

**eAppendix Table 1: Sample sizes and means by payment source (MA/TM), 2009 and 2014<sup>a</sup>**

		2009		2014	
		MA	TM	MA	TM
Sample size		778,395	2,061,383	933,261	1,837,396
Means	30-day all-cause readmission rate	14.2%	15.2%	13.2%	14.2%
	Chronic conditions, 2-3	16.8%	15.6%	11.9%	11.4%
	Chronic conditions, 4+	79.4%	81.0%	85.4%	86.1%
	Female	55.6%	57.6%	55.0%	56.1%
	Ages 75-84	41.0%	39.1%	37.2%	35.8%
	Ages 85+	21.6%	26.7%	21.9%	27.8%
	African-American	12.2%	8.2%	11.9%	7.9%
	Hispanic	12.9%	9.6%	16.5%	10.2%
	Other	7.1%	6.6%	7.3%	7.6%
	Zipcode income, \$40,000-49,999	23.7%	25.0%	26.3%	27.5%
	Zipcode income, \$50,000-65,999	26.8%	24.6%	21.8%	21.7%
	Zipcode income, \$66,000+	27.4%	26.2%	23.2%	24.0%
	PCPs per 100,000 residents in PCSA, 5-14	2.3%	4.7%	0.8%	0.8%
	PCPs per 100,000 residents in PCSA, 15-57	12.0%	18.4%	32.1%	31.1%
	PCPs per 100,000 residents in PCSA, 58+	85.2%	76.0%	66.8%	67.8%
	Population density: 1000s per sq. mile in PCSA	7468	6032	7845	6137
	Urban/rural, suburban (2009)/sm. metro (2014) <sup>b</sup>	4.2%	4.3%	20.5%	29.6%
	Urban/rural, large town (2009)/micropolitan (2014) <sup>b</sup>	3.2%	8.0%	2.2%	4.9%
	Urban/rural, other (both years) <sup>b</sup>	1.8%	4.9%	1.2%	3.1%
	APR-DRG risk of mortality, moderate	39.6%	39.6%	36.3%	36.5%
	APR-DRG risk of mortality, major	23.2%	25.3%	28.5%	30.5%
	APR-DRG risk of mortality, extreme	9.4%	10.8%	9.9%	10.8%
	APR-DRG disease severity, moderate	39.5%	38.5%	39.5%	39.0%
	APR-DRG disease severity, major	32.8%	34.9%	33.6%	35.4%
	APR-DRG disease severity, extreme	10.1%	11.7%	10.0%	11.2%
	Admission type, emergency	76.5%	72.1%	78.0%	75.9%
	Admission type, urgent	6.1%	8.7%	5.2%	6.7%
	Admission type, other	0.1%	0.1%	0.2%	0.2%
	State, California	41.5%	32.8%	35.6%	34.2%
	State, Florida	27.4%	31.0%	33.0%	33.7%
	State, New York	25.2%	26.7%	25.0%	24.0%
	State, Tennessee	5.9%	9.5%	6.4%	8.1%
	Teaching hospital	45.7%	35.7%	63.5%	54.6%
	Hospital bed size, medium	26.9%	22.7%	29.9%	28.6%
	Hospital bed size, large	66.3%	68.9%	58.9%	59.8%
	APRDRG weight	-0.03	0.01	-0.03	0.01
	Co-morbidity, HIV/AIDS	0.0%	0.0%	0.1%	0.0%
	Co-morbidity, alcohol abuse	2.1%	1.8%	2.7%	2.4%
	Co-morbidity, anemia/iron deficiency	22.3%	24.3%	23.1%	25.4%
	Co-morbidity, rheumatoid arthritis	2.9%	3.1%	3.4%	3.8%
	Co-morbidity, chronic bloos loss	1.5%	1.6%	1.2%	1.2%
	Co-morbidity, congestive heart failure	12.9%	14.5%	13.8%	15.6%
	Co-morbidity, chronic pulmonary disease	21.6%	23.5%	23.5%	24.5%
	Co-morbidity, coagulopathy	4.5%	4.8%	6.6%	6.5%
	Co-morbidity, depression	8.2%	9.9%	9.4%	11.8%

