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| **Table S1:** Coefficient estimates (and 95% confidence interval) for the regression of age at adiposity rebound on CVD risk factors at 13.5 years. Sample comprised of children with known rebound and cardio-metabolic markers at 13.5 years (N = 451) |
|   |  | **BMI- derived Adiposity Rebound** |  | **Skinfold-derived Adiposity Rebound** |
| **(z-score)** | **(z-score)** |
|   |  | *Model 1* |  | *Model 2* |  | *Model 3* |  | *Model 4* |  | *Model 1* |  | *Model 2* |  | *Model 3* |  | *Model 4* |
|   |   | Estimate |   | Estimate |   | Estimate |   | Estimate |   | Estimate  |   | Estimate |   | Estimate |   | Estimate |
| (95% CI) | (95% CI) | (95% CI) | (95% CI) |   | (95% CI) | (95% CI) | (95% CI) | (95% CI) |
| BMI |  | -0.52 |  | -0.46 |  | -0.36 |  | - |  | -0.53 |  | -0.48 |  | -0.44 |  | - |
| (SDS) |  | (-0.59, 0.44)\*\* |  | (-0.55, -0.39)\*\* |  | (-0.43, -0.29)\*\* |  | - |  | (-0.61, -0.45) \*\* |  | (-0.56, -0.39)\*\* |  | (-0.52, -0.36)\*\* |  | - |
| Fat mass |  | -0.37 |  | -0.33 |  | -0.26 |  | - |  | -0.45 |  | -0.40 |  | -0.37 |  | - |
| (SDS) |  | (-0.45, -0.29) \*\* |  | (-0.41, 0.25)\*\* |  | (-0.34, -0.19)\*\* |  | - |  | (-0.52, -0.37) \*\* |  | (-0.48, -0.32)\*\* |  | (-0.45, -0.29)\*\* |  | - |
| Fasting glucose  |   | 0.00 |   | -0.01 |   | -0.03 |   | -0.01 |   | 0.04 |   | 0.05 |   | 0.04 |   | 0.04 |
| (SDS) | (-0.10, 0.09) | (-0.10, 0.09) | (-0.13, 0.07) | (-0.12, 0.09) |   | (-0.06, 0.14) | (-0.05, 0.16) | (-0.07, 0.14) | (-0.08, 0.16) |
| Fasting insulin  |   | -0.18 |   | -0.15 |   | -0.12 |   | -0.01 |   | -0.29 |  | -0.24 |  | -0.22 |   | -0.07 |
| (SDS) | (-0.27, -0.10)\*\* | (-0.23, -0.05)\*\* | (-0.22, -0.03)\*\* | (-0.10, 0.08) | (-0.38, -0.21)\*\* | (-0.33, -0.14)\*\* | (-0.32, -0.14)\*\* | (-0.17, 0.03) |
| Total cholesterol |   | 0.03 |   | -0.01 |   | -0.03 |   | 0.04 |   | 0.03 |   | -0.03 |   | -0.04 |   | 0.04 |
| (SDS) | (-0.06, 0.12) | (-0.11, 0.09) | (-0.13, 0.07) | (-0.06, 0.15) | (-0.07, 0.12) | (-0.13, 0.07) | (-0.13, 0.07) | (-0.07, 0.16) |
| Triglycerides  |   | 0.03 |   | 0.01 |   | 0.02 |   | 0.05 |   | 0.01 |   | -0.01 |   | 0.00 |   | 0.04 |
| (SDS) | (-0.06, 0.12) | (-0.09, 0.10) | (-0.08, 0.12) | (-0.06, 0.15) | (-0.09, 0.11) | (-0.11, 0.09) | (-0.11, 0.10) | (-0.07, 0.16) |
| HDL-cholesterol |   | 0.10 |   | 0.08 |   | 0.04 |   | 0.03 |   | 0.11 |  | 0.08 |  | 0.07 |   | 0.03 |
| (SDS) | (0.01, 0.19)\* | (-0.02, 0.17) | (-0.06, 0.14) | (-0.06, 0.14) | (0.02, 0.21)\* | (-0.02, 0.18) | (-0.03, 0.17) | (-0.08, 0.15) |
| LDL-cholesterol |   | -0.02 |   | -0.05 |   | -0.06 |   | 0.02 |   | -0.03 |   | -0.08 |   | -0.07 |   | 0.03 |
|  (SDS)  | (-0.11, 0.07) | (-0.15, 0.04) | (-0.16, 0.04) | (-0.08, 0.12) | (-0.12, 0.07) | (-0.18, 0.02) | (-0.17, 0.04) | (-0.09, 0.14) |
| HOMA-IR |   | -0.17 |   | -0.13 |   | -0.12 |   | -0.03 |   | -0.27 |  | -0.22 |  | -0.21 |   | -0.06 |
| (SDS)  | (-0.26, -0.09)\*\*  | (-0.23, -0.04)\*\* | (-0.22, -0.03)\* | (-0.13, 0.07) | (-0.36, -0.18)\*\* | (-0.31, -0.12)\*\* | (-0.31, -0.12)\*\* | (-0.16, 0.04) |
| Systolic Blood Pressure |   | -0.21 |   | -0.16 |   | -0.14 |   | -0.10 |   | -0.25 |  | -0.22 |  | -0.22 |   | -0.16 |
| (SDS) | (-0.29, -0.12)\*\* | (-0.25, -0.07)\* | (-0.24, -0.05)\* | (-0.20,0.00)\* | (-0.34, -0.16)\*\* | (-0.32, -0.12)\*\* | (-0.32, -0.12)\*\* | (-0.27, -0.06)\*\* |
| Diastolic Blood Pressure  |   | -0.08 |   | -0.04 |  | -0.04 |   | -0.03 |   | -0.05 |  | -0.02 |  | -0.03 |   | -0.01 |
| (SDS) | (-0.17, 0.01) | (-0.13, 0.06) | (-0.14, 0.06) |  | (-0.13, 0.07) |  | (-0.14, 0.05) |  | (-0.12, 0.07) |  | (-0.13, 0.07) |  | (-0.16, 0.11) |
| Model 1 was adjusted for age at 13.5 and sex. Model 2 was adjusted for sex, age at 13.5, height, socio-economic status, pubertal stage, and maternal gestational diabetes. Model 3 was further adjusted for BMI/skinfolds at the time of rebound. Model 4 was further adjusted for BMI or skinfold at time of rebound and fat mass at 13.5 years. SDS, standard deviation score. \*\*p-value < 0.001, \*p-value < 0.05. |
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