

eTEP and Abdominal hernia

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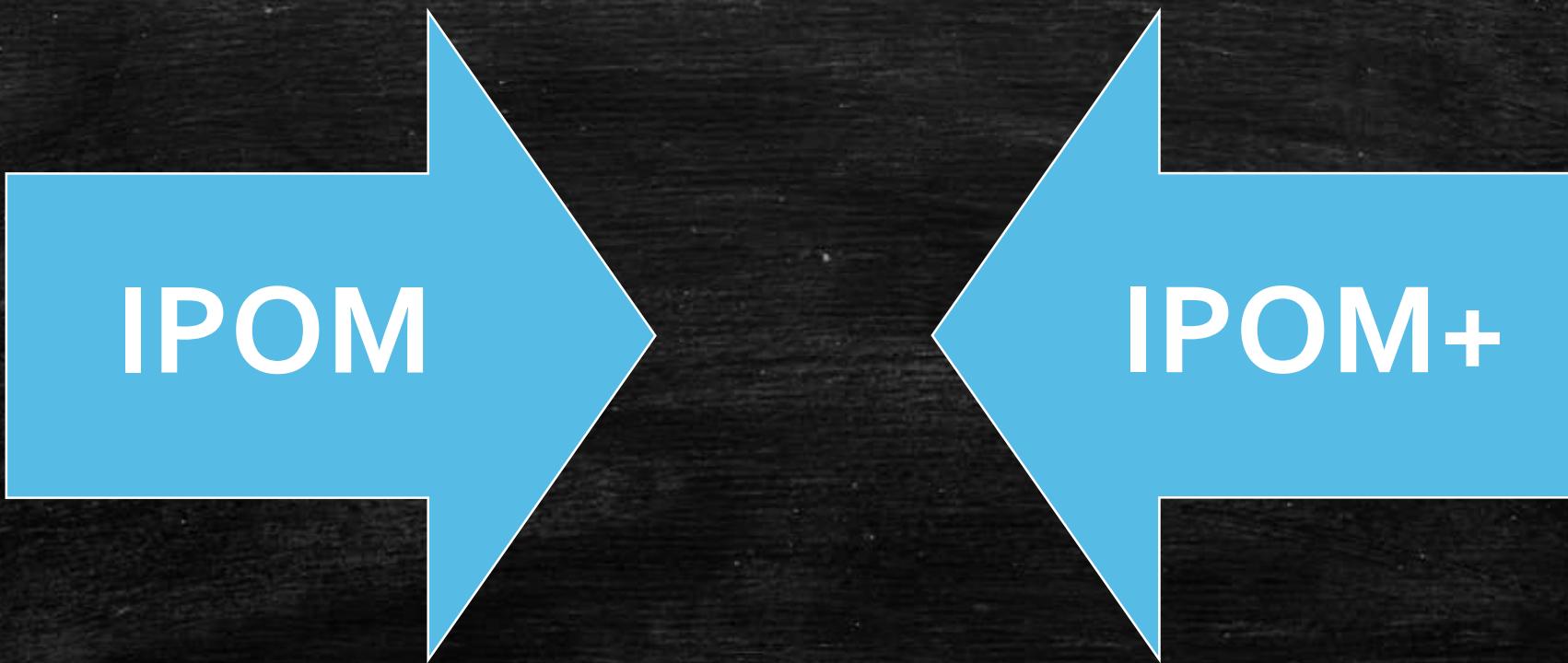
Le Huu Nho R, Mege D, Ouäissi M, Sielezneff I, Sastre B. Incidence and prevention of ventral incisional hernia. J Visc Surg. 2012 Oct;149(5 Suppl):e3-14. doi: 10.1016/j.jviscsurg.2012.05.004. Epub 2012 Nov 9. PMID: 23142402

Pierce RA, Spitler JA, Frisella MM, et al. Pooled data analysis of laparoscopic vs. open ventral hernia repair: 14 years of patient data accrual. SurgEndosc. 2007;21(3):378-86

