

Supplementary Online Content

Brauer CA, Coca-Perraillon M, Cutler DM, Rosen AB. Incidence and Mortality of Hip Fractures in the United States. JAMA. 2009;302(14):1573-1579.

eTable 1. Baseline Characteristics of Patients

eTable 2. Age-Adjusted Comorbid Conditions (Percent)

eTable 3. Mortality Models

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Baseline Characteristics of Patients*

		Women																			
		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
N		2729 6	2787 7	2836 8	2888 3	2980 7	3066 2	3136 8	3128 0	3330 0	3329 1	3370 3	3306 3	3202 7	3153 1	3069 7	3024 7	2902 5	2899 2	2821 4	27414
Age																					
65-74	N	4914	4976	4948	4905	4886	4987	5020	4788	5066	4961	4843	4610	4359	4209	4011	3767	3798	3674	3758	3703
	%	18.0	17.9	17.4	17.0	16.4	16.3	16.0	15.3	15.2	14.9	14.4	13.9	13.6	13.4	13.1	12.5	13.1	12.7	13.3	13.5
75-84	N	1161 0	1191 7	1210 5	1239 8	1268 0	1291 1	1311 8	1307 0	1371 4	1367 7	1387 4	1359 4	1323 2	1263 8	1241 7	1239 4	1174 2	1192 1	1155 0	11089
	%	42.5	42.8	42.7	42.9	42.5	42.1	41.8	41.8	41.2	41.1	41.2	41.1	41.3	40.1	40.5	41.0	40.5	41.1	40.9	40.5
85+	N	1077 2	1098 4	1131 5	1158 0	1224 1	1276 4	1323 0	1342 2	1452 0	1465 3	1498 6	1485 9	1443 6	1468 4	1426 9	1408 6	1348 5	1339 7	1290 6	12622
	%	39.5	39.4	39.9	40.1	41.1	41.6	42.2	42.9	43.6	44.0	44.5	44.9	45.1	46.6	46.5	46.6	46.5	46.2	45.7	46.0
Race																					
Black	N	834	864	885	939	974	988	1016	1073	1102	1167	1139	1153	1116	1072	1056	1048	1057	985	952	909
	%	3.1	3.1	3.1	3.3	3.3	3.2	3.2	3.4	3.3	3.5	3.4	3.5	3.5	3.4	3.4	3.5	3.6	3.4	3.4	3.3
Other	N	535	473	521	516	565	605	604	580	820	765	804	807	900	815	753	835	748	793	830	823
	%	2.0	1.7	1.8	1.8	1.9	2.0	1.9	1.9	2.5	2.3	2.4	2.4	2.8	2.6	2.5	2.8	2.6	2.7	2.9	3.0
White	N	2592 7	2654 0	2696 2	2742 8	2826 8	2906 9	2974 8	2962 7	3137 8	3135 9	3176 0	3110 3	3001 1	2964 4	2888 8	2836 4	2722 0	2721 4	2643 2	25682
	%	95.0	95.2	95.0	95.0	94.8	94.8	94.8	94.7	94.2	94.2	94.2	94.1	93.7	94.0	94.1	93.8	93.8	93.9	93.7	93.7
Region																					
Midwest	N	7378	7336	7400	7387	7907	8086	8270	8170	8863	8940	9037	8898	8644	8449	8076	8177	7735	7808	7592	7433
