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:	◯ Standard DBS Procedure ◯ Research Procedure (atypical)
Procedure Timing:	◯ Regular Timing ◯ Irregular timing (e.g. unforseen events)
Anesthesia applied:	◯ Local Anesthesia ◯ General Anesthesia

Main Procedure Steps:	Select Technique(s) used in this step:	Moment and/or Location of activity:	SIDE ONE TIMING: Start Time	End Time	Activity Duration	SIDE TWO (BILATERAL): Start Time	End Time	Activity Duration	Comment / Other Technique
1 **Medical Imaging - *Without Headframe***	◯ MRI ◯ CAT ◯ Both MRI & CAT (no frame) ◯ Other (specify in Comment box)	◯ Same day as lead placement ◯ 1-6 days before lead placement ◯ 1-2 weeks before lead placem. ◯ 2-3 weeks before lead placem. ◯ >3 weeks before lead placem.			00:00	Phase 1 to 5: both sides together (fill only SIDE ONE timing)			
2 **Stereotactic Frame Placement**	◯ Leksell (Elekta) ◯ CRW ◯ RM ◯ ZD ◯ Other (specify in Comment box)	◯ Same day as lead placement ◯ 1 or more days before surgery			00:00				
3 **Medical Imaging - *With Headframe***	◯ MRI stereotactic ◯ CAT stereotactic ◯ Both MRI & CAT stereotactic ◯ Ventriculography (in OR) ◯ Other (specify in Comment box)	◯ Same day as lead placement ◯ 1 or more days before surgery			00:00				
4 **Pre-Surgical TARGET Planning**	◯ AC/PC based with respect to MCP ◯ Direct visualization targeting ◯ Combination of above ◯ Other (specify in Comment box)	◯ Same day as lead placement ◯ 1 or more days before surgery			00:00				
5 **Pre-Surgical TRAJECTORY Planning**	◯ AC/PC based with respect to MCP ◯ Direct visualization targeting ◯ Combination of above ◯ Other (specify in Comment box)	◯ Same day as lead placement ◯ 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	◯ Using 1 large drape ◯ Using small pieces ◯ Other (specify in Comment box)	◯ Outside of operating room ◯ 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	◯ Curved ◯ Straight ◯ 1 large incision crossing both hemispheres ◯ Other (specify in Comment box)				00:00			00:00	
Specify Burr Hole	◯ 6 mm ◯ 12 mm ◯ 14 mm ◯ Other (specify in Comment box)		*(enter combined time for incision & burr hole above)*						
9 Fixation of Lead Fixation Base (on burr hole)	◯ Medtronic Stimloc ◯ Medtronic Cap ◯ None (no fixation base used) ◯ 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** *(two blocks provided only for those cases where two different techniques are used)*	○ Impedance probe (for target confirmation) ○ Micro-electrode recording set-up ○ Using LFP techniques ○ No confirmation of localization ○ Other (specify in Comment box)	Specify # electrodes used (MER): ○ 1 electrode ○ 2 electrodes ○ 3 electrodes ○ 4 electrodes ○ 5 electrodes			00:00			00:00	
	○ Impedance probe (for target confirmation) ○ Micro-electrode recording set-up ○ Using LFP techniques ○ No confirmation of localization ○ Other (specify in Comment box)				00:00			00:00	
12 **Intra Operative Clinical Testing (with MER system)** *(two blocks provided only for those cases where two different techniques are used)*	○ Macro stimulation (MER electrode) ○ Macro stimulation (macro electr.) ○ N/A - no testing before DBS lead ○ Other (specify in Comment box)				00:00			00:00	
	○ Macro stimulation (MER electrode) ○ Macro stimulation (macro electr.) ○ N/A - no testing before DBS lead ○ Other (specify in Comment box)				00:00			00:00	
13 **DBS Lead Placement**	○ Using a guiding Cannula ○ NOT using a guiding Cannula ○ 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	◯ Macro stimulation - using DBS ◯ N/A - No testing with DBS Lead				00:00			00:00	
15 DBS Lead Fixation	◯ MedTronic Stimloc ◯ MedTronic Cap ◯ Bone cement ◯ Mini plate ◯ Glue ◯ No fixation ◯ Other (specify)				00:00			00:00	
16 PER OPERATIVE Final Lead Confirmation	◯ MRI ◯ CAT ◯ X-ray ◯ Fluoroscopy ◯ No final lead confirmation done ◯ Other (specify in Comment box)				00:00			00:00	
17 Dismantle Equipment & Suturing Incision	N/A - No techniques to be specified	◯ Outside of OR ◯ Inside of OR			00:00			00:00	
18 POST OPERATIVE Final Lead Confirmation	◯ MRI ◯ CAT ◯ X-ray ◯ Fluoroscopy ◯ No final lead confirmation done ◯ Other (specify in Comment box)	◯ After 1-3 days ◯ After 4-7 days ◯ After 1-2 weeks ◯ After more than 2 weeks			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
19 IPG Implant	◯ Dual channel IPG ◯ One or two single channels ◯ Other (specify in Comment box)	◯ 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			00:00			00:00	
Specify Location of IPG	◯ Subclavicular ◯ Abdominal ◯ Other (specify in Comment box)								