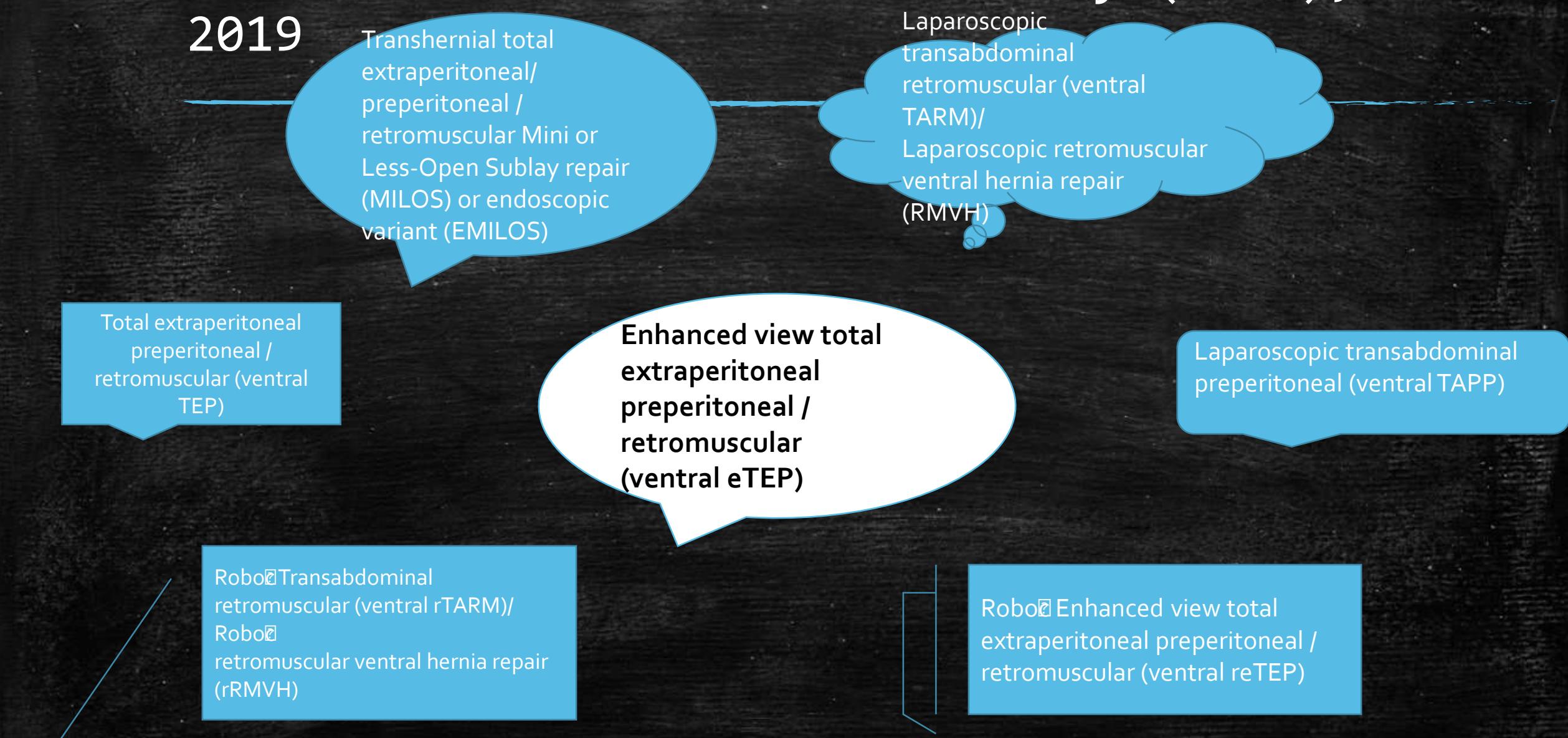
- 15% of all abdominal hernias / ventral and incisional
- 10-20% burden in laparotomy
- ideal technique for ventral and incisional hernia,
 - low recurrence rate
 - least complications
 - it is minimal invasive,
 - reduces postoperative recovery period,
 - reduces and prevents expenses and
 - reduces the hospital stay.

