



S.I.C.O.B.

Venezia

SPRING MEETING

13-14 MAGGIO 2025

Presidente Onorario
del Congresso
Pietro Forestieri

Presidente del Congresso
Maurizio De Luca

PALAZZO
DEL CASINÒ/LIDO
DI VENEZIA



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DA LAPAROTOMIA A LAPAROSCOPIA FINO ALLA
PIATTAFORMA ROBOTICA: STEP BY STEP
OPPURE SALTO AD OSTACOLI

MASSIMILIANO DI PAOLA

OSPEDALE SAN PIETRO FATEBENEFRATTELLI

ROMA





Ways of Bowing

Level of respect



Saikeirei



Keirei



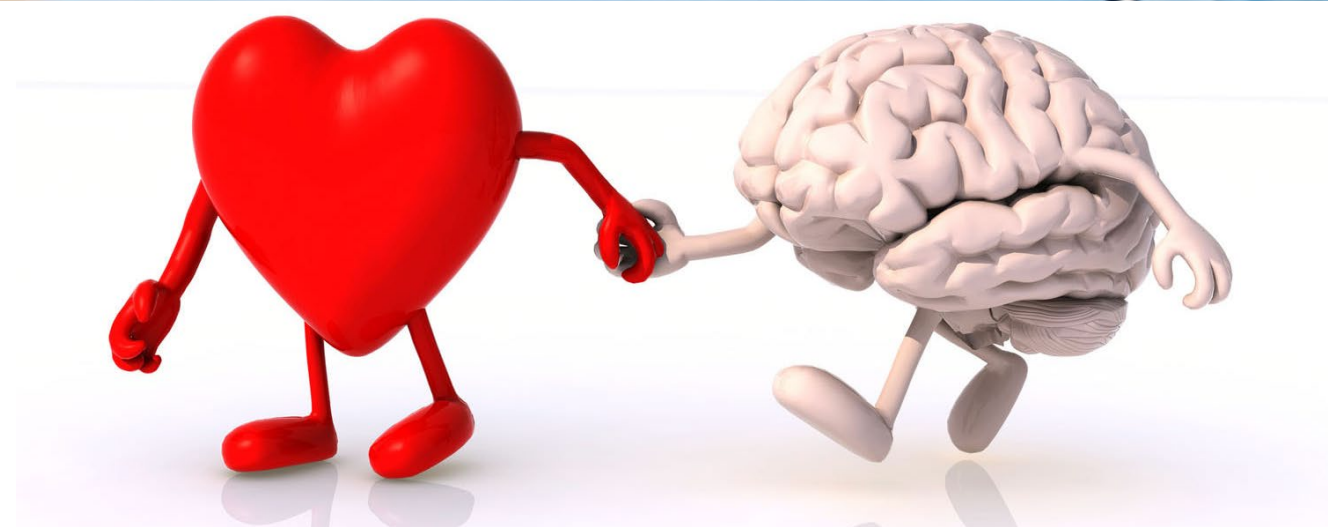
Eshaku

Size of angle

nippon.com



Premessa.....



