

Microsulis Medical's ablation device used in first microwave assisted robotic liver resection

DENMEAD, ENGLAND: Microsulis Medical Ltds high powered, percutaneous microwave needle - the Accu2i pMTA applicator - has become the first ablation device of its kind documented to play a crucial role in a liver resection using the da Vinci Surgical System.

Microsulis is a medical device developer specialising in minimally invasive microwave technology for the coagulation, or destruction, of soft tissue. Clinicians have successfully used the companys devices to coagulate tissue in the liver, lung, kidney and bone.

The recent hepatectomy involving the da Vinci Surgical System and Accu2i pMTA was carried out by Dr Adrian Legaspi, MD, at Mount Sinai Medical Center, Florida.

The patient, a 60-year-old female, presented with a liver lesion measuring 3.5cm. Dr Legaspi used the da Vincis state-of-the-art robotic technology to operate through tiny incisions in the patients abdomen. Using intra-operative ultrasound and direct visual guidance he located the target coagulation zones and used the da Vinci system to place the Accu2i pMTA along the line he intended to cut in order to minimise blood loss. In total he conducted six 120 watt, two minute burns.

Dr Legaspi then proceeded to cut out the lesion with minimal blood loss while carrying out three further two minute burns at 180 watts. At the end of the operation the removed tissue measured approximately 5.5cm, providing an excellent margin, and the collection canister was empty, with only trace amounts of blood in the suction tubing. In total, the patient was in theatre for two and half hours.

After the case Dr Legaspi said: "I feel that the capability of pre-coagulation with microwave ablation for robotic surgery is going to help reduce operative time and improve patient outcomes."

Stuart McIntyre, Chief Executive of Microsulis Medical Ltd, said: "We are delighted that the versatility of the Accu2i pMTA applicator has been highlighted as part of this technologically advanced, minimally invasive procedure."

The Accu2i pMTA applicator – part of the Acculis Microwave Tissue Ablation (MTA) system - is the most powerful soft tissue ablation product available, combining extreme ease of use with the widest range of clinical applications. It is a single high power, high frequency 2.45GHz, saline-cooled needle that is between three to 10 times faster than other devices. It can coagulate tissue masses of up to 5.6cm in size in just six minutes.

Mount Sinai Medical Center is the largest private independent teaching hospital in

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South Florida and has used Microsulis Medicals Acculis MTA system since April 2011.

Dr Legaspi is working on a full write up of this liver resection case for publication in the near future.

Microsulis microwave tissue ablation devices have been used in more than 100 hospitals world-wide. For more information, go to: www.microsulis.com.

About Microsulis Medical

We are a specialist medical device company with market leading, game changing solutions in microwave ablation. Our products deliver significant technological and clinical advances to physicians and patients in minimally invasive, soft tissue ablation. The Accu2i pMTA applicator was CE-marked in February 2010, FDA 510(k) cleared in August 2010, approved for use in Australia and New Zealand in August 2010, and gained a Health Canada license in January 2011. We are a UK-based company, marketing our products on five continents. For more information about the Acculis MTA system visit: www.microsulis.com.

Posted by Sean Fenske, Editor-in-Chief, MDT

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