|  |  |  |  |
| --- | --- | --- | --- |
| Variable | NIRS Cohort  (n = 17) | non-NIRS Cohort  (n = 16) | P value |
| Birth weight (kgs)a | 3.0 (2.6 – 3.3) | 3.3 (3.0 – 3.7) | 0.11 |
| Birth weight < 2.5 kgs | 2 (11.8) | 1 (6.3) | 1.00 |
| Age at CICU admission (days)a | 0.0 (0.0 – 1.0) | 0.0 (0.0 – 1.0) | 0.99 |
| Race, n (%)  Caucasian  Africa-American  Asian  Hispanic | 5 (29.4)  2 (11.8)  0 (0.0)  10 (58.8) | 9 (56.3)  1 (6.3)  1 (6.3)  5 (31.3) | 0.27 |
| Female gender, n (%) | 8 (47.1) | 6 (37.5) | 0.58 |
| Estimated gestational age (wks)b | 34.9 – 41.0 | 36.9 – 41.3 | 0.61 |
| Estimated gestational age < 36 wks | 1 (5.9) | 0 (0) | 1.0 |
| One-minute APGARa | 8.0 (8.0 – 8.0) | 8.0 (8.0 – 8.0) | 0.34 |
| Five-Minute APGARa | 8.0 (8.0 – 9.0) | 8.0 (8.0 -9.0) | 0.46 |
| Cardiac diagnosis  HLHS  TA variant-PA variant  TOF | 14 (82.3)  2 (11.8)  1 (5.9) | 13 (81.3)  3 (18.8)  0 (0.0) | 0.99 |
| Chromosomal anomaly, syndrome, or extracardiac anomaly, n (%) | 3 (17.7) | 2 (12.5) | 0.99 |
| Preoperative mechanical ventilation, n (%) | 9 (52.9) | 7 (43.8) | 0.60 |
| Preoperative vasoactive infusions, n (%) | 16 (94.1) | 16 (100.0) | 0.99 |
| Age at surgery (days)a | 6.0 (4.0 – 7.0) | 6.0 (5.0 – 7.5) | 0.81 |
| Type of Stage I palliation (%)  NW-BTS  NW-RV to PA  BTS | 1 (5.9)  13 (76.5)  3 (17.7) | 1 (6.3)  12 (75.0)  3 (18.8) | 0.99 |
| RACHS-1 Scorea | 6.0 (6.0 – 6.0) | 6.0 (6.0 – 6.0) | 0.96 |
| CPB time (mins)a | 184.0 (167.0 – 200.0) | 184.5 (161.5 – 205.5) | 0.96 |
| ACC time (mins)a | 56.0 (45.0 – 64.0) | 54.0 (47.0 – 58.0) | 0.60 |
| RLFP time (mins)a | 41.0 (37.0 – 46.0) | 41.0 (36.0 – 43.0) | 0.42 |
| Delayed sternal closure, n (%) | 14 (82.3) | 13 (48.2) | 0.99 |

APGAR, **A**ppearance, **P**ulse, **G**rimace, **A**ctivity, **R**espiration; CICU, cardiac intensive care unit; CPB, cardiopulmonary bypass; DHCA, deep hypothermic circulatory arrest; HLHS, hypoplastic left heart syndrome; NW-BTS, Norwood operation with Blalock-Taussig shunt; NW-RV to PA, Norwood operation with right ventricle to pulmonary artery conduit; PA, pulmonary atresia;; RLFP, regional low flow perfusion; STAT, The Society of Thoracic Surgeons-European Association for Cardio-Thoracic Surgery; TA, tricuspid atresia; TOF, tetralogy of Fallot; RACHS-1 Score, Risk Adjustment for Congenital Heart Surgery-1 score; ACC, Aortic cross clamp

aMedian, interquartile range (25th, 75th).

bFull range.