**eAppendix Table 1: Sample sizes and means by payment source (MA/TM), 2009 and 2014<sup>a</sup>**

	2009		2014	
	MA	TM	MA	TM
Co-morbidity, diabetes, uncomplicated	23.1%	25.3%	25.0%	26.1%
Co-morbidity, diabetes, with complications	8.6%	5.2%	10.3%	6.1%
Co-morbidity, drug abuse	0.4%	0.4%	1.1%	1.1%
Co-morbidity, hypertension	72.0%	68.7%	74.6%	72.1%
Co-morbidity, hypothyroidism	15.2%	16.5%	17.2%	19.3%
Co-morbidity, liver disease	1.8%	1.8%	2.7%	2.6%
Co-morbidity, lymphoma	1.1%	1.1%	1.2%	1.3%
Co-morbidity, fluid and electrolyte disorder	24.7%	28.4%	29.3%	33.1%
Co-morbidity, metastatic cancer	2.8%	2.8%	2.9%	3.0%
Co-morbidity, other neurological disorder	8.5%	11.1%	9.3%	11.8%
Co-morbidity, obesity	8.3%	6.8%	12.7%	10.3%
Co-morbidity, paralysis	2.9%	3.3%	3.1%	3.7%
Co-morbidity, peripheral vascular disorder	10.8%	9.5%	17.5%	10.0%
Co-morbidity, psychoses	3.3%	3.4%	5.0%	4.1%
Co-morbidity, pulmonary circulation disorder	2.4%	2.6%	3.5%	3.5%
Co-morbidity, renal failure	19.0%	17.5%	22.8%	21.4%
Co-morbidity, solid tumor without metastasis	3.2%	3.0%	3.2%	3.2%
Co-morbidity, peptic ulcer secluding bleeding	0.1%	0.1%	0.0%	0.0%
Co-morbidity, valvular disease	5.5%	6.6%	6.5%	7.5%
Co-morbidity, weight loss	5.5%	5.5%	7.9%	7.3%

Notes: MA indicates Medicare Advantage; TM indicates Traditional Medicare; PCP indicates primary care physician; PCSA indicates primary care service area; APR-DRG indicates All Patients Refined Diagnosis Related Groups.

<sup>a</sup> Authors' calculations of data from the Agency for Healthcare Research and Quality's (AHRQ) 2009 and 2014 Healthcare Cost and Utilization Project-State Inpatient Databases (HCUP) for New York, California, Florida, and Tennessee. Data are discharge-level records between January and November in each calendar year. Data include admissions for beneficiaries ages 65 and older.

<sup>b</sup> Rural-urban commuting area categories changed between 2009 and 2014. The excluded groups were urban (2009 data) and large metropolitan (2014 data).

**eAppendix Table 2: Readmission probability within 30 days, by model, enrollment in TM or MA, and year 2009 and 2014<sup>a</sup>**

	2009				2014			
	Unadjusted percentage	Adjusted percentage from propensity score model	Adjusted percentage from linear probability model (no fixed effects)	Adjusted percentage from linear probability model with hospital fixed effects	Unadjusted percentage	Adjusted percentage from propensity score model	Adjusted percentage from linear probability model (no fixed effects)	Adjusted percentage from linear probability model with hospital fixed effects
Traditional Medicare	15.12%	15.20%	15.14%	15.08%	14.23%	14.30%	14.26%	14.15%
Medicare Advantage	14.23%	14.40%	14.26%	14.43%	13.16%	13.30%	13.14%	13.37%
Difference	-0.89%	-0.80%	-0.88%	-0.64%	-1.06%	-1.00%	-1.12%	-0.78%
Change over time in MA/TM percentage differences					-0.18%	-0.20%	-0.24%	-0.14%
Robust standard errors					0.06%	0.18%	0.28%	0.13%
P-value					0.00	0.35	0.28	0.30

Notes: MA indicates Medicare Advantage; TM indicates Traditional Medicare.

<sup>a</sup> Authors' calculations of data from the Agency for Healthcare Research and Quality's (AHRQ) 2009 and 2014 Healthcare Cost and Utilization Project-State Inpatient Databases (HCUP) for New York, California, Florida, and Tennessee. Percentages are predicted probabilities of readmission within 30 days after an index admission. Data are discharge-level records between January and November in each calendar year. Data include admissions for beneficiaries ages 65 and older.

