About the Focused Ultrasound Foundation

The Focused Ultrasound Foundation is a medical technology research, education and advocacy organization dedicated to improving the lives of millions of people with serious medical disorders by accelerating the development and adoption of focused ultrasound. The Foundation is unique in that it supports a platform technology that utilizes multiple mechanisms of action to treat a wide variety of diseases.

Positioned at the nexus of the large, diverse group of stakeholders comprising the ultrasound community, the Foundation functions as an independent, trusted and unbiased third party, aligning organizations into a cohesive ecosystem with a single goal: to make focused ultrasound technology available to patients in the shortest time possible. The Foundation works to establish a patient centric culture, instill a sense of urgency in all stakeholders, and alleviate barriers to progress.

The Foundation catalyzes collaboration and partnerships, organizes and funds research, spearheads advocacy and patient support initiatives, and organizes meetings, symposia and workshops to create and disseminate knowledge and increase awareness of focused ultrasound. Early-stage research funded by the Foundation “de-risks” subsequent investment, thus encouraging other funding sources such as disease-specific foundations, the NIH, and the biomedical industry to become more involved.

The Foundation is on the leading edge of the venture philanthropy and social entrepreneurship movements and is a model of how private philanthropy can work in concert with academia, industry and government to bridge the gap between research and commercialization of a high-impact medical technology.

Established in 2006 as a tax exempt organization, the Foundation is based in Charlottesville Virginia and has global activities.

About Focused Ultrasound

Focused ultrasound is a revolutionary, noninvasive therapeutic technology with the potential to transform the treatment of many serious medical disorders including tumors of the brain, breast, prostate, liver and other organs, Parkinson’s disease, epilepsy, and stroke. With ongoing research, focused ultrasound could address unmet clinical needs and provide treatments which are superior to best current therapy, thereby improving the quality of life and longevity for millions of patients around the world.

This breakthrough technology uses ultrasonic energy guided by magnetic resonance or ultrasound imaging to treat tissue deep in the body without incisions or radiation. Multiple intersecting beams of ultrasound are directed and concentrated with on a target as small as a grain of rice, much like a magnifying glass can focus multiple beams of light on a single point.

A variety of profound biological effects result at the focal point where the beams converge; where individual beams pass unfocused through adjacent tissue on the way to their target, they exert no effect or damage. Integrated magnetic resonance and ultrasound imaging identifies and targets the tissue to be treated, guides and controls the treatment interactively, in real time, and provides immediate confirmation of the effectiveness of the therapy. Because focused ultrasound offers many mechanisms of action, treatment of a wide variety of conditions is possible.

Focused ultrasound has the potential to be the ultimate in noninvasive surgery, an alternative or complement for radiation therapy, the means to dissolve blood clots and restore circulation through blocked vessels, and a way to deliver drugs in extremely high concentration to a precise point in the body, thus avoiding systemic toxicity.

Focused ultrasound is performed in an outpatient setting without general anesthesia. There are no incisions or scars, minimal pain and discomfort, and more rapid recovery. The technology has the potential to result in fewer complications such as infection or blood clots, avoid the toxic side effects of drugs and radiation therapy, and deliver treatment that is safer and more effective, costs less, and produces an immediate and verifiable effect.

Focused ultrasound is approved in the US and EU and a number of other countries for treatment of uterine fibroids and approved in the EU and other countries for treatment of bone metastases and prostate cancer. In addition, extensive research is being conducted around the world on a number of clinical applications.
Charts by subjects

4 US Based Manufacturers

5 Research Sites
   5 By states
   6–7 By states with research level

8 US Technical Research Sites
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   9 By states with research area
   10 Virginia

11 US Pre-clinical Research Sites
   11 By states
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   13 Virginia

14 US Clinical Research Sites
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   16 Virginia

17 US Commercial Treatment
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20 Regulatory Approval
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21 Treatment Sites
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The information in this report was provided by manufacturers and the focused ultrasound research community to the Focused Ultrasound Foundation. The FUS Foundation aims to provide the most accurate information, if you have more current or updated information please send it to: progress@fusfoundation.org.
US Based Manufacturers

5

Ultrasound Guidance

Histosonics, Inc., Ann Arbor MI
International Cardio Corporation, LLC, Minnetonka MN
Kona Medical, Bellevue WA
Mirabilis Medical, Bothell WA
SonaCare Medical, LLC, Charlotte NC

See page 20 for regulatory approval information
US Research Sites

61 Sites

25 States

North Carolina
Massachusetts
New Jersey
Washington, DC
Maryland

8 sites
2 sites
1 site
1 site
4 sites
US Research Sites

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<td>University MRI &amp; Diagnostic Imaging Centers - South, Boca Raton</td>
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<td>National Institutes of Health (NIH), Bethesda</td>
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<td>University of Maryland School of Medicine, Baltimore</td>
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<td>Walter Reed National Military Medical Center, Bethesda</td>
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<td>Wake Forest University Baptist Medical Center, Winston-Salem</td>
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US Research Sites

Continued from previous page.

