**Supplementary Table 2.** Sex-based distribution of neuropsychological test scores and differences.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **HC** | | | **MCI** | | | **ADD** | | |
|  |  | Female | Male | *p-value* | Female | Male | *p-value* | Female | Male | *p-value* |
| *Verbal and visual memory* | | | | | | | | | | |
| **RAVLT - Immediate Recall** | Mean | 41.879 | 43.050 | 0.486 | 26.278 | 25.844 | 0.984 | 20.971 | 21.140 | 0.980 |
| SD | 8.892 | 7.020 | 6.294 | 8.009 | 9.248 | 13.711 |
| **RAVLT - Delayed Recall** | Mean | 8.427 | 8.730 | 0.497 | 1.717 | 2.100 | 0.985 | 1.088 | 2.630 | 0.286 |
| SD | 3.155 | 1.275 | 2.393 | 2.688 | 1.759 | 3.796 |
| **FCSRT** | Mean | 31.381 | 30.594 | 0.533 | 16.263 | 16.611 | 0.976 | 13.110 | 14.257 | 0.934 |
| SD | 6.632 | 6.979 | 5.101 | 6.618 | 7.095 | 11.347 |
| **RAVLT – Immediate Recall** | Mean | 15.730 | 18.170 | 0.132 | 8.684 | 4.737 | 0.014\* | 4.784 | 5.173 | 0.981 |
| SD | 5.838 | 6.448 | 4.864 | 5.345 | 8.409 | 9.150 |
| **ROCF – Delayed Recall** | Mean | 15.303 | 17.510 | 0.189 | 7.195 | 5.067 | 0.826 | 2.740 | 4.245 | 0.384 |
| SD | 5.199 | 6.404 | 5.920 | 5.765 | 8.927 | 8.475 |
| *Working memory and Executive functions* | | | | | | | | | | |
| **Digit Span Test** | Mean | 5.417 | 5.550 | 0.453 | 5.155 | 5.184 | 1.000 | 5.044 | 4.917 | 0.711 |
| SD | 0.669 | 0.682 | 0.641 | 0.800 | 1.083 | 1.030 |
| **Corsi Cube Test** | Mean | 4.545 | 4.600 | 0.911 | 4.270 | 4.266 | 1.000 | 3.706 | 2.773 | 0.066 |
| SD | 0.633 | 0.409 | 0.378 | 0.416 | 0.554 | 1.622 |
| **Stroop Test – Interferences** | Mean | 13.962 | 12.525 | 0.545 | 34.291 | 23.352 | 0.557 | 35.594 | 25.625 | 0.241 |
| SD | 14.480 | 10.063 | 27.386 | 17.344 | 24.002 | 29.560 |
| **Stroop Test – Errors** | Mean | 0.914 | 0.913 | 0.921 | 3.392 | 3.609 | 0.923 | 8.266 | 5.750 | 0.220 |
| SD | 1.509 | 1.408 | 4.990 | 5.980 | 8.859 | 8.642 |
| **Trail Making Test B-A** | Mean | 54.424 | 34.875 | 0.378 | 97.515 | 81.655 | 1.000 | 156.353 | 113.800 | 0.359 |
| SD | 72.198 | 65.302 | 93.177 | 87.519 | 68.729 | 100.945 |
| **FAS** | Mean | 35.345 | 38.015 | 0.248 | 28.561 | 26.959 | 1.000 | 20.550 | 14.730 | 0.243 |
| SD | 9.468 | 9.498 | 9.957 | 13.727 | 10.192 | 14.037 |
| *Processing speed* | | | | | | | | | | |
| **DSST** | Mean | 12.697 | 14.100 | 0.118 | 10.351 | 10.129 | 0.970 | 6.188 | 6.182 | 0.753 |
| SD | 2.899 | 2.315 | 3.048 | 3.845 | 3.987 | 6.853 |
| **Trail Making Test A** | Mean | 61.242 | 46.525 | 0.313 | 102.029 | 78.367 | 0.733 | 131.412 | 101.364 | 0.225 |
| SD | 40.470 | 22.970 | 67.754 | 49.249 | 73.676 | 82.467 |

The mean values with standard deviations are reported for each test in each diagnostic group. **Legend to table.** ADD: patients affected by Alzheimer’s dementia at baseline; DSST: Digit Symbol Substitution Test; FAS: Phonemic Fluency Test; FCSRT: Free and Cued Selective Reminding Test; HC: healthy controls; MCI: subjects with mild cognitive impairment; RAVLT: Rey Auditory Verbal Learning Test; ROCF: Rey–Osterrieth Complex Figure Test; SD: standard deviation. *\** significant at Mann-Whitney post-hoc test (FDR corrected p<0.05).