

ESGE – From revolution to  
continuous innovation

BE ambitious  
BE curious  
BE in Brussels

SPIGELIAN HERNIA

Anastasia Ussia



**ESGE 25<sup>th</sup> Annual Congress**

2<sup>nd</sup> – 5<sup>th</sup> October 2016  
Square · Brussels

# 34 years old woman

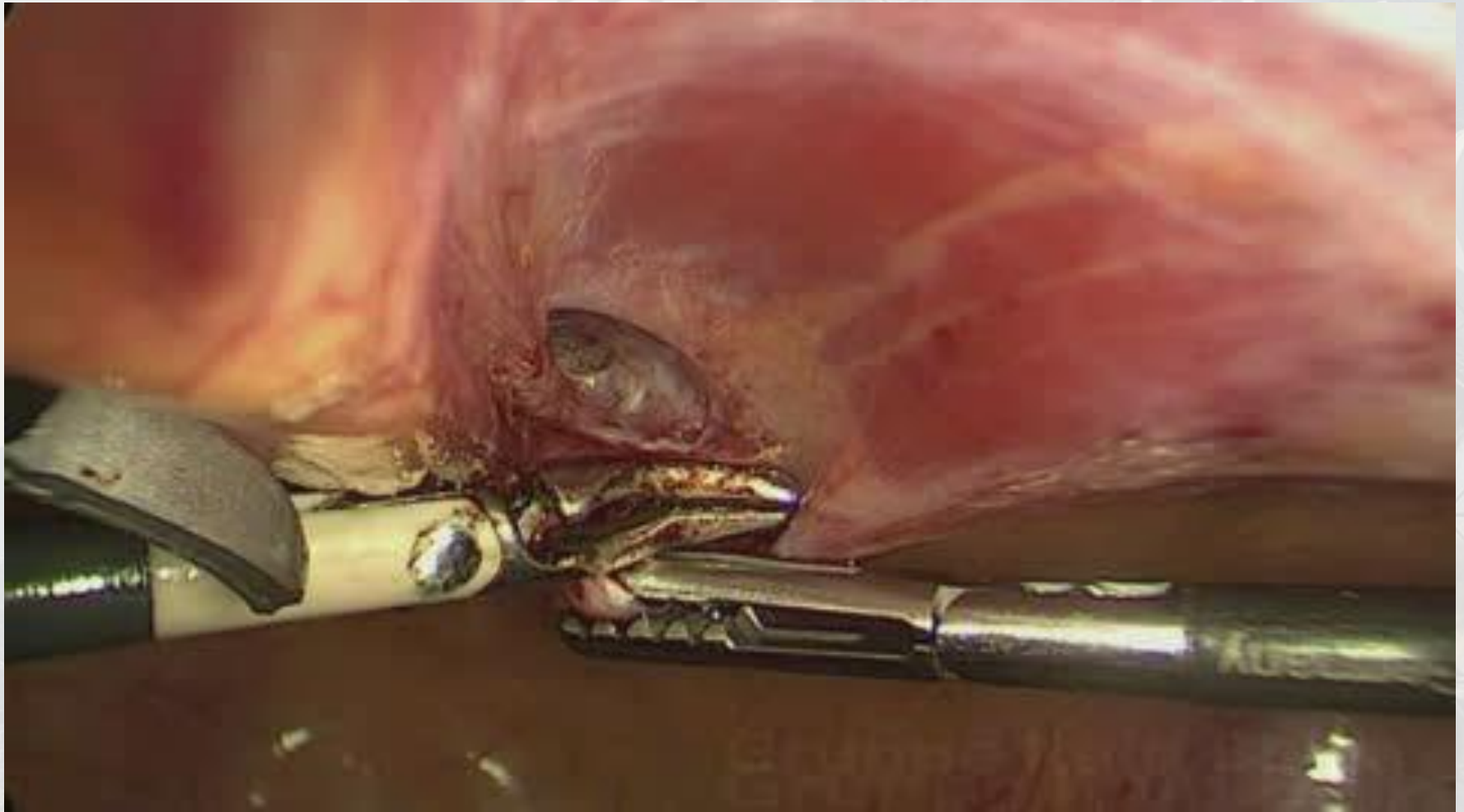
- 2010 : Operated for 'endometriosis'
- and afterwards severe pain mainly in the right fossa ; extending up to umbilicus and radiating to upper right thigh and also perineal.
- Diagnosis of 'nerve lesion'
- Repeat laparoscopy : negative
- 2015 : IVF -> baby
- 2016 .....invalidating pain, wheel chair , could not move , difficulty to walk.....

