**Table S7. Freshmen measures of central tendency, reliability, and effect sizes for clinical concussion measures**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **n** | **Mean (SD)** | **Median (Q1 - Q3)** | **ICCc**  **(lower, upper)** | **ICCa**  **(lower, upper)** | **Bias**  **(lower, upper)** | **Cohen's D** |
| **SAC** | | | | | | | |
| Year 1 | 1892 | 27.58 (1.82) | 28 (26 - 29) | 0.35 (0.31, 0.39) | 0.34 (0.28, 0.39) | 0.50\* (-3.37, 4.37) | 0.29 |
| Year 2 | 1892 | 28.08 (1.65) | 28 (27 - 29) |  |  |  |  |
| Year 1 | 134 | 27.7 (1.91) | 28 (27 - 29) | 0.14 (-0.03, 0.3) | 0.13 (-0.03, 0.29) | 0.64\* (-3.77, 5.06) λ | 0.37 |
| Year 3 | 134 | 28.34 (1.51) | 29 (27 - 30) |  |  |  |  |
| **BESS** | | | | | | | |
| Year 1 | 1874 | 14.55 (6.42) | 14 (10 - 18) | 0.23 (0.18, 0.27) | 0.22 (0.18, 0.27) | -0.41\* (-16.5, 15.68) λ | -0.06 |
| Year 2 | 1874 | 14.14 (6.77) | 13 (9 - 18) |  |  |  |  |
| Year 1 | 130 | 15.14 (6.85) | 14 (10 - 19) | 0.25 (0.08, 0.4) | 0.25 (0.08, 0.41) | 0.37 (-15.67, 16.41) | 0.06 |
| Year 3 | 130 | 15.51 (6.52) | 14 (11 - 20) |  |  |  |  |
| **BSI-18 Total** | | | | | | | |
| Year 1 | 2129 | 45.28 (9.74) | 45 (36 - 51) | 0.32 (0.28, 0.35) | 0.26 (0.11, 0.38) | -5.55\* (-24.36, 13.26) λ | -0.68 |
| Year 2 | 2129 | 39.73 (6.31) | 36 (36 - 42) |  |  |  |  |
| Year 1 | 135 | 40.97 (7.04) | 36 (36 - 45) | 0.24 (0.08, 0.40) | 0.22 (0.05, 0.37) | -3.03\* (-17.26, 11.2) | -0.51 |
| Year 3 | 135 | 37.94 (4.49) | 36 (36 - 36) |  |  |  |  |
| **SCAT Symptom Number** | | | |  | **Weighted Kappa**  **(lower, upper)** |  |  |
| Year 1 | 2145 | 5.1 (5.13) | 3 (1 - 8) |  | 0.13 (0.11-0.16) | -3.03\* (-13.1, 7.04) λ | -0.72 |
| Year 2 | 2145 | 2.07 (2.94) | 1 (0 - 3) |  |  |  |  |
| Year 1 | 136 | 2.55 (3.28) | 1 (0 - 3) |  | 0.30 (0.19, 0.41) | -1.20\* (-6.99, 4.6) | -0.43 |
| Year 3 | 136 | 1.35 (2.18) | 0 (0 - 2) |  |  |  |  |
| **SCAT Symptom Severity** | | | | | | | |
| Year 1 | 2145 | 10.22 (12.85) | 6 (1 - 14) |  | 0.10 (0.08, 0.12) | -7.08\* (-32.2, 18.03) λ | -0.72 |
| Year 2 | 2145 | 3.14 (5.45) | 1 (0 - 4) |  |  |  |  |
| Year 1 | 136 | 4.1 (6.18) | 2 (0 - 5.5) |  | 0.33 (0.08, 0.12) | -2.15\* (-12.97, 8.67) | -0.43 |
| Year 3 | 136 | 1.96 (3.38) | 0 (0 - 2) |  |  |  |  |
| \* Bias confidence interval does not cover 0 mean difference; λ Levels of agreement change with size of mean | | | | | | | |