**Supplemental Table 1:** Clinical outcomes of AVSD patients with versus without Down syndrome using ICD-10 codes only during the period from 2016-2018.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **AVSD with DS (n = 8363)** | **AVSD with No-DS (n = 6912)** | **OR (95% CI)** | ***P*-value** |
| **Cardiac Morbidities:** |  |  |  |  |
| Cyanosis | 52 (0.4) | 161 (1.9) | 1.07 (0.94-1.23) | 0.01 |
| Pulmonary hypertension | 359 (3.9) | 192 (2.4) | 0.95 (0.86–1.04) | < 0.001 |
| Heart block | 334 (3.6) | 264 (3.4) | 0.26 (0.23–0.29) | < 0.001 |
| Cardiac dysrhythmias | 550 (6.2) | 775 (10.8) | 0.07 (0.02–0.11) | < 0.001 |
| Cardiac arrest | 86 (0.8) | 191 (2.4) | 0.50 (0.42–0.57) | < 0.001 |
| Systemic hypertension | 229 (2.5) | 236 (3.0) | 0.61 (0.54–0.70) | < 0.001 |
| **Respiratory Morbidities:** |  |  |  |  |
| Pneumonia | 449 (5.2) | 335 (4.4) | 0.57 (0.52–0.62) | < 0.001 |
| Bronchopulmonary dysplasia | 93 (0.9) | 125 (1.4) | 0.65 (0.60–0.72) | < 0.001 |
| Respiratory distress syndrome | 310 (3.5) | 377 (5.0) | 0.53 (0.50–0.57) | < 0.001 |
| Pleural effusion | 585 (6.8) | 505 (7.1) | 0.27 (0.21–0.33) | < 0.001 |
| Respiratory failure | 1206 (14.2) | 1166 (16.7) | 0.19 (0.16–0.23) | < 0.001 |
| **Other Morbidities:** |  |  |  |  |
| Respiratory anomalies | 324 (3.7) | 344 (4.8) | 0.36 (0.30–0.43) | < 0.001 |
| Digestive anomalies | 595 (6.9) | 793 (11.3) | 0.17 (0.13–0.21) | < 0.001 |
| Feeding difficulty | 733 (8.6) | 407 (5.7) | 0.25 (0.21–0.29) | < 0.001 |
| Necrotizing enterocolitis | 81 (0.8) | 143 (2.1) | 0.19 (0.14–0.24) | < 0.001 |
| Acute renal failure | 207 (2.3) | 356 (4.9) | 0.52 (0.49–0.56) | < 0.001 |
| Septicemia | 409 (4.7) | 592 (8.4) | 0.09 (0.07–0.12) | < 0.001 |
| Shock | 149 (1.8) | 249 (3.6) | 0.31 (0.23–0.40) | < 0.001 |
| **Procedures:** |  |  |  |  |
| Mechanical ventilation: |  |  |  |  |
| <96 hours | 749 (8.8) | 827 (11.8) | 0.95 (0.90–1.02) | < 0.001 |
| ≥96 hours | 556 (6.5) | 1060 (15.1) | 0.83 (0.80–0.87) | < 0.001 |
| ECMO support | 64 (0.6) | 214 (2.9) | 0.77 (0.71–0.83) | < 0.001 |
| Tracheostomy | 33 (0.2) | 112 (1.6) | 0.59 (0.56–0.63) | < 0.001 |
| Gastrostomy | 471 (5.4) | 282 (3.8) | 1.54 (1.44–1.64) | < 0.001 |
| Cardiac catheterization | 263 (3.0) | 846 (12.0) | 0.35 (0.16-0.47) | < 0.001 |
| Conversion of cardiac rhythm | 78 (0.7) | 192 (2.6) | 1.04 (0.94–1.14) | < 0.001 |
| Pacemaker implantation | 74 (0.9) | 112 (1.8) | 0.47 (0.43–0.51) | < 0.001 |