

VERCISE™ DIRECTIONAL
DEEP BRAIN STIMULATION SYSTEMS*

Boston
Scientific
Advancing science for life™

VERCISE GENUS™ DEEP BRAIN STIMULATION SYSTEM:

Control Made Clear



*A system that includes Vercise Genus P16 or Vercise Genus R16 and the Vercise Cartesia™ Directional Leads form the Vercise Directional Systems

VERCISE GENUS™ DBS SYSTEM: CONTROL MADE CLEAR

The Vercise Genus DBS System is the latest device in a long line of meaningful innovations from Boston Scientific. Combining Multiple Independent Current Control (MICC), unique directional capabilities, and integrated visualization of patient anatomy, the Vercise Genus DBS system offers unprecedented control for improved patient outcomes.



PRECISION MADE PERSONAL

Every brain is unique. So we created a DBS system that's uniquely customizable for every patient. Our suite of MRI-conditional rechargeable and non-rechargeable IPGs offers precise stimulation today and flexibility for the future.



34.9 cc

VERCISE GENUS™ P16

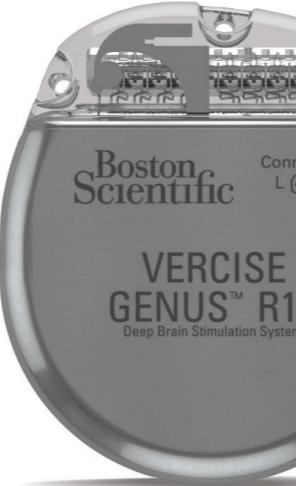
Thinnest non-rechargeable battery available¹

Contoured for comfort

MRI conditional^{**}

Bluetooth connectivity

Cartesia™ 3D enabled



20.1 cc

VERCISE GENUS™ R16

Rechargeable battery designed to last at least 25 years, with no hard shutoff

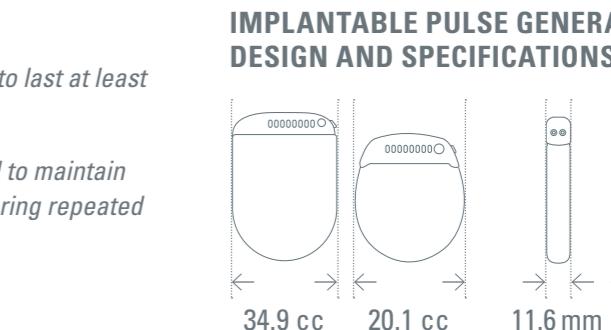
Zero Volt™ Technology, designed to maintain capacity and resist corrosion during repeated charging cycles

MRI conditional

Bluetooth connectivity

Thinnest DBS stimulator available¹

Cartesia 3D enabled



IMPLANTABLE PULSE GENERATOR DESIGN AND SPECIFICATIONS

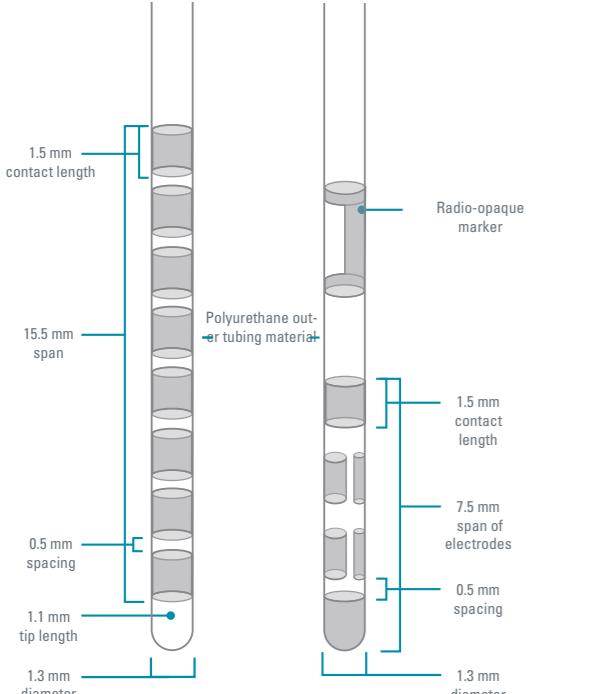
1. Medtronic Percept™ PC Neurostimulator with BrainSense™ Technology, Manual B35200. AUG2020, St. Jude Medical Infinity™ Implantable Pulse Generator Models 6660, 6661, 6662, 6663. Clinician's Manual AUG2020
**MRI Conditional under specified conditions.

