

Università degli Studi di Trieste
UCO di Chirurgia Generale
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Le suture difficili

**Workshop: Suture in Chirurgia
Laparoscopica**

S. Daniele del Friuli 3 Aprile 2009



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M. Kosuta

Suture difficili laparoscopiche: *Manuali*

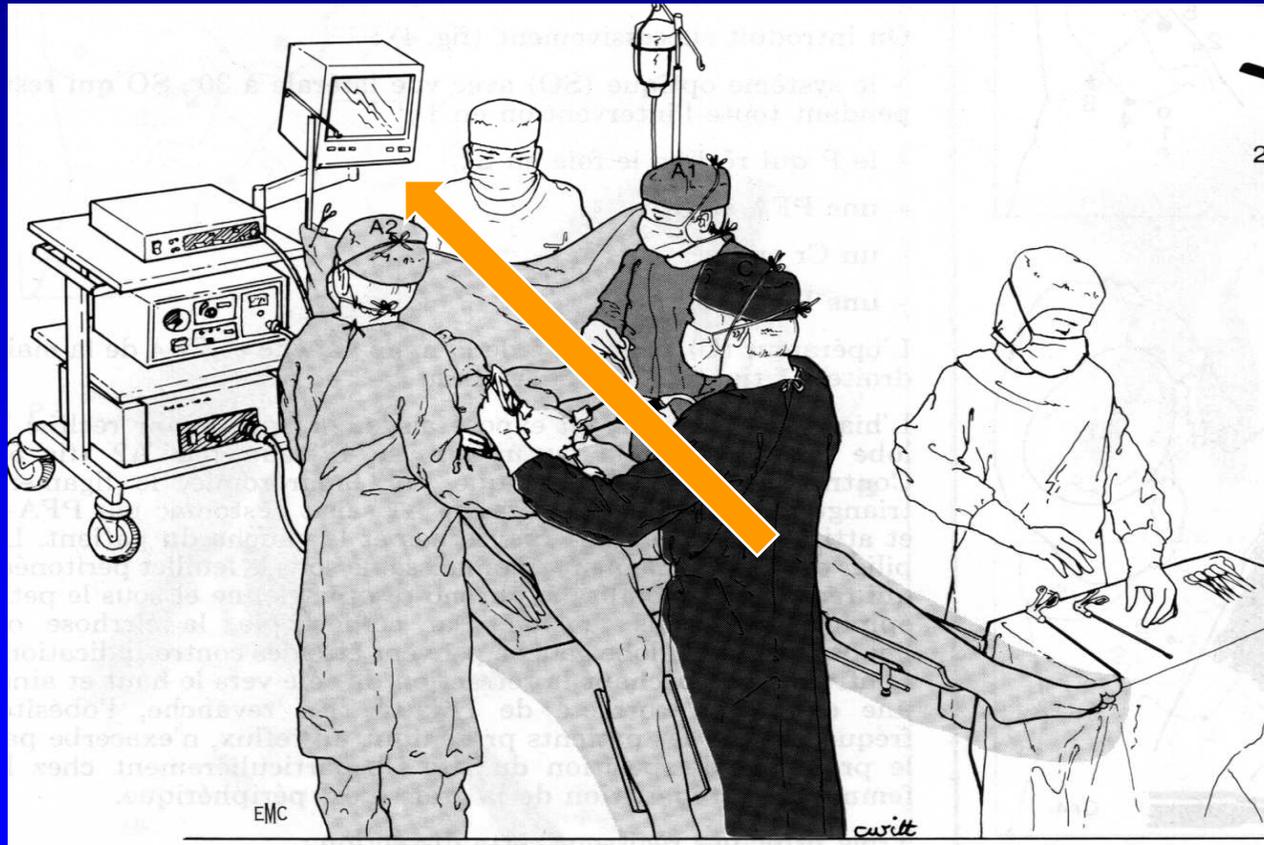


Suture difficili laparoscopiche: *Meccaniche*



Condizioni ottimali

Campo operatorio isoplanare al chirurgo



....la letteratura

Surg Endosc (2002) 16: 267-271
DOI: 10.1007/s00464-001-8152-4

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and Other Interventional Techniques

Ergonomic principles of task alignment, visual display, and direction of execution of laparoscopic bowel suturing

