**Supplementary Tables**

**Supplementary Table S1**

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| --- | --- | --- | --- | --- |
| Table S1. Calorie intake after the Norwood procedure | | | |  |
|  | Total | Early death after Norwood | No early death after Norwood | p-value |
|  | n=153 | n=21 | n=132 |  |
| Kcal/day |  |  |  |  |
| Admission | 13.1 ± 19.6 | 14.8 ± 22.0 | 12.8 ± 19.2 | 0.666 |
| 3 POD | 144.4 ± 49.1 | 124.7 ± 51.6 | 147.6 ± 48.2 | 0.047 |
| 5 POD | 203.2 ± 60.2 | 143.1 ± 67.9 | 212.3 ± 53.6 | <0.001 |
| 7POD | 215.3 ± 69.1 | 148.5 ± 59.7 | 225.6 ± 64.6 | <0.001 |
| 10 POD | 234.7 ± 84.5 | 146.6 ± 66.4 | 246.8 ± 79.6 | <0.001 |
| 14 POD | 249.9 ± 79.9 | 167.0 ± 49.3 | 261.5 ± 76.5 | <0.001 |
| 21 POD | 277.1 ± 100.8 | 138.6 ± 81.3 | 288.8 ± 93.7 | <0.001 |
|  |  |  |  |  |
| Kcal/kg/day | n=153 | n=21 | n=132 |  |
| Admission | 4.0 ± 5.7 | 4.9 ± 7.0 | 3.9 ± 5.6 | 0.411 |
| 3 POD | 45.3 ± 15.3 | 41.2 ± 15.9 | 46.0 ± 15.1 | 0.184 |
| 5 POD | 63.6 ± 18.7 | 47.5 ± 21.8 | 66.0 ± 17.0 | <0.001 |
| 7POD | 67.4 ± 20.6 | 50.0 ± 19.2 | 70.1 ± 19.6 | <0.001 |
| 10 POD | 73.9 ± 24.8 | 49.2 ± 21.2 | 77.2 ± 23.3 | <0.001 |
| 14 POD | 79.0 ± 23.9 | 56.3 ± 17.9 | 82.1 ± 22.9 | <0.001 |
| 21 POD | 87.2 ± 31.7 | 47.4 ± 29.7 | 90.5 ± 29.7 | <0.001 |

POD: Postoperative Day

Supplementary Table ~~S1~~ S2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table ~~S1~~ S2. Calorie intake after the Norwood procedure in early survivors | | | | |
|  | Total | BCPS (-) | BCPS (+) | p-value |
|  | n=132 | n=29 | n=103 |  |
| Kcal/day |  |  |  |  |
| Admission | 12.8 ± 19.2 | 8.1 ± 9.1 | 14.0 ± 21.0 | **0.031** |
| 3 POD | 147.6 ± 48.2 | 145.9 ± 51.8 | 148.0 ± 47.4 | 0.833 |
| 5 POD | 212.3 ± 53.6 | 206.1 ± 56.7 | 214.0 ± 52.8 | 0.482 |
| 7POD | 225.6 ± 64.6 | 213.0 ± 76.9 | 229.3 ± 60.6 | 0.233 |
| 10 POD | 246.8 ± 79.6 | 231.9 ± 64.0 | 251.3 ± 83.5 | 0.269 |
| 14 POD | 261.5 ± 76.5 | 245.7 ± 58.4 | 266.1 ± 80.8 | 0.253 |
| 21 POD | 288.8 ± 93.7 | 234.5 ± 86.1 | 306.1 ± 89.9 | **0.002** |
|  |  |  |  |  |
| Kcal/kg/day |  |  |  |  |
| Admission | 3.9 ± 5.6 | 2.6 ± 2.9 | 4.2 ± 6.1 | 0.055 |
| 3 POD | 46.0 ± 15.1 | 47.8 ± 18.4 | 45.5 ± 14.1 | 0.467 |
| 5 POD | 66.0 ± 17.0 | 67.6 ± 20.5 | 65.6 ± 15.9 | 0.582 |
| 7POD | 70.1 ± 19.6 | 69.4 ± 27.2 | 70.3 ± 16.9 | 0.866 |
| 10 POD | 77.2 ± 23.3 | 75.5 ± 19.6 | 77.8 ± 24.4 | 0.664 |
| 14 POD | 82.2 ± 22.9 | 78.0 ± 17.5 | 83.4 ± 24.2 | 0.317 |
| 21 POD | 90.5 ± 29.7 | 76.7 ± 29.1 | 94.9 ± 28.7 | **0.016** |
|  |  |  |  |  |
| WAZ |  |  |  |  |
| At Norwood | -0.83 ± 1.06 | -0.71 ± 1.17 | -0.87 ± 1.03 | 0.225 |
| 5 POD | -0.94 ± 1.01 | -1.56 ± 1.24 | -0.80 ± 0.90 | **0.002** |
| 10 POD | -1.68 ± 1.03 | -2.11 ± 1.30 | -1.57 ± 0.92 | **0.030** |
| 14 POD | -2.00 ± 0.93 | -2.33 ± 1.00 | -1.93 ± 0.90 | 0.106 |
| 21 POD | -2.47 ± 1.02 | -2.85 ± 1.01 | -2.37 ± 0.85 | 0.056 |
| 28 POD | -2.71 ± 1.02 | -3.40 ± 1.14 | -2.57 ± 0.95 | **0.013** |
| 2 months | -2.50 ± 1.24 | -3.89 ± 1.16 | -2.26 ± 1.09 | **<0.001** |
| 3 months | -2.72 ± 1.11 | -3.44 ± 1.72 | -2.63 ± 0.99 | 0.051 |

