**Supplementary table 1: Distribution of Parkinson's disease cases on chronic deep brain stimulation therapy with IPG replacements based on their indication, type and post-replacement neurological worsening.**

|  |  |  |
| --- | --- | --- |
| Indication of IPG replacement |  Dual-channel |  Single-channel |
| No. of IPG | Post-replacement neurological worsening  | Time to replacement in months(Mean ± SD) | No. of IPG | Post-replacement neurological worsening | Time to replacement in months(Mean ± SD) |
| 1.Elective replacement | 50 | 14 | 52.84± 15.20 | 2 | 0 | 48.5±30.40 |
| 2.End of service or battery failure | 5 | 1 | 48.8±7.7 | 1 | 0 | 30 |
| 3.Hardware  malfunction | 2 | 1 | 11±9.8 | 0 | 0 | - |
| 4.Skin erosion | 1 | 1 | 12 | 0 | 0 | - |
| 5.IPG-site  infection  | 1 | 0 | 2 | 0 | 0 | - |
| Total | 59 | 17 | 49.52±18.02 | 3 | 0 | 42.3 ±24.0 |

Abbreviations: IPG: implantable pulse generator.