

Supplementary Material S3. Descriptive features of the overall sample (n= 183).

Variable	Mean \pm SD / Count (%)	Min - Max
<i>Demographics</i>		
Age, years	64.31 \pm 8.82	40.00 - 83.00
Education, years	11.85 \pm 4.42	2.00 - 18.00
Sex, male	121 (66.12%)	-
<i>Clinical features</i>		
Disease duration, years	1.48 \pm 0.78	1.00 - 2.00
UPDRS-III	21.72 \pm 9.88	7.00 - 41.00
Modified HY stage	1.82 \pm 0.53	1.0 - 2.5
Age at onset:		
Early-onset	12 (6.5%)	-
Late-onset	47 (25.6%)	-
<i>Cognitive assessment^a</i>		
<i>Attention and working memory</i>		
TMT part A	35.68 \pm 21.02	4.00 - 131.00
Digit span backward	3.60 \pm 0.98	0.75 - 7.66
<i>Executive functions</i>		
MCST-n. of categories	4.00 \pm 2.00	1.00 - 6.00
Letter fluency task	28.19 \pm 9.78	6.20 - 65.90
TMT part B	115.81 \pm 91.77	3.00 - 571.00
<i>Visuospatial abilities</i>		
Copying drawings	11.46 \pm 2.18	3.50 - 14.00
JOL	22.58 \pm 5.47	4 - 33
<i>Language</i>		
Nouns denomination task	9.86 \pm 0.43	6.50 - 10.00
Verbs denomination task	9.39 \pm 1.05	5.50 - 10.00
<i>Memory</i>		
Prose Recall Test	11.28 \pm 3.71	3.00 - 21.50
RAVLT-Free Recall	6.83 \pm 3.33	0.00 - 14.72
RAVLT-Intrusions	1.15 \pm 2.35	0.00 - 11.26
RAVLT-Recognition Enhancement	4.72 \pm 3.61	0.00 - 15.00
<i>Behavioural measures</i>		
Beck Depression Inventory	7.74 \pm 7.40	0 - 41
Parkinson Anxiety Scale	10.37 \pm 8.22	0 - 41
Apathy Evaluation Scale	30.80 \pm 7.82	18 - 56
PD-Sleep Scale	121.34 \pm 23.68	75 - 150
Epworth Sleepiness Scale	3.77 \pm 3.15	0 - 19
Parkinson Fatigue Scale	2.06 \pm 1.00	1.00 - 4.75
<i>Quality of life</i>		
PDQ-39	15.12 \pm 10.57	0.00 - 53.85

Note. Data were reported as mean \pm standard deviation or count (percentage); HY, Hoehn and Yahr; UPDRS, Unified Parkinson's Disease Rating Scale; TMT, Trail Making Test; MCST (Nelson's modification), Modified Card Sorting Test; JOL, Judgement of line orientation test; RAVLT, Rey's Auditory Verbal Learning Test; PDQ-39, 39-item Parkinson's disease questionnaire; a, age-, education- and sex-adjusted scores.