# Diagnostic laparoscopy

- Endometrioma 3 cm left side
- Endometriosis of the appendix



# Hernia



ESGE 25<sup>th</sup> Annual Congress

2<sup>nd</sup> – 5<sup>th</sup> October 2016  
Square · Brussels

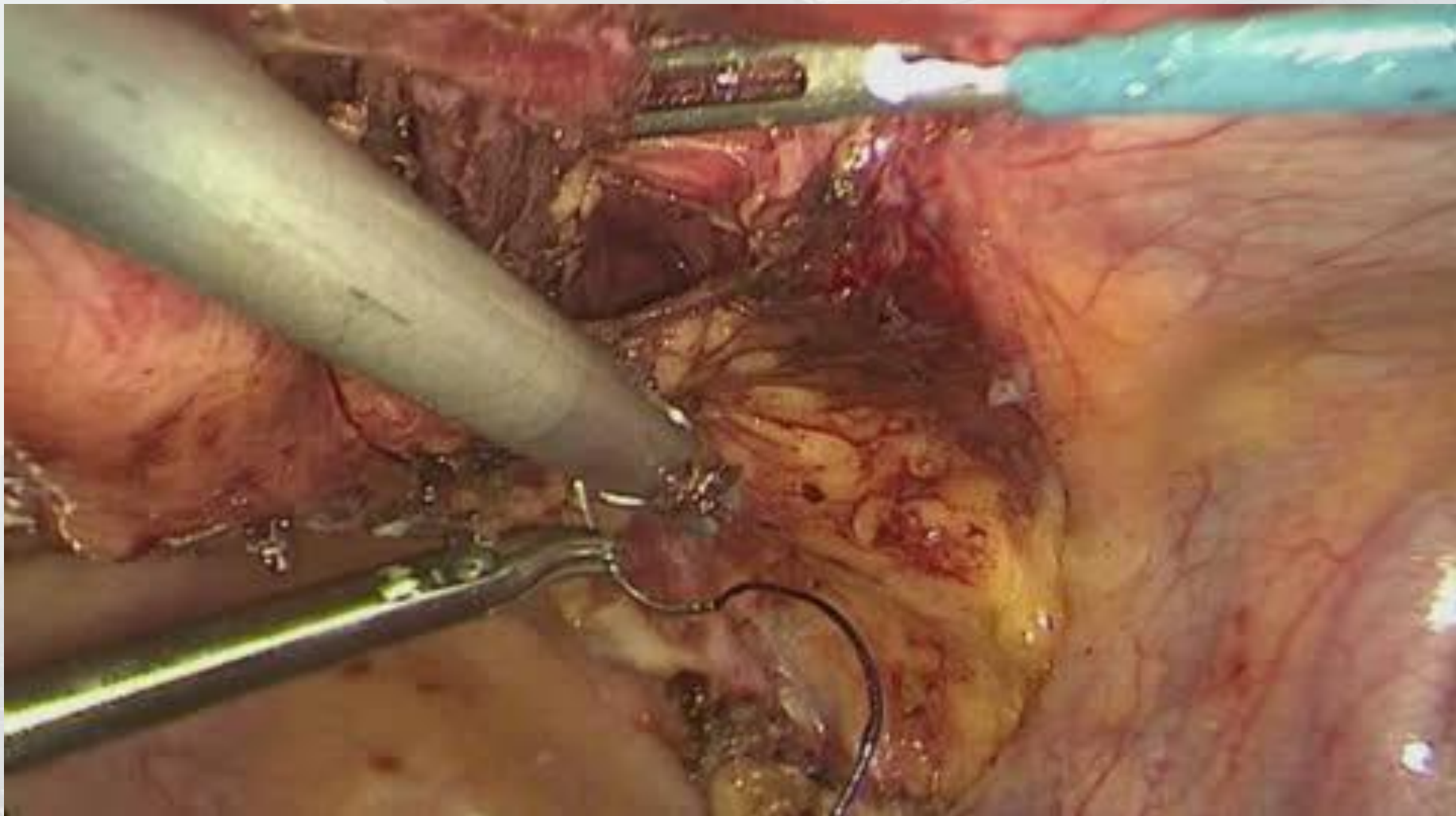


ution to  
vation



ESG

# Suture



ESGE 25<sup>th</sup> Annual Congress

2<sup>nd</sup> – 5<sup>th</sup> October 2016

Square · Brussels

# Spigelian hernia in gynecology



- Next morning the patient told us 'I am ok' and she start to walk in the afternoon

