

# How to perform the most minimal invasive cholecystectomy?

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# Disclosures

- No financial link with any pharmaceutical company selling laparoscopic material
- My presentation is based on personal experience more than on prospective randomized studies

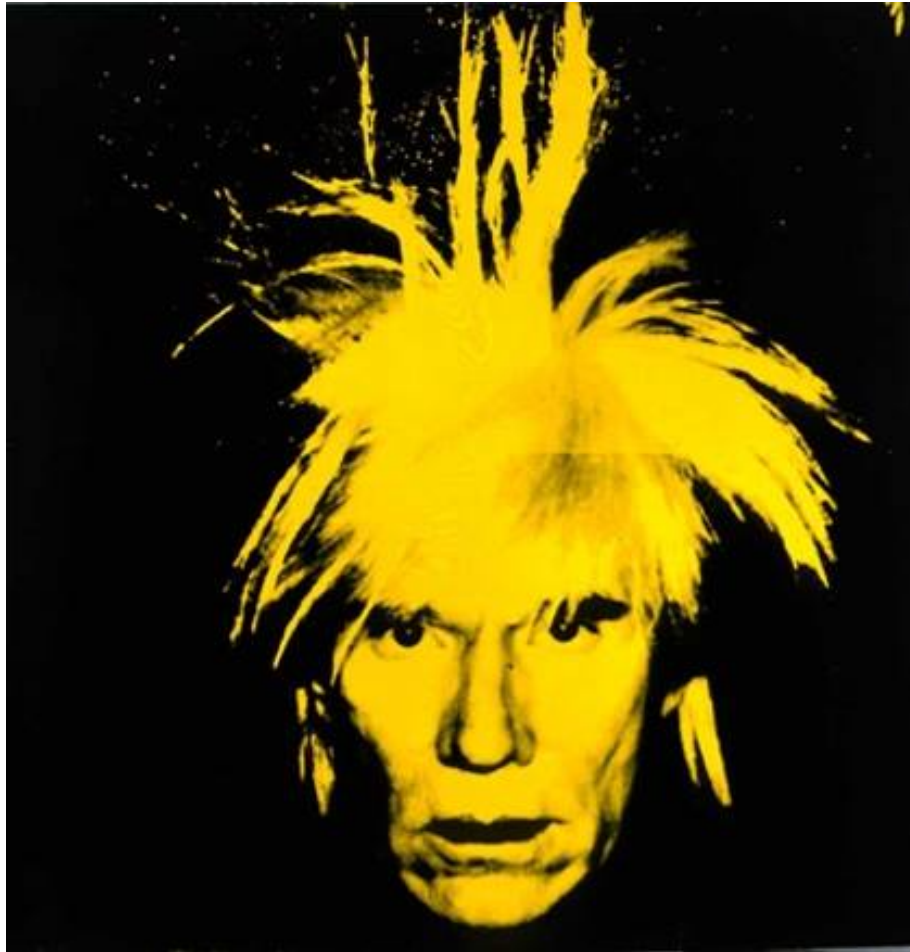


# What is “Minimal invasive”?

- Size & number of surgical wounds
- Hospitalisation
- Pain
- Risks
- Length of surgery
- Applicability
- Complications
  - short term
  - long term
- Cost/effectiveness





