

Supplementary Table 1. Detailed neuropsychological results of *de novo* patient with Parkinson's disease in the study

Cognitive test (maximum score)	Raw score	Adjusted percentile	Z-score
Global cognition			
K-MMSE (30)	24.6 ± 3.3	20.5 ± 25.2	-1.4 ± 1.3
Attention/working memory			
Digit span, forward (9)	5.2 ± 1.5	43.7 ± 32.1	-0.2 ± 1.1
Digit span, backward (8)	3.2 ± 1.1	36.2 ± 28.2	-0.5 ± 1.0
Stroop test: color reading (112)	66.0 ± 26.0	28.8 ± 30.1	-1.0 ± 1.4
Executive function			
COWAT, semantic: animal	12.7 ± 4.0	31.3 ± 29.5	-0.8 ± 1.1
COWAT, semantic: supermarket	13.8 ± 5.1	35.3 ± 25.0	-0.5 ± 1.0
COWAT, phonemic	16.0 ± 11.4	32.7 ± 31.4	-0.7 ± 1.3
Language function			
K-Boston naming test (60)	8.9 ± 3.1	36.2 ± 28.2	-0.5 ± 1.1
Visuospatial function			
RCFT copy (36)	22.4 ± 10.1	22.5 ± 30.9	-1.7 ± 1.8
Memory function			
Verbal			
SVLT, immediate recall (36)	16.0 ± 4.4	37.5 ± 28.7	-0.5 ± 1.1
SVLT, delayed recall (12)	4.3 ± 2.1	30.3 ± 26.2	-0.8 ± 1.1
SVLT, recognition (24)	18.8 ± 2.4	35.7 ± 28.5	-0.6 ± 1.1
Visual			
RCFT, immediate recall (36)	8.6 ± 6.1	25.8 ± 25.4	-0.9 ± 0.9
RCFT, delayed recall (36)	8.5 ± 6.6	25.8 ± 29.0	-1.0 ± 1.1
RCFT, recognition (24)	17.6 ± 2.3	36.3 ± 28.2	-0.6 ± 1.1

Data are presented as mean ± standard deviation. Percentile was adjusted for age, gender, and years of education. K-MMSE: Korean version of Mini-Mental Status Examination, COWAT: controlled oral word association test, RCFT: Rey complex figure test, SVLT: Seoul verbal learning test.