GET A SENSE OF WHAT’S POSSIBLE
SEE DBS FROM A NEW PERSPECTIVE

PERCEPTR™ PC NEUROSTIMULATOR WITH BRAINSENSE™ TECHNOLOGY
FOR DBS THERAPY
With the only commercially available sensing technology in deep brain stimulation (DBS), the Percept™ PC device ushers in a new era of DBS therapy for Parkinson’s disease, essential tremor, dystonia, obsessive-compulsive disorder (OCD), and epilepsy.

Based on decades of commitment to DBS, Medtronic is redefining what’s possible with the Percept™ PC device. It enables you to personalize therapy based on objective data and brings forth several leading-edge innovations in a modern, ergonomic, easy-to-use solution that you and your patients want.

*Humanitarian Device: The effectiveness of this device for the treatment of dystonia and obsessive compulsive disorder has not been demonstrated.
BRAINSENSE™ TECHNOLOGY

3T MR CONDITIONAL

SMART BATTERY

ENGAGING, INTUITIVE PROGRAMMING
The Percept™ PC device features BrainSense™ technology, designed to capture brain signals (local field potential, or LFP) using the implanted DBS lead. These signals can be recorded simultaneously while delivering therapeutic stimulation, inside and outside the clinic.*

You can correlate these brain signals with stimulation and events capturing medication, symptoms, or side effects — to deliver personalized, data-driven treatment and adjust as patient needs evolve.**

The Percept™ PC device uses embedded software for patented processing and analysis of brain signals in real time. These signals are stored on the device and can be viewed using the intuitive clinician programmer. They can also be exported in JSON, a machine-readable format, for offline data processing.

*Signals may not be present or measurable in all patients.
**Clinical benefits of brain sensing have not been established.
BRAINSENSE™ TECHNOLOGY IS INFORMED BY 10+ YEARS OF SENSING RESEARCH
You can configure up to four custom events — such as medication adherence, side effects, and experiencing on/off state — that your patients can conveniently capture digitally using the intuitive patient programmer.

You can then view the events they’ve marked at their next visit right on your clinician programmer. These details can help you identify trends, and you have the option of correlating the events with brain signals.
TRACK EVENTS OVER TIME

CORRELATE EVENTS WITH BRAIN SIGNALS

CLINICIAN PROGRAMMER
**THE ONLY 3T AND 1.5T MR CONDITIONAL DBS SYSTEM**

The Percept™ PC device adds full-body 3T MRI eligibility for DBS patients, so they may benefit from the cutting-edge medical imaging when they need it. Plus, using a bipolar therapy group allows therapy to be ON during an MRI scan.

Now clinicians can use **MRI Eligibility** workflow on the clinician programmer to check MRI eligibility, generate an eligibility report, and place a patient’s device into the appropriate state for an MRI exam.

Patients can use **MRI Mode** on their patient programmer for a streamlined path to conditionally safe MRI scans, without needing to visit the clinician managing their DBS therapy.

*Medtronic DBS systems are MR Conditional and safe in the MR environment as long as certain conditions are met. If the conditions are not met, a significant risk is tissue lesions from component heating, especially at the lead electrodes, resulting in serious and permanent injury including coma, paralysis, or death. Refer to the MRI Guidelines for Medtronic Deep Brain Stimulation Systems for a complete list of conditions: http://professional.medtronic.com/mri.*
The expanded MRI eligibility of the Percept™ PC device supports the most prevalent and fastest-growing MRI modalities.

Estimated North American MRI Systems Market:

1. **Filtered feedthrough technology** mitigates radiofrequency (RF) energy from entering and damaging the device.
2. **Minimal ferrous material** reduces potential for unwanted device and lead movement caused by magnetic pull.
3. **Protection diodes** help prevent failure when exposed to electromagnetic interference.

Ergonomically designed, the Percept™ PC device offers enhanced comfort for patients.

SMALLER* THAN ACTIVA™ PC DEVICE

20%

THINNER** THAN ACTIVA™ PC DEVICE

20%

SLEEK, CURVED DESIGN

*In overall device volume
**Refers to case thickness
The Percept™ PC device is smaller, yet offers improved longevity. This is due to a synergistic combination of a new proprietary battery composition, which allows for higher-energy-density packaging, and efficient low-power electronics.

The smart battery technology allows real-time prediction of remaining battery life*, so you and your patients can maximize available battery capacity and have elevated peace of mind while planning for device replacement.

>5 YEARS BATTERY LIFE**

>15% INCREASE IN PROJECTED LONGEVITY OVER ACTIVA™ PC DEVICE***

*Based on current actual battery level and therapy settings from last seven days
**For median energy use in DBS for patients with Parkinson’s disease, with moderate (up to 2 months per year) BrainSense™ technology usage
***For median energy use in DBS for patients with Parkinson’s disease, with equivalent settings and no BrainSense™ technology usage
The DBS clinician programmer is now even more feature-rich and ready to streamline your programming session with the information you need, quickly and intuitively.

- High-contrast touchscreen interface
- Enhanced task-based workflows
- Intuitive, patient-specific customization options
- Expanded reporting and export functionality

DATA SECURITY
The clinician and patient programmers use multi-layer encryption and proprietary wireless telemetry in a worldwide-licensed frequency band to ensure information is exchanged in a secure, confidential manner.
The DBS patient programmer is enhanced so patients can more easily and conveniently engage with their therapy.

CUSTOM NAMES FOR THERAPY GROUPS
The patient programmer enables patients to easily correlate treatment and everyday activities. You can assign custom names to therapy groups, such as walking, sleeping, and talking, which patients can use to adjust therapy throughout their day as they switch activities.