**eAppendix Table 3: Treatment equation and covariate balance results from inverse-probability weighted propensity score model, 2009<sup>a</sup>**

	Raw	Weighted					
Observations:	2752599	2752599					
Treatment (MA):	754364	1382840					
Control (TM):	1998235	1369759					
Variable	Treatment Equation			Covariate Balance			
	Coeff.	St. Error	P-value	Raw diff.	Wgthed diff.	Raw variance	Wgthed variance
Chronic conditions, 2-3	-0.028	0.008	0.001	0.034	0.000	1.064	1.000
Chronic conditions, 4-5	-0.072	0.008	0.000	-0.040	0.001	1.063	0.999
Female	-0.078	0.003	0.000	-0.043	0.000	1.012	1.000
Ages 75-84	0.009	0.003	0.008	0.041	-0.006	1.017	0.997
Ages 85+	-0.228	0.004	0.000	-0.118	-0.011	0.867	0.987
African-American	0.330	0.005	0.000	0.131	-0.003	1.425	0.991
Hispanic	0.175	0.005	0.000	0.101	-0.001	1.284	0.997
Other	-0.084	0.006	0.000	0.014	0.003	1.050	1.011
Zipcode income, \$40,000-49,999	0.042	0.004	0.000	-0.032	0.012	0.962	1.014
Zipcode income, \$50,000-65,999	0.046	0.004	0.000	0.054	-0.005	1.061	0.994
Zipcode income, \$66,000+	-0.053	0.004	0.000	0.028	-0.018	1.029	0.981
PCPs per 100K residents in PCSA, 5-14	0.092	0.022	0.000	-0.129	0.014	0.504	1.069
PCPs per 100K residents in PCSA, 15-57	0.084	0.021	0.000	-0.177	0.015	0.705	1.028
PCPs per 100K residents in PCSA, 58+	0.270	0.021	0.000	0.232	-0.023	0.692	1.032
Pop. density: 1000s/sq. mile in PCSA	0.000	0.000	0.000	0.094	-0.007	1.159	0.956
Suburban	0.152	0.008	0.000	-0.004	0.000	0.983	1.001
Large town	-0.657	0.008	0.000	-0.208	0.030	0.420	1.107
Small town	-0.708	0.013	0.000	-0.145	0.009	0.364	1.050
Rural/isolated	-0.779	0.020	0.000	-0.101	0.007	0.330	1.065
APR-DRG risk of mortality, moderate	-0.040	0.004	0.000	-0.001	-0.006	1.000	0.997
APR-DRG risk of mortality, major	-0.122	0.006	0.000	-0.050	0.002	0.942	1.003
APR-DRG risk of mortality, extreme	-0.124	0.009	0.000	-0.046	0.006	0.886	1.017
APR-DRG disease severity, moderate	-0.094	0.005	0.000	0.019	-0.002	1.009	0.999
APR-DRG disease severity, major	-0.145	0.006	0.000	-0.043	0.000	0.971	1.000
APR-DRG disease severity, extreme	-0.219	0.009	0.000	-0.050	0.006	0.881	1.015
Admission type, emergency	0.275	0.004	0.000	0.103	-0.012	0.892	1.013
Admission type, urgent	0.083	0.007	0.000	-0.101	0.015	0.716	1.047
Admission type, other	0.246	0.043	0.000	-0.003	0.000	0.913	0.992
State, California	0.610	0.007	0.000	0.187	-0.014	1.100	0.991
State, Florida	0.268	0.007	0.000	-0.076	-0.007	0.935	0.994
State, New York	0.187	0.007	0.000	-0.037	0.004	0.959	1.004
Teaching hospital	0.398	0.003	0.000	0.203	-0.009	1.084	0.995
Hospital bed size, medium	0.318	0.006	0.000	0.094	-0.010	1.119	0.988
Hospital bed size, large	0.085	0.006	0.000	-0.052	0.007	1.041	0.994
APRDRG weight	-0.035	0.002	0.000	-0.042	0.002	0.992	1.040
Co-morbidity, HIV/AIDS	-0.405	0.083	0.000	-0.003	0.000	0.860	1.005
Co-morbidity, alcohol abuse	0.055	0.010	0.000	0.018	0.000	1.135	0.999
Co-morbidity, anemia/iron deficiency	-0.100	0.004	0.000	-0.047	0.003	0.942	1.003
Co-morbidity, rheumatoid arthritis	-0.018	0.008	0.030	-0.011	-0.002	0.940	0.989
Co-morbidity, chronic bloos loss	-0.043	0.011	0.000	-0.007	0.001	0.944	1.009
Co-morbidity, congestive heart failure	-0.044	0.004	0.000	-0.049	0.000	0.901	1.001

