

|                                    |                                                  |                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Demographic features</b>        | Sex                                              | Male/ female                                                                                                                                                                                                                                                                                                                           |
|                                    | Age                                              |                                                                                                                                                                                                                                                                                                                                        |
|                                    | Job status                                       | With work, housewife, with income without a job, student, others                                                                                                                                                                                                                                                                       |
|                                    | Education                                        | Illiterate, primary school, secondary school, high school, diploma, Bachelor's degree, master's degree, associate's degree, Doctorate, PhD, doctorate specialist                                                                                                                                                                       |
|                                    | Marital status                                   | single, married, widowed or separated                                                                                                                                                                                                                                                                                                  |
|                                    | State of living                                  | 31 states of Iran                                                                                                                                                                                                                                                                                                                      |
|                                    | State of birth                                   | 31 states of Iran                                                                                                                                                                                                                                                                                                                      |
|                                    | Ethnicity                                        | Azari, Fars, Taleshi, Kord, Turkeman, Arab, Lor, Balouch, Ghashghaee, Afghan                                                                                                                                                                                                                                                           |
|                                    | Dominant hand                                    | Right/ Left                                                                                                                                                                                                                                                                                                                            |
| <b>Parkinson's Disease aspects</b> | The duration of the disease                      |                                                                                                                                                                                                                                                                                                                                        |
|                                    | Age of onset                                     |                                                                                                                                                                                                                                                                                                                                        |
|                                    | The first affected side of the body              | Upper right, lower left, upper left, lower right, head and neck, others                                                                                                                                                                                                                                                                |
|                                    | Type of PD by dominancy                          | Unknown, tremor, bradykinesia, rigidity, other or more than one                                                                                                                                                                                                                                                                        |
|                                    | Used available medications for PD in the country | None, levodopa-carbidopa, levodopa-benserazide, entacapone, pramipexole, amantadine, trihexyphenidyl/biperiden, <b>selegiline</b> , apomorphine, surgical intervention                                                                                                                                                                 |
|                                    | Non-motor features of the disease                | Cognitive decline, depressed mood, apathy, nighttime sleep problems, pain and other sensations or sensory complaints related to PD, constipation problems, fatigue, hallucinations and psychosis, anxious mood, features of dopamine dysregulation syndrome (DDS), Daytime sleepiness, Urinary problems, light-headedness on standing, |
|                                    | Quality of life-related questions                | Speech changes, difficulties in chewing and swallowing, dressing, handwriting, turning in bed, and getting out of bed, car, or deep chair, freezing, salivation and drooling problems, difficulty in eating tasks, hygiene, doing hobbies and other activities, tremor, walking, and balance                                           |
|                                    | Motor complications                              | Motor fluctuation, dyskinesia                                                                                                                                                                                                                                                                                                          |
|                                    | Stage of disease (H&Y)                           |                                                                                                                                                                                                                                                                                                                                        |
| <b>past medical history</b>        | History of other neurological diseases           | None, stroke, migraine, epilepsy, others                                                                                                                                                                                                                                                                                               |
|                                    | Family history of PD                             | Unknown, yes, no                                                                                                                                                                                                                                                                                                                       |
|                                    | Relation of the member of the family with PwPD   | Parents, grandparents, sister or brother, uncle or aunt, others                                                                                                                                                                                                                                                                        |

Supplementary Table 1. Features assessed in Parkinson's Disease patients.

