

L

# Vascular access





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Catheter placements in prevalent hemodialysis patients, with unknowns dropped (billing data)  
per 1,000 patient years, January 1 point prevalent patients, by age, gender, race, ethnicity, & primary diagnosis

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

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

† CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.  
\* Values for cells with ten or fewer patients are suppressed. " " Zero values in this cell.

Table L.1

**Catheter placements in prevalent hemodialysis patients, with unknowns dropped (billing data)***per 1,000 patient years, January 1 point prevalent patients, by age, gender, race, ethnicity, & primary diagnosis*

	1999	2000	2001	2002	2003	2004	2005
0-4	1,235	1,294	2,373	1,333	1,482	944	647
5-9	1,199	900	753	758	847	707	446
10-14	806	618	669	882	586	534	385
15-19	566	627	618	610	643	466	462
20-29	589	566	607	585	554	463	441
30-39	606	575	575	571	519	453	435
40-49	562	539	555	531	496	433	412
50-59	549	532	523	513	482	407	372
60-64	540	519	506	495	471	419	385
65-69	552	544	516	512	484	402	387
70-79	550	514	506	494	465	400	372
80+	550	533	507	504	449	383	363
0-19	662	654	664	683	656	497	453
20-44	587	562	578	568	527	451	432
45-64	549	529	522	508	477	414	382
65-74	552	532	515	507	479	401	383
75+	549	519	502	494	452	391	364
Male	496	478	465	452	426	367	345
Female	622	594	591	585	542	461	432
White	524	501	495	483	459	389	368
African American	605	585	575	565	517	448	416
Native American	439	423	437	456	405	331	307
Asian	433	400	400	394	378	333	318
Hispanic	562	541	511	504	476	416	388
Non-Hispanic	556	532	529	519	484	412	386
Diabetes	617	589	576	563	525	450	416
Hypertension	524	500	483	472	436	383	363
Glomerulonephritis	479	469	465	442	426	372	338
Cystic kidney	458	444	439	438	409	321	322
Other urologic	545	491	528	528	495	407	379
Other cause	561	543	572	562	525	419	407
Unknown cause	540	515	491	499	444	354	351
Missing disease	376	635	297	369	18	594	502
All	556	533	525	514	480	411	385

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



Table L.2

## Arteriovenous fistula placements in prevalent hemodialysis patients, with unknowns dropped (billing data)

per 1,000 patient years, January 1 point prevalent patients, by age, gender, race, ethnicity, & primary diagnosis

	1999	2000	2001	2002	2003	2004	2005
0-4	.	.	.	74.1	.	.	.
5-9	58.5	36.0	.	34.5	110.5	39.3	29.7
10-14	141.1	97.6	159.3	260.6	151.5	140.6	131.8
15-19	84.3	142.8	103.9	154.8	134.9	127.9	149.8
20-29	91.5	88.8	95.3	93.4	116.1	120.9	133.0
30-39	83.8	84.9	87.0	95.5	98.8	110.1	116.5
40-49	73.5	78.8	79.0	83.6	85.1	101.0	114.9
50-59	61.6	66.8	69.3	71.4	78.9	92.0	103.4
60-64	53.9	63.7	63.7	70.2	72.7	88.3	103.7
65-69	60.9	65.1	68.2	74.8	79.8	97.2	103.8
70-79	60.2	62.9	66.4	74.1	77.9	92.8	106.8
80+	57.3	54.2	64.2	70.0	69.5	87.3	91.9
0-19	90.9	126.5	105.6	165.4	134.4	124.1	136.6
20-44	82.4	86.5	86.6	92.5	97.7	110.3	120.8
45-64	61.4	67.0	69.2	72.8	77.9	92.0	104.9
65-74	60.0	63.8	67.6	73.6	80.7	93.9	105.2
75+	59.6	59.1	65.1	73.1	71.7	91.2	99.2
Male	74.3	77.7	79.1	84.8	88.2	102.4	110.7
Female	53.2	56.9	61.4	66.7	71.2	86.6	100.6
White	66.6	69.3	74.1	81.1	84.6	101.3	112.1
African American	61.9	66.7	67.4	70.7	75.1	87.7	99.3
Native American	62.4	62.9	78.8	86.0	84.6	100.0	108.4
Asian	52.2	56.4	55.3	67.8	69.9	86.1	94.3
Hispanic	59.0	61.5	65.7	69.9	73.1	93.2	103.7
Non-Hispanic	67.4	70.2	72.4	78.2	82.3	96.0	106.9
Diabetes	60.3	64.7	68.2	73.7	77.0	95.0	107.8
Hypertension	64.3	67.1	69.0	76.3	77.6	93.8	103.4
Glomerulonephritis	66.8	69.0	73.0	74.5	85.7	89.5	97.9
Cystic kidney	53.3	63.5	64.8	71.5	71.5	76.6	84.9
Other urologic	77.6	79.0	76.1	83.3	86.8	110.3	111.6
Other cause	75.3	81.0	85.7	86.4	97.9	108.9	122.4
Unknown cause	70.2	69.2	73.5	91.7	89.4	95.1	106.2
Missing disease	17.9	48.8	20.5	19.9	.	162.6	153.6
All	64.2	67.8	70.7	76.3	80.3	95.0	106.0

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



Table L.3

**Graft placements in prevalent hemodialysis patients, with unknowns dropped (billing data)***per 1,000 patient years, January 1 point prevalent patients, by age, gender, race, ethnicity, & primary diagnosis*

	1999	2000	2001	2002	2003	2004	2005
0-4	.	.	.	74.1	.	.	71.9
5-9	58.5	72.0	60.2	103.4	73.7	39.3	0.0
10-14	50.4	32.5	74.4	60.1	50.5	84.4	50.7
15-19	130.0	125.8	127.2	138.1	110.2	123.5	99.1
20-29	171.2	149.1	138.1	133.6	120.1	114.7	90.9
30-39	179.6	158.7	152.7	139.1	131.4	118.4	96.9
40-49	175.9	158.8	149.2	139.8	132.0	119.7	102.5
50-59	174.3	158.1	152.5	141.5	136.5	116.4	101.3
60-64	169.6	155.9	144.9	147.6	131.6	123.7	104.9
65-69	180.1	168.5	154.7	147.2	140.6	129.4	112.3
70-79	170.8	158.0	151.5	147.1	135.9	126.3	105.7
80+	152.2	138.9	134.2	131.1	121.3	110.1	97.5
0-19	108.8	104.5	111.3	120.9	96.5	110.9	85.0
20-44	175.5	157.0	148.9	138.4	130.7	118.2	98.1
45-64	173.8	157.6	149.6	142.9	133.7	119.2	102.5
65-74	175.7	164.1	154.6	148.8	141.5	127.4	109.7
75+	162.0	148.1	141.6	137.5	125.1	118.6	100.8
Male	156.6	142.1	131.8	126.4	118.2	105.0	88.4
Female	188.4	173.5	168.0	160.7	150.4	139.4	120.5
White	151.8	140.2	133.7	126.1	118.2	107.5	88.8
African American	199.5	180.1	171.0	166.0	155.3	141.3	124.6
Native American	124.7	122.0	105.2	104.5	102.2	90.6	76.1
Asian	155.0	146.1	132.7	128.5	118.6	103.6	87.8
Hispanic	176.8	164.0	151.6	141.7	131.0	113.2	96.1
Non-Hispanic	173.8	157.2	149.8	143.8	134.9	122.8	104.7
Diabetes	189.6	172.5	162.1	156.0	144.1	132.5	111.2
Hypertension	169.2	155.6	146.8	141.3	131.1	117.5	103.1
Glomerulonephritis	149.4	134.8	129.0	118.1	112.9	100.4	85.4
Cystic kidney	138.0	125.2	112.3	101.5	103.4	84.6	77.7
Other urologic	158.4	154.3	142.6	135.5	132.1	119.3	98.9
Other cause	156.1	142.2	146.2	138.1	134.9	120.9	101.3
Unknown cause	161.7	141.1	130.3	126.5	110.8	105.3	87.8
Missing disease	80.5	68.4	40.9	59.8	.	106.6	102.4
All	171.9	157.0	148.9	142.5	133.2	120.9	103.2

