**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