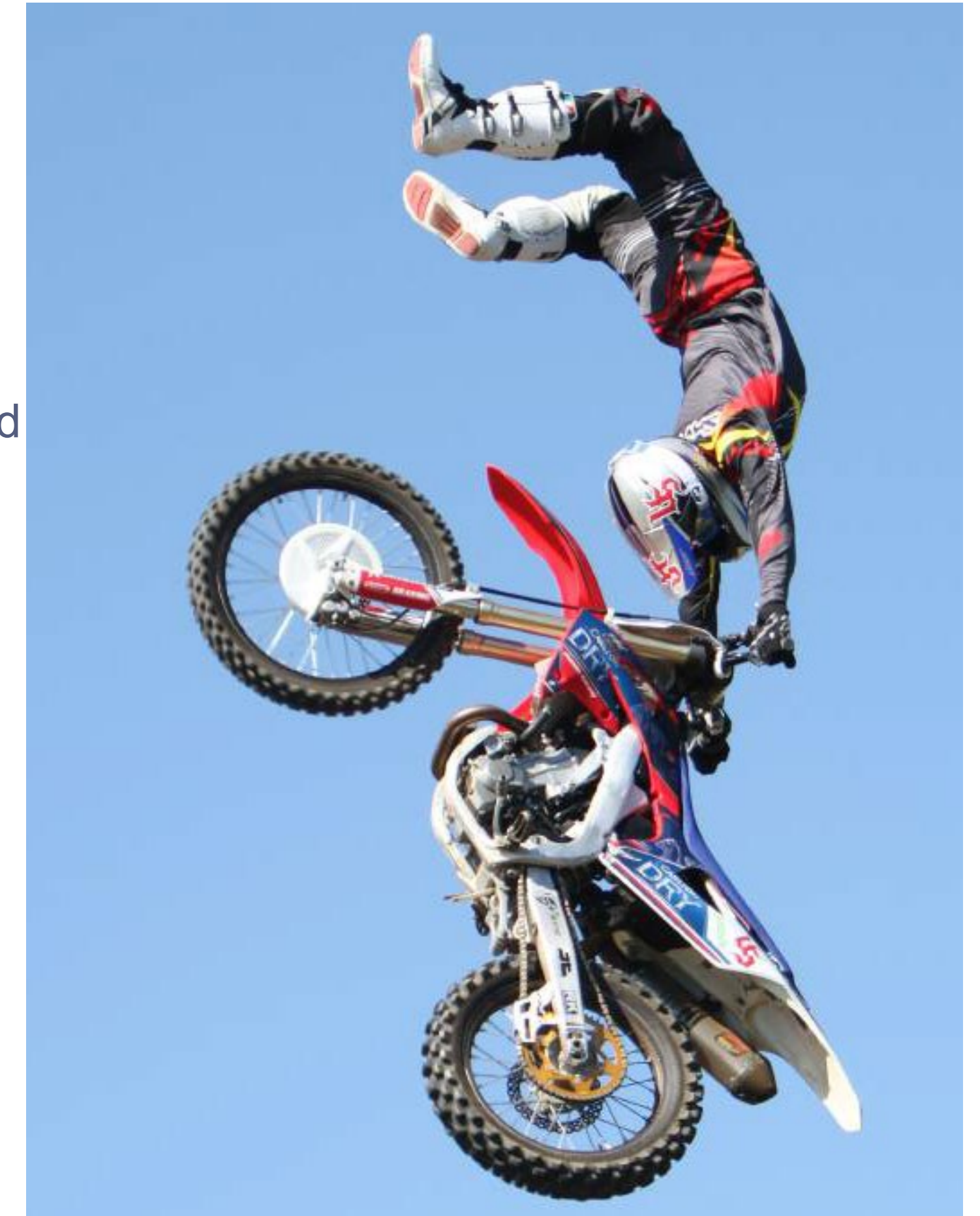
Prof. Cristiano Germano Huscher

Laparotomia > Laparoscopia

Step by step oppure salto ad ostacoli

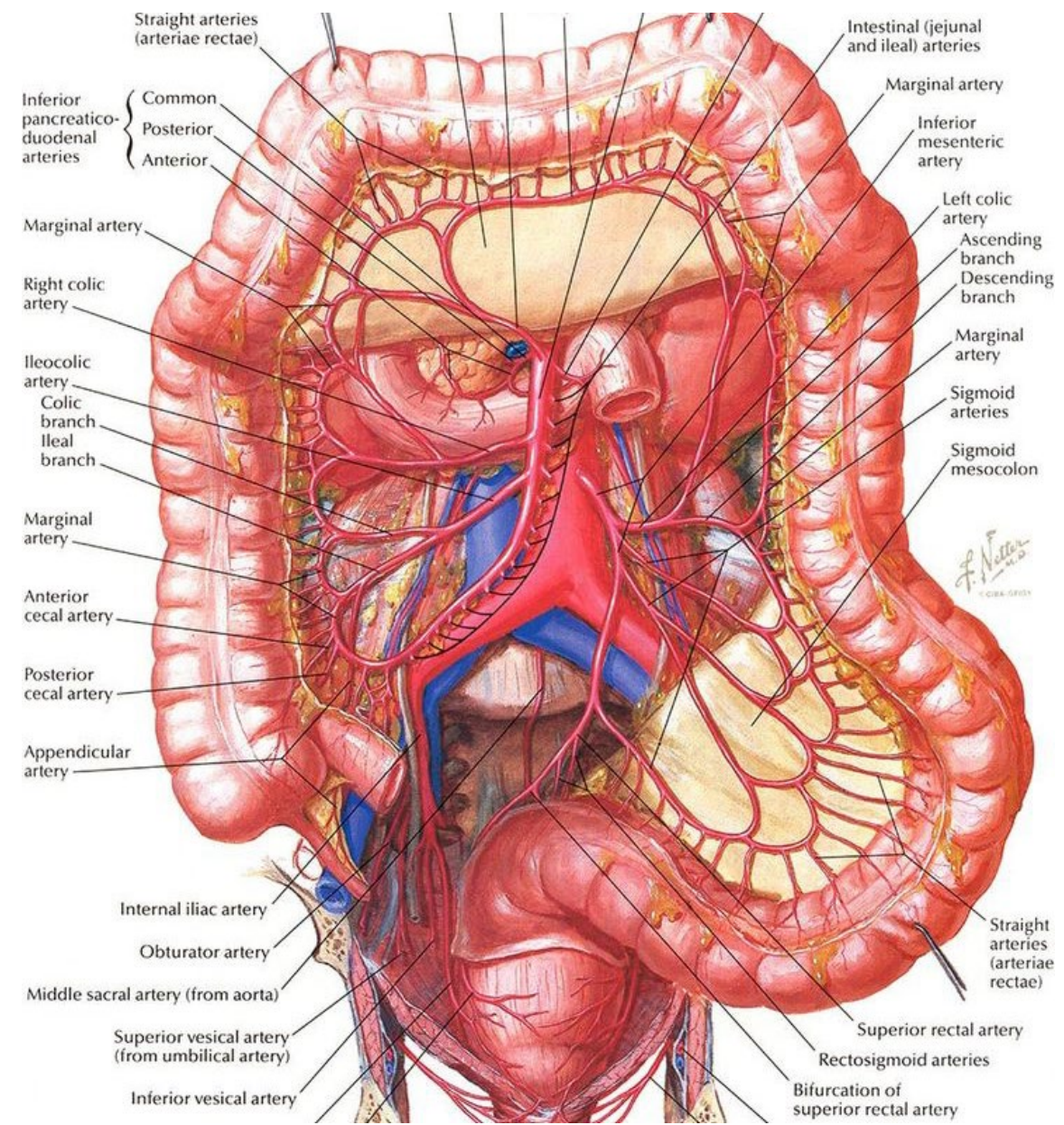
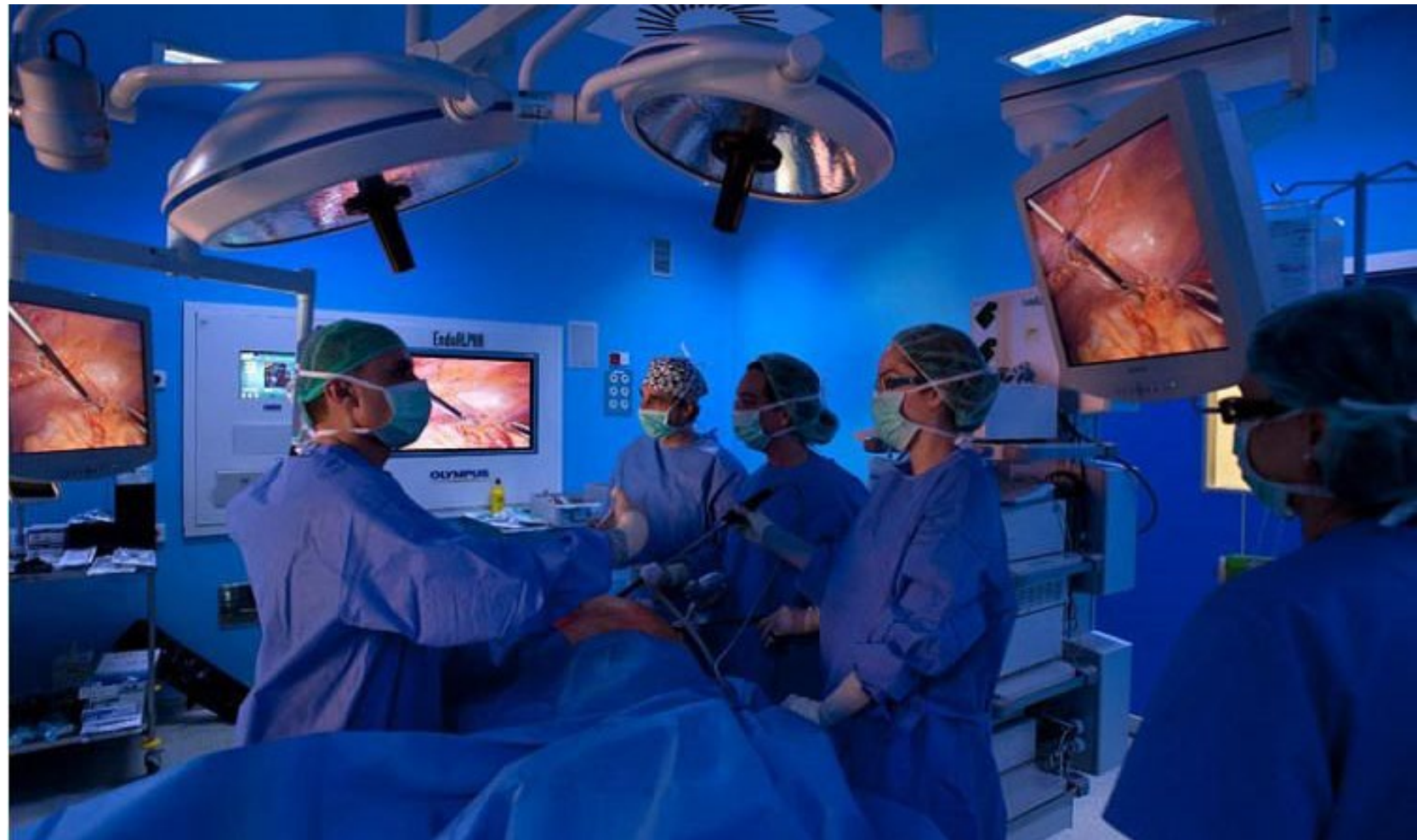
LAPAROSCOPIA

- **Smaller Incisions:**
Laparoscopic surgery uses small incisions (about 0.5 to 1.5 cm) compared to the larger incisions of open surgery.
- **Less Trauma:**
The smaller incisions and reduced tissue disruption mean less trauma to surrounding tissues, resulting in less pain and swelling.
- **Minimal Scarring:**
The smaller incisions lead to minimal scarring, which is often barely noticeable.
- **Shorter Hospital Stay:**
Patients typically spend less time in the hospital, as the reduced trauma allows for faster healing and return to normal activities.
- **Quicker Return to Daily Life:**
The faster recovery allows patients to resume their daily activities and work sooner.
- **Less Postoperative Pain:**
The smaller incisions and less tissue disruption mean less nerve damage and pain.
- **Reduced Need for Pain Medication:**
Patients generally require less pain medication after laparoscopic surgery. :
- **Less Blood Loss:**
Laparoscopic surgery generally results in less blood loss during and after the procedure.
- **Lower Risk of Infection:**
The smaller incisions reduce the risk of infection compared to open surgery.
- **Reduced Risk of Other Complications:**
Laparoscopic surgery also lowers the risk of other postoperative complications, such as wound separation and incisional hernia.
- **Improved Cosmetic outcome:** The small incisions leave minimal scars, which are often barely noticeable.








Perchè ?

