

Supplementary Table S2. All treatment-emergent adverse events—post-DBS data excluded

	Number of events				Number of patients
	Mild	Moderate	Severe	Total	
<i>Total number of adverse events</i>	454	102	21	578	15
<i>Nervous system disorders</i>	159	27	3	189	15
On and off phenomenon	51	6	0	57	15
Dyskinesia	38	5	1	44	14
Headache	19	2	0	21	13
Akinesia	13	4	1	18	9
Dizziness	7	1	0	8	6
Dysarthria	3	3	0	6	4
Balance disorder	4	0	0	4	4
Somnolence	4	0	0	4	4
Tremor	1	3	0	4	3
Paresthesia	3	0	0	3	3
Sciatica	3	0	0	3	1
Cognitive disorder	1	1	0	2	1
Frontotemporal dementia	0	1	1	2	1
Syncope	2	0	0	2	2
Anosmia	1	0	0	1	1
Apraxia	0	1	0	1	1
Brain edema	1	0	0	1	1
Carpal tunnel syndrome	1	0	0	1	1
Cerebrovascular disorder	1	0	0	1	1
Dystonia	1	0	0	1	1
Hyporeflexia	1	0	0	1	1
Neuralgia	1	0	0	1	1
Presyncope	1	0	0	1	1
Psychomotor hyperactivity	1	0	0	1	1
Speech disorder	1	0	0	1	1
<i>Injury, poisoning, and procedural complications</i>	45	15	1	61	13
Fall	21	7	0	28	8
Head injury	5	0	0	5	3
Joint injury	2	2	0	4	4
Confusion postoperative	2	0	0	2	2
Facial bones fracture	0	2	0	2	1
Procedural hypertension	2	0	0	2	2
Contusion	1	0	0	1	1
Fracture	0	1	0	1	1
Injury	1	0	0	1	1
Laceration	1	0	0	1	1
Ligament sprain	0	1	0	1	1
Muscle strain	1	0	0	1	1
Pneumothorax traumatic	0	0	1	1	1
Procedural headache	1	0	0	1	1
Procedural hypotension	1	0	0	1	1
Procedural nausea	1	0	0	1	1
Procedural pain	1	0	0	1	1
Rib fracture	1	0	0	1	1
Road traffic accident	1	0	0	1	1
Subdural hematoma	1	0	0	1	1
Thermal burn	0	1	0	1	1
Tooth fracture	1	0	0	1	1
Traumatic hematoma	1	0	0	1	1
Upper limb fracture	0	1	0	1	1
<i>Psychiatric disorders</i>	47	12	2	61	14
Anxiety	10	1	0	11	7
Hallucination	10	3	0	13	6
Confused state	2	3	0	5	3
Delusional perception	4	0	0	4	4
Abnormal dreams	3	0	0	3	3
Hallucination, visual	3	0	0	3	3
Sleep disorder	3	0	0	3	2
Apathy	2	1	0	3	2

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Supplementary Table S2. (Continued)