**New Jersey**
- Artann Laboratories, Lambertville

**New York**
- Columbia University, New York
- Memorial Sloan-Kettering Cancer Center, New York
- Montefiore Medical Center, Bronx
- New York University (NYU) Langone Medical Center and School of Medicine, New York
- NYP - Weill Cornell Medical Center, New York
- Winthrop University Hospital, Mineola

**Ohio**
- Cleveland Clinic, Cleveland
- ProMedica Toledo Hospital, Toledo
- University Hospitals of Cleveland Case Medical Center, Cleveland
- University of Cincinnati, Cincinnati

**Oregon**
- Oregon Health and Science University, Portland

**Pennsylvania**
- Drexel University, Philadelphia
- Fox Chase Cancer Center, Philadelphia
- Urologic Consultants of Southeastern Pennsylvania, Bala Cynwyd

**South Carolina**
- Grand Strand Urology, Myrtle Beach
- Medical University of South Carolina (MUSC), Charleston

**Tennessee**
- Southeast Urology Network, Memphis
- Urology Associates, Nashville
- Vanderbilt University, Nashville

**Texas**
- CHI St. Luke’s Health, Houston
- The Methodist Hospital, Houston
- University of Texas MD Anderson Cancer Center, Houston
- Urology of San Antonio, San Antonio
- UT Southwestern, Dallas

**Utah**
- University of Utah, Salt Lake City

**Virginia**
- University of Virginia (UVA) Health System, Charlottesville

**Washington**
- Swedish Neurosciences Institute, Seattle
- University of Washington, Seattle

**Wisconsin**
- University of Wisconsin Carbone Cancer Center, Madison
Technical US Research Sites

33 Sites
19 States

Map of the United States showing the distribution of 33 research sites across 19 states, with concentrated sites in California, Texas, and Maryland.
Focused Ultrasound Foundation

Spring 2014

Technical US Research Sites

33 Sites

- MR imaging for FUS guidance
- Focused Ultrasound Physics
- Focused Ultrasound Transducer technology
- Ultrasound imaging for FUS guidance

- Amplification of cancer biomarker
- Clot lysis
- Drug Delivery
- Drug activity enhancement
- Immunomodulation
- Neuromodulation
- Radio sensitization
- Sonodynamic therapy
- Tissue destruction (Histotripsy)
- Tissue destruction (Thermal Ablation)
- Vasodilatation

California
- City of Hope
- Stanford University Medical Center
- UCLA/Brainsonix
  - UCLA Ronald Reagan Medical Center
- University of California, Davis
  - University of California at San Diego
  - University of California San Diego (UCSD) Thornton Hospital
  - University of California San Francisco (UCSF)

Illinois
- University of Chicago

Indiana
- Indiana University School of Medicine

Kansas
- University of Kansas - KU Bioengineering Research Center Mechanical Engineering

Louisiana
- Tulane University

Massachusetts
- Boston University
- Brigham and Women's Hospital (BWH)

Maryland
- Johns Hopkins University School of Medicine
- National Institutes of Health (NIH)
- University of Maryland School of Medicine

Michigan
- University of Michigan (UMich)

Minnesota
- Mayo Clinic - Minnesota
- University of Minnesota

New York
- Columbia University

North Carolina
- Duke University
- Wake Forest University Baptist Medical Center

Ohio
- University of Cincinnati

Pennsylvania
- Drexel University

South Carolina
- Medical University of South Carolina (MUSC)

Tennessee
- Vanderbilt University

Texas
- CHI St. Luke's Health
- University of Texas MD Anderson Cancer Center

Utah
- University of Utah

Virginia
- University of Virginia (UVA) Health System

Washington
- Swedish Neurosciences Institute
- University of Washington
Technical Research Site, Virginia

6 Research Areas

- MR imaging for FUS guidance
- Clot lysis
- Drug Delivery
- Neuromodulation
- Sonodynamic therapy
- Tissue destruction (Thermal Ablation)
Pre-clinical US Research Sites

