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| eTabel 3 Evolution of Parkinson’s disease from pre-operative medication off to post-operative medication off deep brain stimulation off status |
|  | General anesthesia (n = 10) | Local anesthesia (n = 9) | P-value |
|  | medication off | medication off deep brain stimulation off | Difference | Improvement(%)# | medication off | medication off deep brain stimulation off | Difference | Improvement(%)# | Difference§ | %¶ |
| Unified Parkinson’s disease rating scale |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part I | 4 | ± | 2 | 6 | ± | 3 | -1 | ± | 2 | -44 | ± | 72 | 4 | ± | 1 | 5 | ± | 2 | -1 | ± | 2 | -22 | ± | 49 | 0.804 |  | 0.743 |
| Part II | 19 | ± | 6 | 29 | ± | 8 | -10 | ± | 8 | -66 | ± | 83 | 17 | ± | 8 | 21 | ± | 9 | -4 | ± | 8 | -47 | ± | 109 | 0.164 |  | 0.288 |
| Part III | 42 | ± | 8 | 57 | ± | 12 | -14 | ± | 13 | -37 | ± | 38 | 34 | ± | 13 | 43 | ± | 13 | -9 | ± | 12 | -39 | ± | 69 | 0.326 |  | 0.744 |
| Brady | 17 | ± | 4 | 22 | ± | 4 | -5 | ± | 5 | -33 | ± | 41 | 15 | ± | 5 | 18 | ± | 5 | -4 | ± | 3 | -30 | ± | 35 | 0.436 |  | 0.744 |
| Tremor | 5 | ± | 5 | 10 | ± | 8 | -5 | ± | 6 | -156 | ± | 307 | 3 | ± | 4 | 6 | ± | 5 | -2 | ± | 4 | -90 | ± | 172 | 0.219 |  | 0.437 |
| Rigidity | 9 | ± | 2 | 11 | ± | 3 | -3 | ± | 4 | -37 | ± | 51 | 8 | ± | 5 | 8 | ± | 4 | 0 | ± | 4 | -34 | ± | 94 | 0.267 |  | 0.461 |
| Posture & Gait | 4 | ± | 2 | 5 | ± | 1 | -1 | ± | 1 | -32 | ± | 52 | 3 | ± | 1 | 4 | ± | 1 | -1 | ± | 1 | -61 | ± | 97 | 0.553 |  | 0.532 |
| Axial | 9 | ± | 4 | 12 | ± | 4 | -2 | ± | 3 | -31 | ± | 47 | 7 | ± | 3 | 9 | ± | 3 | -2 | ± | 3 | -33 | ± | 49 | 0.711 |  | 0.967 |
| Total | 73 | ± | 15 | 97 | ± | 22 | -24 | ± | 17 | -35 | ± | 29 | 58 | ± | 21 | 74 | ± | 24 | -15 | ± | 17 | -34 | ± | 56 | 0.270 |  | 0.253 |
| Hoehn and Yahr stage | 3 | ± | 1 | 4 | ± | 1 | -1 | ± | 1 | -21 | ± | 28 | 3 | ± | 1 | 3 | ± | 1 | 0 | ± | 1 | -17 | ± | 28 | 0.797 |  | 0.798 |
| Activity of daily living score | 77 | ± | 16 | 44 | ± | 23 | 33 | ± | 23 | 43 | ± | 25 | 90 | ± | 9 | 66 | ± | 19 | 24 | ± | 17 | 27 | ± | 19 | 0.382 |  | 0.120 |
| Data was presented as mean ± SD; #Improvement: medication off scores – medication off deep brain stimulation off 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 |