

## **SUPPLEMENTAL MATERIAL**

**Supplementary Table. Regression Results—CABG 60-Day Readmission and ED Revisit.**

	Readmission					ED Revisit				
	Main Model	30-Day Window	90-Day Window	Emergent Surgery	Survival >3 Days	Main Model	30-Day Window	90-Day Window	Emergent Surgery	Survival >3 Days
<b>Patient variables</b>										
Proportion of patients from outside the CBSA	0.12+ (0.06)	0.15* (0.07)	0.11+ (0.06)	0.11+ (0.06)	0.12+ (0.06)	0.14* (0.06)	0.15* (0.07)	0.12* (0.06)	0.14* (0.06)	0.14* (0.06)
Charlson score (mean)	0.00 (0.03)	0.03 (0.03)	0.01 (0.02)	0.02 (0.03)	0.01 (0.03)	0.00 (0.02)	0.01 (0.03)	0.01 (0.02)	0.02 (0.02)	0.01 (0.02)
Proportion surviving >3 days post-surgery					-0.38+ (0.21)					-0.29 (0.19)
Proportion requiring emergent surgery				-0.19*** (0.06)					-0.20*** (0.06)	
Proportion living below federal poverty line (mean)†	-2.95*** (0.41)	-2.68*** (0.43)	-3.05*** (0.41)	-2.99*** (0.41)	-2.94*** (0.41)	-2.46*** (0.40)	-2.33*** (0.42)	-2.54*** (0.40)	-2.51*** (0.40)	-2.46*** (0.40)
Proportion with a bachelor's degree (mean)†	-1.61*** (0.41)	-1.60*** (0.42)	-1.62*** (0.41)	-1.66*** (0.41)	-1.61*** (0.41)	-1.25** (0.40)	-1.49*** (0.42)	-1.29** (0.40)	-1.30** (0.40)	-1.25** (0.40)
Proportion living in a rural area (mean)†	0.07 (0.09)	0.03 (0.10)	0.11 (0.09)	0.07 (0.09)	0.06 (0.10)	0.27** (0.09)	0.24* (0.10)	0.28** (0.09)	0.27** (0.09)	0.27** (0.09)
<b>Hospital variables</b>										
Number of patients	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)	0.01*** (0.00)
Number of physicians	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Academic hospital	0.06* (0.03)	0.04 (0.03)	0.07** (0.03)	0.07* (0.03)	0.06* (0.03)	0.04 (0.03)	0.01 (0.03)	0.04+ (0.03)	0.04 (0.03)	0.04 (0.03)
Total resident population (in thousands, log)	-0.02 (0.03)	-0.01 (0.04)	-0.03 (0.03)	-0.02 (0.03)	-0.02 (0.03)	0.03 (0.03)	0.05 (0.04)	0.03 (0.03)	0.03 (0.03)	0.03 (0.03)
Total black population (in thousands, log)	0.05*** (0.01)	0.05*** (0.01)	0.05*** (0.01)	0.05*** (0.01)	0.05*** (0.01)	0.02 (0.01)	0.01 (0.01)	0.02 (0.01)	0.02 (0.01)	0.02 (0.01)
Total Hispanic population (in thousands, log)	-0.07*** (0.02)	-0.07*** (0.02)	-0.07*** (0.02)	-0.07*** (0.02)	-0.07*** (0.02)	-0.08*** (0.02)	-0.08*** (0.02)	-0.09*** (0.02)	-0.08*** (0.02)	-0.08*** (0.02)
Acute care hospital beds per 1,000 residents	-0.01 (0.03)	-0.01 (0.03)	-0.01 (0.03)	-0.01 (0.03)	-0.01 (0.03)	-0.07** (0.03)	-0.08** (0.03)	-0.07** (0.03)	-0.07** (0.03)	-0.07** (0.03)
PCPs per 100,000 residents	-0.00* (0.00)	-0.00+ (0.00)	-0.00* (0.00)	-0.00* (0.00)	-0.00* (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Medical specialists per 100,000 residents	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Surgeons per 100,000 residents	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
<b>Network variables</b>										
Teamwork	-1.49*** (0.18)	-1.45*** (0.18)	-1.47*** (0.17)	-1.50*** (0.17)	-1.50*** (0.18)	-1.51*** (0.17)	-1.54*** (0.18)	-1.44*** (0.17)	-1.51*** (0.17)	-1.51*** (0.17)
<b>Other variables</b>										
Year = 2009	-0.16*** (0.02)	-0.17*** (0.02)	-0.15*** (0.02)	-0.16*** (0.02)	-0.16*** (0.02)	-0.11*** (0.02)	-0.12*** (0.02)	-0.11*** (0.02)	-0.12*** (0.02)	-0.11*** (0.02)
Year = 2010	-0.37*** (0.02)	-0.39*** (0.02)	-0.39*** (0.02)	-0.38*** (0.02)	-0.37*** (0.02)	-0.31*** (0.02)	-0.32*** (0.02)	-0.33*** (0.02)	-0.32*** (0.02)	-0.31*** (0.02)
Imputed	-2.59*** (0.34)	-2.73*** (0.40)	-2.34*** (0.29)	-2.62*** (0.35)	-2.57*** (0.34)	-2.18*** (0.27)	-2.31*** (0.29)	-2.13*** (0.25)	-2.21*** (0.27)	-2.17*** (0.27)
Constant	4.11*** (0.34)	3.93*** (0.35)	4.17*** (0.33)	4.21*** (0.34)	4.13*** (0.34)	3.88*** (0.33)	3.76*** (0.34)	3.81*** (0.33)	3.98*** (0.33)	3.89*** (0.33)
Observations (Hospitals X Year)	3339.00	3339.00	3339.00	3339.00	3339.00	3339.00	3339.00	3339.00	3339.00	3339.00
Hospitals	1141.00	1141.00	1141.00	1141.00	1141.00	1141.00	1141.00	1141.00	1141.00	1141.00
Log likelihood	-9632	-8905.5	-9994.3	-9626.2	-9630	-10407	-9703	-10772.7	-10400.7	-10406

Standard errors in parentheses

+ p<0.1, \* p<0.05, \*\* p<0.01, \*\*\* p<0.001

† Estimated using levels found in patients' home zip codes

Abbreviations: CABG, coronary artery bypass grafting; CBSA, core-based statistical area; ED, emergency department; PCP, primary care physician