

ExAblate[®] 2000

Safe delivery of targeted treatment
for Uterine Fibroids



ExAblate benefits:

- Non-invasive uterus sparing treatment
- Real-time monitoring and control for optimized targeted treatment
- Outpatient setting - no GA (General Anesthesia) - no hospitalization
- Installed in over 70 hospitals worldwide
- FDA and CE approved for safe and effective treatment of uterine fibroids

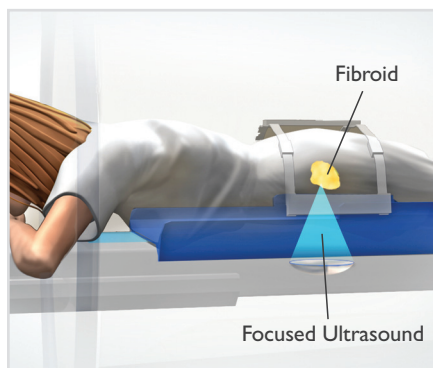
MR guided focused ultrasound combines high intensity focused ultrasound that heats and destroys targeted tissue, non-invasively and Magnetic Resonance Imaging (MRI) to identify and target tumors, providing temperature monitoring of the treated tissue in real-time.

ExAblate 2000

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ExAblate patient table



Focused Ultrasound generates heat by focusing ultrasound waves, ablating tissue only at the focal point

System components

Patient table

The patient table contains the focused ultrasound transducer along with the mechanical positioning unit that moves the transducer. Prior to treatment, the patient table is docked to the MR scanner and replaces the diagnostic table.

Equipment cabinet

The equipment cabinet contains the electrical components of the system and the main power switch.

Operator console

The operator console allows the operator to control and monitor both the system and the treatment. It is positioned alongside the GE SIGNA workstation in the operator's room.

Cooling system

The cooling system incorporates a semi-closed water circulation loop designed to keep the fluid in the transducer bath at an optimally low temperature during operation.

Accessories

- Pelvic imaging coil
- Patient mattresses

Consumables

- Patient treatment kits

Operational specifications

Focused ultrasound transducer system

- Phased array transducer with 208 transmitting elements + 3 receiving elements for cavitation detection
- Amplitude and phase of each transmit channel is digitally controlled and monitored
- Operates at range of 0.9 to 1.3 MHz with controlled power
- Four degrees of motion: lateral movement and tilt in superior-inferior and left-right directions enabling wide access
- Focal depth is controlled electronically and ranges from 1 to 14 cm in tissue
- Focal spot size varies from 8x2x2mm³ to 10x10x45mm³

Main software features

Accurate planning

- Treatment planning is performed on diagnostic MR images which show the tumor and surrounding organs
- System calculates volume of tissue to be treated and plans the number of treatment spots required

Thermal feedback

- MR thermometry for real-time temperature feedback showing temperature changes during treatment and ability to change parameters

Visualization

- Precise identification of targeted anatomy
- Visualization of beam path for plane verification
- Clear difference between treated and non-treated area

Precise targeting

- Imaging in 3 orientations for precise tumor targeting

Electrical requirements:

Operator workstation powered from 50/60 Hz, 115VAC

Compatibility

GE 1.5T, 3.0T MR Imaging systems, running current GE supported software
Power Distribution Unit (PDU) powered from mains 3 phases 480/400/208VAC, 10 KVA

System dimensions

Patient table dimensions: 246x76x117 cm (97x30x46 in)

Operator console: 45x37x47 cm (17.7x14.6x18.5 in)

Cooling system: 54x62.5x25.4 cm (21.3x24.6x10 in)

Caution: federal law restricts this device to sale by or on the order of a physician

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