Supplementary Table 3: Univariate and Multivariable analysis for **Severe** Delay by Subscale

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variables | Receptive | | | | Expressive | | | | Fine | | | | Gross | | | |
|  | Unadjusted | | Adjusted | | Unadjusted | | Adjusted | | Unadjusted | | Adjusted | | Unadjusted | | Adjusted | |
|  | OR (95%CI) | P value | aOR | P | OR (95%) | P value | aOR | P | OR (95%) | P value | aOR | P | OR | P | aOR | P |
| **CS-AKI Episodes** |  | 0.002 |  | 0.01 |  | 0.04 |  | 0.86 |  | 0.05 |  | 0.69 |  | 0.25 |  | 0.81 |
| 0 | Ref |  | Ref |  | Ref |  | Ref |  | Ref |  | Ref |  | Ref |  | Ref |  |
| 1 | 0.5 (0.2-1.4) | 0.19 | 0.4 (0.1-1.5) | 0.18 | 1.6 (0.8-3.5) | 0.21 | 1.3 (0.5-3) | 0.6 | 2.3 (0.8-6.5) | 0.12 | 1.6 (0.5-5.1) | 0.46 | 1.8 (0.7-5) | 0.26 | 1.1 (0.3-3.8) | 0.84 |
| >1 | 8.4 (2.2-32.4) | **0.002** | 8.4 (1.4-52.3) | **0.02** | 5 (1.4-18.8) | **0.02** | 1.3 (0.2-7.3) | 0.76 | 6 (1.3-27.2) | **0.02** | 0.8 (0.09-7) | 0.83 | 3.5 (0.6-19.5) | 0.15 | 0.1 (0.01-1.3) | 0.08 |
| **Demographics** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Male | 1.7 (0.7-3.7) | 0.22 |  |  | 2.7 (1.2-5.9) | **0.01** | 2.5 (1.1-5.7) | **0.03** | 2.9 (0.9-8.9) | 0.07 |  |  | 1.8 (0.6-4.8) | 0.27 |  |  |
| Birthweight, kg | 0.7 (0.4-1.4) | 0.33 | 0.8 (0.4-1.6) | 0.46 | 0.7 (0.4-1.3) | 0.25 | 0.7 (0.4-1.4) | 0.32 | 0.7 (0.3-1.5) | 0.29 | 0.8 (0.3-2) | 0.61 | 0.6 (0.3-1.3) | 0.18 | 0.8 (0.3-1.9) | 0.58 |
| *Race/Ethnicity* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Non- Hispanic White | 0.4 (0.2-1) | **0.04** | 0.5 (0.2-1.5) | 0.20 | 0.7 (0.3-1.4) | 0.25 |  |  | 0.8 (0.3-2.2) | 0.73 |  |  | 0.8 (0.3-2) | 0.57 |  |  |
| Gestational age | 0.9 (0.7-1) | 0.1 |  |  | 1 (0.8-1.2) | 0.93 |  |  | 1 (0.8-1.3) | 0.93 |  |  | 1 (0.8-1.3) | 0.86 |  |  |
| Age at 1st surgery (7 day increase) | 1 (1-1.1) | 0.31 | 1 (1-1.1) | 0.45 | 1 (1-1.1) | **0.01** | 1 (1-1.1) | 0.07 | 1.1 (1-1.1) | **0.02** | 1 (1-1.1) | 0.17 | 1.1 (1-1.1) | **0.01** | 1.1 (1-1.1) | 0.09 |
| >1 cardiac surgery | 1.8 (0.8-3.9) | 0.13 |  |  | 1.5 (0.8-3) | 0.25 |  |  | 2 (0.8-5.3) | 0.14 |  |  | 1.5 (0.6-3.8) | 0.41 |  |  |
| **Intra/PostOp** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total CPB, min | 1 (1-1) | 0.55 |  |  | 1 (1-1) | **0.02** |  |  | 1 (1-1) | **0.02** |  |  | 1 (1-1) | **0.01** |  |  |
| Total Anesthesia, min | 1 (1-1) | 0.1 |  |  | 1 (1-1) | **0.03** |  |  | 1 (1-1) | 0.07 |  |  | 1 (1-1) | 0.1 |  |  |
| Total Hospital Days in 1st year (7 day increase) | 1.1 (1-1.1) | **0.003** | 1 (1-1.1) | 0.32 | 1.1 (1-1.1) | **<0.001** | 1.1 (1-1.1) | **0.006** | 1.1 (1-1.2) | **<0.001** | 1.1 (1-1.2) | **0.001** | 1.1 (1.1-1.2) | **<0.001** | 1.2 (1.1-1.3) | **<0.001** |
| Total Intubated Days | 1 (1-1.1) | **0.03** |  |  | 1 (1-1.1) | **0.02** |  |  | 1 (1-1.1) | **0.01** |  |  | 1.1 (1-1.1) | **0.007** |  |  |
| Total Benzodiazepine (mg) (100 unit increase) | 1.1 (1-1.1) | 0.06 |  |  | 1.1 (1-1.1) | 0.08 |  |  | 1.1 (1-1.1) | **0.02** |  |  | 1.1 (1-1.1) | 0.05 |  |  |
| Total Opiate (mg) | 1 (1-1) | 0.98 |  |  | 1 (1-1) | 0.96 |  |  | 1 (1-1) | 0.75 |  |  | 1 (1-1) | 0.75 |  |  |
| STAT 3-5 | 0.7 (0.3-1.5) | 0.37 |  |  | 0.9 (0.4-1.8) | 0.7 |  |  | 1 (0.4-2.7) | 0.98 |  |  | 1 (0.4-2.8) | 0.95 |  |  |
| ECMO/VAD/CPR | 2.7 (0.5-15.4) | 0.27 |  |  | 4.2 (0.8-21.5) | 0.09 |  |  | 10.2 (1.9-54.7) | **0.01** |  |  | 6.3 (1-40.8) | 0.05 |  |  |
| Post-Op Seizures | 1.4 (0.3-6.9) | 0.69 |  |  | 1.7 (0.4-7) | 0.44 |  |  | 4.5 (1.1-19.12) | **0.04** |  |  | 4.6 (1.1-20) | **0.04** |  |  |
| English Speaker | 0.3 (0.1- 0.7) | **0.005** | 0.4 (0.2- 1.1) | 0.07 | 0.5 (0.2- 1.04) | 0.06 |  |  | 1.3 (0.4- 4.2) | 0.65 |  |  | 1 (0.3- 2.9) | 0.99 |  |  |