

BrainSense™ Workflow for Parkinson's

IN CLINIC		OUT OF CLINIC		
STEP 1 BrainSense™ Survey	STEP 2 Streaming	STEP 3 Timeline	STEP 4 Thresholds	STEP 5 Events
Perform for Levels & Segments	Real time streaming whilst increasing mA	Out of clinic electronic diary with/without Thresholds	Enables tracking of Beta power within Timeline	Enables patient to record up to 4 customised Events
<p>For best results perform in an off medication state. PD medications & lesioning can have an effect on Beta</p> <p>To encourage concordance with the procedure, explain process to patient</p> <p>To avoid artifact, ask patient to stay still and not talk during Sensing</p> <p>If artifact is detected, consider lying patient on couch &/or go to 'Advanced Settings' in BrainSense™ Setup to allow artifact</p>	<p>Perform Signal Test in BrainSense™ Setup & allow artifact in 'Advanced Settings'</p> <p>Encourage patient to remain still when not assessing clinical symptoms</p> <p>Switch stimulation on & then start streaming</p> <p>Allow Beta pattern to form prior to increasing mA</p> <p>Increase mA slowly to avoid artifact</p> <p>Observe for Beta suppression & clinical efficacy</p> <p>Note the therapeutic window for threshold setup</p>	<p>Save a 'BrainSense' group that replicates the patient's 'Standard' settings group</p> <p>Can record from Sensing group for up to 60 days</p> <p>Evaluate at next visit by selecting 'Events' tab on home screen of clinician programmer. To upload data, select 'Read all events'</p> <p>Can also record during post-op 'Discovery' phase without stimulation</p>	<p>From 'Sensing Setup-Electrode Configuration' screen, select 'Direction' tab, followed by 'Next' tab to reach 'Thresholds'</p> <p>First set 'Upper threshold' mA to reflect start of clinical efficacy</p> <p>Then set 'Lower threshold' mA to reflect upper therapeutic window</p> <p>Use of Thresholds will be essential for aDBS</p>	<p>From clinician programmer home screen, select 'Events' tab, followed by 'Configure Patient Events'</p> <p>Select & tick 'LFP capture' box for each Event to be annotated to timeline</p> <p>At follow-up, select Events 'LFP snapshots' tab to filter specific Events & examine trends</p>

*It is also possible to record and track Gamma as an LFP in Parkinson's

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TOP TIPS

The Percept™ device allows a 2 metre range between the communicator and Percept device. However, for best results during Sensing, place the communicator as close as possible to the Percept device. If Bluetooth connection is poor, use the hard cable to connect the communicator to programmer.

When examining the patient, to avoid signal interruption, avoid standing between the communicator and the patient.

When Streaming, it is also possible to adjust the Pulse Width & Frequency.

Consider asking the patient to switch from their 'Standard' settings group to their 'BrainSense' group and record any Events for approximately 7 days before returning to clinic. Educate the patient how to use these features using their patient therapy controller.

Ask the patient to ensure they adjust the mA in the Sensing group to reflect the mA of the Standard group when activating the Sensing group.