Innovative Excellence

With over 15 years of endoscopic procedural experience and validated effectiveness and safety, the Disc-FX® System combines an effective and innovative approach. elliquence strives to provide intuitive and precise surgical instruments that offer reproducible results for successful outcomes.

Clinical References

A Proven Approach to Minimally Invasive Discectomy

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“We found temperatures around 37.6°C in the posterior annulus, showing great security with this procedure. Weight loss around 1.37 grams, confirmed the accuracy of this technique compared with open procedures. Finally, the shrinkage had values around 2.18 mm during a 10 seconds temperature treatment.”

Thermal effect of RF on Intervertebral Discs – World Congress of Minimally Invasive Spine Surgery, May 2010 - J. A. Barreto, J. E. Ramirez

“Percutaneous nucleotomy is an effective and safe alternative to open disc surgery in the treatment of patients with a small prolapsed or a small protrusion who have not responded to conservative treatment. The low frequency of reoperation among these patients strongly suggests that they were properly selected to be treated by percutaneous nucleotomy.”

Long-Term Outcome of Patients who Underwent Percutaneous Nucleotomy for Lumbar Disc Herniation: Results after a Mean Follow-up of 5 Years - Acta Neurochirurgica (Wien) (1998) 140: 108-113 - E. Kotilainen, S. Valtonen
Safely, Rapidly and Effectively Treat Discogenic Pathologies

- The Patented Surgi-Max® Radiowave energy offers two unique waveforms with distinct tissular effects; RF Thermal Ablation and Modulation
- The navigational Trigger-Flex® device enables multiple pathology treatment via a postero-lateral discographic approach
- Precision-designed instrumentation allowing for simplified discectomies

**Multiple Treatment Options in System**

1. **Nucleus Decompression/Discectomy**
   - Grasping forceps are used to manually remove excess nucleus material through a 3mm cannula
   - Nucleus material can be collected and sampled for pathology. Doctors generally remove 1-2 grams of nucleus pulposus

2. **Nucleus Ablation**
   - Using the Patented Surgi-Max® Radiowave energy source, a safe and precise ablation of the nucleus can be performed thus vaporizing nucleus material
   - Nucleus Ablation helps to further break down the nucleus, allowing free fragments to be removed manually
   - Nucleus Ablation augments Manual Discectomy

3. **Annulus Modulation**
   - Due to steerability characteristics of the Trigger-Flex® device, the energy can be directed to the annular wall, effectively treating pain receptors, sealing annular fissures and shrinking the annular wall

4. **Visualization**
   - An endoscope can be used to view and confirm extent of nucleus decompression, removal of inflammatory and granulation tissue

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The Patented Disc-FX® System was designed to be operated exclusively with the elliquence Surgi-Max® family of Radiowave devices.