Supplementary Table 4 – Accelerometry estimated MVPA, total SB and associations with WC z-scores with NHANES data removed

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Waist Circumference (WC) Z-score Percentiles** | | | | | | | | |
| **Model** | **Exposure** |  | **5th** | **10th** | **15th** | **25th** | **50th** | **75th** | **85th** | **90th** | **95th** |
| 1a | MVPA | Beta | -0.02 | -0.03 | -0.06 | -0.07 | -0.16 | -0.24 | -0.30 | -0.31 | -0.33 |
|  |  | SE | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 | 0.05 | 0.05 | 0.07 |
|  |  | *P*-value | 0.360 | 0.175 | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| 2 | MVPA | Beta | 0.02 | -0.01 | -0.04 | -0.07 | -0.15 | -0.28 | -0.31 | -0.32 | -0.32 |
|  |  | SE | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.04 | 0.05 | 0.07 | 0.08 |
|  |  | *P*-value | 0.489 | 0.711 | 0.040 | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 1b | Total SB | Beta | 0.02 | 0.01 | 0.02 | 0.02 | 0.04 | 0.04 | 0.06 | 0.06 | 0.08 |
|  |  | SE | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 |
|  |  | *P*-value | 0.039 | 0.117 | 0.001 | 0.005 | <0.001 | <0.001 | 0.002 | 0.027 | 0.006 |
| 2 | Total SB | Beta | 0.02 | 0.01 | 0.01 | 0.00 | 0.01 | -0.02 | 0.00 | -0.01 | 0.02 |
|  |  | SE | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 |
|  |  | *P*-value | 0.054 | 0.220 | 0.292 | 0.606 | 0.488 | 0.271 | 0.912 | 0.775 | 0.634 |

Abbreviations: MVPA, moderate-to-vigorous physical activity; SB, sedentary behavior; SE, standard error (estimated from 100 bootstrap samples). Model 1a: MVPA is the primary predictor and includes the covariates age, race, household income, accelerometer wear time, year and study. Model 1b: Total SB is the primary predictor and includes the covariates age, race, household income, accelerometer wear time, year and study. In model 2, MVPA and total SB are both included as predictors in the same model along with age, race, household income, accelerometer wear time, year and study.