**Supplemental Table 5**. Is there an association between Leapfrog Safe Practices Score (SPS) and penalization for excessive readmission or hospital-acquired conditions? Odds ratios and 95% confidence intervals from binary logistic regression, by SPS measure

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **#1: Leadership** | **#2: Feedback** | **#3: Training** | **#4: Risks & Hazards** | **#19: Hand hygiene** | **Total SPS** |
| **HOSPITAL READMISSION REDUCTION PROGRAM (HRRP) (N=1,098)** |  |  |  |
| **SAFE PRACTICES SCORE MEASURE (standardized)** | 0.926(0.78, 1.11) | 1.030(0.88, 1.21) | 1.022(0.87, 1.20) | 0.962(0.81, 1.14) | 0.928(0.78, 1.10) | 0.967(0.82, 1.15) |
| **Teaching hospital?** *(Ref=No)* | 3.124\*\*(1.58, 6.18) | 3.055\*\*(1.54, 6.04) | 3.060\*\*(1.55, 6.05) | 3.104\*\*(1.57, 6.14) | 3.122\*\*(1.58, 6.18) | 3.109\*\*(1.57, 6.16) |
| **Bed size** *(Ref=<50)* |  |  |  |  |  |  |
| 50-200 | 0.715(0.21, 2.46) | 0.711(0.21, 2.44) | 0.710(0.21, 2.44) | 0.715(0.21, 2.46) | 0.724(0.21, 2.49) | 0.715(0.21, 2.46) |
| >200 | 0.493(0.15, 1.67) | 0.488(0.14, 1.65) | 0.486(0.14, 1.64) | 0.491(0.15, 1.66) | 0.496(0.15, 1.68) | 0.491(0.15, 1.66) |
| **Ownership** *(Ref=Public)* |  |  |  |  |  |  |
| Private, not for profit | 0.517(0.24, 1.11) | 0.512(0.24, 1.10) | 0.762(0.24, 1.09) | 0.511(0.24, 1.09) | 0.516(0.24, 1.11) | 0.513(0.24, 1.10) |
| Private, for profit | 1.349(0.56, 3.23) | 1.327(0.56, 3.17) | 1.319(0.55, 3.15) | 1.330(0.56, 3.18) | 1.350(0.56, 3.23) | 1.332(0.56, 3.18) |
| **Safety net hospital?** | 1.855(0.99, 3.48) | 1.860(0.99, 3.49) | 1.857(0.99, 3.48) | 1.845(0.98, 3.46) | 1.837(0.98, 3.44) | 1.846(0.99, 3.46) |
| **BIC** | 984.4 | 985.0 | 985.1 | 984.9 | 984.4 | 985.0 |
| **HOSPITAL ACQUIRED CONDITIONS REDUCTION PROGRAM (HACRP) (N=1,095)** |  |  |  |
| **SAFE PRACTICES SCORE MEASURE (standardized)** | 1.019(0.88, 1.17) | 0.870\*(0.76, 0.97) | 0.939(0.82, 1.07) | 0.930(0.82, 1.06) | 1.056(0.92, 1.22) | 0.971(0.85, 1.11) |
| **Teaching hospital?** *(Ref=No)* | 2.663\*\*\*(1.83, 3.88) | 2.777\*\*\*(1.90, 4.06) | 2.723\*\*\*(1.87, 3.98) | 2.721\*\*\*(1.87, 3.97) | 2.645\*\*\*(1.81, 3.86) | 2.699\*\*\*(1.85, 3.94) |
| **Bed size** *(Ref=<50)* |  |  |  |  |  |  |
| 50-200 | 3.823(0.89, 16.43) | 3.917(0.91, 16.90) | 3.834(0.89, 16.48) | 3.863(0.90, 16.60) | 3.752(0.87, 16.13) | 3.848(0.90, 16.54) |
| >200 | 5.314\*(1.25, 22.66) | 5.444\*(1.27, 23.29) | 5.352\*(1.26, 22.81) | 5.414\*(1.27, 23.08) | 5.219\*(1.22, 22.26) | 5.372\*(1.26, 22.91) |
| **Ownership** *(Ref=Public)* |  |  |  |  |  |  |
| Private, not for profit | 0.829(0.52, 1.33) | 0.832(0.52, 1.34) | 0.838(0.52, 1.35) | 0.830(0.52, 1.33) | 0.826(0.51, 1.33) | 0.834(0.52, 1.34) |
| Private, for profit | 0.805(0.47, 1.38) | 0.799(0.47, 1.37) | 0.815(0.48, 1.40) | 0.817(0.48, 1.40) | 0.797(0.47, 1.37) | 0.813(0.48, 1.39) |
| **Safety net hospital?** | 1.668\*\*(1.14, 2.44) | 1.650\*\*(1.13, 2.41) | 1.666\*\*(1.14, 2.43) | 1.655\*\*(1.13, 2.42) | 1.676\*\*(1.15, 2.45) | 1.664\*\*(1.14, 2.43) |
| **BIC** | **1350.6** | **1345.0** | **1349.9** | **1349.5** | **1350.1** | **1350.5** |

Note: Standardized regression coefficients reflect change in dependent variable for one standard deviation change in SPS measure; 95% confidence intervals are provided in parentheses. BIC=Bayesian Information Criterion. Evidence of association between SPS measures and outcomes evaluated using (1) measures of statistical significance, with p-values of less than 0.05 interpreted as statistically significant; and (2) effect size, evaluated as the change in odds of penalization for a metric change in SPS measure of interest.

\*p<0.05; \*\*p<0.01; \*\*\*p<0.001