

Supplementary Appendix

Mortality, Hospitalizations, and Expenditures for the Medicare Population age 65 and Older, 1999-2013

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Supplemental Figures

Supplementary Figure Legends

Figure S1. Adjusted Relative Annual Declines in Mortality Rates by Age, Sex and Race in the Fee-for-Service Population, 1999-2013.

The adjusted relative annual decline was calculated based on the incidence rate ratio for the time variable that was estimated from a mixed effects model with a Poisson link function. It represents the age-sex-race-adjusted relative annual decline in an outcome, given the other variables (i.e., age, sex, and race) are held constant in the model.

Figure S2. Histogram Depicting Risk-Standardized Mortality Rates (%) by U.S. Counties in 1999 and 2013 in the Fee-for-Service Population.

The blue bars and line represent data from 1999, while the red bars and line represent data from 2013. Each bar represents 0.1% of the risk-standardized mortality rate. Curves were fitted by a normal distribution function. There were a total of 27,552,139 Medicare fee-for-service beneficiaries aged 65 years or older across 3,275 counties or county equivalents in 1999 and a total of 30,148,234 Medicare fee-for-service beneficiaries aged 65 years or older across 3,280 counties or county equivalents in 2013. Data from Puerto Rico were included to estimate the national rate but were not included in the maps. For Puerto Rico, the risk-standardized mortality rate decreased from 4.97% (95% CI 4.91 to 5.04) in 1999 to 3.64 (95% CI 3.55 to 3.73) in 2013.

Figure S3. Adjusted Relative Annual Declines in Hospitalization Rates by Age, Sex and Race in the Fee-for-Service Population.

The adjusted relative annual decline was calculated based on the incidence rate ratio for the time variable that was estimated from a mixed effects model with a Poisson link function. It represents the age-sex-race-adjusted relative annual decline in an outcome, given the other variables (i.e., age, sex, and race) are held constant in the model.

Figure S4. Histogram Depicting Risk-Standardized Hospitalization Rates per 100,000 Person-years in the Fee-for-Service Population by U.S. Counties in 1999 and 2013.

The blue bars and line represent data from 1999, while the red bars and line represent data from 2013. Each bar represents 2,000 per 100,000 person-years risk-standardized hospitalizations. Curves were fitted by a normal distribution function. There were a total of 26,147,690 person-years of Medicare fee-for-service beneficiaries aged 65 years or older across 3,275 counties or county equivalents in 1999 and a total of 28,834,706 person-years of Medicare fee-for-service beneficiaries aged 65 years or older across 3,280 counties or county equivalents in 2013. Puerto Rico data was included to estimate the national rate but did not include in the maps. For Puerto Rico, the risk-standardized hospitalization rate per 100,000 person-years decreased from 29,038 (95% CI 27,891 to 30,184) in 1999 to 17,432 (95% CI 16,775 to 18,089) in 2013.

Figure S5. Top 10 Principal Discharge Diagnoses with Corresponding International Classification of Diseases (9th Edition) Codes for Medicare Fee-for-Service Beneficiaries Hospitalized in 1999 and 2013.

The color of the lines connecting the top 10 diagnoses in 1999 and 2013 indicate directional changes in the ordinal rank of specific diagnoses: green indicates rank has decreased (e.g., from 9th to 6th; therefore, more common), red indicates an increase, and black no change.

Figure S6. Major Discharge Disposition by Year, 1999-2013.

From top to bottom, pink represents transferred out, light blue represents discharge to rehabilitation, green represents discharge to others, light purple represents discharge to nursing facility, brown represents discharge to hospice/long-term care, green represents discharge to home with care services, red represents discharge to home, and dark purple represents expiration.

Figure S1. Adjusted Relative Annual Declines in Mortality Rates by Age, Sex and Race in the Fee-for-Service Population, 1999-2013

