2.5	3.4	2.1	2.2	2.1	2.2	1.6	2.3	2.1
Septicemia	3.3	7.5	16.3	24.2	31.0	17.7	21.6	20.7	18.3	15.6	14.5	19.5
Pulmonary infection	0.4	1.2	2.3	5.0	10.8	4.8	3.9	5.7	2.5	3.6	4.5	4.4
Viral infection	.	0.1	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2
Other infection	1.2	1.7	2.6	3.7	4.6	2.8	3.4	3.6	2.4	3.8	2.0	3.1
Malignant disease	1.0	1.5	5.7	11.4	14.4	8.8	7.0	9.8	5.9	5.5	4.7	8.0
WD from dialysis/uremia	1.4	2.7	7.8	20.1	47.0	15.4	19.7	25.4	7.2	15.9	8.9	17.4
Other cause	13.9	27.5	46.4	70.3	106.1	58.7	61.9	68.0	52.4	48.3	38.9	60.1
Unknown cause	.	.	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	.	.	<0.05
All cause	36.2	79.4	158.2	259.4	403.6	211.4	220.0	252.9	171.4	169.6	157.2	215.3
Years at risk	7,354	157,966	414,412	220,397	195,134	542,936	452,327	548,161	373,493	14,837	45,466	995,264
Patients	8,993	183,441	503,358	282,253	269,076	680,704	566,417	710,931	448,362	17,788	55,122	1,247,121
Deaths	266	12,536	65,573	57,167	78,747	114,792	99,497	138,646	64,008	2,517	7,146	214,289

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Mortality rates by primary cause of mortality, diabetic & non-diabetic patients, unadjusted (H.29.1–2). Mortality rates by specific cause of mortality: ESRD, dialysis, hemodialysis, & CAPD/CCPD patients, unadjusted (H.a.1–4). Bayesian standardized mortality ratios: by state & territory (H.b).

Age is determined as of January 1 of each calendar year.  
 "All" category includes patients of other & unknown races.  
 U.S. only; patients of unknown age or gender are excluded.

Table H.29 (continued)

**Mortality rates by primary cause of mortality, unadjusted**

per 1,000 patient years at risk, period prevalent patients, 2005–2007 combined

<b>HEMODIALYSIS</b>	<b>0-19</b>	<b>20-44</b>	<b>45-64</b>	<b>65-74</b>	<b>75+</b>	<b>Male</b>	<b>Female</b>	<b>White</b>	<b>Af Am</b>	<b>N Am</b>	<b>Asian</b>	<b>All</b>
Acute myocardial infarction	1.0	3.6	10.1	15.8	19.7	12.8	11.6	14.9	9.1	8.4	10.2	12.3
Hyperkalemia	0.2	1.0	1.0	1.1	2.4	1.3	1.3	1.7	0.7	0.9	0.9	1.3
Pericarditis	.	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	.	0.1	0.2
Atherosclerotic heart disease	.	0.7	2.4	5.3	8.8	4.1	4.0	5.3	2.6	2.5	3.6	4.1
Cardiomyopathy	0.7	1.3	3.0	6.4	10.5	5.7	4.1	6.6	3.1	3.3	3.4	5.0
Cardiac arrhythmia	1.0	2.6	5.6	8.9	12.6	7.4	7.1	8.9	5.5	5.4	5.0	7.3
Cardiac arrest	9.0	21.3	40.0	59.7	87.5	51.0	51.4	57.1	44.5	40.5	44.7	51.1
Valvular heart disease	.	0.4	0.5	1.0	1.8	0.8	0.9	1.1	0.6	0.5	0.6	0.9
Pulmonary edema	1.0	0.4	0.7	1.0	1.7	0.9	1.0	1.2	0.6	0.8	0.7	0.9
Congestive heart failure	0.7	1.2	2.9	6.8	13.5	5.6	5.8	7.5	3.4	4.0	3.7	5.7
AIDS	.	.	.	<0.05	.	.	<0.05	<0.05	.	.	.	<0.05
Cachexia	.	0.6	1.8	4.4	11.1	3.7	4.5	5.5	2.4	2.5	2.5	4.1
Cerebrovascular disease	2.4	4.3	7.3	10.0	14.0	7.7	10.1	9.4	7.9	7.2	9.2	8.8
GI hemorrhage	0.5	0.4	1.1	1.6	2.8	1.5	1.4	1.6	1.2	1.2	1.5	1.4
Other hemorrhage	0.5	1.3	1.8	2.6	3.5	2.2	2.3	2.2	2.3	1.6	2.5	2.2
Septicemia	2.6	7.6	16.5	24.1	31.1	18.0	21.9	21.1	18.6	15.7	15.0	19.8
Pulmonary infection	0.5	1.3	2.4	5.0	10.8	4.9	4.0	5.9	2.6	3.7	4.7	4.5
Viral infection	.	0.1	0.3	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2
Other infection	0.7	1.4	2.3	3.1	4.2	2.5	3.0	3.2	2.2	3.0	1.8	2.7
Malignant disease	1.0	1.6	5.9	11.5	14.6	9.1	7.3	10.2	6.2	5.9	4.9	8.3
WD from dialysis/uremia	1.4	2.8	8.0	20.1	47.3	15.8	20.5	26.5	7.4	16.2	9.2	17.9
Other cause	13.6	28.6	47.1	70.5	105.8	59.6	63.5	69.7	53.4	48.6	40.7	61.4
Unknown cause	.	.	<0.05	.	<0.05	<0.05	<0.05	<0.05	<0.05	.	.	<0.05
All cause	36.6	82.6	160.5	259.3	404.0	215.1	226.0	260.0	174.7	171.9	164.9	220.1
Years at risk	4,202	138,031	377,664	205,369	185,910	498,796	412,380	492,847	351,815	13,795	40,520	911,176
Patients	5,210	160,163	457,868	262,055	255,567	624,294	516,569	638,953	422,418	16,519	49,286	1,140,863
Deaths	154	11,399	60,601	53,259	75,101	107,302	93,212	128,154	61,452	2,372	6,682	200,514
<b>PERITONEAL DIALYSIS</b>												
Acute myocardial infarction	1.4	3.6	10.8	19.9	22.6	14.0	9.0	13.9	7.1	7.1	7.7	11.6
Hyperkalemia	.	0.3	0.4	1.2	1.7	0.6	0.6	0.7	0.3	.	1.1	0.6
Pericarditis	.	0.2	0.2	.	0.2	0.1	0.2	0.1	0.2	.	.	0.1
Atherosclerotic heart disease	.	0.3	2.5	6.3	11.8	3.9	3.2	4.5	1.9	.	2.1	3.6
Cardiomyopathy	1.4	0.9	3.5	8.5	17.6	6.6	3.6	6.6	2.6	1.0	2.8	5.2
Cardiac arrhythmia	1.0	2.0	5.3	9.6	17.0	6.9	5.7	7.6	4.1	5.1	3.8	6.4
Cardiac arrest	7.5	12.8	30.7	53.2	71.8	36.9	30.6	38.5	27.0	21.4	19.6	33.9
Valvular heart disease	.	0.2	0.5	1.5	2.1	1.0	0.5	1.0	0.1	2.0	0.4	0.8
Pulmonary edema	0.3	0.4	0.6	0.9	1.4	0.6	0.7	0.8	0.4	1.0	.	0.7
Congestive heart failure	.	0.6	2.5	5.5	14.8	4.4	3.2	4.9	1.8	1.0	1.7	3.8
AIDS	.	.	.	.	.	.	.	.	.	.	.	.
Cachexia	0.3	0.6	2.8	7.0	16.5	4.4	4.3	5.4	2.4	6.1	1.7	4.4
Cerebrovascular disease	0.3	2.5	5.7	11.4	15.2	6.0	7.6	7.7	5.6	5.1	3.0	6.8
GI hemorrhage	0.3	0.1	0.7	1.5	3.1	1.0	0.8	1.0	0.8	.	0.6	0.9
Other hemorrhage	0.7	0.4	1.1	1.5	2.1	1.3	0.9	1.1	1.0	2.0	0.6	1.1
Septicemia	4.5	7.3	15.4	27.5	32.3	15.1	19.0	18.3	15.5	16.3	10.6	17.0
Pulmonary infection	0.3	1.2	1.8	4.7	10.7	3.4	2.7	3.6	1.8	2.0	2.6	3.0
Viral infection	.	.	0.1	0.1	.	0.1	<0.05	0.1	<0.05	.	.	0.1
Other infection	1.7	3.2	6.8	12.2	14.2	6.2	8.9	8.2	6.3	15.3	3.6	7.5
Malignant disease	0.7	0.4	4.4	11.1	11.0	6.2	4.1	6.7	2.6	1.0	2.6	5.2
WD from dialysis/uremia	1.4	2.1	6.7	21.3	45.8	11.7	12.6	16.4	3.4	13.3	6.4	12.1
Other cause	15.4	18.4	34.8	57.8	91.5	40.5	40.0	45.0	33.4	37.7	22.5	40.3
Unknown cause	.	.	.	0.1	.	<0.05	.	.	<0.05	.	.	<0.05
All cause	37.4	57.4	137.1	262.8	403.4	171.0	158.2	192.1	118.5	137.7	93.3	164.9
Years at risk	2,915	18,234	33,869	13,659	8,109	39,875	36,910	49,898	20,187	980	4,704	76,786
Patients	3,490	20,768	40,652	17,499	11,149	48,951	44,607	62,286	23,521	1,167	5,471	93,558
Deaths	109	1,046	4,644	3,590	3,271	6,819	5,841	9,587	2,393	135	439	12,660



Table H.29 (continued)

**Mortality rates by primary cause of mortality, unadjusted**

per 1,000 patient years at risk, period prevalent patients, 2005–2007 combined

<b>TRANSPLANT</b>	<b>0-19</b>	<b>20-44</b>	<b>45-64</b>	<b>65-74</b>	<b>75+</b>	<b>Male</b>	<b>Female</b>	<b>White</b>	<b>Af Am</b>	<b>N Am</b>	<b>Asian</b>	<b>All</b>
Acute myocardial infarction	0.1	0.7	2.0	4.1	6.8	2.2	1.5	1.9	2.1	1.9	1.4	1.9
Hyperkalemia	0.1	0.1	<0.05	0.1	0.1	0.1	0.1	<0.05	0.1	0.7	.	0.1
Pericarditis	.	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	.	.	<0.05
Atherosclerotic heart disease	.	<0.05	0.2	0.5	1.2	0.2	0.2	0.2	0.1	.	<0.05	0.2
Cardiomyopathy	0.1	0.1	0.2	0.4	0.6	0.2	0.1	0.2	0.3	.	<0.05	0.2
Cardiac arrhythmia	0.1	0.2	0.4	0.7	0.8	0.4	0.3	0.4	0.4	0.2	0.1	0.4
Cardiac arrest	0.5	1.2	2.6	3.4	5.9	2.5	1.9	2.1	3.3	2.8	1.4	2.2
Valvular heart disease	.	<0.05	0.1	0.1	.	<0.05	0.1	<0.05	0.1	.	.	<0.05
Pulmonary edema	0.1	0.1	0.1	0.1	0.1	0.1	<0.05	0.1	0.1	.	<0.05	0.1
Congestive heart failure	0.1	0.1	0.4	1.7	4.2	0.6	0.4	0.6	0.4	.	0.1	0.5
AIDS	.	.	<0.05	.	.	<0.05	.	<0.05	.	.	.	<0.05
Cachexia	0.1	0.1	0.1	0.4	1.1	0.1	0.2	0.2	0.2	.	<0.05	0.2
Cerebrovascular disease	0.3	0.5	1.2	2.4	3.2	1.1	1.2	1.1	1.0	1.9	1.2	1.1
GI hemorrhage	.	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	.	.	0.1
Other hemorrhage	.	0.2	0.2	0.3	0.7	0.2	0.3	0.2	0.3	0.2	<0.05	0.2
Septicemia	0.5	0.8	2.3	5.3	6.7	2.1	2.4	2.2	2.6	3.7	1.4	2.2
Pulmonary infection	0.5	0.2	0.7	2.4	4.1	1.0	0.7	0.9	0.8	0.7	0.8	0.8
Viral infection	0.1	<0.05	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
Other infection	0.1	0.2	0.5	1.0	1.8	0.4	0.5	0.5	0.5	.	0.4	0.5
Malignant disease	0.6	0.6	2.7	6.3	8.1	2.9	2.1	2.8	2.0	2.3	1.3	2.6
WDI from dialysis/uremia	0.1	0.2	0.3	0.7	1.6	0.4	0.3	0.4	0.3	0.2	0.1	0.3
Other cause	2.4	7.5	19.3	44.1	82.9	20.7	17.8	19.9	19.8	24.5	13.1	19.5
Unknown cause	.	.	.	.	.	.	.	.	.	.	.	.
All	5.4	12.7	33.5	74.2	130.4	35.3	30.1	33.7	34.6	39.4	21.9	33.2
Years at risk	15,122	130,973	215,470	51,440	9,517	250,143	172,380	315,843	78,541	4,292	20,160	422,523
Patients	15,588	133,171	221,451	53,880	10,199	257,393	176,896	324,852	80,357	4,448	20,881	434,289
Deaths	82	1,661	7,225	3,819	1,241	8,833	5,195	10,646	2,715	169	441	14,028



Table H.30

**Mortality rates by cause of withdrawal, unadjusted**

per 1,000 patient years at risk, period prevalent dialysis patients, by age, gender, race, ethnicity, &amp; primary diagnosis, 2005–2007 combined