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



Table L.4

## Catheter intervention events: prevalent hemodialysis patients (CPM & USRDS data)

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

	1999				2000				2001				2002			
	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC
0-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-19	.	.	.	.	*	.	.	.	.	.	.	.	*	.	.	.
20-29	*	.	.	.	13	23.1	46.2	0.0	14	7.1	42.9	0.0	15	20.0	6.7	6.7
30-39	40	12.5	35.0	0.0	48	20.8	20.8	6.3	51	7.8	23.5	0.0	38	26.3	21.1	0.0
40-49	55	20.0	21.8	1.8	73	11.0	23.3	4.1	82	19.5	25.6	3.7	72	13.9	26.4	6.9
50-59	80	12.5	22.5	3.8	93	20.4	32.3	5.4	108	15.7	25.0	4.6	118	19.5	22.0	2.5
60-64	43	16.3	20.9	2.3	56	14.3	21.4	5.4	73	15.1	15.1	2.7	70	10.0	12.9	4.3
65-69	59	13.6	20.3	3.4	77	7.8	14.3	3.9	67	14.9	22.4	3.0	84	19.0	19.0	1.2
70-79	147	8.2	15.0	1.4	153	12.4	23.5	1.3	177	14.1	18.1	2.8	174	12.6	19.5	4.6
80+	67	9.0	19.4	0.0	79	17.7	22.8	2.5	93	12.9	16.1	3.2	115	13.9	20.0	1.7
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0-19	.	.	.	.	*	.	.	.	.	.	.	.	*	.	.	.
20-44	67	17.9	28.4	1.5	92	20.7	22.8	3.3	105	12.4	30.5	1.9	89	20.2	22.5	1.1
45-64	153	13.7	22.2	2.6	191	15.2	28.3	5.8	223	16.1	20.2	3.6	224	15.6	19.2	4.9
65-74	132	9.1	16.7	2.3	152	8.6	19.1	3.3	164	15.2	20.1	3.0	171	15.2	21.1	3.5
75+	141	9.9	17.7	0.7	157	16.6	22.9	1.3	173	12.7	16.8	2.9	202	13.9	18.3	2.5
Male	214	11.2	21.0	1.4	264	16.7	19.3	4.2	266	16.2	18.0	2.6	278	12.2	18.0	1.4
Female	279	12.5	19.7	2.2	331	13.0	26.9	3.0	399	13.3	22.8	3.3	410	17.8	21.2	4.6
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
White	261	11.9	21.5	1.5	314	11.8	21.0	2.2	372	15.1	21.0	2.2	380	13.9	18.9	3.4
African American	205	12.2	19.5	2.4	255	17.6	27.1	5.5	266	13.5	20.3	4.1	282	16.7	21.3	3.2
Native American	11	9.1	36.4	0.0	*	.	.	.	10	20.0	30.0	0.0	13	30.8	23.1	7.7
Asian	10	.	0.0	0.0	14	14.3	14.3	0.0	16	12.5	25.0	6.3	10	30.0	20.0	0.0
Other/unknown	*	.	.	.	*	.	.	.	*	.	.	.	*	.	.	.
Hispanic	51	17.6	25.5	2.0	60	13.3	31.7	1.7	65	12.3	30.8	3.1	54	16.7	18.5	5.6
Non-Hispanic	373	11.3	19.8	1.9	477	14.7	22.0	3.6	563	14.6	19.2	2.8	613	15.7	20.2	3.3
Diabetes	199	10.1	17.6	1.5	239	13.8	23.0	4.2	266	12.4	20.7	3.8	269	17.8	23.0	3.0
Hypertension	136	11.0	19.1	1.5	158	13.3	25.3	3.2	185	16.8	23.8	3.2	199	12.6	14.6	3.5
Glomerulonephritis	62	9.7	17.7	1.6	70	17.1	20.0	4.3	88	14.8	18.2	1.1	84	9.5	14.3	1.2
Cystic kidney	13	15.4	23.1	7.7	15	20.0	40.0	0.0	16	31.3	31.3	6.3	15	33.3	60.0	0.0
Other urologic	17	11.8	23.5	11.8	31	12.9	19.4	0.0	21	14.3	23.8	9.5	28	17.9	17.9	7.1
Other cause	49	22.4	30.6	0.0	59	18.6	23.7	3.4	66	12.1	15.2	0.0	66	13.6	18.2	4.5
Unknown cause	17	17.6	35.3	0.0	23	13.0	21.7	4.3	23	13.0	17.4	0.0	27	25.9	29.6	7.4
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
All	493	12.0	20.3	1.8	595	14.6	23.5	3.5	665	14.4	20.9	3.0	688	15.6	19.9	3.3

RM: removal; RP: replacement; DC: declot.

Data represent prevalent hemodialysis patients who are in the USRDS & CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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



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Table L.4 (continued)

**Catheter intervention events: prevalent hemodialysis patients (CPM & USRDS data)***period prevalent patients, by age, gender, race, ethnicity, & primary diagnosis*

	2003				2004				2005			
	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC
0-4	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.
15-19	*	.	.	.	*	.	.	.	*	.	.	.
20-29	16	18.8	6.3	6.3	24	16.7	29.2	0.0	20	10.0	35.0	0.0
30-39	42	16.7	19.0	2.4	50	6.0	24.0	2.0	34	29.4	23.5	0.0
40-49	85	15.3	28.2	2.4	96	19.8	27.1	0.0	88	15.9	29.5	4.5
50-59	123	13.8	14.6	3.3	147	11.6	22.4	2.0	134	11.9	26.1	2.2
60-64	52	19.2	19.2	9.6	79	19.0	27.8	5.1	78	11.5	30.8	2.6
65-69	77	14.3	22.1	2.6	90	15.6	28.9	2.2	99	13.1	21.2	3.0
70-79	202	14.4	17.3	1.0	198	13.6	26.3	2.5	167	11.4	19.8	4.8
80+	96	15.6	17.7	2.1	124	9.7	26.6	0.0	127	12.6	18.1	2.4
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
0-19	*	.	.	.	*	.	.	.	*	.	.	.
20-44	94	17.0	21.3	3.2	108	14.8	26.9	0.9	92	18.5	31.5	1.1
45-64	224	15.2	18.3	4.5	288	14.6	24.7	2.4	262	13.0	27.1	3.1
65-74	189	15.3	19.0	1.6	172	14.0	27.3	2.3	182	13.2	19.8	3.8
75+	186	14.0	17.7	1.6	240	12.1	26.7	1.3	211	11.4	19.4	3.3
Male	287	14.6	19.2	2.4	321	15.3	23.4	1.6	307	16.9	22.5	3.3
Female	407	15.5	18.4	2.9	490	12.9	28.2	2.0	442	10.6	24.4	2.9
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
White	372	16.7	18.5	1.6	458	14.2	25.1	2.2	413	13.8	24.0	2.9
African American	292	13.0	18.5	4.5	323	13.6	28.5	1.5	300	12.7	24.0	3.3
Native American	10	10.0	10.0	0.0	*	.	.	.	12	8.3	16.7	8.3
Asian	20	20.0	30.0	0.0	15	13.3	26.7	0.0	17	17.6	5.9	0.0
Other/unknown	.	.	.	.	*	.	.	.	*	.	.	.
Hispanic	73	16.4	19.2	4.1	89	14.6	27.0	1.1	65	15.4	36.9	3.1
Non-Hispanic	592	15.4	18.4	2.5	706	13.5	25.9	2.0	666	12.9	22.1	3.0
Diabetes	303	15.2	16.8	3.0	352	15.6	29.8	2.3	352	15.6	25.5	3.4
Hypertension	176	14.8	19.9	2.8	220	11.4	21.8	0.9	220	11.4	22.1	2.6
Glomerulonephritis	84	16.7	17.9	2.4	98	11.2	24.5	1.0	98	11.2	23.9	1.4
Cystic kidney	19	10.5	21.1	5.3	22	18.2	36.4	9.1	22	18.2	0.0	18.2
Other urologic	16	18.8	31.3	0.0	32	15.6	15.6	6.3	32	15.6	15.4	0.0
Other cause	70	11.4	18.6	2.9	67	14.9	31.3	0.0	67	14.9	26.6	3.1
Unknown cause	26	23.1	26.9	0.0	20	10.0	10.0	0.0	20	10.0	20.8	4.2
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.
All	694	15.1	18.7	2.7	811	13.8	26.3	1.8	749	13.2	23.6	3.1

RM: removal; RP: replacement; DC: declot.

Data represent prevalent hemodialysis patients who are in the USRDS &amp; CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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



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Table L.5

## Arteriovenous fistula intervention events: prevalent hemodialysis patients (CPM & USRDS data)

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

	1999				2000				2001				2002			
	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC
0-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-19	.	.	.	.	*	.	.	.	*	.	.	.	.	.	.	.
20-29	51	2.0	0.0	3.9	43	0.0	2.3	4.7	52	0.0	0.0	3.8	48	0.0	2.1	2.1
30-39	110	1.8	0.9	0.9	95	0.0	0.0	2.1	110	0.0	0.9	4.5	136	0.7	2.2	7.4
40-49	190	3.7	3.2	2.1	206	0.5	0.0	4.4	198	0.0	1.0	4.0	208	0.0	2.4	3.4
50-59	210	0.5	1.0	4.3	212	0.0	1.9	3.8	238	0.4	1.7	2.9	276	1.1	1.4	5.4
60-64	103	0.0	1.0	2.9	103	1.0	1.9	0.0	124	0.0	0.0	2.4	143	0.7	0.7	4.2
65-69	150	0.0	0.7	2.0	124	0.0	2.4	1.6	139	0.0	0.7	2.9	151	0.7	0.7	4.6
70-79	217	0.5	1.4	1.4	232	0.4	0.9	2.6	254	2.0	1.6	4.3	278	0.0	0.4	2.5
80+	68	0.0	1.5	0.0	85	0.0	1.2	2.4	111	0.0	0.9	1.8	114	0.9	0.0	7.9
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0-19	.	.	.	.	*	.	.	.	*	.	.	.	.	.	.	.
20-44	246	3.3	2.0	2.4	238	0.4	0.4	3.4	260	0.0	0.8	4.2	277	0.4	2.9	5.1
45-64	418	0.7	1.2	3.1	421	0.2	1.4	3.1	462	0.2	1.1	3.0	534	0.7	1.1	4.7
65-74	273	0.4	0.4	1.5	253	0.0	1.6	2.0	274	1.5	1.1	4.4	288	0.3	0.3	4.2
75+	162	0.0	2.5	1.2	188	0.5	1.1	2.7	230	0.4	1.3	2.2	255	0.4	0.4	4.3
Male	799	1.3	1.4	2.6	745	0.1	0.9	2.6	832	0.7	1.1	3.6	944	0.3	1.1	3.8
Female	300	0.7	1.3	1.3	357	0.6	1.7	3.4	398	0.3	1.0	3.0	410	1.0	1.5	6.3
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
White	610	0.8	1.6	2.0	636	0.5	1.9	2.4	691	0.6	1.0	2.5	770	0.5	1.0	3.5
African American	399	1.5	1.3	3.3	385	0.0	0.0	2.9	448	0.7	1.3	4.7	496	0.4	1.6	5.8
Native American	40	0.0	0.0	0.0	35	0.0	2.9	2.9	36	0.0	0.0	5.6	32	0.0	0.0	9.4
Asian	41	2.4	0.0	0.0	40	0.0	0.0	7.5	44	0.0	0.0	4.5	47	2.1	0.0	6.4
Other/unknown	*	.	.	.	*	.	.	.	11	0.0	0.0	0.0	*	.	.	.
Hispanic	128	0.8	0.8	1.6	130	0.8	1.5	2.3	141	0.7	0.0	6.4	180	0.6	0.6	2.8
Non-Hispanic	795	1.0	1.4	2.3	883	0.2	1.0	2.7	1015	0.6	1.2	3.1	1108	0.5	1.4	5.1
Diabetes	346	0.9	0.3	3.8	318	0.0	0.6	3.1	383	0.5	1.0	3.9	484	1.0	1.0	5.6
Hypertension	313	1.0	1.6	1.9	321	0.6	0.9	2.8	374	1.1	1.3	3.7	405	0.5	1.2	4.4
Glomerulonephritis	224	0.9	1.8	1.8	227	0.4	2.6	2.6	228	0.0	1.3	2.6	244	0.0	2.0	2.9
Cystic kidney	44	2.3	0.0	2.3	44	0.0	2.3	0.0	58	0.0	0.0	3.4	36	0.0	0.0	0.0
Other urologic	38	2.6	5.3	0.0	47	0.0	0.0	4.3	38	0.0	0.0	2.6	39	0.0	0.0	2.6
Other cause	95	2.1	2.1	1.1	92	0.0	1.1	3.3	110	0.9	0.9	3.6	97	0.0	1.0	4.1
Unknown cause	39	0.0	2.6	0.0	53	0.0	0.0	1.9	39	0.0	0.0	0.0	49	0.0	0.0	10.2
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
All	1,099	1.1	1.4	2.3	1,102	0.3	1.2	2.8	1,230	0.6	1.1	3.4	1,354	0.5	1.2	4.6

