Supplemental Table 1. Univariate Odds Ratios for Mortality ( $\mathrm{N}=214$ ) in the Development Set ( $\mathrm{N}=7560$ ).

|  | Survival $\begin{aligned} & (n=7346) \\ & n \text { (\%) } \end{aligned}$ | Death $\begin{aligned} & (n=214) \\ & n(\%) \end{aligned}$ | Odds ratios: Death vs. Survival (95\% CI) |
| :---: | :---: | :---: | :---: |
| Sex |  |  |  |
| Male | 4028 (97.3\%) | 112 (2.7\%) | 0.90 (0.69, 1.19) |
| Female | 3318 (97\%) | 102 (3.0\%) | Reference |
| Age |  |  |  |
| 0 day to < 7 days | 212 (88.7\%) | 27 (11.3\%) | 4.92 (2.97, 8.15) |
| 7 days to < 14 days | 113 (90.4\%) | 12 (9.6\%) | 4.10 (2.10, 8.01) |
| 14 days to < 21 days | 44 (93.6\%) | 3 (6.4\%) | 2.64 (0.79, 8.83) |
| 21 days to < 1 month | 57 (96.6\%) | 2 (3.4\%) | 1.36 (0.32, 5.74) |
| 1 month to < 12 months | 1576 (97\%) | 49 (3\%) | 1.20 (0.79, 1.83) |
| 12 months to < 60 months | 2097 (97.9\%) | 45 (2.1\%) | 0.83 (0.54, 1.27) |
| 60 months to < 144 months | 1624 (97.9\%) | 34 (2.1\%) | 0.81 (0.51, 1.28) |
| >= 144 months | 1623 (97.5\%) | 42 (2.5\%) | Reference |
| Admission Source |  |  |  |
| Inpatient unit | 782 (94.4\%) | 46 (5.6\%) | 3.65 (2.40, 5.54) |
| Emergency department | 2365 (97.9\%) | 51 (2.1\%) | 1.34 (0.89, 2.00) |
| Admission from another hospital | 1410 (95.1\%) | 72 (4.9\%) | 3.17 (2.17, 4.62) |
| Post-intervention (operating room or post-anesthesia care) unit | 2789 (98.4\%) | 45 (1.6\%) | Reference |
| PICU Admission Status |  |  |  |
| Elective (scheduled) | 2734 (98.7\%) | 36 (1.3\%) | 0.34 (0.24, 0.49) |


| Emergency (unscheduled) | 4612 (96.3\%) | 178 (3.7\%) | Reference |
| :---: | :---: | :---: | :---: |
| Intervention Classification |  |  |  |
| None | 4557 (96.4\%) | 169 (3.6\%) | 3.10 (0.98, 9.79) |
| Cardiac | 1018 (97.1\%) | 30 (2.9\%) | 2.47 (0.75, 8.14) |
| Interventional cardiac catheterization | 97 (96\%) | 4 (4.0\%) | 3.45 (0.76, 15.70) |
| Neurosurgery | 529 (99.2\%) | 4 (0.8\%) | 0.63 (0.14, 2.85) |
| Orthopedic | 266 (100\%) | 0 (0\%) | <0.01 (<0.01, >999) |
| General surgery | 222 (98.2\%) | 4 (1.8\%) | 1.51 (0.33, 6.81) |
| ENT | 406 (100\%) | 0 (0\%) | <0.01 (<0.01, >999) |
| Other (1) | 251 (98.8\%) | 3 (1.2\%) | Reference |
| Cardiac Arrest Within 24 Hours Prior to PICU Admission |  |  |  |
| Yes | 64 (61.5\%) | 40 (38.5\%) | 26.2 (17.1, 39.9) |
| No | 7282 (97.7\%) | 174 (2.3\%) | Reference |
| Cancer (Acute or Chronic) |  |  |  |
| Yes | 528 (95.1\%) | 27 (4.9\%) | 1.87 (1.23, 2.81) |
| No | 6818 (97.3\%) | 187 (2.7\%) | Reference |
| Trauma (Primary or Secondary Diagnosis) |  |  |  |
| Yes | 464 (96.5\%) | 17 (3.5\%) | 1.28 (0.77, 2.12) |
| No | 6882 (97.2\%) | 197 (2.8\%) | Reference |
| Primary System of Dysfunction |  |  |  |
| Respiratory | 2484 (97.8\%) | 56 (2.2\%) | 1.69 (0.72, 3.94) |
| Cancer | 276 (97.5\%) | 7 (2.5\%) | 1.90 (0.63, 5.71) |


| Cardiovascular disease - acquired | 455 (91.5\%) | 42 (8.5\%) | 6.91 (2.91, 16.41) |
| :---: | :---: | :---: | :---: |
| Cardiovascular disease congenital | 1263 (95.8\%) | 55 (4.2\%) | 3.26 (1.39, 7.62) |
| Endocrine | 249 (99.6\%) | 1 (0.4\%) | 0.30 (0.04, 2.51) |
| Gastrointestinal | 253 (96.6\%) | 9 (3.4\%) | 2.66 (0.94, 7.57) |
| Hematological | 59 (98.3\%) | 1 (1.7\%) | 1.27 (0.15, 10.72) |
| Musculoskeletal | 318 (99.7\%) | 1 (0.3\%) | 0.24 (0.03, 1.96) |
| Neurological | 1472 (97.6\%) | 36 (2.4\%) | 1.83 (0.77, 4.37) |
| Renal | 68 (100\%) | 0 (0\%) | <0.01 (<0.01, >999) |
| Other (1) | 449 (98.7\%) | 6 (1.3\%) | Reference |
| PRISM Physiological Variable Score $(2)^{1}$ |  |  |  |
| PRISM Cardiovascular |  |  | 1.43 (1.36, 1.51) |
| PRISM Metabolic |  |  | 1.33 (1.28, 1.39) |
| PRISM Chemistry Score |  |  | 1.45 (1.37, 1.54) |
| PRISM Hematological Score |  |  | 1.37 (1.31, 1.44) |
| PRISM Neurological Score |  |  | 1.28 (1.24, 1.31) |
| PRISM Non-Neurological Score |  |  | 1.23 (1.20, 1.25) |
| Total PRISM Score |  |  | 1.21 (1.19, 1.23) |
| 1. Other includes unknown |  |  |  |
| 2. Odds Ratios are for each 1 point increase of the PRISM physiological variable score. ${ }^{1}$ Cardiac components include heart rate, systolic blood pressure, and temperature. Neurological components include pupillary reactivity, and mental status. Respiratory components include arterial PO2, pH, PCO2, and total bicarbonate. Chemical components include glucose, potassium, blood urea nitrogen, and creatinine. Hematological components include white blood cell count, platelet count, prothrombin and partial thromboplastin time. |  |  |  |

1. Pollack MM, Patel KM, Ruttimann UE. PRISM III: an updated Pediatric Risk of Mortality score. Critical Care Medicine. May 1996;24(5):743-752.