	%	27.0	26.3	26.1	25.6	26.5	26.4	26.4	26.1	26.6	26.9	26.8	26.9	27.0	26.8	26.3	27.0	26.7	26.9	26.9	27.1
Northeast	N	6012	6163	6291	6510	6662	6745	7027	6985	7389	7145	7301	7073	6773	6543	6347	6066	5908	5684	5496	5193
	%	22.0	22.1	22.2	22.5	22.4	22.0	22.4	22.3	22.2	21.5	21.7	21.4	21.2	20.8	20.7	20.1	20.4	19.6	19.5	18.9
South	N	9630	1000	1040	1056	1089	1149	1170	1174	1264	1278	1295	1288	1258	1255	1234	1207	1161	1168	1151	11110
	%	35.3	35.9	36.7	36.6	37.5	37.3	37.5	38.0	38.4	38.5	39.0	39.3	39.8	40.2	39.9	40.0	40.3	40.8	40.5	40.5
West	N	4276	4371	4274	4426	4339	4335	4365	4384	4405	4419	4407	4206	4023	3986	3927	3932	3766	3815	3611	3678
	%	15.7	15.7	15.1	15.3	14.6	14.1	13.9	14.0	13.2	13.3	13.1	12.7	12.6	12.6	12.8	13.0	13.0	13.2	12.8	13.4
Discharge Destination																					
Home, self-care	N	1012 3	9426	8919	8262	7510	6696	6023	5321	5404	4921	4567	4214	3620	3143	2805	2651	2096	1752	1252	1241
	%	37.1	33.8	31.4	28.6	25.2	21.8	19.2	17.0	16.2	14.8	13.6	12.8	11.3	10.0	9.1	8.8	7.2	6.0	4.4	4.5
Intermediate Care Facility (ICF)	N	2548	2584	2593	2504	2551	2549	2429	2228	2341	2177	1966	1885	1935	1991	1921	1801	1288	954	427	337
	%	9.3	9.3	9.1	8.7	8.6	8.3	7.7	7.1	7.0	6.5	5.8	5.7	6.0	6.3	6.3	6.0	4.4	3.3	1.5	1.2
Other	N	4085	4653	4770	5222	5201	5329	5306	5308	4592	4260	3996	3630	3575	3769	3514	3553	3640	3339	3323	3135
	%	15.0	16.7	16.8	18.1	17.5	17.4	16.9	17.0	13.8	12.8	11.9	11.0	11.2	12.0	11.5	11.8	12.5	11.5	11.8	11.4
Other type of inpatient facility	N	1594	1952	2264	2639	3354	4074	4730	4942	5710	5900	6014	5975	5916	6022	6410	6538	7096	7561	7712	7718
	%	5.8	7.0	8.0	9.1	11.3	13.3	15.1	15.8	17.2	17.7	17.8	18.1	18.5	19.1	20.9	21.6	24.5	26.1	27.3	28.2
Skilled Nursing Facility (SNF)	N	8946	9262	9822	1025	1119	1201	1288	1348	1525	1603	1716	1735	1698	1660	1604	1570	1490	1538	1550	14983
	%	32.8	33.2	34.6	35.5	37.5	39.2	41.1	43.1	45.8	48.2	50.9	52.5	53.0	52.7	52.3	51.9	51.4	53.1	54.9	54.7
Length of stay	Days																				
Median		12.0	12.0	11.0	11.0	10.0	10.0	9.0	8.0	7.0	7.0	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