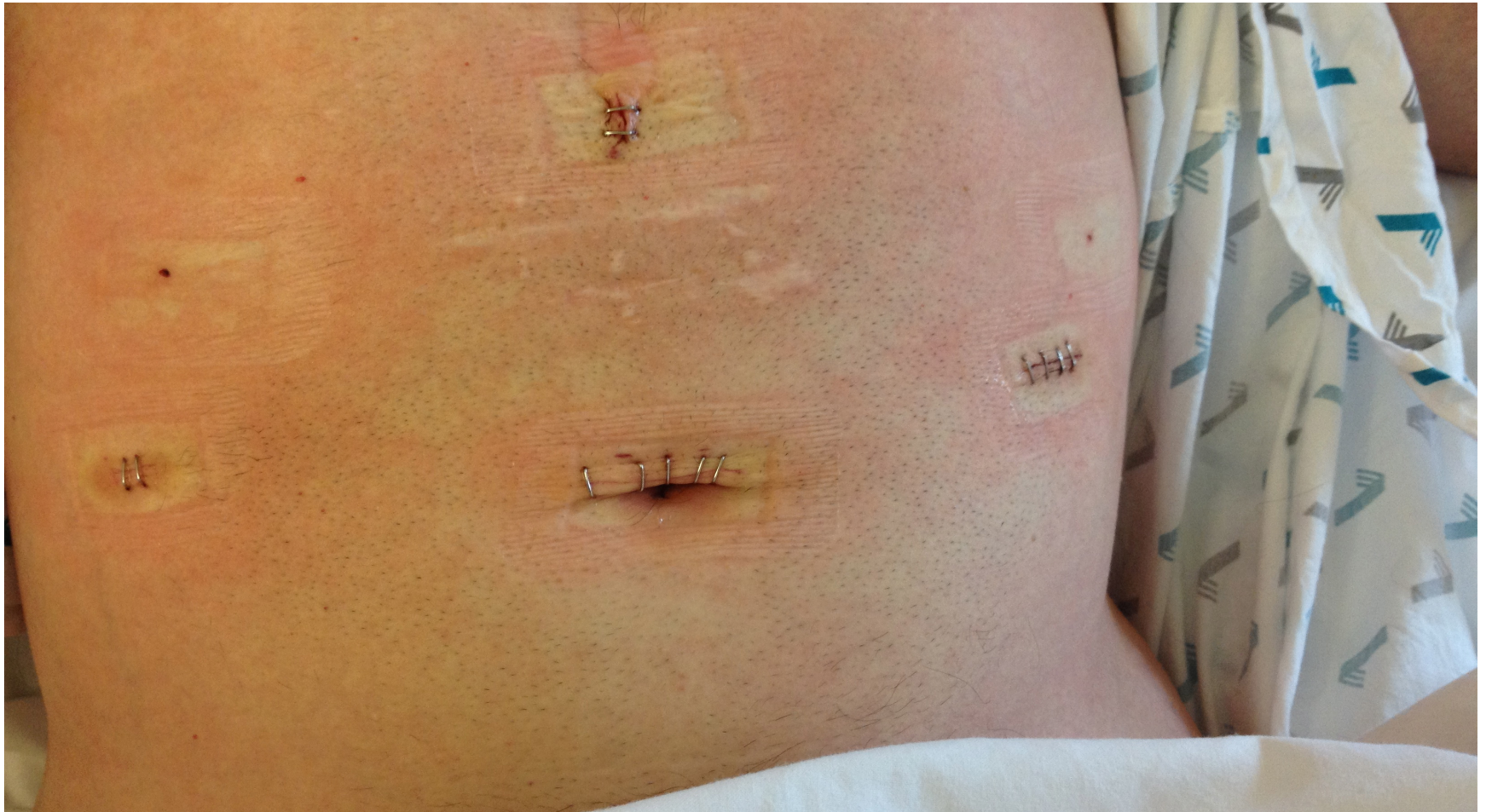


# Open cholecystectomy in the 80's

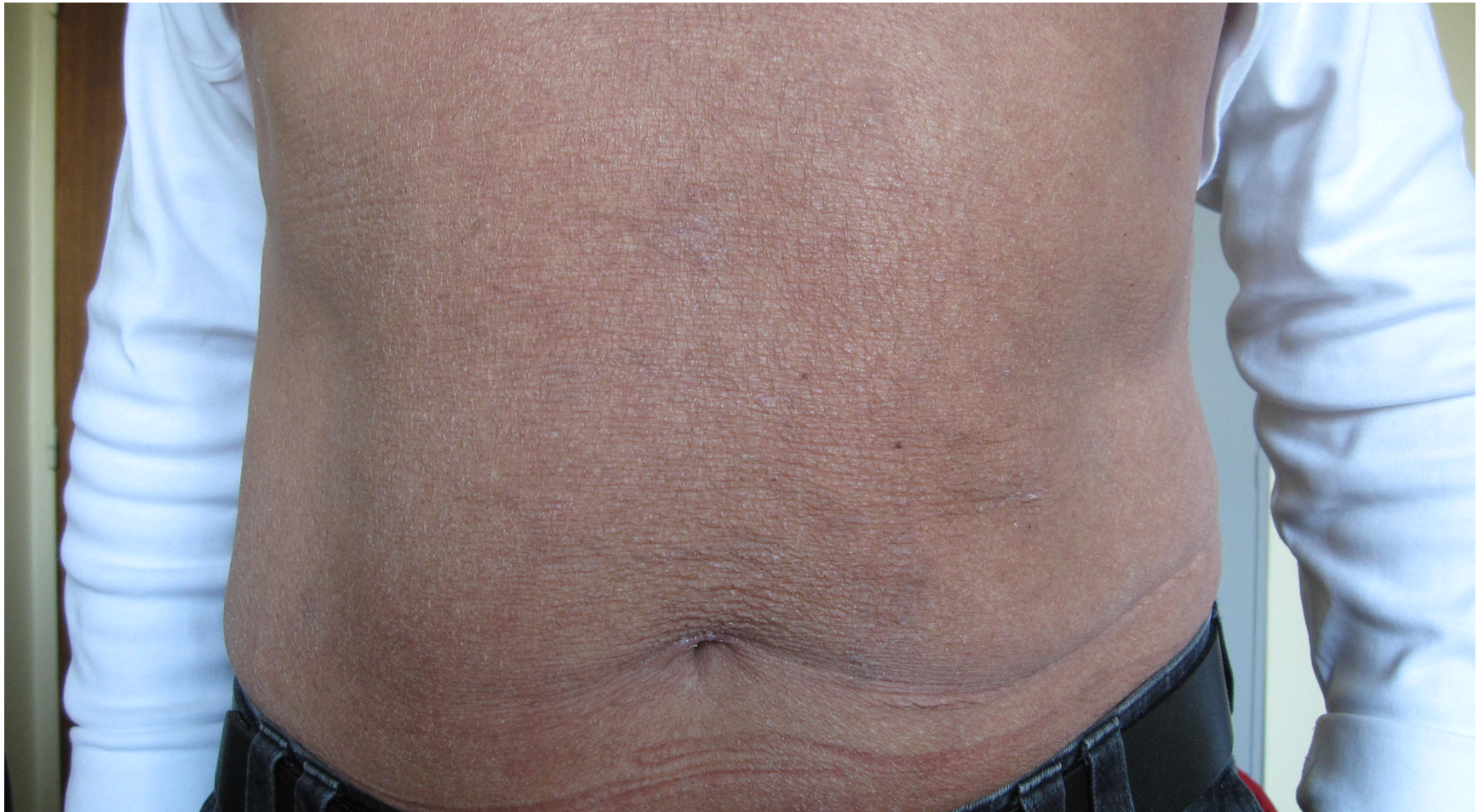
- 5 to 7 days of hospitalisation
- Naso gastric tube
- Surgical drain
- Subcostal incision



