EDAP TMS is the leader in therapeutic ultrasound. Having been present in the market for 30 years, EDAP TMS (NASDAQ: EDAP) develops minimally-invasive therapeutic solutions for urology.

By consistently investing in research and development and by forming partnerships with internationally-reowned medical research institutions, EDAP TMS has been able to patent innovative technologies.

EDAP TMS is present in many countries via an extensive network of Subsidiaries and Distribution Partners. The Company focuses on promoting a high standard of service for health care practitioners: mobile equipment, training centers and a far-reaching maintenance network.

With Ablatherm® HIFU, EDAP TMS is the world leader in High Intensity Focused Ultrasound (HIFU) for localized prostate cancer treatment. The company is currently adapting this technology so that it is potentially able to treat other types of tumors.

As a pioneer and key player in the field of extracorporeal lithotripsy, EDAP TMS introduced the first modular lithotripter and owns the patent for Electroconductive® technology, utilized in its Sonolith® range of ESWL systems.

EDAP TMS focuses every day on delivering technologies that guarantee positive outcomes which are replicable, with few side effects and a preserved quality of life.

www.edap-tms.com
EDAP TMS has an impressive track record of thirty-five years of innovation in Therapeutic Ultrasound with a particular focus on ESWL and HIFU (High Intensity Focused Ultrasound). Through technological, conceptual and clinical breakthroughs, EDAP TMS has revolutionized ESWL: the first patient membrane interface (replacing the bathtub), piezo-electric technology, in-line Ultrasound imaging and the modular lithotriptor concept were all introduced by EDAP TMS.

A recent addition to an already impressive patent portfolio, developed in conjunction with the INSERM, the French National Institute of Health and Medical Research, is ElectroConductive Lithotrispy (“ECL”). ECL is proprietary to EDAP TMS and utilized on all of its lithotripters.

Worldwide presence for the fastest growing network of users
Electroconductive technology: the new standard in ESWL

The finest fragmentation

The attributes look for in modern shockwave technology are not only the ability to fragment stones, but more critically, the ability to do so wherever possible in a single sitting without the patient returning for retreatment and also to avoid steinstrasse. The unique and patented Electroconductive technology (ECL) utilized in the Sonolith® i-sys is endowed with just the right combination of high pressure and focal size adaptability to pulverize stones into fragments small enough to be eliminated naturally. The comparison below of residual fragments after the in-vitro fragmentation of a phantom stone (left) using an electromagnetic shockwave generator (middle) and the Sonolith® i-sys ECL source (right) provides clear evidence of finer fragmentation... achieved with fewer shocks.

The best clinical results

EDAP TMS Electroconductive technology is clinically proven superior compared to other existing technologies:

- **Powerful and reliable principle**
  - All electrical discharges are identical,
  - The origin (F1) of every shockwave is consistent,
  - Every shockwave is perfectly focused at the same point (F2).

- **Uniform efficacy on all stone types and sizes**
  - Extensive range of settings
  - Variable energy density
  - Variable focal volume

- **Technology**
  - **Automatic Pressure Regulator**
    - Measures and adjusts in real time the pressure at the focal point. This system ensures consistency shock after shock so every patient benefits from the same treatment quality, month after month.

- **Exclusive by EDAP TMS**
  - **Variable focal volume**

- **Electroconductive shockwave source**
  - **Electrical discharges**

- **Sonolith® Electroconductive technology**

- **Lowest retreatment rate**

- **Finest fragmentation**

"The results of treatments with the Sonolith® Electroconductive technology should be regarded as the new benchmark for the comparative assessment of new-generation lithotripters."

Dr. David A. Tolley - The Scottish Lithotriptor Centre, Western General Hospital, Edinburgh - UK
Designed with the patient in mind

Leave no stone unturned
The unique design of the DIATRON IV generator adapts to any situation and to any patient:
• Treatment depth up to 210 mm adapted to your obese population,
• Easy reach of lower ureteric stones,
• 290 mm wide aperture for patient comfort and diffusion of pain at patient skin,
• 80° angle of aperture for larger acoustic window,
• Flexible silicone membrane inflates and deflates to accommodate all types of patients: pediatrics, bariatrics, etc.

X-Ray isocentric robotized movements
• The Sonolith® i-sys is equipped with a high-power 15 kW generator and high-resolution 23 or 31 cm Image Intensifier with latest technology 1k2 camera to image every patients.
• Some clinical situations require lateral projections, other transverse ones. Thanks to its motorized isocentric movements, in both projections, the focal point is always maintained in the center of the field of view.

The appropriate generator position
The motorized movement of the generator allows easy pinpoint positioning every time:
• To find the best acoustic window,
• To avoid gas pockets,
• To treat from the side, from below or from any intermediate position to adapt to the patient and his clinical condition.

“We finally have the ability to treat kidney stones on children as well as ureteric stones on obese patients with a single lithotriptor.”
Pr. Xavier Martin - Head of Urology Department Edouard Herriot University Hospital, Lyon - France
Stone Locking System

**Scan**
the patient with ultrasound in hand and/or with robotized X-Ray

**Touch**
the stone displayed on screen. The stone is automatically positioned at the focal point by the motorized patient support

**Treat**
with the desired parameters for fine and effective stone fragmentation

**Track**
in real-time the stone fragmentation with the ultrasound probe on its support or with X-Ray. Always stay on target with the 3D reconstruction

**Stone localization and treatment**

Never has a lithotripter been so operator-friendly. With the Sonolith® i-sys, there is no need to choose one imaging modality over the other. Shockwave generation, X-ray and Ultrasound imaging can all be performed simultaneously. No more dilemmas.

**Simultaneous dual imaging and treatment**

The stereotactic lithotripsy

- End of the inline/outline debate
- Natural, easy and unrestrained stone exploration
- Smooth and precise localization with no movement limitation
- Ability to seek the best acoustic window
- Radiation free treatment
- Real-time follow-up during treatment

**The stereotactic lithotripsy**

The "streakline" ultrasound localization system

**Stone Locking System**

**Scan**
the patient with ultrasound in hand and/or with robotized X-Ray

**Touch**
the stone displayed on screen. The stone is automatically positioned at the focal point by the motorized patient support

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with the desired parameters for fine and effective stone fragmentation

**Track**
in real-time the stone fragmentation with the ultrasound probe on its support or with X-Ray. Always stay on target with the 3D reconstruction
Sonolith® i-sys
An integrated and connected platform

Ergonomics and connectivity
Healthcare providers of the twenty-first century face new challenges to get the most out of new technology. The Sonolith® i-sys is DICOM 3.0 compatible thereby allowing free-flowing transfer of data and images between devices and the hospital server.

Endo-urological procedures
With a three-side access endo-urological table, a carbon top and a full range of accessories, the Sonolith® i-sys doubles up as a true endo-urological workstation.

Safety
In order to minimize exposure for the medical staff, Sonolith® i-sys can be entirely controlled from a mobile remote console behind a protective panel or from a control desktop in an adjacent room. All steps of the ESWL treatment can be operated remotely: patient database, X-ray, C-arm movements, table displacement and treatment parameters settings. ESWL has never been so easy, safe and efficient.