**Table S2. Varsity athlete measures of central tendency, reliability, and effect sizes for ImPACT**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **n** | | **Mean (SD)** | **Median**  **(Q1 - Q3)** | **ICCc**  **(lower, upper)** | **ICCa**  **(lower, upper)** | **Bias**  **(lower, upper)** | | **Cohen's D** |
| **Verbal Memory** | | | | | | | | | | |
| Year 1 | 988 | | 89.54 (9.73) | | 92 (84 - 98) | 0.45 (0.40, 0.50) | 0.45 (0.40, 0.50) | 0.95\* (-18.72, 20.62) λ | | 0.10 |
| Year 2 | 988 | | 90.48 (9.39) | | 93 (85 - 98) |  |  |  | |  |
| Year 1 | 201 | | 89.38 (10.19) | | 92 (84 - 98) | 0.40 (0.28, 0.51) | 0.39 (0.27, 0.57) | 2.50\* (-17.58, 22.58) | | 0.27 |
| Year 3 | 201 | | 91.89 (8.51) | | 95 (88 - 99) |  |  |  | |  |
| **Visual Memory** | | | | | | | | | | |
| Year 1 | 988 | | 81.24 (12.48) | | 83 (74 - 91) | 0.53 (0.48, 0.57) | 0.53 (0.48, 0.69) | 1.63\* (-21.52, 24.77) | | 0.13 |
| Year 2 | 988 | | 82.87 (11.87) | | 84 (75 - 92) |  |  |  | |  |
| Year 1 | 201 | | 81.76 (13.12) | | 84 (75 - 92) | 0.45 (0.33, 0.55) | 0.43 (0.31, 0.48) | 3.37\* (-22.12, 28.87) | | 0.27 |
| Year 3 | 201 | | 85.13 (11.58) | | 88 (78 - 94) |  |  |  | |  |
| **Visual Motor Speed** | | | | | | | | | | |
| Year 1 | 988 | | 42.25 (6.31) | | 42.35 (37.84 - 47.45) | 0.66 (0.62, 0.69) | 0.65 (0.59, 0.69) | 1.24\* (-8.73, 11.21) | | 0.20 |
| Year 2 | 988 | | 43.49 (6.03) | | 44.25 (39.59 - 48.42) |  |  |  | |  |
| Year 1 | 201 | | 42.48 (6.37) | | 43.13 (38.3 - 47.47) | 0.57 (0.46, 0.65) | 0.52 (0.33, 0.57) | 2.63\* (-8.28, 13.54) | | 0.44 |
| Year 3 | 201 | | 45.11 (5.55) | | 46.43 (41.63 - 49.55) |  |  |  | |  |
| **Reaction Time** | | | | | | | | | | |
| Year 1 | 987 | | 0.59 (0.12) | | 0.57 (0.53 - 0.63) | 0.44 (0.38, 0.48) | 0.43 (0.38, 0.69) | -0.01\* (-0.22, 0.20) | | -0.10 |
| Year 2 | 987 | | 0.58 (0.08) | | 0.57 (0.53 - 0.62) |  |  |  | |  |
| Year 1 | 201 | | 0.62 (0.15) | | 0.59 (0.53 - 0.66) | 0.24 (0.10, 0.36) | 0.22 (0.09, 0.48) | -0.05\* (-0.33, 0.24) | | -0.44 |
| Year 3 | 201 | | 0.57 (0.06) | | 0.56 (0.52 - 0.61) |  |  |  | |  |
| \* Bias confidence interval does not cover 0 mean difference; λ Levels of agreement change with size of mean | | | | | | | | |