T. A. Emam, G. Hanna, A. Cuschieri

World J. Surg. 24, 444-449, 2000
DOI: 10.1007/s002689910070



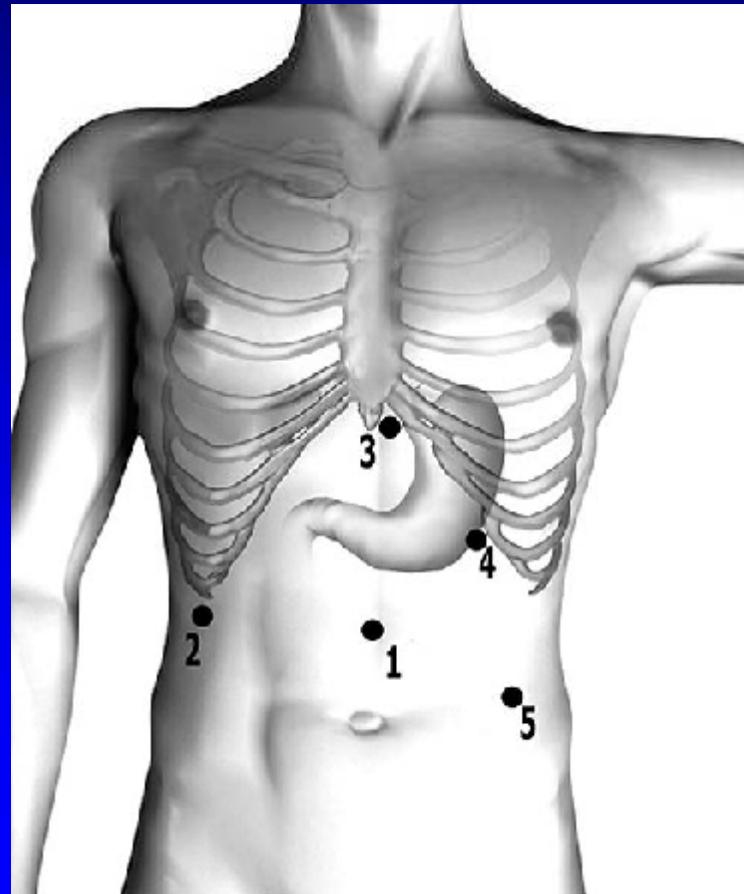
WORLD
Journal of
SURGERY
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Original Scientific Reports

Influence of Two-dimensional and Three-dimensional Imaging on Endoscopic Bowel Suturing

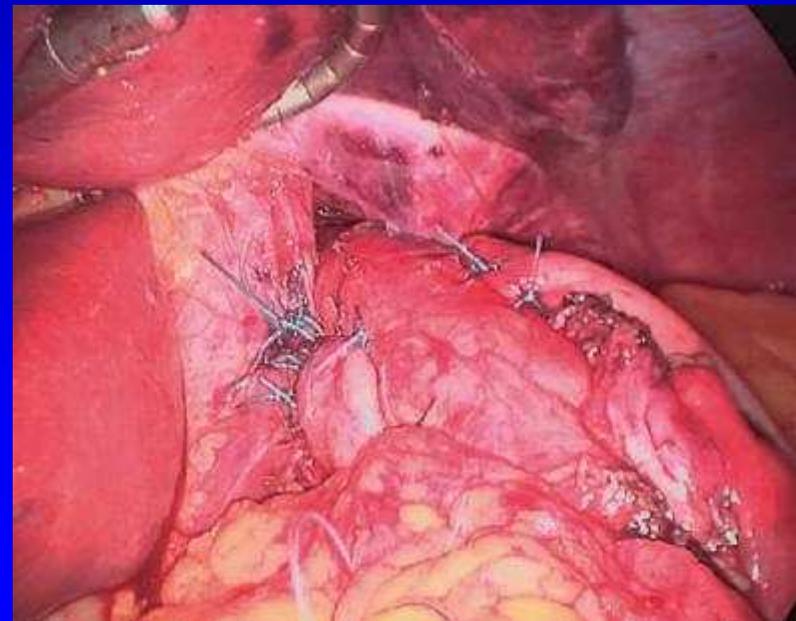
George B. Hanna, M.B. Ch.B., Ph.D., Alfred Cuschieri, M.D., Ch.M.