International Endohernia Society (IEHS),
2014

Guidelines for laparoscopic treatment of ventral and incisional
abdominal wall hernias



International Endohernia Society (IEHS), 2019



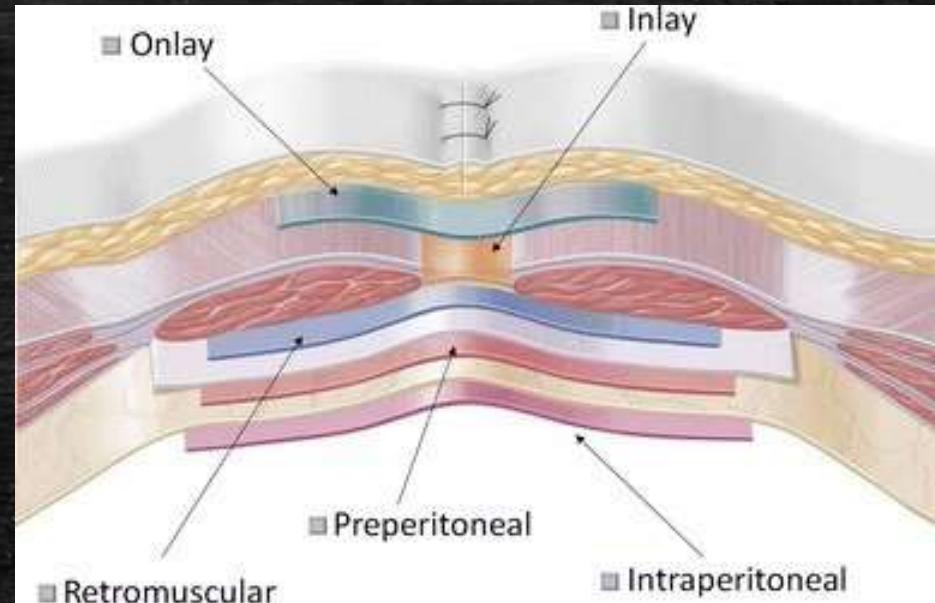
Al Chalabi H, Larkin J, Mehigan B, McCormick P (2015) A systematic review of laparoscopic versus open abdominal incisional hernia repair, with meta analysis of randomized controlled trials. Int J Surg 20:65-74 (2)

Awaiz A, Rahman F, Hossain MB, Yunus RM, Khan S, Memon B, Memon MA (2015) Meta-analysis and systematic review of laparoscopic versus open mesh repair for elective incisional hernia. Hernia 19(3):449-463

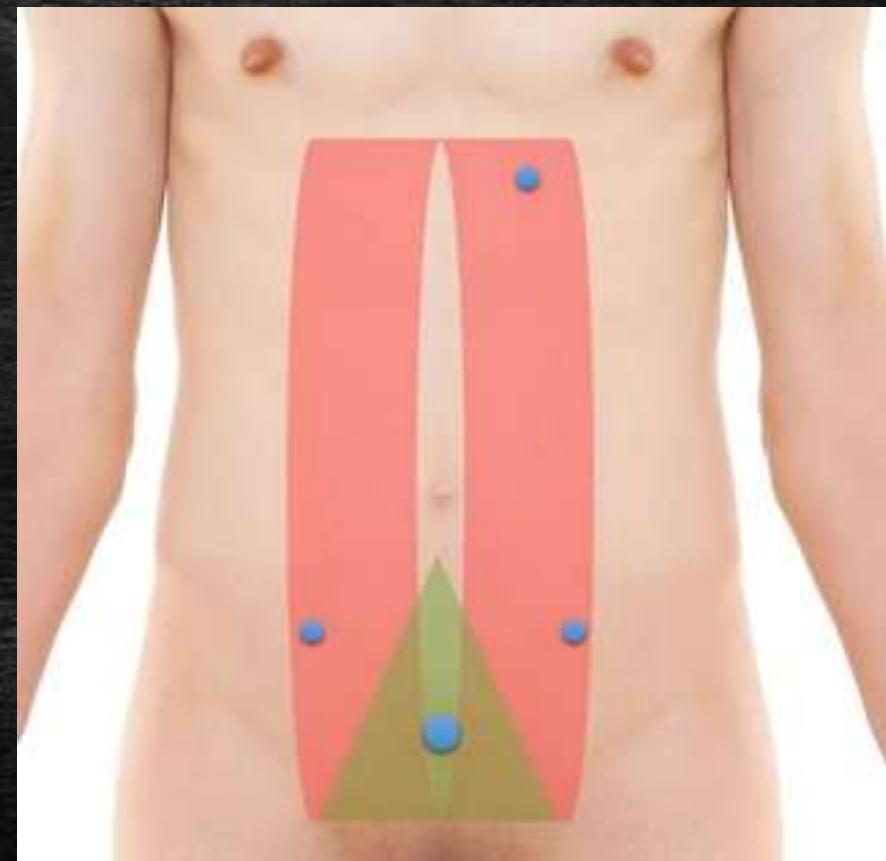
Mitura K, Skolimowska-Rzewuska M, Garnysz K (2017) Outcomes of bridging versus mesh augmentation in laparoscopic repair of small and medium midline ventral hernias. Surg Endosc 31(1):382–388. Epub 2016 Jun 10. (2B)

