

DBS THERAPY
FOR
PARKINSON'S

GETTING
BACK
TO YOU

Medtronic
Further, Together

GET CONNECTED

We're here to help you get the information you need to make a confident decision about DBS.



For more information about DBS and Medtronic, please visit our website.

[MEDTRONIC.COM/PD](https://www.MEDTRONIC.COM/PD)



For news, updates, and events, follow the Medtronic Parkinson's Facebook page.

[FACEBOOK.COM/MEDTRONICPARKINSONS](https://www.FACEBOOK.COM/MEDTRONICPARKINSONS)



Watch patient stories and videos about DBS Therapy on our YouTube page.

[YOUTUBE.COM/MEDTRONICDBSTHERAPY](https://www.YOUTUBE.COM/MEDTRONICDBSTHERAPY)

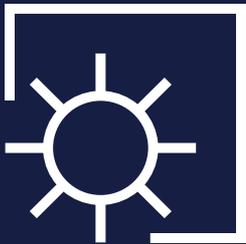


GETTING
BACK TO
**MAKING THE
MOST OF
YOUR DAY**

"I don't have to time my hikes. I don't have to time my games. I don't have to time my meals. I can do pretty much whatever I want whenever I want. Yes, I still have a bit of an 'off' period but it's—but it's not very bad."

Brian
Receiving DBS Therapy

EXPLORE MORE PATIENT STORIES AT
[MEDTRONIC.COM/PDSTORIES](https://www.MEDTRONIC.COM/PDSTORIES)



DBS MOVES YOU **FORWARD WHEN** PARKINSON'S IS HOLDING YOU BACK

Living well with Parkinson's means being able to do what's important to you — taking care of yourself, having lunch with friends, continuing to work or volunteer, enjoying your favorite activity. The right treatment may control your symptoms so you can live life your way.

Deep brain stimulation (DBS) may help control the movement symptoms of Parkinson's disease, including tremor (shaking), slowed movement (bradykinesia), and stiffness (rigidity), so you can *Get Back to You*.

The quotes in this brochure recount the experiences of individuals who are receiving Medtronic DBS Therapy for Parkinson's disease. Not everyone who receives Medtronic DBS Therapy will experience the same results. Some people may experience significant symptom relief from DBS Therapy, and others may experience minimal relief. Talk to your doctor to see if Medtronic DBS Therapy is right for you.



Actual patients not pictured

GETTING BACK TO **COFFEE DATES**

"We are so grateful for each other and the new lease on life DBS Therapy gave us."

Karen and Jim
Both receiving DBS Therapy

READ KAREN AND JIM'S FULL STORY AT
[MEDTRONIC.COM/PDSTORIES](https://www.medtronic.com/pdstories)



A 24-HOUR THERAPY THAT FITS YOUR LIFESTYLE

DBS helps control some of your movement symptoms when your medications aren't working as well as they used to. For many people with Parkinson's, DBS makes a difference when even small tasks have become challenging. DBS has helped some people stay as independent as possible and keep doing the activities they love.

Compared to medications alone, DBS provides additional hours of good movement control each day.¹ Good movement control makes it easier to do everyday things like writing, bathing and dressing, and drinking and eating.

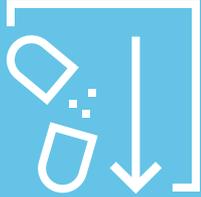
At this point, you may be scheduling activities for the time during the day when the medications tend to be working better. With DBS, some people have been able to get back to planning their lives around what they want to do, rather than around their medications.



DBS uses a small, pacemaker-like device, placed under the skin of the chest, to send electronic signals through very thin wires (leads) to an area in the brain that controls movement. To give you relief, these signals block some of the brain messages that cause the movement symptoms of Parkinson's.

