

V Overview	
 Historical perspective of HIFU 	
 HIFU physics 	Clinical HIFU
 Ultrasound generation 	– Vendors
 Wave propagation 	 Indications
 Absorption, refraction, and focusing 	 Clinical trials
 Tissue interaction and 	
bioeffects	
 Mechanical effects 	
 Thermal effects 	2





























































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Clinical HIFU System Vendors

- Acublate
- Alpinion
- Haifu
- EDAP-TMS
- EyeTechCare
- HistoSonics
- InSightec
- Kona Medical

- Mirabilis Medica
- Philips
- Profound
- Shanghai A&S
- Slender Medical
- SonaCare Medical

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Theraclion

Current Clinical Activity FDA approved applications Uterine fibroids Uterine fibroids Bone mets Completed and active clinical trials Neuropathic pain (12 patients) Essential tremor (97 patients) Parkinson's (Tremor, Gpi) (34 patients) Brain tumors, OCD, Depression, Dystonia, prostate, pancreas, osteoid osteoma, osteoarthritis, liver, kidney...



