**Supplemental Table 1.** Cord blood total adiponectin in relation to offspring clinical outcomes from birth to 5 years of age

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Body composition variables | Unadjusted Analysis | | |  | Adjusted Analysisa | | |
| n | Beta (95% CI) | *P* |  | n | Beta (95% CI) | *P* |
| **Birth** |  |  |  |  |  |  |  |
| Weight, kg | 141 | 0.02 (0.01; 0.04) | **0.003** |  | 139 | 0.02 (0.00; 0.03) | **0.014** |
| BMI percentiles | 141 | 1.01 (0.11; 1.91) | **0.029** |  | 139 | 0.46 (0.05; 0.87) | **0.029** |
| Sum 4 SFTs, mm | 134 | 0.07 (−0.02; 0.15) | 0.116 |  | 132 | 0.05 (−0.04; 0.13) | 0.314 |
| Fat mass, kg | 134 | 0.01 (0.00; 0.01) | **0.015** |  | 132 | 0.00 (0.00; 0.01) | 0.081 |
| Body fat (%) | 134 | 0.06 (−0.03; 0.15) | 0.156 |  | 132 | 0.04 (−0.05; 0.13) | 0.414 |
| Lean body mass, kg | 134 | 0.02 (0.01; 0.03) | **0.002** |  | 132 | 0.01 (0.00; 0.02) | **0.006** |
| **1 year** |  |  |  |  |  |  |  |
| Weight, kg | 131 | 0.02 (−0.02; 0.05) | 0.297 |  | 131 | 0.03 (0.00; 0.07) | 0.061 |
| BMI percentiles | 131 | 0.66 (−0.36; 1.68) | 0.205 |  | 131 | 0.75 (−0.27; 1.77) | 0.146 |
| Sum 4 SFTs, mm | 126 | −0.01 (−0.16; 0.14) | 0.894 |  | 126 | 0.04 (−0.12; 0.19) | 0.643 |
| Fat mass, kg | 126 | −0.01 (0.01; 0.02) | 0.638 |  | 126 | 0.01 (−0.01; 0.03) | 0.241 |
| Body fat (%) | 126 | 0.00 (−0.10; 0.10) | 0.994 |  | 126 | 0.03 (−0.08; 0.13) | 0.622 |
| Lean body mass, kg | 126 | 0.02 (−0.01; 0.04) | 0.208 |  | 126 | 0.03 (0.00; 0.05) | **0.037** |
| Area sag pp, mm2 | 120 | −0.01 (−0.21; 0.20) | 0.934 |  | 120 | −0.01 (−0.23; 0.21) | 0.947 |
| Area sag sc, mm2 | 121 | 0.41 (−0.06; 0.88) | 0.085 |  | 121 | 0.44 (−0.06; 0.94) | 0.085 |
| Area ax sc, mm2 | 123 | 0.34 (−0.21; 0.88) | 0.224 |  | 123 | 0.28 (−0.29; 0.86) | 0.327 |
| **2 years** |  |  |  |  |  |  |  |
| Weight, kg | 130 | 0.03 (−0.02; 0.08) | 0.186 |  | 130 | 0.04 (−0.01; 0.09) | 0.093 |
| BMI percentiles | 130 | 0.75 (−0.21; 1.72) | 0.124 |  | 130 | 0.79 (−0.19; 1.78) | 0.114 |
| Sum 4 SFTs, mm | 90 | 0.16 (0.00; 0.31) | 0.055 |  | 90 | 0.17 (0.00; 0.34) | **0.047** |
| Fat mass, kg | 90 | 0.02 (0.00; 0.05) | 0.078 |  | 90 | 0.02 (0.00; 0.05) | 0.089 |
| Body fat (%) | 90 | 0.10 (−0.01; 0.21) | 0.070 |  | 90 | 0.11 (−0.01; 0.23) | 0.067 |
| Lean body mass, kg | 90 | 0.02 (−0.02; 0.07) | 0.337 |  | 90 | 0.02 (−0.03; 0.07) | 0.386 |
| Area sag pp, mm2 | 89 | 0.50 (0.14; 0.86) | **0.008** |  | 89 | 0.48 (0.09; 0.88) | **0.017** |