Variable	Treatment Equation			Covariate Balance			
	Coeff.	St. Error	P-value	Raw diff.	Wghted diff.	Raw variance	Wghted variance
Co-morbidity, chronic pulmonary	-0.035	0.003	0.000	-0.047	0.004	0.940	1.005
Co-morbidity, coagulopathy	0.018	0.007	0.010	-0.014	0.003	0.943	1.015
Co-morbidity, depression	-0.129	0.005	0.000	-0.058	0.004	0.847	1.011
Co-morbidity, diabetes, uncomplicated	-0.120	0.003	0.000	-0.054	0.012	0.937	1.014
Co-morbidity, diabetes, w/complications	0.405	0.006	0.000	0.137	-0.006	1.609	0.978
Co-morbidity, drug abuse	-0.185	0.022	0.000	-0.003	0.003	0.957	1.044
Co-morbidity, hypertension	0.124	0.003	0.000	0.072	-0.003	0.938	1.002
Co-morbidity, hypothyroidism	-0.022	0.004	0.000	-0.036	-0.001	0.934	0.998
Co-morbidity, liver disease	-0.044	0.011	0.000	0.003	0.000	1.024	1.000
Co-morbidity, lymphoma	-0.020	0.013	0.138	-0.007	-0.001	0.941	0.988
Co-morbidity, fluid/electrolyte dis.	-0.102	0.003	0.000	-0.085	0.007	0.914	1.007
Co-morbidity, metastatic cancer	0.045	0.009	0.000	-0.002	0.000	0.991	1.001
Co-morbidity, other neurological dis.	-0.222	0.005	0.000	-0.087	0.001	0.790	1.002
Co-morbidity, obesity	0.160	0.005	0.000	0.058	0.000	1.203	0.999
Co-morbidity, paralysis	-0.150	0.008	0.000	-0.021	-0.001	0.893	0.997
Co-morbidity, peripheral vascular dis.	0.137	0.005	0.000	0.047	-0.007	1.131	0.981
Co-morbidity, psychoses	-0.062	0.008	0.000	-0.003	-0.006	0.984	0.968
Co-morbidity, pulmonary circulation dis.	0.073	0.009	0.000	-0.011	0.001	0.936	1.009
Co-morbidity, renal failure	0.087	0.004	0.000	0.040	-0.004	1.068	0.994
Co-morbidity, solid tumor w/o metastatis	0.093	0.008	0.000	0.012	-0.001	1.069	0.993
Co-morbidity, peptic ulcer	-0.077	0.060	0.196	-0.001	0.000	0.939	1.002
Co-morbidity, valvular disease	-0.091	0.006	0.000	-0.043	-0.002	0.853	0.994
Co-morbidity, weight loss	0.105	0.006	0.000	-0.001	-0.007	0.998	0.972
Constant	-1.782	0.024	0.000				

**eAppendix Table 4: Treatment equation and covariate balance results from inverse-probability weighted propensity score model, 2014<sup>a</sup>**