SEE THE DIFFERENCE DBS CAN
MAKE — WATCH THE VIDEOS AT
[MEDTRONIC.COM/PDDemo](https://www.medtronic.com/pddemo)

THE BENEFITS OF DBS THERAPY



LESS MEDICATION, MORE RELIEF

Medtronic DBS Therapy may reduce Parkinson's medication.¹ This may reduce medication-related side effects like unintended movements (dyskinesia). Less medication may also simplify your medication routine, with fewer pills or less frequent doses.

A BETTER START TO YOUR DAY

DBS delivers therapy 24 hours a day — it doesn't wear off while you sleep. It's already working the moment you wake up.

A THERAPY THAT FITS YOUR DAILY LIFESTYLE

Unlike some other therapies used to treat Parkinson's symptoms, the DBS system requires no daily cleaning or refilling; you can bathe and shower without worrying about your device.

ADDITIONAL HOURS OF GOOD MOVEMENT CONTROL^{1,2}

DBS Therapy provides additional hours of good movement control ("on" time) without unintended movements (dyskinesia) each day compared to medication alone.

ENJOY A BETTER QUALITY OF LIFE

With DBS Therapy, some people have been able to continue the everyday things that are important to them — things like dressing and bathing, brushing their teeth, and putting on makeup. In fact, when combined with medication, people with DBS therapy experience improved quality of life, compared to those taking medication alone.¹

KEEP YOUR OPTIONS OPEN

Unlike some surgeries for Parkinson's, deep brain stimulation is reversible. The system can be turned off or removed, in most cases, and won't limit your future treatment options.

FOR MORE ON DBS, VISIT
[MEDTRONIC.COM/PD](https://www.medtronic.com/pd)



SYMPTOMS DBS TREATS

While some people believe deep brain stimulation treats **tremor (shaking)** only, DBS also treats other movement symptoms of Parkinson's disease, including **slowed movement (bradykinesia)** and **stiffness (rigidity)**.

Symptom control may help you continue to do what's important to you, like taking care of family, continuing to work, or participating more fully in an event like a vacation or a family wedding.

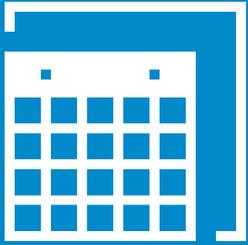


GETTING BACK TO THE FARM

"When you think you're down for the count, and you get your life back, it's indescribable. It's a second chance. Every day is precious."

Gary
Receiving DBS Therapy

WATCH GARY'S FULL STORY AT
[MEDTRONIC.COM/PDSTORIES](https://www.medtronic.com/pdstories)



WHEN IS THE RIGHT TIME FOR DBS?

Research shows that DBS may be appropriate for people who have had Parkinson's for at least 4 years with at least 4 months of movement symptoms not well controlled by medications or medication side effects such as unintended movements (dyskinesia).¹

DBS Therapy is also appropriate for people who have had movement symptoms for a longer period of time, and there is no upper age limit.²

If you wait until your medications no longer help, DBS will no longer be an option — so don't think of DBS as "a last resort." Instead of just putting DBS off until someday in the future, talk with your doctor about it now. That way, you will be ready to start at the right time.

WHY WAIT TO GET BACK TO YOU? YOU MAY BE ELIGIBLE FOR DBS IF YOU MEET THESE CRITERIA:



Parkinson's diagnosis for at least **4 years**



Movement symptoms or medication side effects for a **minimum of 4 months** or longer-standing



Responds to Levodopa
(a common Parkinson's medication)



Movement symptoms **not** adequately controlled with medication

Only your doctor can determine if DBS therapy is right for you.

AFTER COMPLETING THE 3-DAY TRACKER ANSWER THE FOLLOWING QUESTIONS



1 How troublesome are your "off" periods (periods when medication is not helping enough and you are experiencing symptoms)?

Circle the option that applies.

- | | | | |
|---------------------------|--|-------------------------------------|-------------------------------------|
| I barely notice I'm "off" | I have difficulty, but I can do all I want to do | I can't do some things I want to do | I can't do most things I want to do |
|---------------------------|--|-------------------------------------|-------------------------------------|

2 How troublesome is your dyskinesia (involuntary excessive movements)?

Circle the option that applies.

