

Table S1. Sample Characteristics Overall, by Discharge Destination, and Use of Home Health Care (HHC) within 14 Days of Index Hospitalization, column percent unless otherwise noted.

Characteristics	Total <i>N</i> = 786,758	Discharged to HHC <i>n</i> = 209,152	Received HHC <i>n</i> = 213,766
Race/Ethnicity, %			
White, non-Hispanic	68.0	69.0	68.7
Black	17.1	18.2	18.6
Hispanic	11.0	9.5	9.7
Asian/Pacific Islander	2.5	2.5	2.3
American Indian/Alaska Native	0.7	0.6	0.6
Unknown/Other	0.7	0.2	---
Sex, %			
Male	51.2	46.3	45.3
Age, %			
50-65	21.7	18.2	18.5
66-75	38.0	32.1	31.0
76-85	29.1	32.6	33.0
86+	11.1	17.2	17.5
Insurance, %			
Fee-for-Service (FFS)	46.2	43.1	45.0
FFS and Medicaid	18.2	20.9	23.4
Medicare Advantage (MA)	24.1	23.0	20.1
MA and Medicaid	11.5	13.0	11.5
RUCC-ADI 2.0 (zip code level), %			
Rural-Advantaged (ADI 2.0 <85)	13.6	12.0	12.6
Rural-Disadvantaged (ADI 2.0 ≥85)	4.1	3.8	4.3
Urban-Advantaged (ADI 2.0 <85)	69.8	71.6	70.0
Urban-Disadvantaged (ADI 2.0 ≥85)	12.5	12.7	13.1
Elixhauser score ( $\bar{x}$ )	16.5	16.6	16.5
Comorbidities, %			
Chronic pulmonary disease	26.2	29.3	29.7
Congestive heart failure	37.4	44.3	44.6
Dementia	16.4	23.6	25.6
Depression	11.4	12.9	12.9
Diabetes with complications	29.4	34.9	33.9
Fluid and electrolyte disorders	34.8	40.5	39.7
Hypertension	89.8	89.4	89.3
Hypothyroidism	17.9	19.6	20.0
Peripheral vascular disease	17.2	19.4	19.2
Renal failure	37.2	41.7	42.0
Prior HHC use % (120-day look back)	15.4	29.6	36.9
Length of stay, days ( $\bar{x}$ , <i>SD</i> )	3.9 (4.2)	5.2 (4.2)	5.0 (4.1)

Note: Elixhauser score (median, IQR) 26, 14–40; 31, 19–44; 31, 19–43; Length of stay, days (median, IQR) 3, 2–5; 4, 3–6; 4, 3–6; Age (median, IQR) 73, 67–80; 75, 68–83; 76, 68–83.

Table S2. Sample Characteristics Stratified by Neighborhood Profile based on Rural-Urban Designation and the Area Deprivation Index 2.0, row percentage unless otherwise noted

