SUPPLEMENTAL MATERIAL

Outcome = In-hospital mortality	Adjusted OR (95% CI) – overall	Adjusted OR (95% CI) – HFrEF	Adjusted OR (95% CI) – HFbEF	Adjusted OR (95% Cl) – HFpEF
Midwest vs	0.64 (0.51, 0.80)	0.74 (0.61, 0.90)	0.86 (0.69, 1.08)	0.80 (0.67, 0.97)
Northeast	p=0001	p=0.003	p=0.20	p=0.02
South vs	0.87 (0.70, 1.09)	0.95 (0.77, 1.16)	1.07 (0.84, 1.35)	1.02 (0.83, 1.25)
Northeast	p=0.23	p=0.61	p=0.60	p=0.87
West vs	0.96 (0.78, 1.20)	1.05 (0.87, 1.27)	1.11 (0.86, 1.42)	0.93 (0.75, 1.15)
Northeast	p=0.74	p=0.62	P=0.42	p=0.50

Table S1. Risk-adjusted Inpatient Mortality by Ejection Fraction.

HFrEF= heart failure with reduced ejection fraction; HFbEF= heart failure with borderline ejection fraction; HFpEF= heart failure with reserved ejection fraction

Outcome = LOS (> 4 d vs <= 4 d)	Adjusted odds ratio (95% CI) – overall	Adjusted odds ratio (95% Cl) – HFrEF	Adjusted odds ratio (95% CI) – HFbEF	Adjusted odds ratio (95% Cl) – HFpEF
Midwest vs Northeast	0.70 (0.63, 0.78)	0.70 (0.63, 0.79)	0.69 (0.60, 0.79)	0.73 (0.65, 0.82)
Northeast	p<0.00001	p<0.0001	p<0.0001	p<0.0001
South vs	0.85 (0.76, 0.95)	0.87 (0.78, 0.98)	0.88 (0.77, 1.00)	0.88 (0.78, 0.99)
Northeast	p=0.005	p=0.023	p=0.053	p=0.03
West vs	0.72 (0.63, 0.82)	0.75 (0.65, 0.87)	0.69 (0.59, 0.80)	0.70 (0.61, 0.81)
Northeast	p<0.0001	p=0.0002	p<0.0001	p<0.0001

Table S2. Risk-adjusted Length of Stay by Ejection Fraction.

HFrEF= heart failure with reduced ejection fraction; HFbEF= heart failure with borderline ejection fraction; HFpEF= heart failure with reserved ejection fraction

	Overall (N=98808)	Northeast (N=31345)	Midwest (N=25606)	South (N=31242)	West (N=10615)	MW vs. NE (%)	S vs. NE (%)	W vs. NE (%)
High School Graduate (percentage)								
Median (Q1, Q3)	88.9	89.7	90.0	87.3	86.9	20.44	70.21	64.59
	(85.5,90.8)	(87.4,91.2)	(87.3,92.1)	(82.2,90.1)	(77.3,91.6)			
Median Household Income								
Median (Q1, Q3)	52171	56002	50014	48900	56911	44.01	64.54	5.80
	(45733,61890)	(50131,68333)	(44915,58226)	(41618,55413)	(51439,67190)			

	Northeast	Midwest	South	West
30-day Mortality (%)	5%	4.36%	4.57%	4.09%
30 day mortality	1	0.91	0.94	0.87 (0.79, 0.97
Unadjusted HR	[reference]	(0.85, 0.99)	(0.88, 1.01)	p=0.01
(95% CI)		p=0.02	p=0.10	
*Adjusted HR	1	1.08	1.11	1.02
(95% CI)	[reference]	(0.95, 1.22)	(0.99, 1.24)	(0.87, 1.19)
		p=0.23	p= 0.07	p= 0.82
**Adjusted HR	1	1.02	1.06	1.02
(95% CI)	[reference]	(0.91, 1.13)	(0.95, 1.18)	(0.87, 1.20)
(SES variables added)		p=0.77	p= 0.29	p= 0.78
30-day all cause re-admission (%)	17.06%	14.55%	15.67%	13.67%
Unadjusted HR	1	0.90	0.94	0.86
(95% CI)	[reference]	(0.86, 0.93)	(0.90, 0.98)	(0.81, 0.91)
		p<0.0001	p=0.001	p<0.0001
*Adjusted HR	1	0.92	0.93	0.90
(95% CI)	[reference]	(0.85, 0.99)	(0.86, 1.01)	(0.80, 1.00)
		P=0.03	p=0.08	p=0.05
**Adjusted HR	1	0.93	0.91	0.87
(95% CI)	[reference]	(0.86, 1.00)	(0.83, 0.99)	(0.78 <i>,</i> 0.97)
(SES variables added)		P=0.06	p=0.04	p=0.01

Table S4. Fee for Service Medicare Subgroup: 30 day outcomes without and with SES variables added as covariates.

*Factors for adjustment included: age, sex, race, anemia, ischemic history, CVA/TIA, diabetes, hyperlipidemia, hypertension, COPD/asthma, PVD, renal insufficiency, cigarette smoking in the past year, vital signs and laboratory studies at admission (systolic blood pressure, heart rate, sodium, BUN, LVEF) and hospital characteristics

** Socioeconomic factors (median household income and percentage of people with at least a high school diploma) at the county level added to the multivariable model.