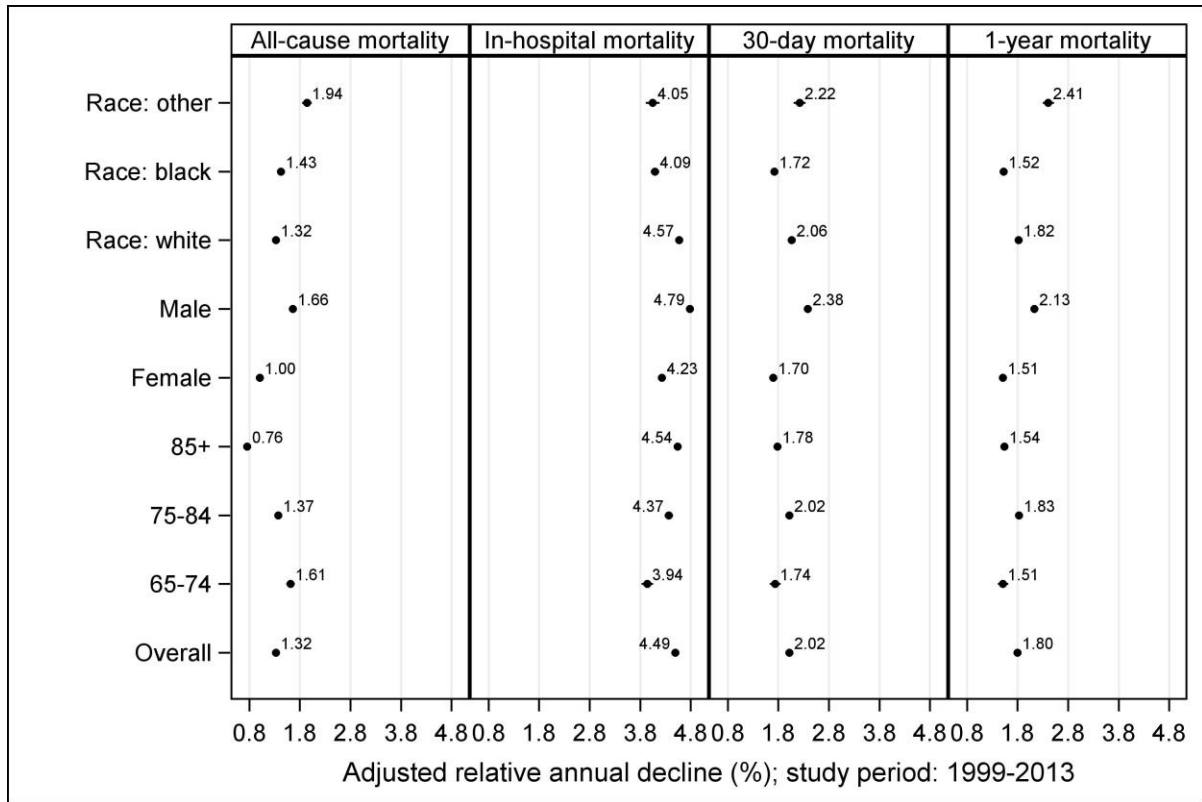


Figure S2. Histogram Depicting Risk-Standardized Mortality Rates (%) by U.S. Counties or County Equivalents in 1999 and 2013 in the Fee-for-Service Population

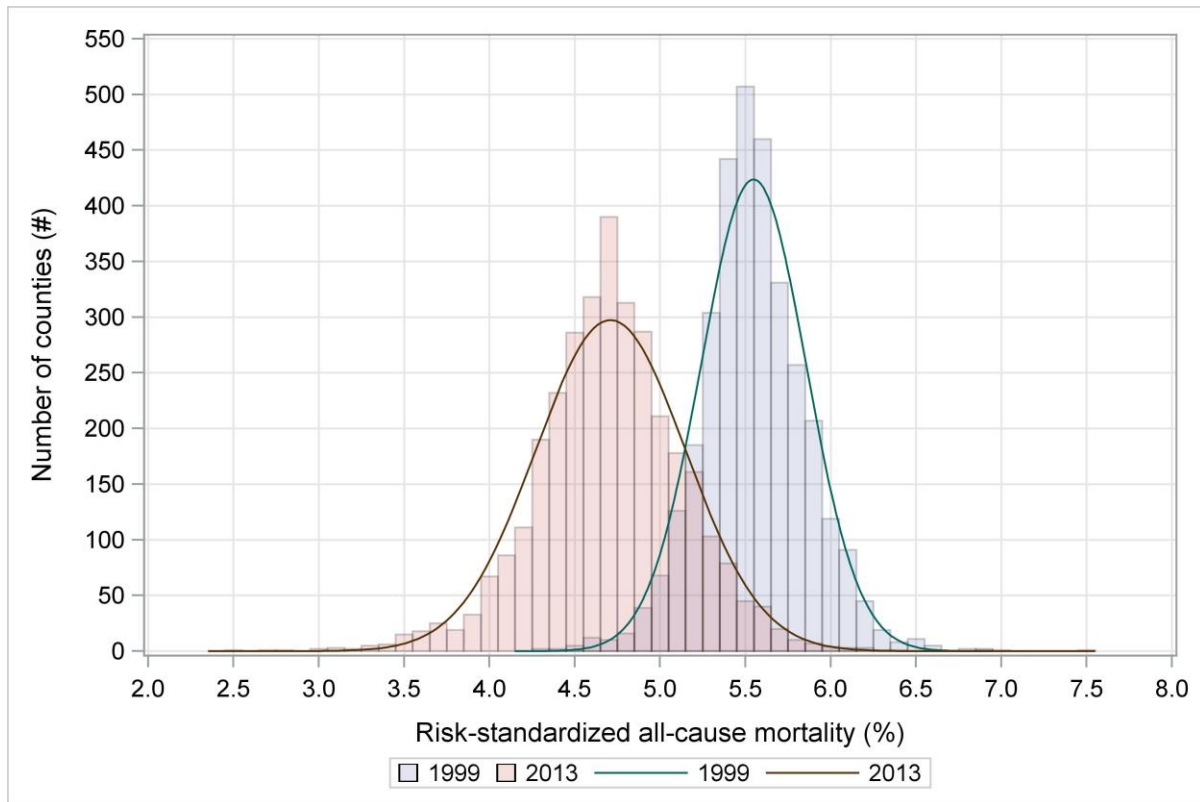


Figure S3. Adjusted Relative Annual Declines in Hospitalization Rates by Age, Sex and Race in the Fee-for-Service Population