25 th percentile		9.0	8.0	8.0	8.0	7.0	7.0	7.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75 th percentile		16.0	16.0	15	15.0	14.0	14.0	13.0	12.0	11.0	9.0	9.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.0	7.0
Men																					
		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
N		7402	7641	7898	7931	8103	8566	8942	9061	9512	9673	9574	9790	9424	9659	9589	9453	9357	9464	9227	9406
Age																					
65-74	N	1807	1927	1824	1842	1935	1865	1906	2018	2051	2024	2059	2067	1937	1948	1797	1821	1869	1873	1788	1811
	%	24.4	25.2	23.1	23.2	23.9	21.8	21.3	22.3	21.6	20.9	21.5	21.1	20.6	20.2	18.7	19.3	20.0	19.8	19.4	19.3
75-84		3198	3254	3520	3551	3565	3845	4019	3929	4270	4257	4215	4207	4096	4200	4275	4106	4056	4195	4058	4167
		43.2	42.59	44.57	44.77	44	44.89	44.95	43.36	44.89	44.01	44.03	42.97	43.46	43.48	44.58	43.44	43.35	44.33	43.98	44.3
85+		2397	2460	2554	2538	2603	2856	3017	3114	3191	3392	3300	3516	3391	3511	3517	3526	3432	3396	3381	3428
		32.4	32.2	32.3	32.0	32.1	33.3	33.7	34.4	33.6	35.1	34.5	35.9	36.0	36.4	36.7	37.3	36.7	35.9	36.6	36.4
Race																					
Black	N	331	337	369	331	341	384	423	389	418	433	433	426	425	387	417	431	409	418	433	380
	%	4.5	4.4	4.7	4.2	4.2	4.5	4.7	4.3	4.4	4.5	4.5	4.4	4.5	4.0	4.4	4.6	4.4	4.4	4.7	4.0
Other		264	252	239	285	258	264	294	257	269	254	251	246	240	280	290	285	263	252	260	303
		3.6	3.3	3.0	3.6	3.2	3.1	3.3	2.8	2.8	2.6	2.6	2.5	2.6	2.9	3.0	3.0	2.8	2.7	2.8	3.2
White		6807	7052	7290	7315	7504	7918	8225	8415	8825	8986	8890	9118	8759	8992	8882	8737	8685	8794	8534	8723
		92.0	92.3	92.3	92.2	92.6	92.4	92.0	92.9	92.8	92.9	92.9	93.1	92.9	93.1	92.6	92.4	92.8	92.9	92.5	92.7
Region																					
Midwest	N	2007	2078	2144	2101	2195	2369	2466	2528	2623	2736	2657	2700	2616	2670	2705	2595	2575	2571	2587	2531
	%	27.1	27.2	27.2	26.5	27.1	27.7	27.6	27.9	27.6	28.3	27.8	27.6	27.8	27.6	28.2	27.5	27.5	27.2	28.0	26.9
Northeast		1560	1603	1712	1729	1713	1762	1877	1833	1956	1925	1946	1944	1867	1888	1868	1792	1786	1775	1652	1715
