**Supplementary Table S1.** *Comparisons of raw scores and Z-scores of the neuropsychological tests between male and female PD patients*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Raw values | | | Z-scores | | | |
| Test | M | F | *p* | | M | F | *p* |
| Recall of figures | 8.4±2.8 | 7.9±2.9 | 0.0061,2,3,4 | | -0.4±1.4 | -0.3±1.4 | 0.382,3 |
| Word list learning | 18.2±4.8 | 19.6±5.3 | 0.011,2,3,4 | | -0.5±1.4 | -0.7±1.6 | 0.042,3 |
| Word list recall | 6.1±2.4 | 6.7±2.6 | 0.021,2,3 | | -0.2±1.2 | -0.5±1.4 | 0.022,3 |
| Word list recognition | 95.2±7.3 | 95.7±7.9 | 0.531,2 | | -0.1±1.2 | -0.3±1.3 | 0.052 |
| Semantic verbal fluency | 20.4±7.0 | 20.9±6.3 | 0.781,2,3,5 | | -0.2±1.3 | -0.2±1.2 | 0.952,3 |
| Phonemic verbal fluency | 12.2±5.7 | 13.3±5.8 | 0.061,2,3 | | -0.0±1.2 | 0.1±1.2 | 0.332,3 |
| Trail Making Test B/A | 2.5±1.1 | 2.6±1.4 | 0.583 | | -0.2±1.0 | -0.1±1.1 | 0.99 |
| Constructional praxis | 10.0±1.6 | 9.3±1.8 | 0.0021,2,3 | | -0.3±1.4 | -0.3±1.4 | 0.822,3 |
| Boston Naming Test | 14.3±1.2 | 14.2±1.3 | 0.271,2,3 | | 0.2±1.0 | 0.3±1.1 | 0.173 |

Data are given as mean ± standard deviation.

M, male; F, female.

Significant covariates:

1 Age

2 GDS

3 UPDRS III

4 disease duration

5 LEDD