



The Problem

Faulty insulation in Diathermy Instruments

All over the world, faulty insulation on endoscopic instruments regularly causes accidents which can lead to tissue damage and which can cause temporary or permanent injury to the patient. In the worst case scenario, fatalities may occur.

Studies^{1,2} in hospitals have shown that 18% of the endoscopic instruments used in the hospitals which participated in the trial had damaged insulation.

References/Bibliography

¹ Casseress YA, Albayrak A, Kijkoprates beeld. Tussenrapportage. (Endoscopic Surgery in Focus. Interim Report.) 5th March 2003 NVEC and TU Delft

² Prof. Dr. G. van der Wal, Risico's minimal invasieve chirurgie onderschat. (Risks of Minimally Invasive Surgery Underestimated.) November 2007

The Solution

Insulation Testing with DIATEG professional

In addition to standard safety procedures, a diathermy tester can eliminate any possible doubt regarding the integrity of the insulation layer on electro-surgical instruments. This device detects damage, porosity, hairline cracks, pinholes and gas pockets, which all affect the efficacy of the insulation and can lead to internal burns.

Testing of electro-surgical instruments has now become mandatory in the Netherlands. To minimize patient risk and limit the surgeon's responsibility for defective instruments, this guideline should also be used in all other European countries.



The Benefits

- + **Discovers the smallest defects in the instrument insulation**
- + **Testing reduces the risk of an accident during surgery**
- + **Display with audiovisual alarm**
- + **Touchscreen, simple and safe to operate**
- + **Testing of mono- and bipolar instruments**

Other Technical Features:

- **CE tested**
- **Non-destructive procedure**
- **Compact, light-weight and portable**
- **Microprocessor-controlled**
- **Operation by touchscreen and membrane switch**
- **Secure battery operation**
- **Easy to clean housing**
- **4 available test programs**

The Product

The DIATEG professional insulation tester is supplied with the following accessories:

- Diathermy Tester with Touchscreen
- Mains adapter
- Testcables, 2 pcs.
- Universal clamp
- Operator manual
- Test certificate

References

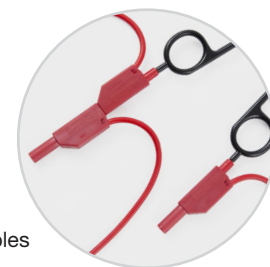
In almost all Dutch clinics and in a number of British hospitals, central sterilization departments have decided to use the Diathermy Tester.

Some of the convincing arguments underlying this decision are listed below:

- An accurate, fast and non-destructive testing method for the detection of damage
- The device is compact, portable and easy to operate
- The device facilitates testing of diathermy testers with different diameters
- Fault display via audiovisual signals
- An attractive price/performance ratio
- Enhanced safety during surgery



insulation tester DIATEG



Testcables



Universal clamp