	Raw	Weighted					
Observations:	2705716	2705716					
Treatment (MA):	912537	1356270					
Control (TM):	1793179	1349446					
Variable	Treatment Equation			Covariate Balance			
	Coeff.	St. Error	P-value	Raw diff.	Wghted diff.	Raw variance	Wghted variance
Chronic conditions, 2-3	-0.009	0.009	0.329	0.016	-0.003	1.040	0.992
Chronic conditions, 4-5	-0.026	0.009	0.004	0.003	-0.002	1.004	0.998
Chronic conditions, 6+	-0.061	0.009	0.000	-0.017	0.004	1.010	0.998
Female	-0.011	0.003	0.000	-0.023	0.000	1.005	1.000
Ages 75-84	-0.054	0.003	0.000	0.030	-0.001	1.017	0.999
Ages 85+	-0.292	0.004	0.000	-0.136	-0.005	0.854	0.994
African-American	0.314	0.005	0.000	0.133	-0.002	1.438	0.994
Hispanic	0.404	0.004	0.000	0.180	-0.005	1.489	0.988
Other	-0.064	0.005	0.000	-0.015	-0.006	0.954	0.980
Zipcode income, \$40,000-49,999	-0.103	0.004	0.000	-0.027	0.003	0.973	1.003
Zipcode income, \$50,000-65,999	-0.131	0.004	0.000	0.002	-0.002	1.002	0.997
Zipcode income, \$66,000+	-0.251	0.004	0.000	-0.019	-0.003	0.976	0.997
PCPs per 100K residents in PCSA, 5-14	-0.407	0.031	0.000	0.004	0.000	1.039	1.001
PCPs per 100K residents in PCSA, 15-57	-0.364	0.028	0.000	0.023	0.003	1.018	1.002
PCPs per 100K residents in PCSA, 58+	-0.481	0.028	0.000	-0.024	-0.003	1.018	1.003
Pop. density: 1000s/sq. mile in PCSA	0.000	0.000	0.000	0.103	-0.007	1.317	1.044
Small metro	-0.533	0.003	0.000	-0.208	0.007	0.785	1.008
Micropolitan	-0.952	0.009	0.000	-0.146	0.007	0.458	1.032
Other rural/urban	-1.187	0.011	0.000	-0.129	0.008	0.401	1.049
APR-DRG risk of mortality, moderate	-0.049	0.004	0.000	-0.005	-0.001	0.997	1.000
APR-DRG risk of mortality, major	-0.048	0.006	0.000	-0.043	0.002	0.962	1.002
APR-DRG risk of mortality, extreme	0.012	0.008	0.163	-0.030	0.003	0.924	1.007
APR-DRG disease severity, moderate	-0.110	0.004	0.000	0.010	-0.002	1.004	0.999
APR-DRG disease severity, major	-0.177	0.006	0.000	-0.036	0.003	0.977	1.002
APR-DRG disease severity, extreme	-0.310	0.009	0.000	-0.039	0.003	0.905	1.007
Admission type, emergency	0.168	0.004	0.000	0.049	-0.006	0.939	1.007
Admission type, urgent	-0.006	0.007	0.418	-0.061	0.013	0.795	1.046
Admission type, other	0.167	0.029	0.000	0.000	0.000	1.004	1.001
State, California	-0.098	0.006	0.000	0.032	-0.025	1.021	0.983
State, Florida	-0.074	0.006	0.000	-0.013	0.002	0.991	1.001
State, New York	-0.019	0.007	0.003	0.017	0.017	1.021	1.020
Teaching hospital	0.214	0.003	0.000	0.178	-0.004	0.937	1.001
Hospital bed size, medium	0.099	0.005	0.000	0.027	-0.003	1.025	0.997
Hospital bed size, large	0.011	0.004	0.008	-0.019	0.005	1.007	0.998
APRDRG weight	-0.049	0.002	0.000	-0.044	0.006	0.986	1.070
Co-morbidity, HIV/AIDS	-0.291	0.064	0.000	-0.001	0.000	0.964	1.021
Co-morbidity, alcohol abuse	0.065	0.009	0.000	0.016	-0.001	1.105	0.993
Co-morbidity, anemia/iron deficiency	-0.149	0.003	0.000	-0.054	0.003	0.937	1.003
Co-morbidity, rheumatoid arthritis	-0.047	0.007	0.000	-0.017	0.000	0.919	1.000
Co-morbidity, chronic bloos loss	-0.057	0.012	0.000	-0.008	0.000	0.933	1.002
Co-morbidity, congestive heart failure	-0.094	0.004	0.000	-0.050	0.003	0.904	1.007

