|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Males** |  |  |  |  |
| **Adiposity** | **Activity** | **N** | **Linear regression** | **Instrumental variable regression (weighted allelic score with 32 SNPs)** |
|  |  |  | **Coefficient**  | **95% CI** | **P** | **F-statistic**  | **Partial R2** | **Coefficient**  | **95% CI** | **P** | **P (DWH)** |
| Body mass index  | Total physical activity | 2044 | -0.16 | -0.21, -0.12 | 9.3x10-14 | 63.1 | 0.03 | -0.17 | -0.42, 0.07 | 0.17 | 0.93 |
|  | Moderate-to-vigorous activity\* |  | -0.23 | -0.27, -0.19 | 3.4x10-26 |  |  | -0.23 | -0.48, 0.01 | 0.06 | 0.97 |
|  | Sedentary time |  | 0.07 | 0.02, 0.11 | 0.003 |  |  | 0.14 | -0.11, 0.39 | 0.26 | 0.54 |
| Fat mass index | Total physical activity | 2022 | -0.22 | -0.26, 0.17 | 2.7x10-23 | 50.9 | 0.02 | -0.24 | -0.51, 0.03 | 0.09 | 0.88 |
|  | Moderate-to-vigorous activity\* |  | -0.28 | -0.32, 0.24 | 1.7x10-38 |  |  | -0.30 | -0.56, -0.03 | 0.03 | 0.88 |
|  | Sedentary time |  | 0.10 | 0.06, 0.14 | 7.4x10-6 |  |  | 0.19 | -0.08, 0.45 | 0.16 | 0.48 |
| **Females** |  |  |  |  |  |  |  |  |  |  |  |
| **Adiposity** | **Activity** | **N** | **Linear regression** | **Instrumental variable regression (weighted allelic score with 32 SNPs)** |
|  |  |  | **Coefficient**  | **95% CI** | **P** | **F-statistic**  | **Partial R2** | **Coefficient**  | **95% CI** | **P** | **P (DWH)** |
| Body mass index  | Total physical activity | 2252 | -0.09 | -0.13, -0.05 | 1.6x10-5 | 61.9 | 0.03 | -0.19 | -0.44, 0.06 | 0.14 | 0.44 |
|  | Moderate-to-vigorous activity\* |  | -0.11 | -0.16, -0.07 | 4.4x10-8 |  |  | -0.13 | -0.38, 0.12 | 0.31 | 0.90 |
|  | Sedentary time |  | 0.04 | 0.00, 0.08 | 0.05 |  |  | 0.25 | 0.00, 0.50 | 0.06 | 0.10 |
| Fat mass index | Total physical activity | 2222 | -0.15 | -0.19, -0.11 | 5.4x10-13 | 57.4 | 0.03 | -0.17 | -0.43, 0.09 | 0.19 | 0.87 |
|  | Moderate-to-vigorous activity\* |  | -0.16 | -0.20, -0.12 | 2.9x10-15 |  |  | -0.11 | -0.37, 0.14 | 0.38 | 0.70 |
|  | Sedentary time |  | 0.08 | 0.03, 0.12 | 3.7x10-4 |  |  | 0.24 | -0.03, 0.50 | 0.08 | 0.21 |