Tandon A, Pathak S, Lyons NJ, Nunes QM, Daniels IR, Smart NJ (2016) Meta-analysis of closure of the fascial defect during laparoscopic incisional and ventral hernia repair. Br J Surg 103(12):1598–1607. Epub 2016 Aug 22.

- intraperitoneal
- extraperitoneal



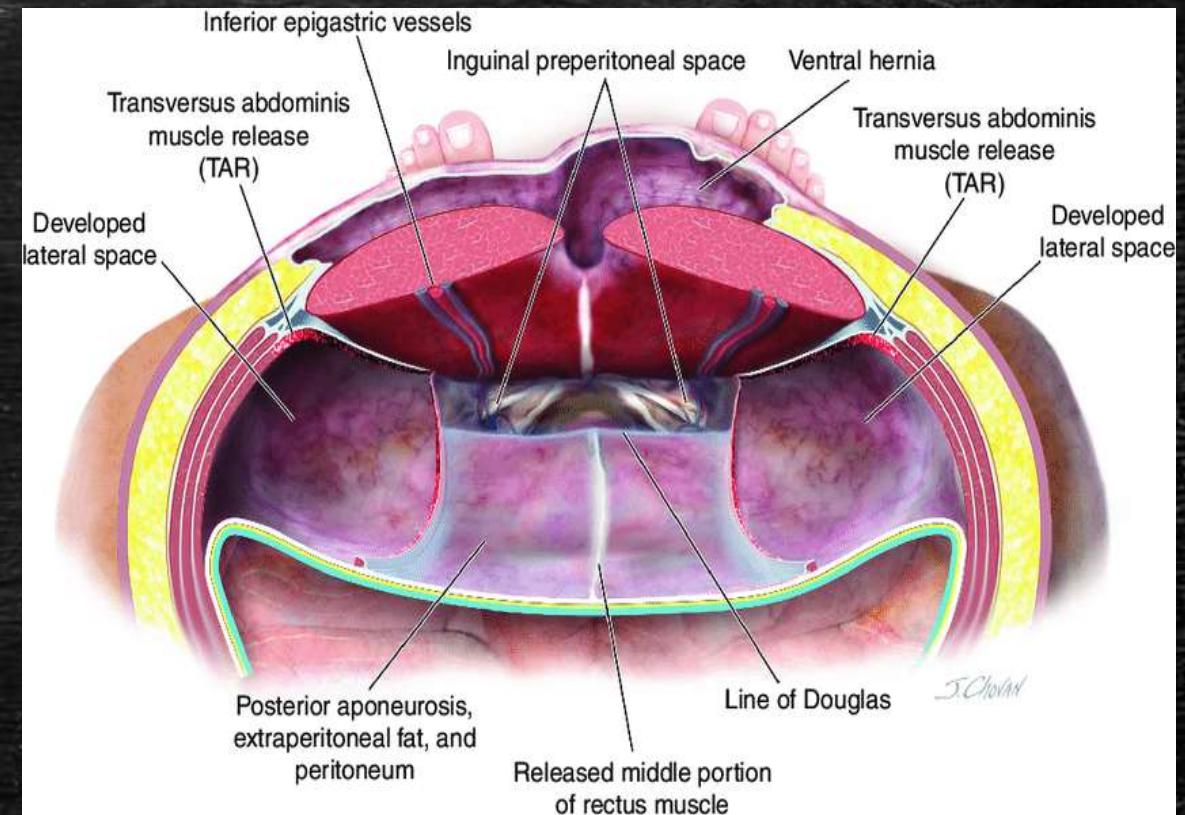
Daes J. The enhanced view - totally extraperitoneal technique for repair of inguinal hernia. SurgEndosc 2012; 26:1187-118



