



FOCUSED ULTRASOUND

An incisionless treatment for
essential tremor with instant,
durable tremor improvement

For more information please carefully read
safety information
<https://insightec.com/global/safety-information/>

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What is Essential Tremor?

Essential tremor (ET) is a neurological condition that causes shaking of the hands, head and voice, but it can also cause legs and trunk to shake. Some people even have a feeling of internal tremor. ET is often confused with Parkinson's disease although it's eight times more common, affecting an estimated over **60 million people worldwide**.¹ Unlike Parkinson's disease, ET is not a resting tremor but is characterized by intentional or action tremor.



**+60 Million
people worldwide
are affected by
Essential Tremor.¹**

Symptoms

The primary symptoms associated with essential tremor include:

- Uncontrollable shaking that occurs for brief periods of time during action
- Begins gradually, usually on one side of the body
- Occurs in the hands first, affecting one hand or both
- Can include a shaking voice or tremor of the head
- Nodding head
- Worsening during periods of emotional stress and purposeful movement

What is Focused Ultrasound?

Focused Ultrasound is an incisionless treatment performed as a unilateral treatment (for one hand) at a time (usually the dominant hand is treated first), for essential tremor patients who have not responded to medication. It uses sound waves guided by MRI to treat deep in the brain with no incisions or permanent implants.

The ultrasound waves are focused on a small spot in the brain, the Vim of the thalamus, considered to be responsible for tremor. The temperature at the target rises high enough to create a small ablation or burn, providing a therapeutic effect.

The MRI is the eyes of the treatment, enabling the physician to plan, guide and target the area for treatment. It also acts like a thermometer, providing continuous temperature monitoring in the focus and surrounding area to avoid unintended heating of the surrounding tissue.

With focused ultrasound you treat one side of the body at the time (the treated target in the brain is on the opposite side of the impacted limb). The second hand, provided you are a candidate, may be treated at least 9 months after the first treatment.

For intended use in each country, please see [insightec.com/regulatory-approvals/](https://www.insightec.com/regulatory-approvals/)





The woman in this image is not an ET patient.

“

**Don't let essential
tremor take away the
simple things in life.**

”

Benefits of Focused Ultrasound



5-year persistent effect was reported²

In an Insightec-sponsored clinical study, patients reported an immediate tremor improvement maintained at 73% at the 5 year follow up.



Treats both sides

Focused ultrasound is CE Marked to treat Essential tremor of both sides of the body. The procedures are staged by at least 9 months.



Significant life quality improvement

The same study² showed significant improvement in terms of physical activity and psychological effect sustained 5 years after the treatment.



Incisionless

Insightec's device uses focused ultrasound waves that can pass safely through the skull into the brain, with no incision.



Quick Recovery

With no surgical cuts, there is minimal to no risk of infection. You can expect to resume normal activities within days.

Specific benefits and potential risks might be associated with your personal health conditions. Therefore, it is important to discuss your therapeutic options with your physician.



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I always loved baking, so I decided to open my own bakery. One day, my right hand started to shake. Gradually I couldn't do daily activities like drink or eat, not to mention baking or serving coffee to my customers. I became completely dependent on my staff.

At first, the doctors prescribed medications, but they didn't work for me. Then they suggested the MRI-guided focused ultrasound treatment. I knew I would have to shave my head, but I just wanted to live my dream - to serve my customers again.

After a couple of hours or so, on the MRI bed, my hand didn't shake anymore.

”

Haya Mendlebaum, Focused Ultrasound Patient

Results may not be representative of all treatment outcomes.

Is the treatment an option for me?

It is important to consult with your physician or a Focused Ultrasound Treatment Center to determine if the Focused Ultrasound treatment is right for you.

As part of the evaluation process, the severity of your tremor and your overall health will be evaluated.

Patients will need to undergo a CT scan in order to determine if they are candidates for the Focused Ultrasound treatment.

If you have metallic implants such as pacemakers, neuro-stimulators, spine or bone fixation devices, total joints, metal clips, screws, etc, you will need to consult with a physician to determine if Focused Ultrasound is an option for you. Any metallic implants must be MRI-compatible to prevent injury to the patient from the MRI's strong magnetic field.

Also, if you are not generally healthy enough to withstand the treatment and lie still in the same position for on average 2.5 hours, you may not be a good candidate for this treatment. There are additional limitations and a physician will do an assessment to verify if you are a candidate for the treatment.

For safety information, please visit:
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What happens before, during, and after the treatment?

Preparation

The Focused Ultrasound treatment requires that a patient have a cleanly shaven head. The Ultrasound waves will be transmitted into the brain from a helmet-like transducer. This is in order to ensure no interference of the sound waves. A local numbing medication will be applied and a head frame will be secured to your head so that your head does not move during treatment.

Your heart rate, blood pressure and blood oxygen levels may be monitored throughout the treatment. You will be awake, communicating with the treatment team throughout the treatment. You may be given additional medication to keep you comfortable.

Cool water will circulate in the helmet around the top of your head and you will be kept warm in case you get chilled. You will also be given a “stop sonication” button to indicate to the physician that you want to stop the treatment for any reason.



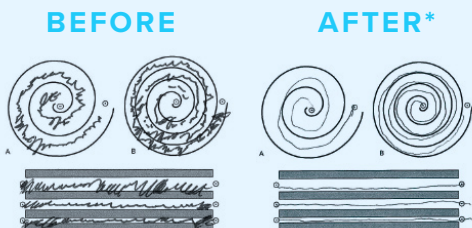
Planning

A series of MRI images will be taken for planning the treatment according to your specific anatomy. The treating physician will first apply light doses of ultrasound energy. This helps to identify the precise spot in the brain for treatment by assessing temporary tremor improvement and any potential side effects.

