

Table 1 The demographic details of the patients

Patient	Age/ gender	Disease duration (years)	Motor UPDRS OFF/ ON	Hoehn Yahr Score	L-dopa equivalent doses (mg/day)	Side of micro- electrode tract of nuclei	No. of neuron analyzed		
							4–5 Hz band oscillatory neuron(%)	βFB oscillatory neuron (%)	non-oscillatory neuron (%)
1	46/M	2	63.5/ 35.5	2.5	600	B-STN	2(28.6)	2(28.6)	3(42.9)
2	57/F	4	40/16.5	2.5	600	B-STN	6(85.7)	1(14.3)	0(0)
3	67/M	7	62.5/43	4	775	B-STN	6(54.5)	3(27.3)	2(18.2)
4	56/M	8	20/12	1.5	750	L-STN	3(42.9)	2(28.6)	2(28.6)
5	62/F	10	41.5/21	3	150	R-STN	4(80)	0(0)	1(20)
6	71/F	10	40/19	3	675	L-STN	2(33.3)	2(33.3)	2(33.3)
7	56/M	5	45/25.5	2.5	250	L-STN	3(37.5)	1(12.5)	4(50)
8	64/F	12	57.5/40	3	375	R-STN	4(50)	0(0)	4(50)
9	67/M	4	30/18.5	2.5	400	L(STN)	0(0)	2(50)	2(50)
10	66/F	7	61.5/31	3	600	B-STN	0(0)	9(90)	1(10)
11	68/M	4	52/26.5	2.5	675	B-STN	0(0)	0(0)	3(100)
12	61/F	5	44.5/ 24.5	2	300	L-GPi	1(14.3)	2(28.6)	4(57.1)
13	59/F	6	42.5/ 25.5	2.5	600	L-GPi	4(44.4)	2(22.2)	3(33.3)
14	57/M	6	56.5/32	3	600	R-GPi	8(66.7)	2(16.7)	2(16.7)
15	62/F	5	60/37.5	2.5	150	R-GPi	2(33.3)	2(33.3)	2(33.3)
16	51/F	7	52.5/ 26.5	2.5	400	L-GPi	3(30)	2(20)	5(50)
17	48/M	5	32.5/18	2.5	300	R-GPi	4(66.7)	1(16.7)	1(16.7)
18	58/M	10	59.5/ 33.5	4	600	L-GPi	1(20)	2(40)	2(40)
19	61/M	8	42/23.5	2.5	1200	L-GPi	0(0)	1(50)	1(50)
20	56/F	6	49/28	3	1800	R-GPi	0(0)	3(60)	2(40)
21	61/M	1	35/17.5	1.5	300	L-Vop/ Vim	4(40)/3(30)	1(10)/1(10)	1(10)/0(0)
22	68/M	5	30/15.5	1.5	200	L-Vop/ Vim	5(50)/0(0)	0(0)/0(0)	3(30)/2(20)
23	67/F	15	53/33	3	800	L-Vop/ Vim	3(50)/3(50)	0(0)/0(0)	0(0)/0(0)
24	49/M	6	55/32	2.5	600	R-Vop/ Vim	4(44.4)/4(44.4)	0(0)/0(0)	1(11.1)/0(0)
25	70/M	3	33/20	1.5	400	R-Vop/ Vim	6(54.5)/1(9.1)	1(9.1)/1(9.1)	1(9.1)/1(9.1)
26	64/F	2	39.5/ 27.5	2.5	600	R-Vop/ Vim	0(0)/2(100)	0(0)/0(0)	0(0)/0(0)
27	56/F	9	46.5/ 28.5	4	400	L-Vop/ Vim	5(50)/3(30)	0(0)/1(10)	0(0)/1(10)
28	49/F	2	37.5/ 20.5	1.5	600	L-Vop/ Vim	2(18.2)/5(45.5)	2(18.2)/1(9.1)	1(9.1)/0(0)
29	61/M	3	36.5/24	2.5	600	R-Vop/ Vim	0(0)/0(0)	0(0)/0(0)	4(80)/1(20)

Patients 1–11 belong to STN group, patients 12–20 belong to GPi group, patients 21–29 belong to Vop/Vim group; M, male; F, female; UPDRS, United Parkinson's Disease Rating Scale; L-dopa equivalent daily doses (mg), calculated as sum of the dose of regular levodopa-benserazide or levodopa-carbidopa; B, Bilateral; L, Left; R, Right; No: number; βFB: β frequency band oscillatory neurons; STN: the subthalamic nucleus; GPi: the globus pallidus internus; Vop: the ventral oral posterior nucleus of thalamus; Vim: the ventral intermediate of thalamus