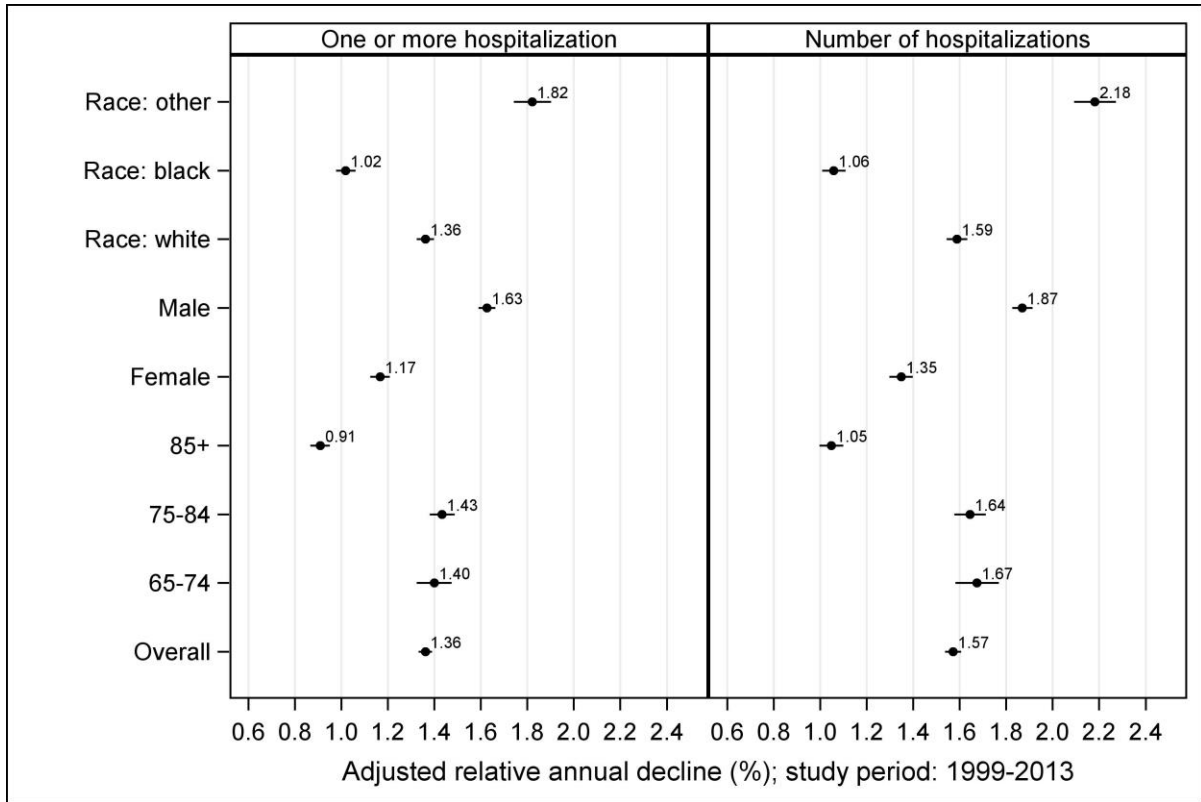


Figure S4. Histogram Depicting Risk-Standardized Hospitalization Rates per 100,000 person-years in the Fee-for-Service Population by U.S. Counties or County Equivalents in 1999 and 2013

