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| **Supplemental Table 2**. Maternal and placental characteristics and growth measures of neonates in subjects with and without 6 month follow-up measures.1 |
|  |  | N | Follow-up | N | No Follow-up |
| **Maternal** |  |  |  |  |  |
|  | Age (y) | 24 | 28 ± 5 | 20 | **24 ± 5\*** |
|  | Primiparous Yes/No (%) | 27 | 7/20 (26%) | 22 | 7/15 (32%) |
|  | Height (m) | 24 | 1.66 ± 0.07 | 20 | 1.66 ± 0.09 |
|  | 1st Trimester Weight (kg) | 24 | 72.7 ± 14.1 | 17 | 76.1 ± 23.6 |
|  | 1st Trimester BMI (kg/m2) | 23 | 26.3 ± 6.1 | 18 | 27.8 ± 7.4 |
|  | Total Weight Gain (kg) | 21 | 12.1 ± 5.2 | 19 | 10.5 ± 5.6 |
|  | Currently smoking/non-smoking (%) | 25 | 6/19 (24%) | 20 | 9/11 (45%) |
| **Placenta** |  |  |  |  |  |
|  | Untrimmed weight (g) | 26 | 776 ± 145 | 21 | 777 ± 191 |
|  | Width (cm) | 26 | 16.7 ± 1.7 | 21 | 16.8 ± 2.3 |
|  | Length (cm) | 26 | 19.3 ± 2.3 | 21 | 19.8 ± 1.9 |
|  | Aspect Ratio | 26 | 1.2 ± 0.1 | 21 | 1.2 ± 0.1 |
| **Neonate** |  |  |  |  |  |
|  | Gestational Age at birth (wk) | 27 | 39.3 ± 1.2 | 21 | 39.4 ± 1.4 |
|  | Males/Females (% Male) | 27 | 16/11 (59%) | 21 | 11/10 (52%) |
|  | Birth weight (kg) | 27 | 3.4 ± 0.4 | 21 | 3.5 ± 0.4 |
|  | Crown-heel length (cm) | 25 | 51.2 ± 3.1 | 20 | 51.7 ± 3.0 |
|  | Weight-for-age z-score | 27 | 0.29 ± 0.85 | 21 | 0.47 ± 0.90 |
|  | Length-for-age z-score | 25 | 0.92 ± 1.58 | 20 | 1.19 ± 1.59 |
|  | Weight-for-length z-score | 24 | -0.69 ± 1.14 | 20 | -0.71 ± 2.05 |
|  | BMI-for-age z-score | 25 | -0.13 ± 0.94 | 20 | -0.22 ± 1.50 |
| **Neonatal FA2** |  |  |  |  |  |
|  | Myristic Acid, 14:0 | 22 | 303 ± 498 | 19 | 152 ± 69 |
|  | Palmitic Acid, 16:0 | 22 | 2234 ± 1827 | 19 | 1601 ± 524 |
|  | Stearic Acid, 18:0 | 22 | 512 ± 327 | 19 | 401 ± 112 |
|  | Total SFA | 22 | 3049 ± 2629 | 19 | 2154 ± 681 |
|  | Myristoleic Acid, 14:1 | 22 | 5 ± 8 | 19 | 3 ± 2 |
|  | Palmitoleic Acid, 16:1 | 22 | 242 ± 155 | 19 | 197 ± 75 |
|  | Oleic Acid, 18:1 | 22 | 847 ± 1379 | 19 | 486 ± 261 |
|  | Total MUFA | 22 | 1094 ± 1534 | 19 | 686 ± 330 |
|  | Linoleic Acid, 18:2 | 22 | 512 ± 1176 | 19 | 211 ± 214 |
|  | Arachidonic Acid, 20:4 | 22 | 674 ± 425 | 19 | 752 ± 446 |
|  | Total n-6 | 22 | 1186 ± 1299 | 19 | 963 ± 588 |
|  | α-Linolenic Acid, 18:3 | 22 | 16 ± 34 | 19 | 7 ± 6 |
|  | Eicosapentanoic Acid, 20:5 | 22 | 34 ± 4 | 19 | 36 ± 8 |
|  | Docosahexanoic Acid, 22:6 | 22 | 109 ± 62 | 19 | 113 ± 59 |
|  | Total n-3 | 22 | 159 ± 80 | 19 | 157 ± 67 |
|  | Total PUFA | 22 | 1346 ± 1364 | 19 | 1120 ± 651 |
|  | n-6/n-3 | 22 | 6.4 ± 3.7 | 19 | 5.8 ± 1.6 |
|  | Total FA | 22 | 5489 ± 5435 | 19 | 3960 ± 1375 |
|  | %SFA | 22 | 59 ± 8 | 19 | 56 ± 12 |
|  | %MUFA | 22 | 17 ± 4 | 19 | 17 ± 3 |
|  | %n-6 | 22 | 20 ± 6 | 19 | 23 ± 9 |
|  | %n-3 | 22 | 4 ± 1 | 19 | 4 ± 1 |
|  | %PUFA | 22 | 24 ± 7 | 19 | 27 ± 10 |
| 1Data are mean ± SD. 2Data is µM unless otherwise noted. \*P<0.05 vs follow-up group by Student’s t-test. |