**Supplementary materials**

**Supplementary Table 1 Demographics and clinical features of PD patients**

**Supplementary Table 2 Foot pressure distribution in subjects compared to normals**

**Supplementary Figure 1 Foot pressure distribution in subjects compared to normals**

**Supplementary Table 1 Demographics and clinical features of PD patients**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Number** | **1** | **2** | **3** | **4** | **5** | **6** |
| **Age (y)** | 63 | 63 | 54 | 47 | 60 | 61 |
| **Gender (M/F)** | F | F | M | F | F | F |
| **PD disease duration (y)** | 2 | 3 | 3 | 3 | 6 | 4 |
| **UPDRS-III** | 17 | 18 | 23 | 17 | 14 | 12 |
| **H-Y** | 1.5 | 2 | 2 | 1.5 | 1.5 | 1.5 |
| **LEDD (mg)** | 350 | 475 | 475 | 150 | 275 | 200 |
| **HAMA** | 7 | 14 | 7 | 3 | 2 | 7 |
| **HAMD-17** | 7 | 13 | 6 | 2 | 1 | 7 |
| **PDQ-39** | 21 | 32 | 37 | 15 | 17 | 22 |
| **MMSE** | 28 | 28 | 24 | 29 | 30 | 30 |
| **Side of foot dystonia (L/R)** | R | L | R | L | R | R |
| **Foot dystonia duration (y)** | 2 | 3 | 3 | 2 | 2 | 2 |
| **Foot posture** |  |  |  |  |  |  |
| Inversion, plantar and toe flexion |  | √ | √ |  |  |  |
| Plantar and toe flexion | √ |  |  | √ | √ | √ |
| **Injected muscle (units)** | FDL 50UFDB 20UFHL 40UFHB 10U | TP 60 UGM 30 UFDL 50UFDB 20U | TP 60 UGM 30UFDL 40UFDB 20U | FDL 40UFDB 10UFHL 40UFHB 10U | FDL 40UFDB 10UFHL 40UFHB 10 U | FDL 50UFDB 20UFHL 40UFHB 10 U |

PD=Parkinson’s disease, UPDRS-III=Unified Parkinson’s disease rating scale-III，H-Y=Hoehn and Yahr，LEDD=Levodopa equivalent daily dose，HAMA=Hamilton anxiety scale, HAMD-17=Hamilton depression scale-17, PDQ-39=The 39-item Parkinson’s disease questionnaire, MMSE=Mini-mental state examination, TP=tibialis posterior, GM=gastrocnemius medialis, FDL=flexor digitorum longus, FDB=Flexor digitorum brevis, FHL= flexor hallucis longus, FHB=flexor hallucis brevis.

**Supplementary Table 2 Foot pressure distribution in subjects compared to normals**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Foot pressure** **N (%)** | **Baseline****(n=6)** | **1 month****(n=6)** | **3 months****(n=6)** | **Normals****(n=24)** |
| Toe 1 | 98.15±76.07 (6.09%) | 48.83±36.19 (4.20%) | 55.35±49.60 (4.34%) | 94.14±53.15 (5.62%) |
| Toe 2-5 | 8.52±7.86 (0.53%) | 16.23±7.47 (1.40%) | 13.83±5.07 (1.09%) | 30.07±24.57 (1.79%) |
| Meta 1 | 91.62±56.74 (5.69%) | 93.53±57.10 (8.05%) | 88.42±49.06 (6.94%) | 139.59±67.42 (8.33%) |
| Meta 2 | 158.50±70.13 (9.84%) | 145.35±49.96 (12.51%) | 147.52±57.85 (11.58%) | 242.28±74.55 (14.46%) |
| Meta 3 | 208.37±64.69 (12.94%) | 148.43±66.52 (12.77%) | 171.70±42.68 (13.48%) | 216.73±65.87 (12.93%) |
| Meta 4 | 187.10±105.37 (11.62%) | 117.15±44.67 (10.08%) | 135.63±50.85 (10.65%) | 162.53±66.47 (9.70%) |
| Meta 5 | 199.08±181.26 (12.36%) | 95.15±102.01 (8.19%) | 113.03±111.52 (8.87%) | 103.09±52.53 (6.15%) |
| Midfoot | 226.53±119.69 (14.07%) | 108.48±74.75 (9.34%) | 140.55±78.22 (11.03%) | 162.57±70.70 (9.70%) |
| Heel Medial | 226.90±31.69 (14.09%) | 229.23±33.54 (19.73%) | 225.87±37.72 (17.73%) | 286.74±81.47(17.11%) |
| Heel Lateral | 205.67±92.01 (12.77%) | 159.68±43.54 (13.74%) | 182.02±46.48 (14.29%) | 238.19±80.61(14.21%) |

Toe 1=Hallux, Meta=Metatarsal.

****

**Supplementary Figure 1** **Foot pressure distribution in subjects compared to normals.** Toe 1=Hallux, Meta=Metatarsal.