

Medtronic

Medtronic DBS

Adapting to you

Deep brain stimulation (DBS) therapy



The only DBS system powered by BrainSense™ technology that enables clinicians to personalise and adapt therapy to your individual needs.

Medtronic deep brain stimulation (DBS)

There's a reason Medtronic has the most implanted deep brain stimulation (DBS) systems in the world.¹

As the originator and world leader in DBS for over 30 years, we have helped over 180,000¹ people with our innovative and life-changing therapy.

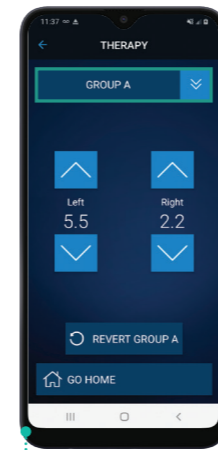
Driven by our passion to deliver the best outcomes, we are continuously advancing to develop breakthrough innovation that adapts to the evolving needs of patients.

Medtronic is your dedicated and proven partner to support you through your DBS journey.

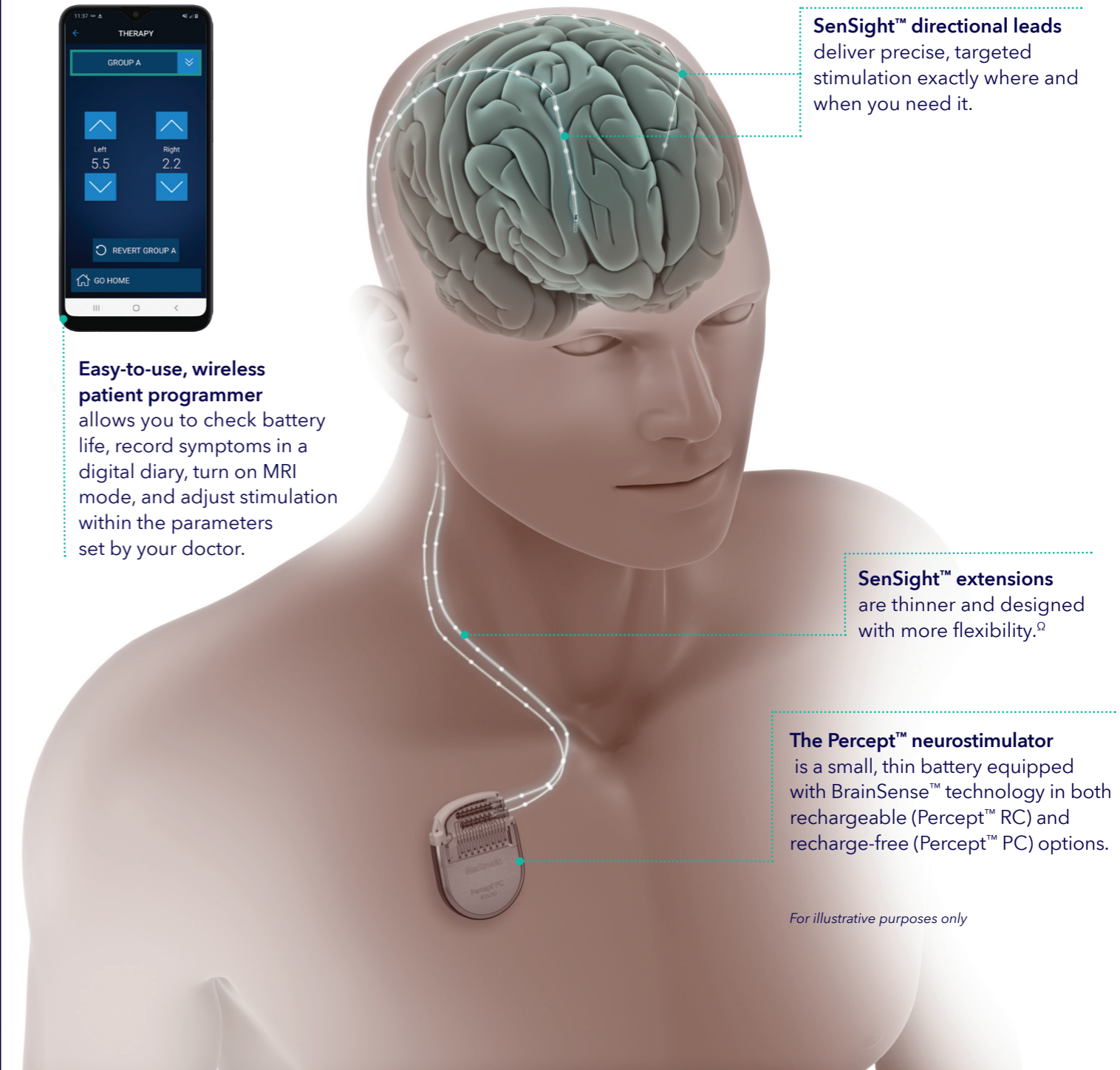
Medtronic DBS therapy is approved for five indications: Parkinson's disease, essential tremor, dystonia, and epilepsy. Indications vary by product. Refer to product labeling for details.

Percept™ family with BrainSense™ technology†

Medtronic has engineered the most advanced DBS system that is adaptable to your individual needs. The Percept™ family is the only DBS system available with BrainSense™ technology to provide a more complete picture of your day-to-day brain activities so your clinician can adapt your stimulation and personalise your therapy.



Easy-to-use, wireless patient programmer allows you to check battery life, record symptoms in a digital diary, turn on MRI mode, and adjust stimulation within the parameters set by your doctor.