	Patients	Withdraw Access fail	Withdraw Tx Fail	Withdraw Fail/thrive	Withdraw Med. comp.	Withdraw Other	Withdraw Any reason	Did not withdraw	Did not ans quest	All	Yrs at risk	Total deaths
0-4	1,018	2.4	.	1.2	4.8	3.6	12.1	64.2	4.8	81.2	825	67
5-9	866	1.4	.	1.4	.	4.3	7.1	17.1	5.7	29.9	703	21
10-14	2,013	1.9	.	.	0.6	1.9	4.4	23.7	3.7	31.8	1,601	51
15-19	5,096	0.2	.	0.7	2.4	1.2	4.5	23.2	2.4	30.1	4,225	127
20-29	33,162	0.1	0.1	1.5	1.4	1.5	4.7	44.0	3.0	51.7	28,574	1,476
30-39	81,612	0.3	<0.05	2.7	3.1	2.1	8.2	61.7	5.0	75.0	70,778	5,309
40-49	162,625	0.4	0.1	4.2	5.0	3.8	13.5	90.5	7.0	111.0	137,850	15,295
50-59	264,445	0.4	<0.05	7.9	8.0	6.3	22.6	120.8	8.9	152.3	218,452	33,276
60-64	144,955	0.6	0.2	13.0	12.2	9.9	35.9	148.4	10.7	194.9	116,724	22,753
65-69	144,011	0.6	0.1	19.9	15.2	13.5	49.3	173.2	12.8	235.3	113,909	26,803
70-79	264,756	1.0	0.1	35.2	23.7	21.9	81.8	214.6	17.1	313.5	200,537	62,863
80-84	91,432	1.5	0.2	61.3	35.1	35.0	133.0	263.2	21.8	418.0	65,794	27,502
85+	51,130	2.0	0.2	86.6	44.9	51.1	184.7	315.0	31.5	531.2	35,292	18,746
Male	680,704	0.5	0.1	18.9	13.2	12.3	45.0	154.5	11.9	211.4	542,936	114,792
Female	566,417	0.9	0.1	22.6	16.2	14.6	54.4	153.3	12.3	220.0	452,327	99,497
White	710,931	0.8	0.1	29.5	20.3	18.9	69.7	169.2	14.1	252.9	548,161	138,646
Af Am	448,362	0.5	0.1	9.3	7.4	6.6	23.8	137.7	9.9	171.4	373,493	64,008
Oth race	87,828	0.5	0.1	11.1	8.7	6.2	26.6	123.0	8.5	158.1	73,610	11,635
†Hispanic	183,142	0.4	0.1	9.6	8.7	9.2	27.9	126.9	7.5	162.4	150,830	24,492
†Non-Hisp.	1,063,979	0.7	0.1	22.5	15.6	14.1	53.1	158.8	12.9	224.8	844,433	189,797
Diabetes	541,229	0.7	0.1	21.4	16.2	14.1	52.6	176.8	11.4	240.8	424,487	102,234
HTN	350,563	0.7	0.1	22.1	14.3	14.4	51.6	157.8	12.3	221.7	279,714	62,021
GN	133,902	0.5	0.1	12.3	9.1	7.2	29.2	90.8	6.7	126.7	115,980	14,694
Oth. cause	221,427	0.7	0.1	21.4	14.6	14.0	50.7	134.1	17.0	201.8	175,082	35,340
All	1,247,121	0.7	0.1	20.6	14.6	13.4	49.3	153.9	12.1	215.3	995,264	214,289

"All" category includes patients of other & unknown races.  
Age is determined as of January 1 of each calendar year.  
U.S. only; patients of unknown age or gender are excluded.



Table H.31

### Expected remaining lifetimes (years) of the general U.S. population, & of prevalent dialysis & transplant patients

general U.S. population, 2004; ESRD patients, 2007

U.S. 2004	All races			White			African American		
	All	M	F	All	M	F	All	M	F
0-14	71.4	68.8	73.9	71.8	69.2	74.3	67.2	63.7	70.3
15-19	61.6	59.1	64.1	62.0	59.5	64.4	57.5	54.0	60.6
20-24	56.9	54.4	59.2	57.2	54.8	59.5	52.7	49.4	55.7
25-29	52.1	49.7	54.4	52.5	50.1	54.7	48.1	44.9	50.9
30-34	47.4	45.1	49.5	47.7	45.4	49.8	43.5	40.5	46.2
35-39	42.7	40.4	44.7	42.9	40.7	45.0	39.0	36.0	41.5
40-44	38.0	35.8	40.0	38.3	36.1	40.2	34.5	31.6	37.0
45-49	33.5	31.4	35.4	33.7	31.7	35.6	30.3	27.5	32.6
50-54	29.2	27.2	30.9	29.3	27.4	31.1	26.3	23.7	28.5
55-59	25.0	23.1	26.5	25.1	23.3	26.6	22.6	20.1	24.5
60-64	21.0	19.3	22.4	21.0	19.4	22.4	19.1	16.9	20.7
65-69	17.2	15.7	18.5	17.3	15.8	18.5	15.9	14.0	17.2
70-74	13.8	12.5	14.8	13.8	12.5	14.8	13.0	11.4	14.0
75-79	10.8	9.7	11.5	10.7	9.6	11.5	10.4	9.1	11.2
80-84	8.2	7.3	8.7	8.1	7.2	8.6	8.3	7.3	8.7
85+	4.4	3.9	4.6	4.3	3.8	4.5	5.0	4.4	5.1
Overall	25.2	23.4	26.6	25.3	23.6	26.7	23.1	20.9	24.8

Dialysis 2006	All races			White			African American			Native American			Asian		
	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female
0-14	19.8	20.5	19.1	20.5	21.2	19.6	17.2	17.7	16.6	22.0	22.3	21.7	33.3	34.5	32.1
15-19	17.6	18.5	16.6	17.8	18.5	16.9	16.7	17.8	15.5	19.1	19.8	18.6	26.6	27.1	25.9
20-24	14.9	15.8	13.9	14.9	15.6	14.0	14.2	15.3	13.2	16.1	16.6	15.6	23.0	23.5	22.4
25-29	13.2	13.9	12.3	12.9	13.5	12.1	12.9	13.8	11.9	14.0	14.5	13.6	20.2	20.6	19.8
30-34	11.4	11.8	10.8	10.9	11.3	10.4	11.5	12.1	10.7	12.0	12.2	11.9	17.4	17.6	17.2
35-39	9.9	10.3	9.5	9.4	9.6	9.1	10.2	10.7	9.6	10.4	10.4	10.4	14.9	15.0	14.9
40-44	8.6	8.8	8.4	8.0	8.2	7.8	9.0	9.3	8.7	9.1	8.9	9.2	12.6	12.7	12.6
45-49	7.4	7.5	7.3	6.9	6.9	6.8	7.9	8.0	7.6	7.8	7.6	8.0	10.5	10.5	10.6
50-54	6.5	6.6	6.4	6.0	6.0	5.9	7.0	7.1	6.8	6.9	6.6	7.2	9.0	8.9	9.1
55-59	5.6	5.7	5.6	5.2	5.2	5.1	6.2	6.3	6.0	6.0	5.9	6.2	7.6	7.5	7.7
60-64	4.8	4.8	4.9	4.4	4.4	4.5	5.3	5.4	5.3	5.3	5.1	5.5	6.5	6.4	6.5
65-69	4.1	4.0	4.1	3.8	3.7	3.8	4.6	4.6	4.6	4.5	4.2	4.8	5.3	5.2	5.5
70-74	3.4	3.4	3.5	3.2	3.2	3.2	3.9	3.8	3.9	4.0	3.7	4.1	4.6	4.4	4.7
75-79	2.9	2.8	2.9	2.7	2.7	2.7	3.2	3.1	3.3	3.2	3.0	3.4	3.7	3.6	3.8
80-84	2.4	2.3	2.5	2.3	2.2	2.3	2.7	2.6	2.7	2.7	2.4	2.9	3.0	2.9	3.1
85+	1.9	1.9	2.0	1.9	1.8	1.9	2.2	2.1	2.2	2.2	1.8	2.3	2.3	2.2	2.4
Overall	5.9	6.0	5.9	5.6	5.6	5.5	6.3	6.5	6.1	6.4	6.2	6.6	8.4	8.4	8.4

Transplant 2006	All races			White			African American			Native American			Asian		
	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female	All	Male	Female
0-14	55.0	54.7	55.6	55.3	55.1	55.8	52.2	51.9	52.8	51.3	49.7	54.1	63.0	61.8	64.9
15-19	42.4	42.0	43.0	42.5	42.3	43.1	40.3	39.9	40.9	39.4	37.8	42.1	49.6	48.3	51.7
20-24	38.4	38.0	39.1	38.5	38.2	39.1	36.6	36.1	37.3	35.7	34.1	38.4	45.4	44.1	47.4
25-29	35.1	34.7	35.9	35.2	34.8	35.8	33.8	33.3	34.6	33.1	31.4	35.8	41.6	40.3	43.7
30-34	31.3	30.8	32.2	31.3	30.9	32.1	30.3	29.8	31.2	29.5	27.9	32.3	37.4	36.0	39.5
35-39	27.8	27.2	28.8	27.7	27.2	28.6	27.1	26.4	28.1	26.2	24.8	29.0	33.3	32.0	35.5
40-44	24.3	23.7	25.4	24.3	23.7	25.2	23.7	23.0	24.8	23.0	21.5	25.6	29.3	27.9	31.5
45-49	21.1	20.5	22.3	21.1	20.5	22.1	20.5	19.8	21.6	19.8	18.4	22.5	25.4	24.1	27.6
50-54	18.1	17.4	19.3	18.1	17.5	19.2	17.6	16.8	18.7	17.0	15.7	19.6	21.8	20.5	23.9
55-59	15.5	14.8	16.7	15.5	14.8	16.6	14.9	14.2	16.0	14.6	13.3	17.0	18.5	17.3	20.6
60-64	13.1	12.4	14.2	13.0	12.4	14.1	12.7	12.0	13.7	12.3	11.2	14.6	15.5	14.4	17.5
65-69	10.8	10.2	11.8	10.8	10.2	11.8	10.6	9.9	11.6	10.4	9.3	12.5	12.9	11.9	14.8
70-74	8.9	8.4	9.8	8.9	8.4	9.7	8.9	8.2	9.8	8.6	7.7	10.7	10.6	9.7	12.4
75-79	7.5	7.0	8.3	7.4	7.0	8.2	7.7	7.1	8.5	7.1	6.5	9.4	9.0	8.2	10.6
Overall	16.4	15.8	17.4	16.4	15.8	17.3	16.0	15.3	17.0	15.5	14.3	17.9	19.6	18.5	21.6



Table H.32

**First-year mortality rates, ESRD patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>
0-4	87.0	143.7	176.5	92.2	114.0	91.2	115.4	147.2	148.8	154.2	98.1	105.4	109.4	60.0	123.9
5-9	50.8	51.8	53.7	28.4	40.0	35.7	7.6	27.2	33.2	31.2	43.4	49.1	14.0	13.6	34.8
10-14	22.5	17.8	29.0	22.7	28.9	26.9	23.3	20.1	23.0	16.4	34.5	21.4	21.6	21.1	33.3
15-19	34.8	17.3	12.1	27.2	31.1	23.2	30.2	22.0	25.0	19.9	15.0	23.6	26.1	24.3	26.3
20-29	84.3	73.5	76.4	75.2	63.2	45.8	54.2	44.3	62.0	53.6	54.4	66.0	64.0	55.2	57.0
30-39	117.7	121.2	103.7	125.1	100.9	97.9	90.5	92.7	93.8	87.3	87.9	87.0	80.2	84.8	74.8
40-49	136.4	125.9	118.1	118.0	112.9	105.5	110.8	113.1	107.1	115.9	119.0	111.5	114.6	113.9	104.1
50-59	175.2	194.4	172.0	152.0	160.5	154.9	155.3	154.0	156.6	150.9	150.4	154.2	153.9	148.2	141.2
60-64	253.9	264.5	248.4	214.3	212.4	204.5	213.8	215.7	208.9	204.4	206.8	198.4	200.0	185.8	181.6
65-69	308.5	332.8	290.4	268.1	258.2	261.0	276.4	266.2	263.0	257.3	260.8	255.8	250.0	240.3	228.5
70-79	390.9	409.9	379.6	346.6	353.8	358.8	362.3	364.2	365.3	358.1	354.3	352.4	350.6	339.9	333.8
80-84	497.2	505.2	473.7	458.8	486.8	484.6	494.7	494.1	489.6	514.9	475.7	465.8	460.7	464.8	448.7
85+	718.5	653.9	595.0	580.7	602.1	609.8	641.7	639.1	633.5	620.9	627.1	614.6	585.2	591.5	582.6
Male	203.6	239.0	228.2	225.8	226.3	225.0	233.7	232.6	234.9	233.3	233.3	232.0	231.3	227.8	218.1
Female	201.6	228.7	233.8	224.9	230.8	237.6	245.4	249.0	248.0	249.7	251.5	248.2	242.9	234.4	230.1
White	221.6	259.7	259.0	253.5	258.5	265.8	270.5	268.2	269.8	272.1	271.1	267.1	263.6	258.0	248.8
African American	159.0	183.7	181.7	182.6	178.2	173.0	188.1	193.1	193.8	191.2	196.0	197.8	197.2	189.8	184.1
Other race	184.5	185.9	151.1	161.3	186.7	170.2	179.5	190.1	178.8	162.1	167.4	168.0	155.8	154.8	142.1
†Hispanic					174.4	185.5	179.9	185.3	183.3	173.6	181.9	174.9	172.6	165.3	154.6
†Non-Hisp.					235.8	236.9	247.0	247.8	250.5	250.6	250.7	249.5	246.7	241.4	234.6
Diabetes	275.2	292.0	260.1	235.5	239.8	243.5	254.3	250.8	246.2	242.4	243.9	241.1	234.2	229.4	217.1
Hypertension	164.6	242.8	249.4	240.2	239.8	254.4	261.2	261.9	261.2	269.3	261.7	258.6	264.0	258.0	254.9
Glomerulonephritis	80.4	127.8	132.0	132.1	126.6	122.5	120.6	133.2	125.4	122.4	125.8	121.7	116.7	110.3	107.5
Other cause	237.8	238.6	227.0	245.5	254.9	237.9	245.8	246.8	264.0	260.2	268.2	265.7	261.3	250.7	242.7
All	202.7	234.3	230.8	225.4	228.4	230.8	239.2	240.2	241.0	240.8	241.6	239.4	236.5	230.8	223.4
<b>ADJUSTED</b>															
0-19	64.7	68.2	73.6	60.1	72.4	59.6	62.6	64.8	73.0	69.0	59.4	62.8	63.1	45.8	73.4
20-44	137.3	121.8	111.0	121.6	102.9	95.1	98.0	95.7	97.1	95.5	97.2	95.1	92.5	90.9	82.2
45-64	228.0	221.7	190.9	161.9	164.0	156.6	159.6	160.0	158.8	155.4	156.9	155.9	157.3	150.8	143.4
65-74	357.1	374.9	320.1	289.9	282.8	287.8	296.6	289.4	289.0	283.1	285.7	278.6	272.2	265.2	254.3
75+	479.0	479.1	454.1	429.6	453.8	450.9	460.7	462.9	459.2	459.5	446.8	445.1	439.8	435.2	426.2
Male	340.3	345.7	293.6	270.5	265.5	255.3	260.5	256.5	256.5	252.1	249.4	246.8	245.7	241.6	230.4
Female	322.0	305.1	275.2	245.4	248.4	249.7	256.2	257.0	253.9	251.4	252.0	247.9	243.9	236.6	230.5
White	379.8	366.4	312.6	275.7	276.3	275.4	276.9	270.7	269.5	268.2	264.3	258.8	255.6	251.0	241.7
African American	233.2	254.2	237.7	230.7	221.7	211.8	226.7	232.7	231.9	226.7	230.8	233.0	234.6	225.5	217.8
Other race	334.4	279.9	199.6	186.3	210.9	186.8	201.5	208.2	197.5	176.8	182.9	182.8	169.8	167.7	153.9
Diabetes	406.4	388.9	311.6	265.4	267.3	264.7	274.6	267.9	260.6	254.2	254.2	250.7	243.6	239.0	226.1
Hypertension	222.3	265.8	245.5	228.1	225.2	234.3	235.9	236.8	234.7	239.7	231.1	229.1	234.2	228.4	225.3
Glomerulonephritis	169.5	211.0	207.2	192.3	181.2	173.4	170.1	182.9	176.4	173.1	176.4	171.0	167.9	159.3	152.5
Other cause	320.3	311.1	295.2	309.1	315.2	289.2	297.8	297.5	317.6	310.5	316.6	313.5	308.4	295.1	283.2
All	331.2	326.1	284.6	258.0	257.0	252.5	258.3	256.7	255.2	251.6	250.4	247.2	244.7	239.1	230.2