VERCISE™ FAMILY OF LEADS AND EXTENSIONS

Boston Scientific provides many implantable products and accessories designed to work with the Vercise Genus™ DBS System. Innovative leads and extensions are designed for durability and precise control of therapy.

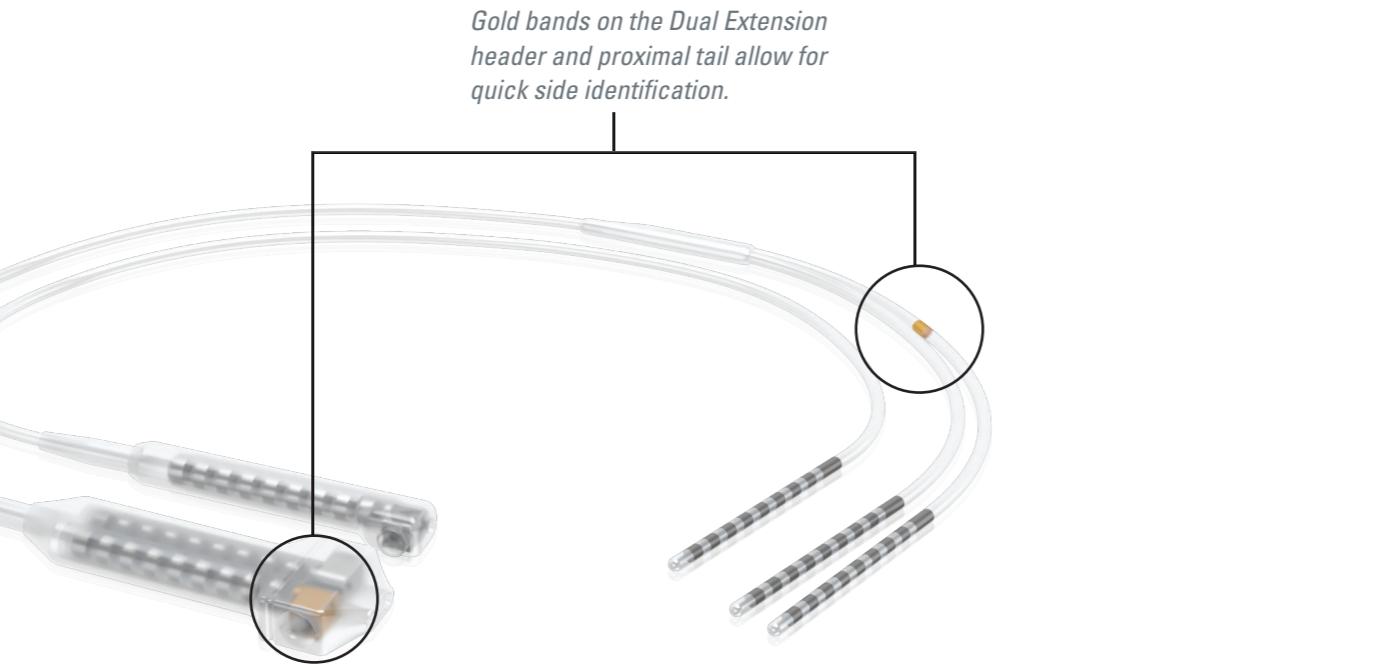
LEAD DESIGN AND SPECIFICATIONS

Our two unique lead options are compatible with the Vercise Genus DBS System.



Vercise Standard Lead
Provides the best of both
span and spacing

Vercise Cartesia™ Directional Lead
Provides multi-directional
stimulation for greater precision
with fewer side effects



