**Table S8. Freshmen 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 | 1660 | | 89.86 (9.35) | 92 (84 - 98) | 0.4 (0.36, 0.44) | 0.4 (0.36, 0.44) | 0.52\* (-19.49, 20.53) λ | 0.05 |
| Year 2 | 1660 | | 90.37 (9.37) | 93 (85 - 98.5) |  |  |  |  |
| Year 1 | 132 | | 88.39 (11.1) | 91 (82 - 96) | 0.46 (0.31, 0.58) | 0.42 (0.24, 0.54) | 4.28\* (-15.77, 24.33) λ | 0.44 |
| Year 3 | 132 | | 92.67 (8.36) | 96 (89.5 - 99) |  |  |  |  |
| **Visual Memory** | | | | | | | | |
| Year 1 | 1659 | | 81.22 (12.1) | 83 (74 - 91) | 0.51 (0.47, 0.54) | 0.5 (0.46, 0.69) | 2.24\* (-20.94, 25.43) λ | 0.19 |
| Year 2 | 1659 | | 83.47 (11.77) | 85 (76 - 93) |  |  |  |  |
| Year 1 | 132 | | 81.02 (14.4) | 84 (72 - 91.5) | 0.5 (0.37, 0.62) | 0.47 (0.31, 0.47) | 4.80\* (-20.21, 29.82) | 0.38 |
| Year 3 | 132 | | 85.83 (11.03) | 87 (79.5 - 96) |  |  |  |  |
| **Visual Motor Speed** | | | | | | | | |
| Year 1 | 1660 | | 42.02 (6.01) | 42.09 (37.79 - 46.79) | 0.65 (0.62, 0.68) | 0.63 (0.56, 0.44) | 1.52\* (-8.18, 11.21) λ | 0.26 |
| Year 2 | 1660 | | 43.54 (5.85) | 44.22 (39.67 - 48.25) |  |  |  |  |
| Year 1 | 132 | | 41.55 (6.58) | 41.88 (37.34 - 47) | 0.56 (0.43, 0.67) | 0.47 (0.18, 0.54) | 3.74\* (-7.43, 14.92) | 0.61 |
| Year 3 | 132 | | 45.29 (5.55) | 46.66 (42 - 50.09) |  |  |  |  |
| **Reaction Time** | | | | | | | | |
| Year 1 | 1660 | | 0.59 (0.11) | 0.57 (0.53 - 0.62) | 0.44 (0.4, 0.47) | 0.43 (0.39, 0.69) | -0.01\* (-0.21, 0.2) λ | -0.10 |
| Year 2 | 1660 | | 0.58 (0.08) | 0.57 (0.53 - 0.62) |  |  |  |  |
| Year 1 | 132 | | 0.64 (0.18) | 0.6 (0.54 - 0.7) | 0.20 (0.03, 0.36) | 0.18 (0.02, 0.47) | -0.07\* (-0.4, 0.26) | -0.52 |
| Year 3 | 132 | | 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 | | | | | | | |