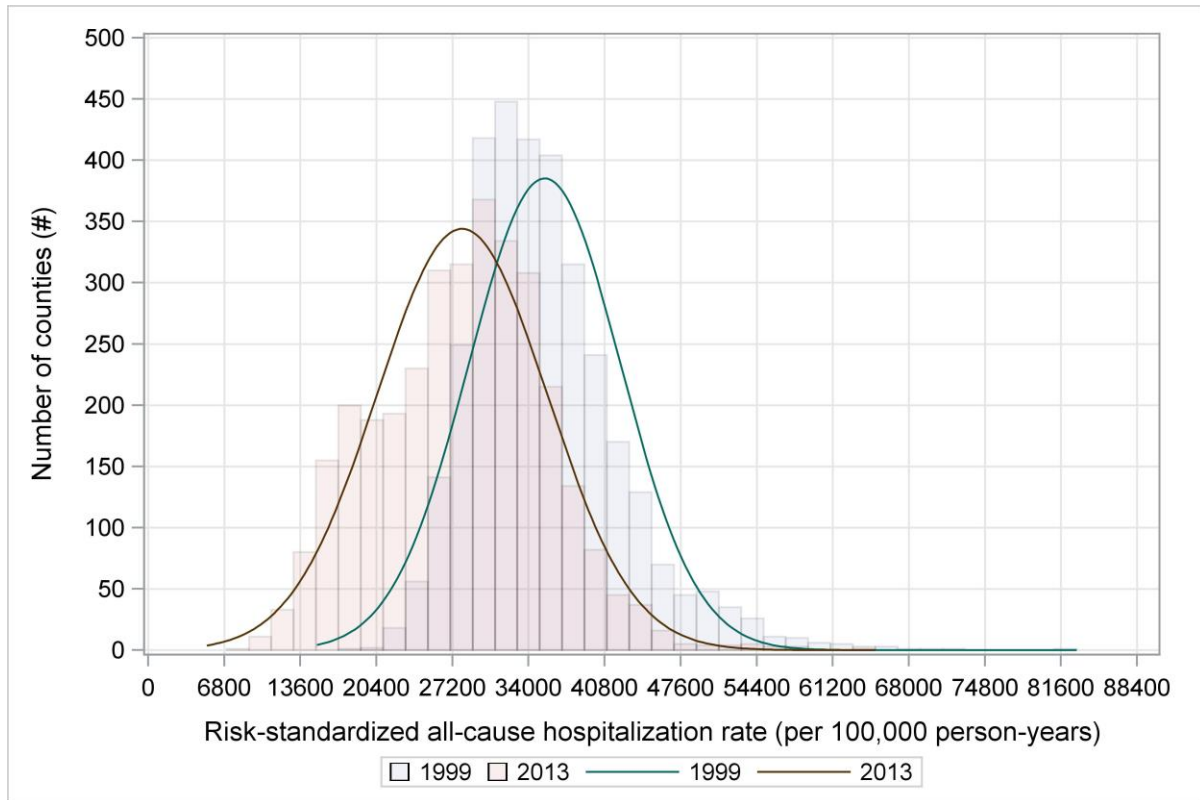
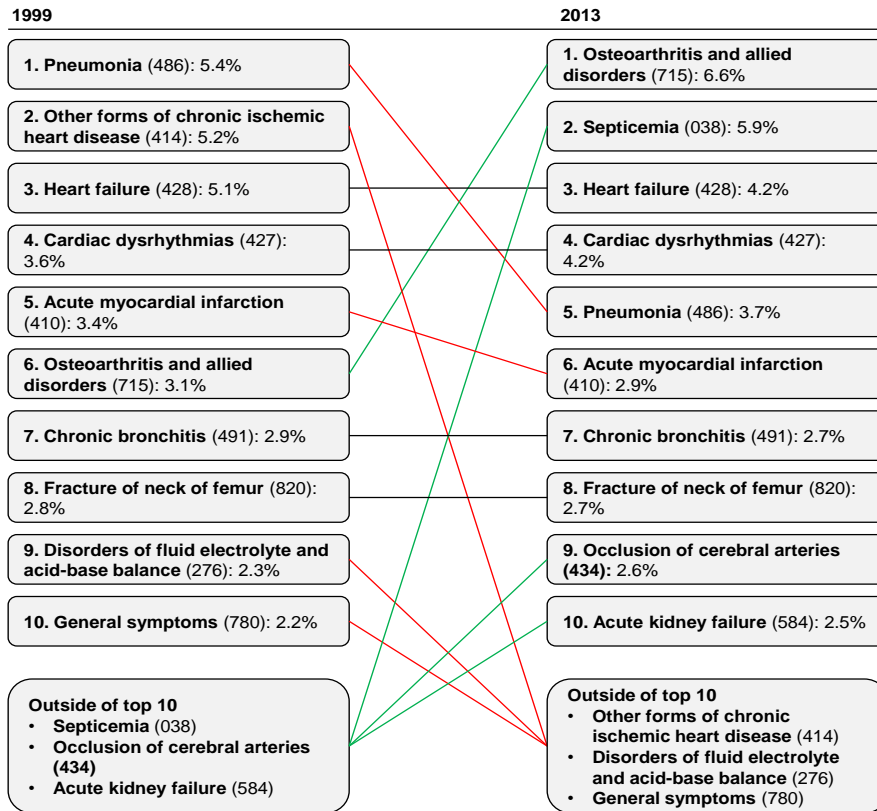


Figure S5. Top 10 Principal Discharge Diagnoses with Corresponding International Classification of Diseases (9th edition) Codes for Medicare Fee-for-Service Beneficiaries Hospitalized in 1999 and 2013.



Supplementary Tables

Table S1. Medicare Fee-for-Service Population 1999, 2006, and 2013 – Demographic Features and Comorbidities by Age Groups.

