Supplementary Table 2 – Accelerometer estimated MVPA and total SB and association with BMI Z-scores calculated using UK and US reference population data

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Body Mass Index (BMI) Z-score Percentiles: UK 1990 Growth Chart** | | | | | | | | |
| **Exposure** |  | **5th** | **10th** | **15th** | **25th** | **50th** | **75th** | **85th** | **90th** | **95th** |
| MVPA | Beta | -0.01 | -0.05 | -0.11 | -0.16 | -0.29 | -0.43 | -0.39 | -0.34 | -0.30 |
|  | SE | 0.05 | 0.03 | 0.04 | 0.04 | 0.04 | 0.03 | 0.04 | 0.05 | 0.04 |
|  | *P*-value | 0.908 | 0.088 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
|  |  |  |  |  |  |  |  |  |  |  |
| Total SB | Beta | -0.01 | -0.02 | -0.02 | -0.02 | -0.02 | -0.04 | -0.04 | -0.03 | -0.02 |
|  | SE | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
|  | *P*-value | 0.771 | 0.177 | 0.116 | 0.162 | 0.179 | 0.001 | 0.044 | 0.099 | 0.163 |
|  |  | **Body Mass Index (BMI) Z-score Percentiles: US CDC Growth Chart** | | | | | | | | |
| **Exposure** |  | **5th** | **10th** | **15th** | **25th** | **50th** | **75th** | **85th** | **90th** | **95th** |
| MVPA | Beta | 0.00 | -0.04 | -0.10 | -0.14 | -0.26 | -0.35 | -0.31 | -0.25 | -0.21 |
|  | SE | 0.06 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03 |
|  | *P*-value | 0.994 | 0.223 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
|  |  |  |  |  |  |  |  |  |  |  |
| Total SB | Beta | -0.01 | -0.01 | -0.02 | -0.02 | -0.02 | -0.03 | -0.03 | -0.02 | -0.02 |
|  | SE | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
|  | *P*-value | 0.779 | 0.470 | 0.240 | 0.144 | 0.221 | 0.016 | 0.042 | 0.032 | 0.056 |

Abbreviations: MVPA, moderate-to-vigorous physical activity; SB, sedentary behavior; SE, standard error (estimated from 100 bootstrap samples). MVPA and total SB were included in the same model along with the covariates age, race, household income, accelerometer wear time, year and study.