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| eTable 1 Post-operative deep brain stimulation effectiveness between general anesthesia (n = 10) and local anesthesia (n = 9) group |
|  | General anesthesia | Local anesthesia | P-value |
|  | medication off/ deep brain stimulation off | medication off/deep brain stimulation on | Difference | Improvement(%)# | medication off/ deep brain stimulation off | medication off/deep brain stimulation on | Difference | Improvement(%)# | Difference§ | %¶ |
| Unified Parkinson’s disease rating scale |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part I | 6 | ± | 3 | 3 | ± | 2 | 2 | ± | 2 | 39 | ± | 30 | 5 | ± | 2 | 3 | ± | 1 | 1 | ± | 1 | 24 | ± | 22 | 0.556 |  | 0.244 |  |
| Part II | 29 | ± | 8 | 14 | ± | 6 | 15 | ± | 7 | 53 | ± | 16 | 21 | ± | 9 | 13 | ± | 6 | 8 | ± | 8 | 34 | ± | 23 | 0.040 | \* | 0.041 | \* |
| Part III | 57 | ± | 12 | 31 | ± | 10 | 26 | ± | 13 | 45 | ± | 17 | 43 | ± | 13 | 25 | ± | 7 | 18 | ± | 11 | 38 | ± | 17 | 0.235 |  | 0.369 |  |
| Brady | 22 | ± | 4 | 15 | ± | 4 | 7 | ± | 4 | 33 | ± | 18 | 18 | ± | 5 | 13 | ± | 3 | 5 | ± | 4 | 24 | ± | 15 | 0.175 |  | 0.270 |  |
| Tremor | 10 | ± | 8 | 3 | ± | 4 | 7 | ± | 6 | 58 | ± | 36 | 6 | ± | 5 | 1 | ± | 1 | 4 | ± | 5 | 51 | ± | 41 | 0.322 |  | 0.804 |  |
| Rigidity | 11 | ± | 3 | 5 | ± | 3 | 7 | ± | 4 | 57 | ± | 24 | 8 | ± | 4 | 3 | ± | 2 | 5 | ± | 4 | 61 | ± | 27 | 0.411 |  | 0.595 |  |
| Posture & Gait | 5 | ± | 1 | 3 | ± | 1 | 2 | ± | 1 | 34 | ± | 21 | 4 | ± | 1 | 3 | ± | 1 | 1 | ± | 1 | 22 | ± | 24 | 0.236 |  | 0.281 |  |
| Axial | 12 | ± | 4 | 7 | ± | 3 | 5 | ± | 3 | 38 | ± | 23 | 9 | ± | 3 | 7 | ± | 3 | 3 | ± | 3 | 25 | ± | 22 | 0.137 |  | 0.140 |  |
| Part IV |  |  |  | 4 | ± | 2 |  |  |  |  |  |  |  |  |  | 2 | ± | 1 |  |  |  |  |  |  |  |  |  |  |
| Total | 97 | ± | 22 | 51 | ± | 15 | 46 | ± | 21 | 46 | ± | 15 | 74 | ± | 24 | 43 | ± | 14 | 31 | ± | 20 | 38 | ± | 18 | 0.220 |  | 0.414 |  |
| Hoehn and Yahr stage | 4 | ± | 1 | 3 | ± | 0 | 1 | ± | 1 | 23 | ± | 23 | 3 | ± | 1 | 3 | ± | 1 | 0 | ± | 1 | 12 | ± | 15 | 0.217 |  | 0.190 |  |
| Activity of daily living score | 44 | ± | 23 | 81 | ± | 9 | -37 | ± | 25 | -170 | ± | 243 | 66 | ± | 19 | 86 | ± | 10 | -20 | ± | 16 | -39 | ± | 39 | 0.107 |  | 0.054 |  |
| Data was presented as mean ± SD;Asterisk (\*) indicates a significant difference with P value < 0.05.#Improvement: medication off deep brain stimulation off scores – medication off deep brain stimulation on scores / medication off deep brain stimulation off scores X 100%§P-value: statistics for the difference of scores between general anesthesia and local anesthesia groups¶P-value: statistics for improvement (%) between general anesthesia and local anesthesia groups |