Category	Age (years)	1999	2006	2013
Medicare Fee-for-Service population				
Total number of beneficiaries				
	65-74	14,322,275	15,347,057	16,905,170
	75-84	9,670,813	10,404,462	8,922,528
	≥85	3,559,051	4,037,175	4,320,536
Person-years of Medicare enrollment				
	65-74	13,828,895	14,672,246	16,418,718
	75-84	9,157,599	9,796,481	8,528,376
	≥85	3,161,196	3,594,076	3,887,612
Demographics				
Mean age, year, standard deviation				
	65-74	69.4 (2.9)	69.1 (2.9)	68.8 (2.9)
	75-84	78.9 (2.8)	79.1 (2.8)	79.1 (2.9)
	≥85	89.1 (3.7)	89.1 (3.7)	89.2 (3.7)
Female, %				
	65-74	54.9	53.3	52.0
	75-84	61.2	59.4	57.1
	≥85	72.5	69.7	67.1

Race				
White	65-74	85.6	85.3	83.5
	75-84	88.2	87.0	85.8
	≥85	87.4	87.6	86.5
Black	65-74	8.2	8.9	8.6
	75-84	7.2	7.1	7.6
	≥85	8.0	7.4	7.0
Other	65-74	6.2	5.8	7.9
	75-84	4.6	5.8	6.6
	≥85	4.6	5.0	6.4
Enrollment in Medicare Advantage, %				
	65-74	3.0	5.0	3.0
	75-84	2.1	4.0	1.9
	≥85	1.7	3.3	1.5
Dual eligible, %				
	65-74	11.0	12.0	11.5
	75-84	13.1	14.0	14.7
	≥85	21.2	18.0	17.0
Comorbidity (per 100,000 person-years)				
History of heart failure				

	65-74	1,337	1,395	1,093
	75-84	3,062	2,934	2,446
	≥85	6,395	6,268	5,209
History of myocardial infarction				
	65-74	308	281	229
	75-84	602	529	451
	≥85	952	991	850
Hypertension				
	65-74	6,943	8,190	7,313
	75-84	12,932	14,946	14,433
	≥85	19,372	23,461	23,662
Stroke				
	65-74	238	196	162
	75-84	578	438	380
	≥85	1,036	838	692
Chronic obstructive pulmonary disease				
	65-74	3,041	3,143	2,309
	75-84	5,594	5,671	4,369
	≥85	7,430	7,949	5,985
Chronic atherosclerosis				
	65-74	4,213	4,317	3,105
	75-84	8,339	8,308	6,620
	≥85	12,782	12,748	10,491
Pneumonia				

	65-74	1,026	1,181	1,269
	75-84	2,295	2,476	2,719
	≥85	4,887	5,260	5,561
Trauma, past year				
	65-74	756	939	646
	75-84	2,008	2,278	1,640
	≥85	5,166	5,638	4,129
Chronic liver disease				
	65-74	223	247	280
	75-84	254	270	297
	≥85	191	208	233
Asthma				
	65-74	379	548	509
	75-84	550	750	697
	≥85	693	931	886
Cancer				
	65-74	1,779	1,652	1,373
	75-84	3,089	2,820	2,468
	≥85	3,962	3,626	3,083
Diabetes				
	65-74	3,664	4,239	3,753
	75-84	5,749	6,324	6,202

≥ 85

6,465

7,326

7,419

Table S2. Medicare Fee-for-Service Population 1999, 2006, and 2013 – Demographic Features and Comorbidities by Race-Sex Groups.

Category	Race-Sex	1999	2006	2013
Medicare Fee-for-Service population				
Total number of beneficiaries				
	Female White	14,139,724	14,729,816	14,161,114
	Male White	9,759,781	10,946,340	11,341,327
	Female Black	1,340,883	1,467,794	1,432,634
	Male Black	810,847	938,569	1,006,686
	Female Other	889,924	968,465	1,183,760
	Male Other	610,980	737,710	1,022,713
Person-years of Medicare enrollment				
	Female White	13,456,244	13,927,194	13,577,707
	Male White	9,234,442	10,320,264	10,859,789
	Female Black	1,264,888	1,354,976	1,351,270
	Male Black	757,149	864,185	947,932
	Female Other	854,107	908,129	1,125,983
	Male Other	580,861	688,055	972,025
Demographics				
Mean age, year, standard deviation				
	Female White	76.2 (7.7)	76.2 (8.0)	75.7 (8.4)
	Male White	74.2 (6.8)	74.3 (7.1)	74.0 (7.4)
	Female Black	75.8 (8.1)	75.4 (8.2)	75.0 (8.4)

	Male Black	73.8 (7.2)	73.5 (7.2)	73.1 (7.3)
	Female Other	74.9 (7.8)	75.7 (8.0)	74.9 (8.4)
	Male Other	73.5 (7.0)	74.1 (7.3)	72.8 (7.5)

Dual eligible, %

	Female White	11.9	11.9	11.5
	Male White	5.8	6.4	6.6
	Female Black	39.9	37.0	32.9
	Male Black	21.9	21.7	21.0
	Female Other	46.1	54.2	48.9
	Male Other	37.5	41.2	33.5

Enrollment in Medicare Advantage, %

	Female White	2.3	3.9	2.0
	Male White	2.4	3.9	1.9
	Female Black	3.7	8.2	5.1
	Male Black	3.7	7.3	4.5
	Female Other	3.0	7.3	5.6
	Male Other	3.6	7.4	5.3