# Laparoscopic cholecystectomy

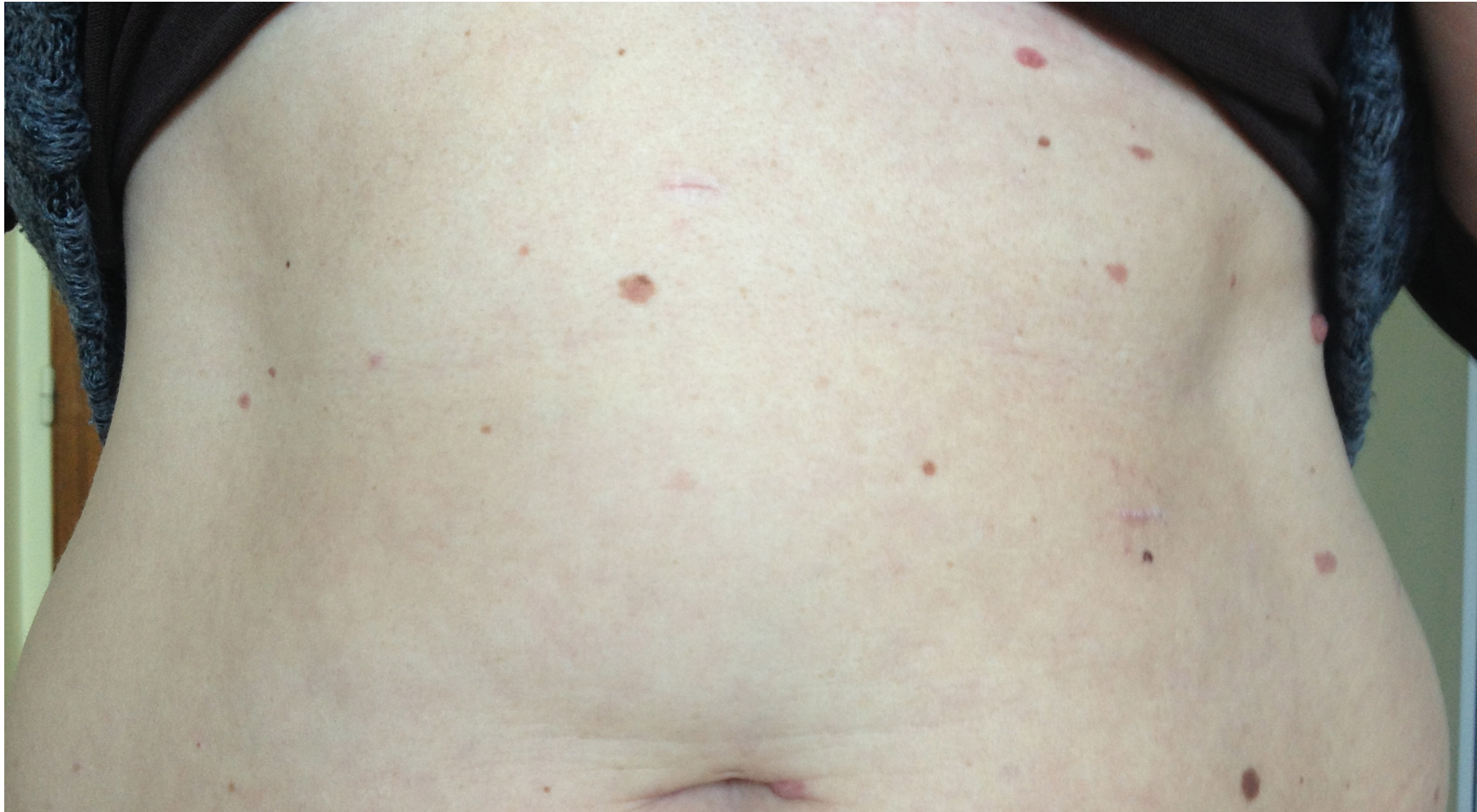








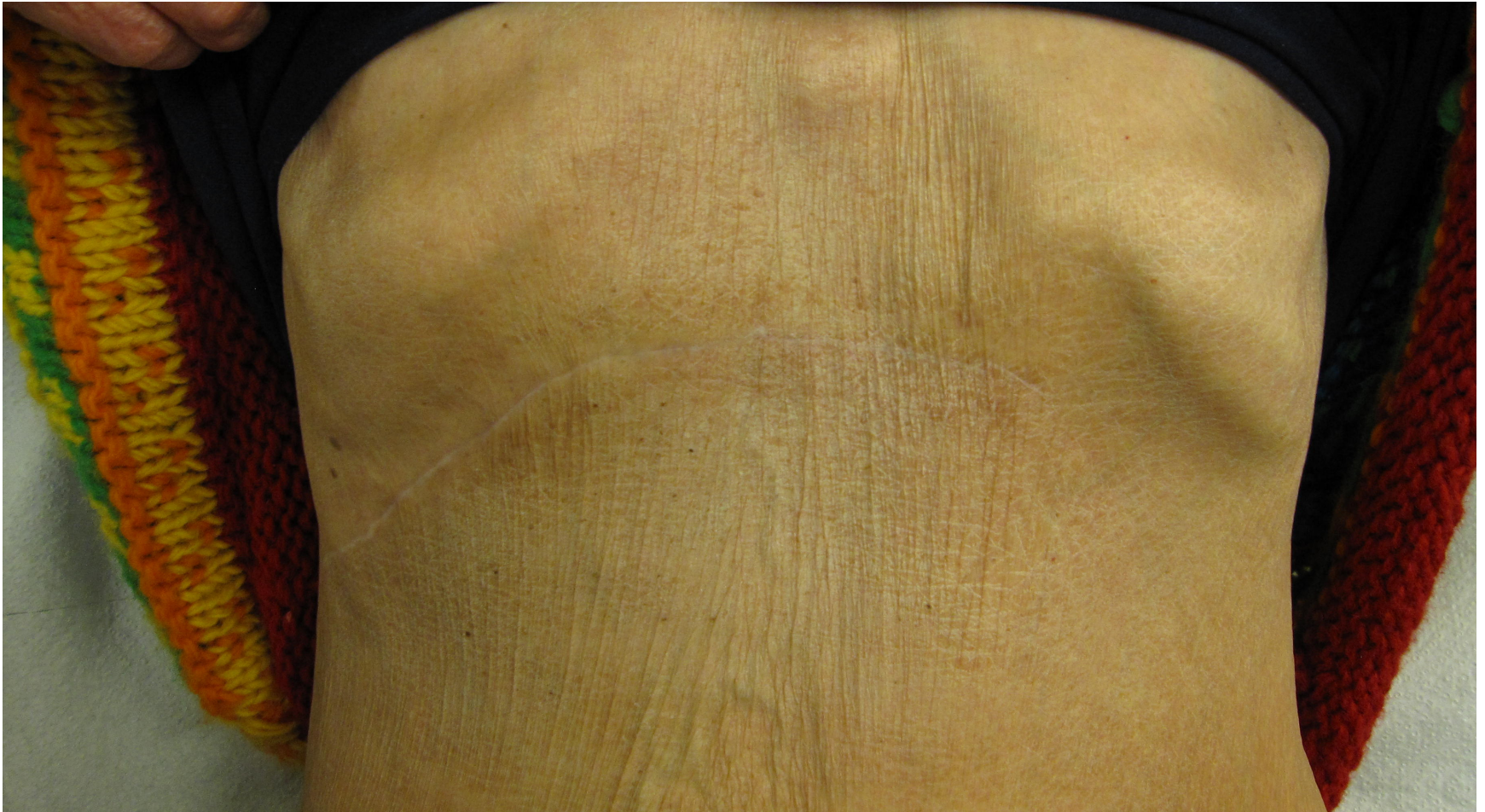




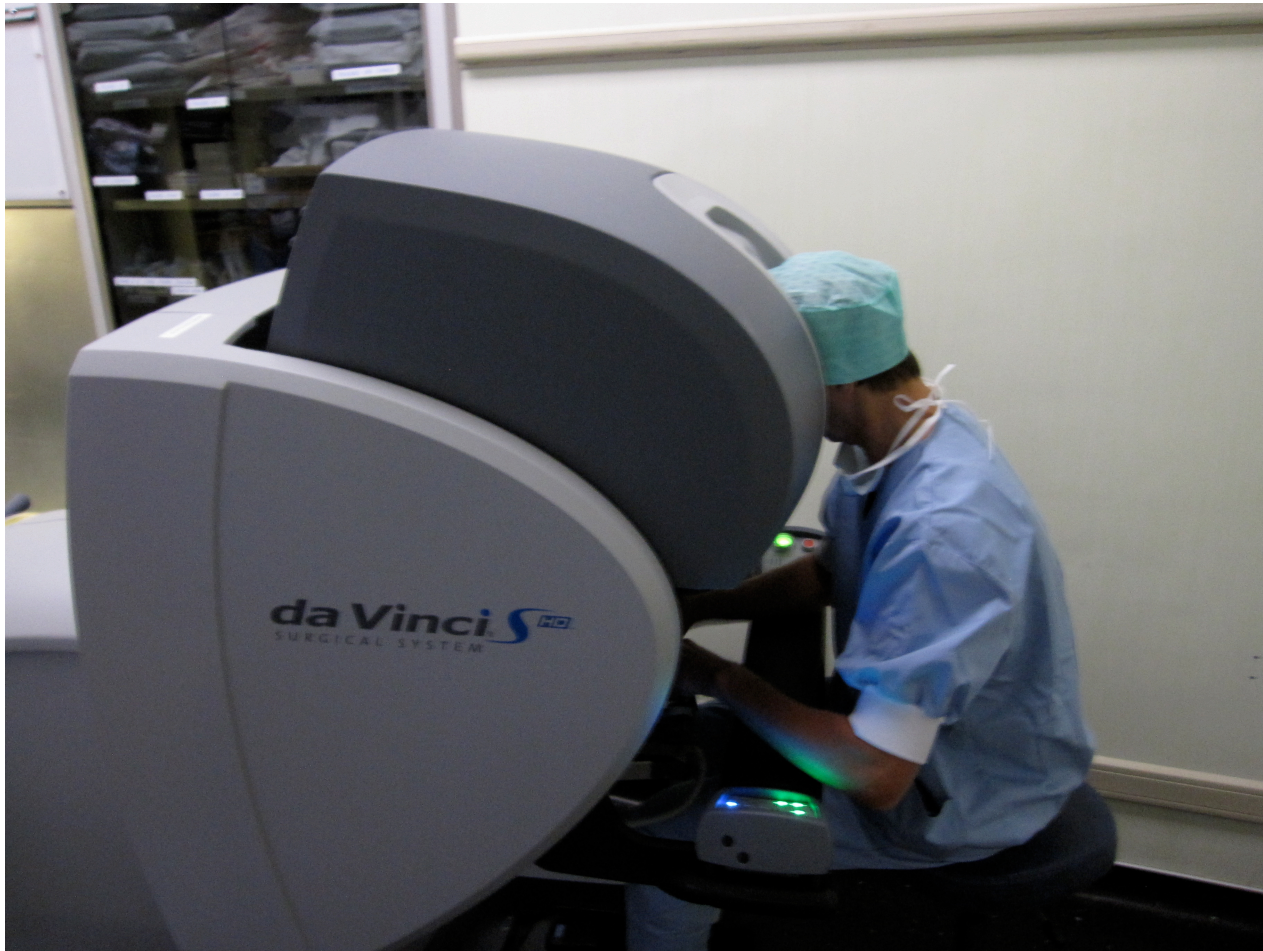




# Liver Transplant Patient

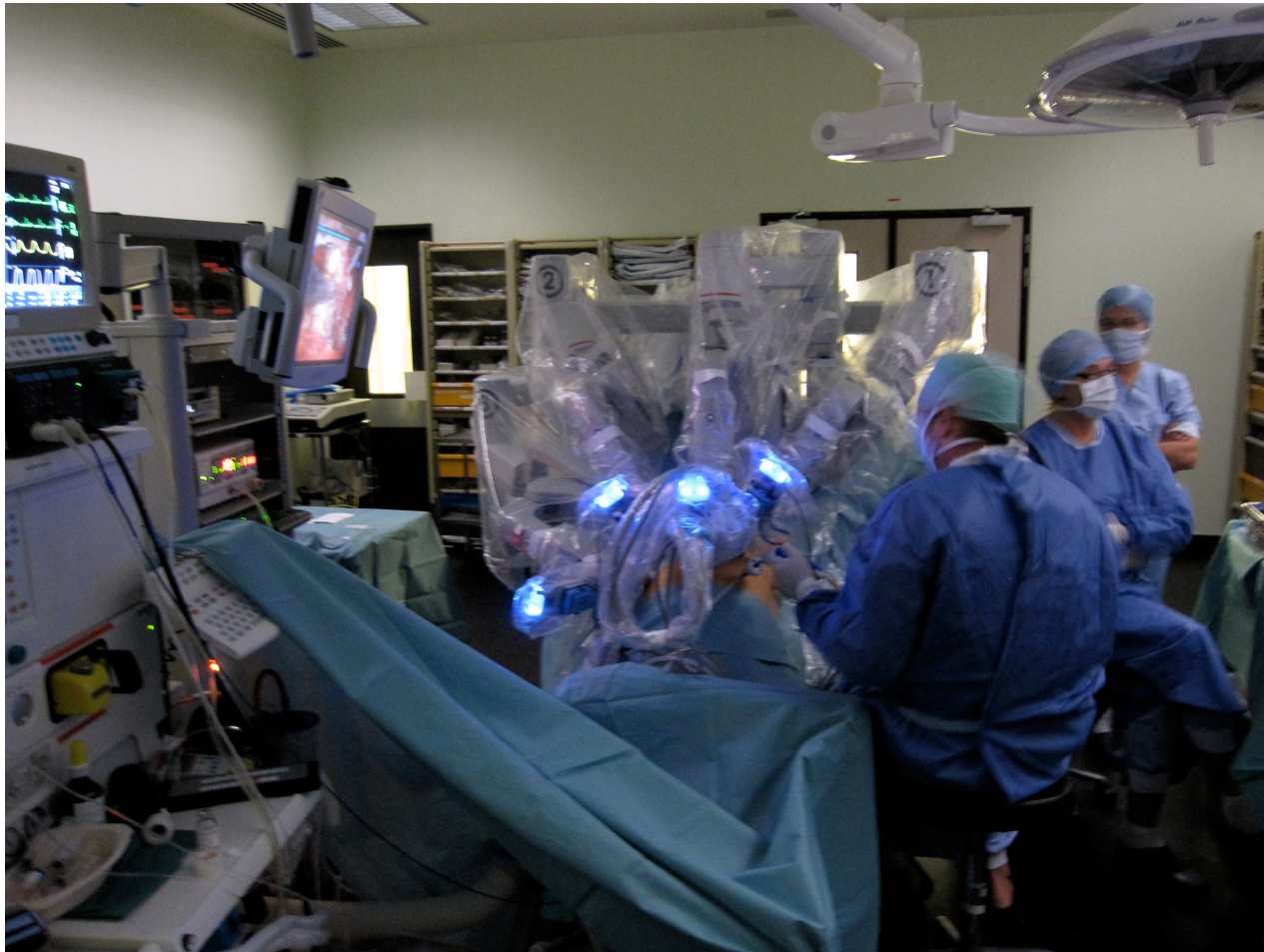


# Da Vinci





# Da Vinci



# Da Vinci

- No progress in 10 years
- No interest in Abdominal Surgery
- Cost:
  - 2.000.000 € for acquisition
  - 200.000€/year for maintenance
  - 2.000€/case

<http://www.davincirobotlawyers.com>


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### Complications from Robotic Surgery

A number of lawsuits are pending against Intuitive Surgical alleging serious injuries and death have resulted from robotic surgeries. They include:

- Surgical tears and burns to nearby tissue and blood vessels. These are often not detected during surgery
- Punctured blood vessel
- Excessive bleeding
- Serious injuries to the bowel
- Vaginal injuries
- Death

Some of these injuries may result in severe complications and may require additional surgery.



