

5. DBS Procedure Mapping



Indication for Surgery*: Parkinson Disease Essential Tremor Dystonia

Anatomical Target: PPN STN Gpi VIM

Type of Procedure: Uni-lateral Bi-lateral

Type of operation:

Procedure Timing:

Anesthesia applied:

Standard DBS Procedure Research Procedure (atypical)

Regular Timing Irregular timing (e.g. unforeseen events)

Local Anesthesia General Anesthesia

Main Procedure Steps:

SIDE ONE TIMING

SIDE TWO (BILATERAL)

Step	Main Procedure Step	Select Technique(s) used in this step:	Moment and/or Location of activity:	SIDE ONE TIMING			SIDE TWO (BILATERAL)		
				Start Time	End Time	Activity Duration	Start Time	End Time	Activity Duration
1	Medical Imaging - Without Headframe	<input type="radio"/> MRI <input type="radio"/> CAT <input type="radio"/> Both MRI & CAT (no frame) <input type="radio"/> Other (specify in Comment box)	<input type="radio"/> Same day as lead placement <input type="radio"/> 1-6 days before lead placement <input type="radio"/> 1-2 weeks before lead placem. <input type="radio"/> 2-3 weeks before lead placem. <input type="radio"/> >3 weeks before lead placem.			00:00	Phase 1 to 5: both sides together (fill only SIDE ONE timing)		
2	Stereotactic Frame Placement	<input type="radio"/> Leksell (Elekta) <input type="radio"/> CRW <input type="radio"/> RM <input type="radio"/> ZD <input type="radio"/> Other (specify in Comment box)	<input type="radio"/> Same day as lead placement <input type="radio"/> 1 or more days before surgery			00:00			
3	Medical Imaging - With Headframe	<input type="radio"/> MRI stereotactic <input type="radio"/> CAT stereotactic <input type="radio"/> Both MRI & CAT stereotactic <input type="radio"/> Ventriculography (in OR) <input type="radio"/> Other (specify in Comment box)	<input type="radio"/> Same day as lead placement <input type="radio"/> 1 or more days before surgery			00:00			
4	Pre-Surgical TARGET Planning	<input type="radio"/> AC/PC based with respect to MCP <input type="radio"/> Direct visualization targeting <input type="radio"/> Combination of above <input type="radio"/> Other (specify in Comment box)	<input type="radio"/> Same day as lead placement <input type="radio"/> 1 or more days before surgery			00:00			
5	Pre-Surgical TRAJECTORY Planning	<input type="radio"/> AC/PC based with respect to MCP <input type="radio"/> Direct visualization targeting <input type="radio"/> Combination of above <input type="radio"/> Other (specify in Comment box)	<input type="radio"/> Same day as lead placement <input type="radio"/> 1 or more days before surgery			00:00			

Main Procedure Steps:		Select Technique(s) used in this step:	Moment and/or Location of activity:	Start Time	End Time	Activity Duration	Start Time	End Time	Activity Duration	Comment / Other Technique	
6	Preparing Patient in/for OR, including Draping	<input type="radio"/> Using 1 large drape <input type="radio"/> Using small pieces <input type="radio"/> Other (specify in Comment box)	<input type="radio"/> Outside of operating room <input type="radio"/> Inside of operating room			00:00					
7	Stereotactic Arc fixation (to locate burr hole)	N/A	Part of Procedure in OR			00:00			00:00		
8	Incision & Making Burr Hole	<input type="radio"/> Curved <input type="radio"/> Straight <input type="radio"/> 1 large incision crossing both hemispheres <input type="radio"/> Other (specify in Comment box)				00:00			00:00		
	Specify Burr Hole	<input type="radio"/> 6 mm <input type="radio"/> 12 mm <input type="radio"/> 14 mm <input type="radio"/> Other (specify in Comment box)		(enter combined time for incision & burr hole above)							
9	Fixation of Lead Fixation Base (on burr hole)	<input type="radio"/> Medtronic Stimloc <input type="radio"/> Medtronic Cap <input type="radio"/> None (no fixation base used) <input type="radio"/> Other (specify in Comment box)				00:00			00:00		
10	Stereotactic Arc fixation (after burr hole)	N/A				00:00			00:00		

