

# RECENT STUDIES OF INSULATION FAILURE IN LAPAROSCOPIC INSTRUMENTS

	STUDY I	STUDY II	STUDY III	STUDY IV	TOTAL/AVG.
<b>INSTRUMENTS TESTED*</b>	1,438	98	299	165	2,000
<b>INSULATION FAILURES</b>	267	28	105	31	431
<b>INCIDENCE OF FAILURES</b>	18.6%	28.6%	35.1%	18.8%	21.6%

## Study I

**Investigator** Dirk Meijer, MD, MSc, PhD  
**Author** Rosemary Frei, MSc  
**Title** Safety Study of Laparoscopic Instruments Rings Alarm Bells  
**Publication** General Surgery News  
**Publication Date** August 2005

## Study II

**Investigator/Author** Anusch Yazdani, MD, et al.  
**Title** Laparoscopic instrument insulation failure: The hidden hazard  
**Publication** Journal of Minimally Invasive Gynecology (2007) 14, 228-232  
**Publication Date** March/April 2007

## Study III

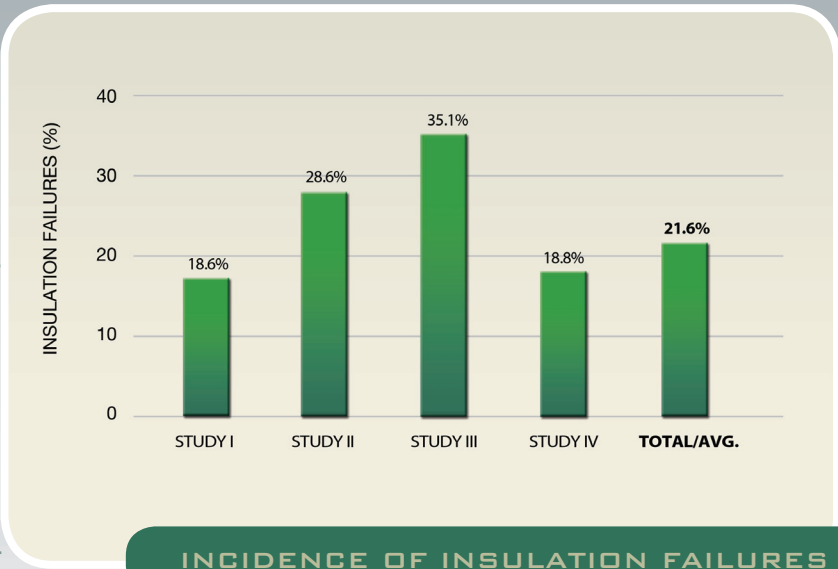
**Investigator/Author** M. Espada, MD, et al.  
**Title** Insulation Failures in Robotic and Laparoscopic Instrumentation: A Prospective Evaluation  
**Publication** Abstracts/Journal of Minimally Invasive Gynecology 15 (2008) S1-S159  
**Publication Date** November/December 2008

## Study IV

**Investigator/Author** Paul N. Montero, MD, et al.  
**Title** Insulation failure in laparoscopic instruments  
**Publication** Surg Endosc (2010) 24:462-465  
**Publication Date** Published online: 2 July 2009

\*Data are for reusable laparoscopic instruments from hospitals including those who routinely use hospital-based detection programs and those who do not.

Study IV authors concluded that **"the incidence of insulation failures in laparoscopic instruments is not altered by the presence of current hospital-based detection programs."**



OF THE **2000** TOTAL  
 LAPAROSCOPIC  
 INSTRUMENTS TESTED,  
**431** INSTRUMENTS  
 OR **21.6%** HAD  
 INSULATION FAILURES.

**THAT'S ROUGHLY  
 1 IN 5 INSTRUMENTS!**

SAFE AND EFFECTIVE DELIVERY OF ELECTROSURGICAL ENERGY