| Characteristics                                                                           | All (N)    | Male (N)    | Female (N)  | P value | EOPD (N)    | LOPD (N)    | P value |
|-------------------------------------------------------------------------------------------|------------|-------------|-------------|---------|-------------|-------------|---------|
| <b>H&amp;Y (mean SD)</b>                                                                  |            | 2.69 (1.20) | 2.80 (1.35) | <0.05   | 2.71 (1.27) | 2.79 (1.29) | <0.05   |
| Unilateral involvement only (%)                                                           | 62(1.5)    | 40(1)       | 22(0.5)     |         | 19(0.5)     | 42(1)       |         |
| Bilateral involvement without impairment of balance (%)                                   | 2573(63.6) | 1660(41)    | 910(22.5)   |         | 638(15.8)   | 1717(42.4)  |         |
| Mild bilateral disease with recovery on pull test (%)                                     | 564(13.9)  | 335(8.3)    | 229(5.7)    |         | 116(2.9)    | 447(11)     |         |
| Unilateral and axial involvement (%)                                                      | 398(9.8)   | 279(6.9)    | 119(2.9)    |         | 116(2.9)    | 280(6.9)    |         |
| Mild to moderate bilateral disease; some postural instability; physically independent (%) | 232(5.7)   | 141(3.5)    | 91(22)      |         | 41(1)       | 190(4.7)    |         |
| Severe disability; still able to walk or stand unassisted (%)                             | 133(3.3)   | 79(2)       | 54(1.3)     |         | 41(1)       | 90(2.2)     |         |
| Wheelchair bound or bedridden unless aided (%)                                            | 86(2.1)    | 37(0.9)     | 49(1.2)     |         | 18(0.4)     | 68(1.7)     |         |
| <b>Ethnicity</b>                                                                          |            |             |             |         |             |             | <0.001  |
| Azari (%)                                                                                 | 889(22.8)  | 553(14.2)   | 336(8.6)    |         | 181(4.6)    | 674(17.3)   |         |
| Fars (%)                                                                                  | 2473(63.3) | 1564(40.1)  | 909(23.3)   |         | 535(13.7)   | 1740(44.6)  |         |
| Taleshi (%)                                                                               | 128(3.3)   | 87(2.2)     | 41(1.1)     |         | 53(1.4)     | 74(1.9)     |         |
| Kord (%)                                                                                  | 175(4.5)   | 125(3.2)    | 50(1.3)     |         | 49(1.3)     | 124(3.2)    |         |
| Turkaman (%)                                                                              | 7(0.2)     | 5(0.1)      | 2(0.1)      |         | 5(0.1)      | 2(0.1)      |         |
| Arab (%)                                                                                  | 26(0.7)    | 17(0.4)     | 9(0.2)      |         | 11(0.3)     | 15(0.4)     |         |
| Lor (%)                                                                                   | 170(4.4)   | 105(2.7)    | 65(1.7)     |         | 44(1.1)     | 117(3)      |         |
| Balouch (%)                                                                               | 17(0.4)    | 15(0.4)     | 2(0.1)      |         | 10(0.3)     | 7(0.2)      |         |
| Ghashghaei (%)                                                                            | 9(0.2)     | 6(0.2)      | 3(0.1)      |         | 3(0.1)      | 6(0.2)      |         |
| Afghan (%)                                                                                | 10(0.3)    | 7(0.2)      | 3(0.1)      |         | 6(0.2)      | 3(0.1)      |         |
| <b>Education</b>                                                                          |            |             |             | <0.001  |             |             | <0.001  |
| None (%)                                                                                  | 920(24.7)  | 445(11.9)   | 562(15.1)   |         | 102(2.7)    | 788(21.2)   |         |
| Elementary (%)                                                                            | 504(13.5)  | 336(9)      | 230(6.2)    |         | 102(2.7)    | 413(11.1)   |         |
| Middle School (%)                                                                         | 804(21.6)  | 564(15.1)   | 314(8.4)    |         | 180(4.8)    | 633(17)     |         |
| High School (%)                                                                           | 121(3.3)   | 92(2.5)     | 42(1.1)     |         | 37(1)       | 87(2.3)     |         |
| Diploma (%)                                                                               | 656(17.6)  | 510(13.7)   | 188(5.1)    |         | 250(6.7)    | 428(11.5)   |         |
| Bachelor (%)                                                                              | 362(9.7)   | 311(8.3)    | 77(2.1)     |         | 133(3.6)    | 239(6.4)    |         |
| Master (%)                                                                                | 110(3)     | 103(2.8)    | 15(0.4)     |         | 43(1.2)     | 73(2)       |         |
| Associate Degree (%)                                                                      | 196(5.3)   | 168(4.5)    | 40(1.1)     |         | 59(1.6)     | 142(3.8)    |         |
| Doctorate (%)                                                                             | 23(0.6)    | 20(0.5)     | 3(0.1)      |         | 9(0.2)      | 14(0.4)     |         |
| Doctor (%)                                                                                | 23(0.6)    | 21(0.6)     | 3(0.1)      |         | 8(0.2)      | 15(0.4)     |         |
| Post Doctorate (%)                                                                        | 1(0)       | 1(0)        | 0           |         | 0           | 1(0)        |         |
| <b>Job status</b>                                                                         |            |             |             | <0.05   |             |             | <0.05   |
| With work (%)                                                                             | 434(13.1)  | 405(12.2)   | 29(0.9)     |         | 94(2.8)     | 285(8.6)    |         |
| Without work but paid (%)                                                                 | 838(25.2)  | 655(19.7)   | 183(5.5)    |         | 51(1.5)     | 571(17.2)   |         |
| Housewife (%)                                                                             | 943(28.4)  | 20(0.6)     | 923(27.8)   |         | 61(1.8)     | 870(26.2)   |         |
| Others (%)                                                                                | 1106(33.3) | 1025(30.8)  | 81(2.4)     |         | 53(1.6)     | 981(29.5)   |         |
| Educator (%)                                                                              | 3(0.1)     | 1(0)        | 2(0.1)      |         | 3(0.1)      | 0           |         |