| Area sag sc, mm2 | 89 | 0.49 (−0.03; 1.01) | 0.062 |  | 89 | 0.64 (0.08; 1.19) | **0.024** |
| Area ax sc, mm2 | 89 | 0.45 (−0.15; 1.05) | 0.137 |  | 89 | 0.59 (−0.03; 1.21) | 0.064 |
| **3 years** |  |  |  |  |  |  |  |
| Weight, kg | 124 | 0.02 (−0.04; 0.08) | 0.467 |  | 124 | 0.04 (−0.03; 0.10) | 0.248 |
| BMI percentiles | 124 | 0.30 (−0.63; 1.23) | 0.529 |  | 124 | 0.53 (−0.40; 1.46) | 0.265 |
| Sum 4 SFTs, mm | 90 | 0.19 (0.03; 0.36) | **0.022** |  | 90 | 0.23 (−0.07; 0.39) | **0.005** |
| Fat mass, kg | 90 | 0.03 (0.00; 0.06) | 0.057 |  | 90 | 0.03 (0.00; 0.06) | **0.030** |
| Lean body mass, kg | 90 | 0.01 (−0.05; 0.07) | 0.652 |  | 90 | 0.01 (−0.05; 0.07) | 0.672 |
| Area sag pp, mm2 | 80 | 0.53 (−0.01; 1.06) | 0.056 |  | 80 | 0.48 (−0.10; 1.07) | 0.105 |
| Area sag sc, mm2 | 80 | 0.51 (−0.06; 1.08) | 0.076 |  | 80 | 0.59 (0.00; 1.18) | **0.049** |
| Area ax sc, mm2 | 79 | 0.64 (−0.21; 1.48) | 0.136 |  | 79 | 0.75 (−0.13; 1.63) | 0.094 |
| **4 years** |  |  |  |  |  |  |  |
| Weight, kg | 124 | 0.03 (−0.04; 0.10) | 0.341 |  | 124 | 0.04 (−0.03; 0.12) | 0.211 |
| BMI percentiles | 124 | 0.56 (−0.39; 1.50) | 0.246 |  | 124 | 0.71 (−0.24; 1.66) | 0.141 |
| Sum 4 SFTs, mm | 80 | 0.13 (−0.04; 0.30) | 0.118 |  | 80 | 0.17 (−0.01; 0.35) | 0.060 |
| Fat mass, kg | 80 | 0.03 (−0.01; 0.06) | 0.118 |  | 80 | 0.03 (−0.01; 0.06) | 0.091 |
| Body fat (%) | 80 | 0.11 (−0.02; 0.24) | 0.106 |  | 80 | 0.14 (0.01; 0.26) | **0.034** |
| Lean body mass, kg | 80 | 0.03 (−0.05; 0.11) | 0.480 |  | 80 | 0.01 (−0.07; 0.10) | 0.733 |
| Area sag pp, mm2 | 75 | 0.11 (−0.57; 0.78) | 0.751 |  | 75 | 0.03 (−0.71; 0.78) | 0.926 |
| Area sag sc, mm2 | 74 | 0.41 (−0.18; 0.99) | 0.169 |  | 74 | 0.50 (−0.13; 1.12) | 0.116 |
| Area ax sc, mm2 | 75 | 0.41 (−0.44; 1.26) | 0.336 |  | 75 | 0.58 (−0.35; 1.50) | 0.217 |
| **5 years** |  |  |  |  |  |  |  |
| Weight, kg | 120 | 0.02 (−0.08; 0.12) | 0.672 |  | 120 | 0.04 (−0.06; 0.15) | 0.410 |
| BMI percentiles | 119 | 0.22 (−0.80; 1.24) | 0.667 |  | 119 | 0.54 (−0.49; 1.56) | 0.303 |
| Sum 4 SFTs, mm | 89 | 0.07 (−0.15; 0.29) | 0.507 |  | 89 | 0.11 (−0.12; 0.33) | 0.347 |
| Fat mass, kg | 89 | 0.02 (−0.03; 0.06) | 0.466 |  | 89 | 0.02 (−0.03; 0.07) | 0.377 |
| Body fat (%) | 89 | 0.07 (−0.09; 0.23) | 0.365 |  | 89 | 0.08 (−0.07; 0.22) | 0.305 |
| Lean body mass, kg | 89 | 0.00 (−0.08; 0.08) | 0.969 |  | 89 | 0.02 (−0.07; 0.10) | 0.715 |
| Area sag pp, mm2 | 74 | 0.27 (−0.39; 0.93) | 0.413 |  | 74 | 0.44 (−0.27; 1.15) | 0.222 |