SenSight™ directional leads deliver precise, targeted stimulation exactly where and when you need it.

SenSight™ extensions are thinner and designed with more flexibility.^Ω

The Percept™ neurostimulator is a small, thin battery equipped with BrainSense™ technology in both rechargeable (Percept™ RC) and recharge-free (Percept™ PC) options.

For illustrative purposes only

†The sensing feature of the Percept™ PC system and Percept™ RC system is intended for use in patients receiving DBS where chronically recorded bioelectric data may provide useful, objective information regarding patient clinical status. The majority of patients with Parkinson's disease have an identifiable signal. Signal may not be present or measurable in patients treated for essential tremor, dystonia, or epilepsy.
 ΩSenSight™ extensions are approximately 26.7% smaller in diameter (excluding the distal connector end) and have a 64% reduction in the force required to elongate when compared to Medtronic 37085 and 37086 extensions.

Designed to meet your needs today and tomorrow

Personalised therapy

Only the Medtronic DBS Percept™ family utilises BrainSense™ technology to capture and record real-time brain signals related to your symptoms. This sensing capability allows your clinician to see your brain activities at the exact time you are experiencing symptoms (even when symptoms occur outside of an office visit). As a result, your stimulation can be personalised and adapted by your clinician to optimise therapy and minimise side effects.

Comfortable

The Percept™ neurostimulators are designed to have a low profile under your skin for your comfort and for minimal visibility of the implanted device.

Unlike other DBS systems,² the Percept™ neurostimulators are compatible with 3T and 1.5T MRI scans for when you need high-quality imaging. For your comfort, Medtronic DBS stimulation can also remain on while you're getting an MRI (under certain conditions).[†]

Ready for future advancements

The Medtronic DBS Percept™ family is designed to facilitate expanded capabilities with software updates. This means you won't need to replace your Percept™ neurostimulator to upgrade your device when software advancements become available.

[†]Medtronic DBS systems are MR Conditional which means they are safe for MRI scans only under certain conditions. If the conditions are not met, the MRI could cause tissue heating especially at the implanted lead(s) in the brain which may result in serious and permanent injury or death. Before having an MRI, always talk with the doctor who manages your DBS therapy to determine your eligibility and discuss potential benefits and risks of MRI. For further information, please call Medtronic at +44 (0) 1923 205101.

The Percept™ family provides **options** to meet your needs



Percept™ PC neurostimulator



Actual size

| Recharge-free |

Designed for

People who are looking for all the benefits of the Percept™ family without the need to periodically recharge their neurostimulator.

Size

Features a thinner,[†] curved design.

Battery life

Experience a low maintenance battery with an expected 5 years of service life[‡] without ever having to recharge.

Charging

With the PC option, the neurostimulator does not require recharging.

Percept™ RC neurostimulator



Actual size

| Rechargeable |

Designed for

People who are looking for all the benefits of the Percept™ family with a long-lasting battery, and don't mind periodically recharging their neurostimulator.

Size

Features the smallest and thinnest rechargeable neurostimulator available.[§]

Battery life

Count on at least 15 years of service life with consistent stimulation and fast recharge performance. Medtronic patented battery technology has less battery fade than other rechargeable devices for a more reliable, long-lasting battery.[¶]

Charging

Experience rapid recharging from 10% to 90% full charge in less than 1 hour.^{††} The typical number of days before needing to recharge can be up to 9 to 12 days.^{‡‡} If charging daily, recharging can take as little as 15 minutes.^{§§} Greater than 99% capacity at 15 years with weekly recharge.

[†]Percept™ PC is 20% smaller in overall device volume as compared to Activa™ PC and 20% thinner in case thickness as compared to Activa™ PC.
[‡]For median energy use in DBS for PD patients, with moderate (up to 2 months per year) BrainSense™ technology usage.

[§]Percept™ RC is over 30% smaller than the Boston Scientific Vercise Genus™ R16. As compared to Boston Scientific Vercise Genus™ R16 and Vercise Genus™ P16, MP92328632-05 REV-A. As compared to St Jude Medical Infinity™* 5/7 IPG, ARTEN600150429 - B.
[¶]The Boston Scientific Vercise Genus™ R16 has a variable 5-15 years of service life, depending on the stimulation settings and conditions (Vercise™ Deep Brain Stimulation Systems Information for Prescribers MP92366224-01 Rev G, accessed August 22, 2023)
^{††}For implant depths of up to 2 cm under normal conditions.
^{‡‡}50th percentile usage will typically have 12 days between required recharges and 80th percentile usage is expected to have 9 days between required recharges (100% to 0%) with sensing OFF.
^{§§}With sensing ON at 80th percentile therapy settings for implant depth of 1 cm.

Ask for Medtronic DBS – the only system powered by BrainSense™ technology that enables clinicians to personalise and adapt therapy to your individual needs.

Visit [medtronic.co.uk/dbs](https://www.medtronic.co.uk/dbs) to learn more.

References

1. Model to calculate Medtronic DBS implants worldwide, Medtronic Internal Memo, September 5 2023.
2. Abbott and Boston Scientific DBS systems are 1.5T MR conditional and stimulation cannot remain on during a MRI scan. Vercise Genus™* Deep Brain Stimulation System Indications, Safety and Warnings, accessed August 24, 2023. Abbott MRI Support DBS Full Systems, accessed August 24, 2023.

Disclaimer:

Information contained herein does not replace the recommendations of your healthcare professional. See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your Health Care Professional.

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