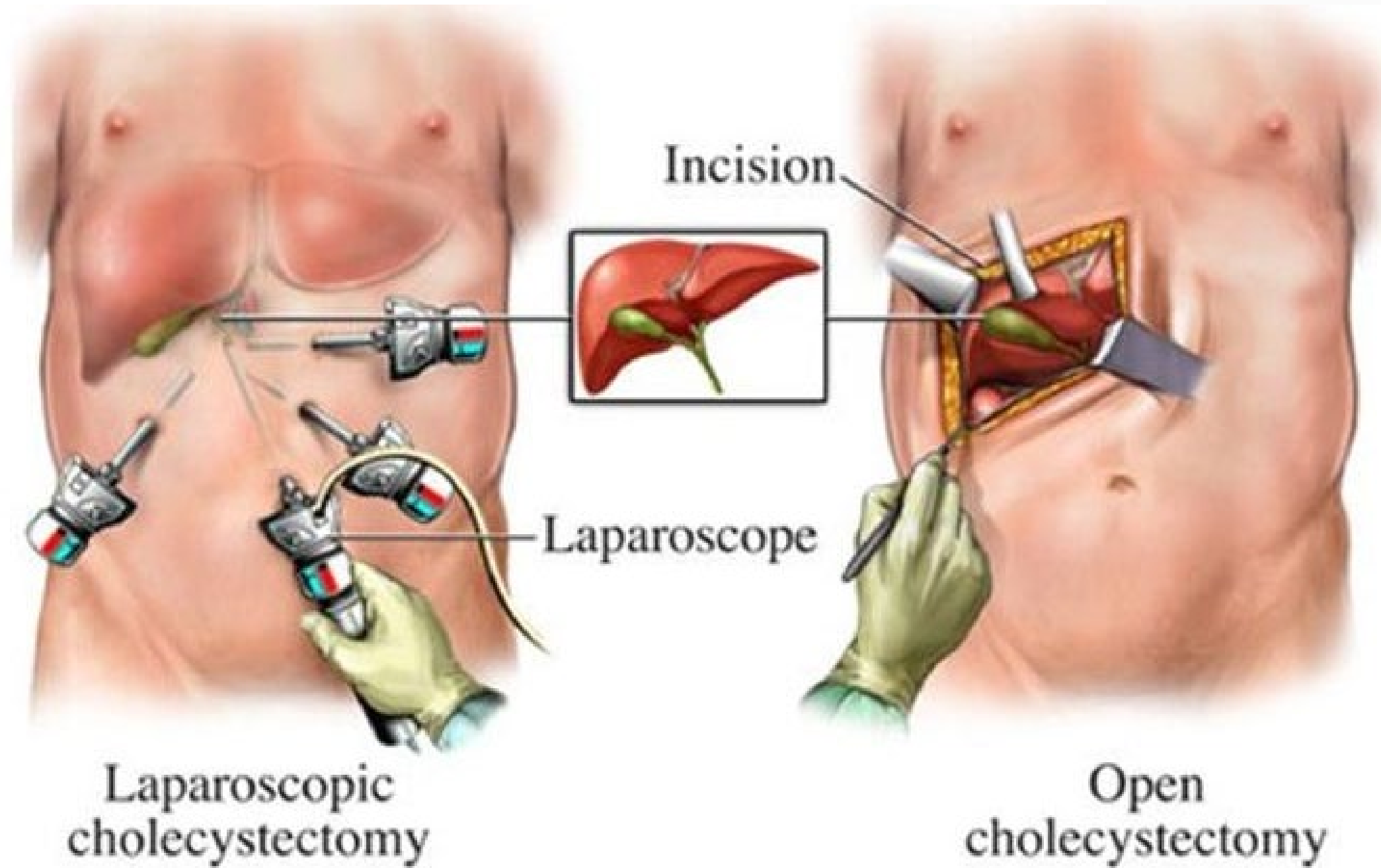




Application tip evolution

Year	1992	1999	1999
Photo			
Equipment	CS Jaw (10mm) with blade rotation LCS Jaw (10mm) with blade rotation	CS14C (5mm)	LCS (5mm)
Category	Shears	Shears	Shears
Indication	Hemostatic cutting and coagulation	Hemostatic cutting and coagulation	Hemostatic cutting and coagulation
Vessel Size	≤3mm vessels	≤3mm vessels	≤3mm vessels
Blade Configuration	Broad or narrow flat rectangle	Curved, broad blade with blunt tip	Rounded, long blade