Table H.33

**First-year mortality rates, dialysis patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>
0-4	48.8	169.2	236.0	114.6	181.2	130.2	160.1	206.2	198.0	206.0	131.7	130.9	133.9	72.6	161.2
5-9	67.1	93.9	75.6	21.3	77.0	29.9	.	32.5	34.5	49.3	67.5	65.9	21.9	10.6	64.9
10-14	38.9	6.3	31.8	20.3	46.1	37.8	28.5	34.5	34.4	20.4	54.1	18.9	21.1	32.6	47.3
15-19	38.2	30.3	12.4	29.4	38.3	27.3	40.8	25.9	33.2	28.0	22.9	31.5	32.3	33.1	34.8
20-29	98.1	87.8	94.6	88.1	74.3	51.4	65.2	51.3	72.3	61.6	64.0	76.0	75.0	60.9	65.5
30-39	121.5	139.2	120.7	143.1	113.4	109.8	103.0	104.1	104.6	98.3	99.2	96.1	89.6	94.0	83.7
40-49	138.8	136.0	125.3	125.7	121.3	113.5	119.6	121.9	117.2	125.5	129.0	120.7	124.1	121.6	112.2
50-59	175.3	197.7	176.7	157.0	165.8	161.3	162.1	160.3	163.8	157.8	158.1	161.6	162.0	155.6	149.0
60-64	254.2	266.3	252.1	219.0	215.6	209.1	217.8	218.9	213.3	209.0	212.8	204.0	206.8	191.6	189.0
65-69	309.3	334.4	291.0	269.8	260.5	263.7	279.2	268.8	266.9	260.8	265.1	261.1	255.2	245.5	235.5
70-79	390.9	410.4	380.1	347.2	354.3	359.3	362.9	364.9	366.6	359.3	355.8	354.0	352.6	342.7	336.5
80-84	497.2	506.0	474.1	458.8	486.8	484.6	494.9	494.3	490.0	515.0	476.0	465.9	461.1	465.0	448.8
85+	705.9	655.4	592.4	580.7	602.1	609.8	642.4	639.1	633.5	620.9	627.1	614.8	585.2	591.3	583.0
Male	216.5	260.3	243.8	238.5	238.3	236.9	245.5	243.7	246.5	244.5	245.1	243.0	242.6	238.5	229.2
Female	212.5	243.3	245.9	234.4	240.3	246.6	255.6	258.5	258.7	259.7	262.0	258.1	253.1	244.2	240.2
White	239.5	286.7	280.4	270.1	275.2	282.9	288.2	284.7	286.9	288.9	288.4	283.1	279.9	273.4	264.1
African American	161.5	187.7	185.8	187.0	181.8	175.8	190.8	195.4	196.8	193.5	199.0	200.8	200.5	192.9	187.3
Other race	187.7	204.7	157.9	167.1	192.1	175.0	185.0	195.5	185.4	167.4	172.7	174.1	161.4	160.7	150.9
†Hispanic					178.6	191.0	185.0	190.4	188.8	178.3	187.7	179.3	177.2	169.7	158.9
†Non-Hisp.					247.8	248.3	259.0	259.1	262.8	262.4	262.9	261.3	258.9	252.9	246.7
Diabetes	294.2	311.7	270.9	242.3	247.2	250.0	260.8	256.8	252.1	247.8	249.8	246.0	239.9	234.2	222.4
Hypertension	170.8	250.2	254.9	244.7	243.7	258.8	265.3	265.6	265.7	273.7	266.4	262.9	268.7	263.0	259.7
Glomerulonephritis	86.5	145.2	147.1	146.9	139.9	135.4	133.9	146.3	138.7	135.5	140.3	136.6	130.5	122.7	122.6
Other cause	250.1	262.3	252.2	271.2	279.2	261.4	271.3	271.6	293.6	289.1	298.3	294.7	289.5	276.5	269.3
All	214.7	252.3	244.8	236.5	239.2	241.4	250.2	250.6	252.2	251.5	252.8	249.9	247.3	241.0	234.1
<b>ADJUSTED</b>															
0-19	80.7	100.7	103.9	77.2	118.6	85.2	97.0	97.3	110.4	105.7	96.6	86.5	84.8	67.5	110.2
20-44	144.3	139.3	127.0	139.9	118.1	109.2	113.0	108.9	110.5	109.3	112.0	108.6	105.9	102.6	93.4
45-64	216.2	224.6	198.0	170.3	172.5	165.4	168.9	168.9	168.3	164.4	166.7	165.2	167.4	159.3	152.3
65-74	352.1	373.6	320.3	291.6	284.7	290.1	299.0	291.7	292.5	286.4	289.6	283.1	276.8	270.1	260.3
75+	477.6	479.3	454.0	429.8	453.8	451.1	461.0	463.1	459.4	459.8	447.2	445.5	440.4	436.1	426.9
Male	310.8	334.8	290.0	269.7	265.0	256.4	262.3	258.0	258.5	254.4	252.7	250.2	249.2	244.7	234.0
Female	298.7	299.7	276.1	249.4	253.4	255.1	262.5	262.8	260.9	258.3	259.6	255.2	251.2	243.1	237.5
White	347.2	356.3	312.0	279.5	281.0	281.8	284.2	277.7	277.6	276.7	273.6	267.7	264.8	259.3	250.5
African American	222.0	248.7	235.8	230.2	221.1	211.4	226.5	231.8	231.9	226.4	231.1	233.3	235.1	225.7	218.4
Other race	295.5	277.3	195.2	187.1	211.5	188.3	202.7	209.8	199.8	178.9	184.3	185.1	171.7	169.9	156.6
Diabetes	385.7	382.7	311.9	269.2	272.6	270.0	280.6	273.5	266.3	259.9	260.5	256.5	249.6	244.1	231.3
Hypertension	220.6	269.3	250.5	233.4	230.6	240.7	242.5	242.8	241.4	246.3	238.0	235.9	241.0	235.4	232.2
Glomerulonephritis	143.0	199.0	196.1	187.2	176.7	169.8	167.3	178.7	173.4	170.3	174.4	170.4	166.2	156.9	153.9
Other cause	304.5	306.3	293.7	310.1	315.3	291.1	301.3	300.1	323.0	316.2	323.7	320.7	315.5	301.3	290.8
All	305.0	318.2	283.5	260.0	259.6	256.0	262.6	260.4	259.8	256.4	256.0	252.6	250.1	243.9	235.5

Table H.34

**First-year mortality rates, hemodialysis patients**

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	.	60.6	395.8	253.7	188.8	171.7	277.6	253.3	609.1	363.9	350.3	215.2	31.7	105.4	265.2
5-9	77.2	87.0	75.9	28.2	159.4	.	.	65.1	98.7	87.4	115.7	121.8	26.7	26.7	80.8
10-14	20.7	.	19.0	11.8	50.3	56.7	51.7	80.5	50.0	18.3	88.2	29.5	35.1	17.0	40.1
15-19	40.4	30.4	4.9	28.0	39.8	41.0	48.5	20.9	46.2	29.9	30.3	37.8	43.9	39.5	42.2
20-29	92.9	84.7	95.4	95.8	79.7	60.2	71.3	59.9	80.3	66.6	70.6	82.3	81.5	67.0	70.0
30-39	107.1	133.8	129.4	156.4	124.8	116.6	111.6	117.3	115.1	109.7	109.6	103.8	97.6	102.6	91.3
40-49	128.4	132.1	131.3	133.9	130.2	119.6	126.8	129.6	122.6	134.0	137.2	128.6	132.6	129.2	120.0
50-59	168.7	194.8	183.2	160.9	169.7	164.6	166.1	165.2	169.4	164.5	165.0	169.6	166.9	162.7	156.3
60-64	237.9	265.3	259.0	218.1	213.2	211.3	220.4	217.8	215.2	214.1	217.8	213.3	212.5	199.6	197.2
65-69	296.7	331.1	287.7	272.4	262.0	257.9	282.5	271.3	270.6	264.3	271.0	267.1	262.9	253.3	243.4
70-79	373.1	413.7	375.9	346.2	357.8	360.8	364.3	367.2	370.2	367.6	362.7	360.7	361.8	353.1	347.3
80-84	487.1	487.1	479.5	462.3	487.7	484.8	494.1	500.9	496.8	515.5	480.1	474.0	466.5	475.1	459.9
85+	634.3	604.0	592.9	573.9	598.9	609.1	641.9	632.7	638.7	624.8	629.4	619.0	596.5	603.2	590.5
Male	205.9	265.3	255.1	247.9	247.3	244.8	252.3	253.3	255.6	254.7	254.0	253.7	253.7	250.3	240.2
Female	200.2	241.3	254.2	243.5	250.8	254.3	266.2	267.8	269.4	271.5	275.1	270.2	264.6	256.8	252.9
White	227.8	296.9	297.7	285.6	290.4	295.7	301.1	298.3	301.0	304.2	303.4	298.3	295.4	290.4	279.9
African American	152.8	181.5	189.9	190.0	187.5	180.4	196.5	201.9	202.7	200.9	206.4	208.4	207.6	200.1	194.7
Other race	171.2	206.2	161.1	179.4	203.6	187.3	195.5	201.0	194.7	177.2	181.4	184.0	169.8	168.6	159.9
†Hispanic					184.6	195.8	191.1	198.9	198.2	185.2	194.4	185.4	185.1	178.1	165.6
†Non-Hisp.					258.3	256.6	268.1	268.8	272.9	274.3	274.6	273.8	271.0	266.1	259.5
Diabetes	263.1	306.0	276.7	243.5	250.5	250.1	263.4	260.7	255.6	253.4	253.8	252.2	245.9	240.4	228.3
Hypertension	154.8	249.0	259.2	250.6	250.7	263.7	270.8	271.9	272.8	282.4	274.3	270.6	276.7	270.6	269.2
Glomerulonephritis	77.6	151.1	162.3	162.5	152.9	148.1	147.8	162.1	155.7	148.2	155.4	151.6	143.0	138.1	134.6
Other cause	245.1	271.2	271.4	298.4	303.8	286.8	293.5	293.8	319.7	316.8	331.6	324.6	320.4	310.4	299.9
All	203.3	254.1	254.7	245.8	249.0	249.2	258.8	260.0	262.0	262.5	263.7	261.3	258.6	253.2	245.8
<b>ADJUSTED</b>															
0-19	73.1	53.4	71.7	71.4	104.0	93.0	104.1	81.1	140.1	100.5	114.7	95.1	75.4	67.3	99.7
20-44	130.6	132.8	134.8	151.9	128.9	118.1	121.9	120.0	120.0	119.3	122.0	116.0	113.7	109.6	100.4
45-64	199.7	223.6	207.3	175.6	177.9	170.9	174.9	174.5	174.1	172.2	174.6	174.8	174.5	167.7	160.6
65-74	327.8	372.8	318.3	293.5	289.1	289.5	303.8	295.4	297.3	295.2	297.5	291.0	285.7	280.2	270.2
75+	450.8	468.9	452.6	431.2	455.9	453.1	460.8	465.9	465.6	464.1	453.2	452.5	449.6	447.3	437.7
Male	289.4	334.1	296.0	275.3	270.5	261.1	266.3	264.5	264.9	262.4	258.9	258.7	257.7	254.2	243.0
Female	273.7	289.9	277.4	253.0	258.4	258.2	268.8	267.4	267.2	266.0	269.3	263.5	258.9	252.7	247.1
White	320.2	355.1	318.1	285.2	286.9	285.7	289.1	283.3	284.3	284.9	281.6	276.3	273.5	270.0	260.5
African American	207.5	236.5	235.0	229.9	223.7	213.7	230.5	236.7	236.0	232.5	237.5	239.8	240.8	232.0	225.2
Other race	265.9	271.4	192.7	195.8	218.2	197.9	209.8	211.5	205.3	185.8	190.7	192.5	177.5	174.2	163.3
Diabetes	346.5	374.6	315.8	268.7	274.5	269.0	282.6	276.6	268.9	265.2	264.2	262.3	255.4	250.6	237.4
Hypertension	202.4	268.8	252.2	237.0	236.4	244.2	246.3	247.1	246.7	252.8	244.4	241.9	247.3	241.9	240.2
Glomerulonephritis	127.5	201.2	206.3	200.0	184.7	179.2	177.8	190.7	187.8	180.5	187.4	184.5	175.9	169.8	164.5
Other cause	296.5	307.3	302.9	327.3	329.4	307.5	315.3	312.8	341.4	335.3	348.1	342.1	337.7	327.9	315.3
All	281.9	313.1	287.1	264.5	264.8	259.9	267.7	266.0	266.1	264.2	263.8	261.0	258.3	253.4	244.8