RM: removal; RP: replacement; DC: declot.

Data represent prevalent hemodialysis patients who are in the USRDS & CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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



Table L.5 (continued)

**Arteriovenous fistula intervention events: prevalent hemodialysis patients (CPM & USRDS data)**

period prevalent patients, by age, gender, race, ethnicity, &amp; primary diagnosis

	2003				2004				2005			
	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC
0-4	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.
15-19	*	.	.	.	*	.	.	.	.	.	.	.
20-29	52	1.9	0.0	5.8	54	0.0	0.0	5.6	51	0.0	0.0	3.9
30-39	133	0.8	0.8	3.8	134	0.7	0.7	3.7	142	0.7	0.7	2.1
40-49	243	0.8	2.1	4.9	262	0.4	1.5	3.8	244	0.8	1.2	3.3
50-59	339	1.2	2.1	4.7	360	0.6	1.1	3.3	379	1.1	0.3	4.0
60-64	142	0.0	0.0	1.4	138	0.7	0.0	2.9	148	0.0	1.4	4.1
65-69	158	1.3	0.0	1.9	173	0.0	0.6	5.2	182	0.0	0.0	3.8
70-79	274	1.1	1.1	4.4	345	1.2	1.7	2.0	382	1.0	1.0	3.4
80+	154	0.6	0.0	3.2	180	1.1	0.0	6.7	221	0.9	0.9	1.8
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
0-19	*	.	.	.	*	.	.	.	.	.	.	.
20-44	300	1.0	0.7	5.0	296	0.3	0.3	4.7	309	0.3	0.6	2.9
45-64	609	0.8	1.8	3.8	652	0.6	1.2	3.1	655	0.9	0.8	3.8
65-74	305	1.3	0.3	3.0	360	0.6	0.8	3.9	385	0.5	0.5	3.6
75+	281	0.7	0.7	3.9	338	1.2	1.2	4.1	400	1.0	1.0	2.5
Male	1033	0.8	0.6	3.4	1074	0.6	0.9	3.4	1134	0.5	0.8	2.9
Female	464	1.3	2.2	5.0	576	0.9	1.0	4.5	615	1.1	0.7	4.1
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
White	883	1.2	0.7	3.1	984	0.7	1.0	3.2	978	0.7	0.7	2.8
African American	503	0.4	2.0	4.8	517	0.4	0.8	4.8	628	0.8	1.0	4.1
Native American	39	2.6	0.0	10.3	48	0.0	0.0	2.1	50	0.0	0.0	4.0
Asian	55	0.0	0.0	3.6	84	1.2	2.4	4.8	72	0.0	0.0	4.2
Other/unknown	17	0.0	0.0	5.9	17	5.9	0.0	5.9	21	4.8	0.0	0.0
Hispanic	234	0.4	0.0	4.3	211	0.9	0.9	4.3	217	0.9	1.4	2.8
Non-Hispanic	1210	1.0	1.1	3.9	1401	0.6	0.9	3.6	1496	0.7	0.7	3.4
Diabetes	520	0.8	0.2	4.6	598	0.7	0.7	3.3	658	0.8	0.6	3.5
Hypertension	461	0.9	2.2	4.1	475	1.1	1.3	4.6	525	1.0	1.1	1.9
Glomerulonephritis	256	0.8	1.2	3.1	254	0.0	1.2	2.4	261	0.8	0.8	3.8
Cystic kidney	47	0.0	0.0	2.1	70	1.4	1.4	2.9	59	1.7	0.0	6.8
Other urologic	44	0.0	2.3	2.3	53	1.9	0.0	3.8	43	0.0	0.0	2.3
Other cause	112	2.7	0.9	4.5	133	0.0	1.5	6.0	143	0.0	0.7	4.9
Unknown cause	57	1.8	0.0	0.0	67	0.0	0.0	3.0	59	0.0	0.0	5.1
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.
All	1,497	0.9	1.1	3.9	1,650	0.7	1.0	3.8	1,749	0.7	0.7	3.3

RM: removal; RP: replacement; DC: declot.

Data represent prevalent hemodialysis patients who are in the USRDS &amp; CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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





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Table L.6

## Graft intervention events: prevalent hemodialysis patients (CPM & USRDS data)

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

	1999				2000				2001				2002			
	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC
0-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-19	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.
20-29	48	0.0	2.1	6.3	58	3.4	3.4	13.8	31	0.0	0.0	9.7	27	0.0	0.0	18.5
30-39	137	0.7	2.2	7.3	122	2.5	4.9	4.1	119	2.5	3.4	10.1	119	0.8	0.8	20.2
40-49	294	1.4	3.7	5.4	263	3.4	1.9	6.8	269	2.2	2.2	11.9	226	1.8	1.8	11.5
50-59	408	0.2	2.9	5.4	389	1.3	2.8	7.7	391	1.3	2.3	8.7	365	1.9	2.5	8.8
60-64	235	1.7	1.3	6.4	270	2.6	1.1	5.9	238	2.1	2.1	9.2	226	0.4	1.3	12.8
65-69	302	0.3	2.6	5.0	302	0.7	2.6	10.3	286	0.7	2.8	13.3	292	0.7	2.4	13.7
70-79	601	1.0	1.7	6.2	567	1.2	0.9	9.0	550	1.6	2.4	9.3	525	0.8	1.1	12.6
80+	184	1.1	1.6	6.5	212	0.0	2.4	11.3	207	1.4	1.9	10.6	218	1.4	0.5	13.8
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0-19	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.
20-44	307	1.3	2.9	6.5	287	3.1	3.5	6.3	255	2.0	2.4	9.8	250	1.2	0.8	16.8
45-64	815	0.7	2.6	5.6	815	2.1	2.1	7.2	793	1.8	2.3	9.8	713	1.4	2.1	10.4
65-74	656	0.8	2.0	5.6	628	0.8	1.6	11.0	579	1.6	2.8	10.4	572	0.5	2.1	13.8
75+	431	0.9	1.9	6.3	453	0.9	1.8	8.2	464	1.1	1.9	11.0	463	1.3	0.4	12.3
Male	1,025	1.0	2.4	5.6	1,017	1.5	2.6	7.8	938	1.9	2.2	10.4	902	1.4	1.3	12.4
Female	1,184	0.8	2.2	6.2	1,166	1.7	1.6	8.9	1,154	1.3	2.4	10.1	1,096	0.8	1.7	12.8
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
White	1,035	0.9	2.3	6.1	1,062	1.1	1.9	8.1	1,016	1.8	2.4	9.5	959	1.1	1.0	13.5
African American	1,033	0.8	2.4	6.3	993	2.1	2.3	8.7	963	1.6	2.2	11.4	925	0.9	1.9	11.6
Native American	46	2.2	0.0	4.3	37	2.7	0.0	10.8	33	0.0	3.0	0.0	26	7.7	0.0	0.0
Asian	75	0.0	1.3	0.0	80	0.0	1.3	7.5	63	0.0	4.8	12.7	74	1.4	4.1	17.6
Other/unknown	20	5.0	5.0	0.0	11	9.1	9.1	9.1	17	0.0	0.0	0.0	14	0.0	0.0	21.4
Hispanic	241	1.2	4.6	5.8	220	1.4	3.2	6.8	246	2.4	2.4	10.6	263	1.1	1.9	13.3
Non-Hispanic	1,614	0.5	1.9	5.7	1,761	1.3	2.0	8.7	1,707	1.4	2.3	10.5	1,648	1.1	1.3	12.8
Diabetes	897	0.3	2.1	6.9	885	1.6	1.9	8.9	908	1.4	2.2	9.6	877	0.7	0.9	13.5
Hypertension	665	1.1	3.0	5.4	648	1.7	2.0	8.2	651	1.2	2.8	11.1	569	1.1	2.5	11.2
Glomerulonephritis	290	1.7	2.1	3.8	297	1.0	2.0	8.8	234	3.0	2.6	12.4	255	1.6	2.7	14.5
Cystic kidney	53	0.0	0.0	1.9	76	0.0	2.6	7.9	51	0.0	0.0	0.0	61	4.9	0.0	4.9
Other urologic	58	0.0	1.7	3.4	64	0.0	4.7	4.7	64	1.6	1.6	9.4	53	0.0	1.9	15.1
Other cause	166	1.8	2.4	9.0	150	3.3	1.3	5.3	119	2.5	1.7	11.8	122	1.6	0.0	9.8
Unknown cause	79	1.3	1.3	2.5	63	3.2	3.2	12.7	65	1.5	3.1	10.8	61	1.6	1.6	16.4
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
All	2,209	0.9	2.3	5.9	2,183	1.6	2.1	8.4	2,092	1.6	2.3	10.3	1,998	1.1	1.6	12.6

RM: removal; RP: replacement; DC: de clot.