Nonostante i vantaggila laparoscopia fu all'inizio bistrattata



Prof Basso

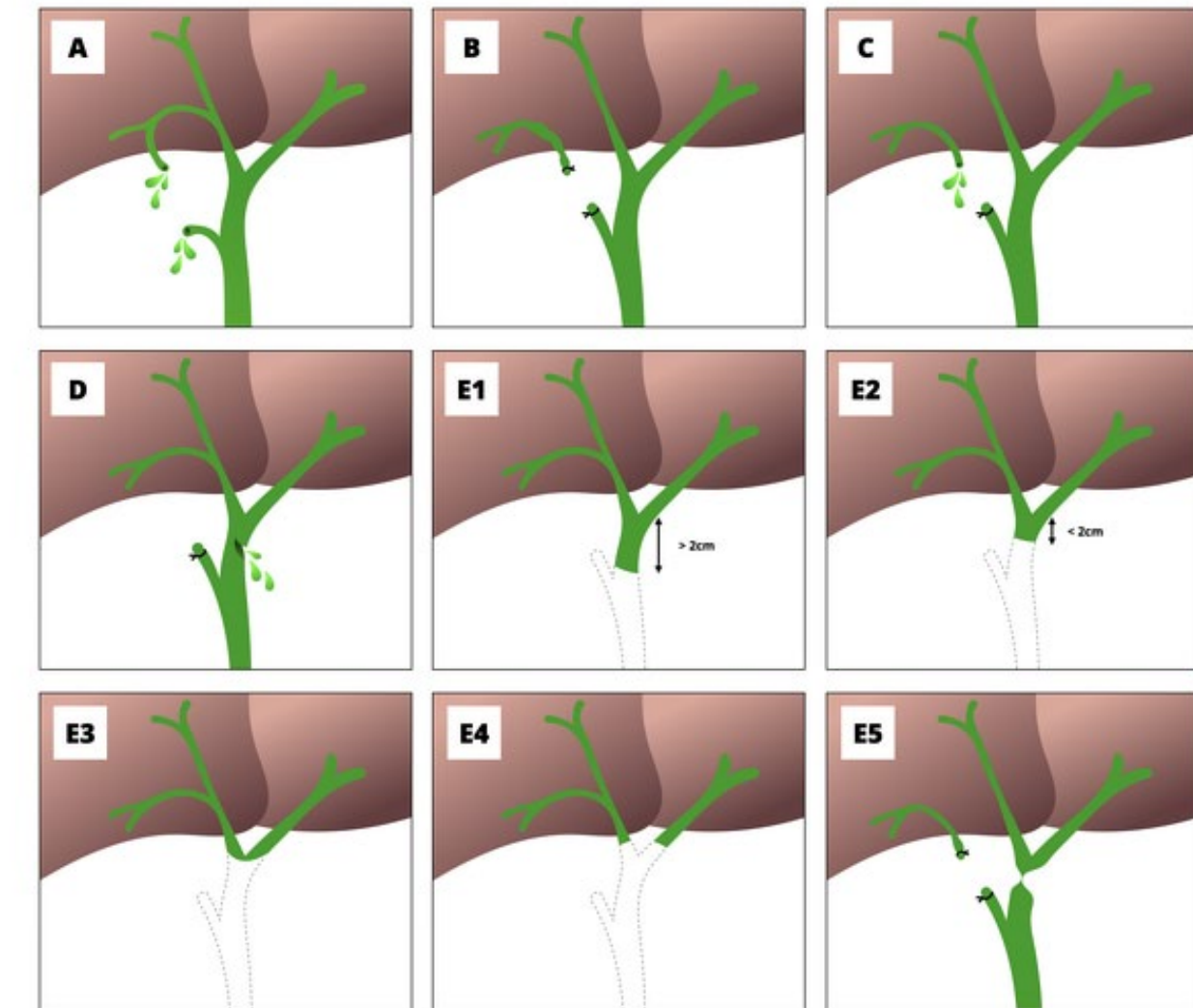


**Lateral Trocar
Site Implant**

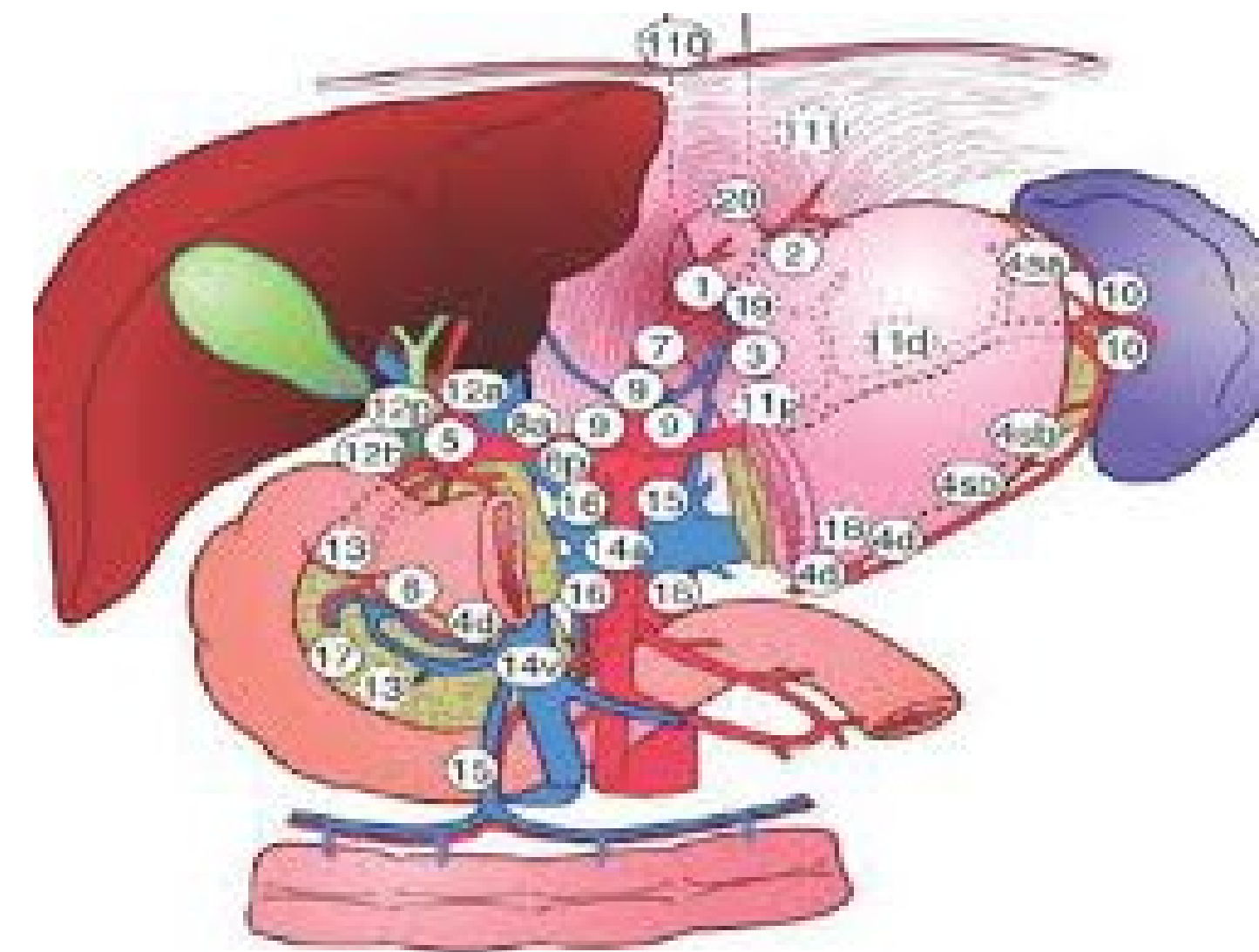
**Umbilical Trocar
Site Implant**



Strasberg classification



Frank Galland
© 2005



Laparotomia > Laparoscopia

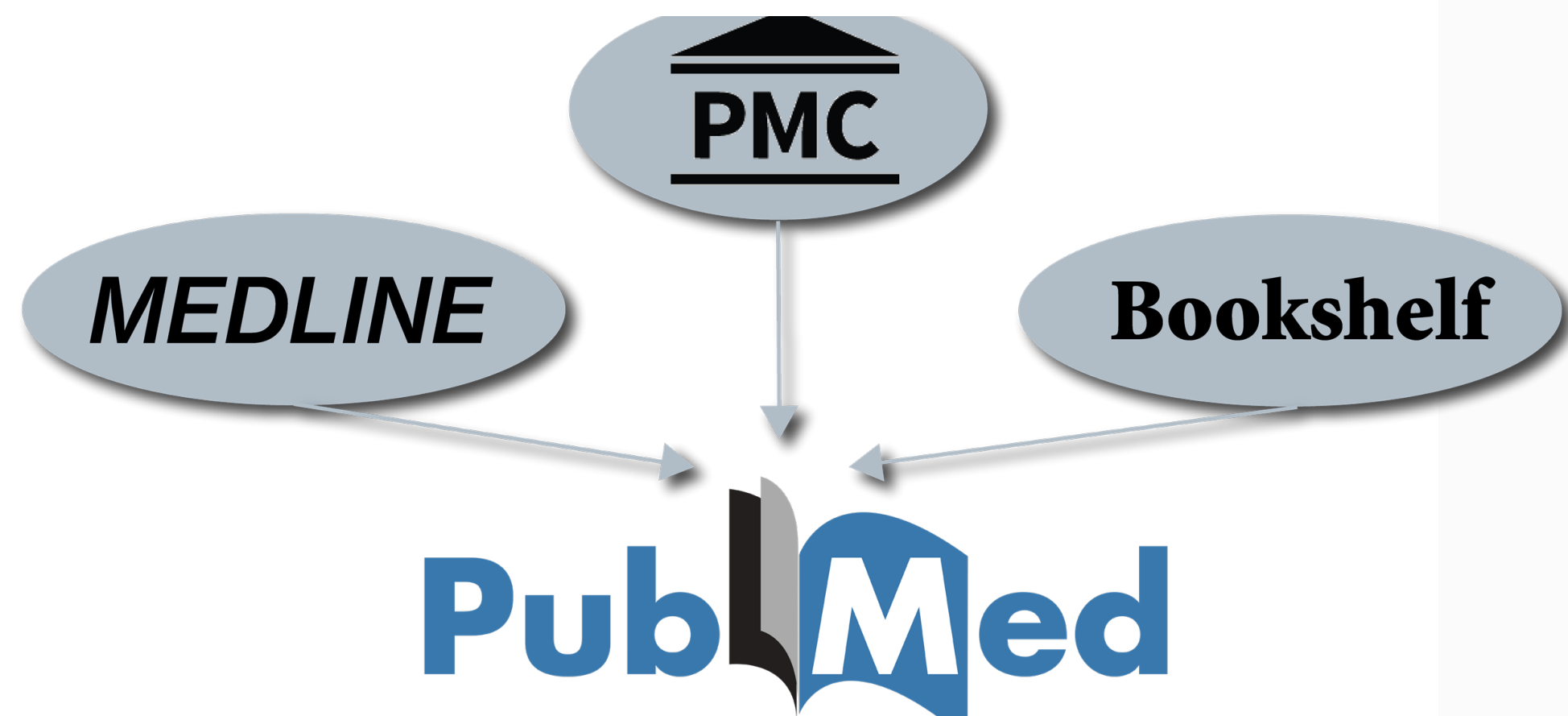


Laparoscopia > Robot



Paziente e Chirurgo

	Open	Laparoscopic	Robotic
Advantages	<p>Seven degrees of freedom</p> <p>Proven</p> <p>Procedure time</p> <p>Direct visualization</p> <p>Hand–eye coordination</p> <p>Ease of instruction</p> <p>Touch enhanced</p>	<p>Well developed</p> <p>Proven</p> <p>Less traumatic</p> <p>Direct visualization</p> <p>Procedure times</p> <p>↓ In-patient stay</p> <p>↓ Patient recovery time</p> <p>↑ Patient satisfaction</p>	<p>Seven degrees of freedom</p> <p>Tremor elimination</p> <p>Microanastamosis</p> <p>Motion scaling</p> <p>Telesurgery capability</p> <p>Ergonomics</p> <p>3D visualization</p> <p>↑ Sterility</p>
Disadvantages	<p>Less sterile</p> <p>More traumatic</p> <p>Tremor amplified</p> <p>↑ In-patient stay</p>	<p>Learning curve</p> <p>Four degrees of freedom</p> <p>2D image</p> <p>Tremor amplified</p> <p>Touch decreased</p>	<p>Touch absence</p> <p>Cost</p> <p>Learning curve</p> <p>Procedure times</p> <p>More studies needed</p>



meta analysis robotic laparoscopic surgery

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◆ AI Overview

Meta-analyses comparing robotic-assisted surgery (RAS) to conventional laparoscopic surgery (LPS) generally show that **RAS is associated with similar perioperative outcomes, including overall complications and conversion rates, but with longer operative times**. However, RAS may offer benefits such as shorter hospital stays and reduced blood loss, particularly in experienced surgeons. [🔗](#)

Meta-analyses comparing robotic-assisted surgery (RAS) to conventional laparoscopic surgery (LPS) generally show that RAS offers similar perioperative outcomes to LPS, but with longer operating times:

Similarities:

- **Perioperative outcomes:**

Many meta-analyses find no significant difference in overall complications, surgical site infections, reoperation rates, or anastomotic leaks between RAS and LPS.

- **Conversion rates:**

Some studies show no difference in the rate of conversion to open surgery between RAS and LPS.

- **Blood loss:**

While some studies show less blood loss with RAS, others find no significant difference.

- **Hospital stay:**

Some studies report shorter hospital stays with RAS, while others show no significant difference.

Differences:

- **Operating time:**

RAS consistently requires a longer operating time compared to LPS.

- **Conversion rates:**

Some meta-analyses suggest a lower conversion rate with RAS, particularly in rectal cancer surgery.

- **Blood loss:**

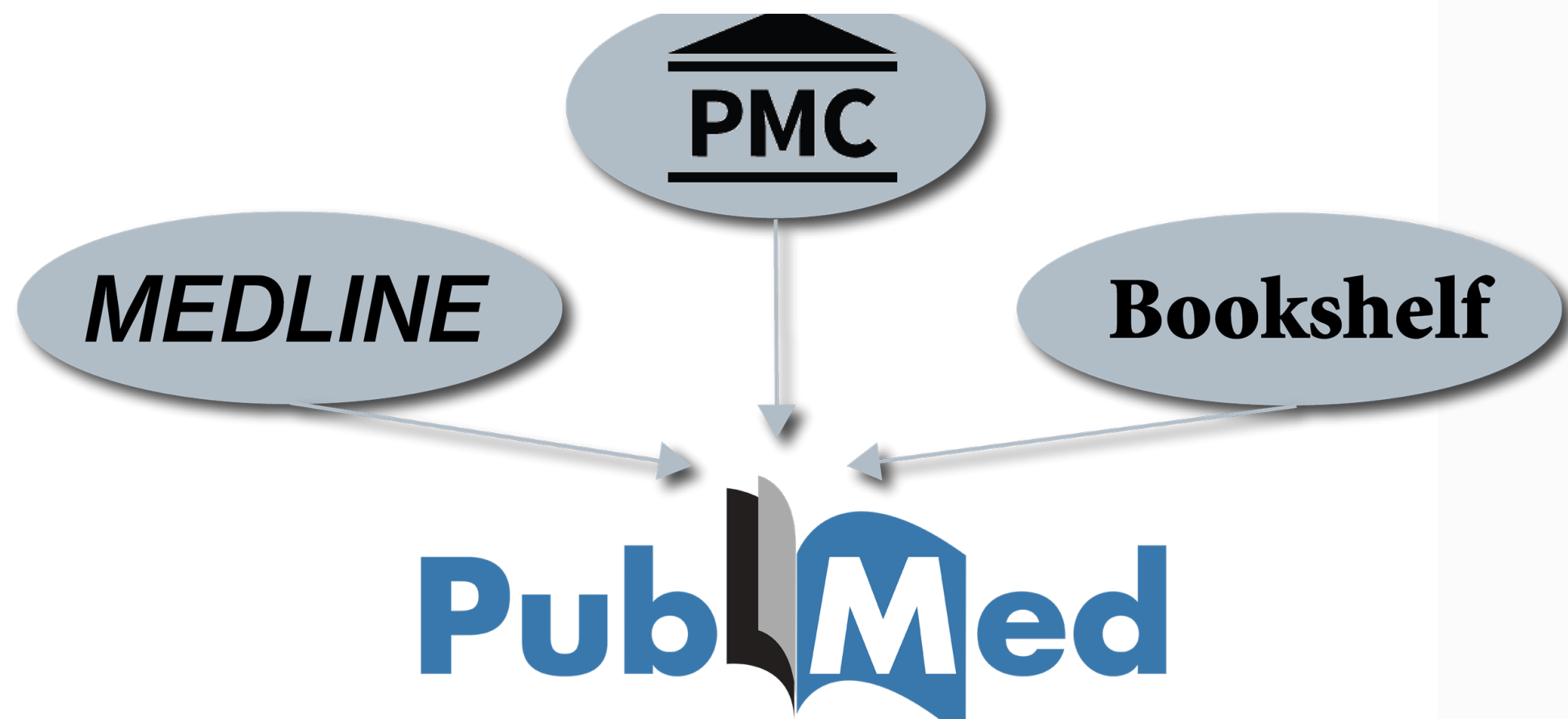
Some meta-analyses indicate less blood loss with RAS, especially in colorectal surgery.

