

RELIEF FROM MOVEMENT DISORDERS

DEEP BRAIN STIMULATION (DBS) can transform **QUALITY OF LIFE** for people who suffer from Parkinson's disease and other movement disorders.

MOVEMENT DISORDERS ARE NEUROLOGICAL CONDITIONS

characterized by lack of muscle control, involuntary movement and reduced coordination.



PARKINSON'S

- Slow movements
- Tremor (shaking)
- Stiffness
- Freezing



TREMOR

- Uncontrollable shake or tremble of hands, head, voice or torso

MOVEMENT DISORDERS BY THE NUMBERS

PARKINSON'S DISEASE AND ESSENTIAL TREMOR,

two of the most common movement disorders, affect hundreds of millions of people worldwide.



PARKINSON'S DISEASE
AFFECTS ABOUT
6.3 MILLION
PEOPLE WORLDWIDE¹

ANNUAL COST OF
PARKINSON'S DISEASE
IN THE U.S.:

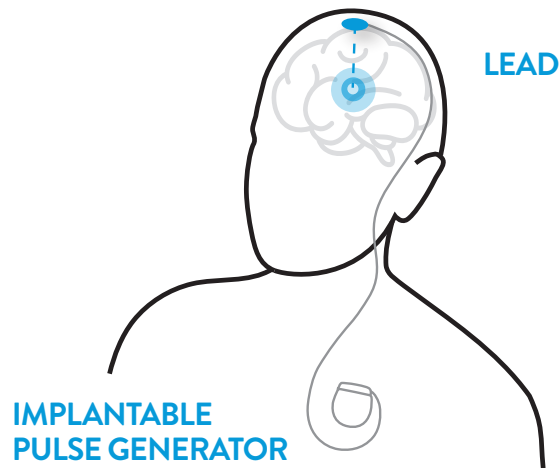
14.4
BILLION²



AN ESTIMATED 6.3 TO 9 PERCENT OF
PEOPLE OVER 60
SUFFER FROM **ESSENTIAL TREMOR**³

WHAT IS DEEP BRAIN STIMULATION?

DBS systems are surgically implanted devices that deliver mild electrical pulses to specific targets in the brain. The pulses stimulate the structures involved in motor control, influencing the irregular nerve signals responsible for many of the symptoms of movement disorders.



HOW CAN DBS HELP?

**DBS THERAPY CAN REDUCE SYMPTOMS,
IMPROVING QUALITY OF LIFE**

PARKINSON'S DISEASE



**REDUCES THE NEED
FOR MEDICATION.⁴**

10+ YEARS

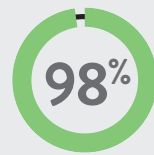


**MOTOR IMPROVEMENTS
LAST UP TO 10 YEARS
AND BEYOND.^{5*}**

TREMOR



**NINE OF 10 PATIENTS
REPORT BEING "SATISFIED"
OR "VERY SATISFIED"
WITH SYMPTOM CONTROL.⁶**



**98% OF PATIENTS
WOULD RECOMMEND
DBS THERAPY.⁶**

*Based on data from all manufacturers.

1. About Parkinson's. Retrieved May 12, 2016, from <http://www.epda.eu.com/en/pd-info/about-parkinsons>

2. Kowal, S. L., Dall, T. M., Chakrabarti, R., Storm, M. V. and Jain, A. (2013), The current and projected economic burden of Parkinson's disease in the United States. *Mov Disord*, 28: 311-318. doi:10.1002/mds.25292

3. International Essential Tremor Foundation. (2012). Facts about Essential Tremor. Retrieved May 17, 2016, from <http://www.essentialtremor.org/wp-content/uploads/2013/07/FactSheet012013.pdf>

4. Wharen RE Jr, Okun MS, Guthrie BL, et. al. Thalamic DBS with a constant-current device in essential tremor: A controlled clinical trial. *Parkinsonism Relat Disord*. 2017 Jul; 40:18-26. doi: 10.1016/j.parkreldis.2017.03.017. Epub 2017 Mar 30.

5. Castrioto, A., Lozano, A. M., Poon, Y. Y., Lang, A.E., Fallis, M., & Moro, E. (2011). Ten-Year Outcome of Subthalamic Stimulation in Parkinson Disease. *Archives of Neurology*, 68(12), 1550. doi: 10.1001/archneurol.2011.182

6. Abbott. Essential Tremor Final Report C-04-02. 2014. n = 127.

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SJM.com/DBS

St. Jude Medical is now Abbott.

There is no cure for Parkinson's disease (PD) and essential tremor (ET), but there are options available to treat symptoms. The first-line therapy is medication. Surgical treatments are also available. It's important to discuss with your doctor what's right for you along with the risks and side effects of each option, such as motor fluctuations or permanent neurological impairment.

As with any surgery or therapy, deep brain stimulation has risks and complications. Most side effects of deep brain stimulation DBS surgery are temporary and are resolved within the first few months. However, some complications can be more serious or permanent. Some people may experience lasting, stroke-like symptoms, such as weakness, numbness, problems with vision or slurred speech. In the event that side effects are intolerable or you are not satisfied with the therapy, the DBS system can be turned off or surgically removed.

Risks of brain surgery may include serious complications such as coma, bleeding inside the brain, paralysis, seizure and infection. Some of these may be fatal.

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

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