# Spigelian Hernia

- First recognized by Josef T. Klinkosh in 1764, and named after Adrian van der Spieghel (1576–1635 Brussels), an anatomist who first described the semilunar line.
- A hernia through the spigelian fascia, which is the aponeurotic layer between the rectus abdominis muscle medially, and the semilunar line laterally.
- Rare : 1% of hernia's : 482 publications in surgery





# Spigelian Hernia : symptoms

- either an intermittent mass
- or localized pain,
- or signs bowel obstruction

Diagnosis not very clear

- Ultrasound
- CAT scan

Predisposing factors

- obesity, rapid weight loss, multiple pregnancies, Chronic Obstructive Pulmonary Disease (COPD), chronic constipation, ascites, traumas, and previous surgery

# Spigelian Hernia : repair

- Mesh : a classical preperitoneal repair (Wantz), local anaesthesia or general sedation; day-surgery. An oblique or horizontal incision, the aponeurosis of the oblique major and of the oblique minor is opened. The hernia sac is isolated and reduced. A mesh in the preperitoneal space, anchored to the muscles and aponeuroses. The aponeurosis of the oblique major and of the oblique minor are closed.

**G. Campanelli · D. Pettinari · FM. Nicolosi**  
**E. Contessini Avesani**

## **Spigelian Hernia**

# Spigelian Hernia : laparoscopic repair

- N=35 ; 16 since 2010 ; mostly case report
- no comparative data with abdominal repair. Overall, laparoscopic repair of the SH is a safe and acceptable method (Barnes TG, McWhinnie DL. *Laparoscopic Spigelian Hernia Repair: A Systematic Review*. Surg Laparosc Endosc Percutan Tech. 2016;26:265-270.)
- The high incidence of Spigelian hernias associated with direct inguinal hernias suggests a high index of suspicion for Spigelian hernias during laparoscopic inguinal herniorrhaphy (Tran H, Tran K, Zajkowska M, Lam V, Hawthorne WJ. Single-incision *laparoscopic repair* of *Spigelian* hernia. JSLS. 2015;19:e2015.)
- Mesh not strictly required

# Spigelian hernia and trocar insertion

## Suggestive evidence

- Bassi A, Tulandi T. Small bowel herniation through a spigelian defect within 48 hours after laparoscopy. *J Minim Invasive Gynecol* 2013;20:392-3
- Tsu JH, Ng AT, Wong JK, Wong EM, Ho KL, Yiu MK. Trocar-site hernia at the 8-mm robotic port after robot-assisted laparoscopic prostatectomy: a case report and review of the literature. *J Robot Surg.* 2014;8:89-91.
- *Spaliviero M, Samara EN, Oguejiofor IK, DaVault RJ, Albrecht RM, Wong C.* Trocar site spigelian-type hernia after robot-assisted laparoscopic prostatectomy. *Urology.* 2009;73:1423-1425
- *Slakey DR, Teplitsky S, Cheng SS.* Incarcerated Spigelian hernia following laparoscopic living-donor nephrectomy. *JSLS.* 2002;6:217-219

ESGE 25<sup>th</sup> Annual Congress

2<sup>nd</sup> – 5<sup>th</sup> October 2016

Square · Brussels

# Spigelian Hernia : conclusions

- Spigelian hernia remains a rare condition. Most reports are hernia-pain-bowel incarceration
- Increase in reports over the last decade
- Suggestive evidence
  - that trocar insertion might be causally related
  - that diagnosis is difficult for smaller SH
  - Laparoscopic suture is sufficient for smaller SH
- Message for us gynecologist
  - Be aware of SH when pain in abdominal wall
  - Be ready to diagnose and repair
  - ? Trocar insertion : avoid semilunar line