Main Procedure Steps:

		Select Technique(s) used in this step:	Moment and/or Location of activity:	Start Time	End Time	Activity Duration	Start Time	End Time	Activity Duration	Comment / Other Technique
11	Physiological confirmation of anatomical target <i>(two blocks provided only for those cases where two different techniques are used)</i>	<input type="radio"/> Impedance probe (for target confirmation) <input type="radio"/> Micro-electrode recording set-up <input type="radio"/> Using LFP techniques <input type="radio"/> No confirmation of localization <input type="radio"/> Other (specify in Comment box)	Specify # electrodes used (MER): <input type="radio"/> 1 electrode <input type="radio"/> 2 electrodes <input type="radio"/> 3 electrodes <input type="radio"/> 4 electrodes <input type="radio"/> 5 electrodes			00:00			00:00	
		<input type="radio"/> Impedance probe (for target confirmation) <input type="radio"/> Micro-electrode recording set-up <input type="radio"/> Using LFP techniques <input type="radio"/> No confirmation of localization <input type="radio"/> Other (specify in Comment box)					00:00			
12	Intra Operative Clinical Testing (with MER system) <i>(two blocks provided only for those cases where two different techniques are used)</i>	<input type="radio"/> Macro stimulation (MER electrode) <input type="radio"/> Macro stimulation (macro electr.) <input type="radio"/> N/A - no testing before DBS lead <input type="radio"/> Other (specify in Comment box)				00:00			00:00	
		<input type="radio"/> Macro stimulation (MER electrode) <input type="radio"/> Macro stimulation (macro electr.) <input type="radio"/> N/A - no testing before DBS lead <input type="radio"/> Other (specify in Comment box)					00:00			
13	DBS Lead Placement	<input type="radio"/> Using a guiding Cannula <input type="radio"/> NOT using a guiding Cannula <input type="radio"/> Other (specify in Comment box)				00:00			00:00	

Main Procedure Steps:		Select Technique(s) used in this step:	Moment and/or Location of activity:	Start Time	End Time	Activity Duration	Start Time	End Time	Activity Duration	Comment / Other Technique
14	Intra Operative Testing with DBS Lead	<input type="radio"/> Macro stimulation - using DBS <input type="radio"/> N/A - No testing with DBS Lead				00:00			00:00	
15	DBS Lead Fixation	<input type="radio"/> MedTronic Stimloc <input type="radio"/> MedTronic Cap <input type="radio"/> Bone cement <input type="radio"/> Mini plate <input type="radio"/> Glue <input type="radio"/> No fixation <input type="radio"/> Other (specify)				00:00			00:00	
16	PER OPERATIVE Final Lead Confirmation	<input type="radio"/> MRI <input type="radio"/> CAT <input type="radio"/> X-ray <input type="radio"/> Fluoroscopy <input type="radio"/> No final lead confirmation done <input type="radio"/> Other (specify in Comment box)				00:00			00:00	
17	Dismantle Equipment & Suturing Incision	N/A - No techniques to be specified	<input type="radio"/> Outside of OR <input type="radio"/> Inside of OR			00:00			00:00	
18	POST OPERATIVE Final Lead Confirmation	<input type="radio"/> MRI <input type="radio"/> CAT <input type="radio"/> X-ray <input type="radio"/> Fluoroscopy <input type="radio"/> No final lead confirmation done <input type="radio"/> Other (specify in Comment box)	<input type="radio"/> After 1-3 days <input type="radio"/> After 4-7 days <input type="radio"/> After 1-2 weeks <input type="radio"/> After more than 2 weeks			00:00			00:00	

Main Procedure Steps:

19 IPG Implant

Select Technique(s) used in this step:

- Dual channel IPG
- One or two single channels
- Other (specify in Comment box)

Moment and/or Location of activity:

- Same day as lead placement
- Within 1 week after l. implant
- 1-2 weeks after leads implant
- 2-3 weeks after leads implant
- >3 weeks after leads implant

Start Time

End Time

Activity Duration

Start Time

End Time

Activity Duration

Comment / Other Technique

Specify Location of IPG

- Subclavicular
- Abdominal
- Other (specify in Comment box)