

**Appendix B. Estimated Odds Ratios of Quality Rating and Ranking in Sub-Domains**

	Overall Rating	Mortality	Safety	Readmission	Patient Experience	Effectiveness	Timeliness	Imaging Efficiency
<b>Minority Population Percentage (ref: Low Minority Population Percentage Group)</b>								
Intermediate	0.72** (0.58,0.90)	1.08 (0.85,1.39)	0.78** (0.62,0.99)	0.93 (0.73,1.18)	0.68** (0.54,0.86)	0.79 (0.56,1.10)	0.69** (0.54,0.87)	1.02 (0.80,1.30)
High	0.52** (0.40,0.69)	2.02** (1.49,2.74)	0.72** (0.56,0.94)	0.57** (0.43,0.76)	0.50** (0.37,0.67)	0.58* (0.37,0.90)	0.34** (0.25,0.46)	0.94 (0.67,1.33)
<b>Household Income (ref: High Income Group)</b>								
Low	0.67* (0.49,0.91)	0.62* (0.40,0.96)	0.86 (0.67,1.11)	0.82 (0.60,1.11)	0.85 (0.65,1.11)	0.61* (0.40,0.93)	1.15 (0.84,1.58)	0.76 (0.52,1.10)
Intermediate	0.76* (0.60,0.98)	0.53** (0.40,0.71)	0.90 (0.73,1.12)	1.07 (0.83,1.37)	0.93 (0.74,1.16)	0.78 (0.51,1.20)	1.06 (0.83,1.35)	0.89 (0.67,1.20)
<b>Age 25 to 64 Population Pct (ref: High 25 to 64 Population Percentage Group)</b>								
Low	1.05 (0.85,1.29)	0.49** (0.36,0.66)	1.04 (0.86,1.27)	1.42** (1.12,1.79)	1.20 (0.94,1.52)	1.10 (0.70,1.12)	0.99 (0.73,1.33)	0.79 (0.59,1.06)
Intermediate	1.07 (0.86,1.34)	0.54** (0.40,0.73)	0.87 (0.71,1.06)	1.25 (0.98,1.58)	1.53** (1.20,1.95)	1.43 (0.97,2.12)	1.04 (0.80,1.36)	0.99 (0.75,1.32)
<b>Education (ref: High 25 with College Degree)</b>								
Low	0.66** (0.51,0.85)	1.09 (0.81,1.47)	0.90 (0.69,1.17)	0.74* (0.55,1.00)	0.47** (0.36,0.62)	0.71 (0.45,1.13)	0.82 (0.60,1.10)	0.99 (0.72,1.35)
Intermediate	0.53** (0.41,0.67)	1.02 (0.76,1.37)	0.72** (0.58,0.90)	0.64** (0.49,0.83)	0.52** (0.42,0.65)	0.80 (0.55,1.18)	0.78 (0.60,1.02)	0.85 (0.62,1.17)
<b>Access (ref: High Number of Hospitals in Referral Region Group)</b>								
low	1.10 (0.87,1.39)	0.80 (0.58,1.10)	1.13 (0.91,1.41)	1.23 (0.96,1.57)	1.12 (0.86,1.45)	1.04 (0.74,1.46)	1.06 (0.76,1.46)	0.96 (0.72,1.27)
Intermediate	1.05 (0.83,1.33)	0.84 (0.63,1.11)	1.05 (0.87,1.28)	1.02 (0.79,1.31)	1.03 (0.81,1.31)	1.33 (0.88,2.00)	0.78 (0.56,1.08)	1.08 (0.79,1.47)
<b>Dual Eligible (ref: Low Dual Eligible Percentage Group)</b>								
Intermediate	0.97 (0.78,1.21)	0.93 (0.70,1.25)	0.92 (0.76,1.12)	1.04 (0.81,1.33)	1.00 (0.80,1.25)	0.92 (0.64,1.33)	1.33* (1.03,1.71)	0.87 (0.68,1.11)
High	0.77* (0.59,1.00)	1.14 (0.78,1.67)	0.88 (0.70,1.11)	0.71* (0.52,0.97)	0.83 (0.64,1.09)	0.92 (0.61,1.40)	0.86 (0.62,1.20)	0.92 (0.68,1.25)
<b>Rural-Urban Designation (ref: Urban Hospitals)</b>								
Rural	1.09 (0.89,1.34)	1.07 (0.85,1.36)	1.20 (0.96,1.51)	1.08 (0.86,1.35)	1.40** (1.10,1.79)	1.15 (0.79,1.65)	1.60** (1.25,2.05)	0.94 (0.73,1.22)
<b>Geographic Region (ref: Midwest)</b>								
Northeast	0.37** (0.25,0.56)	1.21 (0.77,1.88)	0.76* (0.58,0.99)	0.41** (0.28,0.59)	0.34** (0.23,0.49)	0.54* (0.30,0.96)	0.13** (0.07,0.25)	0.92 (0.63,1.34)
South	0.68* (0.51,0.91)	0.70* (0.50,1.00)	0.84 (0.67,1.05)	0.86 (0.62,1.17)	0.70* (0.53,0.93)	0.85 (0.56,1.28)	0.41** (0.28,0.59)	0.82 (0.58,1.15)
West	0.69* (0.49,0.97)	0.81 (0.56,1.19)	1.14 (0.89,1.46)	1.54* (1.04,2.30)	0.38** (0.26,0.56)	0.45** (0.30,0.70)	0.22** (0.15,0.34)	1.02 (0.77,1.37)
<b>Ownership (ref: For-Profit)</b>								
Not-For-Profit	2.10** (1.72,2.57)	1.09 (0.87,1.37)	1.04 (0.83,1.30)	2.32** (1.90,2.83)	2.79** (2.25,3.45)	0.90 (0.64,1.28)	0.58** (0.46,0.73)	1.58** (1.26,1.99)
Governmental	1.34* (1.05,1.71)	0.84 (0.62,1.12)	0.94 (0.72,1.23)	1.64** (1.27,2.11)	2.07** (1.61,2.67)	0.50** (0.33,0.76)	0.48** (0.35,0.66)	0.95 (0.71,1.28)
<b>Teaching Status (ref: Non-Teaching)</b>								
Teaching	0.69** (0.57,0.84)	0.97 (0.77,1.21)	0.78** (0.66,0.93)	0.89 (0.74,1.08)	0.77* (0.62,0.94)	0.70* (0.50,0.98)	0.63** (0.51,0.79)	0.99 (0.79,1.24)
<b>Hospital Size (ref: Small)</b>								
Big	0.60** (0.49,0.73)	1.09 (0.83,1.41)	0.91 (0.75,1.10)	0.78* (0.64,0.95)	0.47** (0.38,0.58)	1.27 (0.96,1.67)	0.24** (0.22,0.35)	1.96** (1.53,2.50)

All regressions also adjust for hospital ownership, teaching status, hospital size, and the number of hospitals available in each Health Referral Region.

\* and \*\* denotes statistically significant at 5% (P<0.05) and 1% (P<0.01) levels.

Standard errors are clustered at Health Referral Regions.

Estimated using multinomial logistic regression model.

95% confidence intervals are reported in brackets.