Supplementary Material

# Supplementary Tables

**Supplementary Table 1.** Measures and characteristics of independent variables of non-motor symptom

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| Independent variables | Measures | Characteristics |
| Non-motor symptom | Non-Motor Symptom Rating Scale (NMSS) | + |
| Sleep quality | Parkinson’s Disease Sleep Scale (PDSS) | - |
| Fatigue | Parkinson Fatigue Scale (PFS) | + |
| Quality of life | 39-item Parkinson’s Disease Questionnaire (PDQ-39) | + |
| Constipation | Rome III Functional Constipation Diagnostic Criteria | # |
| Cognitive dysfunction | Mini-Mental State Examination (MMSE) | \* |
| Hyposmia | Hyposmia Rating Scale (HRS) | Score ≤ 22.5 |
| Depression | Hamilton Depression Scale (17-item version) | Score > 7 |
| EDS | Epworth Sleepiness Scale (ESS) | Score ≥ 10 |
| RBD | Rapid Eye Movement Sleep Behavior Disorder Questionnaire‒Hong Kong (RBDQ-HK) | Score ≥ 18 |
| RLS | Cambridge‒Hopkins Questionnaire for restless leg syndrome (CH-RLSq) | ^ |

+: the higher the score, the more severe the symptoms; -: the lower the score, the more severe the symptoms; #: it depends on medical history; \*: among patients with PD with an education level of primary school and below, a total score < 20 points was defined as cognitive dysfunction, while for patients with PD with an education level of middle school and above, a total score < 24 was defined as cognitive impairment, and the lower the score, the more severe the symptoms; ^: it based on the diagnostic criteria of CH-RLSq. PD, Parkinson’s disease; EDS, excessive daytime sleepiness; RBD, rapid eye movement sleep behavior disorder; RLS, restless leg syndrome.