

2024

Commercial FUS Manufacturers



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Overview

In the wake of exponential advancement, the industry has surpassed the inflection point, reflecting a shift from “if” focused ultrasound will have a critical place in the therapeutic armamentarium to “when” it will be widely available as a mainstream standard of care.

Additionally, we see increasing evidence that the field is transitioning from primarily a science-based research environment to commercialization with patient treatment spaces focused on marketing and sales. As this transition gains momentum, we want to keep pace with the data points and metrics needed to understand and evaluate this global commercialization to accurately analyze the information and disseminate our findings to all stakeholders. This chapter is a deep dive into the 17 companies with commercial products available to treat 32 indications. Information on companies still in the research and development stage can be found in Chapter 8 and/or on our website, fusfoundation.org/for-industry.

A special thank you to all the industry partners in this space who, year after year, provide information on their companies so that we can collate the data in aggregate and better understand the field.

Approvals may have changed or been updated since publication. For the most up-to-date information, please visit fusfoundation.org/the-foundation/programs/regulatory-approvals-search.

X. Commercial FUS Manufacturers

X. 2 Overview

Approvals

- X. 3 By Manufacturer
- X. 3 Summary of Global Approvals
- X. 4 Clinical Device Manufacturers
- X. 5 For Companies by Region and Indication

Manufacturers

- X. 7 Clinical Device Manufacturers with Regulatory Approvals
 - X. 7 Acoustic MedSystems
 - X. 8 Alpinion Medical Systems
 - X.10 Changjiangyuan Technology Development
 - X.12 Chongqing Haifu Medical Technology
 - X.20 EDAP TMS

- X.22 EpiSonica
- X.23 EyeTechCare
- X.24 HistoSonics
- X.26 Insightec
- X.36 Profound Medical
- X.42 Shanghai A&S Science Technology Development
- X.44 Shanghai Shende Green Medical Era Healthcare Technology
- X.46 Shenzhen PRO-HITU Medical Technology
- X.48 Sonablate
- X.51 Theraclion
- X.54 Theraclion Veterinary
- X.56 TOOsonix
- X.58 Wuxi Haiying Electronic Medical Systems

Photographs

- X. 59 Approved Clinical Devices

Number of Indication Approvals by Manufacturer

	North America	Europe	Asia	South America	Oceania	Mid East / Africa
Manufacturer						
Acoustic MedSystems ¹	1	–	–	–	–	–
Alpinion Medical Systems	–	1	2	–	–	–
Changjiangyuan Technology Development ²	–	1	–	–	–	–
Chongqing Haifu Medical Technology	7	7	11	7	–	7 / 7
EDAP TMS	2	1	1	1	–	–
EpiSonica	–	–	1	–	–	–
EyeTechCare	–	1	1	–	–	–
HistoSonics	1	–	–	–	–	–
Insightec	8	12	14	3	11	8 / –
Profound Medical	6	7	7	5	–	3 / –
Shanghai A&S	–	1	5	–	–	–
Shende Medical ³	–	1	–	–	–	–
Shenzhen PRO-HITU Medical	–	1	4	–	–	–
Sonablate	2	2	2	2	2	2 /
Theraclion	–	3	3	–	–	–
TOOsonix ⁴	–	1	–	–	–	–
Wuxi Haiying Electronic Medical	–	–	1	–	–	–

Summary of Global Approvals

42

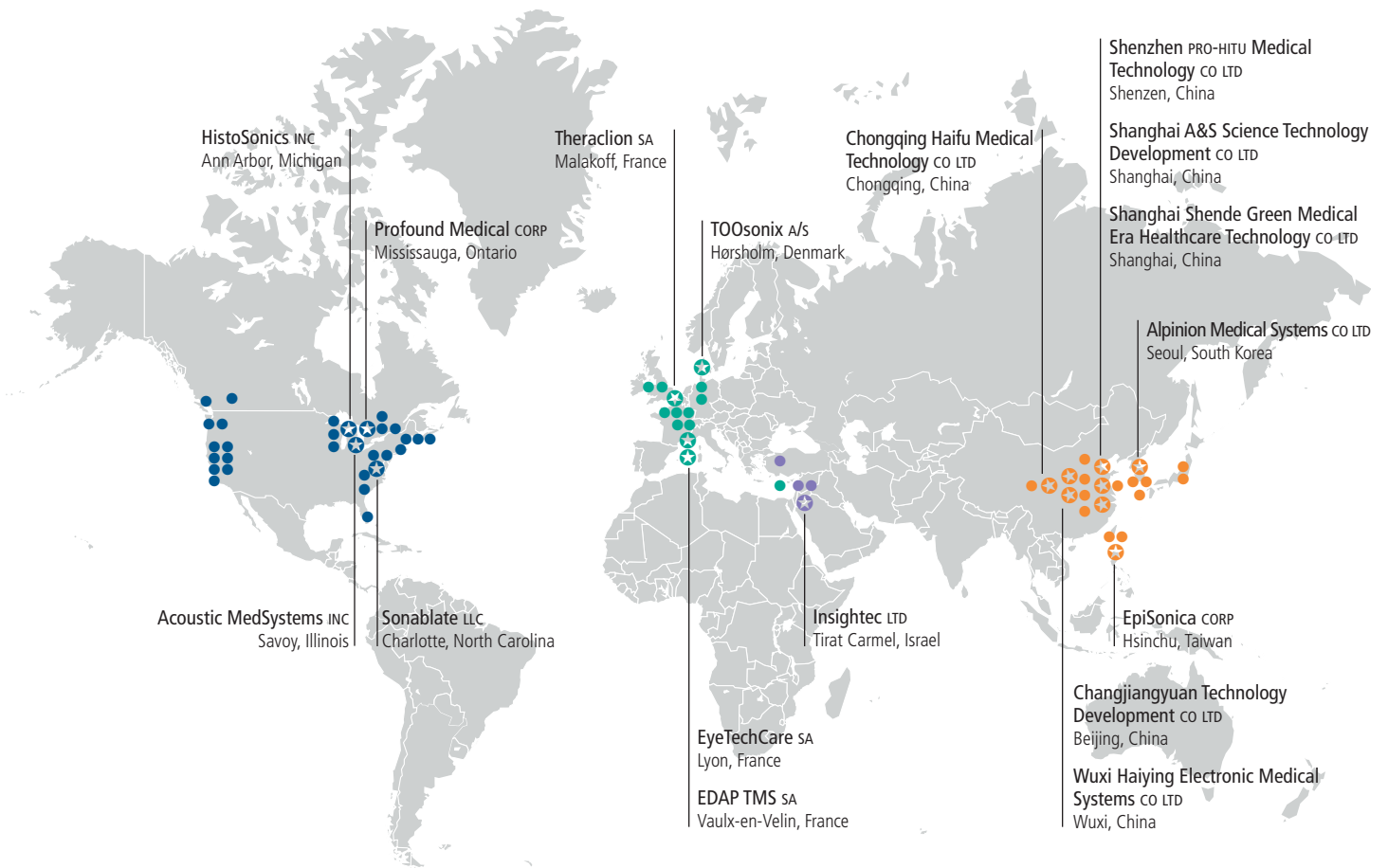
Regulatory agencies

395

Approvals worldwide

1 Approval is for soft tissue ablation, excluding prostate.
 2 Approval is for tumor ablation.
 3 Manufacturer was formerly known as Shende Medical Equipment Technology.
 4 Approval are for aesthetic indications, which are not tracked by the Foundation.

Clinical Device Manufacturers with Regulatory Approvals*



★ ★ ★ ★ Clinical device manufacturers that have a device or devices with regulatory approvals by regional location. Company listings of devices, approved indications, and regulatory agencies granting approvals are found on the subsequent pages.

● ● ● ● Location of clinical device manufacturers without approved devices by region.

* Approvals may have changed or been updated since publication. For the most up-to-date information please visit: fusfoundation.org/the-foundation/programs/regulatory-approvals-search.