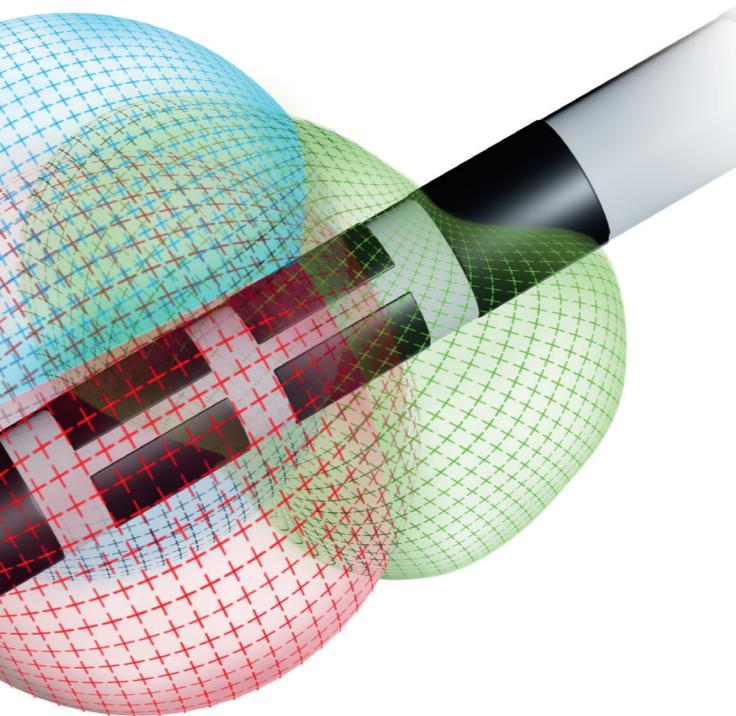
VERCISE DUAL EXTENSION

Simplify your surgical workflow with the Vercise™ Dual Extension. Designed for convenience and patient comfort, this extension offers a 50% thinner body diameter and comes in two lengths: 55 cm for pectoral IPG placement or 95 cm for abdominal IPG placement.*

*When compared to two Vercise 1x8 contact lead extensions

DYNAMIC BY DESIGN WITH CARTESIA™ 3D

Cartesia 3D is the suite of directional programming capabilities offered by the Vercise™ Directional DBS Systems. These capabilities allow for stimulation in every direction around the lead, providing nearly limitless options to manage a patient's therapy needs.



RELIABLE

Exclusively available through Cartesia 3D, Ring Mode is designed to offer reliable stimulation while avoiding the unwanted effects of impedance variability.



PRECISE

Stimulation is no longer limited to physical electrodes. Using Virtual Contact, you can precisely define the size, shape, position, and direction of stimulation.



ADAPTABLE

Multi-Polar Mode and other modern stimulation capabilities give you the flexibility to manage more challenging patients and adapt to future therapy needs.

SIMPLY INTUITIVE

Vercise Genus™ features an intelligent interface to help simplify programming using Neural Navigator 4 software. Intuitive programming and integrated visualization gives you the power to apply precision with ease.

VERCISE™ NEURAL NAVIGATOR 4 PROGRAMMING SOFTWARE

INTUITIVE CONTROLS

Intuitive stimulation controls are designed to simplify directional DBS programming and therapy personalization.