Table H.35

**First-year mortality rates, CAPD/CCPD patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>
0-4	405.5	198.6	146.4	93.5	199.6	118.4	148.1	210.1	142.4	160.7	98.1	116.3	157.7	60.4	150.5
5-9	154.2	117.2	30.8	19.0	43.5	42.4	.	16.8	.	16.8	.	26.0	19.8	.	54.5
10-14	223.1	15.7	30.0	34.3	48.9	23.7	12.1	.	21.5	24.2	11.8	10.5	8.2	39.3	56.2
15-19	.	35.7	33.6	28.8	38.2	.	22.6	36.1	.	25.3	.	13.2	.	.	.
20-29	89.1	109.6	102.7	65.5	58.8	15.8	37.4	15.3	41.2	46.8	33.3	42.4	34.0	21.9	43.3
30-39	244.5	150.1	101.9	97.5	76.6	82.1	70.6	46.3	47.1	37.7	39.8	56.7	44.9	40.9	28.3
40-49	159.5	159.5	113.9	88.5	86.5	83.7	80.7	75.6	80.1	66.2	63.9	67.5	60.6	64.9	44.4
50-59	247.4	216.0	161.2	135.5	147.4	141.8	131.0	133.0	124.0	104.8	107.5	101.5	118.5	86.1	88.6
60-64	248.5	280.0	237.6	225.1	234.3	195.7	205.3	223.2	205.4	173.0	162.0	129.6	150.0	130.7	115.9
65-69	465.4	351.9	316.8	265.0	256.3	291.0	248.2	253.0	240.2	235.5	221.6	200.6	195.0	173.2	152.7
70-79	579.8	398.2	421.9	360.4	346.9	355.5	357.4	354.6	346.2	297.2	301.3	295.2	265.8	255.1	228.3
80-84	693.1	735.1	472.4	477.3	508.4	539.9	579.8	449.5	444.3	520.3	525.3	385.0	394.8	357.8	384.0
85+	.	.	765.5	807.9	682.5	721.6	796.3	988.6	757.1	765.0	610.1	713.0	495.1	575.4	595.7
Male	285.8	235.8	205.5	195.4	194.6	185.9	190.3	173.5	178.3	160.5	173.7	152.7	152.5	133.7	131.5
Female	261.0	251.1	218.5	188.1	184.2	193.8	185.6	188.6	174.8	171.3	149.6	157.0	141.3	137.3	124.7
White	285.4	252.1	228.8	209.9	211.1	216.6	214.4	204.1	198.2	192.4	189.7	178.1	166.9	154.1	149.1
African American	229.8	212.3	165.4	162.4	137.6	125.0	122.0	110.8	125.0	99.2	97.2	105.4	105.4	100.0	79.3
Other race	207.6	204.2	143.6	105.0	142.2	102.7	111.6	154.3	110.6	91.7	95.1	91.1	85.1	67.9	62.3
†Hispanic					141.6	146.4	132.2	116.7	109.5	97.7	115.4	115.2	86.9	65.4	70.9
†Non-Hisp.					196.0	195.1	195.1	189.2	187.9	174.1	169.4	160.4	156.3	144.9	136.9
Diabetes	442.3	327.6	252.2	231.6	227.0	242.8	236.2	221.0	217.4	192.3	205.2	175.5	173.2	161.8	153.2
Hypertension	284.3	258.3	240.4	209.2	198.1	210.2	203.8	206.3	189.3	184.8	184.0	187.8	174.8	176.7	150.0
Glomerulonephritis	130.6	119.8	97.1	93.5	93.7	80.3	69.5	68.4	53.6	73.4	53.3	56.6	55.4	38.6	55.9
Other cause	241.5	231.6	200.2	168.5	180.2	140.7	158.4	151.6	169.3	155.2	125.9	143.1	131.0	105.6	104.1
All	273.5	242.8	211.4	192.1	189.7	189.6	188.1	180.6	176.7	165.4	162.6	154.7	147.6	135.3	128.5
<b>ADJUSTED</b>															
0-19	346.9	165.6	104.4	85.4	142.0	73.4	92.8	119.8	82.2	108.9	56.7	80.8	95.1	54.2	124.5
20-44	197.3	161.6	110.9	96.2	81.7	70.2	69.4	55.0	54.8	53.3	41.6	63.5	50.3	52.1	40.0
45-64	264.4	232.1	172.5	145.1	148.7	136.4	132.8	133.8	132.0	109.4	109.9	98.2	112.3	91.2	85.6
65-74	571.6	382.3	339.6	286.7	269.3	288.7	263.9	271.0	260.2	228.5	231.5	212.2	211.0	192.7	172.1
75+	786.0	593.0	522.7	463.6	467.5	484.5	516.8	463.8	447.1	454.4	430.0	412.2	344.8	338.6	332.8
Male	447.0	344.7	276.3	245.0	240.4	225.2	226.8	206.9	210.3	185.4	202.2	177.1	179.7	155.2	150.9
Female	476.4	388.6	301.3	244.5	240.6	249.5	237.5	244.6	228.5	218.0	185.1	196.0	181.8	172.6	157.4
White	502.5	383.9	306.2	260.0	258.8	262.5	257.0	246.0	236.8	224.5	218.7	204.2	195.7	176.9	172.2
African American	418.3	365.7	280.3	251.3	218.2	197.3	187.7	171.1	197.0	153.1	146.0	157.5	166.1	152.3	121.1
Other race	382.7	358.3	235.4	139.7	194.1	133.6	156.8	215.4	156.0	122.0	125.5	122.3	116.1	97.3	83.5
Diabetes	637.1	446.0	320.5	281.2	275.1	286.1	277.2	259.4	256.3	220.8	233.0	200.7	197.4	181.6	172.9
Hypertension	354.4	288.6	254.7	217.7	200.1	211.8	201.9	210.6	187.1	184.2	178.0	184.1	171.1	168.6	142.5
Glomerulonephritis	248.3	194.4	160.3	142.6	147.7	124.2	109.7	108.5	87.3	114.5	83.0	86.6	93.6	68.5	87.8
Other cause	374.6	330.0	292.8	248.5	265.2	210.6	233.5	225.0	246.9	220.4	183.1	208.2	197.8	154.1	151.4
All	460.8	364.7	288.0	244.9	240.5	236.3	231.7	223.8	218.1	199.4	194.4	185.5	180.3	162.6	153.4



Table H.36

**First-year mortality rates, first transplant patients**

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
0-4	133.5	68.1	146.6	45.0	37.7	33.1	0.0	42.2	32.1	31.3	42.6	26.9	34.5	37.5	23.2
5-9	58.3	20.0	79.2	41.8	16.1	9.1	25.8	18.0	10.5	8.3	7.3	15.3	8.9	16.3	8.6
10-14	32.8	17.7	87.0	20.6	20.9	5.7	10.4	8.9	0.0	14.3	4.9	12.3	14.3	8.0	17.2
15-19	51.5	3.3	57.3	11.3	3.1	13.1	7.0	8.2	3.0	5.7	3.0	11.0	16.6	9.5	4.4
20-29	64.8	34.8	27.7	19.6	12.1	15.4	10.5	16.1	12.5	14.4	16.5	11.8	7.9	14.7	11.8
30-39	111.9	51.5	47.2	27.4	32.1	26.5	26.9	22.7	24.2	19.9	24.1	21.5	17.8	23.1	16.4
40-49	148.5	81.3	70.5	46.7	41.6	43.3	33.9	35.6	35.9	32.5	32.4	29.0	26.8	35.2	24.9
50-59	174.2	140.0	94.7	72.4	67.8	78.8	58.1	63.6	69.7	53.3	55.2	48.6	50.8	51.1	47.4
60-64	223.1	107.6	131.4	100.4	88.8	78.5	96.6	92.8	90.2	88.4	70.7	72.3	61.2	59.0	54.4
65-69	207.6	162.5	150.4	153.4	128.6	123.2	95.8	103.8	107.6	97.1	78.5	78.8	94.0	96.5	67.8
70-79	.	262.4	173.7	113.1	97.6	158.7	174.8	129.2	118.8	127.2	119.9	110.1	99.8	85.9	98.7
80-84	.	.	.	.	.	.	154.2	182.3	117.8	.	.	.	44.5	251.3	164.3
85+	.	559.6	.	.	.	.	.	.	693.1	.	.	.	.	693.1	154.2
Male	110.9	70.4	73.2	54.9	49.1	49.2	46.2	48.3	53.0	46.3	46.9	45.7	44.7	49.2	44.4
Female	103.0	62.5	62.8	45.0	46.0	53.9	43.1	44.8	44.7	42.1	40.4	36.1	36.5	39.9	31.0
White	105.6	64.4	72.7	56.2	47.5	50.6	44.1	45.6	46.6	41.8	42.6	40.6	42.1	44.6	39.0
African American	121.2	76.8	56.5	39.7	50.7	57.5	50.1	50.9	61.6	53.2	50.4	48.5	43.5	50.4	43.2
Other race	85.2	76.0	64.9	32.8	39.1	30.7	34.9	46.8	39.6	43.2	40.2	30.6	30.4	38.9	31.2
†Hispanic					33.2	34.8	30.6	40.0	42.4	37.2	29.6	32.9	31.3	40.9	32.3
†Non-Hisp.					49.5	53.1	46.9	47.8	50.6	45.7	46.6	43.2	43.1	46.3	40.5
Diabetes	162.1	96.2	88.7	72.6	66.4	72.4	66.4	66.2	71.5	64.0	65.5	63.7	61.3	68.7	63.4
Hypertension	74.5	84.5	74.4	54.5	45.4	61.6	45.4	57.9	70.6	57.1	47.5	47.3	42.0	46.6	37.4
Glomerulonephritis	56.0	39.1	46.6	33.0	32.5	30.8	27.1	29.7	28.8	21.2	28.5	25.8	25.9	27.4	22.8
Other cause	140.6	68.0	71.9	45.4	45.2	43.3	39.3	37.8	35.3	37.9	34.2	31.1	33.6	35.8	29.5
All	107.9	67.3	69.0	51.0	47.8	51.1	44.9	46.9	49.6	44.6	44.3	41.8	41.5	45.5	39.3
<b>ADJUSTED</b>															
0-19	71.8	24.4	110.7	31.0	20.9	19.9	14.0	20.3	9.7	17.6	14.1	19.5	24.4	19.9	14.9
20-44	131.5	59.7	57.0	34.8	33.1	33.0	28.8	30.0	30.6	27.6	27.7	23.5	21.9	30.4	20.7
45-64	249.1	150.9	111.0	79.3	72.1	77.2	65.1	68.4	71.4	60.1	59.2	55.5	51.9	53.8	48.6
65-74	221.8	219.4	179.9	150.9	132.5	142.1	119.3	113.2	117.3	106.2	91.8	92.7	94.0	94.5	78.4
75+	.	358.0	435.5	215.1	60.1	177.0	232.8	231.1	138.8	201.9	165.3	106.8	161.6	148.9	138.1
Male	453.7	241.8	217.1	141.9	123.0	120.6	108.8	112.6	118.4	102.0	99.6	94.3	90.6	96.2	84.7
Female	442.5	220.2	194.4	122.4	118.5	138.0	107.7	111.6	106.4	97.4	89.5	80.6	78.8	84.3	65.5
White	471.4	236.0	224.8	150.3	123.0	129.7	108.0	111.4	107.5	95.4	92.2	86.5	86.8	88.5	75.5
African American	377.5	211.9	145.5	92.1	113.0	123.6	106.4	106.7	127.1	106.4	99.0	94.3	82.2	94.7	79.3
Other race	287.6	254.7	180.7	89.9	90.5	72.1	79.8	102.4	85.1	88.8	82.8	60.8	61.3	73.2	60.2
Diabetes	431.0	230.9	197.9	142.2	126.0	133.8	119.7	115.7	120.6	106.5	106.2	100.9	95.4	104.3	94.4
Hypertension	189.1	192.4	146.7	101.1	81.9	107.9	77.9	99.1	118.1	92.5	75.1	74.8	64.2	69.9	55.1
Glomerulonephritis	225.6	139.4	144.7	92.0	89.0	84.2	73.4	78.7	73.7	53.3	68.4	61.1	63.4	63.5	51.0
Other cause	440.4	199.6	195.5	116.2	111.9	105.5	93.9	91.3	80.4	86.9	77.0	66.7	72.1	74.6	61.0
All	447.2	232.4	207.3	133.8	120.6	126.9	107.8	111.6	113.1	99.6	95.1	88.5	85.5	91.1	77.2



