INCARCERATED & STRANGULATED GROIN HERNIAS

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NO DISCLOSURES

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WORLD SOCIETY OF EMERGENCY SURGERY GUIDELINES FOR EMERGENCY REPAIR OF COMPLICATED HERNIAS

- Repair of incarcerated hernias both ventral and groin may be performed with a laparoscopic (grade 1C recommendation).
- Prosthetic repair with synthetic mesh is recommended for patients with intestinal incarceration and no signs of intestinal strangulation or concurrent bowel resection (clean surgical field) (grade 1A recommendation).
- The increased likelihood of surgical site infection may suggest additive risk for permanent synthetic mesh repair (grade 1C recommendation).

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SEEMS LIKE HASSLE, WHY BOTHER?

- All things MIS
- Faster recovery
- Less pain
- Shorter hospital length of stay
- Better cosmesis
- Allows for through evaluation of the abdomen without a laparotomy and better visualization than inguinal incision
- Ability to perform hernia reduction under direct vision
- Allows for diagnosis and possible repair of contralateral hernia
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Step 1: Clinically stable?

<u>No</u> → Open vs most expeditious approach Mx → Consider MIS approach



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- Step 2: SBO?
 - Yes → Open
 - #1 reason for failed MIS approach
 <u>No /Minimal→ MIS</u> Approach
 - Hassan entry to avoid bowel injury in setting of SBO



TIPS/TRICKS TO REDUCE THE HERNIA

- •Attempt bowel reduction after induction of general anesthesia
- •Sweeping motions
- •Use atraumatic graspers
- •Big bites on tissue to prevent tearing
- •Avoid touching the bowel, pull on mesentery
- •Traction and countertraction
- •External compression of hernia to aid in reduction
- •Open the hernia sac



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DIRECT HERNIA

 Open the hernia sac →
 Releasing incision on the anteromedial aspect of defect to avoid epigastric/lliac vessels
 Open the conjoined tendon or the outer rim of the abdominal rectus



INDIRECT HERNIA

- Dividing the epigastric vessels may allow for easier dissection of the sac
- Additional 5mm port may aid in dissection
- Divide the internal ring at 12 o'clock toward the external ring
- Releasing incision anterolateral at site of epigastric vessels



FEMORAL HERNIA

Releasing incision is often needed at the lliopubic tract insertion into cooper's ligament at the medial portion of the femoral ring







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TAPP VS. TEP - DO WHAT YOU KNOW!

- 12 mm supraumbilical port + 2-5r midclavicular line
- Open peritoneum 4 cm superiorly from medial umbilical ligament to ASIS
- Create peritoneal flap exposing the inferior epigastric vessels, public
- symphysis, Cooper's ligament, & iliopubic tract • Introduce mesh (10-15 cm wide)
- Tack fixation of mesh to Cooper's ligament
- Closure of peritoneum (tacks or suture)
- Infraumbilical incision in the anterior fascia is made lateral to the linea alba, rectus muscle retracted laterally, exposing the posterior rectus sheath
- Open up the preperitoneal space under
- direct visualization
 Place two 5 mm trocars under direct visualization in the infraumbilical midline
- Landmarks and dissection are identical to the TAPP repair
- No closure of the peritoneum unless there an inadvertent defect is made

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MY 2 CENTS...

- This is not a 1 size fits all every patient i different, every hernia is different
- Assess your resources staff, equipment, assistant
- You can always start MIS and abort
- Be willing to step outside of your comfort zone
 Improve skills by doing elective MIS hernia repairs
- When its been awhile, I still review pictures to remind myself of anatomy
- Patient selection is important



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