Buona triangolazione degli strumenti



Orientamento viscere

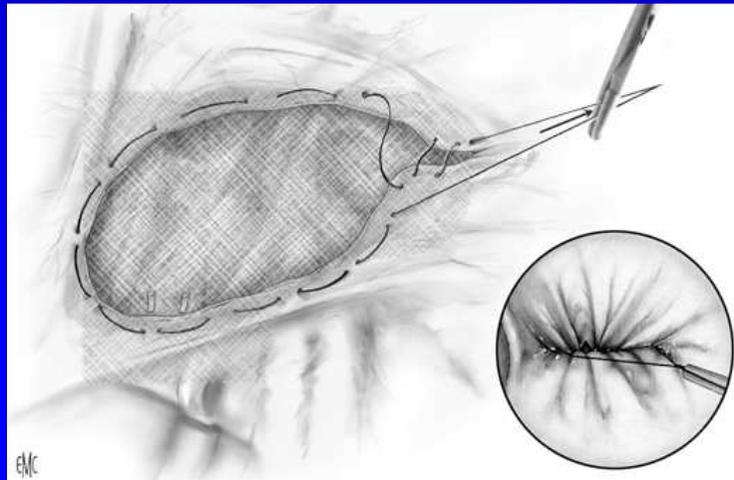
Struttura da suturare verticale



Suture difficili

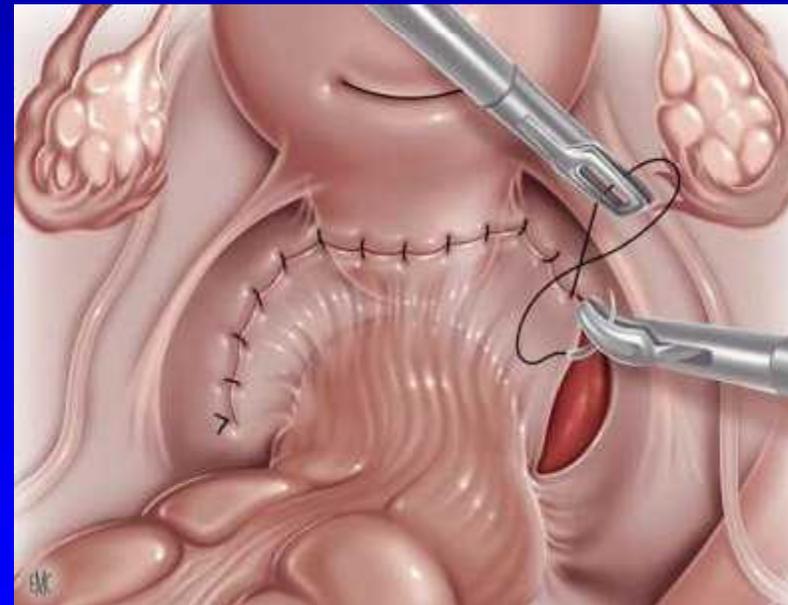
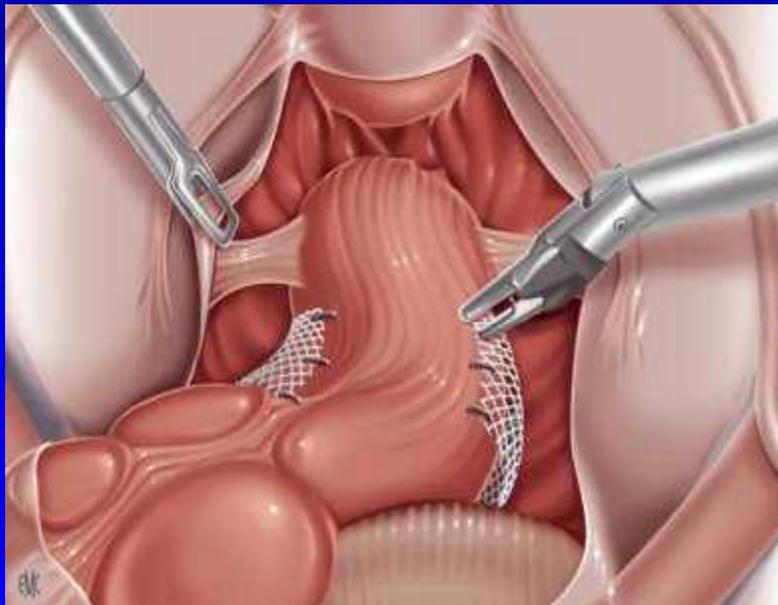
maggior affaticamento muscolare