Regulatory Approvals for Companies by Region and Indication

■ North America

Acoustic MedSystems
Soft tissue ablation, excluding prostate

Chongqing Haifu Medical Technology
Bone cancer
Breast tumors, malignant
Kidney tumors
Liver tumors
Pancreatic tumors, malignant
Uterine adenomyosis
Uterine fibroids

EDAP TMS
Benign prostatic hyperplasia
Prostate cancer

HistoSonics
Liver tumors

Insightec
Benign prostatic hyperplasia
Bone metastases
Essential tremor
Neuropathic pain
Parkinson’s disease, dyskinesia
Parkinson’s disease, tremor
Prostate cancer
Uterine fibroids

Profound Medical
Benign prostatic hyperplasia
Bone metastases
Osteoid osteoma
Prostate cancer
Uterine adenomyosis
Uterine fibroids

Sonablate
Benign prostatic hyperplasia
Prostate cancer

■ Europe

Alpinion Medical Systems
Uterine fibroids

Changjiangyuan Technology Development
Tumor ablation

Chongqing Haifu Medical Technology
Bone cancer
Breast tumors, malignant
Kidney tumors
Liver tumors
Pancreatic tumors, malignant
Uterine adenomyosis
Uterine fibroids

EDAP TMS
Prostate cancer

EyeTechCare
Glaucoma

Insightec
Arthritis, facetogenic
Bone cancer
Bone metastases
Bone tumors, benign
Essential tremor
Multiple myeloma
Neuropathic pain
Parkinson’s disease, dyskinesia
Parkinson’s disease, tremor
Prostate cancer
Uterine adenomyosis
Uterine fibroids

Profound Medical
Benign prostatic hyperplasia
Bone metastases
Desmoid tumors
Osteoid osteoma
Prostate cancer
Uterine adenomyosis
Uterine fibroids

Shanghai A&S
Uterine fibroids

Shende Medical
Bone metastases

Shenzhen PRO-HITU Medical
Uterine fibroids

Sonablate
Benign prostatic hyperplasia
Prostate cancer

Theraclion
Breast tumors, benign
Thyroid nodules
Varicose veins

TOOsonix
Aesthetic indications

■ Asia

Alpinion Medical Systems
Uterine adenomyosis
Uterine fibroids

Chongqing Haifu Medical Technology
Bone cancer
Breast tumors, benign
Breast tumors, malignant
Cervicitis
Kidney tumors
Liver tumors
Pancreatic tumors, malignant
Rhinitis
Soft tissue tumors, benign
Uterine adenomyosis
Uterine fibroids

EDAP TMS
Prostate cancer

EpiSonica
Soft tissue cancer

EyeTechCare
Glaucoma

Insightec
Arthritis, facetogenic
Bone cancer
Bone metastases
Bone tumors, benign
Depression
Essential tremor
Multiple myeloma
Neuropathic pain
Obsessive-compulsive disorder
Parkinson’s disease, dyskinesia
Parkinson’s disease, tremor
Prostate cancer
Uterine adenomyosis
Uterine fibroids

Profound Medical
Benign prostatic hyperplasia
Bone metastases
Desmoid tumors
Osteoid osteoma
Prostate cancer
Uterine adenomyosis
Uterine fibroids

Shanghai A&S
Bone metastases
Breast tumors, malignant
Liver tumors
Soft tissue cancer
Uterine fibroids

Shenzhen PRO-HITU Medical
Hyperplasia of the vulva
Lichen sclerosis
Uterine adenomyosis
Uterine fibroids

Sonablate
Benign prostatic hyperplasia
Prostate cancer

Theraclion
Breast tumors, benign
Thyroid nodules
Varicose veins

Wuxi Haiying Electronic Medical
Uterine fibroids

Regulatory Approvals for Companies by Region and Indication continued

■ South America	■ Oceania	■ Middle East	■ Africa
<p>Chongqing Haifu Medical Technology Bone cancer Breast tumors, malignant Kidney tumors Liver tumors Pancreatic tumors, malignant Uterine adenomyosis Uterine fibroids</p> <p>EDAP TMS Prostate cancer</p> <p>Insightec Essential tremor Neuropathic pain Parkinson's disease, tremor</p> <p>Profound Medical Bone metastases Desmoid tumors Osteoid osteoma Uterine adenomyosis Uterine fibroids</p> <p>Sonablate Benign prostatic hyperplasia Prostate cancer</p>	<p>Insightec Arthritis, facetogenic Bone cancer Bone metastases Bone tumors, benign Essential tremor Multiple myeloma Neuropathic pain Parkinson's disease, tremor Prostate cancer Uterine adenomyosis Uterine fibroids</p> <p>Sonablate Benign prostatic hyperplasia Prostate cancer</p>	<p>Chongqing Haifu Medical Technology Bone cancer Breast tumors, malignant Kidney tumors Liver tumors Pancreatic tumors, malignant Uterine adenomyosis Uterine fibroids</p> <p>Insightec Bone cancer Bone metastases Essential tremor Neuropathic pain Parkinson's disease, tremor Prostate cancer Uterine adenomyosis Uterine fibroids</p> <p>Profound Medical Benign prostatic hyperplasia Prostate cancer Uterine fibroids</p> <p>Sonablate Benign prostatic hyperplasia Prostate cancer</p>	<p>Chongqing Haifu Medical Technology Bone cancer Breast tumors, malignant Kidney tumors Liver tumors Pancreatic tumors, malignant Uterine adenomyosis Uterine fibroids</p>

Clinical Device Manufacturers with Regulatory Approvals

Acoustic MedSystems INC

Devices

2 Total devices		1 Approved device	
Name	Status	Treatment guidance	Planning guidance
ACOUSTx	—	Ultrasound, CT-fluoroscopy, MRI and 3D targeting	—
TheraVision	+	—	—

Approvals

1 Approved indication	1 Region	1 Country	1 Total approvals*
Indication	Region	Country	Agency and date
—	—	—	—
Soft tissue ablation, excluding prostate ¹	■ North America	United States	FDA, 2016

+ Devices with regulatory approvals.
 Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.
 * The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.
 1 Approval language does not further delineate tissue type.

Clinical Device Manufacturers with Regulatory Approvals continued

Alpinion Medical Systems CO LTD

Devices

Devices			
2 Total devices	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
Alpius 900	+	US guidance	—
VIFU2000	—	US guidance	—

Approvals

Approvals			
2 Approved indications	2 Regions	2 Countries	3 Total approvals*
Indication	Region	Country	Agency and date
Women's health			
Uterine adenomyosis	Asia	South Korea	MFDS, 2018
Uterine fibroids	Europe Asia	Europe South Korea	CE Marking, 2016 MFDS, 2014

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

Alpinion Medical Systems CO LTD continued

Clinical research

2 Indications	1 Region	1 Country	2 Sites
Indication	Region	Country	Site
Gastrointestinal			
Pancreatic tumors, malignant	1	1	1
Women's health			
Uterine fibroids	1	1	1

Clinical Device Manufacturers with Regulatory Approvals continued

Changjiangyuan Technology Development co LTD

Devices

2 Total devices		2 Approved devices			
Name	Status	Treatment guidance	Planning guidance		
NUTAS - Non-invasive Ultrasound Tumor Ablation System	+	US guidance	US guidance		
SUPER Knife-Focused Beam Therapy System	+	MR & US guidance	—		

Approvals

1 Approved indication		1 Region		1 Country		1 Total approvals*	
Indication	Region	Country	Agency and date				
—							
Tumor ablation ¹	■ Europe	Europe	CE Marking, 2012				
Tumor ablation ¹	■ Europe	Europe	CE Marking, 2018				

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

1 Approval language does not specify tumor type.

Clinical Device Manufacturers with Regulatory Approvals continued

Changjiangyuan Technology Development co LTD continued

Clinical research

<p>1 Indications</p>	<p>1 Region</p>	<p>1 Country</p>	<p>1 Sites</p>
Indication	Region	Country	Site
Women's health			
Breast tumors, malignant	1	1	1

Clinical Device Manufacturers with Regulatory Approvals continued

Chongqing Haifu Medical Technology CO LTD

Devices

27 Total devices		20 Approved devices	
Name	Status	Treatment guidance	Planning guidance
CKC100	—	Unguided	Not used
CZB	+	Other guidance	Other
CZF	+	Unguided	Not used
CZF300	—	Unguided	Not used
CZG100	—	Unguided	Not used
CZG300	—	Unguided	Not used
JC	+	US guidance	US guidance
JC-076	—	—	—
JC200	+	US guidance	US guidance
JC200A	+	US guidance	US guidance
JC200B	+	US guidance	US guidance
JC200C	+	US guidance	US guidance
JC200D	+	US guidance	US guidance
JC200D0	+	US guidance	US guidance
JC200D1	+	US guidance	US guidance
JC200D2	+	US guidance	US guidance
JC200D3	+	US guidance	US guidance
JC210	+	US guidance	US guidance
JC220	+	US guidance	US guidance
JC300	+	US guidance	US guidance
JC300P	+	US guidance	US guidance
JC300S	+	US guidance	US guidance