# http://www.audetlaw.com/ da\_vinci\_lawsuit/

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## da Vinci Surgical Robot Lawsuits

[Current Cases / Da Vinci Surgical Robot Lawsuits](#)

### Da Vinci (da Vinci) Surgical Robot Lawsuits and Legal Information

Several hospital burn lawsuits involving the "da Vinci Surgical Robot" claim that a number of patients have suffered serious burns. One New York father filed a wrongful death hospital burn lawsuit after his daughter died as a result of burns caused by the robot.

The lawsuit claims that the da Vinci robot caused burns to an artery and intestines when his daughter was having a hysterectomy in a Bronx hospital in August 2010. She died two weeks later. According to the complaint, the da Vinci robot is defective: design flaws include un-insulated surgical arms and use of electrical current that can jump to healthy internal organs and tissue. It also claims that physicians are not properly trained on the device, and that Intuitive Surgery Inc., the manufacturer of the robot, has failed to run randomized tests as to complications with its robot; and it failed to adequately research the da Vinci device or warn patients and the medical community that its use comes with substantial risk of complications and injuries.



The products liability lawsuit filed by this woman's father alleges that the insulation on the shafts of the da Vinci robot caused burns to the artery and her intestines, which injuries resulted in her death.

In addition, reports of numerous other post-surgery complications attributed to use of the da Vinci robot have appeared in medical journals and newspapers. The most common types of harm or injury associated with robotic surgery involving gynecological surgery, e.g., hysterectomy like in the McCalla case, or prostate surgery, e.g., prostatectomy, are:

- > ureter(s) cut
- > vaginal cuff dehiscence
- > organ puncture
- > internal burns
- > tears of intestines or blood vessels
- excerpted from published reports

To review a potential claim for yourself, a friend or family member, request a free consultation and case evaluation.

You may contact the Law Firm of Audet & Partners, LLP by filling out the simple form on the right hand side of this page, or by calling us, toll-free at (800) 965-1461. Act now, since you may risk your potential case if you delay contacting an attorney about Da Vinci Surgical Robot Lawsuits.

### Understanding the Risks Associated with the Da Vinci Surgical Robot

When the da Vinci Surgical Robot was first marketed in the U.S. in 2000, it was heralded by Intuitive Surgical, Inc. as providing a means for using laparoscopic incisions resulting in shorter recovery times and reduced blood loss. An aggressive marketing campaign aimed at encouraging patients to request robotic surgery has resulted in the medical devices being acquired by over 2,000 hospitals as of 2011. This robotic surgery device is used in hundreds of thousands of surgical procedures annually, including prostate surgery, heart surgery, gastric bypass, hysterectomies, gall bladder removal surgery, and many other surgical procedures.

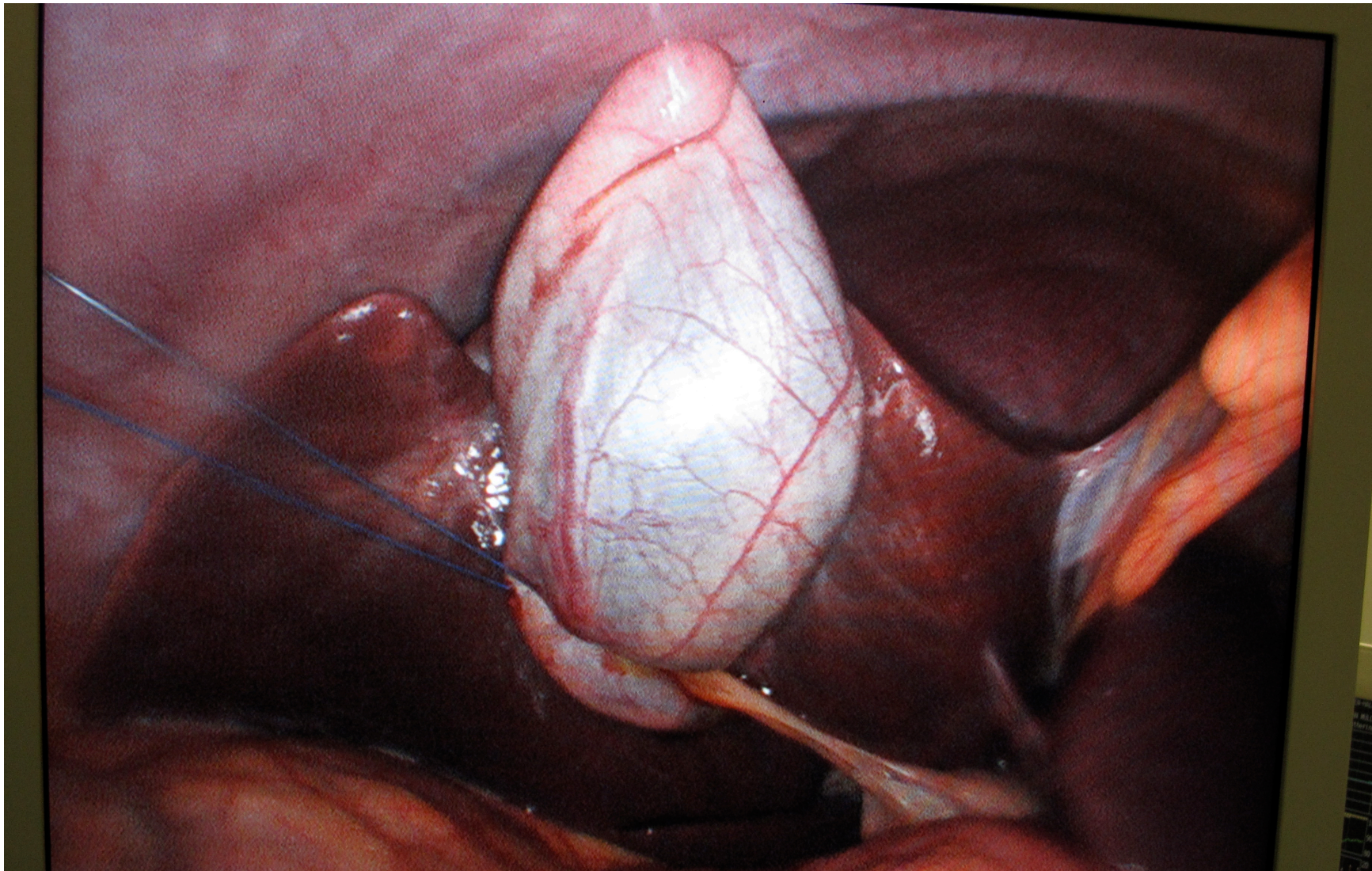


# SILS

(Single Incision Laparoscopic Surgery)







