



Neurosurgery

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DEEP BRAIN STIMULATION SURGERY DATA
10/2/02 – 9/13/06

Procedure Population

Total Parkinsonian Patients	24	
Total Essential Tremor Patients	22	
Total Dystonia Patients	3	
Total Electrode Implantation Procedures	73	
Total Primary Bilateral Electrode Implantation Procedures	20	(27.4%)

Complications (Literature Comparisons)

	N	(%_{NSC})	(%_{LIT})
Death (pulmonary embolism; aspiration pneumonia)	0	(0)	(0.6)
Intracranial Hemorrhage	0	(0)	(1.1-9.8)
Intracranial Hemorrhage w/Neurological Deficit	0	(0)	(0.6-7.3)
Transient Confusion	3	(4.1)	(3.8-14.3)
Permanent Confusion	0	(0)	(1.0-3.8)
Seizures	0	(0)	(1.1-8.6)
Worsening Memory	0	(0)	(5.0-7.7)
Depression	0	(0)	(2.9-7.7)
Gait Disturbance	0	(0)	(8.6)
Postural Instability	0	(0)	(10.0)
Visual Disturbance	0	(0)	(2.0-2.9)
Dysphagia	0	(0)	(3.8)
Dysarthria	0	(0)	(1.0-28.6)
Increased Drooling	0	(0)	(10.0)
Increased Dyskinesia	0	(0)	(2.0-7.3)
Dystonia	0	(0)	(4.9)
Lead Migration Requiring Revision	1	(1.4)	(2.9-10.0)
Lead/Extension Wire Fracture Requiring Revision	1	(1.4)	(1.0-5.7)
Lead Revision for Different Target	1	(1.4)	(20.0)
Lead Misplacement Requiring Revision	0	(0)	(1.0-25.7)
Meningitis Requiring Explantation	1	(1.4)	(3.8)
Scalp Infection Requiring Explantation	1	(1.4)	(3.8)
Delayed Scalp Infection Requiring Removal and Revision	1	(1.4)	N/A
IPG Site Infection Requiring Revision	1	(1.4)	(2.9)
Skin Erosion Requiring Revision	1	(1.4)	(1.0-4.4)
CSF Leak	1	(1.4)	(0.6-23.5)
IPG Malfunction Requiring Revision	0	(0)	(1.0-22.9)
IPG Repositioning for Cosmesis or Pain	0	(0)	(1.7)
Seroma	1	(1.4)	(1.0-2.4)
Allergic Reaction to Implant	0	(0)	(0.6)