**Supplementary Table S2.** *Comparisons of raw scores and Z-scores of the neuropsychological tests between male and female PD patients per diagnostic group.*

|  |  |  |
| --- | --- | --- |
|  | Raw values | Z-scores |
|  | PD-N | PD-MCI | PD-D | PD-N | PD-MCI | PD-D |
| Test  | M | F | *p* | M | F | *p* | M | F | *p* | M | F | *p* | M | F | *p* | M | F | *p* |
| Recall of figures | 9.7±1.8 | 9.4±1.7 | 0.132 | 8.2±2.4 | 7.3±2.8 | 0.011 | 5.2±3.3 | 4.9±3.1 | 0.313 | 0.1±1.1 | 0.3±1.2 | 0.342 | -0.6±1.4 | -0.6±1.3 | 0.99 | -1.6±1.5 | -1.2±1.6 | 0.39 |
| Word list learning | 20.8±3.4 | 22.8±3.2 | 0.00051,2 | 17.9±4.3 | 18.8±4.2 | 0.301 | 12.3±4.2 | 12.3±5.5 | 0.97 | 0.2±0.9 | 0.1±0.9 | 0.422 | -0.6±1.3 | -0.9±1.5 | 0.02 | -1.8±1.8 | -2.6±1.9 | 0.04 |
| Word list recall | 7.4±1.8 | 8.0±1.5 | 0.0081 | 5.8±2.2 | 6.6±2.2 | 0.131 | 3.6±1.9 | 3.2±2.6 | 0.55 | 0.2±0.1 | 0.1±0.9 | 0.17 | -0.4±1.1 | -0.6±1.2 | 0.04 | -1.1±1.2 | -1.8±2.0 | 0.17 |
| Word list recognition | 98.2±3.5 | 98.0±3.9 | 0.60 | 94.9±6.9 | 96.5±6.2 | 0.391 | 88.5±10.4 | 86.2±13.3 | 0.62 | 0.3±0.8 | -0.0±1.1 | 0.18 | -0.1±1.2 | -0.3±1.1 | 0.19 | -1.0±1.5 | -1.4±1.8 | 0.36 |
| Semantic verbal fluency | 23.9±6.2 | 23.6±5.6 | 0.143 | 19.6±6.2 | 20.7±5.7 | 0.131,3 | 14.1±5.8 | 13.9±4.3 | 0.75 | 0.3±1.1 | 0.2±1.0 | 0.0522 | -0.4±1.2 | -0.3±1.1 | 0.25 | -1.1±1.4 | -1.1±1.2 | 0.76 |
| Phonemic verbal fluency | 15.4±5.2 | 15.5±5.2 | 0.911,3 | 11.2±4.9 | 12.5±5.4 | 0.081,3,5 | 6.8±4.1 | 8.3±4.2 | 0.125 | 0.6±1.0 | 0.5±1.1 | 0.45 | -0.2±1.1 | -0.1±1.2 | 0.38 | -1.1±1.3 | -0.7±1.3 | 0.39 |
| Trail Making Test B/A | 2.4±0.8 | 2.5±0.9 | 0.20 | 2.7±1.1 | 2.9±1.5 | 0.43 | 2.3±1.7 | 2.1±1.8 | 0.42 | 0.1±1.0 | -0.0±0.9 | 0.20 | -0.3±1.0 | -0.2±1.3 | 0.33 | -0.5±1.2 | -0.3±1.2 | 0.65 |
| Constructional praxis | 10.7±0.7 | 10.4±1.3 | 0.07 | 10.0±1.4 | 9.5±1.5 | 0.002 | 8.0±2.4 | 7.7±2.4 | 0.593 | 0.2±0.9 | 0.4±1.0 | 0.11 | -0.2±1.3 | -0.5±1.3 | 0.19 | -1.7±1.8 | -1.5±1.6 | 0.863 |
| Boston Naming Test | 14.7±0.6 | 14.7±0.7 | 0.86 | 14.3±1.1 | 14.2±1.2 | 0.381 | 13.1±1.9 | 12.5±1.8 | 0.173 | 0.5±0.7 | 0.7±0.8 | 0.01 | 0.1(1.0) | 0.3±1.1 | 0.58 | -0.5±1.5 | -0.7±1.3 | 0.60 |

Data are given as mean ± standard deviation.

PD-N, PD patients with no cognitive impairment; PD-MCI, PD-patients with mild cognitive impairment; PD-D, PD patients with Parkinson´s disease dementia; M, male; F, female.

Significant covariates:

1 Age

2 GDS

3 UPDRS III

4 disease duration

5 LEDD