		21.1	21.0	21.7	21.8	21.1	20.6	21.0	20.2	20.6	19.9	20.3	19.9	19.8	19.6	19.5	19.0	19.1	18.8	17.9	18.2
South		2564	2664	2762	2752	2917	3056	3241	3293	3546	3592	3587	3661	3585	3644	3654	3675	3612	3704	3640	3722
		34.6	34.9	35.0	34.7	36.0	35.7	36.2	36.3	37.3	37.1	37.5	37.4	38.0	37.7	38.1	38.9	38.6	39.1	39.5	39.6
West		1271	1296	1280	1349	1278	1379	1358	1407	1387	1420	1384	1485	1356	1457	1362	1391	1384	1414	1348	1438
		17.2	17.0	16.2	17.0	15.8	16.1	15.2	15.5	14.6	14.7	14.5	15.2	14.4	15.1	14.2	14.7	14.8	14.9	14.6	15.3
Discharge Destination																					
Home, self-care	N	2729	2723	2568	2392	2193	1947	1862	1647	1699	1514	1402	1360	1176	1046	1080	910	761	695	520	493
	%	36.9	35.6	32.5	30.2	27.1	22.7	20.8	18.2	17.9	15.7	14.6	13.9	12.5	10.8	11.3	9.6	8.1	7.3	5.6	5.2
Intermediate Care Facility (ICF)		605	589	610	551	651	633	635	555	639	575	533	465	437	524	604	479	435	283	138	116
		8.2	7.7	7.7	7.0	8.0	7.4	7.1	6.1	6.7	5.9	5.6	4.8	4.6	5.4	6.3	5.1	4.7	3.0	1.5	1.2
Other		1509	1677	1631	1827	1791	1862	1897	1856	1740	1624	1502	1471	1389	1557	1523	1512	1511	1474	1407	1414
		20.4	22.0	20.7	23.0	22.1	21.7	21.2	20.5	18.3	16.8	15.7	15.0	14.7	16.1	15.9	16.0	16.2	15.6	15.3	15.0
Other type of inpatient facility		446	494	612	699	889	1044	1237	1392	1495	1602	1652	1706	1685	1786	1891	2035	2239	2497	2557	2760
		6.0	6.5	7.8	8.8	11.0	12.2	13.8	15.4	15.7	16.6	17.3	17.4	17.9	18.5	19.7	21.5	23.9	26.4	27.7	29.3
Skilled Nursing Facility (SNF)		2113	2158	2477	2462	2579	3080	3311	3611	3939	4358	4485	4788	4737	4746	4491	4517	4411	4515	4605	4623
		28.6	28.2	31.4	31.0	31.8	36.0	37.0	39.9	41.4	45.1	46.9	48.9	50.3	49.1	46.8	47.8	47.1	47.7	49.9	49.2
Length of stay	Days																				
Median		12.0	12.0	11.0	11.0	11.0	10.0	9.0	8.0	8.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
25 th percentile		9.0	8.0	8.0	8.0	7.0	7.0	7.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75 th percentile		18.0	17.0	16.0	17.0	16.0	15.0	14.0	13.0	11.0	10.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.0	8.0