| Area sag sc, mm2 | 75 | 0.26 (−0.33; 0.85) | 0.387 |  | 75 | 0.34 (−0.33; 1.00) | 0.316 |
| Area ax sc, mm2 | 76 | 0.22 (−0.65; 1.08) | 0.621 |  | 76 | 0.35 (−0.62; 1.32) | 0.479 |
| SAT volume, cm3 | 33 | 2.20 (−9.70; 14.11) | 0.708 |  | 33 | 7.68 (−5.56; 20.92) | 0.243 |
| VAT volume, cm3 | 33 | 0.27 (−2.28; 2.82) | 0.832 |  | 33 | 1.60 (−1.27; 4.48) | 0.261 |
| NAT volume, cm3 | 33 | −1.44 (−27.11; 24.23) | 0.909 |  | 33 | −8.33 (−19.58; 36.24) | 0.544 |

Data are presented as the regression coefficient beta (95% CI) from linear regression analyses.  
aAdjusted for maternal pre-pregnancy BMI, gestational weight gain, pregnancy duration, sex (except for BMI percentiles), ponderal index at birth, group, and mode of infant feeding (exclusively or partially breastfed) at 4 months postpartum (except at birth).   
*P*-values ≤ 0.05 are given in bold.  
Area ax sc, area of subcutaneous fat in axial plane; area sag pp, area of preperitoneal fat in sagittal plane; area sag sc, area of subcutaneous fat in sagittal plane; BMI, body mass index; HMW, high molecular weight; NAT, nonadipose tissue; SAT, subcutaneous adipose tissue; SFT, skinfold thickness; VAT, visceral adipose tissue.

**Supplemental Table 2.** Total adiponectin in plasma of 3-year-old children in relation to their body composition at 3, 4, and 5 years of age

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Body composition variables | n | Unadjusted Analysis | |  | Adjusted Analysisa | |
| Beta (95% CI) | *P* |  | Beta (95% CI) | *P* |
| **3 years** |  |  |  |  |  |  |
| Weight, kg | 40 | 0.14 (−0.04; 0.31) | 0.120 |  | 0.18 (0.00; −0.37) | 0.053 |
| BMI percentiles | 40 | 0.14 (−2.87; 3.14) | 0.927 |  | 0.09 (−3.15; 3.33) | 0.954 |
| Sum 4 SFTs, mm | 39 | 0.02 (−0.40; 0.43) | 0.929 |  | −0.04 (−0.52; 0.44) | 0.861 |
| Fat mass, kg | 39 | 0.03 (−0.04; 0.09) | 0.384 |  | −0.03 (−0.05; 0.10) | 0.478 |
| Body fat (%) | 39 | 0.00 (−0.29; 0.30) | 0.980 |  | −0.05 (−0.38; 0.28) | 0.747 |
| Lean body mass, kg | 39 | 0.10 (−0.02; 0.23) | 0.109 |  | 0.14 (0.01; 0.28) | **0.036** |
| Area sag pp, mm2 | 39 | −0.15 (−1.33; 1.03) | 0.800 |  | −0.19 (−1.36; 0.98) | 0.740 |
| Area sag sc, mm2 | 39 | −0.01 (−1.33; 1.30) | 0.983 |  | −0.23 (−1.73; 1.27) | 0.754 |
| Area ax sc, mm2 | 39 | −0.28 (−2.28; 1.71) | 0.775 |  | −0.44 (−2.63; 1.75) | 0.683 |
| **4 years** |  |  |  |  |  |  |
| Weight, kg | 38 | 0.15 (−0.05; 0.36) | 0.144 |  | 0.19 (−0.05; 0.42) | 0.115 |
