

What is BrainSense™ Adaptive DBS (aDBS)?

How it works



Listening to your brain

Your implanted device gently listens to your brain's natural signals. In Parkinson's, certain brainwaves, called beta waves, can become too strong and are linked to symptoms like tremor, slowness and stiffness.¹



Spotting when help is needed

When the device notices these signals getting too intense, it knows your brain may need extra support.



Adjusting automatically

The system responds by adjusting the stimulation it gives: more when it is needed because you have troublesome symptoms, and less when your symptoms are well controlled or you are dyskinetic. This helps smooth out symptoms and reduce fluctuations.²



References

1. Neumann WJ, Degen K, Schneider GH, et al. Subthalamic synchronized oscillatory activity correlates with motor impairment in patients with Parkinson's disease. *Mov Disord.* 2016;31(11):1748-1751.
2. Oehm CR, Cerner S, Hammer LH, et al. "Chronic adaptive deep brain stimulation is superior to conventional stimulation in Parkinson's disease: a blinded randomized feasibility trial." *Nature Medicine* August 19, 2024. DOI: 10.1038/s41591-024-03196-z.
3. Bronte-Stewart HM, Beudel M, Ostrem JL, et al. Long-Term Personalized Adaptive Deep Brain Stimulation in Parkinson Disease: A Nonrandomized Clinical Trial. *JAMA Neurol.* Published online September 22, 2025. doi:10.1001/jamaneurol.2025.2781.
4. ADAPT-PD 056-F277, Rev C Clinical Study Report, p14 and Table 11-72, p222.

Brief statement

Information contained herein is not medical advice and should not be used as an alternative to speaking with your doctor. Discuss indications, contraindications, warnings, precautions, adverse events and any further information with your health care professional. Please note that the intended use of a product may vary depending on geographical approvals. Medtronic products placed on European markets comply with EU and UK legislation (if applicable) on medical devices.

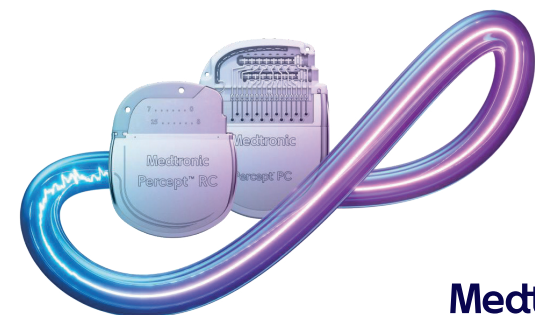
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Introducing adaptive deep brain stimulation (aDBS)

Adaptive DBS is a new advancement in deep brain stimulation (DBS) therapy for Parkinson's disease.



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Feel better for more of your day.

In a clinical study, when compared to traditional DBS, BrainSense™ Adaptive DBS gave people living with Parkinson's disease:

More "On" time with improved control of tremor, slowness, and stiffness.³



85%

of waking hours with good "On" time

55%

reduced "Off" time

aDBS has been
proven
to be safe and effective

INNER - FRONT

Talk to your doctor to determine if BrainSense™ Adaptive DBS is right for you.



Scan the QR code to learn more about DBS Therapy for Parkinson's disease.

To find a centre near you, contact our DBS Helpline: +44 (0)1923 205101

Already using Percept™ DBS system?

Ask your doctor about activating adaptive DBS.

Considering DBS?

Ensure your care team selects the Percept™ DBS system.

Only Percept™ devices offer the option to activate aDBS later, if required.

What did BrainSense™ Adaptive DBS users say about their experience?

98%

preferred BrainSense™ Adaptive DBS over traditional DBS after using for 30 days³

80%

would recommend BrainSense™ Adaptive DBS to other DBS patients with Parkinson's after long-term use⁴

84%

were satisfied with BrainSense™ Adaptive DBS after long-term use⁴



INNER - FOLD-IN