Variable	Treatment Equation			Covariate Balance			
	Coeff.	St. Error	P-value	Raw diff.	Wghted diff.	Raw variance	Wghted variance
Co-morbidity, chronic pulmonary	-0.017	0.003	0.000	-0.023	0.003	0.973	1.004
Co-morbidity, coagulopathy	0.084	0.006	0.000	0.003	0.000	1.011	1.001
Co-morbidity, depression	-0.183	0.005	0.000	-0.080	0.006	0.814	1.016
Co-morbidity, diabetes, uncomplicated	-0.068	0.003	0.000	-0.027	0.006	0.970	1.006
Co-morbidity, diabetes, w/complications	0.363	0.005	0.000	0.153	-0.002	1.607	0.995
Co-morbidity, drug abuse	-0.107	0.013	0.000	-0.004	-0.001	0.962	0.995
Co-morbidity, hypertension	0.076	0.003	0.000	0.057	0.000	0.942	1.001
Co-morbidity, hypothyroidism	-0.043	0.004	0.000	-0.052	0.001	0.918	1.002
Co-morbidity, liver disease	-0.016	0.008	0.051	0.011	0.000	1.066	0.997
Co-morbidity, lymphoma	-0.041	0.012	0.001	-0.011	-0.001	0.912	0.992
Co-morbidity, fluid/electrolyte dis.	-0.099	0.003	0.000	-0.083	0.006	0.935	1.005
Co-morbidity, metastatic cancer	-0.009	0.008	0.269	-0.007	-0.001	0.961	0.993
Co-morbidity, other neurological dis.	-0.198	0.005	0.000	-0.082	0.002	0.809	1.006
Co-morbidity, obesity	0.168	0.004	0.000	0.075	-0.001	1.199	0.997
Co-morbidity, paralysis	-0.188	0.008	0.000	-0.031	0.000	0.853	1.001
Co-morbidity, peripheral vascular dis.	0.651	0.004	0.000	0.222	-0.003	1.610	0.992
Co-morbidity, psychoses	0.121	0.006	0.000	0.041	-0.003	1.198	0.988
Co-morbidity, pulmonary circulation dis.	0.115	0.008	0.000	0.001	0.000	1.007	0.999
Co-morbidity, renal failure	0.043	0.004	0.000	0.033	0.000	1.045	1.001
Co-morbidity, solid tumor w/o metastatis	0.041	0.008	0.000	0.002	0.000	1.009	1.001
Co-morbidity, peptic ulcer	0.071	0.063	0.259	0.001	0.000	1.064	0.997
Co-morbidity, valvular disease	-0.067	0.005	0.000	-0.039	0.000	0.878	1.001
Co-morbidity, weight loss	0.188	0.005	0.000	0.023	-0.005	1.076	0.983
Constant	0.021	0.030	0.490				

**eAppendix Table 5: Estimates of probability of 30-day readmission from linear probability model with hospital fixed effects, 2009<sup>a</sup>**

Variable	Coeff.	St. Error	T-value	P-value
Medicare Advantage	-0.006	0.001	-9.010	0.000
Chronic conditions, 2-3	0.002	0.001	1.360	0.174
Chronic conditions, 4-5	0.010	0.001	8.710	0.000
Female	-0.005	0.001	-9.370	0.000
Ages 75-84	0.000	0.001	0.680	0.494
Ages 85+	-0.005	0.001	-6.000	0.000
African-American	0.008	0.001	7.500	0.000
Hispanic	0.002	0.001	1.810	0.071
Other	-0.009	0.001	-7.880	0.000
Zipcode income, \$40,000-49,999	-0.002	0.001	-2.410	0.016
Zipcode income, \$50,000-65,999	-0.004	0.001	-3.810	0.000
Zipcode income, \$66,000+	-0.006	0.001	-5.770	0.000
PCPs per 100K residents in PCSA, 5-14	0.003	0.002	1.360	0.175
PCPs per 100K residents in PCSA, 15-57	0.003	0.003	1.340	0.182
PCPs per 100K residents in PCSA, 58+	0.005	0.003	2.040	0.042
Pop. density: 1000s/sq. mile in PCSA	0.000	0.000	-2.830	0.005
Suburban	0.000	0.001	0.180	0.854
Large town	0.000	0.002	-0.280	0.778
Small town	-0.005	0.002	-2.270	0.024
Rural/isolated	-0.004	0.002	-1.810	0.070
APR-DRG risk of mortality, moderate	0.017	0.001	24.910	0.000
APR-DRG risk of mortality, major	0.026	0.001	24.480	0.000
APR-DRG risk of mortality, extreme	-0.014	0.001	-9.440	0.000
APR-DRG disease severity, moderate	0.010	0.001	15.210	0.000
APR-DRG disease severity, major	0.030	0.001	33.530	0.000
APR-DRG disease severity, extreme	0.030	0.002	19.480	0.000
Admission type, emergency	0.001	0.001	2.180	0.029
Admission type, urgent	0.001	0.001	0.870	0.384
Admission type, other	-0.017	0.007	-2.370	0.018
APRDRG weight	0.034	0.000	98.680	0.000
Co-morbidity, HIV/AIDS	0.012	0.013	0.910	0.365
Co-morbidity, alcohol abuse	-0.004	0.002	-2.610	0.009
Co-morbidity, anemia/iron deficiency	0.021	0.001	33.750	0.000
Co-morbidity, rheumatoid arthritis	0.010	0.001	7.480	0.000
Co-morbidity, chronic bloos loss	0.020	0.002	10.930	0.000
Co-morbidity, congestive heart failure	0.018	0.001	22.550	0.000
Co-morbidity, chronic pulmonary	0.016	0.001	26.930	0.000
Co-morbidity, coagulopathy	-0.006	0.001	-5.140	0.000
Co-morbidity, depression	0.007	0.001	10.110	0.000
Co-morbidity, diabetes, uncomplicated	0.010	0.001	15.410	0.000
Co-morbidity, diabetes, w/complications	0.019	0.001	15.140	0.000
Co-morbidity, drug abuse	0.025	0.004	6.620	0.000
Co-morbidity, hypertension	-0.003	0.001	-5.790	0.000
Co-morbidity, hypothyroidism	0.001	0.001	1.050	0.294