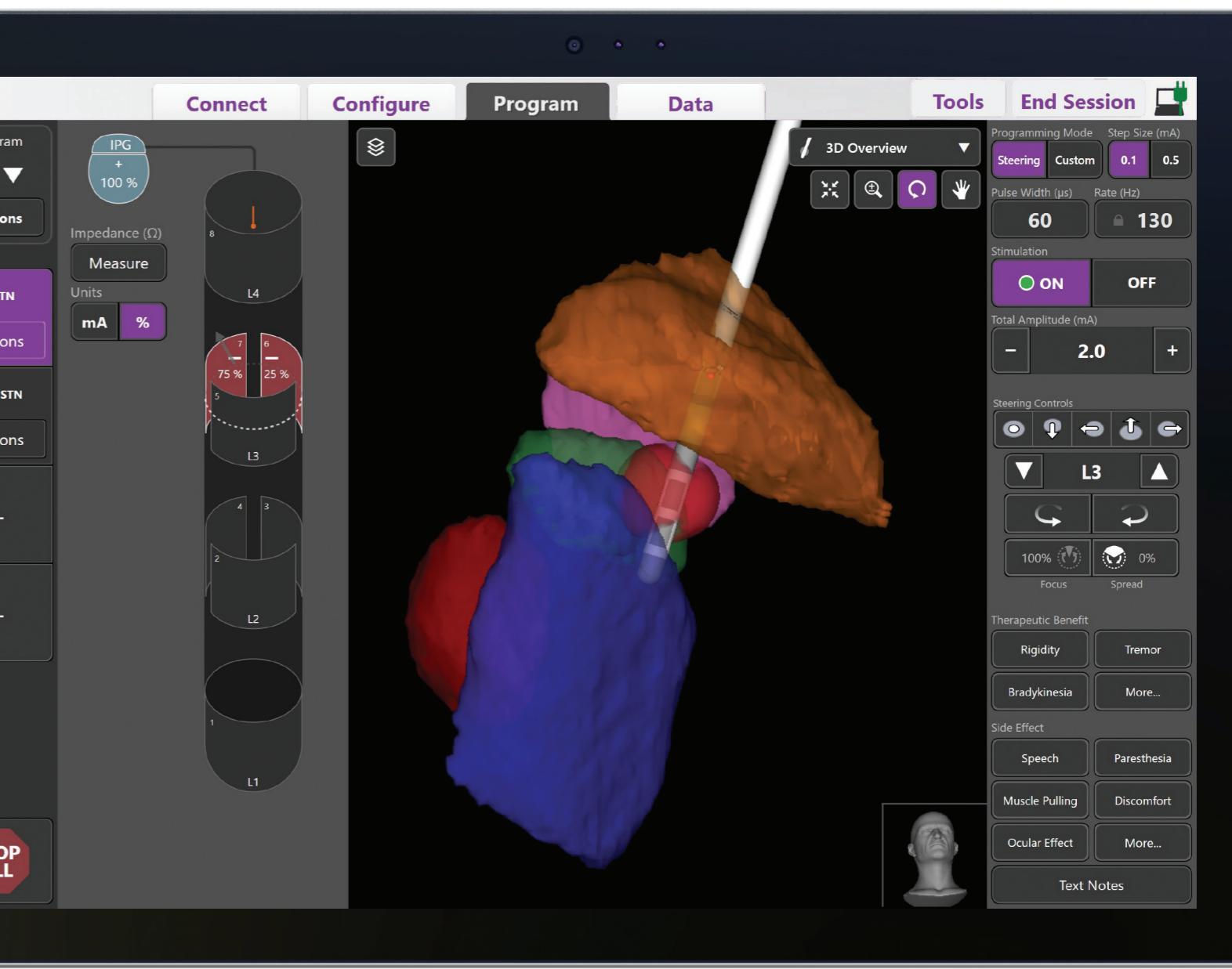
INTEGRATED SOFTWARE

Interface seamlessly integrates directional stimulation and Cartesia™ 3D.



CLEAR GUIDANCE

Reference head allows for quick and simple orientation of patient anatomy and stimulation.