Comorbidity (per 100,000 person-years)*

History of heart failure

	Female White	2,478	2,457	1,976
	Male White	2,543	2,521	2,035
	Female Black	3,734	3,876	3,260
	Male Black	3,321	3,534	2,950
	Female Other	1,874	2,008	1,419

	Male Other	1,845	1,982	1,364
History of myocardial infarction				
	Female White	432	409	336
	Male White	591	520	424
	Female Black	466	517	489
	Male Black	520	548	495
	Female Other	313	366	264
	Male Other	438	439	322
Chronic atherosclerosis				
	Female White	5,795	5,642	4,152
	Male White	8,450	8,655	6,709
	Female Black	6,168	6,360	4,889
	Male Black	6,280	6,821	5,488
	Female Other	4,134	4,535	2,885
	Male Other	5,077	5,855	4,052
Hypertension				
	Female White	10,976	13,058	12,070
	Male White	9,653	11,600	11,200
	Female Black	14,487	15,771	14,580
	Male Black	12,335	13,358	12,913
	Female Other	8,183	10,953	8,882
	Male Other	7,221	9,410	7,919
Stroke				
	Female White	420	334	278

Male White	442	340	285
Female Black	791	661	523
Male Black	747	651	536
Female Other	362	327	236
Male Other	419	360	250

Chronic obstructive pulmonary disease

Female White	3,957	4,349	3,433
Male White	5,577	5,312	3,684
Female Black	3,178	3,886	3,234
Male Black	5,357	5,392	3,723
Female Other	2,307	2,689	1,677
Male Other	3,423	3,600	2,094

Pneumonia

Female White	1,755	2,010	2,179
Male White	2,173	2,289	2,405
Female Black	2,137	2,461	2,538
Male Black	2,685	2,881	2,851
Female Other	1,423	1,783	1,717
Male Other	1,755	2,067	1,927

Trauma, past year

Female White	2,084	2,397	1,660
Male White	1,411	1,681	1,288
Female Black	1,227	1,462	959
Male Black	1,116	1,379	967

	Female Other	1,308	1,720	994
	Male Other	991	1,301	810
Chronic liver disease				
	Female White	185	203	225
	Male White	277	279	312
	Female Black	203	238	270
	Male Black	339	422	501
	Female Other	265	350	328
	Male Other	398	437	391
Asthma				
	Female White	558	805	776
	Male White	307	407	361
	Female Black	865	1,270	1,177
	Male Black	398	513	460
	Female Other	599	911	785
	Male Other	358	467	378
Cancer				
	Female White	2,135	2,002	1,694
	Male White	3,052	2,698	2,219
	Female Black	2,492	2,448	2,188
	Male Black	3,947	3,561	2,872
	Female Other	1,400	1,533	1,180
	Male Other	1,992	2,005	1,502
Diabetes				

Female White	4,192	4,685	4,358
Male White	4,815	5,408	5,081
Female Black	8,395	9,418	8,496
Male Black	6,759	7,969	7,453
Female Other	5,007	6,244	5,085
Male Other	4,942	5,960	4,874

Table S3. Medicare Fee-for-Service Population 1999, 2006, and 2013 – Hospitalizations and Outcomes by Age Groups.

Category	Age (years)	1999	2006	2013
Mortality (%)				
All death				
	65-74	2.7	2.2	2.0
	75-84	6.2	5.5	5.3
	≥85	15.2	14.2	14.1
In-hospital death				
	65-74	0.6	0.4	0.3
	75-84	1.5	1.1	0.8
	≥85	3.8	2.7	2.1
30 days from admission				
	65-74	0.9	0.8	0.7
	75-84	2.4	2.0	1.9
	≥85	6.8	5.9	5.4
1 year from admission				
	65-74	2.0	1.7	1.5
	75-84	5.1	4.2	3.9
	≥85	13.7	12.1	11.1
Hospitalization (per 100,000 person-years)				
≥1 hospitalization				
	65-74	14,549	13,941	11,506

	75-84	25,952	24,137	20,879
	≥85	41,347	38,946	34,248
Total hospitalizations				
	65-74	23,475	22,445	17,836
	75-84	42,325	39,199	32,513
	≥85	66,460	63,396	53,084
Hospitalizations for major surgical care				
	65-74	3,236	3,171	2,785
	75-84	4,554	4,291	3,811
	≥85	3,946	3,580	2,907
Discharge status				
Transferred to another acute care hospital				
	65-74	895	562	374
	75-84	1,419	871	629
	≥85	1,348	870	653
SNF/ICF				
	65-74	2,452	2,701	2,688
	75-84	8,295	8,265	7,704
	≥85	23,726	22,848	19,515
Home				
	65-74	15,842	13,829	9,705
	75-84	23,225	19,267	13,865
	≥85	24,720	20,162	14,372