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

Clinical Device Manufacturers with Regulatory Approvals continued

Chongqing Haifu Medical Technology CO LTD continued

Devices continued

Name	Status	Treatment guidance	Planning guidance
JCQ-B100	+	US guidance	US guidance
JCQ-B130	+	US guidance	US guidance
JCQ-B150	+	US guidance	US guidance
LCA200	—	Unguided	Not used
LCA300	—	Unguided	Not used

Approvals

11 Approved indications	6 Regions	17 Countries	110 Total approvals*
Indication	Region	Country	Agency and date
Gastrointestinal			
Liver tumors	<ul style="list-style-type: none"> ■ North America ■ Europe ■ Europe ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ South America ■ South America ■ Middle East ■ Africa ■ Africa ■ Africa 	<ul style="list-style-type: none"> Mexico Europe Russia China Hong Kong Indonesia Malaysia South Korea Thailand Colombia Peru Saudi Arabia Kenya Nigeria Tanzania 	<ul style="list-style-type: none"> COFEPRIS, 2021 CE Marking, 2005 Roszdraznadzor, 2007 NMPA, 1999 MDD, 2019 DGPMD, 2021 MDA, 2017 MFDS, 2004 FDA, 2023 INVIMA, 2015 DIGEMED, 2020 SFDA, 2011 MOH PPB, 2023 NAFDAC, 2021 MOH, 2023

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

Chongqing Haifu Medical Technology co LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Gastrointestinal continued			
Pancreatic tumors, malignant	North America	Mexico	COFEPRIS, 2021
	Europe	Europe	CE Marking, 2005
	Europe	Russia	Roszdraznadzor, 2007
	Asia	Hong Kong	MDD, 2019
	Asia	Indonesia	DGPMD, 2021
	Asia	Malaysia	MDA, 2017
	Asia	Singapore	HSA, 2020
	Asia	South Korea	MFDS, 2004
	Asia	Thailand	FDA, 2023
	South America	Colombia	INVIMA, 2015
	South America	Peru	DIGEMED, 2020
	Middle East	Saudi Arabia	SFDA, 2011
	Africa	Kenya	MOH PPB, 2023
	Africa	Nigeria	NAFDAC, 2021
	Africa	Tanzania	MOH, 2023
Musculoskeletal			
Bone cancer	North America	Mexico	COFEPRIS, 2021
	Europe	Europe	CE Marking, 2005
	Europe	Russia	Roszdraznadzor, 2007
	Asia	China	NMPA, 1999
	Asia	Hong Kong	MDD, 2019
	Asia	Indonesia	DGPMD, 2021
	Asia	Malaysia	MDA, 2017
	Asia	South Korea	MFDS, 2004
	Asia	Thailand	FDA, 2023
	South America	Colombia	INVIMA, 2015
	South America	Peru	DIGEMED, 2020
	Middle East	Saudi Arabia	SFDA, 2011
	Africa	Kenya	MOH PPB, 2023
	Africa	Nigeria	NAFDAC, 2021
	Africa	Tanzania	MOH, 2023

Clinical Device Manufacturers with Regulatory Approvals continued

Chongqing Haifu Medical Technology co LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Musculoskeletal continued			
Soft tissue tumors, benign	■ Asia	China	NMPA, 1999
Pulmonary			
Rhinitis	■ Asia	China	NMPA, 1999
Urological			
Kidney tumors	<ul style="list-style-type: none"> ■ North America ■ Europe ■ Europe ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ South America ■ South America ■ Middle East ■ Africa ■ Africa ■ Africa 	<ul style="list-style-type: none"> Mexico Europe Russia Hong Kong Indonesia Malaysia South Korea Thailand Colombia Peru Saudi Arabia Kenya Nigeria Tanzania 	<ul style="list-style-type: none"> COFEPRIS, 2021 CE Marking, 2005 Roszdraznadzor, 2007 MDD, 2019 DGPMD, 2021 MDA, 2017 MFDS, 2004 FDA, 2023 INVIMA, 2015 DIGEMED, 2020 SFDA, 2011 MOH PPB, 2023 NAFDAC, 2021 MOH, 2023

Clinical Device Manufacturers with Regulatory Approvals continued

Chongqing Haifu Medical Technology CO LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Women's health			
Breast tumors, benign	Asia	China	NMPA, 1999
Breast tumors, malignant	North America	Mexico	COFEPRIS, 2021
	Europe	Europe	CE Marking, 2005
	Europe	Russia	Rosdravnadzor, 2007
	Asia	China	NMPA, 1999
	Asia	Hong Kong	MDD, 2019
	Asia	Indonesia	DGPMD, 2021
	Asia	Malaysia	MDA, 2017
	Asia	South Korea	MFDS, 2004
	Asia	Thailand	FDA, 2023
	South America	Colombia	INVIMA, 2015
	South America	Peru	DIGEMED, 2020
	Middle East	Saudi Arabia	SFDA, 2011
	Africa	Kenya	MOH PPB, 2023
	Africa	Nigeria	NAFDAC, 2021
Africa	Tanzania	MOH, 2023	
Cervicitis	Asia	China	NMPA, 1999
Uterine adenomyosis	North America	Mexico	COFEPRIS, 2021
	Europe	Europe	CE Marking, 2005
	Europe	Russia	Rosdravnadzor, 2007
	Asia	Hong Kong	MDD, 2019
	Asia	Indonesia	DGPMD, 2021
	Asia	Malaysia	MDA, 2017
	Asia	Singapore	HSA, 2020
	Asia	South Korea	MFDS, 2004
	Asia	Thailand	FDA, 2023
	South America	Colombia	INVIMA, 2015
	South America	Peru	DIGEMED, 2020
	Middle East	Saudi Arabia	SFDA, 2011

Clinical Device Manufacturers with Regulatory Approvals continued

Chongqing Haifu Medical Technology CO LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Women's health continued			
Uterine adenomyosis, continued	■ Africa	Kenya	MOH PPB, 2023
	■ Africa	Nigeria	NAFDAC, 2021
	■ Africa	Tanzania	MOH, 2023
Uterine fibroids	■ North America	Mexico	COFEPRIS, 2021
	■ Europe	Europe	CE Marking, 2005
	■ Europe	Russia	Rosdravnadzor, 2007
	■ Asia	China	NMPA, 1999
	■ Asia	Hong Kong	MDD, 2019
	■ Asia	Indonesia	DGPMD, 2021
	■ Asia	Malaysia	MDA, 2017
	■ Asia	Singapore	HSA, 2020
	■ Asia	South Korea	MFDS, 2004
	■ Asia	Taiwan	FDA, 2012
	■ Asia	Thailand	FDA, 2023
	■ South America	Colombia	INVIMA, 2015
	■ South America	Peru	DIGEMED, 2020
	■ Middle East	Saudi Arabia	SFDA, 2011
	■ Africa	Kenya	MOH PPB, 2023
	■ Africa	Nigeria	NAFDAC, 2021
■ Africa	Tanzania	MOH, 2023	

Clinical Device Manufacturers with Regulatory Approvals continued


Chongqing Haifu Medical Technology co LTD continued

Clinical research

11 Indications	2 Regions	6 Countries	8 Sites
Indication	Region	Country	Site
Gastrointestinal			
Liver tumors	2	4	4
Pancreatic tumors	1	1	1
Pancreatic tumors, malignant	1	3	3
Musculoskeletal			
Osteoid osteoma	1	1	1
Sacral chordoma	1	1	1
Soft tissue cancer	1	1	1
Soft tissue tumors, benign	1	3	3
Urological			
Kidney tumors	1	2	2
Women's health			
Breast tumors, malignant	1	2	2
Uterine adenomyosis	1	2	2
Uterine fibroids	2	3	4

Clinical Device Manufacturers with Regulatory Approvals continued

Chongqing Haifu Medical Technology co LTD continued

 **Chongqing Haifu**, founded in 1999, is devoted to the development, manufacturing, and sales of HIFU systems to treat solid tumors, with a total number of treated cases reaching more than 240,000 in 2023.”