- **Hospital stay:**

Some meta-analyses show a trend towards shorter hospital stays with RAS, particularly in colorectal surgery.

Conclusion:

While RAS offers some potential advantages over LPS in specific areas, such as potentially lower conversion rates and shorter hospital stays in some cases, it's important to remember that the overall perioperative outcomes are largely comparable. The choice between RAS and LPS should be made on a case-by-case basis, considering factors such as the specific procedure, patient characteristics, surgeon experience, and available resource



meta analysis cost robotic laparoscopy

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◆ AI Overview

Meta-analyses comparing the cost of robotic and laparoscopic surgery consistently show that **laparoscopic surgery is typically more cost-effective**. While robotic surgery may offer some benefits like improved visualization and precision, the higher initial investment, operational costs, and potential for longer operative times contribute to a higher overall cost. [🔗](#)

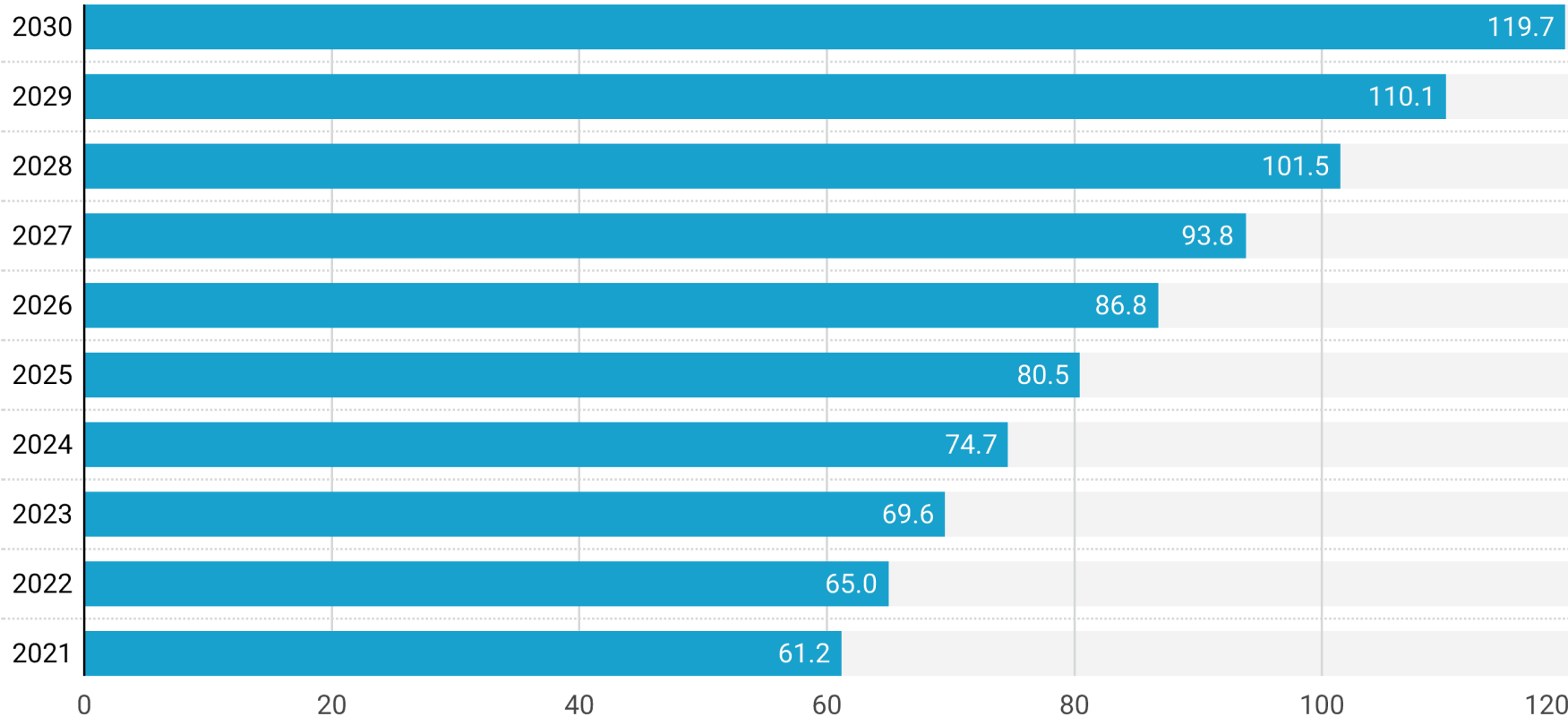
Meta-analyses comparing the cost of robotic and laparoscopic surgery consistently show that laparoscopic surgery is typically more cost-effective. While robotic surgery may offer some benefits like improved visualization and precision, the higher initial investment, operational costs, and potential for longer operative times contribute to a higher overall cost.

Elaboration:

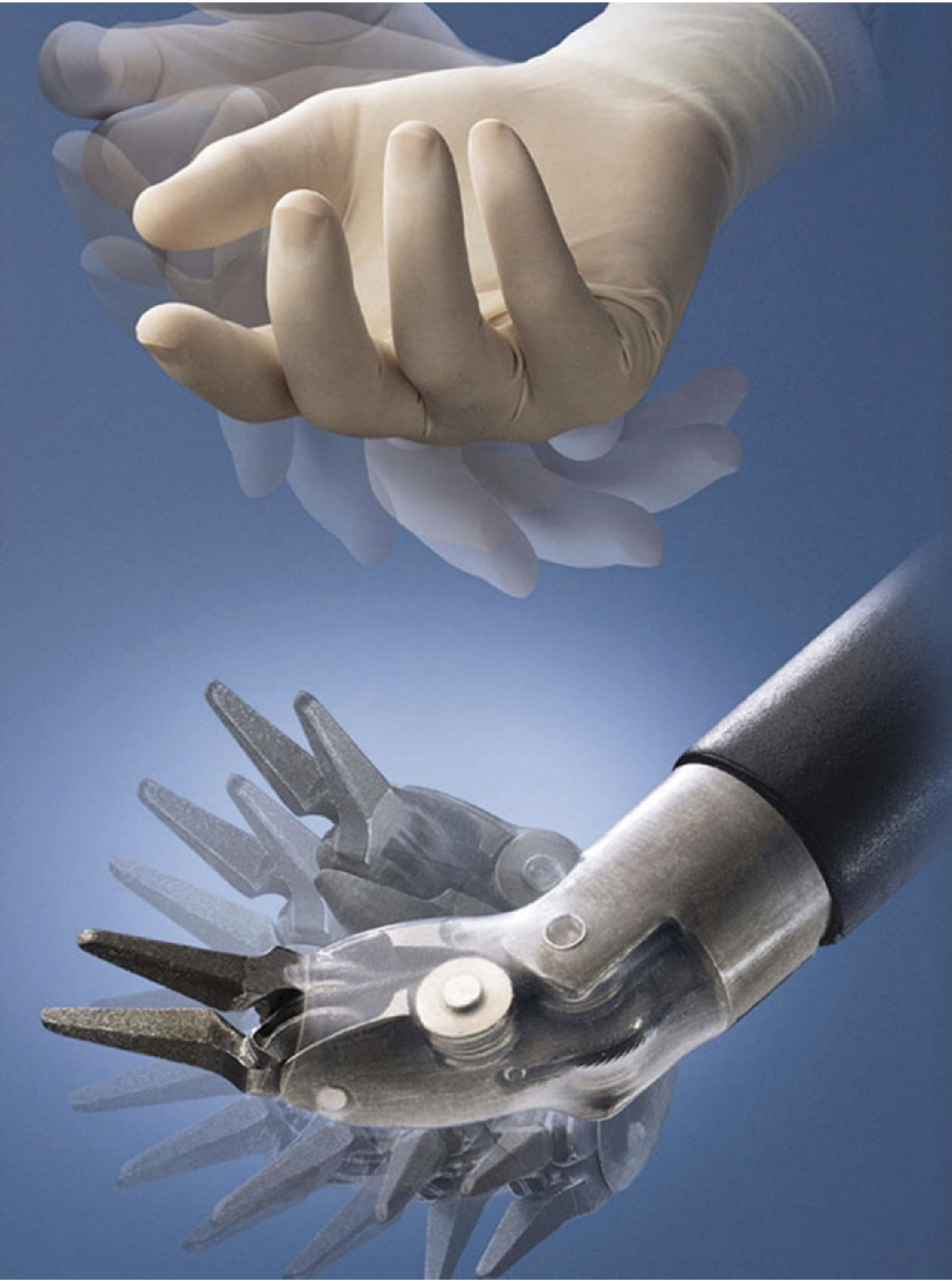
- **Laparoscopic surgery is generally cheaper:**
Studies have consistently found that laparoscopic surgery results in lower total costs, including operative costs and hospital stays, compared to robotic surgery.
- **Robotic surgery has higher initial costs:**
The high initial investment in robotic systems, as well as the ongoing costs of maintenance and training, contribute significantly to the higher overall cost of robotic surgery.
- **Potential benefits of robotic surgery:**
While robotic surgery may offer some benefits like improved visualization and precision, these benefits do not always translate into lower overall costs.
- **Trade-offs in cost and effectiveness:**
Some studies have found that while robotic surgery may offer some benefits in specific areas, such as reduced complications, the higher costs may outweigh these benefits in a cost-effectiveness analysis.
- **Important considerations:**
When considering robotic surgery, it's important to weigh the potential benefits against the higher costs and consider the specific clinical context and patient population.