|                                                                                                                          |            |            |           |        |           |            |        |
|--------------------------------------------------------------------------------------------------------------------------|------------|------------|-----------|--------|-----------|------------|--------|
| <b>Family history of PD</b>                                                                                              |            |            |           |        |           |            | <0.05  |
| Unknown (%)                                                                                                              | 458(11.3)  | 287(7.1)   | 168(4.2)  |        | 46(1.1)   | 190(4.7)   |        |
| No (%)                                                                                                                   | 2679(66.2) | 1716(42.4) | 963(23.8) |        | 626(15.5) | 2007(49.6) |        |
| Yes (%)                                                                                                                  | 911(22.5)  | 568(14)    | 343(8.5)  |        | 251(6.2)  | 636(15.7)  |        |
| <b>Relation to the patient</b>                                                                                           |            |            |           |        |           |            | <0.001 |
| Parents (%)                                                                                                              | 278(30.8)  | 176(19.5)  | 102(11.3) |        | 55(6.1)   | 214(23.7)  |        |
| Grandparents (%)                                                                                                         | 48(5.3)    | 30(3.3)    | 18(2)     |        | 22(2.4)   | 24(2.7)    |        |
| Sister or brother (%)                                                                                                    | 155(17.2)  | 94(10.4)   | 61(6.8)   |        | 35(3.9)   | 116(12.9)  |        |
| More than 2 relatives (%)                                                                                                | 229(25.4)  | 142(15.7)  | 87(9.6)   |        | 85(9.4)   | 141(15.6)  |        |
| Aunts or uncles (%)                                                                                                      | 125(13.9)  | 85(9.4)    | 40(4.4)   |        | 43(4.8)   | 78(8.6)    |        |
| Relatives (%)                                                                                                            | 67(7.4)    | 38(4.2)    | 29(3.2)   |        | 11(1.2)   | 54(6)      |        |
| <b>Marital status</b>                                                                                                    |            |            |           | <0.001 |           |            | <0.001 |
| Single (%)                                                                                                               | 263(7.2)   | 117(3.2)   | 208(5.7)  |        | 92(2.5)   | 188(5.1)   |        |
| Married (%)                                                                                                              | 3069(83.9) | 2333(63.8) | 991(27.1) |        | 783(21.4) | 2345(64.1) |        |
| Widow or Divorce (%)                                                                                                     | 327(8.9)   | 121(3.3)   | 275(7.5)  |        | 48(1.3)   | 300(8.2)   |        |
| <b>Neurologic disorder</b>                                                                                               |            |            |           | <0.05  |           |            | <0.001 |
| None (%)                                                                                                                 | 3614(89.3) | 2314(57.2) | 1297(32)  |        | 838(20.7) | 2499(61.7) |        |
| Stroke, TIA, Hemorrhage (%)                                                                                              | 230(5.7)   | 146(3.6)   | 84(2.1)   |        | 24(0.6)   | 198(4.9)   |        |
| Migraine (%)                                                                                                             | 31(0.8)    | 11(0.3)    | 21(0.5)   |        | 17(0.4)   | 15(0.4)    |        |
| Epilepsy (%)                                                                                                             | 64(1.6)    | 38(0.9)    | 26(0.6)   |        | 22(0.5)   | 39(1)      |        |
| Guillain-Barré, Trauma, Surgery, Dystonia, Dementia, Arnold-Chiari, Psychiatry, MS, Atrophy, Encephalitis, CP, Tumor (%) | 108(2.7)   | 62(1.5)    | 46(1.1)   |        | 22(0.5)   | 82(2)      |        |

Supplementary Table 2. Demographic characteristics of Iranian PD patients and significant differences according to gender and age of onset.