BCPS: Bidirectional Cavopulmonary Shunt, POD: Postoperative Day

Supplementary Table ~~S2~~ S3

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Table ~~S2~~ S3. Comparison of ICU stay and hospital stay after BCPS | | | | | | |
| Variables | | ICU stay | p-value |  | Hospital stay | p-value |
| **Total** | | 5 (3-8) |  |  | 18 (11-32) |  |
|  |  |  |  |  |  |  |
| **WAZ at 2 months** | | |  |  |  |  |
|  | WAZ > -3 | 5 (3-8) | 0.410 |  | 18 (12-32) | 0.892 |
|  | WAZ ≤ -3 | 6 (3-8) |  |  | 24 (13-33) |  |
|  |  |  |  |  |  |  |
|  | WAZ > -2 | 5 (3-7) | 0.087 |  | 19 (13-31) | 0.750 |
|  | WAZ ≤ -2 | 5 (3-10) |  |  | 19 (11-34) |  |
|  |  |  |  |  |  |  |
| **WAZ at BCPS** | |  |  |  |  |  |
|  | WAZ > -3 | 5 (3-7) | 0.575 |  | 16 (11-30) | 0.303 |
|  | WAZ ≤ -3 | 5 (3-12) |  |  | 24 (14-38) |  |
|  |  |  |  |  |  |  |
|  | WAZ > -2 | 4 (3-7) | 0.624 |  | 16 (10-30) | 0.264 |
|  | WAZ ≤ -2 | 5 (3-8) |  |  | 18 (13-33) |  |

ICU: Intensive Care Unit, BCPS: Bidirectional Cavopulmonary Shunt, WAZ: Weight-for-age Z-Score

**Table ~~S3~~ S4**

|  |  |  |  |
| --- | --- | --- | --- |
| Table ~~S3~~ S4. Calorie intake after the Norwood procedure | | | |
|  | MBTS | RVPAC | p-value |
|  | n=95 | n=58 |  |
| Kcal/day |  |  |  |
| Admission | 12.3 ± 19.7 | 14.4 ± 19.4 | 0.528 |
| 3 POD | 149.2 ± 44.3 | 136.6 ± 55.8 | 0.127 |
| 5 POD | 210.7 ± 55.6 | 190.6 ± 65.7 | 0.046 |
| 7POD | 220.2 ± 68.0 | 207.1 ± 70.6 | 0.264 |
| 10 POD | 248.5 ± 91.1 | 214.6 ± 69.9 | 0.023 |
| 14 POD | 262.0 ± 80.2 | 233.7 ± 77.4 | 0.053 |
| 21 POD | 289.7 ± 109.1 | 257.4 ± 84.0 | 0.140 |
|  |  |  |  |
| Kcal/kg/day |  |  |  |
| Admission | 3.7 ± 5.7 | 4.5 ± 5.9 | 0.394 |
| 3 POD | 47.0 ± 14.7 | 42.6 ± 15.9 | 0.085 |
| 5 POD | 65.9 ± 17.3 | 59.7 ± 20.3 | 0.050 |
| 7POD | 69.0 ± 20.2 | 64.6 ± 21.2 | 0.199 |
| 10 POD | 78.4 ± 26.5 | 67.2 ± 20.5 | 0.009 |
| 14 POD | 82.8 ± 24.2 | 73.8 ± 22.7 | 0.038 |
| 21 POD | 91.4 ± 34.5 | 80.5 ± 25.8 | 0.113 |
|  |  |  |  |
| WAZ |  |  |  |
| At Norwood | -0.79 ± 1.12 | -0.75 ± 0.94 | 0.825 |
| 5 POD | -0.99 ± 1.02 | -0.83 ± 0.90 | 0.471 |
| 10 POD | -1.78 ± 1.01 | -1.50 ± 1.02 | 0.188 |
| 14 POD | -2.10 ± 0.91 | -1.83 ± 0.93 | 0.164 |
| 21 POD | -2.50 ± 0.85 | -2.41 ± 0.98 | 0.640 |
| 28 POD | -2.77 ± 1.01 | -2.54 ± 1.06 | 0.415 |
| 2 months | -2.42 ± 1.17 | -2.66 ± 1.39 | 0.495 |
| 3 months | -2.73 ± 0.99 | -2.70 ± 1.27 | 0.897 |

MBTS: Modified Blalock-Taussig Shunt, RVPAS: Right Ventricle to Pulmonary Artery Shunt, POD: Postoperative Day