**Supplementary Table 1.** Neuropsychological test scores and differences across diagnostic groups.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **KW** | **Mann-Whitney test (p-values)** | | |
|  |  | **HC** | **MCI** | **ADD** | p-value | ADD vs MCI | ADD vs HC | MCI vs HC |
| *Verbal and visual memory* | | | | | | | | |
| **RAVLT - Immediate Recall** | Mean | 42.321 | 26.077 | 21.033 | **0.001\*** | 0.180 | <0.001\* | <0.001\* |
| SD | 8.185 | 7.089 | 10.849 |
| **RAVLT - Delayed Recall** | Mean | 8.542 | 1.894 | 1.681 | **0.001\*** | 0.846 | <0.001\* | <0.001\* |
| SD | 2.597 | 2.522 | 2.762 |
| **FCSRT** | Mean | 31.084 | 16.428 | 13.523 | **<0.001\*** | 0.326 | <0.001\* | <0.001\* |
| SD | 6.709 | 5.823 | 8.643 |
| **RAVLT – Immediate Recall** | Mean | 16.651 | 6.916 | 4.943 | **<0.001\*** | 0.160 | <0.001\* | <0.001\* |
| SD | 6.131 | 5.419 | 8.546 |
| **ROCF – Delayed Recall** | Mean | 16.136 | 6.242 | 3.377 | **<0.001\*** | 0.060 | <0.001 | <0.001\* |
| SD | 5.726 | 5.904 | 8.598 |
| *Working memory and Executive Functions* | | | | | | | | |
| **Digit Span Test** | Mean | 5.467 | 5.169 | 4.991 | **0.033\*** | 0.537 | 0.066\* | 0.048\* |
| SD | 0.671 | 0.714 | 1.045 |
| **Corsi Cube Test** | Mean | 4.566 | 4.268 | 3.339 | **<0.001\*** | <0.001\* | <0.001\* | 0.003\* |
| SD | 0.555 | 0.393 | 1.171 |
| **Stroop Test – Interferences** | Mean | 13.420 | 29.217 | 31.760 | **<0.001\*** | 0.992 | 0.003\* | <0.001\* |
| SD | 12.904 | 23.757 | 26.167 |
| **Stroop Test – Errors** | Mean | 0.913 | 3.494 | 7.298 | **0.005\*** | 0.048 | 0.003\* | 0.123 |
| SD | 1.457 | 5.438 | 8.691 |
| **Trail Making Test B-A** | Mean | 47.047 | 90.097 | 140.593 | **<0.001\*** | 0.015\* | <0.001\* | 0.066 |
| SD | 69.695 | 90.189 | 82.902 |
| **FAS** | Mean | 36.353 | 27.807 | 18.394 | **<0.001\*** | 0.003\* | <0.001\* | <0.001\* |
| SD | 9.478 | 11.816 | 11.846 |
| *Processing speed* | | | | | | | | |
| **DSST** | Mean | 13.226 | 10.250 | 6.185 | **<0.001\*** | 0.004\* | <0.001\* | <0.001\* |
| SD | 2.757 | 3.409 | 5.219 |
| **Trail Making Test A** | Mean | 55.689 | 91.108 | 119.607 | **<0.001\*** | 0.136 | <0.001\* | <0.001\* |
| SD | 35.392 | 60.656 | 77.194 |

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; KW: Kruskal-Wallis test; MCI: subjects with mild cognitive impairment; RAVLT: Rey Auditory Verbal Learning Test; ROCF: Rey–Osterrieth Complex Figure Test; SD: standard deviation.

*\** significant at Kruskal-Wallis or Mann-Whitney post-hoc test (FDR corrected p<0.05).