Daes J. The extended-view totallyextraperitoneal (eTEP) technique for inguinal hernia repair. In: Novitsky Y. W., editor. Hernia Surgery. Cham: Springer; 2016. pp. 467–472.

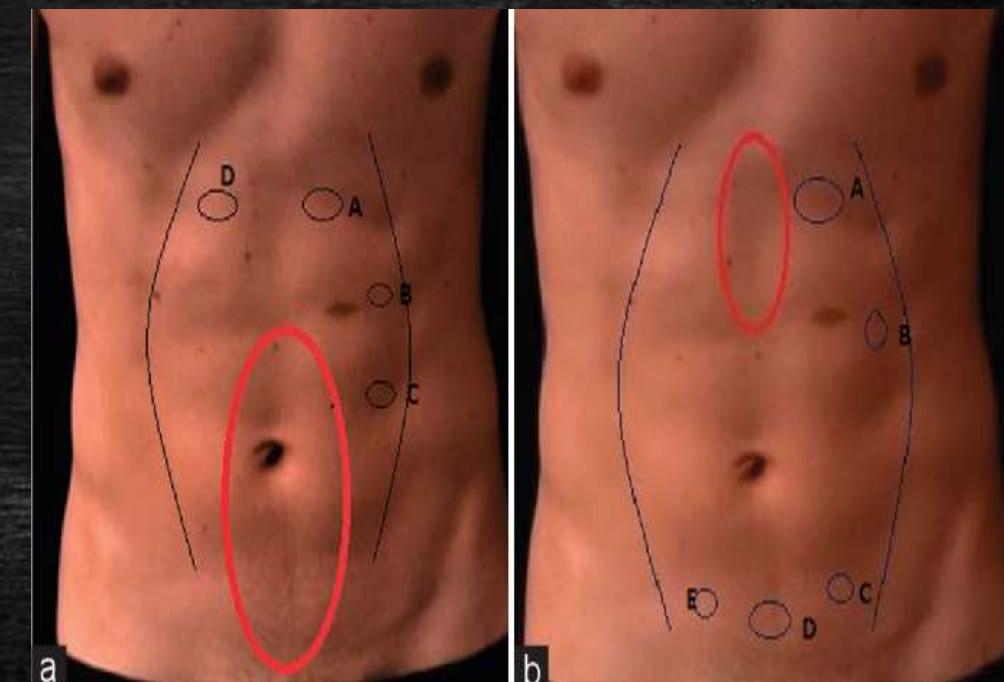
Belyansky I, Daes J, Radu VG, Balasubramanian R, Reza Zahiri H, Weltz AS, Sibia US, Park A6, Novitsky Y. SurgEndosc. 2018 Mar;32(3):1525-1532. doi: 10.1007/s00464-017-5840-2. Epub 2017 Sep 15. A novel approach using the enhanced-view totallyextraperitoneal (eTEP) technique for laparoscopic retromuscular hernia repair.