Global Surgical Robotics Market 2021-2030 (USD Bn)

Size of the Surgical Robotics Market Worldwide Between 2021 and 2030



(Market Size in USD Billion)
Source: Market.us News



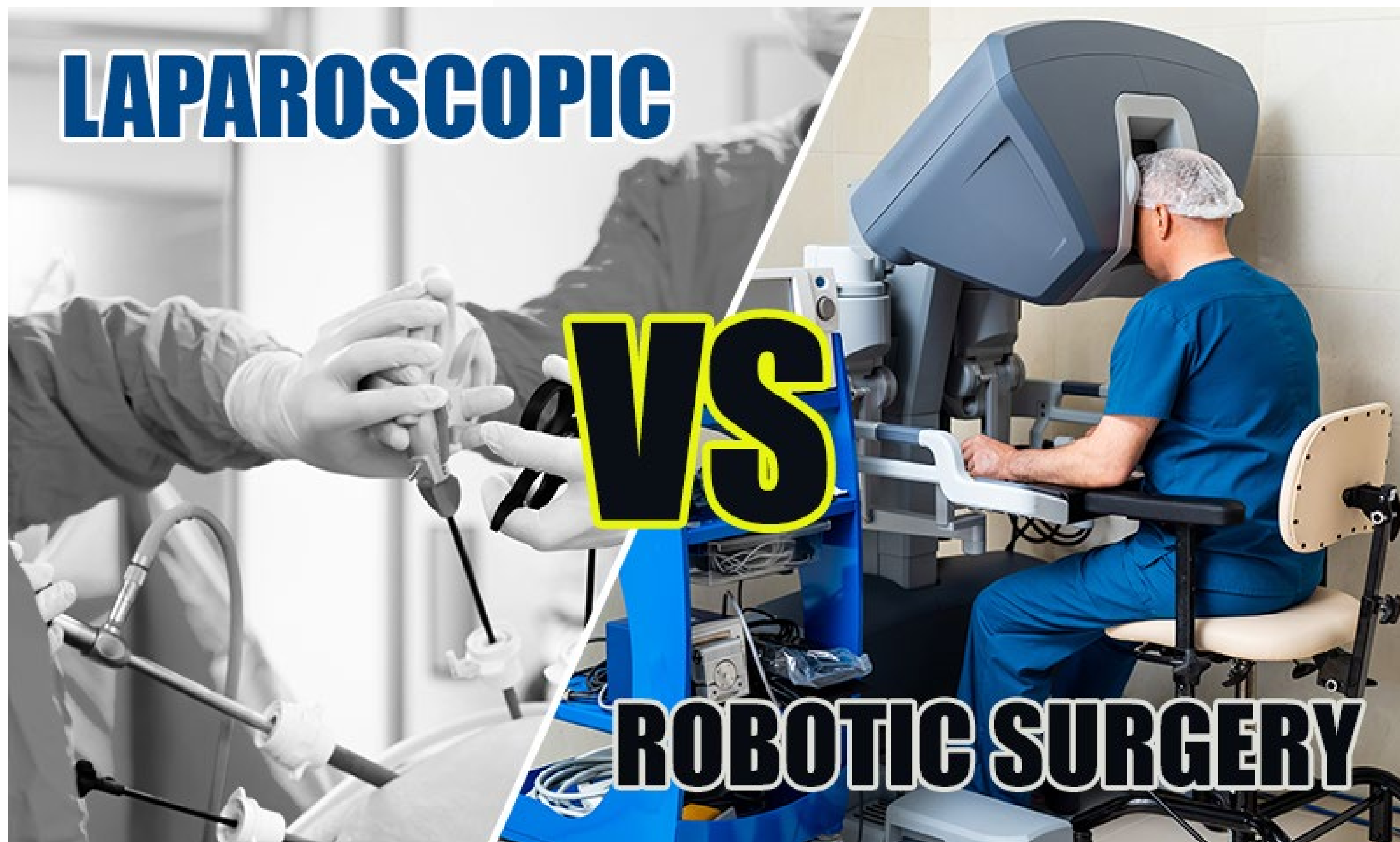


Full Profess...
1s • 🌐

Rivolto a giovani Specialisti in
Chirurgia Generale (età
massima 38 anni)
Dirigente Medico, Assunzione a
tempo determinato di 1 anno
con possibilità di successivo
passaggio a tempo
indeterminato con contratto
AIOP presso l'UOC Chirurgia
Generale Epatobiliare, Ospedale
San Raffaele Milano.

15.256 borse messe a bando per il 2024,
solo
il 75% è stato assegnato.
Quelle assegnate per la Chirurgia Generale
sono state soltanto il 51% di quelle
disponibili