* Baseline characteristics are number / percentages unless otherwise indicated. Data are based on a 20% sample of Medicare claims. Q1 and Q3 are the first and third quintile, respectively.

eTable 2. Age-Adjusted Comorbid Conditions (Percent)

	Men																			
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Acute/old myocardial infarction	3.5	5.1	4.8	4.8	4.3	4.6	5.6	7.1	7.9	8.6	9.8	9.8	10.8	12.2	12.4	12.6	13.5	14.0	12.9	12.5
Cancer and metastatic carcinoma	7.1	8.4	8.8	9.5	9.5	9.5	10.5	10.9	12.1	11.9	12.6	12.4	12.8	13.6	13.5	14.4	14.0	13.7	13.6	13.4
Cerebrovascular disease	11.9	13.6	14.3	13.5	14.6	14.8	15.9	16.6	17.7	19.5	20.5	18.9	15.2	14.2	14.1	13.7	13.6	13.0	12.1	12.1
Chronic pulmonary disease	21.2	23.8	24.6	26.5	25.9	26.9	28.3	30.9	30.4	31.9	32.6	32.7	33.1	32.6	33.1	33.5	34.7	34.6	34.0	34.5
Chronic renal failure	3.1	3.6	3.2	3.6	3.8	3.9	4.5	5.1	5.4	5.8	5.5	5.4	5.7	6.6	6.8	7.6	7.7	8.1	7.9	10.8
Congestive heart failure	11.4	13.9	14.9	15.1	16.2	17.0	18.9	21.8	21.6	23.1	24.0	24.4	26.0	25.9	26.4	26.5	27.8	28.4	29.4	28.9
Dementia	5.1	6.6	7.0	8.2	9.3	10.2	12.3	13.8	15.8	18.0	17.8	13.6	12.3	11.1	10.7	9.7	9.1	7.8	7.9	7.3
Diabetes with/without sequelae	8.8	9.5	10.4	11.0	11.9	12.1	13.3	13.5	15.2	16.1	17.0	16.9	18.5	19.7	19.9	21.3	22.3	23.5	24.8	26.6
Moderate/severe liver disease	0.1	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
Paralysis	2.7	3.1	3.5	3.5	4.0	3.7	4.3	4.8	5.3	5.6	6.1	5.0	2.5	1.9	1.7	1.8	1.8	1.8	1.6	1.6
Peripheral vascular disease	2.9	3.6	4.0	4.0	4.3	4.1	5.3	5.9	7.1	7.6	7.9	8.3	9.0	9.3	9.5	10.5	11.1	10.9	10.7	10.3
Rheumatologic disease	1.2	1.4	1.3	1.3	1.2	1.3	1.4	1.4	1.8	1.8	2.3	2.1	2.2	2.0	2.3	2.0	2.1	2.3	2.1	2.1
Ulcer disease	2.4	3.0	3.0	3.0	2.7	3.5	3.6	4.0	4.6	5.0	5.1	4.5	4.5	4.0	4.3	4.6	4.5	3.8	3.8	3.4
Chronic liver disease/cirrhosis	0.5	0.4	0.6	0.7	0.7	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.9	0.7	0.8	0.9	0.9	0.9	0.8	0.9
	Women																			
Acute/old myocardial infarction	2.9	3.6	3.6	3.7	3.4	3.7	4.0	4.8	5.7	6.1	6.5	6.8	7.5	7.9	8.5	8.8	9.4	9.1	9.2	9.2
Cancer and metastatic carcinoma	3.3	4.1	4.1	4.2	4.3	4.6	5.0	4.8	5.0	5.4	5.3	5.5	5.9	5.9	5.9	5.8	6.3	6.2	6.3	6.1
Cerebrovascular disease	9.6	11.2	10.7	10.8	11.0	11.2	12.0	12.7	13.7	14.7	14.9	14.7	12.2	11.5	11.4	11.8	11.9	11.1	10.9	10.4
Chronic pulmonary disease	8.3	9.7	10.8	11.6	12.7	13.6	14.8	16.7	17.8	18.7	19.5	20.3	20.3	20.8	21.6	21.9	23.1	23.9	23.9	24.8
Chronic renal failure	1.1	1.3	1.4	1.6	1.5	1.4	1.8	2.2	2.2	2.4	2.2	2.4	2.7	2.7	3.0	3.2	3.3	3.7	3.7	4.9
Congestive heart failure	10.9	12.9	13.6	14.1	14.9	16.3	18.0	19.4	20.2	21.6	22.4	22.2	23.2	23.2	23.2	23.3	24.1	25.1	25.4	25.1
Dementia	5.8	7.3	7.7	8.4	9.6	10.4	12.6	14.7	16.2	18.0	17.3	13.5	12.0	11.0	10.6	9.8	9.4	8.6	8.4	8.0
Diabetes with/without sequelae	9.1	10.1	10.0	10.6	10.7	11.3	12.1	12.6	13.5	13.9	14.6	15.2	16.1	16.3	16.9	17.6	19.2	19.1	19.8	20.5
Moderate/severe liver disease	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
Paralysis	1.7	2.1	2.2	2.0	2.2	2.5	2.7	3.0	3.4	3.5	3.8	3.4	1.9	1.6	1.6	1.5	1.5	1.3	1.3	1.2
Peripheral vascular disease	1.6	2.0	2.1	2.1	2.3	2.4	2.9	3.3	3.9	4.4	4.6	4.8	5.0	5.3	5.8	5.8	6.0	6.3	6.6	6.5
Rheumatologic disease	1.5	1.8	1.9	1.9	2.0	2.1	2.2	2.3	2.8	3.1	3.2	3.3	3.4	3.6	3.6	3.7	3.9	3.8	4.0	3.9
Ulcer disease	1.5	2.0	2.1	2.1	2.1	2.4	3.1	3.1	3.5	4.0	3.9	3.7	3.7	3.6	3.4	3.5	3.2	3.5	3.1	2.6
Chronic liver disease/cirrhosis	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.5

