**Appendix**. Unadjusted and Adjusted Association of Transfer Process Characteristics with Odds of 30-Day Mortality, Stratified by Service

**Table 1**: Unadjusted Association of Transfer Process Characteristics with Odds of 30-Day Mortality, Stratified by Service

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Service** | **Transfer Process Characteristic**  **Odds Ratio [95% Confidence Interval]** | | | |
| Day of Arrival  (Weekend vs Weekday) | Time of Arrival  (Night vs Day) | ǂAdmitting Team Busyness  (Quartile 4 vs 1) | Time Delay  (>48 vs 0-12 hrs) |
| Ortho/Burn/Trauma | 1.39 [0.88, 2.21] | 1.25 [0.63, 2.47] | 0.81 [0.42, 1.56] | 0.75 [0.16, 3.48] |
| Neurology | 0.75 [0.52, 1.06] | 0.82 [0.50, 1.32] | 1.13 [0.69, 1.86] | 0.64 [0.06, 6.43] |
| Medical ICU | 1.07 [0.83, 1.38] | 0.98 [0.70, 1.39] | **4.86 [3.36, 7.04]** | 1.39 [0.52, 3.70] |
| Oncology | 0.98 [0.80, 1.20] | 0.95 [0.66, 1.36] | 0.94 [0.70, 1.27] | 1.30 [0.80, 2.12] |
| GI Surgery | 1.27 [0.78, 2.09] | 1.17 [0.58, 2.36] | 1.29 [0.65, 2.57] | 0.43 [0.08, 2.35] |
| Medicine | 1.13 [0.82, 1.54] | 1.48 [0.84, 2.60] | 0.80 [0.53, 1.23] | 0.88 [0.39, 2.00] |
| \*Neurosurgery | 1.04 [0.56, 1.97] | 0.99 [0.43, 2.27] | **2.40 [1.03, 5.57]** | -- |
| Cardiology | 1.08 [0.90, 1.29] | **1.87 [1.46, 2.39]** | **0.24 [0.17, 0.32]** | 0.66 [0.34, 1.28] |
| CT surgery | 1.22 [0.89, 1.68] | **1.66 [1.06, 2.60]** | 1.15 [0.75, 1.78] | 0.88 [0.43, 1.82] |

**Table 2**: †Adjusted Association of Transfer Process Characteristics with Odds of 30-Day Mortality, Stratified by Service

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Service** | **Transfer Process Characteristic**  **Odds Ratio [95% Confidence Interval]** | | | |
| Day of Arrival  (Weekend vs Weekday) | Time of Arrival  (Night vs Day) | ǂAdmitting Team Busyness  (Quartile 4 vs 1) | Time Delay  (>48 vs 0-12 hrs) |
| Ortho/Burn/Trauma | 1.19 [0.70, 2.02] | 0.94 [0.43, 2.04] | 0.82 [0.38, 1.80] | 0.78 [0.15, 4.12] |
| Neurology | 0.73 [0.50, 1.08] | 0.86 [0.51, 1.45] | 1.22 [0.72, 2.09] | 0.63 [0.06, 6.70] |
| Medical ICU | 1.00 [0.76, 1.32] | 0.89 [0.61, 1.29] | **4.52 [3.01, 6.78]** | 0.95 [0.32, 2.81] |
| Oncology | 1.02 [0.81, 1.27] | 0.96 [0.65, 1.43] | 0.84 [0.61, 1.17] | 1.35 [0.80, 2.28] |
| GI Surgery | **1.51 [1.49, 1.52]** | **1.05 [1.04, 1.06]** | **1.42 [1.40, 1.44]** | **0.50 [0.48, 0.51]** |
| Medicine | 1.08 [0.77, 1.52] | 1.20 [0.64, 2.24] | 0.87 [0.54, 1.40] | 0.61 [0.25, 1.49] |
| \*Neurosurgery | 0.88 [0.42, 1.83] | 1.18 [0.46, 3.05] | 1.89 [0.69, 5.14] | -- |
| Cardiology | 1.04 [0.90, 1.26] | 1.32 [1.00, 1.74] | **0.29 [0.21, 0.41]** | 0.59 [0.30, 1.17] |
| CT surgery | **1.26 [1.25, 1.27]** | **1.34 [1.33, 1.35]** | **1.25 [1.24, 1.26]** | **0.73 [0.72, 0.74]** |

\*Too few outcomes to perform stratified analyses for association of increased time delay and adjusted odds of 30-day mortality among neurosurgical service transfers

†Adjusted for all patient characteristics (patient age; sex; race; Elixhauser comorbidity score; Diagnosis-Related Group (DRG) weight; insurance status; year of admission; number of pre-admission medications; and service of admission) and other transfer process characteristics  
ǂService-specific quartiles of Admitting Team Busyness were used for analyses (see reference table below)

Abbreviations: Ortho=Orthopedics; ICU=Intensive Care Unit; GI=Gastrointestinal; CT=Cardiothoracic

**Reference Table: Quartiles of Admission Team Busyness by Service**

|  |  |  |
| --- | --- | --- |
| **Service** | **Quartile 1** | **Quartile 4** |
| Ortho/Burn/Trauma | ≤ 4 | > 13 |
| Neurology | ≤ 2 | > 8 |
| Medical ICU | ≤ 3 | > 8 |
| Oncology | ≤ 3 | > 8 |
| GI Surgery | ≤ 4 | > 10 |
| Medicine | ≤ 5 | > 10 |
| Neurosurgery | ≤ 3 | > 8 |
| Cardiology | ≤ 4 | > 9 |
| CT surgery | ≤ 3 | > 7 |

Admission team busyness is defined as the total number of additional patient admissions and discharges completed by the admitting team on the calendar day of patient transfer

Abbreviations: Ortho=Orthopedics; ICU=Intensive Care Unit; GI=Gastrointestinal; CT=Cardiothoracic