**Supplemental Digital Content 7. Table: Linear regression equations of energy availability measured by accelerometry with energy availability measured by doubly labelled water.**

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|  | Equation | R2 | P |
| All Phases | Y = 0.94\*X + 10.36 | 0.76 | <0.001 |
| Phase 1 | Y = 0.93\*X + 10.10 | 0.70 | <0.001 |
| Phase 2 | Y = 0.76\*X + 8.09 | 0.47 | <0.001 |
| Phase 3 | Y = 1.12\*X + 8.92 | 0.71 | <0.001 |

Linear regression equations of energy availability measured by accelerometry (Energy availability from moderate and vigorous physical activity, EAmvpa) and by doubly labelled water (energy availability from total physical activity, EAtpa). Where Y = EAtpa and X = EAmvpa. R2:coefficient of determination.