eTable 3. Mortality Models

	Men								
	30 Day			180 Day			360-Day		
	OR	95% CI		OR	95% CI		OR	95% CI	
Year									
1986	1			1			1		
1987	0.93	0.84	1.04	0.88	0.82	0.95	0.87	0.81	0.93
1988	0.90	0.81	1.00	0.84	0.78	0.91	0.82	0.77	0.88
1989	0.89	0.80	0.99	0.85	0.79	0.92	0.86	0.80	0.92
1990	0.89	0.80	0.98	0.82	0.76	0.88	0.81	0.75	0.86
1991	0.90	0.82	1.00	0.79	0.74	0.85	0.79	0.74	0.85
1992	0.85	0.77	0.94	0.79	0.73	0.85	0.79	0.74	0.85
1993	0.88	0.80	0.97	0.78	0.72	0.84	0.75	0.70	0.81
1994	0.78	0.70	0.86	0.72	0.67	0.77	0.70	0.65	0.74
1995	0.85	0.77	0.94	0.74	0.69	0.79	0.72	0.67	0.77
1996	0.87	0.79	0.96	0.72	0.67	0.77	0.70	0.66	0.75
1997	0.85	0.77	0.94	0.75	0.69	0.80	0.72	0.68	0.77
1998	0.85	0.77	0.93	0.78	0.73	0.84	0.77	0.72	0.82
1999	0.85	0.77	0.93	0.75	0.70	0.81	0.75	0.70	0.80
2000	0.86	0.78	0.95	0.74	0.69	0.79	0.75	0.70	0.80
2001	0.88	0.79	0.96	0.80	0.74	0.86	0.78	0.73	0.83
2002	0.88	0.80	0.97	0.79	0.73	0.84	0.76	0.71	0.81
2003	0.84	0.76	0.92	0.76	0.71	0.82	0.75	0.70	0.80
2004	0.79	0.72	0.87	0.72	0.67	0.78	0.70	0.66	0.75
2005	0.76	0.69	0.84	0.67	0.62	0.72	0.53	0.49	0.56
Age									
65-74	1			1			1		
75-84	1.57	1.49	1.64	1.64	1.59	1.70	1.63	1.59	1.68
>=84	2.70	2.58	2.83	2.90	2.80	2.99	2.93	2.85	3.02
Region									
Northeast	1			1			1		
Midwest	1.09	1.04	1.14	0.98	0.95	1.01	0.97	0.94	1.00
South	1.08	1.04	1.12	1.06	1.02	1.09	1.05	1.02	1.08
West	1.07	1.02	1.13	1.04	1.00	1.08	1.03	1.00	1.07
Race									
White	1			1			1		
Black	0.77	0.71	0.83	1.02	0.97	1.07	1.08	1.03	1.14
Other	0.88	0.80	0.97	0.96	0.90	1.03	1.01	0.95	1.08
Comorbidities									
Acute/old Myocardial Infarction	1.43	1.37	1.50	1.25	1.20	1.29	1.21	1.16	1.25
Congestive Heart Failure	1.93	1.87	1.99	2.02	1.97	2.07	2.09	2.04	2.14
Peripheral vascular disease	0.89	0.84	0.94	1.04	1.00	1.09	1.10	1.06	1.14
Cerebrovascular disease	1.15	1.10	1.20	1.20	1.16	1.24	1.23	1.19	1.27
Chronic pulmonary disease	1.33	1.29	1.37	1.42	1.39	1.45	1.49	1.46	1.53
Dementia	1.30	1.24	1.35	1.72	1.67	1.78	1.87	1.81	1.93
Paralysis	0.72	0.65	0.79	0.75	0.70	0.80	0.76	0.72	0.81
Cancer and metastatic carcinoma	1.34	1.29	1.40	1.87	1.81	1.93	2.13	2.07	2.20
Diabetes with/without sequelae	0.88	0.85	0.92	1.01	0.98	1.04	1.07	1.04	1.10
Chronic renal failure	1.67	1.59	1.76	1.88	1.80	1.96	1.97	1.89	2.06

