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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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |