**Supplemental Table 1.** Effect of (a) BMI and (b) percent body fat on the predictive accuracy of PAL selected accelerometer predictive equations.

(a)

|  |  |  |
| --- | --- | --- |
| **Equation** | **Effect on PAL difference (95% CI)** | **P-value** |
| **AC1** | -0.11 (-0.24, 0.03) |  0.445 |
| **AC2** | -0.06 (-0.21, 0.09) |  0.320 |
| **AG1** | 0.58 (0.40, 0.76) | <0.001\* |
| **AG2** | 0.37 (0.21, 0.53) | <0.001\* |
| **AG3** | 0.00 (-0.16, 0.16) |  0.571 |
| **RT3** | 0.15 (-0.06, 0.36) |  0.002 |

 BMI reference: 27.9:19.7; Adjusted to: age=13, ethnicity=black, sex=female.

(b)

|  |  |  |
| --- | --- | --- |
| **Equation** | **Effect on PAL difference (95% CI)** | **P-value** |
| **AC1** | 0.05 (-0.14, 0.23) |  0.784 |
| **AC2** | 0.08 (-0.12, 0.27) |  0.470 |
| **AG1** | 0.57 (0.36, 0.78) | <0.001\* |
| **AG2** | 0.35 (0.17, 0.52) | <0.001\* |
| **AG3** | 0.02 (-0.15, 0.19) |  0.701 |
| **RT3** | 0.15 (-0.14, 0.43) |  0.027 |

Percent body fat reference: 39.0:20.5; Adjusted to: age=13, ethnicity=black, sex=female.

 Abbreviations: IC, indirect calorimetry, AC, Actical; AG, Actigraph.

 \* Significant at P<0.001.