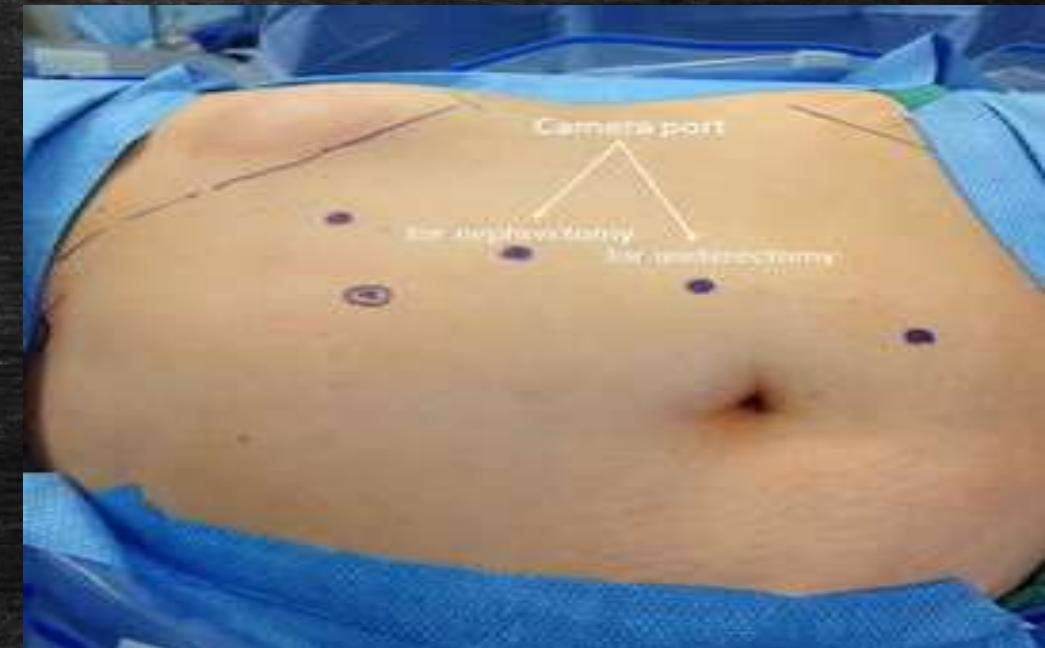
- peritoneal cavity is not entered which is lessening the risk of visceral lesions and trocar site hernias
- the preperitoneal-retromuscular space can be entered and created from any position
- knowledge of anatomy is crucial