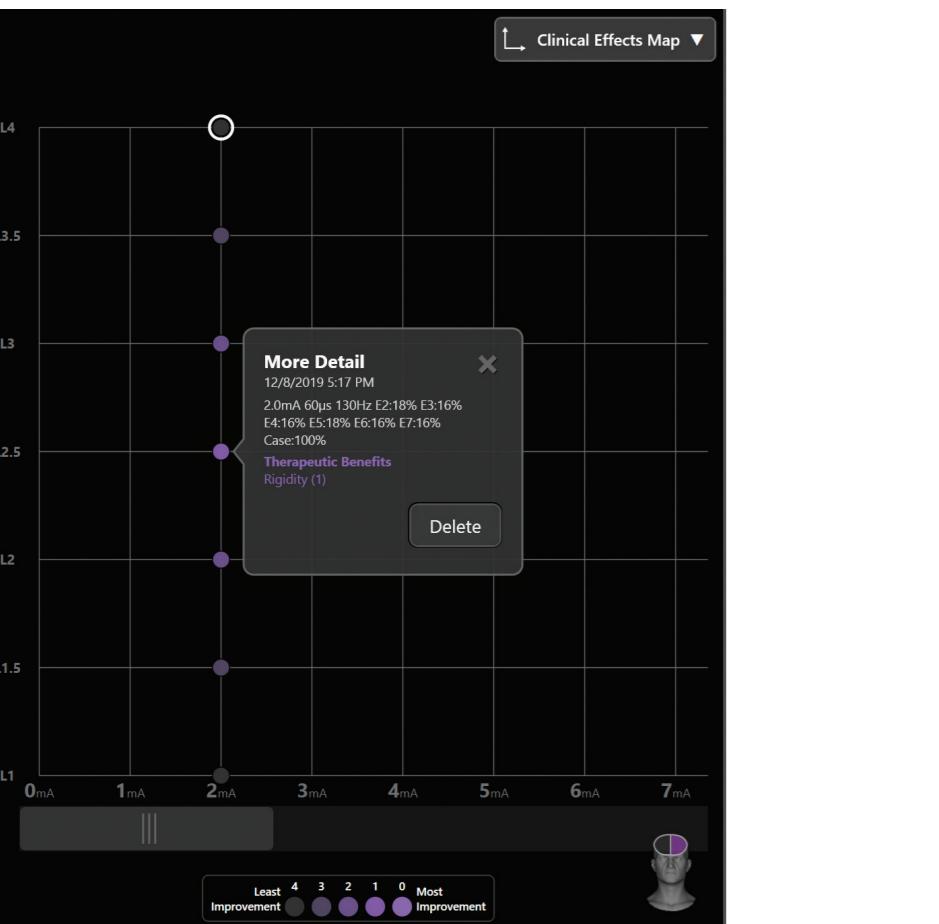


INTEGRATED VISUALIZATION WITH STIMVIEW XT™

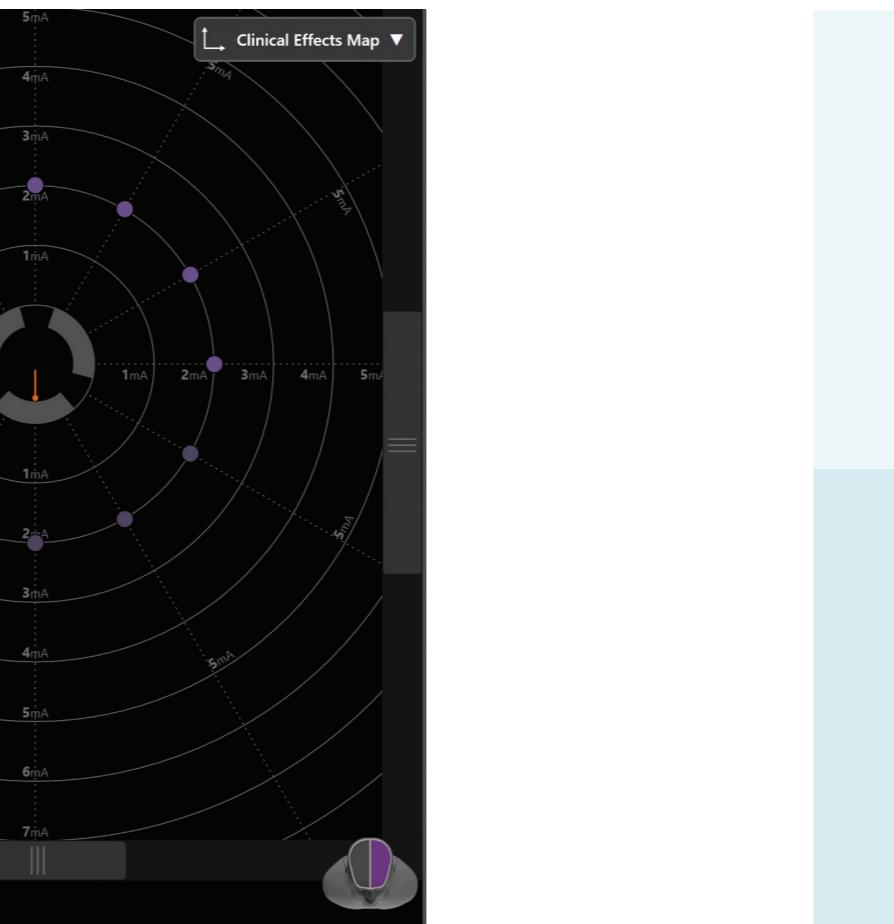
STIMVIEW XT is the first and only DBS visualization software that provides the ability to see implanted leads and stimulation field models (SFMs) in the patient's own segmented anatomy. With the help of STIMVIEW XT visualization, you can close the gap between surgery and programming, enhancing DBS workflow and maximizing programming efficiency.

CLINICAL EFFECTS MAP

Our Clinical Effects Map (CEM) seamlessly annotates a patient's response to stimulation, ensuring that valuable clinical data is preserved on the IPG. Now you can view detailed clinical notes about benefits and side effects directly on the programming screen. The CEM also includes a rating scale that mimics UPDRS.



The axial view of the Clinical Effects Map displays patient response to ring stimulation.



The directional Clinical Effects Map displays patient response to directional stimulation at a given level.

EVIDENCE BASED PROGRAMMING WITH VERCISE™ DBS SYSTEMS

11/12

Patients were found to have the best programming settings when utilizing a virtual contact².

6 HRS

Average increase in patients' "on-time" without troublesome dyskinésias at one-year follow-up. These patients also showed a 51% improvement in UPDRS III scores⁴.

65%

65%

Greater therapeutic window enabled by Cartesia™ 3D and low pulse width settings³.

ANODIC

Vercise DBS offers unique anodic stimulation capabilities which are demonstrated to improve efficacy and side effect threshold⁵.

