**Supplemental table. Results of the multivariate models for each outcome.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **90 day costs** | **Length of Stay** | **Major Complication** | **Non-home discharge** | **30 day-readmission** |
|  | *% increase* | *% increase* | *Odds Ratio* | *Odds Ratio* | *Odds Ratio* |
| **Preoperative opioid use** | 9.2% (2.8%, 15.6%)\*\* | 12.4% (2.3%, 23.5%)\* | 1.36 (1.04, 1.78)\* | 1.33 (0.94, 1.88) | 1.57 (1.08, 2.29)\* |
| **Age** | 0.1% (-0.1%, 0.3%) | -0.3% (-0.7%, 0.1%) | 1.00 (0.99, 1.01) | 1.05 (1.03, 1.06)\*\* | 0.99 (0.98, 1.00) |
| **Male** | 11.9% (6.9%, 16.9%)\*\* | 12.7% (3.7%, 22.3%)\*\* | 1.20 (0.94, 1.52) | 1.03 (0.76, 1.40) | 1.26 (0.89, 1.78) |
| **Non-white race** | -0.6% (-7.4%, 6.2%) | 1.9% (-9.3%, 14.4%) | 0.82 (0.57, 1.16) | 1.16 (0.75, 1.78) | 1.32 (0.84, 2.06) |
| **Insurance class** |  |  |  |  |  |
| **Commercial (Blue Cross Blue Shield of Michigan)** | 1 | 1 | 1 | 1 | 1 |
| **Commercial (other)** | 8.5% (1.9%, 15.0%)\* | 10.8% (-0.6%, 23.5%) | 0.89 (0.63, 1.24) | 2.33 (1.49, 3.66)\*\* | 1.28 (0.83, 1.96) |
| **Medicare** | 6.1% (-0.7%, 12.8%) | 3.0% (-8.9%, 16.4%) | 0.87 (0.64, 1.20) | 1.62 (1.07, 2.44)\* | 0.91 (0.57, 1.45) |
| **Medicaid** | 10.8% (-1.2%, 22.8%) | 8.2% (-9.4%, 29.6%) | 0.94 (0.53, 1.68) | 2.78 (1.23, 6.29)\* | 1.10 (0.47, 2.57) |
| **Charity care** | 10.1% (-18.1%, 38.4%) | 62.1% (5.2%, 149.7%)\* |  |  |  |
| **Work relative value units** | 1.7% (1.4%, 1.9%)\*\* | 2.1% (1.7%, 2.5%)\*\* | 1.04 (1.03, 1.05)\*\* | 1.03 (1.02, 1.04)\*\* | 1.01 (1.00, 1.03) |
| **Open approach** | 21.9% (16.0%, 27.7%)\*\* | 102.8% (79.3%, 129.5%)\*\* | 1.80 (1.29, 2.52)\*\* | 1.84 (1.20, 2.80)\*\* | 1.64 (1.08, 2.51)\* |
| **Body mass index** | -0.3% (-0.6%, 0%) | -0.6% (-1.2%, 0%)\* | 1.01 (1.00, 1.03) | 0.99 (0.97, 1.02) | 1.00 (0.98, 1.02) |
| **Dependent functional status** | 38.8% (7.3%, 70.2%)\* | 94.5% (47.3%, 156.8%)\*\* | 2.70 (0.77, 9.54) | 6.97 (1.41, 34.38)\* | 0.40 (0.05, 3.43) |
| **ASA class ≥ 3** | 17.5% (11.7%, 23.2%)\*\* | 8.7% (-1.8%, 20.3%) | 1.17 (0.88, 1.56) | 1.65 (1.11, 2.46)\* | 1.31 (0.88, 1.96) |
| **Smoker** | -3.7% (-9.9%, 2.5%) | -3.6% (-13.8%, 7.7%) | 1.32 (0.98, 1.77) | 1.20 (0.81, 1.79) | 0.58 (0.35, 0.95)\* |
| **Elixhauser score** | 10.3% (8.6%, 12.0%)\*\* | 15.5% (12.0%, 19.0%)\*\* | 1.24 (1.16, 1.32)\*\* | 1.33 (1.23, 1.43)\*\* | 1.00 (0.91, 1.10) |
| **Chronic steroid use** | 24.6% (12.7%, 36.6%)\*\* | 21.1% (3.0%, 42.4%)\* | 1.70 (1.13, 2.55)\*\* | 1.32 (0.77, 2.27) | 1.66 (0.96, 2.85) |
| **Albumin** | -21.6% (-28.6%, -14.6%)\*\* | -26.5% (-33.8%, -18.3%)\*\* | 0.60 (0.45, 0.79)\*\* | 0.39 (0.28, 0.55)\*\* | 0.61 (0.42, 0.90)\* |
| **Operation date after 7/2012** | 3.5% (-1.6%, 8.4%) | -11.4% (-18.8%, -3.2%)\*\* | 1.26 (0.99, 1.61) | 7.03 (4.99, 9.92)\*\* | 3.30 (2.28, 4.78)\*\* |

This table displays the results of the 5 multivariate models. Each column represents a different model and contains coefficients and 95% confidence intervals*. Charity care* was excluded from the logistic regression models due to 100% concordance with the outcomes. \* indicates P≤0.05 and \*\* indicates P ≤ 0.01.