Data represent prevalent hemodialysis patients who are in the USRDS & CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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

Table L.6 (continued)

**Graft intervention events: prevalent hemodialysis patients (CPM & USRDS data)***period prevalent patients, by age, gender, race, ethnicity, & primary diagnosis*

	2003				2004				2005			
	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC	# pts	% RM	%RP	%DC
0-4	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.
15-19	.	.	.	.	*	.	.	.	.	.	.	.
20-29	32	3.1	3.1	21.9	30	0.0	3.3	33.3	18	0.0	0.0	11.1
30-39	109	2.8	1.8	14.7	104	1.9	1.0	25.0	78	2.6	3.8	12.8
40-49	239	1.3	0.4	12.6	235	1.3	1.7	16.2	181	2.2	1.1	12.7
50-59	364	1.1	2.2	14.3	370	0.3	2.2	11.6	389	1.5	1.8	14.7
60-64	216	0.9	2.8	14.8	215	1.4	0.9	12.6	201	2.0	3.0	12.9
65-69	272	0.4	2.6	14.0	259	0.0	1.2	12.7	209	0.5	1.0	13.4
70-79	481	1.0	1.7	11.6	461	1.5	1.3	11.9	449	1.6	0.4	14.3
80+	219	1.8	2.3	13.7	236	3.8	2.1	16.9	203	0.5	2.0	15.3
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
0-19	.	.	.	.	*	.	.	.	.	.	.	.
20-44	238	2.5	1.7	18.5	220	0.9	2.7	24.5	164	2.4	1.8	15.2
45-64	722	1.0	1.9	12.9	734	1.0	1.4	12.3	703	1.7	2.1	13.2
65-74	520	0.8	2.1	12.3	509	0.8	1.4	12.8	453	1.1	0.7	13.9
75+	452	1.3	2.0	13.3	447	2.7	1.6	14.1	408	1.0	1.2	14.7
Male	892	1.1	2.0	14.2	848	1.4	1.3	15.3	789	1.3	1.5	14.6
Female	1,040	1.3	1.9	12.9	1,063	1.2	1.8	13.4	939	1.6	1.5	13.4
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
White	918	0.9	2.1	12.7	957	1.6	1.5	14.2	824	1.3	1.2	14.0
African American	885	1.7	1.9	14.8	853	1.1	1.8	14.7	778	1.4	1.7	14.7
Native American	40	0.0	0.0	10.0	30	0.0	0.0	6.7	39	5.1	5.1	7.7
Asian	67	0.0	3.0	11.9	63	1.6	1.6	12.7	69	0.0	0.0	10.1
Other/unknown	22	0.0	0.0	4.5	*	.	.	.	18	5.6	5.6	11.1
Hispanic	242	0.4	2.1	14.5	241	0.4	1.2	18.7	224	1.8	1.3	16.1
Non-Hispanic	1,637	1.3	1.9	13.5	1,624	1.4	1.6	13.5	1,473	1.3	1.6	13.7
Diabetes	835	1.0	1.7	14.1	899	1.4	0.8	14.6	793	1.6	1.5	14.8
Hypertension	587	1.5	2.4	12.6	551	0.7	0.9	14.9	512	1.0	1.4	12.9
Glomerulonephritis	216	0.9	0.5	13.4	213	1.9	4.7	10.8	187	1.6	1.1	14.4
Cystic kidney	49	0.0	4.1	16.3	52	0.0	5.8	5.8	42	0.0	4.8	16.7
Other urologic	53	3.8	3.8	7.5	46	0.0	4.3	15.2	47	2.1	0.0	12.8
Other cause	137	1.5	3.6	12.4	114	2.6	1.8	17.5	99	3.0	3.0	13.1
Unknown cause	55	0.0	0.0	20.0	36	2.8	2.8	16.7	48	0.0	0.0	10.4
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.
All	1,932	1.2	2.0	13.5	1,911	1.3	1.6	14.2	1,728	1.4	1.5	13.9

RM: removal; RP: replacement; DC: de clot.

Data represent prevalent hemodialysis patients who are in the USRDS &amp; CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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





Table L.7

## Hospitalizations for catheter complications: prevalent hemodialysis patients (CPM & USRDS data)

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

	1999				2000				2001				2002			
	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S
0-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-19	.	.	.	.	*	.	.	.	.	.	.	.	*	.	.	.
20-29	*	.	.	.	13	0.0	7.7	0.0	14	7.1	21.4	21.4	15	0.0	13.3	13.3
30-39	40	5.0	17.5	12.5	48	2.1	16.7	16.7	51	3.9	5.9	9.8	38	2.6	18.4	15.8
40-49	55	0.0	18.2	14.5	73	2.7	11.0	8.2	82	3.7	12.2	11.0	72	2.8	12.5	9.7
50-59	80	0.0	12.5	22.5	93	4.3	11.8	12.9	108	1.9	11.1	11.1	118	6.8	16.9	12.7
60-64	43	0.0	7.0	7.0	56	1.8	7.1	8.9	73	4.1	12.3	11.0	70	0.0	15.7	14.3
65-69	59	1.7	15.3	16.9	77	0.0	1.3	5.2	67	3.0	9.0	20.9	84	4.8	10.7	9.5
70-79	147	0.7	8.2	8.8	153	2.6	6.5	10.5	177	4.0	13.0	14.7	174	2.3	14.9	16.7
80+	67	6.0	11.9	20.9	79	2.5	8.9	12.7	93	2.2	12.9	18.3	115	1.7	12.2	16.5
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0-19	.	.	.	.	*	.	.	.	.	.	.	.	*	.	.	.
20-44	67	4.5	16.4	11.9	92	2.2	14.1	13.0	105	4.8	9.5	9.5	89	2.2	14.6	12.4
45-64	153	0.0	13.1	17.0	191	3.1	9.9	9.9	223	2.7	12.1	12.1	224	4.0	16.1	12.9
65-74	132	1.5	9.8	11.4	152	2.6	4.6	9.9	164	3.0	11.6	17.7	171	4.7	11.7	11.7
75+	141	2.8	11.3	15.6	157	1.3	7.0	9.6	173	3.5	12.7	16.2	202	1.0	14.4	17.8
Male	214	0.9	15.0	18.2	264	2.3	8.7	9.5	266	4.1	10.9	13.5	278	2.5	12.2	13.3
Female	279	2.5	10.0	11.5	331	2.4	8.2	10.9	399	2.8	12.3	14.5	410	3.4	15.6	14.4
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
White	261	1.5	12.3	13.8	314	2.5	7.3	9.2	372	3.5	12.1	13.2	380	1.8	13.9	14.5
African American	205	2.4	11.2	13.7	255	2.0	9.8	11.8	266	3.0	10.9	15.0	282	5.0	14.2	13.8
Native American	11	0.0	45.5	54.5	*	.	.	.	10	10.0	40.0	50.0	13	0.0	23.1	7.7
Asian	10	0.0	0.0	0.0	14	0.0	7.1	0.0	16	0.0	0.0	0.0	10	0.0	20.0	10.0
Other/unknown	*	.	.	.	*	.	.	.	*	.	.	.	*	.	.	.
Hispanic	51	0.0	13.7	17.6	60	3.3	11.7	11.7	65	3.1	20.0	21.5	54	1.9	18.5	14.8
Non-Hispanic	373	2.1	11.8	14.2	477	2.1	7.5	9.9	563	3.6	10.8	13.1	613	3.1	13.5	13.7
Diabetes	199	2.5	13.1	17.6	239	1.7	10.0	11.3	266	3.8	13.2	16.5	269	3.3	16.7	17.8
Hypertension	136	0.7	11.0	13.2	158	1.9	6.3	5.1	185	2.7	11.9	15.7	199	3.5	13.1	12.6
Glomerulonephritis	62	0.0	8.1	9.7	70	2.9	4.3	11.4	88	1.1	10.2	10.2	84	1.2	14.3	10.7
Cystic kidney	13	0.0	23.1	0.0	15	6.7	13.3	20.0	16	0.0	12.5	12.5	15	0.0	13.3	13.3
Other urologic	17	5.9	29.4	17.6	31	3.2	12.9	19.4	21	9.5	0.0	0.0	28	3.6	10.7	7.1
Other cause	49	2.0	8.2	10.2	59	5.1	8.5	10.2	66	4.5	9.1	10.6	66	1.5	10.6	10.6
Unknown cause	17	5.9	11.8	23.5	23	0.0	8.7	13.0	23	4.3	17.4	13.0	27	7.4	11.1	11.1
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
All	493	1.8	12.2	14.4	595	2.4	8.4	10.3	665	3.3	11.7	14.1	688	3.1	14.2	14.0

H: IP hospital stay with a diagnosis code of 996.1, "Mechanical complication of vascular device, implant, and graft."

I: IP hospital stay with a diagnosis of a device infection. S: IP hospital stay with a diagnosis of sepsis.

