**Supplemental Table 1.** Univariable logistic regression of Final Hospital Needs Cardiovascular and Feeding/Fluid

|  |  |  |
| --- | --- | --- |
|  | **Cardiovascular** | **Feeding/Fluid** |
| **Variables (n**) | **OR (95% CI)** | **p-value** | **OR (95% CI)** | **p-value** |
| **Age Group** Pediatric (407)  | 2.73 (1.87,3.98) | <0.001 | 0.36 (0.24,0.52) | <0.001 |
|  Neonate (217)  | (reference) | (reference) | (reference) | (reference) |
| ACU LOS (day) | 0.88 (0.79,0.98) | 0.018 | 1 (0.98,1.01) | 0.76 |
| Syndrome Flag (157) | 0.93 (0.64,1.36) | 0.72 | 0.63 (0.39,0.98) | 0.047 |
| **Non-surgical**  Medical (91) | 0.38 (0.17,0.87) | 0.022 | 0.79 (0.28,2.41) | 0.66 |
|  Transplant (18) | 0.22 (0.06,0.83) | 0.025 | 1.24 (0.28,5.09) | 0.77 |
|  Cath (20)  | 0.52 (0.17,1.61) | 0.26 | 1.86 (0.5,7.03) | 0.35 |
| **Benchmark Operation** Aortic arch (80) | 0.18 (0.07,0.44) | <0.001 | 3.55 (1.39,10.36) | 0.012 |
|  ASD (12) | 1.09 (0.28,4.17) | 0.9 | 0.87 (0.11,4.54) | 0.87 |
|  ASO (80) | 0.22 (0.07,0.65) | 0.006 | 2.6 (0.86,8.61) | 0.1 |
|  AVC (34) | 0.88 (0.33,2.31) | 0.79 | 1.12 (0.33,3.92) | 0.85 |
|  Fontan (20)  | 1.17 (0.38,3.63) | 0.79 | - | - |
|  Glenn (48) | 0.72 (0.29,1.76) | 0.47 | 0.74 (0.22,2.53) | 0.62 |
|  Left-side valve (48) | 0.47 (0.19,1.16) | 0.1 | 0.19 (0.03,0.88) | 0.05 |
|  Norwood (46) | 0.09 (0.03,0.3) | <0.001 | 3.05 (1.1,9.48) | 0.04 |
|  Other/Truncus/Vascular ring (69) | 0.27 (0.11,0.66) | 0.004 | 1.42 (0.52,4.31) | 0.51 |
|  PVR/Conduit (24) | 1.09 (0.37,3.18) | 0.88 | 0.87 (0.2,3.45) | 0.84 |
|  TAPVC (11) | 0.29 (0.07,1.31) | 0.11 | 2.48 (0.52,11.4) | 0.24 |
|  TOF (39) | 1.01 (0.39,2.58) | 0.99 | 1.3 (0.41,4.34) | 0.66 |
|  VSD (32) | (reference) | (reference) | (reference) | (reference) |
| **Postoperative complications** NEC (5) | 1.21 (0.2,7.29) | 0.84 | 0.27 (0,2.44) | 0.3 |
|  Any of ECMO/VAD (14) | 0.06 (0,0.45) | 0.002 | 2.34 (0.76,6.85) | 0.12 |
|  Cardiac Arrest (5) | 0.45 (0.05,4.05) | 0.48 | 1.02 (0.05,8.02) | 0.99 |
| **Discharge Planning** Nasal Canula O2 (262) | 0.84 (0.6,1.17) | 0.29 | 1.06 (0.73,1.54) | 0.76 |
|  Narcotic Wean (17) | 0.23 (0.05,1.04) | 0.06 | 1.28 (0.4,3.52) | 0.65 |
|  100 × Distance = Zip to PCH (mile) | 1.04 (0.99,1.1) | 0.12 | 0.93 (0.84,1.01) | 0.13 |
|  Feeding At Discharge: GT (11) | 0.29 (0.06,1.36) | 0.12 | 1.08 (0.16,4.41) | 0.93 |
|   NG+NJ (219) | 0.38 (0.26,0.55) | <0.001 | 2.32 (1.59,3.4) | <0.001 |
|  PO (394) | (reference) | (reference) | (reference) | (reference) |
| **Final ICU Need**Other FIN (65) | 0.22 (0.11,0.44) | <0.001 | 0.78 (0.38,1.47) | 0.46 |
|  Respiratory (144) | 0.29 (0.18,0.46) | <0.001 | 1.9 (1.24,2.9) | 0.003 |
|  Cardiovascular (392) | (reference) | (reference) | (reference) | (reference) |

ACU = acute care unit; LOS = length of stay; ASD = atrial septal defect; ASO = arterial switch operation; AVC = atrioventricular canal; PVR = pulmonary valve replacement; TAPVC = total anomalous pulmonary venous connection; TOF = tetralogy of Fallot; VSD = ventricular septal defect; NEC = necrotizing enterocolitis; ECMO = extracorporeal membrane oxygenation; VAD = ventricular assist device; GT = gastrostomy tube; NG = nasogastric; NJ = nasojejunal; PO = by mouth; FIN = final ICU need