	Rural-Advantaged		Rural-Disadvantaged		Urban-Advantaged		Urban-Disadvantaged	
Total	106,828	13.6%	32,183	4.1%	549,175	69.8%	98,572	12.5%
Race/Ethnicity								
White, non-Hispanic	92,892	17.4%	21,503	4.0%	380,151	71.1%	40,187	7.5%
Black	8,119	6.0%	7,314	5.4%	82,955	61.8%	35,862	26.7%
Hispanic	3,122	3.6%	2,141	2.5%	61,414	70.7%	20,157	23.2%
Asian/Pacific Islander	579	2.9%	71	0.4%	17,886	89.9%	1,352	6.8%
American Indian/Alaska Native	1,568	26.8%	1,039	17.7%	2,598	44.3%	654	11.2%
Sex								
Female	49,349	12.9%	16,575	4.3%	264,023	68.8%	54,020	14.1%
Male	57,479	14.3%	15,608	3.9%	285,152	70.8%	44,552	11.1%
Age								
50–65	22,329	13.1%	9,346	5.5%	109,313	64.0%	29,929	17.5%
66–75	43,049	14.4%	12,322	4.1%	208,527	69.7%	35,351	11.8%
76–85	31,492	13.8%	8,079	3.5%	164,982	72.0%	24,526	10.7%
86+	9,958	11.4%	2,436	2.8%	66,353	75.8%	8,766	10.0%
Insurance, Medicare								
Fee-For-Service (FFS)	59,396	16.3%	13,829	3.8%	261,886	72.0%	28,570	7.9%
FFS and Medicaid (dual)	21,239	14.8%	10,579	7.4%	86,569	60.5%	24,793	17.3%
Medicare Advantage (MA)	20,001	10.6%	4,836	2.6%	141,414	74.7%	23,142	12.2%
MA and Medicaid (dual)	6,192	6.8%	2,939	3.2%	59,306	65.5%	22,067	24.4%
Elixhauser Score ( $\bar{x}$ , $SD$ )	27.1	(16.3)	27.53	(16.1)	27.99	(16.6)	28.82	(16.6)
Comorbidities								
Chronic pulmonary disease	30,142	14.6%	9,514	4.3%	138,819	70.2%	28,011	13.6%
Congestive heart failure	40,804	13.9%	12,379	4.2%	203,896	69.3%	37,029	12.6%
Dementia	16,422	12.8%	5,538	4.3%	90,284	70.2%	16,424	12.8%
Depression	13,053	14.5%	3,542	3.9%	62,386	69.5%	10,849	12.1%
Diabetes with complications	27,397	11.8%	8,568	3.7%	164,250	71.0%	31,095	13.4%
Hypertension	94,434	13.4%	28,649	4.1%	493,443	69.8%	90,053	12.7%
Hypothyroidism	19,816	14.0%	5,404	3.8%	100,627	71.3%	15,263	10.8%

Fluid and electrolyte disorders	35,613	13.0%	11,252	4.1%	191,504	70.0%	35,261	12.9%
Peripheral vascular disease	17,888	13.2%	5,262	3.9%	95,690	70.6%	16,739	12.3%
Renal failure	37,543	12.8%	11,564	3.9%	205,360	70.1%	38,525	13.1%
Discharged to home health care	25,044	12.0%	7,851	3.8%	149,655	71.6%	26,602	12.7%
Prior HHC (120-day look back)	14,787	12.2%	6,054	5.0%	81,949	67.8%	18,034	14.9%
Post-Acute HHC, first 14 days	27,017	12.6%	9,264	4.3%	149,489	69.9%	27,996	13.1%
Hospital Length of Stay ( $\bar{x}$ , $SD$ )	3.7	(3.1)	3.9	(3.3)	3.8	(3.4)	4.1	(3.6)
Region								
Pacific	5,060	5.8%	372	0.4%	76,193	87.8%	5,123	5.9%
East North Central	21,744	16.9%	3,548	11.0%	83,975	65.3%	19,388	15.1%
East South Central	15,417	24.5%	7,998	12.7%	21,775	50.5%	7,728	12.3%
Middle Atlantic	7,900	7.2%	1,121	1.0%	86,293	79.1%	13,753	12.6%
Mountain	4,797	13.2%	1,114	3.1%	26,484	72.9%	3,942	10.9%
New England	3,515	10.9%	193	0.6%	27,299	84.9%	1,142	3.6%
South Atlantic	21,935	12.0%	8,426	4.6%	129,726	70.9%	22,998	23.3%
West North Central	12,523	1.6%	2,435	5.4%	26,509	58.3%	3,988	4.1%
West South Central	13,876	14.8%	6,547	7.0%	57,139	60.8%	16,425	17.5%
Puerto Rico	59	0.7%	429	5.2%	3,740	45.0%	4,075	49.1%

Note: HHC: home health care; AIAN: American Indian/ Alaska Native; Hospital Length of stay (median, IQR) 3, 2–5; 3, 2–5; 3, 2–5; 3, 2–5; Age (median, IQR) 73, 67–79; 71, 65–78; 73, 67–81; 71, 65–78; Elixhauser score (median, IQR) 26, 14–38; 26, 14–39; 26, 14–40; 27, 15–41; Disadvantaged: ADI 2.0  $\geq$  85<sup>th</sup> percentile; Advantaged: ADI 2.0 < 85<sup>th</sup> percentile

Table S3. Sample Characteristics Stratified by Insurance Type, row percentage unless otherwise noted

