Supplementary material

Supplemental Table 1: Association between the rate of change in maternal anthropometry and the residual of neonatal fat mass†

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|  | **Neonatal Anthropometry** |
| **Maternal Anthropometry** | Residual Fat Mass (g) β (95% CI) |
| Mid-upper arm circumference (per 1mm change/week) |  |
|  Second Trimester (15-<28 wks) | 14.4 (4.89, 23.89)\* |
|  Third Trimester (28-40 wks) | 17.07 (4.05, 30.1)\* |
| Subscapular Skinfold(per 0.1 mmchange/week) |  |
|  Second Trimester (15-<28 wks) | 3.58 (-10.86, 18.03) |
|  Third Trimester (28-40 wks) | 2.44 (-5.89, 10.78) |
| Triceps skinfold(per 0.1mm change/week) |  |
|  Second Trimester (15-<28 wks) | 4.65 (0.89, 8.42)\* |
|  Third Trimester (28-40 wks) | 2.27 (-0.99, 5.55) |

\*P<0.05

† Values are beta coefficients (95% CI);adjusted for race, infant sex, parity, age, height, pre-pregnancy BMI, gestational age at delivery, neonatal measurement date, and baseline anthropometry value (n=1698)

Supplemental Table 2: Association between the tertile of rate of change in maternal anthropometry in the third trimester (28-40 wks) and the residual of neonatal fat mass†

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| **Maternal Anthropometry** | Residual Fat Mass (g) |
| Mid-Upper Arm Circumference (mm/week) |  |
|  -2.37 to 0.22 | -10.53 (-20.8, -0.27)\* |
|  0.22 to 0.56 | Reference |
|  0.57 to 3.276  | 1.42 (-8.77, 11.6) |
| Subscapular Skinfold(mm/week) |  |
|  -0.17 to 0.06 | -3.31 (-13.9, 7.31) |
|  0.07 to 0.12 | Reference |
|  0.13 to 0.54 | -0.48 (-11.4, 10.5) |
| Triceps Skinfold |  |
| (mm/week) |  |
|  -0.57 to -0.06 | -4.14 (-14.3, 6.04) |
|  -0.05 to 0.06 | Reference |
|  0.07 to 0.63 | 2.30 (-7.97, 12.6) |

\*P<0.05

†Values are beta coefficients (95% CI);adjusted for race, infant sex, parity, age, height, pre-pregnancy BMI, gestational age at delivery, neonatal measurement date, and baseline anthropometry value (n=1698)