**eAppendix Table 5: Estimates of probability of 30-day readmission from linear probability model with hospital fixed effects, 2009<sup>a</sup>**

Variable	Coeff.	St. Error	T-value	P-value
Co-morbidity, liver disease	0.013	0.002	6.890	0.000
Co-morbidity, lymphoma	0.037	0.002	15.220	0.000
Co-morbidity, fluid/electrolyte dis.	0.003	0.001	5.400	0.000
Co-morbidity, metastatic cancer	0.025	0.002	15.920	0.000
Co-morbidity, other neurological dis.	0.001	0.001	1.010	0.314
Co-morbidity, obesity	-0.004	0.001	-4.530	0.000
Co-morbidity, paralysis	0.004	0.001	2.920	0.004
Co-morbidity, peripheral vascular dis.	0.011	0.001	12.690	0.000
Co-morbidity, psychoses	0.016	0.001	11.690	0.000
Co-morbidity, pulmonary circulation dis.	0.001	0.001	1.000	0.318
Co-morbidity, renal failure	0.028	0.001	38.070	0.000
Co-morbidity, solid tumor w/o metastatis	0.024	0.001	17.490	0.000
Co-morbidity, peptic ulcer	0.004	0.009	0.440	0.663
Co-morbidity, valvular disease	0.003	0.001	2.620	0.009
Co-morbidity, weight loss	0.012	0.001	10.690	0.000
Constant	0.091	0.003	29.290	0.000

Notes: MA indicates Medicare Advantage; TM indicates Traditional Medicare; PCP indicates primary care physician; PCSA indicates primary care service area; APR-DRG indicates All Patients Refined Diagnosis Related Groups.

<sup>a</sup> Authors' calculations of data from the Agency for Healthcare Research and Quality's (AHRQ) 2009 Healthcare Cost and Utilization Project-State Inpatient Databases (HCUP) for New York, California, Florida, and Tennessee. Data are discharge-level records between January and November. Data include admissions for beneficiaries ages 65 and older.

**eAppendix Table 6: Estimates of probability of 30-day readmission from linear probability model with hospital fixed effects, 2014<sup>a</sup>**

