

**Investment Brief for
Temperature-indicator Dispersive
Electrodes for a New Standard of safety
in Electrosurgery**

**NSW
AREA HEALTH
SERVICES**

Office of Commercialisation

**For further information under a Confidential Disclosure
Agreement, please contact the following OoC team member in
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Temperature-indicator Dispersive Electrodes for a New Standard of safety in Electrosurgery

The Technology

Our clinical research team has designed a new technology enabling the temperature of dispersive electrodes to be determined at a glance. The ingeniously simple technique produces unique graded temperature indications, ideal for theatre assistants to monitor temperature build-up from current return, and to prevent burns at the dispersive electrode site. The technology can be adapted to standard dispersive electrodes with negligible increase in manufacturing cost, but significant improvements in safety.

It should be noted that this technology does not require the use of any additional monitoring equipment or sensors such as thermocouples or thermistors.

Applications

This system can be applied for electro surgery, particularly with high powered diathermy and Radio-Frequency (RF) ablation in Cardiology/Cardiac surgery, Obstetric and Gynaecological surgery and General surgery.

The technology could be used alone or combined with other burn prevention technologies on both capacitative and resistive dispersive electrodes, e.g. thermocouples or equipotential rings.

A simple, cost-effective advantage to prevent Dispersive Electrode Burns.

Market

The global and US electrosurgery markets are valued at greater than US\$550 million and US\$300 million respectively, and are characterized by intense, entrenched competition. Market leaders e.g. Tyco-Valleylab, expected 5-8% revenue growth in the market to 2006. Approximately 85% of all surgical procedures use electrosurgery and 70% of injuries reported during electrosurgery are from dispersive electrode burns.

IP Position

A Provisional Patent application was filed in 2004 and PCT in 2005 which is fully owned by Sydney West Area Health Service.

Commercialisation

Sydney West Area Health Service is seeking a partner to licence our technology for the manufacture, distribution and sale of temperature-indicator dispersive electrodes. The licensee may fast-track regulatory approvals through clinical trials at Westmead Hospital with our clinical professionals.