— Chongqing Haifu Medical Technology co LTD

Clinical Device Manufacturers with Regulatory Approvals continued

EDAP TMS SA

Devices

Devices			
4 Total devices	2 Approved devices		
Name	Status	Treatment guidance	Planning guidance
Ablatherm	+	Image fusion	US guidance
EDAP (Prototype)	—	US guidance	US guidance
Focal One	+	Image fusion	MR guidance, US guidance, biopsies
Mfocus	—	US guidance	US guidance

Approvals

Approvals			
2 Approved indications	4 Regions	6 Countries	12 Total approvals*
Indication	Region	Country	Agency and date
Urological			
Benign prostatic hyperplasia	■ North America	United States	FDA, 2015
Prostate cancer	■ North America	Canada	Health Canada, 2003
	■ North America	United States	FDA, 2015
	■ Europe	Europe	CE Marking, 2013
	■ Europe	Russia	Rosdravnadzor, 2002
	■ Asia	South Korea	MFDS, 2002
	■ South America	Brazil	ANVISA, 2016

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

EDAP TMS SA continued

Clinical research

4 Indications	2 Regions	6 Countries	34 Sites
Indication	Region	Country	Site
Urological			
Benign prostatic hyperplasia	1	1	1
Prostate cancer	2	6	27
Women's health			
Endometriosis	1	1	1
Endometriosis, colorectal	1	1	9

EDAP TMS designs, produces, and markets medical equipment dedicated to minimally invasive therapies based on robotic therapeutic ultrasound. Our lead product, Focal One®, combines the latest technologies in imaging and treatment modalities in urology and gynecology.”

— EDAP TMS SA

Clinical Device Manufacturers with Regulatory Approvals continued


EpiSonica CORP

Devices

1 Total device	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
ArcBLATE (ARC-100M)	+	MR guidance	MR guidance

Approvals

1 Approved indication	1 Region	1 Country	1 Total approvals*
Indication	Region	Country	Agency and date
Musculoskeletal			
Soft tissue cancer	■ Asia	Taiwan	FDA, 2016

 **EpiSonica Corp** is a leading company that is focusing on development of supine and prone MRgHIFU systems. Our ArcBlate system provides treatment for uterine fibroids and uterine adenomyosis disease as well as the application of pain palliation for bone metastases.”
— EpiSonica CORP

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

EyeTechCare SA

Devices			
1 Total device	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
EyeOP1	+	Unguided	—

Approvals			
1 Approved indication	2 Regions	2 Countries	2 Total approvals*
Indication	Region	Country	Agency and date
Ophthalmological			
Glaucoma	<div style="display: flex; gap: 5px;"> ■ Europe ■ Asia </div>	Europe China	CE Marking, 2011 NMPA, 2017

Clinical research			
1 Indication	2 Regions	2 Countries	2 Sites
Indication	Region	Country	Site
Ophthalmological			
Glaucoma	2	2	2

+ Devices with regulatory approvals.
 Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.
 * The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

HistoSonics INC

Devices

1 Total device	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
Edison	+	US guidance	US guidance

Approvals

1 Approved indication	1 Region	1 Country	1 Total approvals*
Indication	Region	Country	Agency and date
Gastrointestinal			
Liver tumors	■ North America	United States	FDA, 2023

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

HistoSonics INC continued

Clinical research

2 Indications	2 Regions	5 Countries	16 Sites
Indication	Region	Country	Site
Gastrointestinal			
Liver tumors	2	5	13
Urological			
Kidney tumors	2	2	4

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD

Devices

3 Total devices	3 Approved devices		
Name	Status	Treatment guidance	Planning guidance
Exablate Body	+	MR guidance	MR guidance
Exablate Neuro	+	MR guidance	MR/CT guidance
Exablate Prostate	+	MR guidance	MR guidance

Approvals

15 Approved indications	6 Regions	30 Countries	141 Total approvals*
Indication	Region	Country	Agency and date
Musculoskeletal			
Arthritis, facetogenic	<ul style="list-style-type: none"> ■ Europe ■ Europe ■ Asia ■ Asia ■ Asia ■ Oceania 	<ul style="list-style-type: none"> Europe Russia Kazakhstan South Korea Thailand New Zealand 	<ul style="list-style-type: none"> CE Marking, 2006 Roszdraznadzor, 2017 NCEM, 2019 MFDS, 2015 FDA, 2020 MEDSAFE, 2006
Bone cancer	<ul style="list-style-type: none"> ■ Europe ■ Europe ■ Asia ■ Asia ■ Oceania ■ Middle East 	<ul style="list-style-type: none"> Europe Russia Kazakhstan Thailand New Zealand Israel 	<ul style="list-style-type: none"> CE Marking, 2006 Roszdraznadzor, 2017 NCEM, 2019 FDA, 2020 MEDSAFE, 2006 AMAR, 2008

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Musculoskeletal continued			
Bone metastases	North America	Canada	Health Canada, 2013
	North America	United States	FDA, 2012
	Europe	Belarus	MOH, 2021
	Europe	Europe	CE Marking, 2006
	Europe	Russia	Roszdraznadzor, 2017
	Asia	Kazakhstan	NCEM, 2019
	Asia	South Korea	MFDS, 2015
	Asia	Thailand	FDA, 2020
	Oceania	New Zealand	MEDSAFE, 2006
	Middle East	Kuwait	MOH FDCD, 2021
Middle East	Saudi Arabia	SFDA, 2021	
Bone tumors, benign	Europe	Europe	CE Marking, 2006
	Europe	Russia	Roszdraznadzor, 2017
	Asia	Kazakhstan	NCEM, 2019
	Asia	Thailand	FDA, 2020
	Oceania	New Zealand	MEDSAFE, 2006
Multiple myeloma	Europe	Europe	CE Marking, 2006
	Europe	Russia	Roszdraznadzor, 2017
	Asia	Kazakhstan	NCEM, 2019
	Asia	Thailand	FDA, 2020
	Oceania	New Zealand	MEDSAFE, 2006

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Neurological			
Depression	Asia	South Korea	MFDS, 2015
Essential tremor	North America	Canada	Health Canada, 2016
	North America	Mexico	COFEPRIS, 2023
	North America	United States	FDA, 2016
	Europe	Europe	CE Marking, 2012
	Europe	Russia	Rosdravnadzor, 2017
	Europe	Switzerland	Swissmedic, 2022
	Europe	United Kingdom	MHRA, 2022
	Asia	China	NMPA, 2021
	Asia	Hong Kong	MDD, 2020
	Asia	India	CDSKO, 2021
	Asia	Japan	MHLW, 2016
	Asia	Kazakhstan	NCEM, 2020
	Asia	Philippines	FDA, 2018
	Asia	Singapore	HSA, 2021
	Asia	South Korea	MFDS, 2015
	Asia	Taiwan	FDA, 2017
	Asia	Thailand	FDA, 2020
	South America	Argentina	ANMAT, 2019
	South America	Brazil	ANVISA, 2020
	South America	Chile	ANAMED, 2018
South America	Colombia	INVIMA, 2021	
South America	Peru	DIGEMED, 2021	
Oceania	Australia	TGA, 2015	
Middle East	Israel	AMAR, 2015	
Middle East	Turkey	TITUBB, 2017	
Middle East	United Arab Emirates	MOHAP, 2022	

