Attachment 40 Summary of the Literature Informing Power Analyses

Table 1. Summary of Current Research Informing PYFP Evaluation Power Analyses

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Author** | **Outcomes** | **Population** | **Design** | **ICC** | **Notes** |
| **Robbins et al., 2013** | Minutes of MVPA | Middle school girls | Cluster Randomized Trial (CRT); two levels (school, student), with randomization at level 2 (school) | .02 assumed; no ICC reported | — |
| **Vizcaino et al., 2008** | BMI | School children; average age, 9 | CRT; 2 levels (school, kid), with randomization at level 2 (school) | .009 assumed; no ICC reported | — |
| **Lubans et al., 2010** | BMI | Eighth-grade girls | CRT; 2 levels(school, kid), with randomization at level 2 (school) | .01 assumed; reported ICC = .03 | Also reported ICC obtained for MVPA (.09)  |
| **Laris, Russell, & Potter, 2007** | Skills, minutes of PA, strength, and VO2 max | Fourth- and fifth-grade students | Quasi-experiment; 2 levels, with pretest, posttest, and delayed posttest | .006 assumed for minutes of PA and .011 assumed for VO2 max; no ICCs reported  | — |
| **Kriemler et al., 2010** | Body fat, aerobic fitness, and PA | First- and fifth-grade students | CRT; three levels (school, class, student), with randomization at level 2 (class) | .10 assumed; .06 for reported body fat, .03 for aerobic fitness, .15 for PA, and .08 for MVPA | These ICCs are for class level. The researchers assessed school level and found it to be negligible.  |