Home with care

65-74	2,236	3,093	3,103
75-84	4,746	5,841	5,789
≥85	7,550	9,510	9,262

Hospice

65-74	24	282	334
75-84	52	714	982
≥85	106	1991	2996

Long-term care

65-74	--	211	227
75-84	--	380	390
≥85	--	586	548

Rehabilitation

65-74	--	753	663
75-84	--	1636	1472
≥85	--	2327	2153

**Adjusted Medicare inpatient expenditure
per beneficiary (\$)**

65-74	2,375	2,389	2,007
75-84	3,982	3,933	3,417
≥85	5,285	5,343	4,802

Last 1 month of life

Adjusted Medicare inpatient expenditure per

beneficiary (\$)				
	65-74	10,883	11,242	10,607
	75-84	9,745	9,267	9,228
	≥85	6,949	6,779	6,557
Total mean length of stay (days)				
	65-74	18	18	15
	75-84	16	16	13
	≥85	13	12	10
≥1 hospitalization rate				
	65-74	37.7	37.5	34.8
	75-84	41.7	38.1	36.7
	≥85	43.9	40.6	37.1
Total hospitalization rate				
	65-74	64.4	66.3	59.2
	75-84	67.3	62.9	59.2
	≥85	65.3	61.9	54.3
Last 3 months of life				
Adjusted Medicare inpatient expenditure per beneficiary (\$)				
	65-74	14,919	16,079	14,617
	75-84	13,324	13,069	12,503
	≥85	9,609	9,665	8,868
Total mean length of stay (days)				
	65-74	19	19	17

	75-84	17	17	14
	≥85	14	13	11
≥1 hospitalization rate				
	65-74	52.4	53.8	47.5
	75-84	57.6	53.6	49.5
	≥85	60.1	56.8	49.7
Total hospitalization rate				
	65-74	100.3	107.1	90.3
	75-84	102.6	98.0	87.7
	≥85	96.8	94.5	78.5
Last 6 months of life				
Adjusted Medicare inpatient expenditure per beneficiary (\$)				
	65-74	18,548	20,435	17,360
	75-84	16,430	16,251	14,543
	≥85	11,781	11,991	10,288
Total mean length of stay (days)				
	65-74	19	20	17
	75-84	17	17	15
	≥85	14	14	12
≥1 hospitalization rate				
	65-74	65.4	67.9	55.5
	75-84	71.2	66.7	57.1
	≥85	73.2	70.0	57.3

Total hospitalization rate

65-74	134.4	145.9	112.7
75-84	135.1	129.8	106.7
≥85	124.3	122.7	94.6

“--” indicates that data were not available for this variable.

SNF/ICF, Skilled nursing facility/Intermediate care facility

Table S4. Medicare Fee-for-Service Population 1999, 2006, and 2013 – Hospitalizations and Outcomes by Race-Sex Groups.

Category	Race-Sex	1999	2006	2013
Mortality (%)				
All death				
	Female White	5.3	4.9	4.7
	Male White	6.0	5.2	4.9
	Female Black	5.7	5.0	4.8
	Male Black	7.2	6.1	5.4
	Female Other	3.8	3.5	3.2
	Male Other	4.6	4.1	3.4
In-hospital death				
	Female White	1.2	0.9	0.7
	Male White	1.5	1.0	0.8
	Female Black	1.5	1.1	0.8
	Male Black	1.8	1.3	0.9
	Female Other	0.9	0.7	0.5
	Male Other	1.1	0.9	0.6
30 days from admission				
	Female White	2.0	1.7	1.6
	Male White	2.4	2.0	1.8
	Female Black	2.3	2.0	1.8
	Male Black	2.7	2.2	1.9

	Female Other	1.3	1.3	1.1
	Male Other	1.6	1.5	1.2
1 year from admission				
	Female White	4.2	3.7	3.4
	Male White	5.0	4.2	3.7
	Female Black	5.0	4.5	4.0
	Male Black	5.9	5.1	4.4
	Female Other	2.8	2.7	2.2
	Male Other	3.5	3.2	2.5
Hospitalization (per 100,000 person-years)				
≥1 hospitalization				
	Female White	21,722	20,831	17,775
	Male White	22,328	20,679	17,278
	Female Black	23,728	23,185	19,812
	Male Black	23,419	22,195	18,865
	Female Other	16,055	17,035	12,850
	Male Other	16,567	16,552	12,365
Total hospitalizations				
	Female White	34,397	33,045	27,004
	Male White	36,429	33,508	26,807
	Female Black	41,771	41,477	34,046
	Male Black	41,427	40,191	32,872
	Female Other	26,482	27,785	19,987

Male Other	27,974	27,587	19,613
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Hospitalizations for major surgical care

Female White	3,722	3,715	3,300
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Male White	4,285	3,847	3,254
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Female Black	2,915	2,866	2,470
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Male Black	2,868	2,656	2,271
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Female Other	2,321	2,387	1,820
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Male Other	2,490	2,379	1,893
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Discharge status

Transferred to another acute care hospital

Female White	998	618	432
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Male White	1,388	829	565
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Female Black	1,034	759	549
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Male Black	1,234	879	615
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Female Other	705	533	300
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Male Other	936	675	400
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SNF/ICF