40 Sites
21 States

Massachusetts
New Jersey
Maryland
### Pre-clinical US Research Sites

#### 40 Sites

<table>
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<th>State</th>
<th>Research Sites</th>
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<td>University of California San Francisco (UCSF)</td>
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<td>University MR1 &amp; Diagnostic Imaging Centers - South</td>
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<td>Memorial Sloan-Kettering Cancer Center</td>
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<td>Swedish Neurosciences Institute</td>
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<td></td>
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- Alzheimer’s Disease
- Atherosclerosis
- Atrial fibrillation
- Back and neck pain
- Benign Prostatic Hypertrophy
- Bladder tumors
- Bone Metastases
- Brain Tumors
- Breast Cancer
- Breast Fibroadenoma
- Cancer pain
- Colon
- Epilepsy
- Essential Tremor
- Glaucoma
- Hydrocephalus
- Hypertension
- Kidney Tumors
- Liver Tumor
- Neuropathic pain
- Obsessive-compulsive Disorder
- Osteoarthritis
- Osteoid Osteoma
- Pancreatic Tumor
- Parkinson’s Disease
- Prostate Cancer
- Prostate Tumors
- Septal perforation
- Soft Tissue Tumors
- Stroke
- Thyroid & Parathyroid tumors
- Trigeminal neuralgia
- Uterine Fibroids
- Uterine Adenomyosis
Pre-clinical Research Site, Virginia

5 Indications

- Brain tumors
- Epilepsy
- Essential tremor
- Osteoarthritis
- Parkinson's disease
Clinical US Research Sites

47 Sites
22 States
## Clinical US Research Sites

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- Soft Tissue Tumors
- Stroke
- Thyroid & Parathyroid tumors
- Trigeminal neuralgia
- Uterine Fibroids
- Uterine Adenomyosis

### Alabama
- Urology Centers of Alabama

### California
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- UCLA/Brainsonix
- UCLA Ronald Reagan Medical Center
- University of California, Davis
- University of California San Diego (UCSD) Thornton Hospital
- University of California San Francisco (UCSF)

### Washington, DC
- Children’s National Hospital

### Florida
- Specialists in Urology, PA
- University MRI & Diagnostic Imaging Centers - South

### Illinois
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### Indiana
- Indiana University Health, University Hospital
- Metropolitan Urology

### Louisiana
- Tulane University

### Massachusetts
- Brigham and Women’s Hospital (BWH)

### Maryland
- Johns Hopkins University School of Medicine
- National Institutes of Health (NIH)
- University of Maryland School of Medicine
- Walter Reed National Military Medical Center

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- University of Texas MD Anderson Cancer Center
- Urology of San Antonio
- UT Southwestern

### Virginia
- University of Virginia (UVA) Health System

### Washington
- Swedish Neurosciences Institute

### Wisconsin
- University of Wisconsin Carbone Cancer Center
Clinical Research Site, Virginia

5 Indications

- Bone Mestases
- Brain Tumors
- Essential Tremor
- Parkinson’s Disease
- Uterine Fibroids
US Commercial Treatment Sites

- Bone Metastases: 7
- Uterine Fibroids: 11

Map of US showing treatment sites for Bone Metastases and Uterine Fibroids.
## US Commercial Treatment Sites

### Bone Metastases
- City of Hope, Duarte
- Fox Chase Cancer Center, Philadelphia
- Memorial Sloan-Kettering Cancer Center, New York
- Stanford University Medical Center, Stanford
- UCLA Ronald Reagan Medical Center, Los Angeles
- University of California San Francisco (UCSF), San Francisco
  - **University of Virginia (UVA) Health System, Charlottesville**

### Uterine Fibroid
- Brigham and Women’s Hospital (BWH), Boston
- Duke Health Center at Southpoint, Durham
- Focused Ultrasound Northwest, Seattle
- Mayo Clinic - Minnesota, Rochester
- Riverside Methodist Hospital, Columbus
- Stanford University Medical Center, Stanford
- UCLA Ronald Reagan Medical Center, Los Angeles
- University of California San Diego (UCSD) Thornton Hospital, La Jolla
- University of California San Francisco (UCSF), San Francisco
- University MRI & Diagnostic Imaging Centers - South, Boca Raton
  - **University of Virginia (UVA) Health System, Charlottesville**
Commercial Treatment Site, Virginia

1 Sites

- Bone Metastases
- Uterine Fibroids
## Regulatory Approvals

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<tr>
<td>Mirabilis Medical, Inc.</td>
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<td>Sonacare Medical, LLC</td>
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<td>Breast Fibroadenoma</td>
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US Treatment Sites

18 Sites

2 Treatment Types

Number of indications treated at site
- 1
- 2
European Treatment Sites

211 Sites

9 Treatment Types

Number of indications treated at site:
- Blue: 1
- Orange: 4
- Green: 2
- Red: 5
- Brown: 6

Map showing distribution of treatment sites across Europe.
The information in this report was provided by manufacturers and the focused ultrasound research community to the Focused Ultrasound Foundation. The FUS Foundation aims to provide the most accurate information, if you have more current or updated information please send it to: progress@fusfoundation.org.