A Life-Changing Treatment for Pediatric Pain

Osteoid Osteoma is a painful bone tumor affecting thousands of children and young adults
Imagine a young boy with a tumor in his thigh bone that is so excruciatingly painful he can’t sleep through the night. Imagine if there was a treatment that could destroy the tumor without invasive surgery, allowing him to walk out of the hospital the day of the treatment, and sleep that evening, pain-free. An osteoid osteoma is a rare and times debilitating, benign bone tumor that occurs most commonly in children and young adults. Despite its small size – about 1 cm – an osteoid osteoma tumor can cause extreme, disabling pain.

Current treatment options are limited
Current minimally-invasive treatment options for osteoid osteoma tumors deliver radiofrequency or laser energy through a needle to destroy the tumor. While these approaches are safer than invasive surgery, they carry other risks, including radiation exposure, infection, burning of the surrounding tissue, and bone fractures resulting from the hole that remains following treatment.

Focused ultrasound has the potential to improve lives
Focused ultrasound is a new and groundbreaking, non-invasive medical treatment, which concentrates multiple intersecting beams of ultrasound through an acoustic lens to precisely target areas deep in the body. This new technology has the potential to be more accurate at targeting tumors, reducing the risk for damage to surrounding bone and tissue; lowering risk of complications from infection and bone fracture; and offering a faster treatment with rapid pain relief and reduced recovery time.

The Focused Ultrasound Foundation is committed to funding a pilot trial to evaluate the feasibility, safety and preliminary efficacy of focused ultrasound as pain therapy for children and young adults suffering from osteoid osteomas. Twenty patients will be treated at three sites in North America with the intent to demonstrate that focused ultrasound ablation of benign bone tumors can reduce pain in pediatric patients without adverse side effects. If successful, the trial may pave the way for other pediatric applications of focused ultrasound.

You can make a difference
The cost for this trial is $200,000. Focused Ultrasound Foundation Council Member Ellen Block, and the Ellen & Ronald Block Family Foundation, have awarded the Focused Ultrasound Foundation a $100,000 challenge grant to fund this study, requiring that the Focused Ultrasound Foundation raise 1:1 matching funds of $100,000. Please help ease the pain and suffering of osteoid osteomas in young children.

Why give?
• You can double your impact! Every donation received will be matched thanks to the Ellen & Ronald Block Family Foundation.
• You can be a driving force behind a new approach that could improve the lives of young people affected by osteoid osteomas.
• Your gift can inspire increased investment from industry, government and other philanthropies to carry this technology forward.

For more information:
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About the Foundation

The Focused Ultrasound Foundation was created to improve the lives of millions of people worldwide by accelerating the development and adoption of focused ultrasound therapies. The Foundation works to clear the path to global adoption by coordinating and funding research and educational activities, fostering collaboration, and building awareness of the technology among patients and professionals. Since its establishment in 2006, the Foundation has become the largest non-governmental source of funding for focused ultrasound research.

Our unique venture philanthropy platform

The Foundation leverages its intellectual and financial capital to expedite the pace of research from clinical trials through FDA review and ultimately to the point of being a widely accepted standard of care in a matter of years rather than decades. We define the development pathway and track performance metrics. We support early research that validates the potential for new applications and attracts follow-on funding from government, industry and other philanthropies. We develop collaborative partnerships that enable us to achieve more with our resources, expanding the number of patients who benefit from our work.