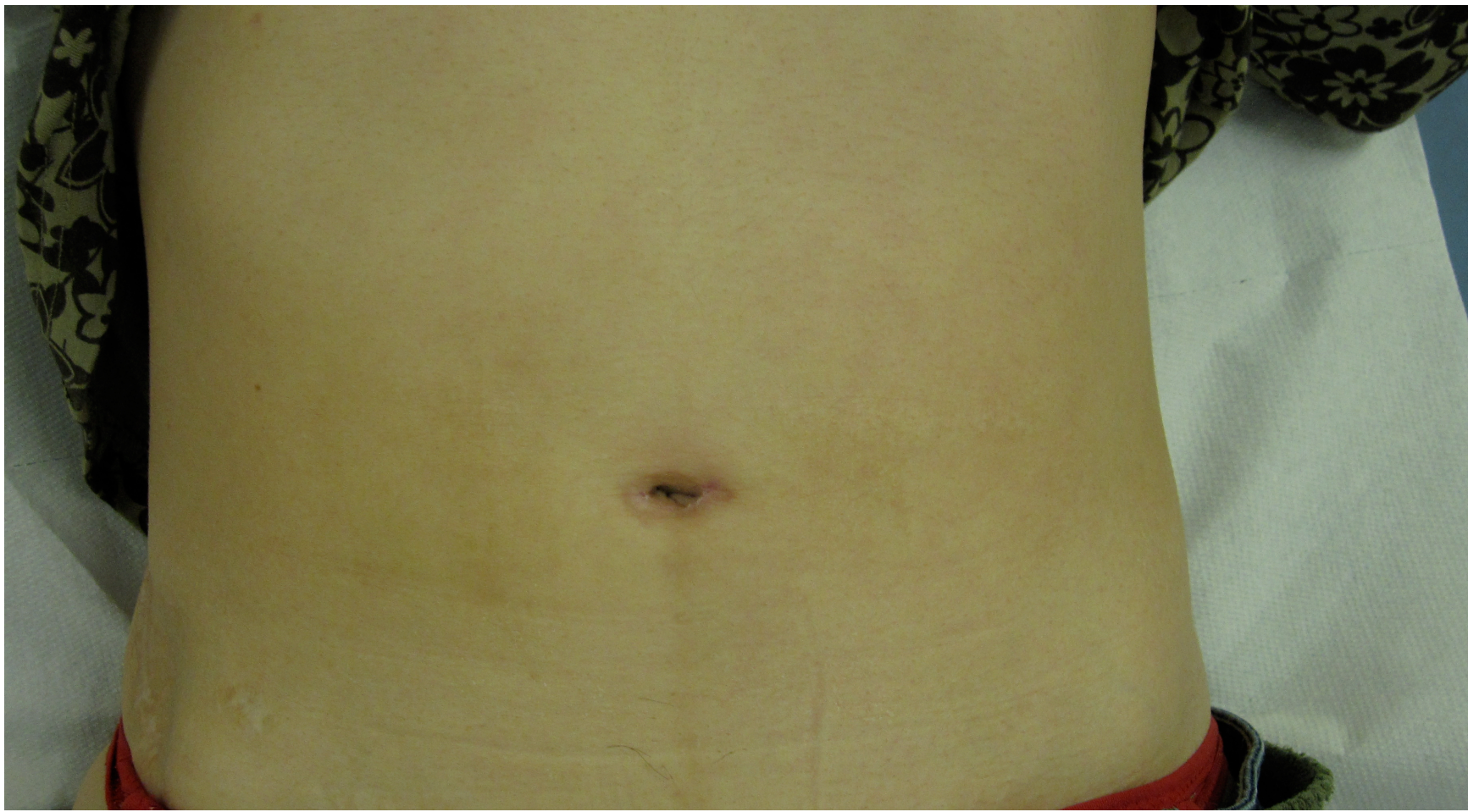


















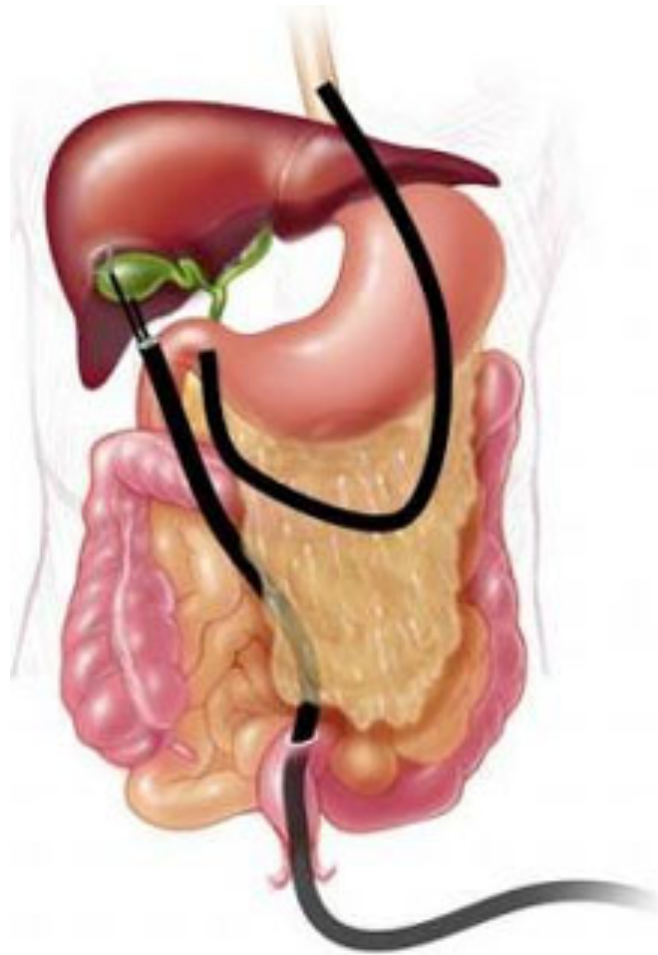
# SILS

- is feasible
- is a variation of classical laparoscopy
- More pain?
- More incisionnal hernia?
- Applicability?
- Interest?



