DEEP BRAIN STIMULATION FOR ESSENTIAL TREMOR AND PARKINSON'S DISEASE Medicare National Coverage Determination (NCD) 160.24 Checklist

	NCD 160.24	Patient Name: MR:
Eff	ective Date: I	for services performed on or after 4/1/2003
Deep brain stimulation (DBS) refers to high-frequency electrical stimulation of anatomic regions deep within the brain utilizing neurosurgically implanted electrodes on one (unilateral) or both (bilateral) sides of the brain. The targeted areas are: the thalamic ventralis intermedius nucleus (VIM), subthalamic nucleus (STN) and globus pallidus interna (GPi). Essential tremor (ET) is a progressive, disabling tremor most often affecting the hands and at times head, voice and legs. For patients who do not respond or cannot tolerate medications, thalamic VIM DBS may be helpful for symptomatic relief of tremor.		
Parkinson's disease (PD) is an age-related progressive neurodegenerative disorder involving the loss of dopaminergic cells in the substantia nigra of the midbrain. The disease is characterized by tremor, rigidity, bradykinesia and progressive postural instability. For patients who become unresponsive to medical treatments and/or have intolerable side effects from medications, DBS for symptom relief may be considered.		
GENERAL REQUIREMENTS		
	Must be a Fo	od and Drug Administration (FDA) approved devices for DBS or devices used in accordance with FDA approved protocols governing Category B Investigational Device Exemption (IDE) DBS clinical trials.
	Neurosurgeo procedures.	ns must be properly trained in the procedure, have experience with the surgical management of movement disorders, including DBS therapy, and have experience performing stereotactic neurosurgical
		ams must have training and experience with DBS systems, including knowledge of anatomical and neurophysiological characteristics for localizing the targeted nucleus, surgical and/or implantation or the DBS system, and operational and functional characteristics of the device.
Physicians specializing in movement disorders must be involved in both patient selection and post-procedure care.		
	(b) operating	ging equipment (MRI and/or CT) for pre-operative stereotactic localization and targeting of the surgical site(s); grooms with all necessary equipment for stereotactic surgery; and
5.06		ervices necessary for care of patients undergoing this procedure and any potential complications arising intraoperatively or postoperatively.
 Safety Notes: Patients who undergo DBS implantation should not be exposed to diathermy (deep heat treatment including shortwave diathermy, microwave diathermy and ultrasound diathermy) or any type of MRI which may adversely affect the DBS system or adversely affect the brain around the implanted electrodes. The DBS should be performed with extreme caution in patients with cardiac pacemakers or other electronically controlled implants which may adversely affect or be affected by the DBS system. 		
Diagnosis Coding: The following diagnosis codes are covered: • ICD-10-CM G20 - Parkinson's disease • ICD-10-CM G25.0 - Essential tremor • ICD-10-CM G25.2 - Other specified form of tremor		
		ICPCS Procedure Codes can be found in the Medicare Claims Processing Manual, Chapter 32 Section 50
Thalamic VIM DBS (unilateral or bilateral) IS considered medically necessary when all of the criteria below is met.		
		remor based on postural or kinetic tremors of hand(s) without other neurologic signs, OR
		Parkinson's Disease (presence of at least 2 cardinal PD features (tremor, rigidity or bradykinesia)) which is of a tremor-dominant form; and
		Jing tremor of at least level 3 or 4 on the Fahn-Tolosa-Marin Clinical Tremor Rating Scale (or equivalent scale) in the extremity intended for treatment, causing significant limitation in daily activities nal medical therapy; and
Uillingness and ability to cooperate during conscious operative procedure, as well as during post-surgical evaluations, adjustments of medications and stimulator settings.		nd ability to cooperate during conscious operative procedure, as well as during post-surgical evaluations, adjustments of medications and stimulator settings.
STN or GPi DBS (unilateral or bilateral) IS considered medically necessary when all of crteria below is met.		
	Diagnosis of	Parkinson's Disease based on the presence of at least 2 cardinal PD features (tremor, rigidity or bradykinesia); and
	Advanced idi	opathic Parkinson's Disease as determined by the use of Hoehn and Yahr stage or Unified Parkinson's Disease Rating Scale (UPDRS) part III motor subscale; and
	L-dopa respo	nsive with clearly defined "on" periods; and
		sabling Parkinson's symptoms or drug side effects (e.g., dyskinesias, motor fluctuations, or disabling "off" periods) despite optimal medical therapy; and
	Willingness a	nd ability to cooperate during conscious operative procedure, as well as during post-surgical evaluations, adjustments of medications and stimulator settings.
		NONCOVERED INDICATIONS
		xovered for ET or PD patients with any of the following: Parkinson's disease or "Parkinson's Plus" syndromes.
 Cognitive impairment, dementia or depression which would be worsened by or would interfere with the patient's ability to benefit from DBS. Current psychosis, alcohol abuse or other drug abuse. 		
4. Structural lesions such as basal ganglionic stroke, tumor or vascular malformation as etiology of the movement disorder.		
 5. Previous movement disorder surgery within the affected basal ganglion. 6. Significant medical, surgical, neurologic or orthopedic co-morbidities contraindicating DBS surgery or stimulation. 		
	ecklist comple	
Disclaimer: The content of the checklists were created as an educational tool. Use of these documents are not intended as a replacement for the documentation requirements published in National or Local Coverage Determinations, or the CMS's documentation guidelines, written law or regulations. Medicare policy changes frequently; Providers/Departments are reminded to review current National and Local Coverage Determination and Policy Articles for specific documentation and coding guidelines.		