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Neurological continued			
Neuropathic pain	■ North America	Mexico	COFEPRIS, 2023
	■ Europe	Europe	CE Marking, 2012
	■ Europe	Russia	Roszdraznadzor, 2017
	■ Europe	Switzerland	Swissmedic, 2022
	■ Europe	United Kingdom	MHRA, 2022
	■ Asia	Hong Kong	MDD, 2020
	■ Asia	India	CDSCO, 2021
	■ Asia	Kazakhstan	NCEM, 2020
	■ Asia	Philippines	FDA, 2018
	■ Asia	South Korea	MFDS, 2015
	■ Asia	Thailand	FDA, 2020
	■ South America	Argentina	ANMAT, 2019
	■ South America	Brazil	ANVISA, 2020
	■ South America	Chile	ANAMED, 2018
	■ South America	Colombia	INVIMA, 2021
	■ South America	Peru	DIGEMED, 2021
	■ Oceania	Australia	TGA, 2015
■ Middle East	Israel	AMAR, 2015	
■ Middle East	Turkey	TITUBB, 2017	
■ Middle East	United Arab Emirates	MOHAP, 2022	
Obsessive-compulsive disorder	■ Asia	South Korea	MFDS, 2015
Parkinson’s disease, dyskinesia	■ North America	United States	FDA, 2021
	■ Europe	Russia	Roszdraznadzor, 2017
	■ Asia	Japan	MHLW, 2020
	■ Asia	South Korea	MFDS, 2015

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Neurological continued			
Parkinson’s disease, tremor	North America	Mexico	COFEPRIS, 2023
	North America	United States	FDA, 2018
	Europe	Europe	CE Marking, 2012
	Europe	Russia	Roszdraznadzor, 2017
	Europe	Switzerland	Swissmedic, 2022
	Europe	United Kingdom	MHRA, 2022
	Asia	China	NMPA, 2021
	Asia	Hong Kong	MDD, 2020
	Asia	India	CDSCO, 2021
	Asia	Japan	MHLW, 2020
	Asia	Kazakhstan	NCEM, 2020
	Asia	Philippines	FDA, 2018
	Asia	Singapore	HSA, 2021
	Asia	South Korea	MFDS, 2015
	Asia	Taiwan	FDA, 2022
	Asia	Thailand	FDA, 2020
	South America	Argentina	ANMAT, 2019
	South America	Brazil	ANVISA, 2020
	South America	Chile	ANAMED, 2018
	South America	Colombia	INVIMA, 2021
	South America	Peru	DIGEMED, 2021
	Oceania	Australia	TGA, 2015
Middle East	Israel	AMAR, 2015	
Middle East	Turkey	TITUBB, 2017	
Middle East	United Arab Emirates	MOHAP, 2022	

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Urological			
Benign prostatic hyperplasia	■ North America	United States	FDA, 2021
Prostate cancer	■ North America	United States	FDA, 2021
	■ Europe	Belarus	MOH, 2021
	■ Europe	Europe	CE Marking, 2016
	■ Europe	Russia	Roszdraznadzor, 2017
	■ Asia	Kazakhstan	NCEM, 2019
	■ Asia	Thailand	FDA, 2020
	■ Oceania	Australia	TGA, 2016
	■ Oceania	New Zealand	MEDSAFE, 2016
	■ Middle East	Israel	AMAR, 2022
Women's health			
Uterine adenomyosis	■ Europe	Europe	CE Marking, 2006
	■ Asia	Kazakhstan	NCEM, 2019
	■ Asia	Thailand	FDA, 2020
	■ Oceania	New Zealand	MEDSAFE, 2006
	■ Middle East	Israel	AMAR, 2008
Uterine fibroids	■ North America	Canada	Health Canada, 2013
	■ North America	United States	FDA, 2004
	■ Europe	Belarus	MOH, 2021
	■ Europe	Europe	CE Marking, 2006
	■ Europe	Russia	Roszdraznadzor, 2006
	■ Asia	China	NMPA, 2013
	■ Asia	Japan	MHLW, 2006
	■ Asia	Kazakhstan	NCEM, 2019
	■ Asia	Singapore	HSA, 2012
	■ Asia	South Korea	MFDS, 2011
	■ Asia	Taiwan	FDA, 2006
	■ Asia	Thailand	FDA, 2020
	■ Oceania	New Zealand	MEDSAFE, 2006

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Approvals continued

Indication	Region	Country	Agency and date
Women's health continued			
Uterine fibroids continued	<ul style="list-style-type: none"> ■ Middle East ■ Middle East ■ Middle East 	Israel Kuwait Saudi Arabia	AMAR, 2003 MOH FDCD, 2021 SFDA, 2021

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Clinical research

41 Indications	5 Regions	17 Countries	84 Sites
Indication	Region	Country	Site
Gastrointestinal			
Liver tumors	1	1	2
Pancreatic tumors, malignant	1	1	1
Miscellaneous			
Head & neck tumors	1	2	2
Musculoskeletal			
Arthritis, facetogenic	2	5	6
Arthritis, knee	1	1	1
Bone cancer	1	1	2
Bone metastases	4	7	9
Bone tumors, benign	1	1	1
Osteoid osteoma	2	3	5
Soft tissue cancer	2	2	2
Soft tissue tumors, benign	2	2	2
Neurological			
Alzheimer's disease	2	3	12
Amyotrophic lateral sclerosis	1	1	1
Astrocytoma	1	1	2
Brain metastases, breast cancer	1	1	1
Brain metastases, lung cancer	1	2	5
Brain metastases, melanoma	1	1	1

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Clinical research continued


Indication	Region	Country	Site
Neurological continued			
Brain tumors, general	1	2	2
Cancer pain	1	1	1
Depression	2	2	2
Dystonia	1	3	4
Dystonia, hand	1	1	1
Epilepsy	2	3	9
Essential tremor	4	11	17
Glioblastoma	4	6	22
Neurofibromatosis	1	1	1
Neuropathic pain	1	1	1
Obsessive-compulsive disorder	1	1	2
Opioid and other addictions	1	1	1
Painful amputation neuromas	1	1	1
Parkinson's disease, dyskinesia	2	2	8
Parkinson's disease, tremor	3	8	12
Parkinson's disease, underlying cause	1	2	2
Pontine glioma	1	2	5
Tremor, orthostatic	1	1	1
Trigeminal neuralgia	1	1	1

Clinical Device Manufacturers with Regulatory Approvals continued

Insightec LTD continued

Clinical research continued

Indication	Region	Country	Site
Urological			
Prostate cancer	2	2	5
Women's health			
Endometriosis	1	1	1
Uterine adenomyosis	3	4	5
Uterine fibroids	4	11	15

 **Insightec** is a global healthcare company creating the next generation of patient care by realizing the therapeutic power of acoustic energy. Insightec is dedicated to the research and commercial application of focused ultrasound in multiple indications.”

— Insightec INC

Clinical Device Manufacturers with Regulatory Approvals continued

Profound Medical CORP

Devices

2 Total devices	2 Approved devices		
Name	Status	Treatment guidance	Planning guidance
Sonalleve	+	MR guidance	MR guidance
TULSA-PRO	+	MR guidance	MR guidance

Approvals¹

7 Approved indications	5 Regions	13 Countries	51 Total approvals*
Indication	Region	Country	Agency and date
Musculoskeletal			
Bone metastases	<ul style="list-style-type: none"> ■ North America ■ Europe ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ South America 	<ul style="list-style-type: none"> Mexico Europe Malaysia Philippines Singapore Thailand Vietnam Argentina 	<ul style="list-style-type: none"> COFEPRIS, 2018 CE Marking, 2011 MDA, 2015 FDA, 2013 HSA, 2021 FDA, 2023 DMEW, 2010 ANMAT, 2012
Desmoid tumors	<ul style="list-style-type: none"> ■ Europe ■ Asia ■ South America 	<ul style="list-style-type: none"> Europe Thailand Argentina 	<ul style="list-style-type: none"> CE Marking, 2021 FDA, 2023 ANMAT, 2022

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

Profound Medical CORP continued

Approvals continued

Indication	Region	Country	Agency and date
Musculoskeletal continued			
Osteoid osteoma	■ North America	United States	FDA, 2020
	■ Europe	Europe	CE Marking, 2020
	■ Asia	Singapore	HSA, 2021
	■ Asia	Thailand	FDA, 2023
	■ South America	Argentina	ANMAT, 2022
Urological			
Benign prostatic hyperplasia	■ North America	Canada	Health Canada, 2019
	■ North America	United States	FDA, 2019
	■ Europe	Europe	CE Marking, 2016
	■ Asia	Malaysia	MDA, 2023
	■ Asia	Philippines	FDA, 2023
	■ Asia	Singapore	HSA, 2019
	■ Asia	Thailand	FDA, 2023
	■ Middle East	Saudi Arabia	SFDA, 2018
Prostate cancer	■ North America	Canada	Health Canada, 2019
	■ North America	United States	FDA, 2019
	■ Europe	Europe	CE Marking, 2016
	■ Asia	Malaysia	MDA, 2023
	■ Asia	Philippines	FDA, 2023
	■ Asia	Singapore	HSA, 2019
	■ Asia	Thailand	FDA, 2023
	■ Middle East	Saudi Arabia	SFDA, 2018

