**Table I: Baseline characteristics of the study population are elaborated in the table below as either percentages or Mean ± Standard deviation:**

|  |  |  |  |
| --- | --- | --- | --- |
| GENDER  (total number of babies = 97) | | MALE | 45.4% |
| FEMALE | 54.6% |
| MODE OF DELIVERY | | LSCS | 85.6% |
| NVD | 12.4% |
| VAVD | 2% |
| APGAR at 1 minute | | | 7.46 ± 0.693 |
| APGAR at 5 minutes | | | 8.64 ± 0.521 |
| BIRTHWEIGHT (grams) | | | 2895 ± 612 |
| GESTATIONAL AGE (weeks) | | | 37.4 ± 1.88 |
| FiO2 (21% -100%)  (In the delivery room) | | | 33.65 ± 12.04 |
| SA SCORE (0-10)  (In the delivery room/transition nursery) | | | 3.53 ± 0.81 |
| LUS SCORE (0-18)  (In the delivery room/transition nursery) | | | 4.58 ± 1.74 |
| TYPE OF RESPIRATORY SUPPORT | CPAP | | 67% |
| LOW FLOW O2 | | 33% |
| NICU ADMISSION | YES | | 43.3% |
| NO | | 56.7% |

**Table II:** **Comparison of study variables in relation to NICU admission of patients studied:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variables** | **NICU ADMISSION** | | **Total** | **P Value** |
| **No** | **Yes** |
| MOD |  |  |  |  |
| * NVD | 6(10.9%) | 6(14.3%) | 12(12.4%) | 0.602 |
| * VAVD | 2(3.6%) | 0(0%) | 2(2.1%) |
| * LSCS | 47(85.5%) | 36(85.7%) | 83(85.6%) |
| PPV (in the delivery room) |  |  |  |  |
| * No | 52(94.5%) | 41(97.6%) | 93(95.9%) | 0.630 |
| * Yes | 3(5.5%) | 1(2.4%) | 4(4.1%) |
| RESP. SUPPORT TYPE (In delivery room/transition nursery) |  |  |  |  |
| * CPAP | 27(49.1%) | 38(90.5%) | 65(67%) | <0.001 |
| * LOW FLOW O2 | 28(50.9%) | 4(9.5%) | 32(33%) |
| SAS SCORE (In delivery room/Transition nursery) |  |  |  |  |
| * 1 | 0(0%) | 0(0%) | 0(0%) | <0.001 |
| * 2 | 6(10.9%) | 3(7.1%) | 9(9.3%) |
| * 3 | 29(52.7%) | 7(16.7%) | 36(37.1%) |
| * 4 | 19(34.5%) | 26(61.9%) | 45(46.4%) |
| * 5 | 1(1.8%) | 4(9.5%) | 5(5.2%) |
| * 6 | 0(0%) | 2(4.8%) | 2(2.1%) |
| Fi02 (% in delivery room/Transition nursery) |  |  |  |  |
| 21-30 | 39(70.9%) | 30(71.4%) | 69(71.1%) | 0.548 |
| 31-40 | 10(18.2%) | 5(11.9%) | 15(15.5%) |
| >40 | 6(10.9%) | 7(16.7%) | 13(13.4%) |
| LUS SCORE (In delivery room/Transition nursery) |  |  |  |  |
| 1-3 | 28(50.9%) | 1(2.4%) | 29(29.9%) | <0.001 |
| 4-6 | 27(49.1%) | 25(59.5%) | 52(53.6%) |
| 7-10 | 0(0%) | 16(38.1%) | 16(16.5%) |
| Total | 55(100%) | 42(100%) | 97(100%) |  |

**Table III:** ROC result describing prediction for NICU admission in relation to LUS score.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variables** | **ROC results to predict NICU ADMISSION** | | | | **Cut-off** | **AUROC** | **SE** | **P value** |
| **Sensitivity** | **Specificity** | **LR+** | **LR-** |
| LUS SCORE | 64.29 | 98.18 | 35.36 | 0.36 | >5 | 0.903 | 0.0288 | <0.001 |

**Figure 1:** ROC curve for prediction of NICU admission with criterion taken as LUS Score >5



**Figure II:** Scatterplot showing a positive correlation between the SA Score and the LUS Score