Data represent prevalent hemodialysis patients who are in the USRDS & CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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

Table L.7 (continued)

**Hospitalizations for catheter complications: prevalent hemodialysis patients (CPM & USRDS data)**

period prevalent patients, by age, gender, race, ethnicity, &amp; primary diagnosis

	2003				2004				2005			
	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S
0-4	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.
15-19	*	.	.	.	*	.	.	.	*	.	.	.
20-29	16	0.0	12.5	0.0	24	0.0	8.3	4.2	20	0.0	25.0	20.0
30-39	42	0.0	9.5	9.5	50	4.0	8.0	12.0	34	2.9	11.8	8.8
40-49	85	0.0	18.8	10.6	96	7.3	17.7	20.8	88	4.5	13.6	14.8
50-59	123	1.6	16.3	14.6	147	2.0	17.7	15.0	134	3.0	16.4	15.7
60-64	52	3.8	15.4	11.5	79	3.8	16.5	22.8	78	0.0	12.8	15.4
65-69	77	2.6	10.4	13.0	90	4.4	14.4	15.6	99	2.0	12.1	14.1
70-79	202	3.5	9.4	15.3	198	3.0	14.6	14.6	167	2.4	8.4	17.4
80+	96	1.0	13.5	13.5	124	1.6	10.5	13.7	127	1.6	9.4	15.0
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
0-19	*	.	.	.	*	.	.	.	*	.	.	.
20-44	94	0.0	11.7	6.4	108	6.5	11.1	12.0	92	3.3	14.1	12.0
45-64	224	1.8	17.4	13.8	288	2.8	17.4	18.8	262	2.3	15.3	16.0
65-74	189	3.7	9.5	13.8	172	4.1	11.6	14.0	182	2.2	10.4	17.0
75+	186	1.6	11.8	15.1	240	2.1	14.6	15.0	211	1.9	9.0	14.7
Male	287	1.7	14.3	14.3	321	3.1	14.6	15.9	307	2.6	12.7	16.6
Female	407	2.2	12.0	12.3	490	3.7	14.7	15.7	442	2.0	12.0	14.5
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
White	372	2.4	11.6	13.2	458	2.2	15.9	18.1	413	2.4	11.9	16.2
African American	292	1.0	15.4	13.4	323	5.6	13.6	13.9	300	2.0	12.0	13.7
Native American	10	10.0	0.0	0.0	*	.	.	.	12	0.0	8.3	8.3
Asian	20	5.0	10.0	15.0	15	0.0	13.3	0.0	17	0.0	23.5	23.5
Other/unknown	.	.	.	.	*	.	.	.	*	.	.	.
Hispanic	73	4.1	11.0	9.6	89	3.4	19.1	21.3	65	6.2	16.9	15.4
Non-Hispanic	592	1.9	12.8	13.9	706	3.1	13.5	14.6	666	1.8	12.0	15.2
Diabetes	303	3.0	14.9	17.2	352	4.0	15.9	18.2	352	2.2	10.4	13.4
Hypertension	176	2.8	13.1	11.9	220	2.7	11.8	13.6	220	2.1	12.8	17.4
Glomerulonephritis	84	0.0	8.3	8.3	98	3.1	19.4	14.3	98	4.2	15.5	16.9
Cystic kidney	19	0.0	10.5	10.5	22	9.1	9.1	18.2	22	0.0	18.2	18.2
Other urologic	16	0.0	6.3	12.5	32	3.1	15.6	15.6	32	7.7	23.1	19.2
Other cause	70	0.0	11.4	8.6	67	3.0	13.4	13.4	67	0.0	14.1	17.2
Unknown cause	26	0.0	15.4	3.8	20	0.0	10.0	10.0	20	0.0	8.3	12.5
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.
All	694	2.0	13.0	13.1	811	3.5	14.7	15.8	749	2.3	12.3	15.4

H: IP hospital stay with a diagnosis code of 996.1, "Mechanical complication of vascular device, implant, and graft."

I: IP hospital stay with a diagnosis of a device infection. S: IP hospital stay with a diagnosis of sepsis.

Data represent prevalent hemodialysis patients who are in the USRDS &amp; CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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





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Table L.8

## Hospitalizations for arteriovenous fistula complications: prevalent hemodialysis patients (CPM & USRDS data)

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

	1999				2000				2001				2002			
	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S
0-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-19	.	.	.	.	*	.	.	.	*	.	.	.	.	.	.	.
20-29	51	0.0	0.0	0.0	43	0.0	2.3	0.0	52	0.0	0.0	0.0	48	0.0	2.1	0.0
30-39	110	0.0	2.7	1.8	95	0.0	2.1	2.1	110	0.8	2.5	5.0	136	0.0	0.0	2.5
40-49	190	0.5	1.6	2.6	206	0.5	1.5	1.9	198	1.1	2.6	3.3	208	1.4	1.4	3.5
50-59	210	0.0	0.5	3.8	212	1.4	1.4	3.8	238	1.0	2.6	2.8	276	0.4	1.4	5.2
60-64	103	0.0	0.0	1.9	103	0.0	0.0	1.9	124	0.4	1.7	6.3	143	0.0	0.7	2.2
65-69	150	1.3	1.3	4.7	124	0.0	2.4	5.6	139	0.3	0.7	5.6	151	0.7	2.0	3.8
70-79	217	1.4	0.0	2.3	232	0.9	1.3	6.5	254	1.5	3.3	5.3	278	0.0	0.4	5.5
80+	68	0.0	1.5	7.4	85	0.0	0.0	5.9	111	1.0	3.4	5.3	114	1.8	0.9	7.3
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0-19	.	.	.	.	*	.	.	.	*	.	.	.	.	.	.	.
20-44	246	0.4	1.6	1.2	238	0.0	1.7	1.3	260	0.8	2.0	3.5	277	0.0	1.1	1.4
45-64	418	0.0	0.7	3.3	421	1.0	1.2	3.1	462	0.9	2.4	4.0	534	0.7	1.1	3.4
65-74	273	1.1	0.7	4.0	253	0.8	2.0	5.1	274	1.2	2.8	6.7	288	0.3	1.4	3.1
75+	162	1.2	0.6	3.7	188	0.0	0.5	7.4	230	0.9	2.4	3.7	255	0.8	0.4	5.9
Male	799	0.4	0.9	2.6	745	0.3	1.1	3.9	832	0.1	0.8	4.1	944	0.5	1.1	3.4
Female	300	1.0	1.0	4.3	357	1.1	2.0	3.9	398	1.0	3.0	5.0	410	0.5	1.0	3.4
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
White	610	0.5	1.0	2.6	636	0.3	0.6	3.6	691	0.4	1.3	4.2	770	0.5	0.4	4.2
African American	399	0.8	0.3	4.0	385	1.0	2.6	4.2	448	0.4	2.0	5.1	496	0.4	1.8	2.8
Native American	40	0.0	2.5	2.5	35	0.0	0.0	8.6	36	0.0	2.8	0.0	32	0.0	3.1	0.0
Asian	41	0.0	4.9	0.0	40	0.0	2.5	2.5	44	0.0	0.0	4.5	47	2.1	2.1	0.0
Other/unknown	*	.	.	.	*	.	.	.	11	0.0	0.0	0.0	9	.	.	*
Hispanic	128	0.8	0.8	3.9	130	0.8	0.8	6.9	141	0.7	1.4	5.7	180	1.1	0.6	2.2
Non-Hispanic	795	0.4	0.8	2.9	883	0.6	1.6	3.3	1,015	0.4	1.6	4.1	1,108	0.4	1.1	3.4
Diabetes	346	0.3	1.4	4.3	318	0.9	1.3	5.3	383	0.5	1.3	5.0	484	0.4	0.6	4.3
Hypertension	313	0.6	0.0	2.6	321	0.3	2.2	4.0	374	0.5	2.4	5.1	405	0.5	1.5	2.7
Glomerulonephritis	224	0.9	1.8	1.8	227	0.4	1.8	3.5	228	0.0	1.3	3.9	244	0.4	1.2	2.5
Cystic kidney	44	0.0	0.0	4.5	44	0.0	0.0	2.3	58	1.7	0.0	1.7	36	2.8	2.8	8.3
Other urologic	38	0.0	2.6	2.6	47	2.1	0.0	4.3	38	0.0	0.0	0.0	39	0.0	0.0	2.6
Other cause	95	0.0	0.0	4.2	92	0.0	0.0	1.1	110	0.0	0.9	5.5	97	1.0	1.0	2.1
Unknown cause	39	2.6	0.0	0.0	53	0.0	0.0	1.9	39	0.0	2.6	0.0	49	0.0	0.0	4.1
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
All	1,099	0.5	0.9	3.1	1,102	0.5	1.4	3.9	1,230	0.4	1.5	4.4	1,354	0.5	1.0	3.4

H: IP hospital stay with a diagnosis code of 996.1, "Mechanical complication of vascular device, implant, and graft."

I: IP hospital stay with a diagnosis of a device infection. S: IP hospital stay with a diagnosis of sepsis.