Struttura da suturare orizzontale



Suture difficili

Difficile triangolazione degli strumenti



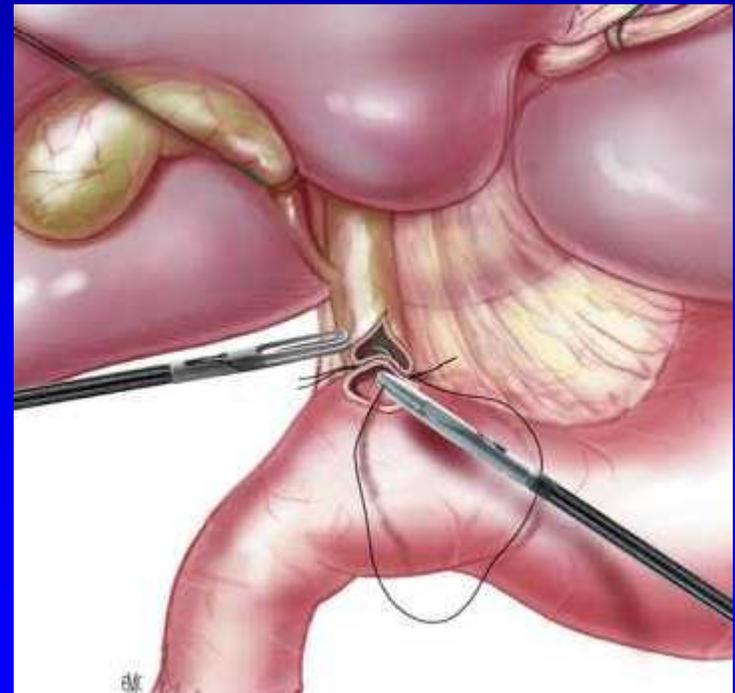
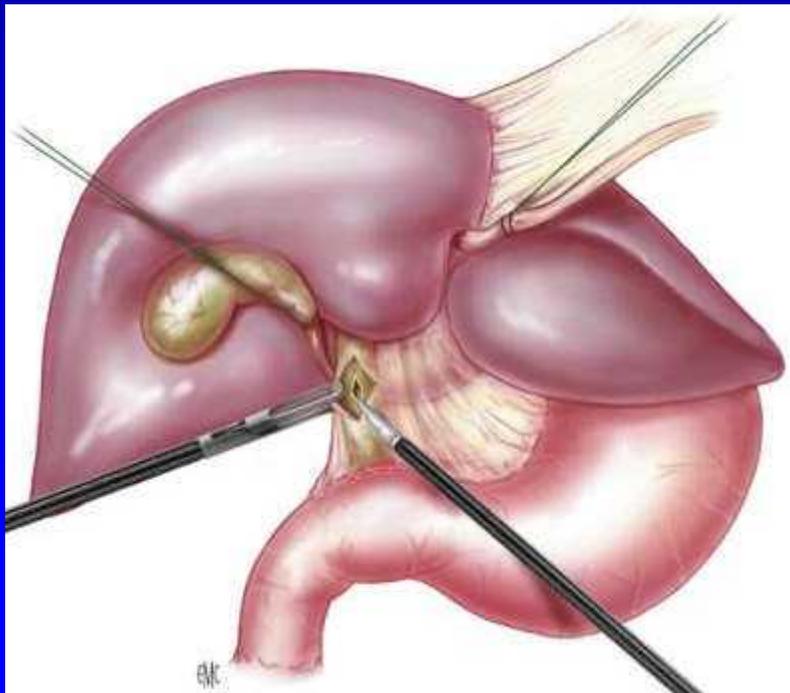
Suture difficili

Sede

- Esofago
- Stomaco: by-pass gastrico
- Tenue
- Vie biliari
- Retto basso: pelvi stretta

Tessuto

- Fragilità tessuti
- Ridotte dimensioni (es. dotti biliari).



Suture difficili

meccaniche ●

Come superare le difficoltà?

