**Supplementary Table 1**. PD patients characteristics by age group

|  |  |
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| Variables | PD patients |
| **40-59 years (n:5)** | **60-66 years (n:6)** | **67-75 years (n:8)** | **76-88 years (n:6)** |
| Gender\*  |
| Male  | 4 (80%) | 4 (66.6%) | 3 (37.5%) | 2 (66.6%) |
| Female  | 1 (20%) | 2 (33.3%) | 5 (62.5%) | 4 (33.3%) |
| Disease duration\*\*  |
| Years  | 1 (IQR 0-2) | 6 (IQR 3-7) | 6 (IQR 2-7) | 5.5 (IQR 1-9) |
| Hoehn and Yahr\*  |
| Hoehn and Yahr I | 3 (60%) | 0 (0%) | 1 (12.5%) | 0 (0%) |
| Hoehn and Yahr II  | 2 (40%) | 6 (100%) | 7 (87.5%) | 6 (100%) |
| Clinical Asymmetry\*  |
| Right-sided PD | 2 (40%) | 3 (50%) | 2 (25%) | 4 (66.67%) |
| left-sided PD | 3 (60%) | 2 (33.3%) | 5 (62.5%) | 2 (33.3%) |
| Symmetrical PD  | 0 (0%) | 1 (16.6%) | 1 (12.5%) | 0 (0%) |
| Test |
| DGI\*\* | 22 (IQR 22-23) | 20.5 (IQR 19-21) | 20 (IQR 14.5-21) | 21.5 (IQR 12-24) |
| MDS-UPDRS | 32 (± 19.7) | 43 (± 13.8) | 30.3 (± 8.1) | 43.5 (± 8.8) |
| FOGQ | 2.8 (± 3.6) | 7.1 (± 5.2) | 6.2 (± 4.62) | 7.8 (± 4.9) |

\*n (%)

\*\*Median (IQR: Interquartile range)

GDI, Gait Dynamic Index; MDS-UPDRS, Movement Disorder Society Unified Parkinson's Disease Rating Scale; FOGQ, Freezing of Gait Questionnaire.