

Parkinson's disease

Latest treatments and research



Currently, there is no cure for Parkinson's disease. Treatment options include drug therapies and, in select patients, surgeries such as deep brain stimulation or radiofrequency ablation.

Focused ultrasound is an early-stage, noninvasive, therapeutic technology with the potential to improve the quality of life and decrease the cost of care for patients with Parkinson's disease. This novel technology precisely focuses beams of ultrasound energy on targets deep in the brain with minimal damage to normal surrounding tissue. Where the beams converge, the ultrasound can produce a variety of therapeutic effects, enabling the treatment of Parkinson's disease without incisions.



Focused Ultrasound and Parkinson's disease

▶ Building on **Success**

6

**international regions
with
regulatory approvals**

13

clinical trials

5

laboratory studies



► **Help us fund** laboratory studies and clinical trials to develop new treatments that are more effective and less expensive than the standard of care for Parkinson's disease.

Focused ultrasound has the ability to noninvasively treat some Parkinson's disease patients by interrupting brain circuits that cause mobility problems, such as tremor and instability. In addition, focused ultrasound can also potentially deliver drugs and other therapeutic agents to specific regions of the brain to prevent progression and improve symptoms. The benefits of focused ultrasound include:

Noninvasive | No incisions, no risk of infection or bleeding, less pain, and rapid recovery

Image guided | Precision targeting with minimal damage to surrounding tissue

Watch the inspiring story of **Kimberly**, a Parkinson's disease patient, who was treated in 2015 with focused ultrasound.

Webinars explaining the treatment

Breaking Barriers with Sound The Future of Parkinson's Disease Therapy with Focused Ultrasound

Nir Lipsman, MD, PhD
Sunnybrook Health Sciences Centre

Focused Ultrasound Therapies for Parkinson's Disease in Preclinical Models

Elisa E. Konofagou, MD, PhD
Columbia University



...the latest in treatments and research

Regulatory approvals

Parkinson's dyskinesia

Parkinson's tremor



Your gift's **impact**

We have launched a five-year, \$60 million campaign of which at least \$2 million will be dedicated to Parkinson's research.

The Foundation leverages knowledge and funding by working with leading organizations, such as The Michael J. Fox Foundation for Parkinson's Research.

Research funding helps **answer key questions**

- 1 What are the best targets for tissue destruction, or ablation?
- 2 What's the best target for delivery of therapeutics?
- 3 Which therapeutics, such as antibodies or genes, are most effective?

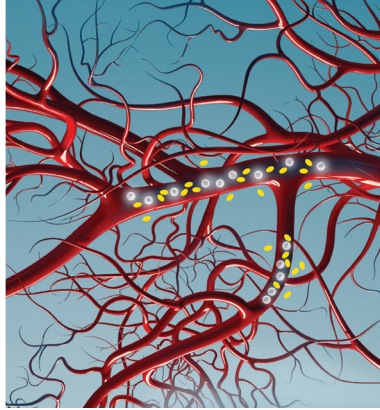
- Meet **Steve**, a Parkinson's disease patient treated with focused ultrasound, who experienced significant improvement in his quality of life.



Convening **the Community**

The Foundation hosted a **workshop** that brought together experts to discuss the state of the field and determine next steps for research and clinical trials. A white paper summarizes the workshop and provides a roadmap for researchers. ■

...and Parkinson's disease, building on success



About Focused Ultrasound Foundation

The Focused Ultrasound Foundation is an entrepreneurial, high-performance, medical research, education, and patient advocacy organization headquartered in Charlottesville, VA. On the leading edge of venture philanthropy and social entrepreneurship, the Foundation has demonstrated success in accelerating the development and adoption of focused ultrasound, an early-stage, noninvasive therapeutic technology that could transform the treatment of many medical disorders. The Foundation is a 501c(3) tax-exempt organization that uses donor funding to bridge the gap between laboratory research and widespread patient treatment. Our strong relationship with The Michael J. Fox Foundation for Parkinson's Research allows us to leverage our donors' giving.

For more information

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