After each application of energy, called a sonication, you will be asked to perform specific tasks to evaluate your tremor improvement. Tasks may include touching your nose with your finger and/or drawing spirals.

Treatment

The treating physician will then gradually increase the energy to create a small lesion, usually resulting in a therapeutic effect, improvement of hand tremor in the treated side. Although individual results may vary, you should notice improvement during the treatment itself. The treatment lasts on average 2.5 hours.



After Treatment

After treatment, the the transducer and head frame will be removed. will be removed and you will go to the recovery room. The physician will let you know when you can go home and when you may need to return for a follow-up visit. Within days you should be able to return to normal activities. The treatment team will provide you with instructions related to your post-treatment recovery.

*Results may not be representative of all treatment outcomes.

What results can I expect?

For the first side treatment, outcomes of the Insightec sponsored clinical trial demonstrated an average of 73.1% improvement in tremor severity at 5 year follow up in 40 patients². For the second side treatment, outcomes of the Insightec sponsored clinical trial demonstrated an average of 80.2% improvement in tremor severity at 6 month follow up in 51 patients.⁴



The woman in this image is not an ET patient.

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That peace I felt
was unbelievable.
”

Marie Baker, Focused Ultrasound Patient

Results may not be representative of all treatment outcomes.

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Safety Information

Overall, the focused ultrasound treatment has been shown to be safe for treating essential tremor with minimal risk, but as with any medical procedure, there are risks. You should have a detailed conversation with your physician regarding complications, also known as adverse events, that you may experience.

An Insightec sponsored clinical study in 76 patients³ have shown that the most common adverse events after treatment of the first side are:

- Imbalance/gait disturbance (26% of study patients)
- Numbness/tingling (33%)
- Headache/head pain (51%).

Most of these events were classified as mild or moderate, and 48% of all adverse events resolved on their own within 30 days. Additional infrequent events include dizziness, taste disturbance, slurred speech, fatigue and vomiting.

Adverse events recorded at 5-year follow up in 40 patients:²

- No new AEs recorded at 5 year follow up
- No new or worsening of AEs recorded 1 year after treatment or at 5 year follow up

Safety Information

Continued

Second Side Treatment – Insightec sponsored clinical study have shown that the most common adverse events after treatment in 51 patients are⁴ :

- Numbness/tingling (31% of subjects)
- Slurred Speech (29% of subjects)
- Ataxia (23% of subjects)

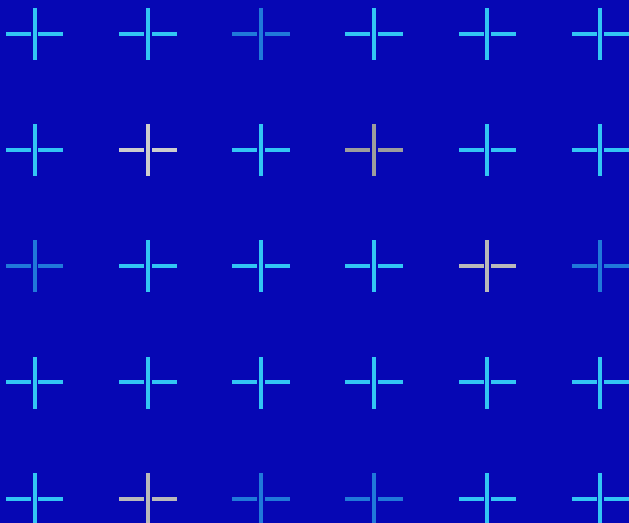
About half of the related events were still ongoing at 6 months, but nearly all (95.7%) were mild.

Second Side Treatment –Complications that persisted in more than 2% of subjects at 6 months included:

- Numbness/Tingling (16% of subjects)
- Slurred speech (14% of subjects)
- Ataxia (14% of subjects)
- Hypogeusia (8% of subjects)
- Dysphagia (8% of subjects)
- Dysgeusia (6% of subjects)

If you experience a blood clot after the procedure that is not treated quickly, you may have long term related complications.

* For additional safety information, please refer to:
<https://insightec.com/global/safety-information/>
Again, you should discuss in detail the risks, benefits and treatment options with your physician prior to treatment.



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1. Welton, T., Cardoso, F., Carr, J.A. et al. Essential tremor. Nat Rev Dis Primers 7, 83 (2021). <https://www.nature.com/articles/s41572-021-00314-w>
2. Cosgrove GR, Lipsman N, Lozano AM, et al. Magnetic resonance imaging-guided focused ultrasound thalamotomy for essential tremor: 5-year follow-up results J Neurosurg. 2022;1-6. doi:10.3171/2022.6.JNS212483. Based on an Insightec sponsored clinical trial. Drs Cosgrove, Lipsman and Lozano received clinical or research support from Insightec for the study described; further these doctors are or have been paid consultants by Insightec.
3. Elias, W. J. et al. A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor. New Engl J Medicine 375, 730–739 (2016)
4. Data on file with Insightec

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Device name: Exablate Neuro

Visit our website for more information about the focused ultrasound treatment for essential tremor:

www.insightec.com/essential-tremor-treatment/

Note: Exablate Neuro fulfills the requirements for CE marking, as established by Notified Body 0344.

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