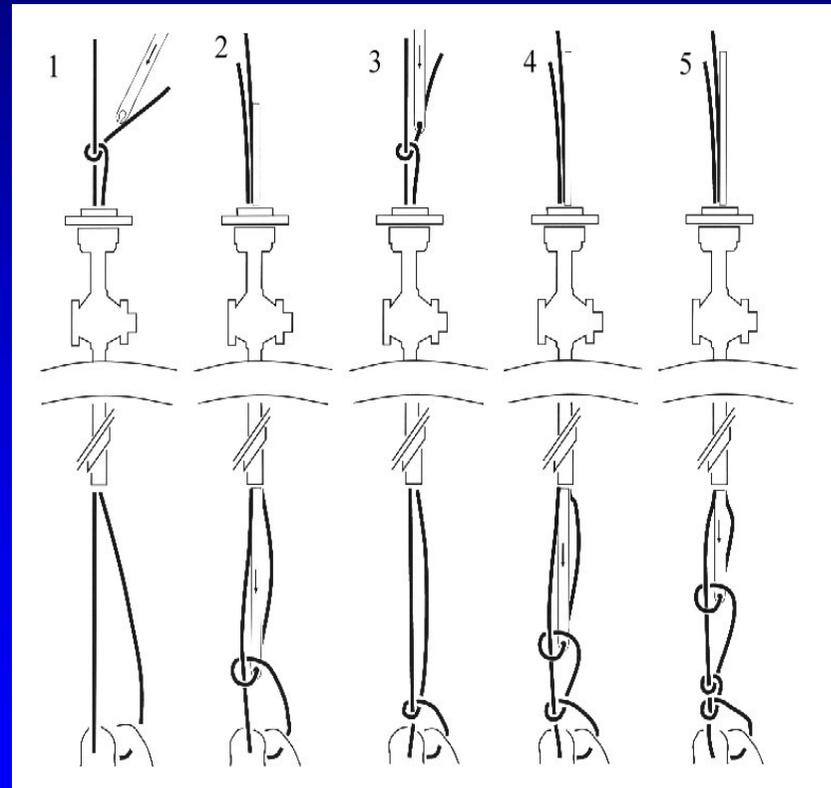
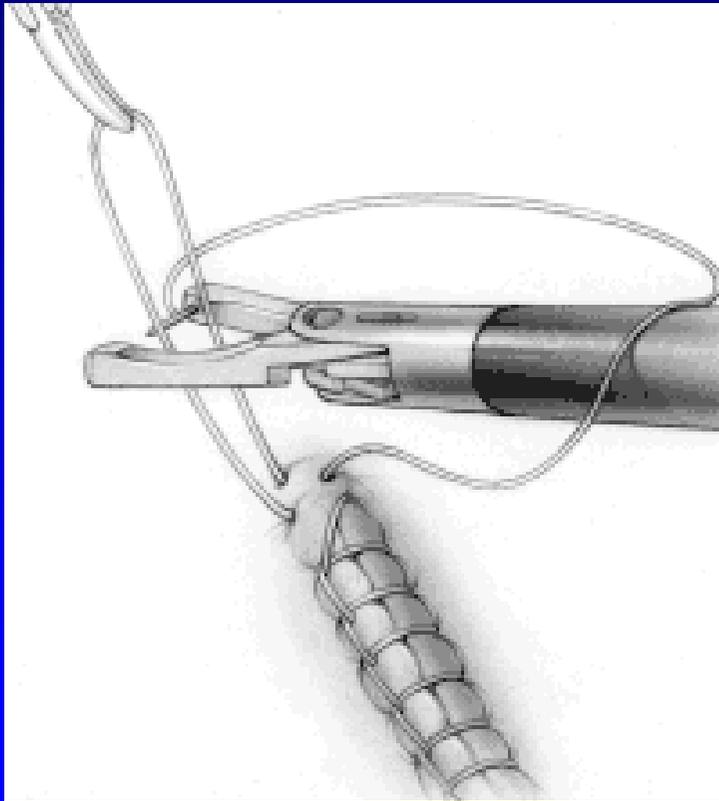


.....la tecnica

Orientamento delle strutture in
funzione della posizione del chirurgo

TRIANGOLAZIONE

.....*la tecnologia*



.....*l' esperienza*

Training laparoscopico

Grazie