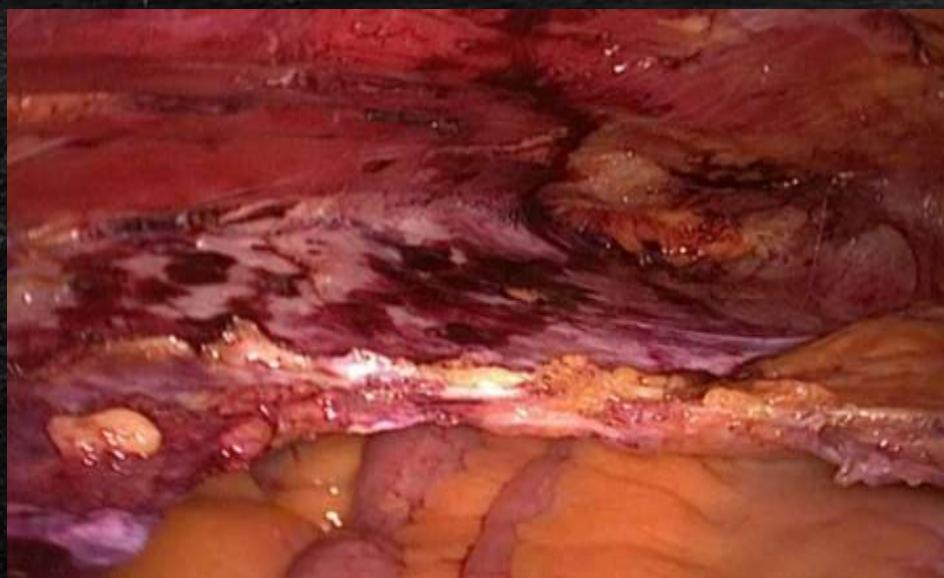
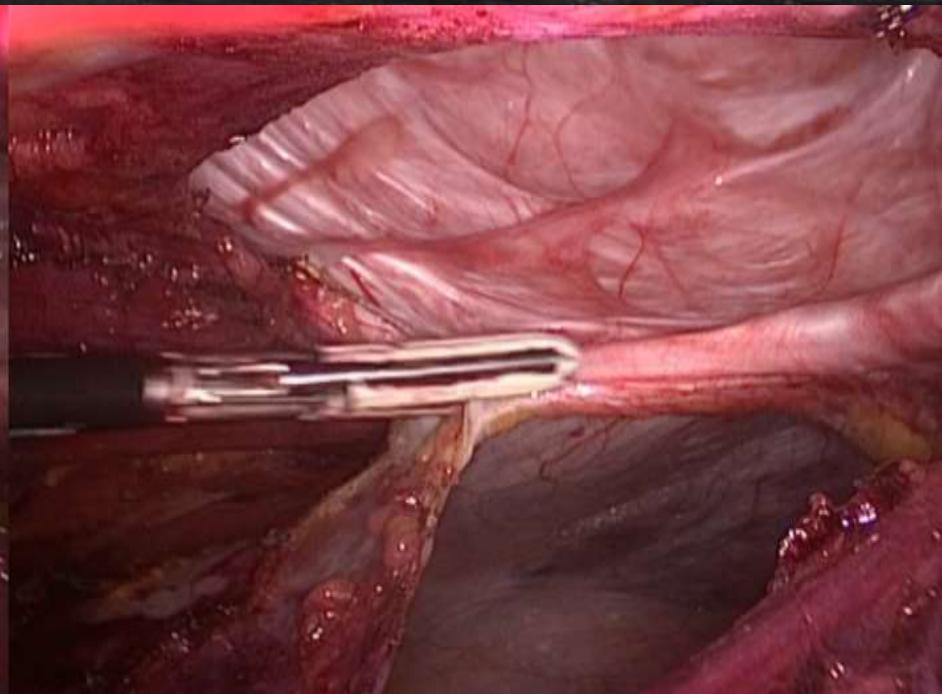
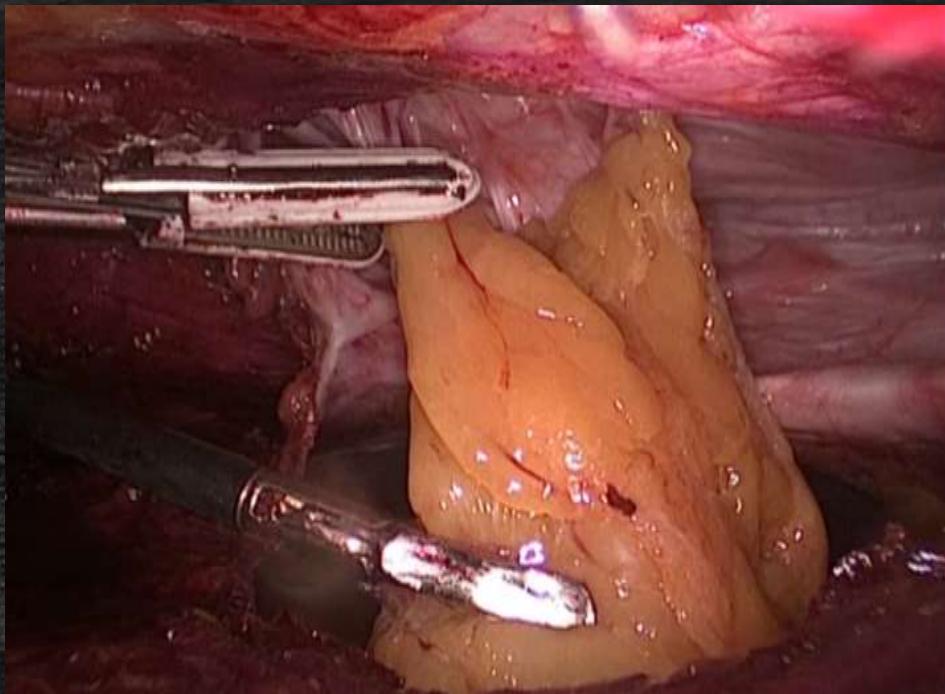


Stoppa RE. The treatment of complicated groin and incisional hernias. World J Surg. 1989;13(5):545-54.
Iqbal CW, Pham TH, Joseph A, Mai J, Thompson GB, Sarr MG. Long-term outcome of 254 complex incisional hernia repairs using the modified Rives- Stoppa technique. World J Surg. 2007;31(12):2398-404.

