

Checklist for Optimal Cyto reduction

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No conflicts of interest to declare

Surgical technology to achieve a complete response

Peritonectomy procedures

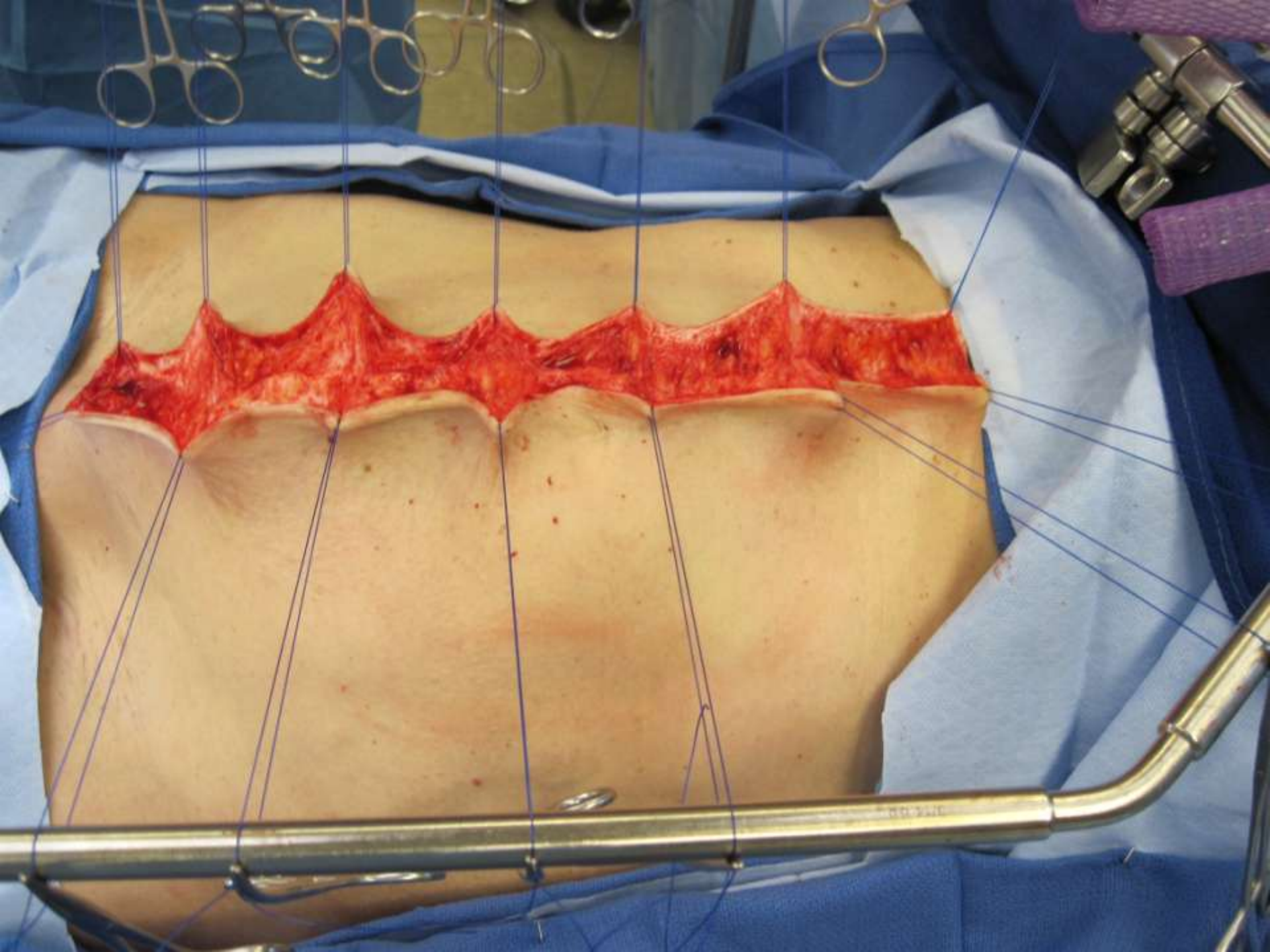
- Anterior parietal
- Right subphrenic
- Left subphrenic
- Pelvic
- Omental bursa
- Mesenteric

