**Table S1. Demographic, Motor and Non-motor Manifestations in Patients with PD**

Data for continuous variables are presented as medial levels (IQRs). Values in bold refer to statistically significant differences (*P* < 0.05). Memory and smell of patients were assessed with MMSE and Sniffin’s Sticks respectively.

a*P* values were calculated with Mann-Whitney.

b*P* values were calculated with the Pearson χ2 tests.

|  |  |  |  |
| --- | --- | --- | --- |
| **Items** | **PD with Hyposmia****(n = 343)** | **PD with Normosmia****(n = 157)** | ***P* value** |
| **Sex (male %)** | 196 (57.1%) | 73 (46.5%) | **0.033b** |
| **Age (y)** | 59 (51-67) | 61 (56-67) | 0.143**a** |
| **Education years(y)**  | 9 (6-12) | 9 (7-12) | **0.043a** |
| **AAO(y)**  | 54 (46-62) | 56 (50-62) | 0.102**a** |
| **Duration(y)** | 3 (2-6) | 3 (2-6) | 0.549**a** |
| **Smoking status** | 103 (30.0%) | 41 (26.1%) | 0.396**b** |
| **Taken anti-parkinsonsiam medicine or not** | 272 (79.3%) | 123 (78.3%) | 0.814**b** |
| **H-Y stage** | 2 (1.5-3) | 2 (1.5-3) | 0.769**a** |
| **UPDRS II, points** | 12 (9-17) | 12 (8-17) | 0.307**a** |
| **UPDRS III, points** | 27 (19-39) | 26 (18-34) | 0.466**a** |
| **Tremor, points** | 3 (1-5) | 3 (1-5) | 0.914**a** |
| **Rigidity, points** | 6 (3-9) | 5 (3-7) | **0.046a** |
| **Bradykinesia, points** | 9 (5-14) | 9 (6-14) | 0.930**a** |
| **Postural and gait abnormalities, points** | 4 (3-6) | 4 (2-6) | 0.322**a** |
| **PIGD /Intermediate /TD phenotype** | 201/33/109 | 88/16/53 | 0.866**a** |
| **Dyskinesia** | 43(12.5%) | 13(8.2%) | 0.173**b** |
| **MMSE** | 27 (25-29) | 28 (26-29) | **0.003a** |
| **TDI score** | 16.50 (11.50-19.50) | 24.75 (22.25-28.69) | **<0.001a** |
| **TD score** | 10.50 (6.50-13.50) | 16.25 (13.75-19.25) | **<0.001a** |
| **TI score** | 9.38 (6.25-12.75) | 16.25 (14.00-19.25) | **<0.001a** |
| **DI score** | 12 (9-15) | 18 (16-20) | **<0.001a** |
| **T score** | 3.50 (1.5-5.5) | 7.25 (5.5-9.5) | **<0.001a** |
| **D score** | 6.5 (4-8) | 9 (7-11) | **<0.001a** |
| **I score** | 6 (4-8) | 9 (8-10) | **<0.001a** |