Clinical Device Manufacturers with Regulatory Approvals continued

Profound Medical CORP continued

Approvals continued

Indication	Region	Country	Agency and date
Women's health			
Uterine adenomyosis	■ North America	Mexico	COFEPRIS, 2018
	■ Europe	Europe	CE Marking, 2010
	■ Asia	Malaysia	MDA, 2015
	■ Asia	Philippines	FDA, 2023
	■ Asia	Singapore	HSA, 2021
	■ Asia	Thailand	FDA, 2023
	■ Asia	Vietnam	DMEW, 2010
	■ South America	Argentina	ANMAT, 2012
Uterine fibroids	■ North America	Canada	Health Canada, 2013
	■ Europe	Europe	CE Marking, 2009
	■ Asia	China	NMPA, 2018
	■ Asia	Malaysia	MDA, 2015
	■ Asia	Philippines	FDA, 2023
	■ Asia	Singapore	HSA, 2021
	■ Asia	South Korea	MFDS, 2012
	■ Asia	Thailand	FDA, 2023
	■ Asia	Vietnam	DMEW, 2010
	■ South America	Argentina	ANMAT, 2012
	■ Middle East	Saudi Arabia	SFDA, 2015

Clinical Device Manufacturers with Regulatory Approvals continued

Profound Medical CORP continued

Clinical research

23 Indications	3 Regions	10 Countries	30 Sites
Indication	Region	Country	Site
Cardiovascular			
Arteriovenous malformations	1	1	1
Gastrointestinal			
Liver tumors	1	1	1
Pancreatic tumors	1	1	1
Pancreatic tumors, malignant	1	1	1
Miscellaneous			
Head & neck tumors	1	1	1
Melanoma	1	1	1
Multiple tumors ¹	1	1	1
Musculoskeletal			
Arthritis, facetogenic	1	1	1
Arthritis, sacroiliac	1	1	1
Bone cancer	2	3	4
Bone metastases	2	5	6
Bone tumors, benign	1	2	2
Desmoid tumors	1	3	4
Osteoid osteoma	2	2	2
Plantar fasciitis	1	1	1
Soft tissue cancer	2	4	4
Soft tissue tumors, benign	2	2	2

¹ Protocols inclusive of more than one indication

Clinical Device Manufacturers with Regulatory Approvals continued

Profound Medical CORP continued


Clinical research continued

Indication	Region	Country	Site
Urological			
Benign prostatic hyperplasia	1	1	1
Prostate cancer	2	6	20
Women's health			
Breast tumors, malignant	2	2	2
Uterine adenomyosis	2	3	3
Uterine fibroids	2	5	7
Vaginal tumors	1	1	1

1 Protocols inclusive of more than one indication

Clinical Device Manufacturers with Regulatory Approvals continued

Profound Medical CORP continued

 **Profound Medical** develops customizable, incision-free ablative therapies which combine real-time MRI, thermal ultrasound, autonomous robotics, and closed-loop process control to change the standard of care for physicians and patients.”

— Profound Medical CORP

Clinical Device Manufacturers with Regulatory Approvals continued

Shanghai A&S Science Technology Development co, LTD

Devices

1 Total device	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
HIFUNIT9000	+	US guidance	MR guidance

Approvals

5 Approved indications	2 Regions	4 Countries	8 Total approvals*
Indication	Region	Country	Agency and date
Gastrointestinal			
Liver tumors	■ Asia	China	NMPA, 2002
Musculoskeletal			
Bone metastases	■ Asia	China	NMPA, 2002
Soft tissue cancer	■ Asia	China	NMPA, 2002
Women's health			
Breast tumors, malignant	■ Asia	China	NMPA, 2002
Uterine fibroids	■ Europe	Europe	CE Marking, 2008
	■ Asia	China	NMPA, 2002
	■ Asia	South Korea	MFDS, 2007
	■ Asia	Thailand	FDA, 2013

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

Shanghai A&S Science Technology Development co, LTD continued

Clinical research			
1 Indication	1 Region	1 Country	1 Site
Indication	Region	Country	Site
Gastrointestinal			
Liver tumors	1	1	1

Shanghai A&S Science Technology Development is a leading company focused on high intensity focused ultrasound for tumor ablation with ultrasound guidance. Based in Shanghai, A&S has expanded business in Asia with over 200 installations.”
 — Shanghai A&S Science Technology Development co LTD

Clinical Device Manufacturers with Regulatory Approvals continued

Shanghai Shende Green Medical Era Healthcare Technology CO LTD¹

Devices

Devices			
3 Total device	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
Aceso-NIA	—	MR guidance	MR/CT guidance
Aceso-PIA	—	MR guidance	MR guidance
Aceso-UIA	+	MR guidance	MR guidance

Approvals

Approvals			
1 Approved indication	1 Region	1 Country	1 Total approvals*
Indication	Region	Country	Agency and date
Musculoskeletal			
Bone metastases	■ Europe	Europe	CE Marking, 2020

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

¹ Manufacturer was formerly known as Shende Medical Equipment Technology.

Clinical Device Manufacturers with Regulatory Approvals continued

Shanghai Shende Green Medical Era Healthcare Technology CO LTD continued

Clinical research

Clinical research			
3 Indications	1 Region	1 Country	7 Sites
Indication	Region	Country	Site
Musculoskeletal			
Bone metastases	1	1	3
Women's health			
Uterine adenomyosis	1	1	6
Uterine fibroids	1	1	5

Shende Green Medical Era was established in 2013 and is dedicated to the technical breakthrough and productization of MR-guided phased HIFU. The company focuses on the noninvasive treatment of solid tumors and diseases of the nervous system.”

— Shanghai Shende Green Medical Era Healthcare Technology CO LTD

Clinical Device Manufacturers with Regulatory Approvals continued

Shenzhen PRO-HITU Medical Technology co, LTD

Devices

5 Total devices		3 Approved devices	
Name	Status	Treatment guidance	Planning guidance
PRO2008	+	US guidance	US guidance
PRO300	+	US guidance	US guidance
PRO3008	—	US guidance	US guidance
PRO5G	+	Other guidance	Visual guidance
UT1000	—	Unguided	Not used

Approvals

4 Approved indications		2 Regions		4 Countries		10 Total approvals*	
Indication	Region	Country	Agency and date				
Women's health							
Hyperplasia of the vulva	Asia	China	NMPA, 2019				
Lichen sclerosis	Asia	China	NMPA, 2019				
Uterine adenomyosis	Asia	South Korea	MFDS, 2016				
Uterine fibroids	Europe	Europe	CE Marking, 2012				
	Asia	China	MDA, 2012				
	Asia	Taiwan	FDA, 2018				

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

Shenzhen PRO-HITU Medical Technology co, LTD continued

Clinical research

2 Indications	1 Region	1 Country	4 Sites
Indication	Region	Country	Site
Women's health			
Uterine adenomyosis	1	1	3
Uterine fibroids	1	1	3

Shenzhen PRO-HITU Medical Technology was established in 2003, focusing on R&D of large ultrasonic treatment equipment. Vision: The pioneering of noninvasive therapy. Mission: Respect life in therapy.”
 — Shenzhen PRO-HITU Medical co, LTD

Clinical Device Manufacturers with Regulatory Approvals continued

Sonablate CORP

Devices

2 Total devices	2 Approved devices		
Name	Status	Treatment guidance	Planning guidance
Sonablate	+	US guidance	MR/US fusion
Sonatherm	+	US guidance	US guidance

Approvals

2 Approved indications	6 Regions	22 Countries	41 Total approvals*
Indication	Region	Country	Agency and date
Urological			
Benign prostatic hyperplasia	<ul style="list-style-type: none"> ■ North America ■ North America ■ North America ■ North America ■ Europe ■ Europe ■ Europe ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia 	<ul style="list-style-type: none"> Canada Costa Rica Dominican Republic United States Europe Russia United Kingdom China Hong Kong India Japan Macau Malaysia South Korea 	<ul style="list-style-type: none"> Health Canada, 2005 Ministerio de Salud, 2005 MISPAS, 2005 FDA, 2006 CE Marking, 2001 Roszdraznadzor, 2005 MHRA, 2019 NMPA, 2022 MDD, 2018 CDSCO, 2011 MHLW, 2001 ISAF, 2020 MDA, 2021 MFDS, 2016

