QUARTER 1
JANUARY – MARCH 2006

GYTECH QUARTERLY

Vessel Sealing with Smart Electrode Technology and Nanoscale RF Control

Vessel sealing requires controlled pressure and heat. The SurgRx™ EnSeal™ System incorporates Smart Electrode Technology and high compression jaw design to provide secure, rapid vessel sealing with virtually no unwanted thermal effects. It is the first and only system that controls energy deposition at the electrode-tissue interface

Tissue-Dynamic Energy Delivery

With Smart Electrode Technology, EnSeal™ Instruments adjust and dose energy simultaneously to various tissues each with its own impedance characteristics. This proprietary electrode consists of millions of nanometre-sized conductive particles embedded in a temperature sensitive material. Each particle acts like a discrete thermostatic switch to regulate the amount of current that passes into the tissue area with which it is in contact. EnSeal™ works equally well when sealing arteries, veins, and transecting fatty tissue, small ligaments and connective tissue.

Virtually No Sparking, Sticking or Charring

To prevent the temperature from rising to potentially damaging (sparking) levels, each particle interrupts current flow to its specific tissue area. When the temperature dips below the optimal sealing level, the individual particle switches back on, reinstating current flow and heat deposition. The process continues until the entire tissue segment within the jaws is uniformly sealed without charring or sticking.

Rapid and Secure Vessel Sealing

When EnSeal™ instruments grasp and compress tissue, the current and heat are directed only to the tissue segment captured within the jaws. Sealing and transection are accomplish in one step. Less heat is required to accomplish sealing as the tissue volume is minimised during compression. The vessel walls are sealed through compression, protein denaturalization, and then renaturalization. The unique combination of controlled heat deposition combined with consistent high compression to vessel walls results in high seal strengths in vessels that range from less than 1mm to 7mm. Sealed vessels are capable of withstanding greater than seven times normal systolic pressure.

Restricted Thermal Envelope

A bi-polar electrode configuration restricts the electromagnetic field within the jaw minimizing collateral RF thermal effect to adjacent tissue, allowing surgeons to seal tissues in close proximity to sensitive organs.

High Compression Jaw

The cutting mechanism of the EnSeal™ instrument is in the shape of an “I-Beam”. Very high compression is maintained as the blade is advanced from the proximal to the distal end of the jaw. Transection and hemostatis of large pedicles and tissue bundles are easily accomplished.

Enseal™ Works with EnSeal™ RF-60 Controller

The smart electrode works with a dedicated generator, providing optimal power for this advanced vessel sealing system for surgical hemostasis.

Turn to page 3 for more information on this new product in the Gytech range

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New AEM® Instrument – Available Quarter 1, 2006

ENCISION

AEM® Laparoscopic Instruments
featuring enTouch™

Greater transfer of force and motion, improved ergonomics and easier assembly

New from Encision, the enTouch™ family of laparoscopic instrumentation is the first to combine active electrode monitoring with optimal haptic feedback, for an unsurpassed surgical experience

All enTouch™ handles incorporate a number of distinct advantages:

- optimal force transfer with less hand fatigue
- Sleek, light-weight design for smoother operation
- Sensory synchronization for smoother, more predictable control

Featured Product

THE KOH COLPOTOMIZER™ SYSTEM

Laparoscopic hysterectomy and colpotomy accessories for The RUMI System™ Uterine Manipulator

FOR OPTIMISED LAPAROSCOPIC COLPOTOMY

- Exposes critical anatomical structures for improved visualisation, access and operative precision
- Provides landmarks for optimised dissection
- Maintains pneumoperitoneum after colpotomy

CooperSurgical

GYTECH QUARTERLY

Coming Soon

SURGRX

The Smart Electrode™ and Nano-Precise Vessel Sealing

Vessel Size	Mean Burst Pressure
< 4.0 mm	968.4
4 – 7 mm	934.6

EnSeal™ Laparoscopic Vessel Sealing System

The SurgRx EnSeal Laparoscopic Vessel Sealing and Hemostasis System allows surgeons to seal and transect small to large vessels, large pedicles and tissue bundles to achieve surgical hemostasis

- The 5mm EnSeal™ Laparoscopic instrument provides secure sealing of every vessel encountered during laparoscopic surgery
- Tissue controlled energy deposition with the Smart Electrode results in high seal strengths in vessels ranging in diameter from less than 1mm to 7mm
- Sealed vessel walls are capable of withstanding greater than seven times normal systolic pressure
- The EnSeal Laparoscopic instrument grasps, dissects, seals and transects
- Current flow and heat deposition is confined only to tissue within the jaws of the instrument

For more information contact Gytech on 03 9822 5911 or visit the SurgRX website at www.surgrx.com

Dec / Jan Trading

The office will be closing at the end of business on Thursday 22 December 2005.

We will re-open on Tuesday 3 January 2006

If you have any queries during this time you will be able to leave a message on our answering system and your call will be returned.

WE HAVE A NEW AND IMPROVED WEBSITE

WWW.GYTECH.COM.AU

It has the entire Gytech product range as well as back issues of our informative Quarterly Newsletters

Hope you enjoy it!

Need more information?
Call Gytech on 03 9822 5911 or
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