	Medicare fee- for-service only	Dual Medicare fee- for-service/Medicaid	Medicare Advantage only	Dual Medicare Ad- vantage/Medicaid
Total	363,681 46.2%	143,180 18.2%	189,393 24.1%	90,504 11.5%
Race/Ethnicity				
White, non-Hispanic	292,162 54.6%	73,241 13.7%	133,477 25.0%	35,853 6.7%
Black	43,151 32.1%	36,592 27.3%	27,862 20.8%	26,645 19.9%
Hispanic	17,581 20.3%	23,948 27.6%	22,138 25.5%	23,167 26.7%
Asian/Pacific Islander	5,392 27.1%	6,763 34.0%	3,817 19.2%	3,916 19.7%
American Indian/Alaska Native	2,754 47.0%	2,098 35.8%	591 10.1%	416 7.1%
Sex				
Female	157,751 41.1%	87,250 22.7%	83,309 21.7%	55,657 14.5%
Male	205,930 26.2%	55,930 7.1%	106,084 13.5%	34,847 4.4%
Age ( $\bar{x}$ , <i>SD</i> )	74.6 (9.1)	69.5 (10.9)	74.2 (8.7)	70.9 10.2%
50–65	54,820 32.1%	59,089 34.6%	28,892 16.9%	28,116 16.5%
66–75	146,173 48.9%	41,168 13.8%	79,620 26.6%	32,288 10.8%
76–85	115,847 50.6%	30,160 13.2%	60,626 26.5%	22,446 9.8%
86+	46,841 53.5%	12,763 14.6%	20,255 23.2%	7,654 8.8%
RUCC-ADI 2.0				
Rural-Advantaged (ADI 2.0 <85)	59,396 55.6%	21,239 19.9%	20,001 18.7%	6,192 5.8%
Rural-Disadvantaged (ADI 2.0 ≥ 85)	13,829 43.0%	10,579 32.9%	4,836 15.0%	2,939 9.1%
Urban-Advantaged (ADI 2.0 <85)	261,886 47.7%	86,569 15.8%	141,414 25.8%	59,306 10.8%
Urban-Disadvantaged (ADI 2.0 ≥ 85)	28,570 29.0%	24,793 25.2%	23,142 23.5%	22,067 22.4%
Elixhauser score ( $\bar{x}$ , <i>SD</i> )	27.1 (16.4)	30.7 (16.5)	27.1 (16.5)	28.8 (16.5)
Comorbidities				
Chronic pulmonary disease	88,115 42.7%	45,530 22.1%	45,495 22.0%	27,346 13.2%
Congestive heart failure	134,953 45.9%	55,680 18.9%	70,087 23.8%	33,388 11.4%
Dementia	69,500 54.0%	39,160 30.4%	8,642 6.7%	11,366 8.8%
Depression	38,550 42.9%	20,466 22.8%	19,125 21.3%	11,689 13.0%
Diabetes with complications	95,957 41.5%	47,061 20.4%	58,485 25.3%	29,807 12.9%
Fluid and electrolyte disorders	122,590 44.8%	56,854 20.8%	60,701 22.2%	33,485 12.2%
Hypertension	324,962 46.0%	128,659 18.2%	170,711 24.2%	82,247 11.6%
Hypothyroidism	69,082 49.0%	24,142 17.1%	33,517 23.8%	33,517 10.2%

Peripheral vascular disease	60,787	44.8%	23,318	17.2%	36,665	27.0%	14,809	10.9%
Renal failure	132,732	45.3%	58,517	20.0%	68,934	23.5%	32,809	11.2%
Discharged to Home Health Care	90,146	43.1%	43,732	20.9%	48,140	23.0%	27,134	13.0%
Prior HHC (120-day look back)	49,067	40.6%	36,574	30.3%	19,086	15.8%	16,097	13.3%
Post-Acute HHC, first 14 days	96,239	45.0%	50,054	23.4%	42,877	20.1%	24,596	11.5%
Hospital length of stay, days ( $\bar{x}$ , <i>SD</i> )	3.7	(3.2)	3.7	(3.2)	3.9	(3.4)	4.0	(3.6)

Notes: FFS = Fee-for-services; HHC = home health care ; Hospital length of stay, days (median, IQR) 3, 2–5; 3, 2–5; 3, 2–5; 3, 2–5; Age (median, IQR) 74, 68–81; 68, 61–78; 74, 68–80; 71, 64–78; Elixhauser score (median, IQR) 26, 13–39; 30, 18–42; 25, 13–38; 27, 16–40