

**Supplementary Material 1:** Flowchart of this study. RBDQ-HK: Rapid eye movement sleep behavior disorder Questionnaire-Hong Kong; RBDSQ: Rapid eye movement sleep behavior disorder Screening Questionnaire; PD—RBD: Parkinson's disease patients without rapid eye movement sleep behavior disorder; PD+RBD: Parkinson's disease patients with rapid eye movement sleep behavior disorder; iRBD: Idiopathic rapid eye movement sleep behavior disorder; HC: Healthy controls; MCI: Mild cognitive impairment.