- Flexible and ergonomic port setup
- Large surgical field
- Tolerance of pneumoperitoneum
- eTEP Stoppa –Rives
- eTEP TAR
- eTEP Lumbar





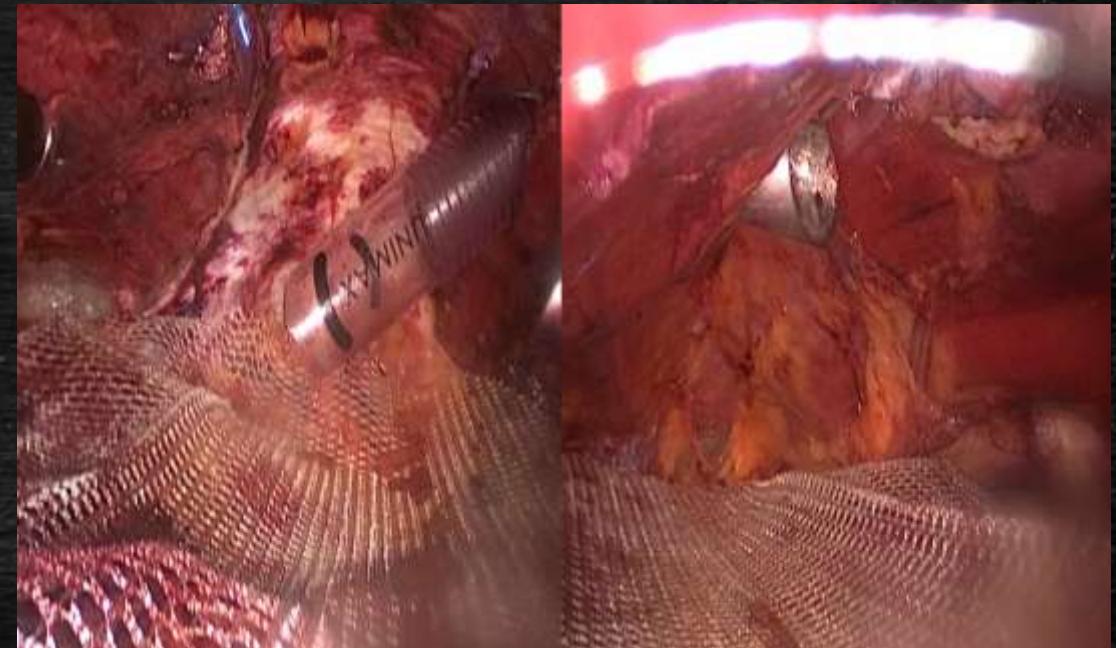


Novitsky Y. W., Porter J. R., Rucho Z. C., et al. Open preperitonealretrofascial mesh repair for multiply recurrent ventral incisional hernias. Journal of American College of Surgeons. 2003;203(3):283-289. doi: 10.1016/j.jamcollsurg.2006.05.297.

Belyansky I, Daes J, Radu VG, Balasubramanian R, Reza Zahiri H, Weltz AS, Sibia US, Park A6, Novitsky Y. SurgEndosc. 2018 Mar;32(3):1525-1532. doi: 10.1007/s00464-017-5840-2. Epub 2017 Sep 15. A novel approach using the enhanced-view totally extraperitoneal (eTEP) technique for laparoscopic retromuscular hernia repair.

Principles

- minimal invasive
- closure of the defect
- restoration of the linea alba on the midline
- uncoated mesh placed outside the peritoneal cavity
- minimal or none fixation





CONCLUSION

There are many available minimally invasive techniques for repair of ventral hernia. Surgeons should be proficient in most if not in all of them in order to accommodate to patient's needs and to be able to convert from one to another when necessary.