Female White	8,161	8,358	7,481
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Male White	5,708	5,630	5,259
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Female Black	8,580	9,674	8,487
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Male Black	7,634	8,720	7,789
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Female Other	4,259	5,179	4,289
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Male Other	3,576	4,167	3,442
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Home

Female White	17,733	15,023	10,629
Male White	21,794	18,324	12,733
Female Black	22,209	18,596	13,217
Male Black	23,143	19,388	13,994
Female Other	16,277	14,447	9,072
Male Other	18,119	15,557	9,793

Home with care

Female White	3,798	4,909	4,819
Male White	3,630	4,583	4,498
Female Black	5,286	7,191	7,061
Male Black	4,386	5,592	5,474
Female Other	2,597	4,378	3,712
Male Other	2,387	3,741	3,217

Hospice

Female White	43	650	908
Male White	48	667	885
Female Black	43	754	1084
Male Black	51	759	1019
Female Other	22	416	546
Male Other	22	414	535

Long-term care

Female White	--	274	270
Male White	--	293	303
Female Black	--	657	647
Male Black	--	704	705
Female Other	--	339	308
Male Other	--	390	353

Rehabilitation

Female White	--	1392	1169
Male White	--	1132	1069
Female Black	--	1387	1273
Male Black	--	1255	1221
Female Other	--	956	720
Male Other	--	776	659

**Adjusted Medicare inpatient expenditure
per beneficiary (\$)**

Female White	2,947	2,993	2,616
Male White	3,671	3,551	2,925
Female Black	4,093	4,179	3,606
Male Black	4,395	4,453	3,768
Female Other	2,546	2,923	2,297
Male Other	3,077	3,321	2,518

Last 1 month of life

Adjusted Medicare inpatient expenditure per
beneficiary (\$)

Female White	7,905	7,580	7,251
Male White	9,712	9,294	8,833
Female Black	11,831	11,611	11,076
Male Black	11,542	11,807	11,366
Female Other	9,993	10,433	10,224
Male Other	11,172	11,985	11,872

Total mean length of stay (days)

Female White	14	14	12
Male White	15	15	13
Female Black	19	18	16
Male Black	19	19	16
Female Other	17	17	14
Male Other	17	18	15

≥1 hospitalization rate

Female White	40.5	37.8	35.1
Male White	42.9	40.1	37.6
Female Black	43.1	41.1	39.0
Male Black	40.5	39.4	38.0
Female Other	38.4	37.7	35.3
Male Other	39.2	38.5	36.7

Total hospitalization rate

Female White	62.8	60.0	53.8
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Male White	68.7	65.6	59.1
Female Black	73.7	72.2	66.6
Male Black	68.4	69.2	64.3
Female Other	62.5	62.7	56.2
Male Other	64.2	64.7	59

Last 3 months of life

Adjusted Medicare inpatient expenditure per beneficiary (\$)

Female White	10,910	10,788	9,877
Male White	13,133	13,054	11,926
Female Black	16,889	17,152	15,695
Male Black	16,172	17,311	15,977
Female Other	13,818	14,968	13,709
Male Other	15,336	16,659	15,755

Total mean length of stay (days)

Female White	15	15	13
Male White	16	16	14
Female Black	20	20	17
Male Black	20	20	17
Female Other	18	18	15
Male Other	19	19	16

≥ 1 hospitalization rate

Female White	56.0	53.4	47.6
Male White	58.5	56.0	50.2
Female Black	61.5	60.2	54.4
Male Black	57.1	56.7	52.5
Female Other	53.3	53.8	47.2
Male Other	53.8	53.2	48.3

Total hospitalization rate

Female White	95.3	93.4	79.3
Male White	103.1	101.2	86.6
Female Black	117.5	119.5	103.5
Male Black	107.6	112.5	99.1
Female Other	96.6	99.6	82.6
Male Other	98.5	100.7	86.1

Last 6 months of life

Adjusted Medicare inpatient expenditure per beneficiary (\$)

Female White	13,493	13,496	11,540
Male White	16,097	16,239	13,903
Female Black	21,238	21,807	18,721
Male Black	20,201	21,956	18,995
Female Other	17,169	18,847	15,983
Male Other	18,833	20,818	18,260

Total mean length of stay (days)

Female White	16	15	13
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	Male White	16	16	14
	Female Black	21	21	18
	Male Black	21	21	18
	Female Other	19	19	15
	Male Other	19	20	16
≥1 hospitalization rate				
	Female White	69.1	66.5	55.1
	Male White	71.7	69.2	57.9
	Female Black	76.9	76	63.9
	Male Black	71.4	71.6	61.2
	Female Other	66.0	67.0	54.3
	Male Other	66.3	66.3	55.2
Total hospitalization rate				
	Female White	124.9	123.5	96.6
	Male White	134.2	133.0	105.2
	Female Black	159.1	163.0	129.6
	Male Black	144.6	152.8	123.6
	Female Other	128.9	133.7	100.9
	Male Other	130.1	134.7	104.6

“—” indicates that data was not available for this variable

SNF/ICF, Skilled nursing facility/Intermediate care facility