- | | | | |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| I don't have any | I barely notice them, but others do | They interfere with some activities | They interfere with most activities |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|

3 What are your most troublesome movement symptoms?

4 What are your most troublesome side effects?

Circle all that apply.

- | | | |
|-----------------------------------|-------------------------------|--------------------------------|
| Sleepiness | Nausea | Hallucinations |
| Confusion/other thinking problems | Lightheadedness upon standing | Behavioral/personality changes |

Other:

INSTRUCTIONS FOR COMPLETING YOUR SYMPTOM TRACKER

	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM
		X					
Dyskinesia				X			
Out dyskinesia					X	X	
		X					
ry®, Sinemet® dopa (100 mg)							
pone (mg)							



SYMPTOM TRACKER

You can help your doctor make good treatment decisions by tracking your symptoms. A well-kept Symptom Tracker provides a clear picture of when you are taking your medications, when you are feeling well, and when you are not feeling so well. The tracker will help your doctor determine if DBS Therapy may be right for you.

SYMPTOM CONTROL CATEGORIES

You will be recording your symptom control every hour in one of four categories:

- Asleep**
- "On" Time with unintended movements (dyskinesia)**
Periods of time when medication is giving you good symptom control but is causing troublesome, involuntary, excessive movements.
- "On" Time without troublesome unintended movements (dyskinesia)**
Periods of time when medication is giving you good motor control.
- "Off" Time**
Periods of time when medication is not helping enough and you are experiencing troublesome symptoms like tremor (shaking), stiffness (rigidity), or slowed movement (bradykinesia).

BEFORE YOU START

Next to the name of the drugs listed, write the strength of the pills you take (in mg). Look at the container label if necessary. Use "other" row for Parkinson's drugs not listed.

EVERY HOUR

- Mark with an "X" the row that best describes your overall motor control (see sample).
- When you take medications, write how many pills you took (see sample).
- In the notes section at the bottom of each day, write any troublesome side effects you experience.

← OPEN HERE

Medtronic

SUMMARY FOR HEALTHCARE PROFESSIONAL USE ONLY



- | | | |
|---|-------|-------|
| Idiopathic Parkinson's disease? | YES | NO |
| Years since diagnosis: | _____ | years |
| At least 4 months since onset of motor complications not adequately controlled with medication? | YES | NO |
| Good levodopa response (even if brief)? | YES | NO |
| Recommend Medtronic DBS Therapy evaluation? | YES | NO |

Circle the option that applies.

Referring physician name: _____

Signature: _____

Referring physician phone number: _____

Movement Disorder Center/Practice name: _____

Medtronic DBS Therapy Center fax: _____

Center physician: _____

Scheduling phone number: _____

Patient name: _____

Patient phone number: _____

NOTE TO HEALTHCARE PROFESSIONAL:

You can photocopy and fax this and the patient questionnaire to a DBS Center of your choice, as well as ask your patient to take the Symptom Tracker to the evaluation at the DBS Center.

WHY CHOOSE MEDTRONIC?



Actual patient not pictured

GETTING BACK TO INDEPENDENCE

"Before DBS Therapy, I couldn't tie my shoes, button my shirts, or tie my own tie. After the therapy, I could do all of those things myself."

Jerry
Receiving DBS Therapy

WATCH JERRY'S FULL STORY AT
MEDTRONICDBS.COM/STORIES



OUR SUPPORT, TECHNOLOGY, AND EXPERIENCE — ALL FOR YOU

Medtronic is a global leader in medical technology, services, and solutions — serving millions of people around the world every day. Your Medtronic DBS will be backed by our decades of research, innovation, and experience. Our technology is designed to meet your needs now and into the future.

We provide you with unparalleled resources and one-on-one support while you are deciding whether DBS is right for you. We are committed to making sure you have the information and support you need to decide whether Medtronic DBS Therapy is right for you.