+ Devices with regulatory approvals. Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

Sonablate CORP continued

Approvals continued


Indication	Region	Country	Agency and date
Urological continued			
Benign prostatic hyperplasia con't.	■ South America	Argentina	ANMAT, 2006
	■ South America	Colombia	INVIMA, 2015
	■ South America	Ecuador	ANRCVS, 2011
	■ South America	Trinidad and Tobago	Ministry of Health, 2012
	■ Oceania	Australia	TGA, 2005
	■ Middle East	United Arab Emirates	MOHAP, 2022
Prostate cancer	■ North America	Bahamas	Ministry of Health, 2007
	■ North America	Canada	Health Canada, 2005
	■ North America	Costa Rica	Ministerio de Salud, 2005
	■ North America	Dominican Republic	MISPAS, 2005
	■ North America	United States	FDA, 2006
	■ Europe	Europe	CE Marking, 2001
	■ Europe	Russia	Rosdravnadzor, 2005
	■ Europe	United Kingdom	MHRA, 2019
	■ Asia	China	NMPA, 2020
	■ Asia	Hong Kong	MDD, 2018
	■ Asia	India	CDSCO, 2011
	■ Asia	Macau	ISAF, 2020
	■ Asia	Malaysia	MDA, 2021
	■ Asia	South Korea	MFDS, 2016
	■ Asia	Taiwan	FDA, 2020
	■ South America	Argentina	ANMAT, 2006
	■ South America	Colombia	INVIMA, 2015
	■ South America	Ecuador	ANRCVS, 2011
	■ South America	Trinidad and Tobago	Ministry of Health, 2012
	■ Oceania	Australia	TGA, 2005
	■ Middle East	United Arab Emirates	MOHAP, 2022

Clinical Device Manufacturers with Regulatory Approvals continued

Sonablate CORP continued

Clinical research

6 Indications	3 Regions	5 Countries	14 Sites
Indication	Region	Country	Site
Gastrointestinal			
Colorectal tumors	1	1	2
Urological			
Prostate cancer	3	5	14
Women's health			
Cervical tumors	1	1	2
Endometrial tumors	1	1	1
Ovarian tumors	1	1	1
Vaginal tumors	1	1	1

 **Sonablate** is a world leader in minimally invasive focused ultrasound technologies. Sonablate Corp. is committed to developing focused ultrasound related technologies that support precise and innovative medical procedures.”

— Sonablate CORP

Clinical Device Manufacturers with Regulatory Approvals continued

Theraclion SA

Devices

2 Total devices	2 Approved devices		
Name	Status	Treatment guidance	Planning guidance
Echopulse	+	US guidance	US guidance
SONOVEIN	+	US guidance	Not used

Approvals

3 Approved indications	2 Regions	8 Countries	19 Total approvals*
Indication	Region	Country	Agency and date
Cardiovascular			
Varicose veins	<ul style="list-style-type: none"> ■ Europe ■ Asia ■ Asia 	<ul style="list-style-type: none"> Europe Hong Kong Singapore 	<ul style="list-style-type: none"> CE Marking, 2019 MDD, 2021 HSA, 2019
Endocrine disorders			
Thyroid nodules	<ul style="list-style-type: none"> ■ Europe ■ Europe ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia 	<ul style="list-style-type: none"> Europe Russia Hong Kong Malaysia Singapore South Korea Taiwan Thailand 	<ul style="list-style-type: none"> CE Marking, 2007 Roszdraznadzor, 2017 MDD, 2007 MDA, 2019 HSA, 2016 MFDS, 2017 FDA, 2019 FDA, 2019

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Clinical Device Manufacturers with Regulatory Approvals continued

Theraclion SA continued

Approvals continued

Indication	Region	Country	Agency and date
Women's health			
Breast tumors, benign	<ul style="list-style-type: none"> ■ Europe ■ Europe ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia ■ Asia 	<ul style="list-style-type: none"> Europe Russia Hong Kong Malaysia Singapore South Korea Taiwan Thailand 	<ul style="list-style-type: none"> CE Marking, 2012 Roszdraznadzor, 2017 MDD, 2012 MDA, 2019 HSA, 2016 MFDS, 2017 FDA, 2018 FDA, 2019

Clinical research

11 Indications	2 Regions	4 Countries	9 Sites
Indication	Region	Country	Site
Cardiovascular			
Varicose veins	2	4	5
Gastrointestinal			
Esophageal tumors	1	1	1
Gastric tumors	1	1	1
Miscellaneous			
Melanoma	1	1	1
Multiple tumors ¹	1	1	1


¹ Protocols inclusive of more than one indication

Clinical Device Manufacturers with Regulatory Approvals continued

Theraclion SA continued

Clinical research continued

Indication	Region	Country	Site
Pulmonary			
Lung cancer	1	1	1
Urological			
Prostate cancer	1	1	1
Women's health			
Breast tumors, benign	1	1	3
Breast tumors, malignant	1	1	1
Cervical tumors	1	1	1
Ovarian tumors	1	1	1

 **Theraclion** is a French MedTech company developing robotic platforms treating extracorporeally through the innovative use of High Intensity Focused Ultrasound (HIFU): SONOVEIN® for varicose veins and Echopulse® for breast fibroadenoma and thyroid nodules.”

— Theraclion SA

Clinical Device Manufacturers with Regulatory Approvals continued

Theraclion SA - Veterinary Medicine

Devices

1 Total device	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
Echopulse	+ ¹	US guidance	US guidance

Clinical research

1 Indication	1 Region	1 Country	1 Site
Indication	Region	Country	Site
Feline			
Soft tissue cancer	1	1	1

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5. .

¹ Veterinary devices are not subject to regulatory review.

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Clinical Device Manufacturers with Regulatory Approvals continued

TOOsonix A/s

Devices

2 Total devices	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
System ONE-M	+	Image fusion	Visual guidance
System ONE-R	—	Image fusion	Visual guidance

Approvals

0 Approved indications ¹	1 Region	1 Country	0 Total approvals* ¹
Indication	Region	Country	Agency and date
—	■ Europe	Europe	CE Marking, 2020

+ Devices with regulatory approvals.

Companies in this section can have approval for more than one indication from a given regulatory agency. To see a breakdown of the regional approvals, indications, and timelines, see charts starting on p. IX.5.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.


¹ This device is currently approved for aesthetic indications, which are not tracked by the Foundation.

Clinical Device Manufacturers with Regulatory Approvals continued

TOOsonix s/A continued

Clinical research

4 Indications	2 Regions	4 Countries	5 Sites
Indication	Region	Country	Site
Miscellaneous			
Actinic keratosis	1	2	2
Basal cell carcinoma	1	2	3
Kaposi's sarcoma	1	1	1
Neurological			
Neurofibromatosis	1	1	1

 **TOOsonix** is a Danish medical device company committed to the field of dermatology. Our CE marked 20 MHz HIFU systems deliver noninvasive ultrasound to target areas in the human skin, destroying target tissue, while surrounding tissue remains unharmed.”

— TOOsonix A/S

Clinical Device Manufacturers with Regulatory Approvals continued

Wuxi Haiying Electronic Medical Systems CO, LTD

Devices

1 Total device	1 Approved device		
Name	Status	Treatment guidance	Planning guidance
HY2900	+	US guidance	—

Approvals

1 Approved indication	1 Region	1 Country	1 Total approval*
Indication	Region	Country	Agency and date
Women's health			
Uterine fibroids	■ Asia	China	NMPA, 2016

+ Devices with regulatory approvals.

* The product of the number of approving agencies and the number of indications defined therein. More than one device may be approved for the same indication.

Approved Clinical Devices

Acoustic MedSystems

TheraVision

No image

Alpinion Medical Systems

Alpius 900

Uterine adenomyosis
Uterine fibroids



As ambassadors for the technology to the broader public audience, we often get asked what focused ultrasound medical devices look like. This is a photographic index of focused ultrasound devices that are commercially available. The photos included were provided by the manufacturers. If there is no image, we could not secure a photo of the device by the publication date.