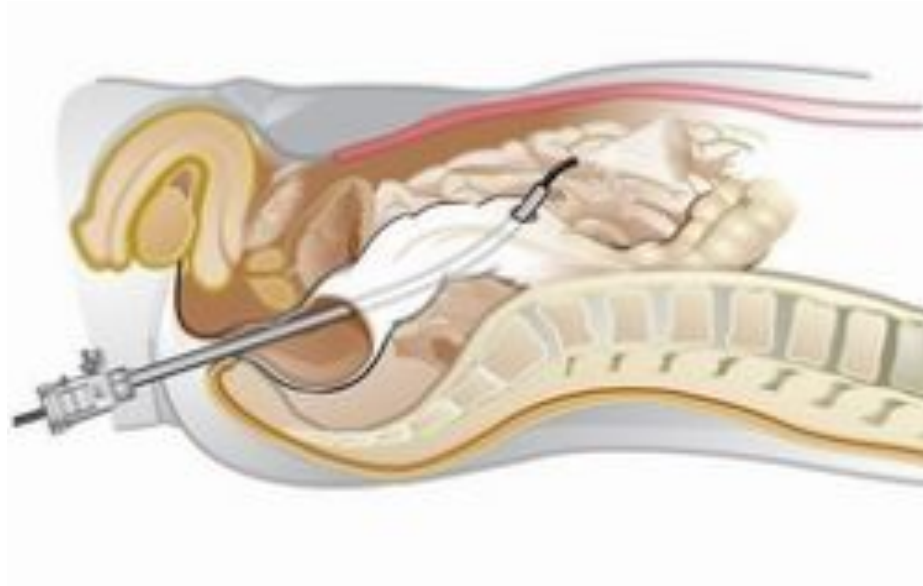
# NOTES

## Natural Orifice Transluminal Endoscopic Surgery



# NOTES

## Natural Orifice Transluminal Endoscopic Surgery





*"Nurse, get on the internet, go to SURGERY.COM,  
scroll down and click on the 'Are you totally lost?'  
icon."*

# NOTES

- Hybrid NOTES
- Vagina route: feasible
- Trans-rectal or trans-gastric route ??
- Applicability?
- Interests?
- Risks?