LEADING THE WAY IN DBS

Deep brain stimulation development started in 1987 and Medtronic has been the leader in the field ever since. The Medtronic DBS Therapy system has been rigorously tested with clinical evidence and is FDA approved for people with Parkinson's who had recent onset of movement symptoms as well as those with longer-standing movement symptoms.



ACCESS TO MRI SCANS ANYWHERE ON THE BODY

We know it's important that you have safe* access to MRI if you need this important test to diagnose a medical condition or injury. We now offer the first full-body MR Conditional DBS systems, which means it is safe to have scans anywhere on the body with some Medtronic DBS devices under certain conditions.



PERSONALIZED FOR YOU

Your doctor programs your DBS system to provide the best symptom control for you. As your symptoms change over time, the programming can be changed.



MINIMIZE SIDE EFFECTS

DBS may cause some of your symptoms to get worse or may affect your speech. Your doctor can adjust the settings to minimize side effects while providing the best possible symptom control.

LEARN MORE ABOUT THE
ADVANTAGES OF MEDTRONIC DBS AT
[MEDTRONIC.COM/PDWHYMEDTRONIC](https://www.medtronic.com/pdwhymedtronic)

*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 1-800-328-0810.



This therapy is not for everyone. Not everyone will receive the same results. For further information, please call Medtronic at (1-800) 328-0810 and consult Medtronic's website at medtronic.com. A prescription is required.

As you consider these possible benefits, you should also explore the risks. This brochure discusses the benefits, risks and side effects associated with DBS Therapy. Be sure to discuss the risks of this therapy with your physician. A prescription is required. This therapy is not for everyone. Individual results may vary.

Placing the DBS system requires brain surgery which can have serious and sometimes fatal complications such as bleeding inside the brain, stroke, seizures and infection. This therapy is not for everyone. This therapy should not be used for patients who will be exposed to diathermy (deep heat treatment) or transcranial magnetic stimulation. Magnetic Resonance Imaging (MRI) should only be performed as described in the product labeling. Once implanted, infection may develop, parts may wear through your skin, and the lead or lead/extension connector may move. Tunneling the extension may cause nerve or tissue injury, and scar tissue may form around the extension. Medtronic DBS Therapy could stop suddenly because of mechanical or electrical problems. Any of these situations may require additional surgery or cause symptoms to return or worsen. The DBS system may interact with other medical devices and other sources of electromagnetic interference which may result in serious patient injury or death, system damage or changes to the neurostimulator or to stimulation. Medtronic DBS Therapy may cause new or worsening neurological or psychiatric symptoms. In patients receiving Medtronic DBS Therapy, depression, suicidal thoughts and suicide have been reported.

Rev 12/17

In a study of people with Parkinson's who had recent onset of movement symptoms, over the course of 2 years: Patients experience an additional 11% of serious adverse events (SAEs) compared to those taking medications alone.¹

1% of all people with DBS Therapy experience SAEs that were ongoing when the study was completed.¹

DBS patients experience comparable rates of serious adverse events (SAEs) regardless of recent onset or longer-standing movement symptoms.¹

1. Schuepbach WMM, Rau J, Knudsen K, et al. Neurostimulation for Parkinson's disease with early motor complications. *N Engl J Med*. February 14, 2013;368:610-227.

This therapy should not be used for patients who will be exposed to diathermy (deep heat treatment) or transcranial magnetic stimulation. Magnetic Resonance Imaging (MRI) should only be performed as described in the product labeling. The DBS system may interact with other medical devices and electromagnetic interference.

There are risks to performing MRI scans in people with DBS implants. Failure to follow all warnings and guidelines related to MRI can result in serious and permanent injury including coma, paralysis, or death.



Actual patient not pictured

GETTING BACK TO PAINTING

"DBS doesn't make things exactly like they used to be, but it makes things possible."