	Number of events				Number of patients
	Mild	Moderate	Severe	Total	
Depression	1	1	1	3	3
Drug dependence	2	1	0	3	1
Illusion	2	0	0	2	1
Insomnia	2	0	0	2	2
Depressed mood	2	0	0	2	2
Irritability	1	0	0	1	1
Panic attack	0	1	0	1	1
<i>Musculoskeletal and connective tissue disorders</i>	<i>34</i>	<i>8</i>	<i>0</i>	<i>43</i>	<i>15</i>
Back pain	11	1	0	12	8
Musculoskeletal pain	4	1	0	5	4
Neck pain	5	1	0	6	5
Arthralgia	4	1	0	5	4
Pain in extremity	3	0	0	3	3
Myalgia	2	0	0	2	1
Osteoporosis	2	0	0	2	2
Arthritis	1	0	0	1	1
Intervertebral disc protrusion	0	1	0	1	1
Muscle spasms	1	0	0	1	1
Musculoskeletal stiffness ^a	0	0	0	1	1
Osteoarthritis	1	1	0	2	2
Rheumatoid arthritis	0	1	0	1	1
Rotator cuff syndrome	0	1	0	1	1
<i>Infections and infestations</i>	<i>21</i>	<i>5</i>	<i>4</i>	<i>30</i>	<i>11</i>
Bronchitis	6	0	0	6	5
Urinary tract infection	4	0	0	4	4
Fungal infection	3	0	0	3	3
Lung infection	1	2	0	3	1
Rhinitis	2	0	0	2	2
Bacteriuria	1	0	0	1	1
Erysipelas	0	2	0	2	1
Helicobacter infection	1	0	0	1	1
Herpes zoster	1	0	0	1	1
Liver abscess	0	0	1	1	1
Nasopharyngitis	1	0	0	1	1
Peritonitis	0	0	1	1	1
Sepsis	0	0	1	1	1
Septic shock	0	0	1	1	1
Tinea pedis	1	0	0	1	1
Tooth infection	0	1	0	1	1
<i>Gastrointestinal disorders</i>	<i>30</i>	<i>4</i>	<i>1</i>	<i>35</i>	<i>14</i>
Constipation	7	0	0	7	6
Nausea	7	0	0	7	6
Gastritis	5	0	0	5	4
Gastroesophageal reflux disease	4	0	0	4	3
Vomiting	4	0	0	4	3
Abdominal pain	0	2	0	2	1
Abdominal pain upper	2	0	0	2	2
Diarrhea	1	0	0	1	1
Dysphagia	0	1	0	1	1
Hematochezia	0	1	0	1	1
Volvulus	0	0	1	1	1
<i>General disorders and administration site conditions</i>	<i>20</i>	<i>4</i>	<i>1</i>	<i>25</i>	<i>7</i>
Edema peripheral	7	0	0	7	4
Chest pain	3	2	0	5	3
Asthenia	1	1	0	2	1
Drug intolerance	2	0	0	2	1
Hernia pain	1	1	0	2	1
Hypothermia	2	0	0	2	2
Malaise	1	0	0	2	2
Pyrexia	2	0	0	2	2
Edema	1	0	0	1	1

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Supplementary Table S2. (Continued)

	Number of events				Number of patients
	Mild	Moderate	Severe	Total	
Pain	0	0	1	1	1
<i>Investigations</i>	23	1	1	25	10
Nuclear magnetic resonance imaging brain abnormal	7	0	0	7	6
Weight decreased	3	1	1	5	3
Nuclear magnetic resonance imaging abnormal	3	0	0	3	2
Chest scan	2	0	0	2	2
Weight increased	2	0	0	2	2
Aspartate aminotransferase increased	1	0	0	1	1
C-reactive protein increased	1	0	0	1	1
Hematocrit decreased	1	0	0	1	1
Hemoglobin decreased	1	0	0	1	1
Red blood cell count decreased	1	0	0	1	1
White blood cell count decreased	1	0	0	1	1
<i>Vascular disorders</i>	10	6	1	17	9
Hypertension	4	2	0	6	2
Temporal arteritis	1	2	1	4	1
Orthostatic hypotension	3	0	0	3	3
Hypotension	1	1	0	2	2
Hot flush	1	0	0	1	1
Jugular vein thrombosis	0	1	0	1	1
<i>Respiratory, thoracic, and mediastinal disorders</i>	9	3	1	13	7
Cough	3	0	0	3	3
Pulmonary mass	3	0	0	3	3
Atelectasis	0	0	1	1	1
Bronchospasm	1	0	0	1	1
Dysphonia	1	0	0	1	1
Dyspnea exertional	0	1	0	1	1
Interstitial lung disease	1	0	0	1	1
Pleural effusion	0	1	0	1	1
Pneumonia aspiration	0	1	0	1	1
<i>Metabolism and nutrition disorders</i>	11	4	0	15	8
Diabetes mellitus	2	3	0	5	2
Hypertriglyceridemia	5	0	0	5	4
Decreased appetite	1	1	0	2	1
Dehydration	1	0	0	1	1
Hypercholesterolemia	1	0	0	1	1
Hyperglycemia	1	0	0	1	1
<i>Skin and subcutaneous tissue disorders</i>	12	4	0	16	7
Skin ulcer	1	2	0	3	1
Psoriasis	2	0	0	2	2
Rash	2	0	0	2	2
Dermatitis allergic	1	0	0	1	1
Dermatitis diaper	1	0	0	1	1
Eczema	0	1	0	1	1
Erythema	1	0	0	1	1
Hyperkeratosis	1	0	0	1	1
Livedo reticularis	0	1	0	1	1
Papule	1	0	0	1	1
Skin lesion	1	0	0	1	1
Skin mass	1	0	0	1	1
<i>Renal and urinary disorders</i>	8	2	2	12	6
Micturition urgency	2	1	1	4	3
Hematuria	1	0	0	1	1
Pollakiuria	2	0	0	2	2
Dysuria	1	0	0	1	1
Glomerulonephritis	0	1	0	1	1
Nocturia	1	0	0	1	1
Renal cyst	1	0	0	1	1
Urinary incontinence	0	1	0	1	1
<i>Cardiac disorders</i>	5	1	0	6	4
Tachycardia	2	0	0	2	2

