Supplemental Table 1

Odds ratio for hemodynamic tracheal intubation associated events for oxygen desaturation cutoff (<10%, 10-20%, 20-30%, 30% or above).

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Children with Cyanotic Heart Disease  N=912 | | | | | Children with Non-cyanotic Heart Disease  N=842 | | | | | |
| Variables | Odds ratio | 95% CI p-value | | | Variables Odds ratio 95% CI p-value | | | | | |
| Desaturation Category |  |  |  |  | Desaturation Category |  | |  |  |  |
| <10 | Reference |  |  |  | <10 | Reference |  | |  |  |
| 10 to 20 | 1.02 | 0.41 | 2.55 | 0.969 | 10 to 20 | 4.78 | 2.22 | | 10.30 | <0.001 |
| 20 to 30 | 2.23 | 0.95 | 5.24 | 0.065 | 20 to 30 | 3.39 | 1.21 | | 9.49 | 0.020 |
| >= 30 | 4.13 | 2.06 | 8.29 | <0.001 | >= 30 | 6.09 | 2.90 | | 12.79 | <0.001 |
|  |  |  |  |  |  |  |  | |  |  |
| **Age Category** |  |  |  |  | **Age Category** |  |  | |  |  |
| Infant | Reference |  |  |  | Infant | Reference |  | |  |  |
| Young Child (1-7yr) | 2.93 | 1.28 | 6.68 | 0.011 | Young Child (1-7yr) | 2.95 | 1.49 | | 5.83 | 0.002 |
| Older Child (8-17yr) | 10.64 | 3.09 | 36.56 | <0.001 | Older Child (8-17yr) | 3.11 | 1.38 | | 7.03 | 0.006 |
| **Diagnosis** |  |  |  |  | **Diagnosis** |  |  | |  |  |
| Cardiac- Medical | Reference |  |  |  | Cardiac- Medical | Reference |  | |  |  |
| Cardiac-Surgical | 1.00 | 0.56 | 1.81 | 0.993 | Cardiac-Surgical | 0.93 | 0.51 | | 1.71 | 0.825 |
| **Indication** |  |  |  |  | **Indication** |  |  | |  |  |
| Hemodynamic instability | 4.23 | 2.36 | 7.57 | <0.001 | Hemodynamic instability | 3.11 | 1.70 | | 5.68 | <0.001 |
| Procedure | 0.34 | 0.10 | 1.18 | 0.09 | Procedure | 0.26 | 0.06 | | 1.11 | 0.069 |
| **Provider** |  |  |  |  | **Provider** |  |  | |  |  |
| Attending Physician\* | Reference |  |  |  | Attending Physician\* | Reference |  | |  |  |
| Resident | 1.55 | 0.52 | 4.58 | 0.428 | Resident | 1.23 | 0.44 | | 3.49 | 0.694 |
| Fellow | 0.47 | 0.22 | 0.99 | 0.047 | Fellow | 0.46 | 0.21 | | 0.99 | 0.047 |
| Nurse Practitioner | 1.60 | 0.75 | 3.41 | 0.224 | Nurse Practitioner | 0.82 | 0.29 | | 2.27 | 0.697 |

CI denotes confidence interval. Odds ratio for cardiac surgical diagnosis is in reference to cardiac-medical diagnosis.

\*Attending physician category also included subspecialists.