Unique non-invasive Robotic surgical tool

ROBOTIC HIFU ABLATION FOR PROSTATE TISSUE
State-of-the-art Ablatherm® HIFU technology

- Non-invasive
- Precise
- Repeatable
- Radiation free
- Truly robotic

3D imaging

- 3D imaging of the prostate with 7.5MHz transducer

Treatment planning

- Fully adjustable ablation parameters to suit all prostate anatomies

Robotic ablation

- Robotic ablation of the prostate following the treatment plan
**High Intensity Focused Ultrasound principles**

- Thermal effect: fast temperature rise above 80°C
- Mechanical effect: generation and collapse of gas bubbles, ruptures cell walls
- Immediate coagulation necrosis followed by fibrosis

**Automated Safety Features**

1. **Rectal cooling system**
   - Active liquid cooling
   - Real-time monitoring of rectal wall temperature
   - Prevention of fistulas

2. **External patient movement detector**
   - Movements are monitored in real-time
   - Treatment is stopped automatically if a movement is detected

3. **Fistula prevention with rectal wall monitoring**
   - Ultrasound image recognition monitors rectal wall for movements
   - Treatment automatically stops if position becomes concerning
Global leader in therapeutic ultrasound and present in the market for more than 35 years, EDAP TMS develops, manufactures, promotes and distributes minimally-invasive medical devices for urology using ultrasound technology. EDAP TMS is actively operating worldwide via an extensive network of corporate offices, subsidiaries and distribution partners. By constantly investing in Research & Development and partnering with internationally renowned medical research institutions, EDAP TMS has developed a strong valuable patent portfolio based on its innovative technologies. With its complete range of Robotic HIFU devices, EDAP TMS is the most innovative company in minimally-invasive treatment for localized prostate cancer. By combining the latest technologies in imaging and treatment modalities, EDAP TMS just introduced the Focal One® as the answer to all requirements for ideal focal therapy of prostate cancer as a complement to the existing Ablatherm® HIFU. As a pioneer and key player in the field of extracorporeal lithotripsy (ESWL), EDAP TMS introduced the first modular lithotripter. The latest generation of shock wave source is utilized exclusively by EDAP TMS in its Sonolith® range of ESWL systems (Sonolith® i-sys and Sonolith® i-move).