Data represent prevalent hemodialysis patients who are in the USRDS & CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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

Table L.8 (continued)

**Hospitalizations for arteriovenous fistula complications: prevalent hemodialysis patients (CPM & USRDS data)**

period prevalent patients, by age, gender, race, ethnicity, &amp; primary diagnosis

	2003				2004				2005			
	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S
0-4	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.
15-19	*	.	.	.	*	.	.	.	.	.	.	.
20-29	52	1.9	1.9	1.9	54	1.9	1.9	1.9	51	0.0	2.0	0.0
30-39	133	0.0	3.0	3.0	134	1.5	1.5	0.0	142	0.7	0.7	3.5
40-49	243	0.0	2.1	3.7	262	0.8	1.5	3.4	244	0.8	1.2	4.5
50-59	339	0.9	1.5	2.9	360	0.8	1.9	4.7	379	0.8	1.6	4.2
60-64	142	0.7	0.0	2.8	138	0.7	2.2	7.2	148	0.0	1.4	5.4
65-69	158	1.9	0.6	4.4	173	0.6	1.2	4.0	182	0.5	2.2	7.1
70-79	274	1.1	0.7	2.9	345	0.3	1.4	6.4	382	0.8	1.6	7.9
80+	154	0.0	0.6	3.9	180	0.0	1.1	4.4	221	0.0	1.8	5.9
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
0-19	*	.	.	.	*	.	.	.	.	.	.	.
20-44	300	0.3	2.3	2.7	296	1.4	1.0	1.0	309	0.6	1.0	3.2
45-64	609	0.7	1.3	3.3	652	0.8	2.1	5.2	655	0.6	1.5	4.6
65-74	305	2.0	0.7	3.3	360	0.3	1.1	5.8	385	0.5	1.8	7.3
75+	281	0.0	0.7	3.9	338	0.3	1.5	4.7	400	0.5	1.8	7.0
Male	1,033	0.6	0.8	3.4	1,074	0.8	1.8	4.6	1,134	0.6	1.9	5.8
Female	464	1.1	2.4	3.0	576	0.3	1.2	4.3	615	0.5	1.0	4.9
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
White	883	0.8	0.8	3.3	984	0.6	1.4	4.3	978	0.5	1.4	5.4
African American	503	0.4	2.2	3.2	517	1.0	1.4	4.8	628	0.6	1.8	4.9
Native American	39	2.6	0.0	7.7	48	0.0	2.1	4.2	50	0.0	0.0	10.0
Asian	55	1.8	1.8	0.0	84	0.0	3.6	6.0	72	1.4	2.8	5.6
Other/unknown	17	0.0	0.0	5.9	17	0.0	5.9	0.0	21	0.0	0.0	14.3
Hispanic	234	0.9	2.1	4.3	211	0.5	2.4	2.8	217	0.9	2.8	5.5
Non-Hispanic	1,210	0.7	1.2	3.1	1,401	0.7	1.5	4.8	1,496	0.5	1.3	5.5
Diabetes	520	0.6	1.2	4.6	598	0.0	1.5	5.7	658	0.5	1.8	7.4
Hypertension	461	0.2	1.5	2.6	475	1.1	1.3	5.1	525	0.6	1.5	4.6
Glomerulonephritis	256	2.0	0.8	2.3	254	1.2	1.2	3.5	261	1.1	1.5	4.2
Cystic kidney	47	2.1	0.0	6.4	70	1.4	2.9	2.9	59	1.7	0.0	5.1
Other urologic	44	0.0	2.3	0.0	53	0.0	1.9	1.9	43	0.0	2.3	7.0
Other cause	112	0.9	2.7	1.8	133	1.5	3.0	1.5	143	0.0	1.4	2.8
Unknown cause	57	0.0	0.0	3.5	67	0.0	1.5	3.0	59	0.0	0.0	3.4
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.
All	1,497	0.7	1.3	3.3	1,650	0.7	1.6	4.5	1,749	0.6	1.5	5.5

H: IP hospital stay with a diagnosis code of 996.1, "Mechanical complication of vascular device, implant, and graft."

I: IP hospital stay with a diagnosis of a device infection. S: IP hospital stay with a diagnosis of sepsis.

Data represent prevalent hemodialysis patients who are in the USRDS &amp; CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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





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Table L.9

## Hospitalizations for graft complications: prevalent hemodialysis patients (CPM & USRDS data)

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

	1999				2000				2001				2002			
	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S
0-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
15-19	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.
20-29	48	2.1	0.0	0.0	58	0.0	6.9	3.4	31	0.0	0.0	0.0	27	0.0	7.4	0.0
30-39	137	0.7	2.2	3.6	122	0.8	3.3	1.6	119	0.8	2.5	5.0	119	0.8	4.2	2.5
40-49	294	1.0	3.1	3.7	263	1.9	3.0	4.6	269	1.1	2.6	3.3	226	1.8	2.2	3.5
50-59	408	0.7	2.0	5.4	389	0.8	2.3	3.3	391	1.0	2.6	2.8	365	0.3	2.5	5.2
60-64	235	0.4	3.0	4.3	270	0.7	3.7	6.3	238	0.4	1.7	6.3	226	0.9	2.7	2.2
65-69	302	1.3	1.3	4.3	302	1.0	1.0	4.0	286	0.3	0.7	5.6	292	1.4	2.7	3.8
70-79	601	1.2	2.8	5.7	567	0.4	1.8	5.8	550	1.5	3.3	5.3	525	1.3	1.5	5.5
80+	184	0.0	2.2	8.7	212	1.4	0.5	1.9	207	1.0	3.4	5.3	218	2.3	0.9	7.3
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0-19	.	.	.	.	.	.	.	.	*	.	.	.	.	.	.	.
20-44	307	1.0	2.3	3.3	287	1.4	3.8	3.5	255	0.8	2.0	3.5	250	1.2	3.6	2.8
45-64	815	0.7	2.5	4.7	815	0.9	2.9	4.4	793	0.9	2.4	4.0	713	0.7	2.5	3.9
65-74	656	1.2	2.3	5.6	628	0.6	1.3	4.6	579	1.2	2.8	6.7	572	1.2	1.9	4.5
75+	431	0.7	2.3	6.0	453	0.9	1.3	4.4	464	0.9	2.4	3.7	463	1.9	1.5	6.5
Male	1,025	1.0	2.4	4.8	1,017	0.8	1.8	3.5	938	1.2	2.8	4.5	902	0.9	2.2	4.7
Female	1,184	0.8	2.3	5.2	1,166	0.9	2.7	5.1	1,154	0.8	2.2	4.8	1,096	1.5	2.3	4.5
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
White	1,035	0.9	2.3	5.0	1,062	0.9	1.6	4.4	1,016	1.3	2.6	4.1	959	1.5	2.4	4.7
African American	1,033	0.9	1.9	5.1	993	0.7	3.0	4.3	963	0.7	2.4	5.1	925	1.0	2.2	4.4
Native American	46	2.2	8.7	8.7	37	2.7	5.4	5.4	33	0.0	3.0	12.1	26	0.0	7.7	11.5
Asian	75	1.3	4.0	2.7	80	0.0	0.0	3.8	63	0.0	1.6	0.0	74	1.4	0.0	2.7
Other/unknown	20	0.0	5.0	0.0	11	9.1	0.0	0.0	17	0.0	0.0	11.8	14	0.0	0.0	0.0
Hispanic	241	0.8	3.3	4.6	220	1.8	0.9	2.7	246	2.0	2.8	6.1	263	1.5	1.9	4.6
Non-Hispanic	1,614	0.9	2.0	4.7	1,761	0.7	2.3	4.6	1,707	0.8	2.2	4.3	1,648	1.2	2.4	4.6
Diabetes	897	0.8	1.7	5.0	885	0.8	1.9	5.3	908	0.9	2.2	5.7	877	1.6	1.8	5.6
Hypertension	665	1.1	2.4	4.7	648	1.1	2.6	4.0	651	1.1	2.6	3.1	569	1.4	2.5	4.6
Glomerulonephritis	290	0.7	3.4	4.8	297	0.7	2.7	3.4	234	0.4	2.1	5.1	255	0.4	2.7	2.4
Cystic kidney	53	0.0	1.9	3.8	76	0.0	0.0	3.9	51	0.0	2.0	9.8	61	1.6	1.6	3.3
Other urologic	58	0.0	5.2	6.9	64	4.7	0.0	3.1	64	3.1	3.1	0.0	53	0.0	1.9	1.9
Other cause	166	2.4	4.2	7.2	150	0.0	4.0	3.3	119	0.8	3.4	5.0	122	0.0	3.3	3.3
Unknown cause	79	0.0	0.0	3.8	63	0.0	1.6	3.2	65	1.5	3.1	3.1	61	0.0	3.3	4.9
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
All	2,209	0.9	2.4	5.0	2,183	0.9	2.2	4.4	2,092	1.0	2.4	4.6	1,998	1.2	2.3	4.6

H: IP hospital stay with a diagnosis code of 996.1, "Mechanical complication of vascular device, implant, and graft."

I: IP hospital stay with a diagnosis of a device infection. S: IP hospital stay with a diagnosis of sepsis.

Data represent prevalent hemodialysis patients who are in the USRDS & CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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



Table L.9 (continued)

**Hospitalizations for graft complications: prevalent hemodialysis patients (CPM & USRDS data)***period prevalent patients, by age, gender, race, ethnicity, & primary diagnosis*