Table H.37

**Second-year mortality rates, ESRD patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
0-4	129.2	56.1	72.8	49.5	48.1	32.4	51.7	20.9	50.6	61.4	43.4	53.7	25.4	22.7
5-9	42.6	10.7	32.0	14.5	6.8	.	31.0	20.9	.	19.2	12.7	21.8	14.2	20.8
10-14	23.0	18.1	24.8	23.3	14.8	15.7	19.9	3.4	10.0	20.1	19.4	25.1	18.9	3.1
15-19	26.3	15.1	20.5	18.6	35.9	31.2	26.9	24.3	27.4	25.9	18.6	20.4	23.5	30.0
20-29	64.7	58.8	47.4	51.6	42.8	43.0	43.9	45.9	48.3	47.0	48.5	41.4	42.8	40.6
30-39	107.0	108.7	82.5	78.7	81.4	75.1	78.7	74.0	68.8	69.5	67.8	69.1	63.8	71.3
40-49	142.5	118.9	107.3	108.8	105.8	101.5	101.1	101.6	100.4	104.6	95.4	95.3	93.7	92.3
50-59	171.6	188.4	177.8	155.8	146.0	150.9	150.4	151.4	144.5	140.1	139.1	137.2	126.9	127.1
60-64	204.8	261.7	237.2	212.4	199.9	201.1	204.4	191.3	186.5	184.5	180.4	176.8	162.4	173.8
65-69	284.5	288.1	285.2	256.6	252.9	255.2	244.7	250.8	233.1	211.4	223.5	211.0	206.8	193.1
70-79	352.7	343.6	355.3	331.1	319.1	336.9	320.9	314.2	308.9	299.7	294.1	291.7	277.7	275.2
80-84	593.9	401.5	448.2	436.3	420.3	446.0	413.0	414.4	416.6	402.8	387.2	381.9	369.0	346.2
85+	719.1	672.4	566.1	572.1	523.4	551.3	516.5	538.0	492.6	484.5	525.4	492.0	466.1	489.9
Male	186.0	204.8	201.0	192.4	190.9	200.2	193.9	192.6	186.3	184.5	188.1	184.7	175.2	175.0
Female	166.0	188.1	207.1	208.9	198.9	206.5	206.6	206.5	203.5	197.6	193.9	191.7	182.6	180.8
White	187.1	209.8	227.3	229.5	223.3	235.0	226.7	223.6	218.6	216.1	214.3	213.6	203.2	200.9
African American	153.7	171.9	166.0	153.6	151.2	152.9	159.5	161.5	157.4	151.6	155.3	150.2	141.6	144.0
Other race	178.1	187.4	142.0	165.1	152.9	162.3	150.3	153.5	143.5	136.7	142.8	133.9	124.6	120.6
†Hispanic					166.6	175.9	157.6	161.3	150.9	149.7	144.9	145.1	133.1	127.2
†Non-Hisp.					198.7	206.9	205.7	204.6	201.8	196.8	198.1	195.0	186.2	186.3
Diabetes	264.5	279.3	263.8	244.2	236.2	240.3	240.9	235.4	223.4	219.6	221.5	211.5	199.7	202.5
Hypertension	156.6	201.2	224.0	207.6	201.1	216.4	206.0	214.1	210.3	206.4	204.2	205.8	196.7	196.2
Glomerulonephritis	95.7	117.6	115.5	114.9	105.3	113.2	104.9	103.9	103.1	97.8	97.1	95.0	91.6	85.3
Other cause	193.1	174.1	149.8	159.3	159.7	162.6	162.0	155.9	159.1	153.1	153.2	156.6	149.1	142.9
All	177.0	197.1	203.8	200.2	194.6	203.1	199.8	199.0	194.2	190.5	190.7	187.9	178.5	177.5
<b>ADJUSTED</b>														
0-19	57.0	36.2	50.4	39.5	47.6	40.9	48.2	30.5	38.1	48.1	36.1	44.0	36.6	34.8
20-44	136.0	111.4	87.8	89.6	85.3	78.1	81.4	82.9	77.6	82.2	77.4	77.0	73.8	74.3
45-64	206.8	217.5	190.1	162.2	153.1	155.4	155.4	150.2	146.5	142.4	139.7	138.0	128.9	132.8
65-74	338.0	316.7	309.6	277.6	276.8	280.1	266.3	266.5	252.6	235.4	239.1	233.3	219.2	212.8
75+	437.3	418.4	429.2	413.8	384.0	412.8	389.9	384.6	379.1	370.0	369.3	359.8	351.3	343.5
Male	336.1	323.3	280.0	247.9	241.5	245.7	233.3	228.8	218.9	214.2	216.2	210.8	199.6	198.5
Female	281.3	268.7	262.1	242.3	228.0	232.0	230.2	227.9	222.1	211.9	206.4	203.0	194.7	193.5
White	347.7	324.7	299.3	269.2	257.7	263.4	250.4	243.2	235.0	228.9	224.2	221.4	210.6	208.5
African American	235.4	249.3	227.3	202.0	196.2	195.8	201.6	204.2	197.1	187.6	191.1	184.7	176.1	178.7
Other race	355.4	307.8	199.6	202.9	183.9	188.2	179.1	179.4	167.5	156.6	165.2	153.8	143.4	137.9
Diabetes	401.9	388.3	330.2	286.6	274.6	273.3	271.6	262.4	247.0	240.2	240.8	229.0	216.5	219.2
Hypertension	227.0	236.9	238.1	212.8	203.7	216.1	200.5	209.6	204.1	197.9	193.7	196.0	188.0	186.5
Glomerulonephritis	215.5	211.3	199.2	182.5	163.5	175.4	161.9	156.1	157.3	150.7	147.4	144.8	141.6	133.1
Other cause	276.4	248.8	210.5	215.9	214.0	214.5	213.7	204.2	208.4	199.5	197.2	201.1	191.1	181.9
All	309.9	296.6	271.2	245.0	234.7	238.9	231.7	228.3	220.3	212.9	211.4	207.0	197.1	195.9



Table H.38

**Second-year mortality rates, dialysis patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
0-4	201.7	41.5	116.1	78.7	48.2	62.9	59.8	38.2	94.1	122.5	62.3	104.1	41.4	45.1
5-9	116.1	36.4	83.5	23.5	19.8	.	67.1	43.7	.	35.4	40.9	45.1	39.2	42.8
10-14	13.8	26.5	40.1	43.4	41.3	34.7	52.3	.	7.3	50.3	34.9	52.1	34.3	7.1
15-19	33.4	11.8	34.2	27.6	64.4	57.1	44.8	43.7	52.6	44.9	26.8	27.8	34.2	52.9
20-29	92.5	103.2	75.1	74.5	60.3	59.7	58.8	62.1	64.2	60.1	62.0	53.4	56.3	51.4
30-39	124.9	152.9	115.0	105.1	103.7	96.0	99.8	95.0	87.9	85.6	84.7	83.8	77.3	85.6
40-49	148.5	145.2	126.2	127.2	123.6	120.1	118.7	117.9	117.5	121.7	109.8	111.2	108.2	106.3
50-59	173.3	204.9	195.4	171.1	160.1	166.1	165.9	165.8	158.6	153.9	153.0	150.8	140.5	140.2
60-64	203.1	266.6	248.6	222.4	208.8	211.3	215.8	201.7	196.4	195.0	193.8	186.7	174.6	187.3
65-69	284.6	289.8	289.7	261.2	258.6	262.5	250.3	257.8	240.7	219.4	232.1	219.2	216.5	203.0
70-79	352.8	344.5	356.4	333.0	320.9	338.1	322.5	316.0	311.9	301.9	296.9	294.7	281.4	280.3
80-84	593.9	402.5	448.1	436.4	420.6	445.8	413.0	415.0	416.8	403.0	387.6	382.3	369.6	346.3
85+	721.9	665.0	566.1	572.1	523.4	551.3	516.3	538.0	492.6	484.6	525.4	492.3	466.1	489.9
Male	213.6	253.9	238.2	220.1	216.6	226.9	217.3	214.9	207.7	204.8	209.2	204.4	194.0	193.6
Female	185.6	219.2	234.9	230.6	217.6	225.8	226.1	226.0	223.1	214.8	210.6	207.7	199.2	197.4
White	220.0	266.3	278.3	268.6	259.8	273.8	261.5	256.8	250.5	245.9	244.1	241.3	230.7	227.3
African American	161.6	186.1	176.3	162.7	158.2	159.4	166.4	168.1	164.5	157.5	161.2	156.2	147.6	150.7
Other race	202.9	239.2	158.9	180.2	164.8	174.2	162.3	164.6	154.2	146.4	153.1	145.9	133.8	131.0
†Hispanic					180.9	192.2	171.9	174.4	162.9	160.3	156.5	155.9	142.8	136.5
†Non-Hisp.					222.6	231.3	228.5	227.0	224.2	217.3	218.7	214.5	205.9	205.9
Diabetes	295.3	334.4	292.8	263.8	253.9	258.0	257.3	250.4	236.8	231.4	234.6	222.5	210.9	213.5
Hypertension	168.6	220.2	241.1	219.9	211.4	227.8	215.7	223.5	220.7	215.8	213.5	214.7	206.7	206.4
Glomerulonephritis	117.5	158.8	153.5	142.6	131.5	142.3	130.8	128.9	129.6	121.2	121.7	119.4	116.2	107.6
Other cause	216.7	212.9	188.6	198.2	194.0	197.7	196.1	190.1	195.0	187.9	184.4	189.6	180.1	172.3
All	200.6	237.0	236.6	225.1	217.1	226.4	221.4	220.1	214.9	209.4	209.8	205.9	196.4	195.3
<b>ADJUSTED</b>														
0-19	83.3	41.8	94.2	73.2	99.3	93.3	95.0	62.9	77.4	102.2	63.6	85.2	65.0	72.6
20-44	161.6	164.7	121.1	121.5	111.4	103.1	104.9	105.9	99.4	103.1	98.1	96.1	92.0	92.1
45-64	199.1	233.5	209.2	179.9	170.1	173.3	173.8	167.2	162.5	158.3	155.4	153.0	144.0	147.7
65-74	333.0	315.9	312.4	281.6	281.5	285.3	270.9	272.0	259.2	241.6	246.0	240.4	227.0	221.5
75+	436.9	418.4	429.5	414.4	384.3	413.1	390.4	384.9	379.6	370.9	370.2	360.5	352.3	345.3
Male	312.9	329.9	289.8	256.4	249.5	255.5	241.6	236.5	226.3	221.8	224.8	219.0	207.4	206.4
Female	264.4	273.9	270.6	252.1	236.8	241.7	240.3	238.0	232.8	221.6	215.9	212.1	204.5	203.3
White	321.6	330.8	312.7	282.4	270.7	278.6	263.7	256.3	248.2	241.8	237.6	234.0	223.9	221.3
African American	225.9	249.6	228.7	204.6	197.3	196.9	203.8	206.1	199.7	189.7	193.1	187.0	178.5	181.6
Other race	331.5	326.1	197.5	207.6	187.7	192.2	183.0	182.5	170.8	160.8	168.5	158.8	146.0	142.0
Diabetes	389.1	413.2	343.4	299.9	287.5	286.8	284.9	274.4	257.6	250.2	252.3	238.7	225.9	228.8
Hypertension	224.4	244.2	248.0	221.1	211.1	224.9	208.3	216.9	212.3	205.7	201.8	203.8	196.4	195.1
Glomerulonephritis	189.3	211.5	203.9	184.4	168.3	181.6	167.0	160.8	164.4	156.0	154.4	151.5	149.8	140.3
Other cause	266.5	251.6	221.0	229.7	224.2	226.0	223.9	215.6	221.0	212.7	207.0	213.6	203.4	194.2
All	289.8	302.6	280.7	254.6	243.6	249.0	241.2	237.4	229.5	221.8	220.7	215.8	206.0	205.0



