**JPED-D-20-00276 - Supplementary Material**

**Supplementary Figure 1 - Third, 50th, and 97th centiles of estimated FM, BF% and FFM according to GA and sex (RP-BRISA Cohort 2010).**



**Supplementary Table 1 - Sociodemographic and pregnancy characteristics (RP-BRISA Cohort 2010).**

|  |  |
| --- | --- |
| **Characteristica** | **Total (n = 7427)** |
| **Sociodemographic** |  |  |
| Maternal age at birth, years | 27.00 | 6.25 |
| Pre-gestational weight, kg | 63.56 | 14.18 |
| Maternal height, m | 1.62 | 0.07 |
| BMI, kg/m2 | 24.30 | 5.00 |
| Mother’s skin color |  |  |
|  White | 4308 | 58.55 |
|  Other | 3050 | 41.45 |
| Smoking during pregnancy | 863 | 11.67 |
| Maternal education <12 years  | 5680 | 76.84 |
| Married or cohabiting | 6409 | 86.63 |
| Head of family’s occupation |  |  |
|  Non-manual  | 1525 | 23.42 |
|  Skilled manual  | 347 | 5.33 |
|  Semiskilled manual  | 3010 | 46.23 |
|  Unskilled manual  | 1611 | 24.74 |
|  Not within economically active population  | 18 | 0.28 |
| **Pregnancy** |  |  |
| Parity |  |  |
|  1 | 3252 | 44.00 |
|  2-3 | 3277 | 44.34 |
|  ≥ 4 | 862 | 11.66 |
| Previous abortion | 1318 | 17.83 |
| Previous stillbirth | 90 | 1.22 |
| Chronic hypertension | 203 | 2.74 |
| Gestational hypertension | 909 | 12.32 |
| Diabetes | 76 | 1.03 |
| Gestational diabetes | 448 | 6.07 |
| Caesarean section | 4345 | 58.50 |

Data are mean (SD) for continuous variables or absolute frequency (percentage) for categorical.

 a Excluded cases where ignored.

**Supplementary Table 2 - Body composition according to gestational age (RP-BRISA Cohort 2010).**

|  |  |  |  |
| --- | --- | --- | --- |
| **GA (w)** | **FM (g)** | **BF%** | **FFM (g)** |
| **Mean (SD)** | **Mean (SD)**  | **Mean (SD)** |
| 24 – 27 (*n* = 33) | 233.08 | 175.8 | 2.79 | 3.41 | 673.13 | 412.37 |
| 28 – 31 (*n* = 70) | 144.58 | 169.41 | 4.67 | 4.46 | 1267.14 | 455.65 |
| 32 – 36 (*n* = 754) | 282.11 | 134.68 | 9.56 | 3.3 | 2329.7 | 380.57 |
| 37 – 42 (*n* = 6570) | 378.07 | 127.13 | 11.15 | 2.82 | 2881.62 | 308.29 |
| All (*n* = 7427) | 368.01 | 131.89 | 10.9 | 3.04 | 2803.56 | 410.97 |

GA, gestational age; FM, fatty mass; BF%, body fat percent; FFM, fat-free mass.

**Supplementary Table 3 - Comparisons of FM, BF% and FFM between all non-stunted vs. stunted newborns, and non-wasted vs. wasted newborns (RP-BRISA Cohort 2010).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phenotype** |   | **No**  | **Yes** | **Difference (n, %)** |
| **Stunting** | FM | 367.33 | 191.49 | 175.84  | 47.87 |
| BF% | 11.06 | 7.41 | 3.65  | 31.00 |
| FFM | 2817 | 2402 | 414.93  | 14.73 |
| **Wasting** | FM | 363.04 | 58.56 | 304.48 | 83.86 |
| BF% | 10.97 | 4.34 | 6.63  | 60.48 |
| FFM | 2805 | 2198 | 606.88 | 21.63 |

FM, fatty mass; BF%, body fat percent; FFM, fat-free mass.