Variable	Coeff.	St. Error	T-value	P-value
Medicare Advantage	-0.008	0.002	-5.130	0.000
Chronic conditions, 2-3	0.002	0.001	1.560	0.120
Chronic conditions, 4-5	0.006	0.001	4.640	0.000
Chronic conditions, 6+	0.016	0.002	10.930	0.000
Female	-0.005	0.001	-5.380	0.000
Ages 75-84	-0.004	0.001	-5.380	0.000
Ages 85+	-0.013	0.001	-11.950	0.000
African-American	0.005	0.001	4.040	0.000
Hispanic	-0.001	0.001	-0.710	0.480
Other	-0.007	0.001	-8.140	0.000
Zipcode income, \$40,000-49,999	-0.002	0.001	-2.630	0.009
Zipcode income, \$50,000-65,999	-0.005	0.001	-5.510	0.000
Zipcode income, \$66,000+	-0.006	0.001	-5.950	0.000
PCPs per 100K residents in PCSA, 5-14	0.002	0.004	0.500	0.615
PCPs per 100K residents in PCSA, 15-57	0.005	0.003	1.470	0.141
PCPs per 100K residents in PCSA, 58+	0.005	0.003	1.560	0.119
Pop. density: 1000s/sq. mile in PCSA	0.000	0.000	0.250	0.799
Small metro	-0.005	0.002	-2.760	0.006
Micropolitan	-0.008	0.002	-3.600	0.000
Other rural/urban	-0.011	0.002	-4.360	0.000
APR-DRG risk of mortality, moderate	0.013	0.001	18.360	0.000
APR-DRG risk of mortality, major	0.021	0.001	19.750	0.000
APR-DRG risk of mortality, extreme	-0.022	0.001	-18.690	0.000
APR-DRG disease severity, moderate	0.008	0.001	11.960	0.000
APR-DRG disease severity, major	0.026	0.001	25.670	0.000
APR-DRG disease severity, extreme	0.024	0.002	13.460	0.000
Admission type, emergency	0.001	0.001	0.770	0.444
Admission type, urgent	-0.001	0.001	-0.710	0.479
Admission type, other	-0.015	0.005	-2.980	0.003
APRDRG weight	0.033	0.000	70.160	0.000
Co-morbidity, HIV/AIDS	0.024	0.015	1.630	0.105
Co-morbidity, alcohol abuse	-0.002	0.001	-1.340	0.181
Co-morbidity, anemia/iron deficiency	0.022	0.001	37.530	0.000
Co-morbidity, rheumatoid arthritis	0.007	0.001	5.890	0.000
Co-morbidity, chronic bloos loss	0.022	0.002	9.070	0.000
Co-morbidity, congestive heart failure	0.020	0.001	27.130	0.000
Co-morbidity, chronic pulmonary	0.015	0.001	20.750	0.000
Co-morbidity, coagulopathy	-0.001	0.001	-1.370	0.173
Co-morbidity, depression	0.005	0.001	6.450	0.000
Co-morbidity, diabetes, uncomplicated	0.008	0.000	19.000	0.000
Co-morbidity, diabetes, w/complications	0.015	0.001	11.600	0.000
Co-morbidity, drug abuse	0.024	0.002	10.120	0.000
Co-morbidity, hypertension	-0.003	0.001	-5.020	0.000
Co-morbidity, hypothyroidism	0.001	0.001	1.000	0.318

**eAppendix Table 6: Estimates of probability of 30-day readmission from linear probability model with hospital fixed effects, 2014<sup>a</sup>**

Variable	Coeff.	St. Error	T-value	P-value
Co-morbidity, liver disease	0.015	0.001	10.930	0.000
Co-morbidity, lymphoma	0.030	0.002	12.660	0.000
Co-morbidity, fluid/electrolyte dis.	0.004	0.000	8.870	0.000
Co-morbidity, metastatic cancer	0.029	0.002	15.230	0.000
Co-morbidity, other neurological dis.	-0.001	0.001	-1.760	0.080
Co-morbidity, obesity	-0.007	0.001	-8.920	0.000
Co-morbidity, paralysis	0.002	0.002	1.180	0.240
Co-morbidity, peripheral vascular dis.	0.011	0.001	12.850	0.000
Co-morbidity, psychoses	0.010	0.002	5.510	0.000
Co-morbidity, pulmonary circulation dis.	0.006	0.001	4.050	0.000
Co-morbidity, renal failure	0.023	0.001	25.960	0.000
Co-morbidity, solid tumor w/o metastatis	0.023	0.001	16.660	0.000
Co-morbidity, peptic ulcer	0.025	0.008	3.170	0.002
Co-morbidity, valvular disease	0.003	0.001	3.690	0.000
Co-morbidity, weight loss	0.012	0.001	8.630	0.000
Constant	0.086	0.004	21.790	0.000

Notes: MA indicates Medicare Advantage; TM indicates Traditional Medicare; PCP indicates primary care physician; PCSA indicates primary care service area; APR-DRG indicates All Patients Refined Diagnosis Related Groups.

<sup>a</sup> Authors' calculations of data from the Agency for Healthcare Research and Quality's (AHRQ) 2014 Healthcare Cost and Utilization Project-State Inpatient Databases (HCUP) for New York, California, Florida, and Tennessee. Data are discharge-level records between January and November. Data include admissions for beneficiaries ages 65 and older.