Encision's Active Electrode Monitoring Technology Recommended at Minimally Invasive Gynecology Congress

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BOULDER, Colo., Nov. 17, 2010 /PRNewswire/ -- Active electrode monitoring developed and manufactured by Boulder-based Encision Inc. (Pink Sheets: ECIA [1]), is the only monopolar energy technology proposed as a solution to eliminate visceral burns during Single Port Laparoscopy according to a recent study presentation. Encision is a medical device company owning patented surgical technology that is emerging as a standard of care in minimally invasive surgery.

The recommendations come as a result of a study reported by Dr. Basim Abu-Rafea at the 39th American Association of Gynecological Laparoscopists Global Congress of Minimally Invasive Gynecology. Dr. Abu-Rafea's paper, *Single Port Laparoscopy and Monopolar Electrosurgery May Result in Visceral Burns,* examined the effects of monopolar electrosurgery on various tissues/organs during simulated single port laparoscopic surgery in vitro and in vivo.

Dr. Abu-Rafea's conclusion was that "Monopolar electrosurgery during endoscopic surgery, compared with other energy sources, is associated with unique inherent risks and complications due to inadvertent direct coupling, capacitive coupling and insulation failure." Dr. Abu-Rafea continued, "These dangers become particularly important with the emergence of single port laparoscopy which requires close proximity and crossing of multiple intra-abdominal instruments."

Dr. Abu-Rafea also added, "During single port laparoscopy and use of monopolar energy, the proximity and crossing of instruments generates capacitive and/or direct coupled currents which may cause visceral burns. Proposed solutions include the use of active electrode monitoring when performing single port laparoscopy to prevent capacitive coupling and direct coupling or consider using other forms of energy such as harmonic or bipolar."

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SOURCE [2]

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