Approved Clinical Devices continued

Changjiangyuan Technology Development

NUTAS -
Non-invasive Ultrasound Tumor
Ablation System

No image

SUPER Knife -
Focused Beam Therapy System

No image

Approved Clinical Devices continued

Chongqing Haifu Medical Technology

CZB
Rhinitis



CZF
Cervicitis

No image

Approved Clinical Devices continued

Chongqing Haifu Medical Technology continued

JC

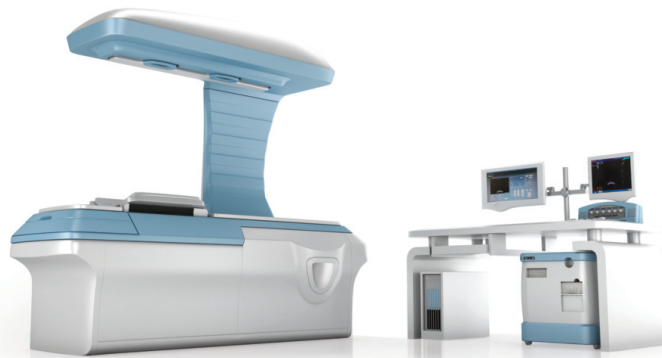
Bone cancer
Breast tumors, benign
Breast tumors, malignant
Kidney tumors
Liver tumors
Pancreatic tumors, malignant
Soft tissue tumors, benign
Uterine adenomyosis
Uterine fibroids



JC200 series

Includes JC200, JC200A, JC200B, JC200C, JC200D, JC200D0, JC200D1, JC200D2, JC200D3, JC210, JC220

Bone cancer
Breast tumors, benign
Breast tumors, malignant
Kidney tumors
Liver tumors
Pancreatic tumors, malignant
Soft tissue tumors, benign
Uterine adenomyosis
Uterine fibroids



JC300 series

Includes JC300, JC300P, JC300S

Bone cancer
Breast tumors, benign
Breast tumors, malignant
Kidney tumors
Liver tumors
Pancreatic tumors, malignant
Soft tissue tumors, benign
Uterine adenomyosis
Uterine fibroids



Approved Clinical Devices continued

Chongqing Haifu Medical Technology continued

JCQ-B series

Includes JCQ-B100, JCQ-B130,
JCQ-B150

- Bone cancer
- Breast tumors, benign
- Breast tumors, malignant
- Kidney tumors
- Liver tumors
- Pancreatic tumors, malignant
- Uterine adenomyosis
- Uterine fibroids



Approved Clinical Devices continued

EDAP TMS

Ablatherm

Benign prostatic hyperplasia
Prostate cancer



Focal One

Benign prostatic hyperplasia
Prostate cancer



Approved Clinical Devices continued

EpiSonica

ArcBLATE (ARC-100M)

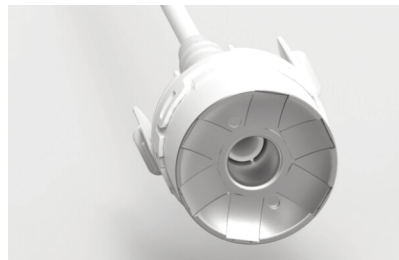
Soft tissue cancer



EyeTechCare

EyeOP1

Glaucoma



Approved Clinical Devices continued

Insightec

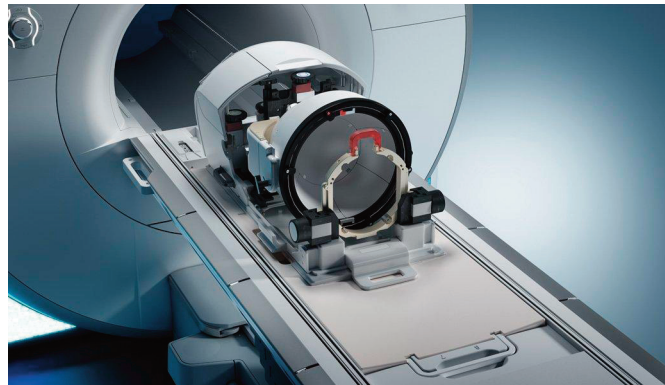
Exablate Body

Arthritis, facetogenic
Bone cancer
Bone metastases
Bone tumors, benign
Multiple myeloma
Prostate cancer
Uterine adenomyosis
Uterine fibroids



Exablate Neuro

Depression
Essential tremor
Neuropathic pain
Obsessive-compulsive disorder
Parkinson's disease, dyskinesia
Parkinson's disease, tremor



Exablate Prostate

Benign prostatic hyperplasia
Prostate cancer



Approved Clinical Devices continued

Profound Medical

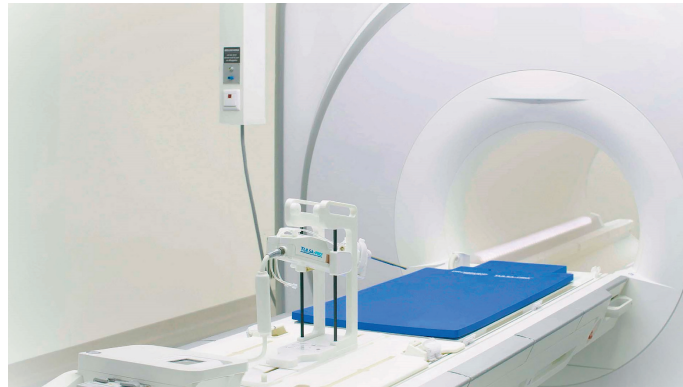
Sonalleve

Bone metastases
Desmoid tumors
Osteoid osteoma
Uterine adenomyosis
Uterine fibroids



TULSA-PRO

Benign prostatic hyperplasia
Prostate cancer

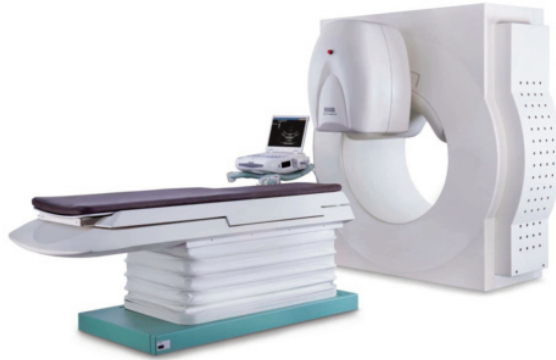


Approved Clinical Devices continued

Shanghai A&S Science Technology Development

HIFUNIT9000

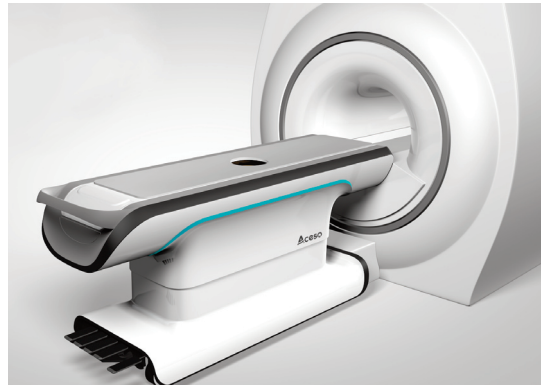
Bone metastases
Breast tumors, malignant
Liver tumors
Soft tissue cancer
Uterine fibroids



Shanghai Shende Green Medical Era Healthcare Technology

Aceso

Bone metastases



Approved Clinical Devices continued

Shenzhen PRO-HITU Medical Technology

PRO2008

Uterine adenomyosis
Uterine fibroids



PRO300

Uterine fibroids



PRO5G

Hyperplasia of the vulva
Lichen sclerosis



Approved Clinical Devices continued

Sonablate

Sonablate

Benign prostatic hyperplasia
Prostate cancer



Sonatherm

Benign prostatic hyperplasia
Prostate cancer



Approved Clinical Devices continued

Theraclion

Echopulse

Breast tumors, benign
Thyroid



SONOVEIN

Varicose veins



FUS MANUFACTURERS

Approved Clinical Devices continued

TOOsonix

System ONE-M



Wuxi Haiying Electronic Medical Systems

HY2900

Uterine fibroids

No image

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