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2. Steigerwald et al. (2018). "DIRECT DBS: A Prospective, Randomized, Multicenter, Double-Blinded Study on Directional DBS – Effects on Therapeutic Window." Presented at ESSFN

3. Steigerwald, F. et al. "Pulse duration settings in subthalamic stimulation for Parkinson's disease." Movement Disorders, 2018 Jan, 33(1) 165-169.

4. Vitek JL, Jain R, Chen L, et al. Subthalamic nucleus deep brain stimulation with a multiple independent constant current-controlled device in Parkinson's disease (INTREPID): a multicentre, double-blind, randomised, sham-controlled study. Lancet Neurol. 2020;19(6):491-501. doi:10.1016/S1474-4422(20)30108-3

5. Kirsch, et al. " Anodic versus cathodic neurostimulation of the subthalamic nucleus: A randomized-controlled study of acute clinical effects". 10.1016/j.parkreldis.2018.05.015 Parkinsonism & Related Disorders

CONVENIENCE MEETS COMFORT

The Vercise Genus™ DBS system's small, thin IPGs are now equipped with Bluetooth connectivity to provide enhanced communication and ease of use.

Additionally, the rechargeable battery offers a 25-year lifespan to lessen the risk of repeat surgeries.

Wireless remote, intuitive controls and a broad telemetry range simplify the patient experience.



The Vercise™ charging system is completely wireless, and many patients find that charging can be completed in as little as one hour a week⁶.

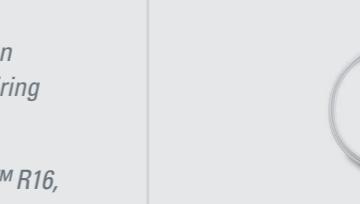
6. Yu et al. (2013). "Characterizing Rechargeable IPG Charge Cycle Time in DBS." NANS 2013 Poster.

CONNECT TO MEANINGFUL INNOVATION

The M8 and B26 Adapters provide access to the simply advanced stimulation capabilities of the Vercise Genus™ IPGs by connecting to existing Medtronic wiring during a battery replacement procedure.

- Reduce the potential number of replacement surgeries with Vercise Genus™ R16, a rechargeable battery designed to last at least 25 years.
- Upgrade to the system designed to boost traditional DBS therapy with access to MICC and advanced programming flexibility.
- The infection rate for patients undergoing battery replacement surgery is three times higher than it is for patients undergoing a primary procedure⁷.

M8 Adapter: If patients are looking to switch to a Boston Scientific Stimulator from a Medtronic battery, the M8 Adapter conversion system allows them to keep their wiring in place without undergoing lead revision surgery***.



5X

One Vercise Genus IPG lasts as long as five of the competitor's⁸.

7. Pepper et al., 2013. The Risk of Hardware Infection in Deep Brain Stimulation Surgery Is Greater at Impulse Generator Replacement than at the Primary Procedure. Stereotactic and Functional Neurosurgery 91:1, 56-65.

*** Refer to the M8 DFU for specific Medtronic leads and extensions compatibility.

8. Fisher et al. (2018) "Battery Longevity Comparison of Two Commonly Available Dual Channel Implantable Pulse Generators Used for Subthalamic Nucleus Stimulation in Parkinson's Disease." Stereotact Funct Neurosurg. 96: 151-156.

VERCISE™ DIRECTIONAL DEEP BRAIN STIMULATION SYSTEMS



The Vercise Genus™ DBS System and Vercise DBS Lead-only system before Stimulator is implanted provide safe access to full-body MRI scans when used with specific components and the patient is exposed to the MRI environment under specific conditions defined in the supplemental manual ImageReady™ MRI Guidelines for Boston Scientific DBS Systems.

Results from clinical studies are not predictive of results in other studies. Results in other studies may vary.

The Vercise™ M8 Adapter is a 1 x 8 in-line connector that is designed to connect specific Medtronic® lead extensions to the Boston Scientific DBS System Stimulator, as part of a deep brain stimulation procedure. The Boston Scientific Vercise M8 Adapter is compatible with the following Medtronic Leads: Model 3387 Lead, Model 3389 Lead. The Boston Scientific Vercise M8 Adapter is compatible with the following Medtronic lead extensions Model 3708640 Extension, Model 3708660 Extension, Model 3708695 Extension, Model 3708540, Model 3708560, Model 3708595 Extension.

CAUTION: The law restricts this device to sale by or on the order of a physician. Indications, contraindications, warnings, and instructions for use can be found in the product labeling supplied with the device. Information for use only in countries with applicable health authority registrations. Material not intended for use in France. All rights reserved.

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