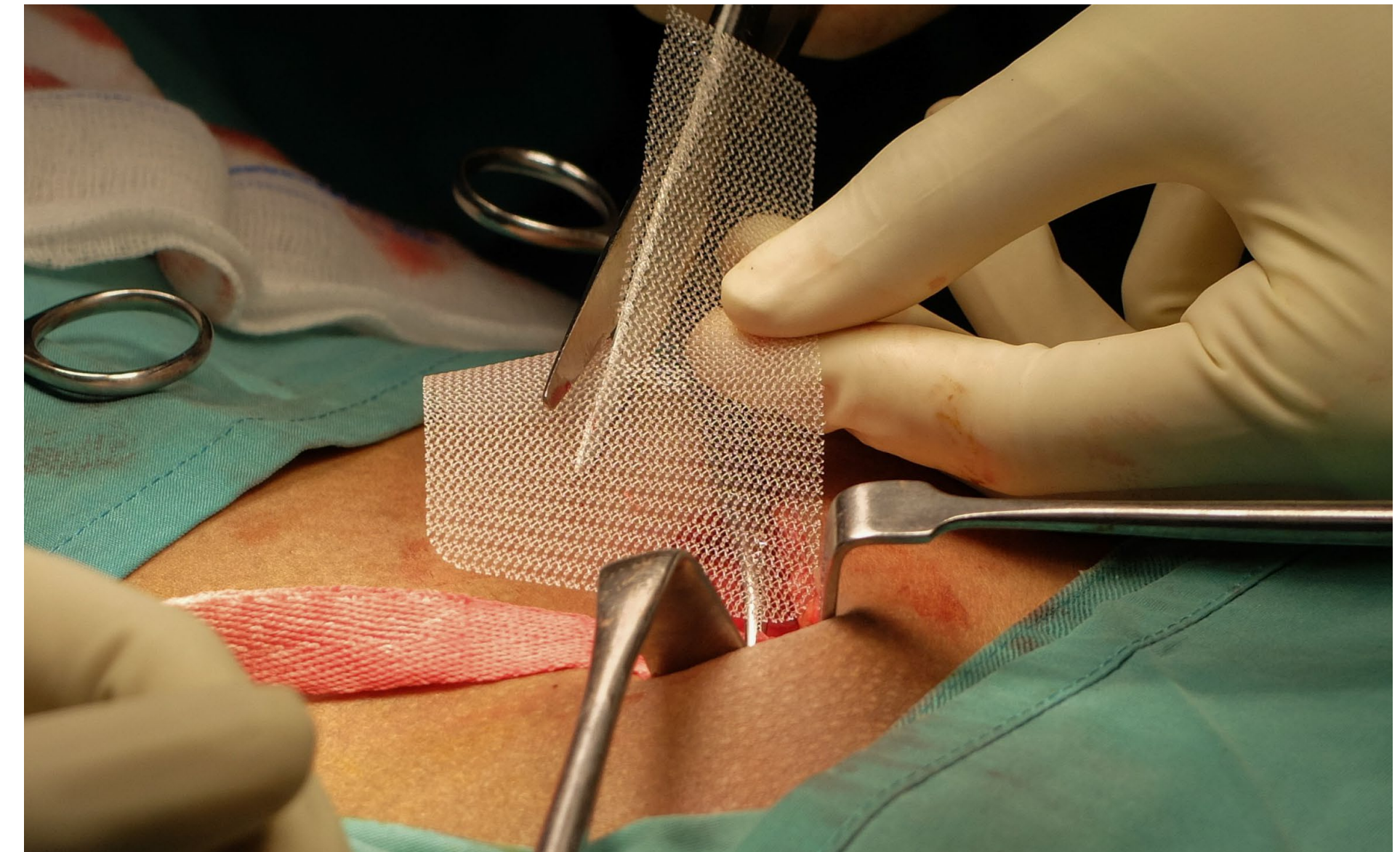




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“

Decisions
are more
important
than incisions

ROBERT BRUCE SALTER

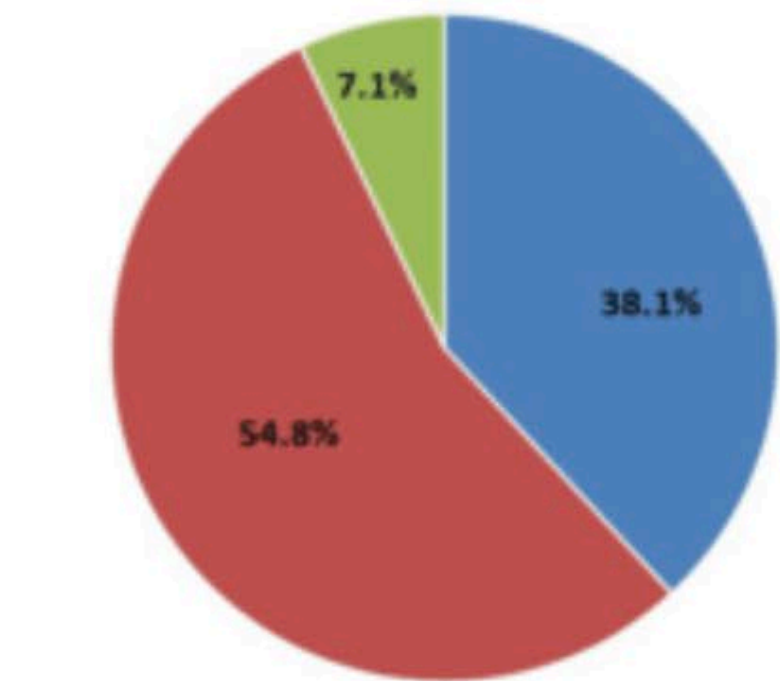


Scott's parabola: the rise and fall of a surgical technique



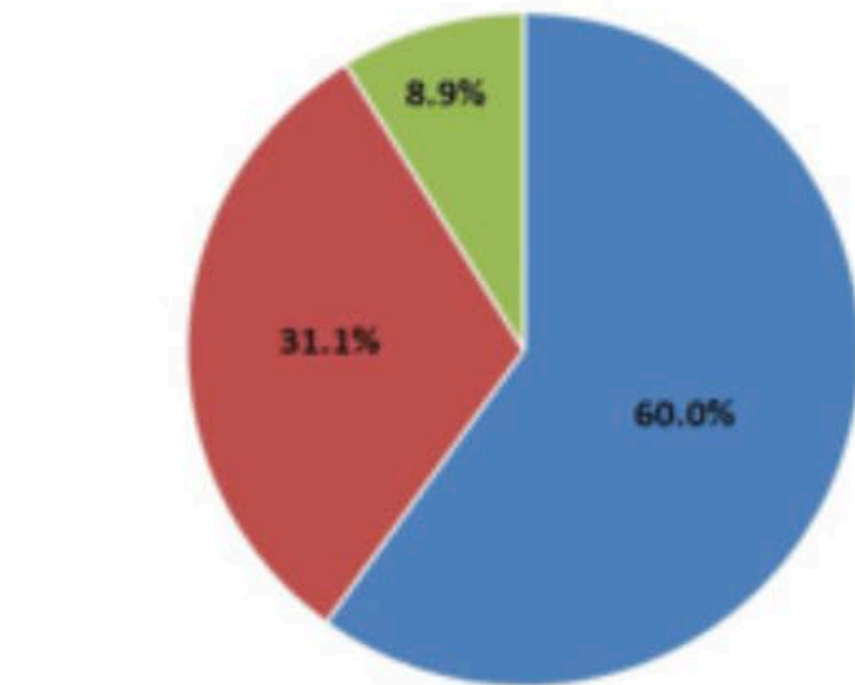
J W Scott consultant gynaecologist, Poole Hospital NHS Trust, Poole, Dorset BH15 2JB

Most common reason for conversion to open surgery



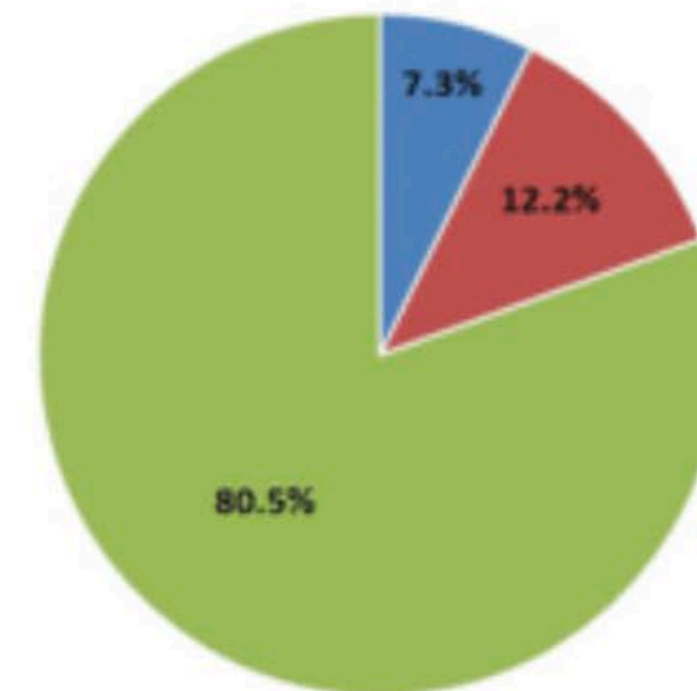
Uncontrollable bleeding
Unclear anatomy
Common bile duct (CBD) injury

2nd most common reason for conversion to open surgery



Uncontrollable bleeding
Unclear anatomy
Common bile duct (CBD) injury

3rd most common reason for conversion to open surgery



Uncontrollable bleeding
Unclear anatomy
Common bile duct (CBD) injury

IN CASE OF EMERGENCY
BREAK GLASS



1. Malfunzionamenti Tecnici

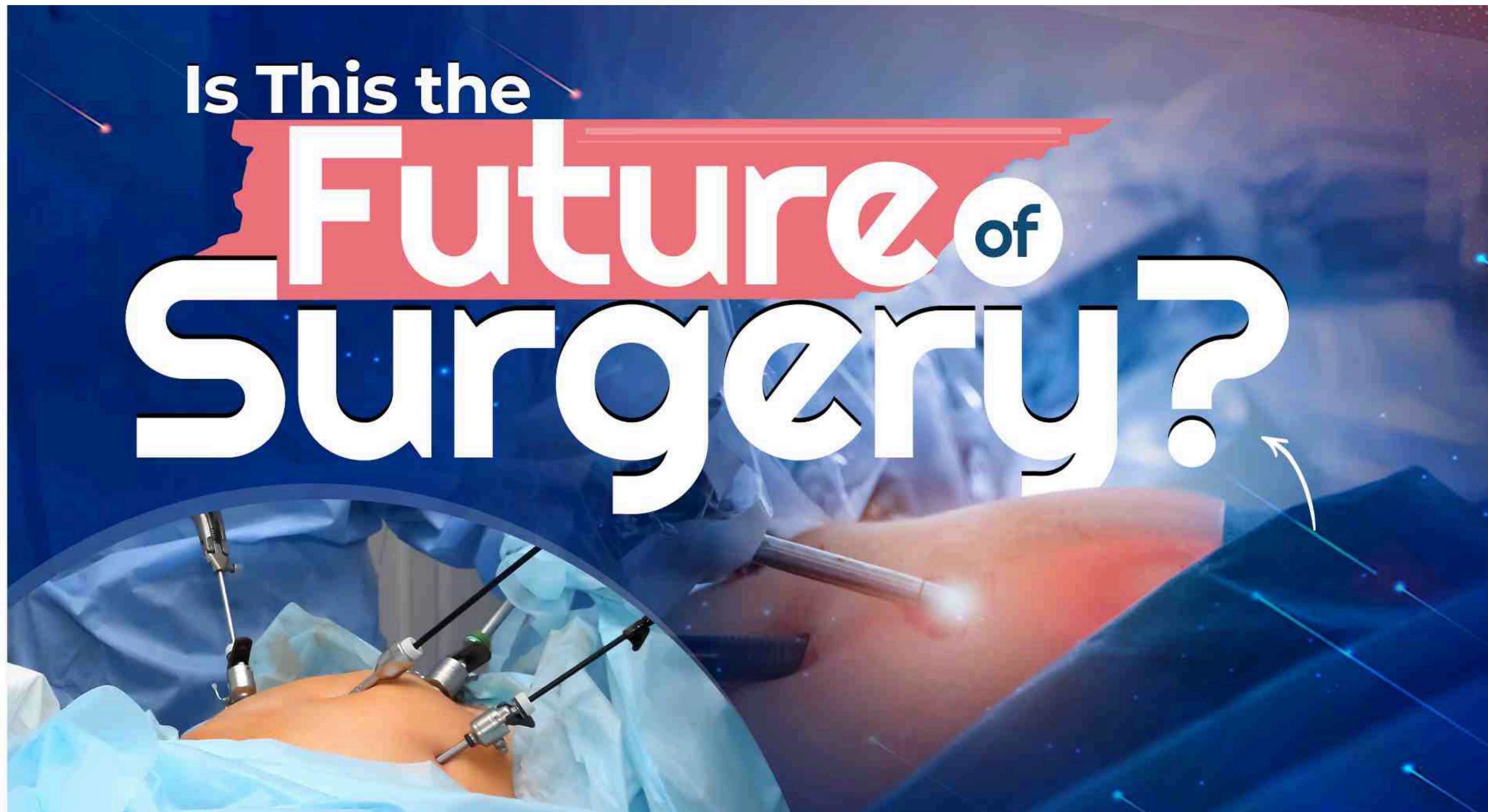
- Guasti ai sistemi robotici, come cortocircuiti o errori nei sensori, possono compromettere l'operazione.
- Dal 2000 al 2013, la FDA ha registrato oltre 10.000 segnalazioni di eventi avversi legati alla chirurgia robotica, con oltre 1.500 incidenti significativi, tra cui ustioni e danni agli organi. Un'analisi delle segnalazioni della Pennsylvania Patient Safety Authority ha evidenziato che il 43,5% degli eventi avversi gravi erano dovuti a lacerazioni accidentali, mentre il 17,5% a emorragie.