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Supplementary Table S2. (Continued)

	Number of events				Number of patients
	Mild	Moderate	Severe	Total	
Arrhythmia	0	1	0	1	1
Cardiac failure	1	0	0	1	1
Palpitations	1	0	0	1	1
Sinus tachycardia	1	0	0	1	1
<i>Hepatobiliary disorders</i>	<i>1</i>	<i>1</i>	<i>3</i>	<i>5</i>	<i>2</i>
Cholangitis	0	1	1	2	1
Hepatic artery aneurysm	0	0	1	1	1
Hepatic steatosis	1	0	0	1	1
Hepatic vein thrombosis	0	0	1	1	1
<i>Blood and lymphatic system disorders</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>4</i>	<i>3</i>
Anemia	1	2	1	4	3
<i>Neoplasms benign, malignant, and unspecified (including cysts and polyps)</i>	<i>2</i>	<i>2</i>	<i>0</i>	<i>4</i>	<i>2</i>
Hemangioma of bone	0	2	0	2	1
Cerebral hygroma	1	0	0	1	1
Thyroid neoplasm	1	0	0	1	1
<i>Eye disorders</i>	<i>4</i>	<i>0</i>	<i>0</i>	<i>4</i>	<i>2</i>
Cataract	1	0	0	1	1
Diplopia	2	0	0	2	1
Presbyopia	1	0	0	1	1
<i>Reproductive system and breast disorders</i>	<i>2</i>	<i>1</i>	<i>0</i>	<i>3</i>	<i>3</i>
Erectile dysfunction	1	0	0	1	1
Menstrual disorder	1	0	0	1	1
Prostatitis	0	1	0	1	1
<i>Surgical and medical procedures</i>	<i>3</i>	<i>0</i>	<i>0</i>	<i>3</i>	<i>2</i>
Dental implantation	2	0	0	2	1
Cholecystectomy	1	0	0	1	1
<i>Ear and labyrinth disorders</i>	<i>5</i>	<i>0</i>	<i>0</i>	<i>5</i>	<i>3</i>
Vertigo	2	0	0	2	1
Cerumen impaction	1	0	0	1	1
Ear discomfort	1	0	0	1	1
Hypoacusis	1	0	0	1	1
<i>Endocrine disorders</i>	<i>2</i>	<i>0</i>	<i>0</i>	<i>2</i>	<i>2</i>
Goiter	1	0	0	1	1
Hypothyroidism	1	0	0	1	1

^aAdverse event severity is missing or unknown.