

**Supplementary Table 1.** Clinical variables of Parkinson's disease patients with deep brain stimulation of the subthalamic nucleus from baseline up to 13-years post-operative follow-up

Clinical variables	Before surgery	6 Months	1 Year	2 Years	3 Years	5 Years	7 Years	10 Years	13 Years*
LEDD (mg/day)	1,035.84 ± 516.80	393.99 ± 305.83	431.16 ± 350.07	472.64 ± 356.07	537.75 ± 411.53	667.05 ± 483.66	651.59 ± 427.17	614.06 ± 363.75	508.01 ± 280.78
UPDRS part 1 score	1.93 ± 2.12	2.33 ± 2.16	2.64 ± 2.42	2.51 ± 2.00	2.72 ± 2.54	3.22 ± 2.23	2.84 ± 2.27	3.47 ± 2.9	2.69 ± 2.46
UPDRS part 2 score	9.45 ± 7.31	9.2 ± 5.83	10.28 ± 6.91	10.39 ± 6.92	11.36 ± 7.49	15.55 ± 8.80	13.73 ± 7.07	17.27 ± 9.45	13.15 ± 10.25
UPDRS part 3 score	20.08 ± 11.59	15.15 ± 8.73	15.93 ± 8.85	15.91 ± 8.17	20.10 ± 11.02	23.81 ± 12.36	24.04 ± 11.18	27.17 ± 13.86	27.35 ± 10.69
Dyskinesia duration (hr)	4.52 ± 3.79	0.88 ± 2.01	0.87 ± 2.07	1.02 ± 2.80	1.15 ± 2.35	1.13 ± 2.72	1.13 ± 2.29	1.13 ± 3.19	1.06 ± 1.85
Off duration (hr)	6.30 ± 3.51	3.42 ± 3.71	3.55 ± 3.76	3.28 ± 3.63	3.57 ± 3.75	4.21 ± 4.15	4.49 ± 4.11	4.94 ± 4.44	6.6 ± 5.22
UPDRS total score	31.40 ± 15.71	26.82 ± 13.47	28.63 ± 14.53	29.06 ± 13.76	34.20 ± 17.81	42.54 ± 19.84	40.75 ± 16.22	48.11 ± 22.11	43.04 ± 18.71
H&Y score	2.33 ± 0.57	2.31 ± 0.62	2.34 ± 0.67	2.43 ± 0.53	2.58 ± 0.72	2.94 ± 0.87	2.73 ± 0.85	2.72 ± 0.72	2.81 ± 0.95

Data are presented as mean ± standard deviation. \*17 patients reached 13-years post-operative follow-up during the study period and were included in the data set. LEDD, levodopa equivalent daily dose; UPDRS, Unified Parkinson's Disease Rating Scale; H&Y, Hoehn and Yahr.