La variabilità nella formazione dei chirurghi e la mancanza di protocolli uniformi possono influire sulla sicurezza e sull'efficacia degli interventi.

E poi.....

Complottismo.....

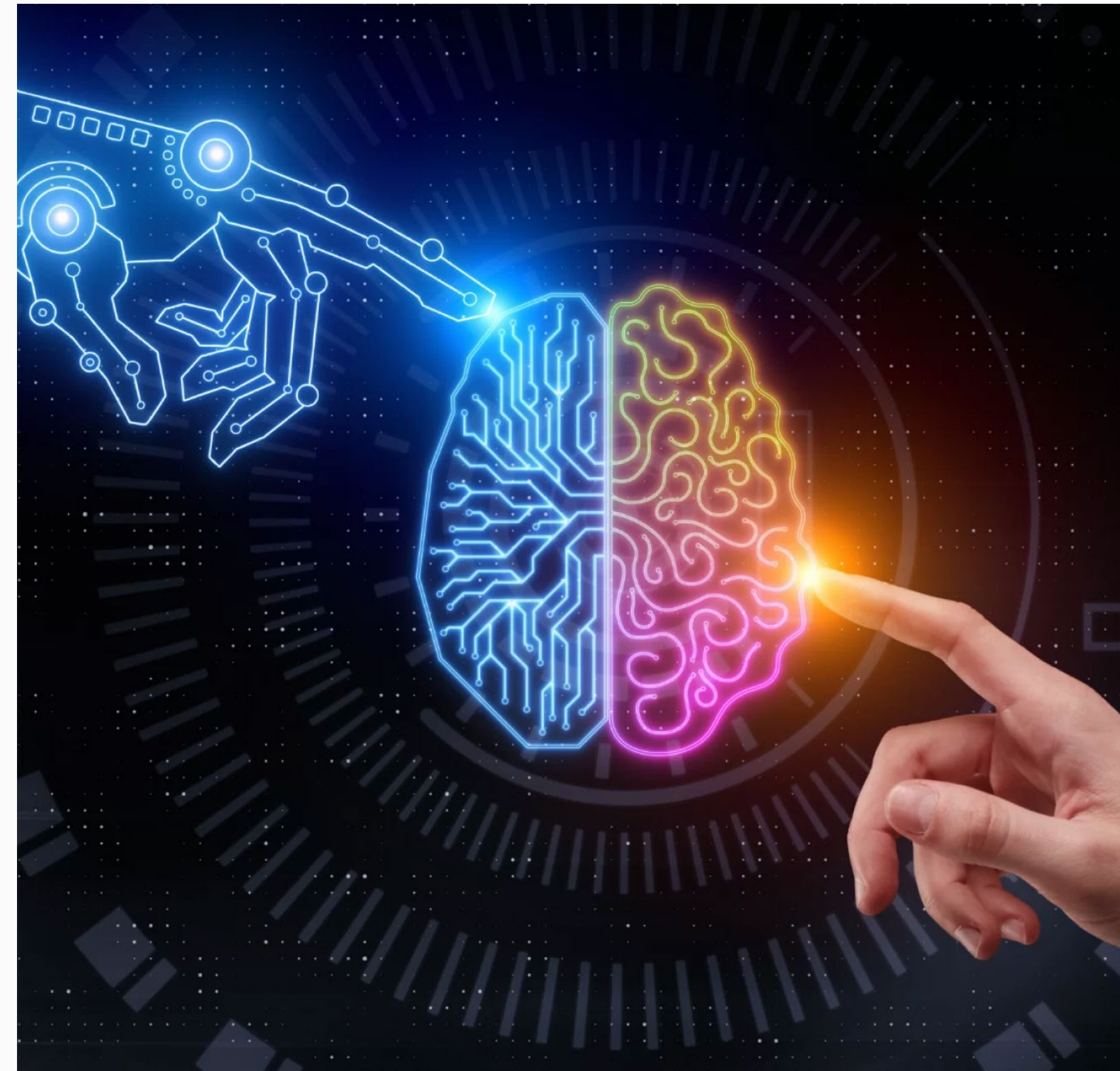
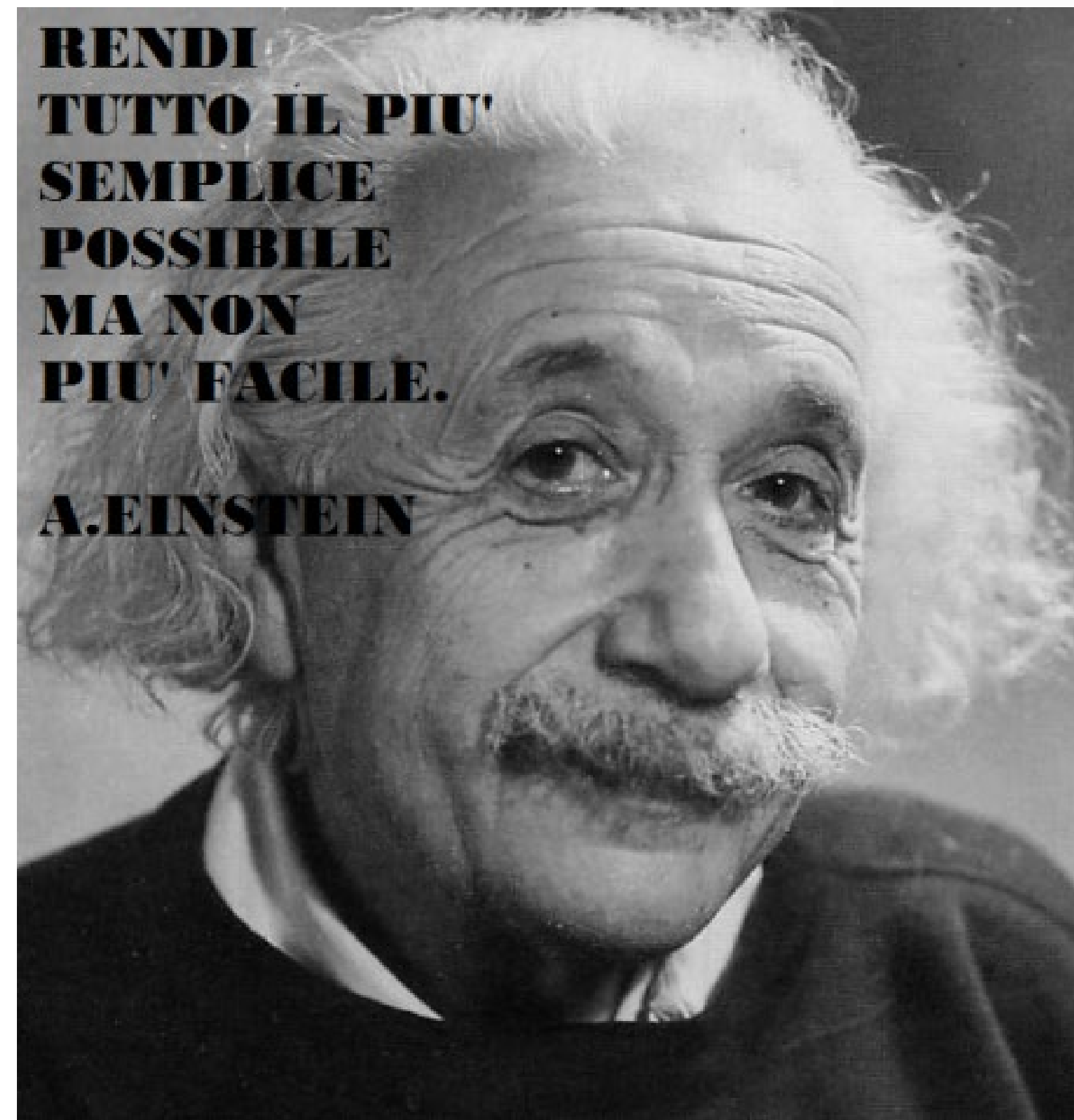




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Grazie