Chronic liver disease/cirrhosis	1.53	1.32	1.77	1.68	1.50	1.88	1.76	1.58	1.96
Moderate/severe liver disease	2.07	1.69	2.53	2.37	2.01	2.80	2.59	2.19	3.07
Ulcer disease	0.89	0.82	0.96	1.09	1.03	1.15	1.10	1.05	1.16
Rheumatologic disease	0.78	0.69	0.87	0.87	0.80	0.94	0.91	0.84	0.98
Women									
	30 Day			180 Day			360 Day		
	OR	95% CI		OR	95% CI		OR	95% CI	
1986	1			1			1		
1987	0.94	0.87	1.01	0.98	0.93	1.03	0.97	0.93	1.01
1988	0.97	0.90	1.05	0.96	0.91	1.00	0.94	0.90	0.98
1989	0.91	0.85	0.98	0.92	0.88	0.97	0.91	0.88	0.95
1990	0.89	0.82	0.95	0.88	0.84	0.92	0.85	0.82	0.89
1991	0.89	0.83	0.96	0.83	0.79	0.87	0.83	0.80	0.87
1992	0.88	0.82	0.94	0.85	0.81	0.89	0.84	0.81	0.88
1993	0.90	0.84	0.96	0.83	0.79	0.87	0.82	0.79	0.86
1994	0.84	0.78	0.90	0.81	0.78	0.85	0.80	0.77	0.83
1995	0.84	0.78	0.90	0.80	0.77	0.84	0.81	0.77	0.84
1996	0.87	0.81	0.93	0.81	0.77	0.85	0.81	0.77	0.84
1997	0.83	0.77	0.89	0.82	0.78	0.86	0.82	0.79	0.86
1998	0.89	0.83	0.95	0.88	0.85	0.93	0.88	0.85	0.92
1999	0.89	0.83	0.96	0.90	0.86	0.94	0.90	0.86	0.94
2000	0.85	0.79	0.91	0.87	0.83	0.91	0.89	0.86	0.93
2001	0.91	0.85	0.98	0.93	0.89	0.97	0.92	0.88	0.96
2002	0.94	0.88	1.01	0.97	0.93	1.02	0.94	0.91	0.98
2003	0.92	0.85	0.98	0.94	0.90	0.98	0.92	0.89	0.96
2004	0.87	0.81	0.93	0.89	0.85	0.93	0.89	0.85	0.93
2005	0.87	0.81	0.94	0.82	0.79	0.86	0.66	0.63	0.69
Age									
65-74	1			1			1		
75-84	1.47	1.41	1.53	1.45	1.41	1.49	1.45	1.42	1.49
>=84	2.65	2.54	2.76	2.69	2.62	2.75	2.69	2.64	2.75
Region									
Northeast	1			1			1		
Midwest	1.09	1.05	1.12	1.00	0.98	1.02	1.01	0.99	1.02
South	1.04	1.01	1.07	1.03	1.01	1.05	1.04	1.02	1.06
West	1.14	1.10	1.18	1.09	1.07	1.12	1.11	1.08	1.13
Race									
White	1			1			1		
Black	0.90	0.84	0.95	1.13	1.09	1.17	1.19	1.15	1.23
Other	0.94	0.88	1.01	1.00	0.96	1.05	1.00	0.96	1.05
Comorbidities									
Acute/old Myocardial Infarction	1.71	1.65	1.77	1.42	1.39	1.46	1.35	1.32	1.38
Congestive Heart Failure	2.33	2.27	2.38	2.27	2.24	2.31	2.26	2.23	2.29
Peripheral vascular disease	1.04	0.99	1.09	1.21	1.17	1.25	1.29	1.25	1.32
Cerebrovascular disease	1.33	1.29	1.38	1.37	1.34	1.40	1.36	1.34	1.39
Chronic pulmonary disease	1.37	1.34	1.41	1.45	1.43	1.48	1.52	1.49	1.54
Dementia	1.20	1.17	1.24	1.56	1.53	1.59	1.65	1.62	1.68
Paralysis	0.89	0.82	0.95	0.96	0.91	1.00	1.02	0.97	1.06
Cancer and metastatic carcinoma	1.92	1.85	2.00	3.04	2.96	3.11	3.45	3.37	3.53

Diabetes with/without sequelae	0.94	0.91	0.97	1.09	1.07	1.11	1.15	1.13	1.17
Chronic renal failure	2.10	2.00	2.21	2.32	2.24	2.41	2.40	2.32	2.49
Chronic liver disease/cirrhosis	1.64	1.43	1.87	2.12	1.93	2.32	2.26	2.07	2.46
Moderate/severe liver disease	3.05	2.58	3.59	3.22	2.83	3.66	3.23	2.84	3.66
Ulcer disease	0.94	0.88	0.99	1.06	1.02	1.10	1.07	1.04	1.11
Rheumatologic disease	0.81	0.75	0.87	0.97	0.93	1.02	1.03	1.00	1.07