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| eTable 2 Post-operative benefit of deep brain stimulation compared with pre-operative medication off status between general anesthesia (n = 10) and local anesthesia (n = 9) group |
|  | General anesthesia | Local anesthesia | P-value |
|  | medication off | medication offdeep brain stimulation on | Difference | Improvement(%)# | medication off | medication offdeep brain stimulation on | Difference | Improvement(%)# | Difference§ | %¶ |
| Unified Parkinson’s disease rating scale |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part I | 4 | ± | 2 | 3 | ± | 2 | 1 | ± | 2 | 15 | ± | 49 | 4 | ± | 1 | 3 | ± | 1 | 1 | ± | 1 | 14 | ± | 32 | 0.868 | 0.901 |
| Part II | 19 | ± | 6 | 14 | ± | 6 | 6 | ± | 7 | 25 | ± | 35 | 17 | ± | 8 | 13 | ± | 6 | 4 | ± | 6 | 10 | ± | 68 | 0.772 | 0.967 |
| Part III | 42 | ± | 8 | 31 | ± | 10 | 12 | ± | 12 | 25 | ± | 29 | 34 | ± | 13 | 25 | ± | 7 | 9 | ± | 12 | 16 | ± | 42 | 0.624 | 0.935 |
| Brady | 17 | ± | 4 | 15 | ± | 4 | 3 | ± | 6 | 11 | ± | 34 | 15 | ± | 5 | 13 | ± | 3 | 1 | ± | 4 | 1 | ± | 34 | 0.513 | 0.391 |
| Tremor | 5 | ± | 5 | 3 | ± | 4 | 2 | ± | 3 | 24 | ± | 75 | 3 | ± | 4 | 1 | ± | 1 | 2 | ± | 4 | 2 | ± | 98 | 0.484 | 0.483 |
| Rigidity | 9 | ± | 2 | 5 | ± | 3 | 4 | ± | 3 | 46 | ± | 32 | 8 | ± | 5 | 3 | ± | 2 | 5 | ± | 5 | 51 | ± | 36 | 0.967 | 0.744 |
| Posture & Gait | 4 | ± | 2 | 3 | ± | 1 | 1 | ± | 2 | 13 | ± | 47 | 3 | ± | 1 | 3 | ± | 1 | 0 | ± | 1 | -21 | ± | 73 | 0.206 | 0.179 |
| Axial | 9 | ± | 4 | 7 | ± | 3 | 2 | ± | 4 | 21 | ± | 31 | 7 | ± | 3 | 7 | ± | 3 | 1 | ± | 2 | 4 | ± | 37 | 0.510 | 0.413 |
| Part IV | 7 | ± | 5 | 4 | ± | 2 | 3 | ± | 4 | 43 | ± | 40 | 3 | ± | 4 | 2 | ± | 1 | 2 | ± | 4 | 33 | ± | 25 | 0.249 | 0.566 |
| Total | 73 | ± | 15 | 51 | ± | 15 | 21 | ± | 20 | 27 | ± | 27 | 58 | ± | 21 | 43 | ± | 14 | 15 | ± | 17 | 20 | ± | 33 | 0.462 | 0.935 |
| Hoehn and Yahr stage | 3 | ± | 1 | 3 | ± | 0 | 0 | ± | 1 | 10 | ± | 17 | 3 | ± | 1 | 3 | ± | 1 | 0 | ± | 0 | -1 | ± | 15 | 0.110 | 0.132 |
| Activity of daily living score | 77 | ± | 16 | 81 | ± | 9 | -4 | ± | 19 | -11 | ± | 31 | 90 | ± | 9 | 86 | ± | 10 | 4 | ± | 10 | 5 | ± | 11 | 0.221 | 0.224 |
| Data was presented as mean ± SD;#Improvement: medication off scores – medication off deep brain stimulation on scores / medication 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 |