	2003				2004				2005			
	# pts	%H	% I	% S	# pts	%H	% I	% S	# pts	%H	% I	% S
0-4	.	.	.	.	.	.	.	.	.	.	.	.
5-9	.	.	.	.	.	.	.	.	.	.	.	.
10-14	.	.	.	.	.	.	.	.	.	.	.	.
15-19	.	.	.	.	*	.	.	.	.	.	.	.
20-29	32	0.0	3.1	3.1	30	0.0	10.0	3.3	18	0.0	5.6	5.6
30-39	109	0.9	5.5	6.4	104	0.0	3.8	1.9	78	1.3	6.4	6.4
40-49	239	0.0	2.1	3.3	235	0.4	3.0	4.7	181	0.6	4.4	7.7
50-59	364	0.3	1.1	2.7	370	0.5	3.2	5.4	389	0.5	2.3	4.4
60-64	216	0.5	3.7	4.6	215	0.5	3.7	5.6	201	2.0	3.5	3.5
65-69	272	0.7	4.4	7.4	259	1.2	1.2	4.6	209	0.5	2.4	5.3
70-79	481	1.0	1.7	4.8	461	0.4	2.8	4.6	449	0.7	3.1	6.0
80+	219	1.4	3.7	6.4	236	2.1	2.1	2.5	203	1.0	1.5	6.9
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
0-19	.	.	.	.	*	.	.	.	.	.	.	.
20-44	238	0.4	4.2	4.2	220	0.5	4.1	3.2	164	0.6	5.5	7.3
45-64	722	0.3	1.9	3.6	734	0.4	3.4	5.3	703	1.0	3.0	4.6
65-74	520	1.0	3.3	6.0	509	0.8	2.0	4.7	453	0.4	3.3	6.0
75+	452	1.1	2.4	5.8	447	1.3	2.5	3.4	408	1.0	1.7	6.1
Male	892	0.7	2.5	4.9	848	0.5	2.7	4.8	789	1.0	3.0	6.0
Female	1,040	0.7	2.9	4.7	1,063	0.9	3.0	4.1	939	0.6	3.0	5.2
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
White	918	0.4	2.3	5.2	957	0.8	2.4	4.4	824	0.8	3.4	5.3
African American	885	0.8	3.3	4.3	853	0.6	3.5	4.6	778	0.8	2.7	5.8
Native American	40	2.5	2.5	2.5	30	3.3	0.0	0.0	39	0.0	5.1	2.6
Asian	67	1.5	1.5	7.5	63	0.0	3.2	6.3	69	1.4	0.0	5.8
Other/unknown	22	0.0	0.0	4.5	*	.	.	.	18	0.0	5.6	11.1
Hispanic	242	0.4	1.7	5.4	241	0.0	1.2	2.9	224	1.3	2.7	7.1
Non-Hispanic	1,637	0.7	2.7	4.8	1,624	0.8	3.1	4.7	1,473	0.7	3.1	5.4
Diabetes	835	0.5	2.4	5.6	899	0.6	2.7	5.3	793	0.9	2.9	5.8
Hypertension	587	0.9	3.4	3.9	551	0.7	3.4	3.4	512	0.6	2.5	4.9
Glomerulonephritis	216	1.4	2.8	5.1	213	0.9	2.8	4.2	187	0.0	4.8	6.4
Cystic kidney	49	0.0	0.0	0.0	52	0.0	1.9	1.9	42	2.4	0.0	4.8
Other urologic	53	0.0	0.0	7.5	46	0.0	0.0	2.2	47	2.1	4.3	8.5
Other cause	137	0.0	2.9	2.2	114	2.6	4.4	4.4	99	1.0	5.1	5.1
Unknown cause	55	1.8	3.6	9.1	36	0.0	0.0	5.6	48	2.1	0.0	4.2
Missing disease	.	.	.	.	.	.	.	.	.	.	.	.
All	1,932	0.7	2.7	4.8	1,911	0.7	2.9	4.4	1,728	0.8	3.0	5.6

H: IP hospital stay with a diagnosis code of 996.1, "Mechanical complication of vascular device, implant, and graft."

I: IP hospital stay with a diagnosis of a device infection. S: IP hospital stay with a diagnosis of sepsis.

Data represent prevalent hemodialysis patients who are in the USRDS &amp; CPM databases.

Access represents the current access at the time of CPM data collection. Includes only patients for whom the access is known.

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





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Table L.10

## Hospitalizations for peritoneal dialysis complications: prevalent peritoneal dialysis patients (USRDS data)

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

	1999				2000				2001				2002			
	# pts	% I	% P	% S	# pts	% I	% P	% S	# pts	% I	% P	% S	# pts	% I	% P	% S
0-4	46	17.4	23.9	6.5	45	6.7	11.1	0.0	56	16.1	21.4	5.4	54	11.1	25.9	1.9
5-9	40	10.0	15.0	2.5	48	25.0	41.7	2.1	56	17.9	23.2	5.4	61	9.8	19.7	3.3
10-14	104	11.5	18.3	1.0	86	12.8	20.9	2.3	100	13.0	24.0	2.0	105	17.1	23.8	0.0
15-19	175	10.9	17.7	2.3	173	14.5	23.7	2.3	175	16.0	20.6	1.7	161	9.3	27.3	1.2
20-29	960	13.6	21.9	1.9	887	13.5	19.6	2.3	895	13.4	20.2	2.8	932	11.5	18.7	1.7
30-39	1,989	14.1	20.1	3.4	1,914	13.9	20.7	3.7	1,850	12.8	19.9	3.5	1,862	12.4	21.4	3.9
40-49	3,076	13.9	19.9	3.5	2,859	13.1	20.1	3.5	2,797	15.2	20.7	4.1	2,745	13.1	20.1	4.1
50-59	3,254	13.6	21.4	4.4	3,317	13.5	19.7	4.5	3,259	13.4	19.2	5.2	3,351	11.8	19.8	5.0
60-64	1,638	12.6	19.8	5.2	1,525	13.0	20.1	5.3	1,525	12.1	18.6	5.6	1,468	12.3	20.0	5.7
65-69	2,037	12.2	20.1	4.8	1,940	12.9	18.7	5.1	1,872	12.7	19.2	6.3	1,937	11.9	20.8	5.5
70-79	3,194	11.6	20.0	5.3	2,950	11.6	19.4	5.6	2,831	11.7	18.6	5.1	2,839	10.3	17.5	5.4
80+	736	13.3	21.1	6.3	620	13.3	18.7	5.9	725	10.1	17.7	6.3	730	10.4	18.7	7.7
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
0-19	365	11.8	18.4	2.5	352	14.5	23.9	2.0	387	15.5	22.0	2.8	381	11.8	24.9	1.3
20-44	4,361	14.2	20.3	3.2	4,154	13.6	20.5	3.3	4,029	13.9	20.6	3.5	4,033	12.8	20.7	3.3
45-64	6,556	13.3	20.7	4.3	6,348	13.3	19.8	4.4	6,297	13.4	19.3	5.1	6,325	12.0	19.7	5.1
65-74	3,971	11.9	19.9	4.9	3,722	11.9	19.0	5.4	3,543	12.2	18.7	5.7	3,573	11.3	19.4	5.3
75+	1,996	12.4	20.6	5.9	1,883	12.9	19.2	5.6	1,885	11.0	18.7	5.6	1,814	10.1	17.7	6.5
Male	8,680	12.5	19.4	4.2	8,214	12.2	18.5	4.2	8,095	11.9	18.1	4.5	8,204	11.1	18.7	4.3
Female	8,569	13.6	21.4	4.4	8,246	13.8	21.1	4.7	8,047	14.2	20.8	5.1	8,127	12.5	20.8	5.2
Unknown	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
White	11,438	11.9	18.6	4.3	10,885	12.1	18.3	4.4	10,603	11.5	17.5	4.8	10,781	10.8	18.1	4.8
African American	4,746	15.7	25.0	4.4	4,528	15.6	24.1	4.4	4,467	16.4	24.5	4.7	4,413	14.1	23.9	4.9
Native American	244	13.9	20.1	2.0	222	13.5	19.8	4.1	222	17.1	23.0	4.5	241	11.6	26.6	4.1
Asian	664	12.5	17.0	4.4	676	10.5	16.0	4.9	705	12.5	15.6	5.1	735	11.2	15.6	3.1
Other/unknown	157	13.4	21.0	6.4	149	13.4	16.8	4.7	145	19.3	21.4	7.6	161	16.1	24.8	6.2
Hispanic	1,859	15.0	20.5	3.9	1,894	14.1	20.0	4.9	2,016	14.4	19.7	5.2	1,967	13.1	20.3	4.9
Non-Hispanic	13,677	12.5	20.1	4.1	13,564	12.9	19.6	4.2	13,529	12.8	19.4	4.7	13,978	11.5	19.6	4.8
Diabetes	5,627	14.2	21.4	5.8	5,367	13.3	20.1	5.8	5,264	13.4	19.5	6.6	5,403	11.8	20.7	6.2
Hypertension	4,260	12.6	20.3	3.8	4,083	12.6	19.8	3.6	4,061	13.2	20.4	4.2	3,937	12.2	19.3	3.9
Glomerulonephritis	3,634	12.3	19.2	3.0	3,362	12.3	18.6	3.2	3,309	12.5	18.7	3.4	3,281	11.7	19.1	3.6
Cystic kidney	733	10.5	18.3	4.0	708	11.3	18.2	4.4	664	11.1	18.1	3.3	669	10.2	15.5	3.6
Other urologic	478	13.4	19.9	2.3	473	15.4	21.8	3.2	477	11.7	17.4	4.6	536	11.0	20.7	5.8
Other cause	1,863	12.5	20.4	4.2	1,849	14.7	21.2	5.0	1,761	14.0	20.2	4.0	1,864	12.9	21.4	5.2
Unknown cause	642	14.8	21.8	3.6	607	13.0	20.3	4.1	596	11.7	18.5	4.9	632	9.2	17.2	3.6
Missing disease	12	0.0	0.0	0.0	11	0.0	0.0	*	.	.	.	.	*	.	.	.
All	17,249	13.1	20.4	4.3	16,460	13.0	19.8	4.4	16,142	13.0	19.5	4.8	16,331	11.8	19.8	4.8

I: IP hospital stay with a diagnosis of a device infection. P: IP hospital stay with a diagnosis of peritonitis. S: IP hospital stay with a diagnosis of sepsis.  
 Not merged with CPM data.  
 Age is calculated as of January 1 of each calendar year.

Table L.10 (continued)

**Hospitalizations for peritoneal dialysis complications: prevalent peritoneal dialysis patients (USRDS data)**

period prevalent patients, by age, gender, race, ethnicity, &amp; primary diagnosis

	2003				2004				2005			
	# pts	% I	% P	% S	# pts	% I	% P	% S	# pts	% I	% P	% S
0-4	72	16.7	30.6	6.9	68	19.1	29.4	1.5	69	17.4	27.5	1.4
5-9	73	12.3	21.9	2.7	68	19.1	26.5	1.5	57	12.3	19.3	3.5
10-14	132	12.9	21.2	0.8	115	9.6	20.9	0.9	120	13.3	21.7	2.5
15-19	154	13.0	25.3	3.9	160	7.5	21.9	1.3	175	15.4	20.6	2.3
20-29	890	13.6	20.3	2.8	895	11.3	19.1	2.7	836	14.7	22.2	4.7
30-39	1,891	12.3	20.0	3.2	1,831	12.1	20.5	3.7	1,763	12.9	20.4	4.6
40-49	2,788	12.7	20.6	4.8	2,807	13.0	20.6	5.5	2,761	11.0	17.6	4.6
50-59	3,399	12.6	19.9	5.2	3,491	12.3	19.7	5.9	3,594	11.4	18.2	5.5
60-64	1,556	11.8	18.8	5.1	1,701	10.6	17.9	5.6	1,716	11.4	17.8	6.5
65-69	1,854	12.0	19.0	6.4	1,876	11.3	19.8	6.9	1,865	11.7	18.5	7.2
70-79	2,951	10.9	18.5	6.3	3,010	11.1	18.7	6.5	2,993	9.5	17.9	7.2
80+	863	9.6	18.0	4.1	918	10.7	17.4	6.4	945	11.1	18.3	7.8
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
0-19	431	13.5	24.4	3.2	411	11.9	23.6	1.2	421	14.7	21.9	2.4
20-44	3,983	12.9	20.2	3.6	4,010	12.3	20.5	3.9	3,871	12.5	19.7	4.6
45-64	6,541	12.3	19.8	5.1	6,715	12.0	19.3	5.8	6,799	11.4	18.0	5.6
65-74	3,547	12.2	18.6	6.4	3,629	11.4	19.4	6.6	3,583	10.7	18.0	7.1
75+	2,121	9.3	18.5	5.3	2,175	10.7	17.9	6.7	2,220	10.1	18.4	7.6
Male	8,410	11.1	18.8	4.9	8,596	11.3	18.4	5.3	8,647	11.1	18.2	5.7
Female	8,213	13.1	20.5	5.1	8,344	12.2	20.7	5.7	8,247	11.7	19.0	6.0
Unknown	.	.	.	.	.	.	.	.	.	.	.	.
White	10,967	11.2	18.2	4.9	11,189	11.1	18.1	5.6	11,218	11.1	17.6	5.9
African American	4,463	14.5	23.8	5.2	4,551	13.7	23.8	5.3	4,467	13.1	22.2	6.0
Native American	257	13.6	21.4	5.8	260	11.2	19.2	3.8	228	7.9	18.0	5.7
Asian	753	8.9	14.1	4.6	770	10.1	15.8	5.3	800	8.4	12.3	3.9
Other/unknown	183	12.6	21.3	5.5	170	11.2	17.1	6.5	181	9.9	17.1	6.1
Hispanic	2,110	13.1	21.0	5.6	2,122	13.4	20.6	5.8	2,110	12.5	19.1	7.2
Non-Hispanic	14,253	11.9	19.5	4.9	14,616	11.5	19.4	5.5	14,614	11.3	18.5	5.7
Diabetes	5,512	12.4	20.1	6.9	5,648	12.2	19.8	7.6	5,601	11.5	18.5	7.8
Hypertension	4,096	11.7	19.5	4.3	4,220	12.2	20.4	4.9	4,261	10.8	18.5	4.8
Glomerulonephritis	3,295	11.7	18.8	3.9	3,275	10.5	17.7	3.6	3,230	11.5	17.6	4.2
Cystic kidney	631	10.8	18.1	3.2	676	11.2	16.7	4.4	690	11.4	16.7	5.1
Other urologic	537	9.1	16.2	3.9	541	10.7	18.3	4.4	539	11.5	17.8	4.8
Other cause	1,924	13.8	21.7	4.4	1,929	12.9	21.8	5.0	1,921	12.7	21.3	5.6
Unknown cause	617	12.5	19.3	3.4	636	9.9	17.8	5.3	620	10.8	19.4	6.0
Missing disease	11	0.0	0.0	0.0	15	13.3	20.0	0.0	32	9.4	15.6	9.4
All	16,623	12.1	19.6	5.0	16,940	11.8	19.5	5.5	16,894	11.4	18.6	5.9

I: IP hospital stay with a diagnosis of a device infection. P: IP hospital stay with a diagnosis of peritonitis. S: IP hospital stay with a diagnosis of sepsis.

Not merged with CPM data.

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





Table L.11

## Catheter placements in hemodialysis patients, by ESRD vintage (USRDS data)

per 1,000 patient years, January 1 point prevalent patients, by age, gender, race, ethnicity, & primary diagnosis

	Number of patients	Less than 6 months	6 months to 1 year	1 to 2 years	2 to 5 years	5+ years
0-4	23	.	.	816	.	.
5-9	47	379	.	122	.	465
10-14	130	255	436	598	425	294
15-19	535	503	486	530	435	430
20-29	5,229	522	589	447	423	402
30-39	13,798	556	602	508	429	367
40-49	28,304	491	454	431	410	383
50-59	44,107	472	395	362	358	361
60-64	24,416	457	403	399	378	357
65-69	28,799	540	367	386	358	375
70-79	53,956	494	384	362	347	355
80+	29,380	473	376	347	346	329
0-19	735	441	479	525	459	412
20-44	30,917	524	564	482	423	381
45-64	84,937	471	401	381	372	364
65-74	56,767	517	373	374	360	370
75+	55,368	484	382	354	338	336
Male	123,516	455	360	336	327	330
Female	105,207	539	459	437	414	407
White	124,184	484	386	365	349	335
African American	89,883	526	448	425	399	396
Native American	3,690	383	349	260	293	315
Asian	8,549	366	321	309	305	321
Other/unknown	2,419	579	543	431	418	331
Hispanic	31,195	573	434	394	361	338
Non-Hispanic	194,203	479	401	382	368	372
Diabetes	99,105	521	433	404	393	405
Hypertension	67,462	446	360	356	347	358
Glomerulonephritis	25,224	414	387	337	316	335
Cystic kidney	5,571	331	337	338	314	319
Other urologic	5,868	461	424	393	346	370
Other cause	17,380	587	456	431	389	351
Unknown cause	7,719	500	363	348	326	328
Missing disease	396	748	431	351	374	166
All	228,725	493	406	383	367	365

Table L.12

**Arteriovenous fistula placements in hemodialysis patients, by ESRD vintage (USRDS data)***per 1,000 patient years, January 1 point prevalent patients, by age, gender, race, ethnicity, & primary diagnosis*

	Number of patients	Less than 6 months	6 months to 1 year	1 to 2 years	2 to 5 years	5+ years
0-4	23	.	.	0	.	.
5-9	47	0	.	122	.	0
10-14	130	64	273	0	212	98
15-19	535	298	162	126	123	118
20-29	5,229	347	179	127	105	99
30-39	13,798	311	179	125	89	90
40-49	28,304	306	161	107	93	89
50-59	44,107	273	152	105	80	72
60-64	24,416	278	159	95	77	67
65-69	28,799	286	126	103	72	64
70-79	53,956	314	134	86	68	67
80+	29,380	272	110	65	60	50
0-19	735	232	169	99	128	110
20-44	30,917	327	175	124	95	91
45-64	84,937	277	155	100	81	75
65-74	56,767	305	129	96	70	66
75+	55,368	287	121	74	64	58
Male	123,516	303	142	99	79	79
Female	105,207	280	138	89	72	68
White	124,184	300	136	92	78	75
African American	89,883	284	150	99	75	72
Native American	3,690	314	162	90	77	81
Asian	8,549	241	128	93	58	83
Other/unknown	2,419	259	147	77	60	72
Hispanic	31,195	286	140	94	75	71
Non-Hispanic	194,203	294	140	94	76	75
Diabetes	99,105	281	141	96	75	69
Hypertension	67,462	296	123	90	75	74
Glomerulonephritis	25,224	296	146	92	78	81
Cystic kidney	5,571	212	151	77	69	72
Other urologic	5,868	353	156	107	76	73
Other cause	17,380	354	188	106	87	81
Unknown cause	7,719	303	166	89	71	70
Missing disease	396	220	181	108	0	166
All	228,725	293	141	94	76	74





Table L.13

## Graft placements in hemodialysis patients, by ESRD vintage (USRDS data)

per 1,000 patient years, January 1 point prevalent patients, by age, gender, race, ethnicity, & primary diagnosis

	Number of patients	Less than 6 months	6 months to 1 year	1 to 2 years	2 to 5 years	5+ years
0-4	23	.	.	163	.	.
5-9	47	0	.	0	.	0
10-14	130	0	55	66	106	33
15-19	535	110	116	98	85	100
20-29	5,229	132	73	110	81	86
30-39	13,798	142	113	101	94	88
40-49	28,304	157	130	98	87	100
50-59	44,107	170	117	97	85	99
60-64	24,416	178	124	100	98	86
65-69	28,799	205	136	101	96	96
70-79	53,956	212	123	92	83	90
80+	29,380	196	121	78	73	83
0-19	735	81	84	89	83	86
20-44	30,917	144	113	104	89	91
45-64	84,937	171	122	98	89	96
65-74	56,767	211	131	98	90	95
75+	55,368	201	121	83	78	84
Male	123,516	155	102	76	76	83
Female	105,207	225	148	115	98	106
White	124,184	169	103	76	72	78
African American	89,883	229	165	127	108	108
Native American	3,690	106	97	76	63	77
Asian	8,549	159	95	73	77	86
Other/unknown	2,419	186	97	106	85	86
Hispanic	31,195	174	106	90	82	87
Non-Hispanic	194,203	189	126	95	87	95
Diabetes	99,105	191	131	102	92	102
Hypertension	67,462	190	116	91	87	96
Glomerulonephritis	25,224	140	89	79	71	88
Cystic kidney	5,571	138	109	91	55	79
Other urologic	5,868	207	120	95	85	81
Other cause	17,380	211	135	83	84	85
Unknown cause	7,719	154	125	66	80	74
Missing disease	396	140	97	67	115	0
All	228,725	187	123	94	87	93

on our website & CD

Vascular access placements in diabetic hemodialysis patients, per 1,000 patient years, by ESRD vintage (Table 13.a). Vascular access placements in non-diabetic hemodialysis patients, per 1,000 patient years, by ESRD vintage (Table 13.b).