Table H.39

**Second-year mortality rates, hemodialysis patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
0-4	175.4	223.1	238.9	.	133.5	.	.	117.8	105.4	225.2	117.8	69.0	138.3	117.8
5-9	64.5	.	74.1	.	60.6	.	54.1	80.0	.	.	.	.	.	.
10-14	.	29.9	.	43.5	51.4	18.3	70.8	.	.	35.3	25.3	46.8	18.7	.
15-19	30.5	.	32.3	34.2	73.0	57.0	34.1	49.8	58.8	46.3	35.3	31.9	42.8	49.8
20-29	85.8	93.4	75.9	81.8	59.7	60.0	60.0	64.2	70.3	57.6	63.3	57.5	53.3	52.7
30-39	107.3	156.5	111.6	107.5	108.9	97.8	101.8	98.6	92.7	87.0	90.5	90.2	82.0	92.2
40-49	140.9	145.2	126.4	127.8	124.4	118.2	118.6	118.5	120.1	124.8	113.4	114.7	115.3	110.6
50-59	168.1	196.4	192.8	166.1	156.0	162.8	163.1	167.6	159.0	153.9	156.2	154.8	141.9	145.0
60-64	206.5	264.7	240.8	212.6	201.8	208.2	212.8	199.1	199.5	195.5	194.3	186.2	178.2	190.7
65-69	278.6	284.2	282.0	256.8	252.9	253.7	246.7	253.1	236.0	216.9	234.7	219.0	219.0	200.6
70-79	355.8	338.6	351.6	325.9	312.5	337.9	321.0	314.6	308.1	303.6	297.2	298.7	285.3	285.7
80-84	545.9	393.1	443.7	430.7	421.1	445.6	421.5	416.0	425.5	406.5	384.9	385.0	373.6	350.5
85+	725.6	670.2	549.4	557.9	511.6	550.6	513.7	544.0	498.2	493.1	534.0	489.3	474.3	505.2
Male	209.7	256.5	239.1	221.3	216.1	227.9	219.6	217.0	210.6	208.3	213.6	208.8	200.2	199.4
Female	178.4	215.5	238.5	230.9	220.1	229.0	228.4	231.6	228.2	219.2	216.6	214.1	205.4	204.2
White	213.4	269.7	283.4	273.7	263.4	280.3	266.1	263.0	257.1	252.4	252.3	249.2	240.1	236.6
African American	158.8	185.0	179.7	163.7	160.0	161.0	168.4	171.6	167.5	160.8	164.9	160.1	152.1	155.3
Other race	212.9	239.4	167.2	179.4	169.3	175.5	170.7	168.8	159.1	150.9	157.4	153.3	137.9	135.6
†Hispanic					182.2	191.4	173.2	177.5	164.9	160.6	160.9	158.6	146.3	139.0
†Non-Hisp.					223.5	233.8	231.1	230.9	228.6	222.0	224.2	220.6	212.8	213.2
Diabetes	286.4	317.5	285.1	255.5	246.5	251.2	252.6	248.4	235.4	229.1	235.1	223.1	212.2	214.8
Hypertension	163.0	220.6	241.9	221.0	211.0	230.5	218.3	226.2	222.1	218.7	217.6	218.9	211.6	210.2
Glomerulonephritis	112.0	165.2	165.2	145.9	138.2	150.0	136.2	134.7	139.6	126.7	126.9	122.7	124.6	115.7
Other cause	213.1	220.1	198.0	214.1	208.6	212.1	209.0	203.9	209.2	205.0	199.0	207.0	196.9	189.4
All	195.3	236.6	238.8	226.0	218.0	228.4	223.8	223.8	218.8	213.3	215.0	211.3	202.6	201.5
<b>ADJUSTED</b>														
0-19	61.2	23.6	73.0	62.5	131.2	87.5	76.4	86.5	85.2	92.0	62.7	64.2	71.5	70.1
20-44	143.7	164.7	121.4	125.7	114.1	103.1	106.6	109.0	103.3	104.8	103.2	102.1	96.2	95.9
45-64	191.2	227.6	207.0	176.2	168.4	172.7	172.9	169.0	165.8	160.1	159.0	156.4	148.2	152.8
65-74	322.1	308.7	306.0	277.9	274.4	284.2	269.9	269.6	256.2	242.9	248.0	243.9	231.4	224.5
75+	422.8	412.3	424.8	406.8	382.3	410.1	391.6	386.4	381.7	373.9	372.0	363.3	357.0	351.4
Male	301.1	326.8	284.2	254.0	245.7	253.6	241.9	236.3	227.3	224.1	227.4	222.3	212.4	211.1
Female	246.9	262.6	267.2	247.1	234.4	241.1	238.9	239.8	234.5	222.8	219.6	216.0	208.2	208.1
White	302.2	322.2	305.7	278.0	266.2	277.2	261.8	255.9	248.9	243.0	240.5	237.1	228.6	226.3
African American	219.3	243.6	227.4	202.5	195.9	196.2	204.0	208.2	201.2	191.7	195.8	190.0	182.1	185.5
Other race	339.5	313.2	200.8	201.8	188.1	190.6	188.9	183.4	172.3	162.6	170.5	164.5	147.8	143.6
Diabetes	379.7	392.6	331.6	288.9	277.8	278.3	279.2	271.3	255.2	247.6	252.5	239.3	227.3	230.7
Hypertension	219.7	245.2	246.0	220.7	210.2	227.2	210.1	218.9	213.1	207.6	205.4	207.4	200.9	198.9
Glomerulonephritis	179.1	213.4	210.1	183.4	170.4	186.3	169.2	163.0	172.0	159.0	156.6	152.5	156.7	146.0
Other cause	260.5	252.5	223.6	238.7	232.5	234.7	232.0	223.5	231.1	225.7	216.5	226.7	215.8	207.8
All	275.4	295.2	276.1	250.8	240.4	247.7	240.7	238.1	230.9	223.6	223.7	219.4	210.5	209.7

Table H.40

**Second-year mortality rates, CAPD/CCPD patients**

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

UNADJUSTED	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
0-4	.	23.5	111.1	105.0	42.7	82.4	79.2	20.6	91.4	100.1	58.2	119.2	24.3	38.5
5-9	.	54.1	107.1	46.5	.	.	85.2	32.8	.	33.9	75.2	86.5	69.1	70.5
10-14	.	.	61.3	32.8	39.5	48.8	36.7	.	.	73.3	34.2	68.3	52.6	15.5
15-19	.	24.1	46.5	16.0	36.3	67.0	81.9	22.0	42.3	32.7	.	17.4	13.2	83.8
20-29	57.2	152.3	81.2	59.6	59.4	59.6	58.4	60.6	35.1	89.6	70.3	43.0	77.8	26.8
30-39	215.1	152.8	139.3	101.5	87.4	99.9	90.2	91.5	71.7	89.5	59.4	49.7	47.5	55.2
40-49	134.0	143.9	133.5	125.5	125.3	134.7	130.6	125.7	111.3	109.6	91.5	98.9	64.8	79.5
50-59	198.8	251.3	226.5	200.2	191.6	192.4	197.0	169.0	171.3	169.0	142.3	134.4	140.8	109.2
60-64	108.2	292.4	338.5	281.9	268.4	255.2	259.0	239.0	187.5	215.2	203.7	216.1	178.7	190.5
65-69	462.6	351.2	351.7	300.6	310.5	357.5	304.2	330.1	315.6	264.2	238.1	245.9	225.7	261.2
70-79	387.8	397.3	450.8	417.9	429.2	391.6	385.1	397.6	415.2	338.7	369.9	321.1	305.6	283.7
80-84	.	559.6	552.6	550.8	505.7	575.4	377.3	531.3	388.1	446.0	530.7	486.2	402.9	377.9
85+	.	693.1	.	902.9	959.8	773.2	693.1	632.5	603.0	672.1	520.5	753.8	548.0	462.6
Male	176.3	256.9	262.7	226.2	232.1	241.2	222.4	223.3	207.8	204.0	194.2	195.4	169.9	166.7
Female	257.9	234.0	240.1	233.5	215.0	216.8	220.0	201.9	197.8	196.2	181.2	174.2	160.2	155.9
White	250.1	264.4	293.3	260.8	262.7	261.3	255.8	243.5	236.5	234.5	219.7	226.5	195.1	192.6
African American	105.4	187.3	161.2	159.9	145.3	153.1	153.1	145.1	129.9	127.5	120.5	111.2	98.0	95.6
Other race	80.0	257.3	116.7	192.9	142.4	182.1	117.0	148.1	126.8	126.1	123.7	82.5	108.9	102.2
†Hispanic					177.8	208.6	164.4	157.8	161.0	173.6	122.4	146.5	114.3	111.9
†Non-Hisp.					230.5	232.5	228.9	221.2	210.6	204.0	198.4	191.2	173.5	169.0
Diabetes	256.4	437.4	358.3	309.8	302.6	314.2	308.0	281.6	252.0	261.3	242.4	228.1	205.4	213.2
Hypertension	238.6	230.8	255.0	217.4	225.3	216.2	202.1	209.3	231.4	200.5	193.7	187.6	186.2	179.3
Glomerulonephritis	137.7	140.6	122.9	126.3	114.2	115.1	107.4	107.1	81.7	96.3	95.3	107.1	78.2	61.0
Other cause	236.7	176.4	183.6	160.9	147.1	161.3	147.1	149.0	162.7	144.7	133.8	144.6	121.0	112.8
All	216.3	246.0	252.2	229.6	224.0	229.7	221.3	213.1	203.0	200.3	188.0	185.3	165.6	161.7
<b>ADJUSTED</b>														
0-19	994.0	42.6	130.7	87.6	58.1	104.1	124.1	27.8	59.8	108.5	59.8	129.0	58.9	81.7
20-44	236.2	164.9	130.2	110.8	103.2	109.9	100.5	100.4	85.0	103.3	75.2	63.5	63.5	73.7
45-64	162.0	272.2	246.7	203.6	189.8	189.5	194.2	170.2	156.8	164.4	142.9	147.5	132.9	120.3
65-74	457.0	380.5	386.6	325.1	354.4	331.0	318.7	345.8	336.3	270.3	283.0	248.9	228.3	241.5
75+	832.2	543.3	590.1	557.4	495.7	570.0	454.1	466.5	458.5	439.3	445.0	458.1	413.3	364.2
Male	272.1	380.4	365.4	292.4	295.6	304.2	272.2	272.7	252.3	240.8	234.8	230.9	203.6	196.9
Female	495.1	377.0	347.5	314.8	293.9	291.9	296.2	276.5	269.5	260.8	232.7	225.3	212.0	202.3
White	439.6	407.6	403.3	330.0	329.0	325.7	313.2	300.3	288.3	278.0	259.9	262.5	230.1	222.8
African American	193.1	334.2	280.3	252.5	236.7	249.8	243.5	226.5	208.3	198.8	184.8	171.1	155.6	149.9
Other race	166.3	495.3	192.3	262.9	198.5	235.3	165.7	218.7	186.3	171.4	169.6	111.3	154.6	149.5
Diabetes	363.3	592.2	470.1	385.4	377.2	384.5	374.2	343.4	306.3	309.5	285.4	266.7	239.9	244.9
Hypertension	323.4	269.0	289.2	239.9	242.0	229.6	211.5	223.7	243.9	212.4	198.6	195.8	192.0	178.7
Glomerulonephritis	254.4	224.5	199.9	193.7	178.8	176.2	165.3	169.0	129.4	149.7	149.9	164.3	128.7	106.6
Other cause	369.5	255.5	264.6	237.1	218.4	241.2	215.9	221.8	238.0	206.3	196.0	211.3	182.6	163.7
All	368.5	379.0	357.7	302.6	294.7	298.7	282.9	274.0	259.6	249.2	233.7	228.1	206.7	199.0



Table H.41

**Second-year mortality rates, first transplant patients***per 1,000 patient years at risk, by age, gender, race, ethnicity, & primary diagnosis*

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>
0-4	.	14.2	.	.	39.2	34.2	22.2	17.4	10.9	8.0	26.4	9.1	.	23.2
5-9	20.2	.	.	8.6	16.4	9.2	.	18.3	10.6	.	14.8	15.5	.	.
10-14	33.9	12.0	7.6	5.2	.	.	.	5.4	14.5	14.7	4.1	4.8	.	.
15-19	24.3	19.9	9.9	5.7	12.7	6.6	10.6	8.3	15.1	8.6	.	13.9	2.8	4.8
20-29	33.4	12.4	13.4	10.3	10.6	10.7	9.8	8.1	7.6	11.2	12.1	13.8	7.1	15.8
30-39	40.7	45.5	21.9	16.8	17.1	15.7	13.7	16.2	19.5	15.4	14.9	16.8	16.7	10.0
40-49	80.7	30.4	35.9	20.2	26.8	20.5	23.9	17.9	19.5	26.5	18.1	19.0	14.8	13.8
50-59	72.0	52.3	37.8	36.7	41.1	28.7	31.3	26.5	31.6	37.1	32.2	27.1	25.8	29.1
60-64	87.0	58.5	47.9	48.1	44.1	35.4	46.4	39.9	45.8	50.9	56.5	39.4	41.8	28.3
65-69	80.0	170.6	53.8	82.1	52.5	66.6	56.1	58.1	71.2	46.7	63.8	68.7	53.6	59.8
70-79	693.1	105.4	128.6	58.0	80.0	72.6	67.6	76.1	74.8	71.7	56.8	52.6	64.3	72.9
80-84	.	.	.	.	.	.	405.5	.	133.5	.	287.7	143.1	200.7	154.2
85+	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	50.7	38.0	27.8	26.7	26.1	24.5	26.7	25.0	29.1	29.1	29.7	27.1	25.9	26.4
Female	46.2	29.4	29.0	22.0	30.5	21.7	22.8	20.0	25.1	29.5	26.1	26.1	22.3	23.4
White	47.6	31.0	26.0	24.1	28.2	23.3	22.6	21.1	24.5	28.9	28.1	22.7	24.1	24.4
African American	45.8	48.4	37.3	27.8	31.1	23.3	34.6	30.5	37.5	34.0	29.5	38.0	26.9	28.6
Other race	105.4	32.1	24.4	21.8	9.1	24.5	20.3	16.1	25.1	15.3	25.2	27.2	20.2	21.7
†Hispanic					20.9	20.5	12.4	13.9	17.9	24.4	24.9	21.1	18.3	20.6
†Non-Hisp.					28.7	23.7	26.9	24.2	28.8	30.0	28.8	27.6	25.5	26.0
Diabetes	104.0	58.6	48.9	40.1	41.7	39.4	39.6	35.0	42.3	45.2	45.3	42.2	37.6	37.5
Hypertension	33.7	39.2	32.6	29.8	34.6	25.5	27.0	26.7	35.7	32.1	30.8	31.8	26.1	28.1
Glomerulonephritis	27.7	21.0	15.6	16.2	19.3	13.4	13.8	15.0	15.7	19.4	16.6	14.4	16.2	17.2
Other cause	56.2	31.4	22.5	16.0	18.5	16.7	20.2	17.1	19.8	21.3	19.8	19.5	17.4	17.8
All	49.0	34.7	28.3	24.8	27.9	23.4	25.1	23.0	27.5	29.2	28.2	26.7	24.5	25.2
<b>ADJUSTED</b>														
0-19	37.2	20.3	9.2	7.4	19.3	14.1	10.1	12.0	15.7	12.5	14.3	14.8	3.5	7.7
20-44	62.2	40.1	27.1	18.9	21.3	18.1	18.9	19.6	20.8	21.1	17.5	19.9	15.6	14.6
45-64	109.1	54.7	47.8	37.9	41.6	31.8	35.4	28.4	34.4	41.4	37.4	31.2	30.1	28.2
65-74	174.3	176.2	80.7	81.8	63.0	72.0	65.0	66.2	70.7	51.7	66.7	63.7	58.8	66.4
75+	.	732.8	109.6	61.6	132.8	127.2	82.3	125.0	204.6	148.5	61.8	111.5	102.2	100.1
Male	211.4	133.5	83.8	70.1	66.3	60.9	63.8	59.1	66.3	65.1	64.0	56.9	53.3	52.4
Female	205.4	106.4	92.2	61.2	80.6	57.1	58.8	51.1	61.4	69.7	59.2	59.7	49.2	50.6
White	218.5	116.7	82.1	65.7	74.3	61.0	56.4	52.5	57.7	67.2	61.9	49.2	50.8	49.3
African American	144.2	134.9	96.9	64.8	69.9	50.3	74.1	64.7	78.3	68.2	58.3	74.9	51.0	54.1
Other race	363.7	109.9	68.3	59.5	20.9	57.4	46.6	35.2	53.7	31.4	52.2	54.1	40.7	41.1
Diabetes	282.9	143.0	110.7	79.9	80.4	74.1	72.7	62.3	72.8	76.1	74.6	68.1	59.6	57.8
Hypertension	86.8	91.4	65.4	56.2	63.3	45.5	47.0	46.6	60.8	52.7	49.2	51.0	40.3	42.8
Glomerulonephritis	112.0	75.6	49.0	45.5	53.2	36.9	37.8	40.0	40.5	49.0	40.2	34.5	39.8	40.1
Other cause	179.1	93.4	61.8	41.1	45.9	40.8	48.7	41.3	45.1	49.2	44.8	42.0	37.3	37.3
All	207.9	122.4	86.6	66.2	71.4	59.0	61.4	55.6	64.0	66.4	61.6	57.5	51.3	51.3

