Online Supplementary Material

Table S1

*Neurocognitive performance of football players and the norm sample by age group*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **15-19 yrs.** | | **20-29 yrs.** | | **30-39 yrs.** | | **40-49 yrs.** | |
| *Football Players* | *Mean* | *SD* | *Mean* | *SD* | *Mean* | *SD* | *Mean* | *SD* |
| Composite Memory | 106.53 | 13.94 | 102.59 | 14.06 | 102.67 | 15.02 | 101.47 | 11.68 |
| Psychomotor speed | 110.29 | 11.85 | 112.42 | 10.53 | 107.68 | 9.51 | 102.91 | 10.31 |
| Reaction time | 100.76 | 10.90 | 100.02 | 10.37 | 99.56 | 11.23 | 95.98 | 11.18 |
| Complex attention | 97.72 | 10.06 | 102.02 | 11.41 | 104.80 | 12.10 | 104.86 | 8.40 |
| Cognitive flexibility | 101.48 | 11.01 | 104.51 | 11.63 | 104.33 | 14.40 | 100.78 | 10.12 |
| Processing speed | 111.28 | 15.08 | 111.92 | 13.79 | 101.34 | 10.33 | 95.38 | 7.47 |
| *Norm Samplea* | *Mean* | *SD* | *Mean* | *SD* | *Mean* | *SD* | *Mean* | *SD* |
| Composite Memory | 100.21 | 13.03 | 100.11 | 15.29 | 97.14 | 15.13 | 97.87 | 15.25 |
| Psychomotor speed | 93.98 | 14.47 | 100.17 | 15.03 | 96.18 | 15.17 | 92.97 | 12.65 |
| Reaction time | 96.87 | 15.41 | 105.71 | 16.10 | 101.72 | 15.20 | 95.33 | 16.38 |
| Complex attention | 94.45 | 11.45 | 100.61 | 17.38 | 102.55 | 14.21 | 97.26 | 17.38 |
| Cognitive flexibility | 94.91 | 12.13 | 103.16 | 14.49 | 100.30 | 15.29 | 95.10 | 17.13 |
| Processing speed | 98.00 | 15.29 | 101.84 | 14.21 | 97.78 | 13.35 | 91.48 | 12.05 |

*Note:* SD, Standard Deviation; adata was simulated based on means, SDs and sample sizes previously published by Gualtieri and Johnson (2006).