***Predictors of outcome in neonates with respiratory distress- A prospective study***

**Supplementary data: Multivariate analysis**

**Binary logistic regression was used for multivariate analysis by using Survival/Death as response variable against various predictors**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   | B | S.E. | Wald | **p-value** | **Odds ratio** | **95% C.I.for Odds ratio** |
| Lower | Upper |
| **Birth weight** | 0.002 | 0.001 | 4.072 | **0.044\*** | **1.002** | 1.000 | 1.004 |
| **Gestational age**  | -0.503 | 0.183 | 7.533 | **0.006\*** | 0.605 | 0.422 | 0.866 |
| APGAR score at 5 minutes | -0.520 | 0.339 | 2.357 | 0.125 | 0.594 | 0.306 | 1.155 |
| **Downe’s score at baseline** | 0.352 | 0.259 | 1.843 | 0.175 | **1.422** | 0.855 | 2.363 |
| **Oxygen saturation baseline** | 0.021 | 0.087 | 0.059 | 0.808 | **1.021** | 0.861 | 1.211 |
| Constant | 11.482 | 8.375 | 1.880 | 0.170 | 96971.850 |   |   |

**Binary logistic regression was used for multivariate analysis using mechanical ventilation as response variable against various predictors**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   | B | S.E. | Wald | **p-value** | **Odds ratio** | **95% C.I.for Odds ratio** |
| Lower | Upper |
| **Birth weight** | -0.001 | 0.001 | 1.686 | 0.194 | 0.999 | 0.998 | 1.000 |
| **Gestational age**  | 0.286 | 0.116 | 6.050 | **0.014** | **1.331** | 1.060 | 1.672 |
| **APGAR score at 5 minutes** | 0.683 | 0.280 | 5.970 | **0.015** | **1.980** | 1.145 | 3.425 |
| **Downe’s score at baseline** | -0.138 | 0.184 | 0.561 | 0.454 | 0.871 | 0.607 | 1.250 |
| **Oxygen saturation baseline** | 0.086 | 0.060 | 2.094 | 0.148 | **1.090** | 0.970 | 1.226 |
| **Constant** | -19.378 | 6.262 | 9.576 | 0.002 | 0.000 |   |   |

**Binary logistic regression was used for multivariate analysis by using requirement of respiratory support at 72 hours of life as response variable against various predictors**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Respiratory support at 72 hr**   | B | S.E. | Wald | **p-value** | **Odds ratio** | **95% C.I.for Odds ratio** |
| Lower | Upper |
| Birth weight | 0.000 | 0.000 | 0.541 | 0.462 | **1.000** | 0.999 | 1.001 |
| Gestational age  | -0.163 | 0.089 | 3.396 | 0.065 | 0.849 | 0.714 | 1.010 |
| APGAR score at 5 minutes | -0.271 | 0.230 | 1.387 | 0.239 | 0.763 | 0.486 | 1.197 |
| **Downe's score** | 0.252 | 0.149 | 2.870 | 0.090 | **1.287** | 0.961 | 1.723 |
| SpO2 | -0.034 | 0.053 | 0.408 | 0.523 | 0.967 | 0.871 | 1.073 |
| Constant | 9.628 | 5.267 | 3.342 | 0.068 | 15180.059 |   |   |