Table H.42

**Third-year mortality rates, ESRD patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
0-4	71.5	.	9.5	14.6	28.6	47.1	7.6	14.2	46.5	19.2	6.3	28.0	31.4
5-9	.	.	16.4	7.3	42.0	.	7.9	7.1	20.5	19.5	12.9	14.8	14.4
10-14	5.8	32.5	5.0	19.8	15.0	7.9	4.0	3.4	6.7	17.0	13.1	9.6	9.6
15-19	32.0	33.5	18.8	20.9	21.4	28.3	21.2	30.3	16.8	22.8	25.9	11.3	22.3
20-29	44.7	48.7	42.3	42.4	37.7	31.9	34.7	42.0	45.5	43.2	34.4	36.2	36.9
30-39	72.3	80.8	69.8	68.1	67.2	69.1	65.7	62.9	65.8	62.6	63.7	60.9	58.6
40-49	111.5	108.0	114.9	100.6	102.9	102.4	102.7	98.3	101.7	93.5	98.1	97.5	91.9
50-59	169.8	187.6	166.8	158.3	155.7	154.8	142.7	143.9	140.3	138.3	140.3	132.8	130.6
60-64	228.5	246.6	230.9	213.4	215.1	198.9	191.9	201.5	200.4	191.5	180.2	167.1	169.4
65-69	297.8	273.6	291.5	263.8	270.4	254.5	253.9	246.4	239.9	236.2	228.4	217.9	201.0
70-79	339.8	362.4	354.1	344.1	344.4	337.4	330.4	329.7	303.6	301.1	296.7	304.0	281.0
80-84	388.9	508.8	452.2	459.5	450.9	452.7	432.5	463.9	413.8	443.1	386.4	400.6	383.9
85+	459.5	552.8	565.8	629.7	544.9	486.9	679.6	547.6	547.0	544.1	467.9	529.5	489.6
Male	156.2	179.6	184.6	179.1	184.4	181.4	184.1	183.3	179.6	179.3	175.9	173.8	164.7
Female	153.2	178.8	189.7	200.6	199.5	197.6	193.0	195.3	188.9	187.6	184.1	184.7	177.9
White	157.7	186.4	207.8	214.0	217.1	211.9	209.2	213.1	205.2	206.5	202.0	201.2	192.3
African American	147.9	167.9	156.9	152.7	153.7	154.4	156.8	153.7	152.0	150.2	149.3	148.9	142.0
Other race	159.9	150.9	123.9	158.9	163.1	164.0	160.8	146.7	148.5	135.2	129.4	130.3	119.1
†Hispanic					166.9	162.4	151.3	162.7	147.3	147.1	137.2	130.3	122.1
†Non-Hisp.					195.1	192.6	193.5	192.7	190.5	188.9	186.8	187.3	179.3
Diabetes	244.0	256.4	251.4	242.5	243.4	239.0	236.1	234.9	229.8	215.4	216.2	214.4	202.0
Hypertension	139.7	193.7	195.9	201.9	203.9	196.3	201.0	202.1	192.7	205.2	192.9	196.0	188.6
Glomerulonephritis	79.0	118.5	110.6	102.8	107.8	99.3	100.0	102.5	93.5	96.1	92.3	86.5	86.6
Other cause	171.2	146.9	145.2	135.4	134.6	139.4	134.4	132.5	130.5	136.1	134.3	129.4	123.6
All	154.8	179.2	186.9	189.1	191.4	188.9	188.2	188.7	183.8	183.1	179.6	178.8	170.6
<b>ADJUSTED</b>													
0-19	40.6	43.6	24.7	30.5	39.7	38.6	22.0	30.9	31.3	34.3	31.1	22.4	33.1
20-44	89.2	90.3	79.8	78.3	75.8	73.9	75.9	74.5	80.0	70.9	73.0	74.3	69.9
45-64	214.6	212.2	188.2	163.5	162.8	157.7	148.6	150.0	147.6	143.4	141.8	133.7	133.0
65-74	332.1	313.9	317.8	296.5	290.8	283.2	279.0	270.2	252.1	247.3	245.7	241.3	222.5
75+	414.7	470.0	428.4	418.8	429.5	406.2	413.7	413.0	386.1	393.1	360.6	378.5	354.9
Male	305.0	308.6	280.2	249.8	251.9	240.7	239.5	234.5	226.6	223.0	217.1	212.3	199.9
Female	276.0	273.9	258.6	248.0	244.4	237.1	229.1	230.0	219.3	213.2	207.0	207.4	200.6
White	318.1	316.9	301.4	272.6	272.0	257.6	250.2	250.2	237.5	234.6	226.5	223.3	212.5
African American	237.7	253.9	224.6	209.5	208.1	206.4	206.9	203.3	198.4	193.0	191.1	190.3	183.1
Other race	337.1	275.1	187.0	208.5	208.7	202.6	203.5	182.4	182.0	163.1	158.1	158.1	144.2
Diabetes	384.1	372.4	331.0	295.9	295.1	283.8	277.6	272.4	264.0	244.1	244.0	240.9	226.8
Hypertension	215.1	245.9	225.4	224.5	223.5	211.9	210.7	214.0	201.4	211.8	195.6	200.5	193.5
Glomerulonephritis	191.8	234.1	209.8	177.1	182.2	169.0	168.0	168.3	154.9	159.9	151.7	141.8	144.0
Other cause	261.5	225.9	219.3	198.0	194.5	197.1	191.1	186.6	183.0	190.2	185.4	177.6	168.3
All	290.6	291.3	269.6	248.7	248.1	238.7	234.3	232.2	223.0	218.1	212.1	209.8	199.9



Table H.43

**Third-year mortality rates, dialysis patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
0-4	117.8	.	32.8	22.5	65.1	120.6	.	33.9	33.9	75.5	.	28.2	17.4
5-9	.	.	97.8	.	72.0	.	29.9	40.8	23.5	42.6	32.8	77.8	89.1
10-14	.	41.3	17.7	93.3	36.4	32.1	.	15.5	.	31.7	22.5	39.4	39.9
15-19	58.8	63.3	37.1	40.6	31.8	36.2	33.5	54.1	27.0	49.2	46.2	23.7	32.5
20-29	68.5	103.1	74.8	61.4	55.6	49.5	57.2	60.2	63.8	65.2	49.5	51.7	52.8
30-39	91.4	131.0	112.6	101.1	93.8	100.3	91.9	85.7	90.7	84.6	85.8	82.5	78.5
40-49	128.0	149.5	155.2	129.9	131.4	129.2	129.7	125.7	130.7	118.1	120.8	120.5	112.4
50-59	179.6	218.9	194.3	185.0	181.0	181.2	166.8	165.7	163.6	159.8	162.1	153.6	152.2
60-64	231.9	257.3	245.5	233.6	234.6	217.8	207.5	216.9	220.7	209.0	199.1	187.2	186.6
65-69	298.8	277.3	301.8	273.0	281.0	263.9	266.4	259.5	254.1	251.4	244.3	234.7	216.9
70-79	340.2	364.0	355.4	347.3	347.8	340.6	333.4	333.7	308.4	304.4	302.5	310.9	287.7
80-84	388.9	510.8	453.6	459.9	450.6	453.0	433.1	464.2	414.4	443.5	387.6	401.7	384.8
85+	492.5	563.1	565.8	629.7	544.9	486.9	680.9	547.6	547.0	544.8	467.9	530.2	489.9
Male	200.8	253.8	240.7	222.8	225.7	220.4	221.5	218.1	214.0	212.0	208.4	205.5	193.8
Female	181.3	225.2	232.5	235.0	231.2	229.6	223.2	225.8	218.7	214.6	209.1	211.0	202.5
White	205.5	271.3	286.2	277.0	276.6	271.4	263.9	266.2	255.4	254.3	246.6	245.9	233.0
African American	164.9	191.9	173.7	168.3	168.3	166.3	168.7	165.3	163.9	160.7	161.1	160.4	153.2
Other race	196.8	212.4	157.2	183.5	183.5	183.5	182.8	165.3	168.7	151.6	147.4	148.5	135.6
†Hispanic					191.7	190.0	173.8	184.7	167.7	165.9	155.1	147.3	136.7
†Non-Hisp.					234.1	229.9	229.6	227.6	225.5	221.2	218.2	219.2	209.3
Diabetes	299.0	341.3	300.3	276.6	275.6	270.2	265.0	260.2	254.9	236.7	237.8	234.6	221.1
Hypertension	160.0	224.9	220.9	223.7	223.1	214.0	218.1	218.8	209.1	222.4	209.7	212.9	205.2
Glomerulonephritis	111.2	185.5	167.6	146.0	150.2	139.4	139.0	144.6	130.6	133.3	127.9	123.5	121.7
Other cause	206.5	201.8	205.4	185.2	179.2	185.9	177.4	176.3	175.7	180.6	175.2	172.1	161.3
All	191.5	239.4	236.7	228.7	228.4	224.8	222.3	221.7	216.2	213.2	208.7	208.0	197.8
<b>ADJUSTED</b>													
0-19	80.0	83.3	70.2	84.1	70.2	80.2	44.5	80.3	39.9	86.3	68.7	57.3	62.5
20-44	116.5	158.6	128.2	117.7	109.6	109.7	108.5	105.0	112.5	98.2	100.9	102.3	94.9
45-64	216.4	243.4	218.2	193.8	192.6	186.4	175.3	175.0	174.4	167.9	165.2	156.7	155.1
65-74	328.0	314.9	324.4	304.3	299.2	291.3	288.5	280.5	263.1	257.7	258.4	256.0	235.8
75+	415.5	472.0	429.1	419.7	429.8	406.9	414.5	414.0	387.5	394.3	362.8	380.4	357.1
Male	302.9	337.3	303.0	269.9	270.2	258.5	257.1	249.8	242.5	238.5	233.1	228.9	214.4
Female	264.7	288.1	276.5	265.0	260.5	253.9	245.1	246.0	235.7	228.2	220.8	222.6	214.4
White	308.3	343.1	329.2	298.0	295.7	282.6	273.2	272.3	259.6	256.1	246.5	245.0	231.7
African American	235.7	260.3	229.9	216.4	214.8	210.7	212.2	208.3	204.0	198.0	197.5	196.6	189.5
Other race	323.2	299.8	197.3	218.1	215.0	209.1	212.0	189.4	191.1	170.4	166.1	165.6	151.2
Diabetes	399.6	426.6	361.2	321.1	320.2	308.4	301.6	292.4	284.1	262.0	262.2	258.3	242.5
Hypertension	219.4	259.2	238.2	237.9	235.3	223.4	222.0	225.1	212.8	223.7	208.0	213.6	205.3
Glomerulonephritis	180.6	249.1	226.7	193.2	197.7	184.1	182.2	186.4	170.4	176.6	167.1	160.4	162.2
Other cause	260.0	241.5	244.4	220.6	212.7	216.7	208.5	204.8	204.0	209.9	202.2	198.9	186.0
All	284.4	312.8	290.3	267.8	265.7	256.5	251.5	248.2	239.4	233.7	227.3	226.0	214.4