Anna
Receiving DBS Therapy

READ ANNA'S FULL STORY AT
MEDTRONIC.COM/PDSTORIES



ASK A NURSE YOUR QUESTIONS

Schedule a free phone consultation with a nurse who specializes in caring for people with DBS.



TALK WITH SOMEONE WHO HAS DBS

Talk one-on-one with someone who already has DBS for Parkinson's. Ask the questions that only people living with DBS Therapy can answer.*



FIND A PARKINSON'S SPECIALIST

Use our online directory to find a Parkinson's specialist in your area.

*Medtronic does not monitor for control, and cannot be responsible for, an ambassador's statements. Ambassadors are instructed not to disclose your personal information, but we cannot guarantee this will not happen. Therefore, please do not share your personal information with the ambassador unless you wish to do so. Ambassadors' comments relate to their particular experience only. As with any treatment, individual results will vary.

GET SUPPORT TODAY



ONLINE AT
**MEDTRONIC.COM/
PDSUPPORT**

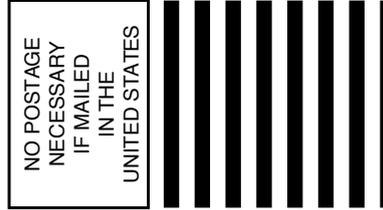


BY MAIL USING THE
**FORM ON THE
NEXT PAGE**



BY PHONE BY CALLING
1-877-438-3574
(8AM – 5PM CT,
MONDAY TO FRIDAY)

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START GETTING BACK TO YOU

By completing and submitting this form, you are granting Medtronic permission to add your personal information, including your contact information and basic healthcare information, to its patient database, and to share that information with Medtronic representatives as appropriate. You also agree to being contacted by Medtronic in the future by mail, telephone, or by non-password protected electronic communications, such as emails or text messages.

Medtronic may exchange information regarding our products or services, inquire about your experience, or determine how Medtronic can support you through your journey.

*Medtronic respects the confidentiality of your personal information. We will not share your personal information except as described above. If at any time you wish to revoke all or part of this permission, you can email us to rsneuropatientsupport@medtronic.com or send a request in writing to: Medtronic Patient Support, 7000 Central Ave NE, RCE 230, Minneapolis, MN 55432. This permission will expire 10 years after the date of your signature.**

*If you live in Maryland, the consent expires automatically in one year. We may contact you then to see if you would like to renew it.

LEARN MORE ABOUT DBS FOR PARKINSON'S

Medtronic

I HAVE PARKINSON'S

I CARE FOR SOMEONE WITH PARKINSON'S

RELATIONSHIP TO PATIENT

FIRST NAME

LAST NAME

ADDRESS

CITY

STATE

ZIP

EMAIL

PHONE

PARKINSON'S DIAGNOSIS YEAR

PHYSICIAN NAME

CLINIC NAME

SIGNATURE (IF 18 OR OLDER)

DATE

WHICH PARKINSON'S SYMPTOMS/SIDE EFFECTS ARE YOU EXPERIENCING?

Check all that apply

Stiffness rigidity

Slowed Movement bradykinesia

Shaking tremor

Unintended Movements dyskinesia

ADHESIVE PANEL

COMPLETE REGISTRATION FORM BEFORE SUBMITTING



GETTING BACK TO **GIVING BACK**

"Shortly after my DBS surgery I took over running our local Parkinson's Support Group. We try to educate people to keep things upbeat. I want people to realize there's hope."

Beverly
Receiving DBS Therapy

READ OTHER DBS STORIES AT MEDTRONIC.COM/PDSTORIES



GETTING BACK TO GARDENING

"I feel so much better. My energy level is improved and I'm smiling all the time. If I didn't have DBS Therapy, I believe I'd be in a nursing home."