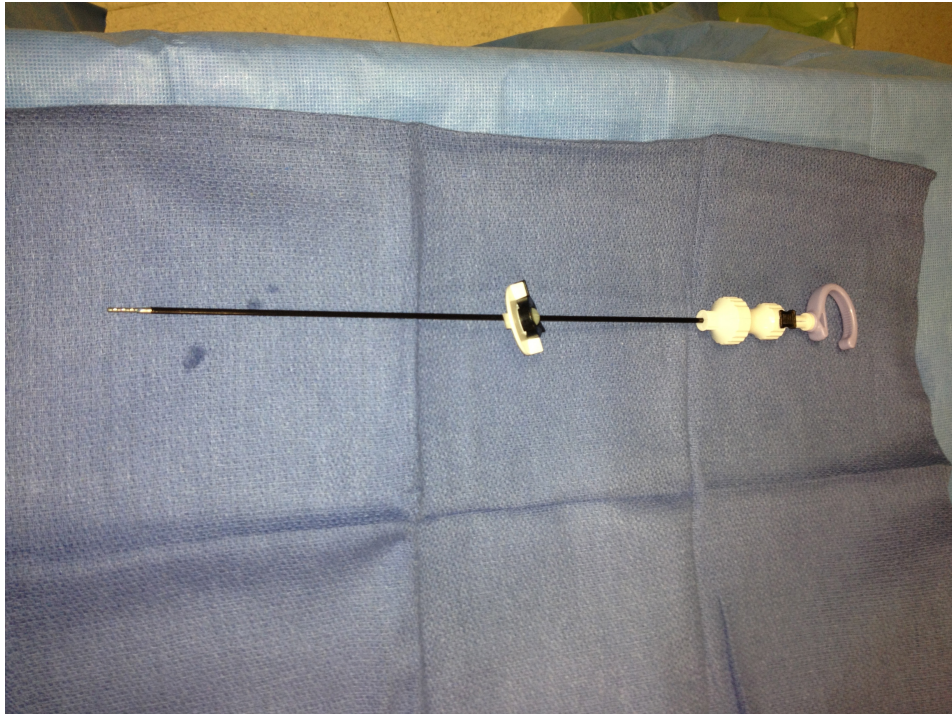


**MiniLap**

### **MiniLap**

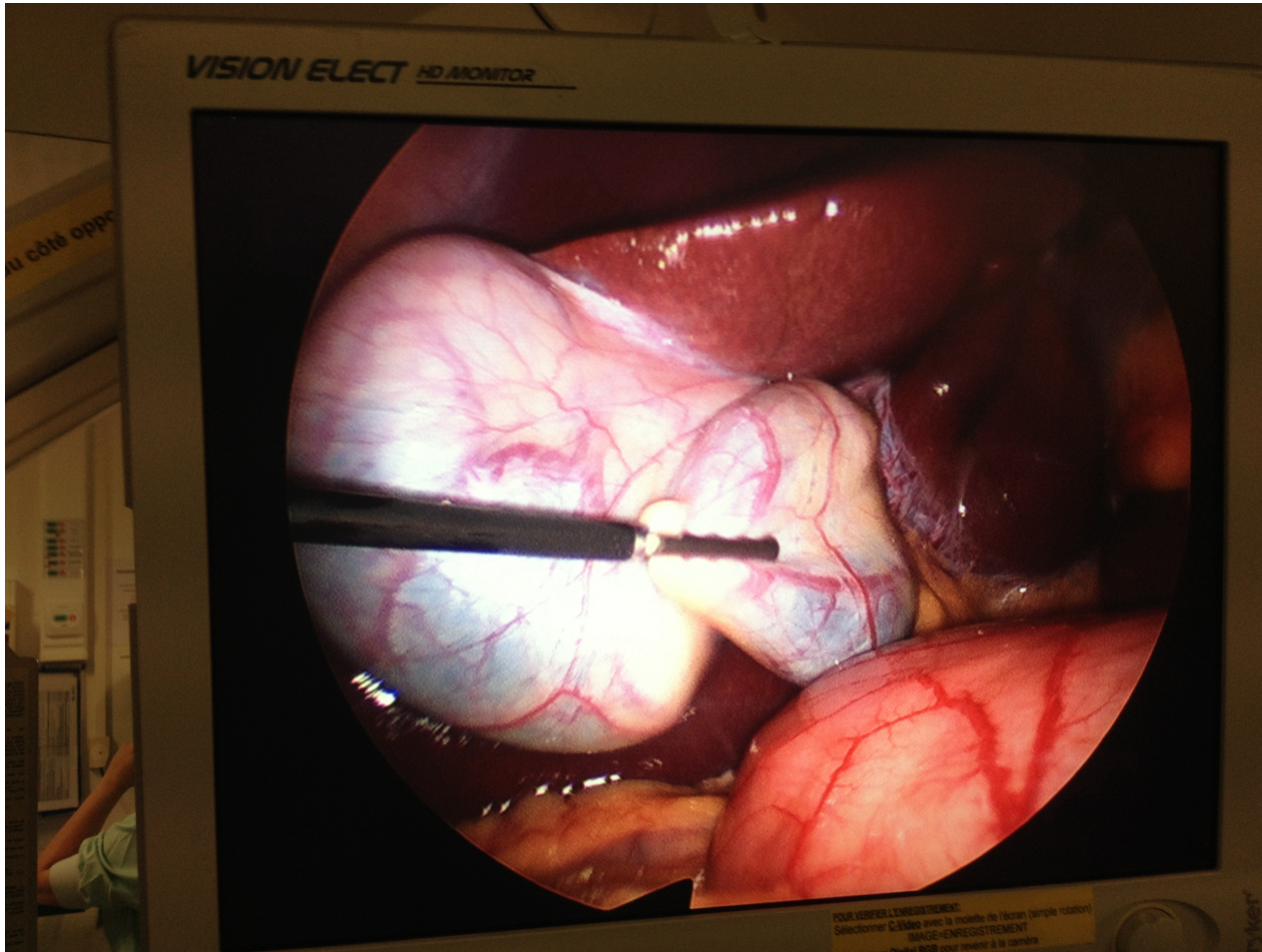
Stryker's MiniLap line combines access and instrumentation in one device. These 2.3mm ultra minimally invasive instruments assist in the manipulation, retracting, and grasping of human tissue while reducing patient scarring and eliminating the necessity of port suture closure.



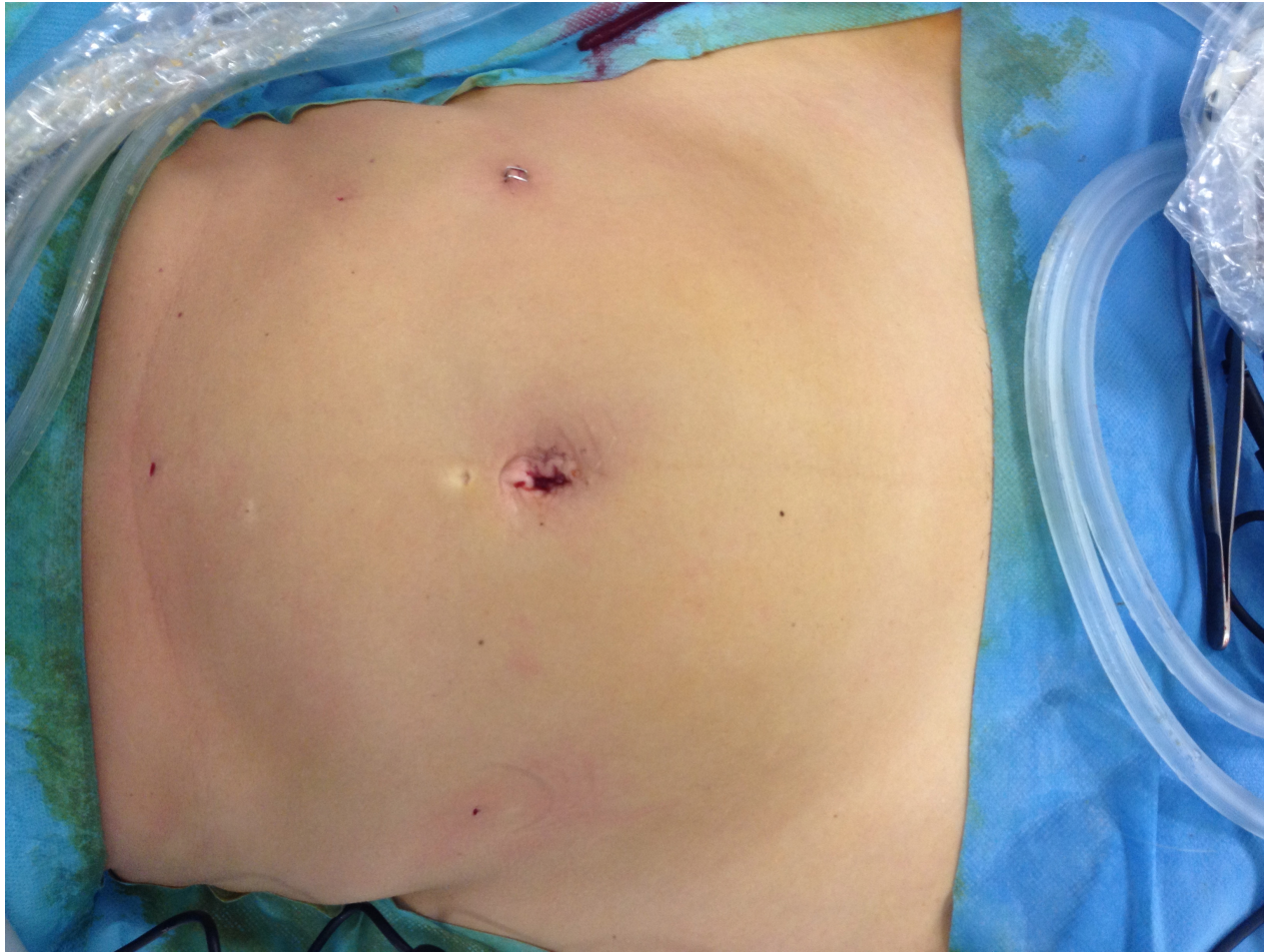


















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# Minimal Invasive Cholecystectomy

- Size of the Wound
  - 5 mm optic
  - 2 mm trocars
- Length of Hospitalisation
  - day case
- No complication (pain, incisionnal hernia)
- Surgical Comfort
- Cost/effectiveness

# Minimal Invasive Cholecystectomy

- Good surgical indications
  - Do not operate if there is no need to!
- Remove the asymptomatic lithiasic gallbladder in abdominal surgery
- Operative Cholangiography
- Surgical Principles!