Supplemental Digital Content 1. ActiGraph prediction models.

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| **Reference** | **Prediction Equation** |
| Freedson (11) | MET3.5 = 2.757 + (0.0015 \* counts.min-1) – (0.08957 \* age (yr)) – (0.000038 \* counts.min-1 \* age (yr)) |
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| Puyau (15) | AEE (kcal.kg-1.min-1) = 0.0183 + (0.000010 \* counts.min-1) |
| Treuth (20) | MET3.5 = 2.01 + (0.000856 \* counts.min-1) |
| Trost (24) | kcal.min-1 = -2.23 + (0.0008 \* counts.min-1) + (0.08 \* body mass (kg)) |

AEE=activity energy expenditure; MET3.5 = activity VO2 / 3.5 ml.kg-1.min-1.