| BMI percentiles | 38 | 0.52 (−2.73; 3.76) | 0.749 |  | 0.66 (−2.91; 4.23) | 0.708 |
| Sum 4 SFTs, mm | 34 | −0.00 (−0.44; 0.43) | 0.987 |  | −0.04 (−0.60; 0.52) | 0.882 |
| Fat mass, kg | 34 | 0.03 (−0.05; 0.11) | 0.402 |  | 0.03 (−0.07; 0.13) | 0.578 |
| Body fat (%) | 34 | 0.03 (−0.29; 0.34) | 0.866 |  | −0.02 (−0.42; 0.38) | 0.922 |
| Lean body mass, kg | 34 | 0.11 (−0.06; 0.28) | 0.181 |  | 0.14 (−0.05; 0.32) | 0.154 |
| Area sag pp, mm2 | 34 | −1.01 (−2.57; 0.55) | 0.195 |  | −1.24 (−3.10; 0.63) | 0.185 |
| Area sag sc, mm2 | 34 | −0.05 (−1.39; 1.28) | 0.936 |  | −0.18 (−1.82; 1.46) | 0.823 |
| Area ax sc, mm2 | 35 | 0.28 (−1.45; 2.00) | 0.746 |  | 0.82 (−1.28; 2.92) | 0.430 |
| **5 years** |  |  |  |  |  |  |
| Weight, kg | 37 | 0.16 (−0.11; 0.44) | 0.240 |  | 0.21 (−0.12; 0.54) | 0.211 |
| BMI percentiles | 37 | 0.20 (−3.00; 3.40) | 0.901 |  | 0.473 (−3.26; 4.21) | 0.797 |
| Sum 4 SFTs, mm | 37 | 0.10 (−0.50; 0.70) | 0.739 |  | 0.07 (−0.64; 0.78) | 0.839 |
| Fat mass, kg | 37 | 0.05 (−0.07; 0.17) | 0.375 |  | 0.05 (−0.09; 0.19) | 0.453 |
| Body fat (%) | 37 | 0.09 (−0.34; 0.53) | 0.664 |  | 0.04 (−0.42; 0.51) | 0.847 |
| Lean body mass, kg | 37 | 0.11 (−0.09; 0.31) | 0.270 |  | 0.16 (−0.06; 0.37) | 0.158 |
| Area sag pp, mm2 | 34 | −0.30 (−1.66; 1.06) | 0.656 |  | −0.13 (−1.75; 1.48) | 0.868 |
| Area sag sc, mm2 | 34 | 0.47 (−0.97; 1.92) | 0.510 |  | 0.04 (−1.69; 1.77) | 0.966 |
| Area ax sc, mm2 | 35 | 0.02 (−2.14; 2.17) | 0.986 |  | −0.33 (−2.91; 2.24) | 0.793 |
| SAT volume, cm3 | 22 | −9.36 (−34.24; 15.53) | 0.442 |  | −12.15 (−43.96; 19.67) | 0.424 |
| VAT volume, cm3 | 22 | −1.70 (−6.82; 3.41) | 0.496 |  | −1.39 (−7.91; 5.13) | 0.653 |
| NAT volume, cm3 | 22 | 14.36 (37.34; 66.05) | 0.569 |  | −5.16 (−56.44; 46.12) | 0.831 |

Data are presented as the regression coefficient beta (95% CI) from linear regression analyses.  
aAdjusted for maternal pre-pregnancy BMI, gestational weight gain, pregnancy duration, sex (except for BMI percentiles), ponderal index at birth, group, and mode of infant feeding (exclusively or partially breastfed) at 4 months postpartum (except at birth).  
*P*-values ≤ 0.05 are given in bold.  
Area ax sc, area of subcutaneous fat in axial plane; area sag pp, area of preperitoneal fat in sagittal plane; area sag sc, area of subcutaneous fat in sagittal plane; BMI, body mass index; HMW, high molecular weight; NAT, nonadipose tissue; SAT, subcutaneous adipose tissue; SFT, skinfold thickness; VAT, visceral adipose tissue.