Clare
Receiving DBS Therapy

EXPLORE MORE PATIENT STORIES AT
[MEDTRONIC.COM/PDSTORIES](https://www.medtronic.com/pdstories)

References

1. Medtronic DBS Therapy for Parkinson's Disease and Essential Tremor Clinical Summary, 2015.
2. Schuepbach WMM, Rau J, Knudsen K, et al. Neurostimulation for Parkinson's disease with early motor complications. *N Engl J Med*. February 14, 2013;368:610-22 7.

Brief Statement: Medtronic DBS Therapy for Parkinson's Disease

Medtronic DBS Therapy for Parkinson's Disease: Patients should always discuss the potential risks and benefits with a physician.

Indication: Bilateral stimulation of the internal globus pallidus (GPI) or the subthalamic nucleus (STN) using 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 with medication, including motor complications of recent onset (from 4 months to 3 years) or motor complications of longer-standing duration.

Contraindications: Medtronic DBS Therapy is contraindicated for patients who are unable to properly operate the neurostimulator and patients for whom test stimulation is unsuccessful. The following procedures are contraindicated for patients with DBS systems: diathermy (e.g., shortwave diathermy, microwave diathermy or therapeutic ultrasound diathermy), which can cause neurostimulation system or tissue damage and can result in severe injury or death; Transcranial Magnetic Stimulation (TMS); and certain MRI procedures using a full body transmit radio-frequency (RF) coil, a receive-only head coil, or a head transmit coil that extends over the chest area if the patient has an implanted Solettra™ Model 7426 Neurostimulator, Kinetra™ Model 7428 Neurostimulator, Activa™ SC Model 37602 Neurostimulator, or Model 64001 or 64002 pocket adaptor.

Warnings and Precautions: There is a potential risk of brain tissue damage using stimulation parameter settings of high amplitudes and wide pulse widths and a potential risk to drive tremor using low frequency settings. Extreme care should be used with lead implantation in patients with an increased risk of intracranial hemorrhage. Sources of electromagnetic interference (EMI) may cause device damage or patient injury. Theft detectors and security screening devices may cause stimulation to switch ON or OFF and may cause some patients to experience a momentary increase in perceived stimulation. The DBS System may be affected by or adversely affect medical equipment such as cardiac pacemakers or therapies, cardioverter/defibrillators, external defibrillators, ultrasonic equipment, electrocautery, or radiation therapy. MRI conditions that may cause excessive heating at the lead electrodes which can result in serious injury, including coma, paralysis, or death, or that may cause device damage include: neurostimulator implant location other than pectoral and abdominal regions; unapproved MRI parameters; partial system explants ("abandoned systems"); misidentification of neurostimulator model numbers; and broken conductor wires (in the lead, extension or pocket adaptor). The safety of electroconvulsive therapy (ECT) in patients receiving DBS Therapy has not been established. Tunneling the extension too superficially or too deeply may result in nerve or vascular injury, or tunneling through unintended anatomy. The lead-extension connector should not be placed in the soft tissues of the neck due to an increased incidence of lead fracture. Abrupt cessation of stimulation may cause a return of disease symptoms in some cases with intensity greater than was experienced prior to system implant ("rebound effect"). Patients using a rechargeable neurostimulator should check for skin irritation or redness near the neurostimulator during or after recharging. Loss of coordination in activities such as swimming may occur. Depression, suicidal ideations and suicide have been reported in patients receiving Medtronic DBS Therapy for Movement Disorders, although no direct cause-and-effect relationship has been established.

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, cerebral edema, 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 psychosis and abnormal thinking), cough, shocking or jolting sensation, ineffective therapy and weight gain or loss.

Safety and effectiveness has not been established for: patients with neurological disease other than idiopathic Parkinson's disease, previous surgical ablation procedures, dementia, coagulopathies, or moderate to severe depression; patients who are pregnant; and patients under 18 years.

USARx only Rev 11/17

Medtronic

710 Medtronic Parkway
Minneapolis, MN 55432
USA

Tel. 1-763-505-5000
(24-hour technical support for
physicians and medical professionals)

[Medtronic.com/DBS](https://www.Medtronic.com/DBS)

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