CUSTOM EVENTS
The patient programmer now integrates elements of a motor diary. You can configure up to four custom events to track digitally. A patient or caregiver can capture such an event using the patient programmer, and you can assess frequency and occurrence of these events during clinic visits.
The Percept™ PC device features our most advanced DBS technologies: proprietary cortex chipset, custom cutting-edge electronics, and embedded software for patented processing and analysis of brain signals.

The state-of-the-art Percept™ PC device is also designed to facilitate expanded capabilities in the future via software upgrades — so you’re prepared for what’s next in DBS.
Brief Statement: Medtronic DBS Therapy for Parkinson’s Disease, Tremor, Dystonia, Obsessive-Compulsive Disorder, and Epilepsy

Medtronic DBS Therapy for Parkinson’s Disease
Medtronic DBS Therapy for Parkinson’s Disease is indicated for adjunctive therapy in reducing some of the symptoms in individuals with levodopa-responsive Parkinson’s disease of at least 4 years’ duration that are not adequately controlled by medications and where the tremor constitutes a significant functional disability.

INDICATIONS:
Medtronic DBS Therapy for Parkinson’s Disease: Bilateral stimulation of the internal globus pallidus (GPi) or the subthalamic nucleus (STN) using Medtronic DBS Therapy is indicated for the suppression of tremor in the upper extremity. The system is intended for use in patients with a neurologist’s judicious evaluation of the patient’s medical condition, response to medications, and need for stimulation, in patients with an increased risk of intracranial hemorrhage. Sources of electromagnetic interference (EMI) may cause device malfunctions, and may result in a loss of therapeutic effect, clinically significant undesirable stimulation effects, additional surgery for system explantation and replacement, or neurological injury.

Patients should avoid activities that may put undue stress on the implanted components of the neurostimulation system. Activities that include sudden, excessive or repetitive bending, twisting, or stretching can cause component fracture or dislodgment that may result in loss of stimulation, intermittent stimulation, stimulation at the fracture site, and additional surgery to replace or reposition the component. Patients should avoid manipulating the implanted system components or bur holes. Postoperative swelling in component damage, lead dislodgment, skin erosion, or stimulation at the implant site. Patients should not dive below 10 meters (33 feet) of water or enter hyperbaric chambers above 2.0 atmospheres absolute (ATA) as this could damage the neurostimulation system, before diving or using a hyperbaric chamber, patients should discuss the effects of high pressure with their clinician. Patients using a recharging neurostimulator for Parkinson’s disease or essential tremor must not place the recharger over a medical device with which it is not compatible (eg, other neurostimulators, pacemaker, defibrillator, insulin pump). The recharger could accidentally charge the operation of the medical device, which could result in a medical emergency. Patients should not use the recharger on an unhealed wound as the recharger system is not sterile and contact with the wound may cause an infection.

Warning For Obsessive-Compulsive Disorder:

ADVERSE EVENTS: Adverse events related to the therapy, device, or procedure can include intracranial hemorrhage, cerebral infarction, CSF leak, pneumocephalus, seizures, surgical site complications (including pain, infection, dehiscence, erosion, seroma, and hematoma), meningitis, encephalitis, brain abscess, aseptic cyst formation, device complications (including lead fracture and device migration) that may require revision or explant, extension fibrosis (tightening or bowstringing), new or exacerbation of neurological symptoms (including vision disorders, speech and swallowing disorders, motor coordination and balance disorders, sensory disturbances, cognitive impairment, and sleep disorders), psychiatric and behavioral disorders (including acute and/or continuing panic attacks or worsening of pre-existing panic attacks or phobias).

For Parkinson’s disease or essential tremor, safety and effectiveness has not been established for patients with neurological other than idiopathic Parkinson’s disease or Essential Tremor, previous surgical ablation procedures, dementia, coagulopathies who are moderate to severe depression, patients who are pregnant, or patients under 18 years. For Essential Tremor, safety and effectiveness has not been established for bilateral stimulation or for patients over 80 years of age. For Dystonia, safety of this device for use in the treatment of dystonia with or without other accompanying conditions (e.g., previous surgical ablation procedure, idiopathic, or systemic) has not been established. Age of implant is suggested to be at that which brain growth is approximately 90% complete or above. For Epilepsy, the safety and effectiveness of this therapy has not been established for patients with partial-onset seizures, patients who are pregnant or nursing, patients under the age of 18 years, patients with coagulopathies, and patients older than 65 years. For Obsessive-Compulsive Disorder, the safety and probable benefit of this therapy has not been established for patients with comorbid depression other than bipolar I disorder, dementia, coagulopathies who are or who are on anticoagulant therapy, neurological disorders, and other serious medical illness including cardiovascular disease, renal or hepatic failure, and diabetes mellitus. In addition, the safety and probable benefit has not been established for patients with OCD who have a diagnosis of Tourette’s syndrome, previous surgical ablation (e.g., capsulotomy), score is less than 30, who have not completed a minimum of 3 adequate trials of first and/or second line medications with augmentation, who have not attempted to complete an adequate trial of cognitive behavior therapy (CBT), who are pregnant, who are under the age of 18 years, and who do not have comorbid depression and anxiety. Patients should carefully consider the potential risks of implanting the Reclaim DBS System in patients with comorbid psychiatric disorders (e.g., bipolar, body dysmorphic, psychotic) and the Reclaim DBS System may aggravate the symptoms.

*Humanitarian Device: The effectiveness of these devices for the treatment of dystonia and obsessive-compulsive disorder has not been demonstrated.

USA Rx only Rev 02/20
LEARN MORE ABOUT PERCEPT™ PC NEUROSTIMULATOR WITH BRAINSENSE™ TECHNOLOGY AT MEDTRONIC.COM/PERCEPT