Table H.44

**Third-year mortality rates, hemodialysis patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
0-4	182.3	.	.	133.5	.	117.8	.	182.3	.	192.4	.	.	117.8
5-9	.	.	.	.	300.1	.	.	182.3	.	182.3	.	218.7	.
10-14	.	100.6	44.5	81.8	44.5	31.7	.	39.2	.	29.0	.	84.3	47.2
15-19	54.2	41.6	26.6	45.9	32.3	36.6	18.5	45.1	18.3	52.6	40.4	18.5	24.4
20-29	61.8	109.8	72.1	64.2	55.3	52.4	59.3	57.8	69.0	66.0	51.4	54.0	49.1
30-39	91.7	127.9	115.6	98.7	94.1	107.2	92.8	89.3	92.7	88.1	91.3	83.1	83.1
40-49	124.4	149.5	143.9	126.0	131.9	127.6	130.5	129.6	130.3	119.7	121.5	124.5	115.7
50-59	176.1	220.8	192.3	181.3	175.8	172.2	167.9	163.1	164.4	158.2	163.5	156.1	156.3
60-64	226.9	265.1	252.2	228.7	230.6	213.5	205.8	217.1	214.9	208.7	199.9	190.0	187.7
65-69	293.3	271.3	295.6	269.4	275.6	260.4	260.6	252.1	254.4	244.8	249.5	234.3	220.4
70-79	336.5	366.5	352.5	344.0	351.7	341.5	335.9	335.0	309.6	306.2	306.5	312.4	293.6
80-84	370.4	507.5	461.6	452.2	446.9	461.1	427.3	466.9	418.3	453.0	394.4	413.4	388.9
85+	575.4	578.7	615.9	616.6	562.1	485.5	697.5	561.2	566.3	562.6	479.1	539.3	492.3
Male	198.7	258.5	243.4	220.5	227.5	219.4	222.6	220.3	215.5	213.3	213.7	210.0	198.9
Female	177.2	231.2	238.3	240.3	236.9	234.4	228.9	231.1	224.7	219.9	215.2	216.9	209.2
White	202.9	281.8	296.2	281.9	283.1	277.3	271.3	273.8	262.2	260.8	256.1	254.4	242.3
African American	159.7	195.7	176.1	170.2	173.3	168.6	171.4	167.7	166.4	163.1	164.4	164.2	157.2
Other race	222.7	213.8	167.4	189.7	189.1	181.7	182.3	166.1	172.9	151.9	153.6	152.1	140.9
†Hispanic					192.2	191.5	173.3	186.3	168.8	168.1	157.4	150.6	141.6
†Non-Hisp.					238.4	231.8	233.7	231.6	229.6	224.8	224.7	225.0	215.7
Diabetes	290.0	334.3	292.9	269.9	269.3	265.0	261.9	257.9	252.8	234.3	238.7	234.7	221.8
Hypertension	155.0	235.3	226.8	222.6	227.7	214.4	223.9	221.0	210.8	226.1	213.6	217.1	210.0
Glomerulonephritis	109.7	189.6	173.4	151.3	155.8	143.5	138.5	149.3	138.6	131.3	130.5	125.3	129.3
Other cause	205.7	208.0	220.0	199.9	196.0	198.0	187.6	190.2	187.3	195.1	192.5	188.2	175.7
All	188.5	244.7	240.9	230.2	232.0	226.5	225.6	225.3	219.8	216.4	214.4	213.2	203.6
<b>ADJUSTED</b>													
0-19	82.4	96.9	49.0	98.2	78.8	72.4	26.5	95.0	25.9	102.9	57.6	66.2	53.3
20-44	110.8	157.4	129.0	119.3	110.7	115.1	109.4	108.0	114.3	100.5	104.5	103.5	95.3
45-64	207.2	246.9	217.2	190.0	190.8	181.4	177.0	176.1	174.4	168.3	167.3	160.8	159.8
65-74	314.9	307.2	317.2	302.4	298.3	290.8	286.9	277.6	265.6	255.6	263.4	257.8	240.8
75+	407.9	484.8	439.3	415.8	435.6	410.4	418.1	418.5	390.7	401.9	370.2	386.9	363.3
Male	293.9	336.9	300.0	263.7	269.3	254.7	256.8	250.2	242.2	238.9	237.1	233.0	219.0
Female	251.1	288.4	275.7	265.2	261.2	255.3	247.6	247.8	238.6	230.7	225.0	226.2	219.0
White	294.8	342.2	327.1	293.0	293.7	280.6	274.1	273.3	260.4	257.5	250.6	248.7	236.5
African American	225.6	260.5	227.6	215.6	217.2	210.8	213.5	209.4	205.1	199.3	200.0	199.7	192.8
Other race	355.9	289.2	203.5	219.1	216.1	203.8	208.0	186.0	191.6	167.5	170.4	167.8	154.6
Diabetes	391.1	418.4	349.8	312.1	311.8	301.7	298.1	289.5	281.2	259.4	263.2	258.8	243.6
Hypertension	214.5	271.8	242.7	235.6	239.8	223.9	227.8	227.1	214.1	226.9	212.2	217.6	210.3
Glomerulonephritis	176.4	248.0	224.7	195.1	198.5	185.5	177.2	187.4	176.6	170.3	166.7	159.4	169.3
Other cause	257.3	241.7	253.8	229.6	225.1	224.7	215.0	213.9	212.6	222.1	215.9	212.5	197.3
All	273.2	312.6	288.3	264.8	265.6	255.2	252.5	249.2	240.6	235.1	231.3	229.8	219.0



Table H.45

**Third-year mortality rates, CAPD/CCPD patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
0-4	.	.	57.2	.	93.3	138.2	.	.	51.3	44.5	.	40.8	.
5-9	.	.	161.1	.	.	.	60.6	.	40.8	.	74.1	.	167.1
10-14	.	.	.	133.1	37.7	32.8	.	.	.	.	42.6	24.1	37.7
15-19	.	101.3	73.5	33.6	17.7	42.6	82.6	101.8	66.6	45.5	53.5	27.4	71.5
20-29	.	84.1	88.2	53.4	58.7	37.8	49.7	79.3	58.1	83.2	41.6	40.5	78.9
30-39	102.2	140.0	120.7	121.0	97.2	82.1	95.9	88.7	89.9	63.6	76.4	102.7	60.5
40-49	187.3	174.7	208.6	156.0	136.0	144.0	145.1	118.1	150.7	120.9	130.1	108.9	103.1
50-59	235.3	227.0	210.2	210.4	218.1	246.9	177.0	206.8	176.9	189.5	180.1	155.1	135.9
60-64	336.5	270.2	246.1	275.8	291.6	271.3	253.4	244.7	323.7	248.5	213.4	204.8	218.7
65-69	530.6	368.7	371.6	314.5	357.1	310.3	362.1	364.4	298.8	352.6	246.1	301.1	228.7
70-79	379.5	413.6	461.3	415.2	393.1	405.2	376.9	405.2	381.9	363.1	348.7	390.0	300.9
80-84	.	798.5	527.4	713.8	604.4	569.8	714.2	659.2	514.3	413.8	506.9	491.7	453.1
85+	.	693.1	287.7	.	492.5	780.2	650.6	530.6	422.9	780.2	578.1	693.1	666.5
Male	261.5	263.3	260.1	248.4	239.9	255.3	247.4	234.0	247.4	239.4	204.2	206.1	187.3
Female	184.9	220.2	226.2	223.3	214.6	210.4	200.6	212.1	190.8	193.0	189.6	201.9	162.1
White	241.7	262.2	282.9	278.7	274.2	268.8	252.7	257.3	252.9	252.2	233.9	244.5	211.1
African American	213.6	187.7	171.7	161.5	142.1	151.2	159.1	156.3	158.8	146.0	134.7	135.1	110.4
Other race	.	220.6	123.7	170.2	163.4	219.2	210.7	167.9	152.0	171.9	114.2	132.7	100.0
†Hispanic	.	.	.	.	199.0	190.0	190.1	196.2	179.0	165.7	138.0	136.6	99.4
†Non-Hisp.	.	.	.	.	231.9	239.6	229.8	227.7	228.0	224.7	207.1	214.9	188.2
Diabetes	374.7	426.5	369.1	322.8	326.0	321.2	313.0	296.3	291.6	274.9	250.0	255.7	232.2
Hypertension	175.6	194.5	216.4	242.2	212.0	228.6	186.5	229.0	215.6	201.0	201.5	208.8	174.8
Glomerulonephritis	127.1	186.2	156.6	134.8	132.9	126.0	152.5	126.3	104.1	147.7	121.5	117.2	93.9
Other cause	240.4	197.7	171.2	149.7	134.7	161.4	154.1	141.9	171.2	166.0	139.2	146.9	119.8
All	224.7	242.1	243.9	236.6	227.7	233.5	224.9	223.4	220.1	217.4	197.1	204.1	175.8
<b>ADJUSTED</b>													
0-19	.	63.6	122.5	76.3	55.8	98.6	64.3	48.8	72.4	68.3	63.8	32.9	91.0
20-44	115.5	176.8	140.0	122.0	113.2	93.8	116.7	108.4	119.1	94.3	97.1	112.4	101.3
45-64	292.6	261.4	242.4	225.8	217.0	233.1	188.2	190.9	204.8	189.6	173.7	154.2	144.6
65-74	481.4	421.8	437.2	348.6	362.3	339.1	355.9	365.8	305.2	334.0	280.0	311.0	244.3
75+	543.8	545.5	491.5	577.8	499.6	537.5	528.4	516.3	498.1	443.3	431.8	497.3	406.2
Male	413.8	403.8	378.0	334.7	321.0	339.6	315.3	295.2	314.0	291.2	257.2	251.6	230.1
Female	380.2	371.1	348.2	318.2	311.6	297.7	283.3	304.4	272.1	264.7	252.4	273.2	220.7
White	440.7	419.3	405.6	366.1	357.6	349.6	320.3	325.8	318.7	304.7	285.5	291.4	253.6
African American	406.4	342.9	304.0	260.6	237.7	252.6	259.0	248.3	262.1	228.6	209.8	211.1	174.8
Other race	.	451.2	199.3	247.9	236.8	297.6	300.0	265.4	225.7	241.6	159.4	176.0	145.1
Diabetes	524.9	593.1	507.6	412.1	420.6	408.5	392.7	370.1	366.3	333.9	303.5	307.9	276.6
Hypertension	269.6	240.1	257.4	284.9	245.0	259.4	202.8	260.9	244.4	226.8	217.1	234.8	191.4
Glomerulonephritis	228.9	297.5	259.6	211.8	212.2	196.4	239.8	204.3	166.0	232.1	193.6	188.1	154.2
Other cause	396.4	290.4	245.3	225.4	205.1	240.6	230.4	213.5	254.4	232.9	209.5	213.7	179.2
All	399.0	388.2	364.4	327.3	316.5	320.3	300.6	298.9	294.6	279.1	254.8	261.1	225.4



Table H.46

**Third-year mortality rates, first transplant patients**

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

<b>UNADJUSTED</b>	<b>1980</b>	<b>1985</b>	<b>1990</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
0-4	.	14.4	26.7	11.6	.	8.7	11.3	.	22.2	.	.	9.2	8.8
5-9	20.6	10.2	.	8.7	25.1	9.3	.	9.3	10.7	8.4	7.5	.	.
10-14	17.4	24.4	.	.	.	.	5.2	.	5.4	4.9	25.1	4.2	4.8
15-19	.	20.3	6.6	5.7	12.8	10.0	.	11.1	6.1	2.9	12.0	14.1	25.5
20-29	15.2	23.6	15.9	13.7	14.9	11.6	6.6	8.2	5.9	13.0	6.6	14.9	8.0
30-39	52.0	32.0	26.0	17.1	18.9	18.4	16.5	17.9	16.2	14.7	16.9	14.2	15.6
40-49	55.2	53.2	38.9	24.7	29.1	24.8	25.2	25.2	17.8	24.8	19.1	21.8	23.3
50-59	106.1	63.5	43.1	44.1	36.2	39.0	39.3	33.5	35.2	32.2	31.1	27.3	30.7
60-64	.	94.7	66.8	63.5	49.0	56.3	55.2	73.5	41.8	66.0	47.4	43.4	45.9
65-69	539.0	150.3	80.5	73.4	79.0	71.4	78.7	87.0	54.2	49.0	53.7	75.0	69.6
70-79	.	.	147.6	110.3	49.8	131.6	66.7	77.3	80.9	61.9	81.9	68.8	68.7
80-84	.	.	.	.	.	.	287.7	.	.	154.2	.	167.1	117.8
85+	.	.	.	.	.	.	.	.	.	.	.	.	405.5
Male	37.9	44.3	37.6	30.4	28.7	29.4	31.6	29.7	23.7	30.3	28.3	29.3	30.4
Female	52.3	34.0	25.9	27.0	29.2	29.8	24.5	31.3	28.0	25.7	25.6	26.3	28.6
White	45.3	36.1	34.9	28.3	26.9	28.2	29.3	29.8	24.9	25.8	26.5	26.3	28.7
African American	32.4	56.3	30.3	35.5	34.3	34.7	27.4	34.7	31.2	39.9	32.1	34.2	33.9
Other race	63.7	38.8	11.0	8.0	31.6	27.0	25.6	20.9	12.1	15.5	16.7	24.5	25.0
†Hispanic	.	.	.	.	20.3	17.4	22.2	26.2	11.4	22.5	11.8	15.2	23.4
†Non-Hisp.	.	.	.	.	29.9	31.1	29.6	30.9	27.5	29.3	29.7	30.1	30.7
Diabetes	52.7	68.9	56.8	40.6	43.9	49.1	46.4	49.2	40.5	40.2	42.8	48.5	49.2
Hypertension	43.8	39.5	36.8	37.1	37.6	30.2	31.6	29.1	32.8	32.2	33.1	25.8	31.3
Glomerulonephritis	31.7	23.7	18.9	19.1	18.5	18.4	21.8	19.1	13.6	20.4	16.6	18.2	17.4
Other cause	50.2	39.9	26.5	23.0	19.1	22.3	16.6	24.3	18.5	22.3	17.9	19.2	19.9
All	43.4	40.3	32.8	29.0	28.9	29.6	28.7	30.4	25.5	28.4	27.2	28.1	29.6
<b>ADJUSTED</b>													
0-19	11.4	27.6	9.3	7.5	13.7	10.1	4.1	8.7	11.9	5.4	18.1	11.7	19.5
20-44	54.0	43.6	29.9	22.3	22.2	21.0	19.1	19.4	17.2	21.3	19.2	20.6	19.7
45-64	106.8	75.9	58.1	45.8	43.2	44.0	43.2	44.9	35.6	40.8	34.1	32.6	35.5
65-74	729.3	153.8	98.1	88.8	80.1	90.7	80.6	92.7	67.5	55.6	63.5	76.8	72.0
75+	.	.	386.2	129.5	.	189.3	117.4	31.8	45.7	80.0	108.1	89.7	99.2
Male	162.0	158.8	115.7	81.4	74.3	74.9	77.0	71.8	55.1	69.0	62.2	62.8	63.7
Female	233.8	124.1	82.8	75.4	77.2	78.6	63.3	80.5	69.0	61.1	58.4	60.2	63.5
White	213.9	138.8	112.3	79.0	72.0	75.4	74.5	75.5	59.8	61.0	59.6	58.1	61.6
African American	102.5	157.1	79.5	83.3	77.6	75.3	59.3	74.3	65.7	80.8	64.0	67.8	64.8
Other race	208.2	129.7	29.2	20.8	68.4	59.5	55.6	42.9	24.3	29.9	32.9	46.4	47.5
Diabetes	142.0	166.0	126.2	79.5	83.4	90.9	83.8	86.4	68.8	66.8	69.4	77.2	76.9
Hypertension	113.7	93.3	74.9	71.4	69.9	54.7	55.7	51.5	56.8	53.5	53.8	41.9	49.2
Glomerulonephritis	132.0	87.2	61.0	54.9	52.0	51.7	61.4	52.0	35.8	52.7	40.8	44.2	43.8
Other cause	162.5	120.9	73.6	59.9	48.0	55.1	40.5	59.4	42.7	52.1	40.9	41.7	43.2
All	187.7	144.5	102.0	78.5	75.0	75.9	71.1	74.7	60.2	65.4	60.3	61.4	63.1