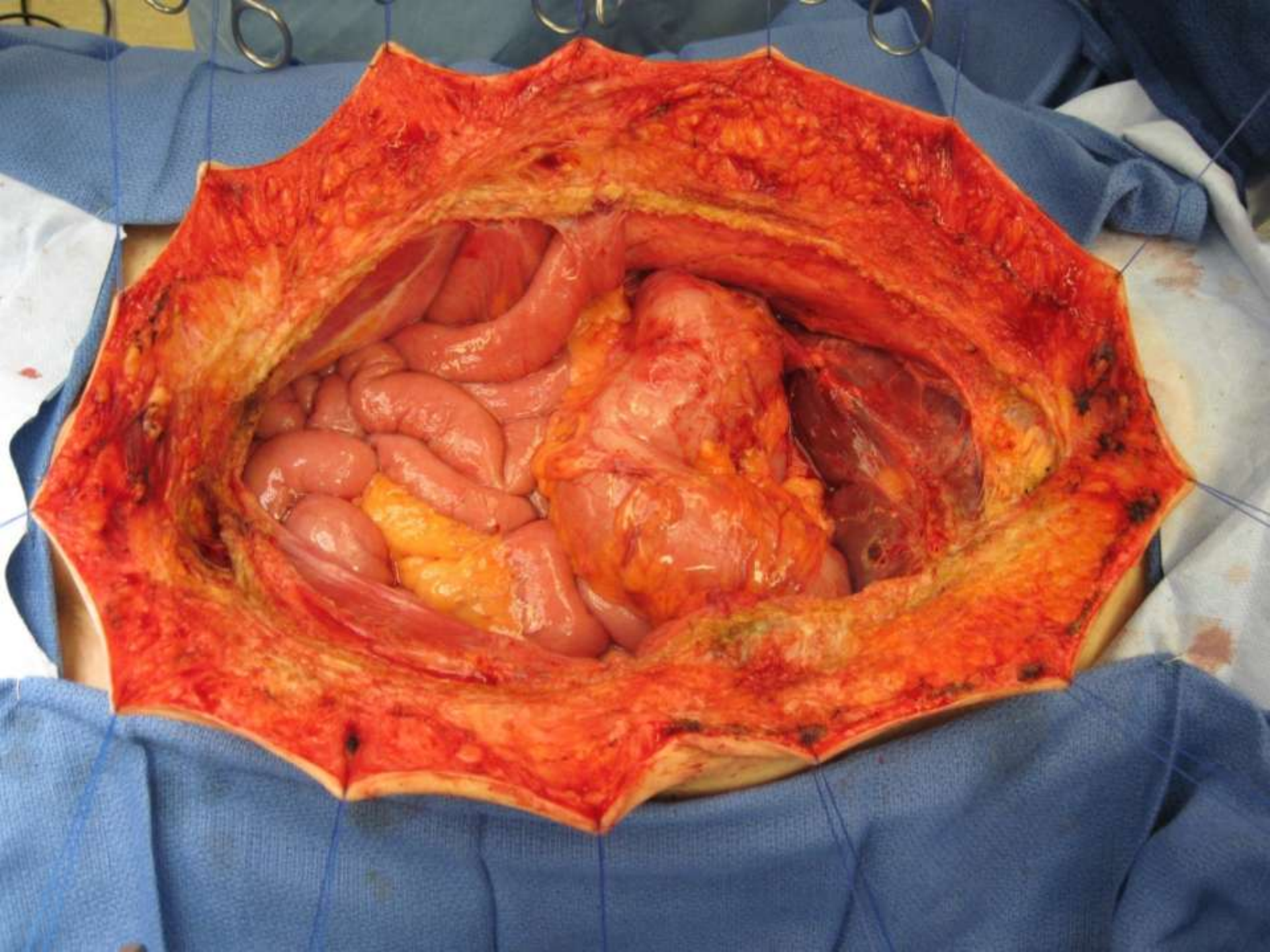
Visceral resections

- Greater omentum
- Spleen
- Uterus and ovaries
- Rectosigmoid colon
- Right colon
- Lesser omentum
- Stomach

Skin traction sutures

1. Contribute to a complete removal of the old abdominal incision.
2. Facilitate an incision that does not deviate from the linea alba.
3. Minimize damage to small bowel loops adherent to the anterior abdominal wall.
4. Allow the construction of a peritoneal window.
5. Facilitate the initial 5-10 cm of the anterior peritoneal peritonectomy.
6. Provide a reservoir for open HIPEC with vapor barrier.

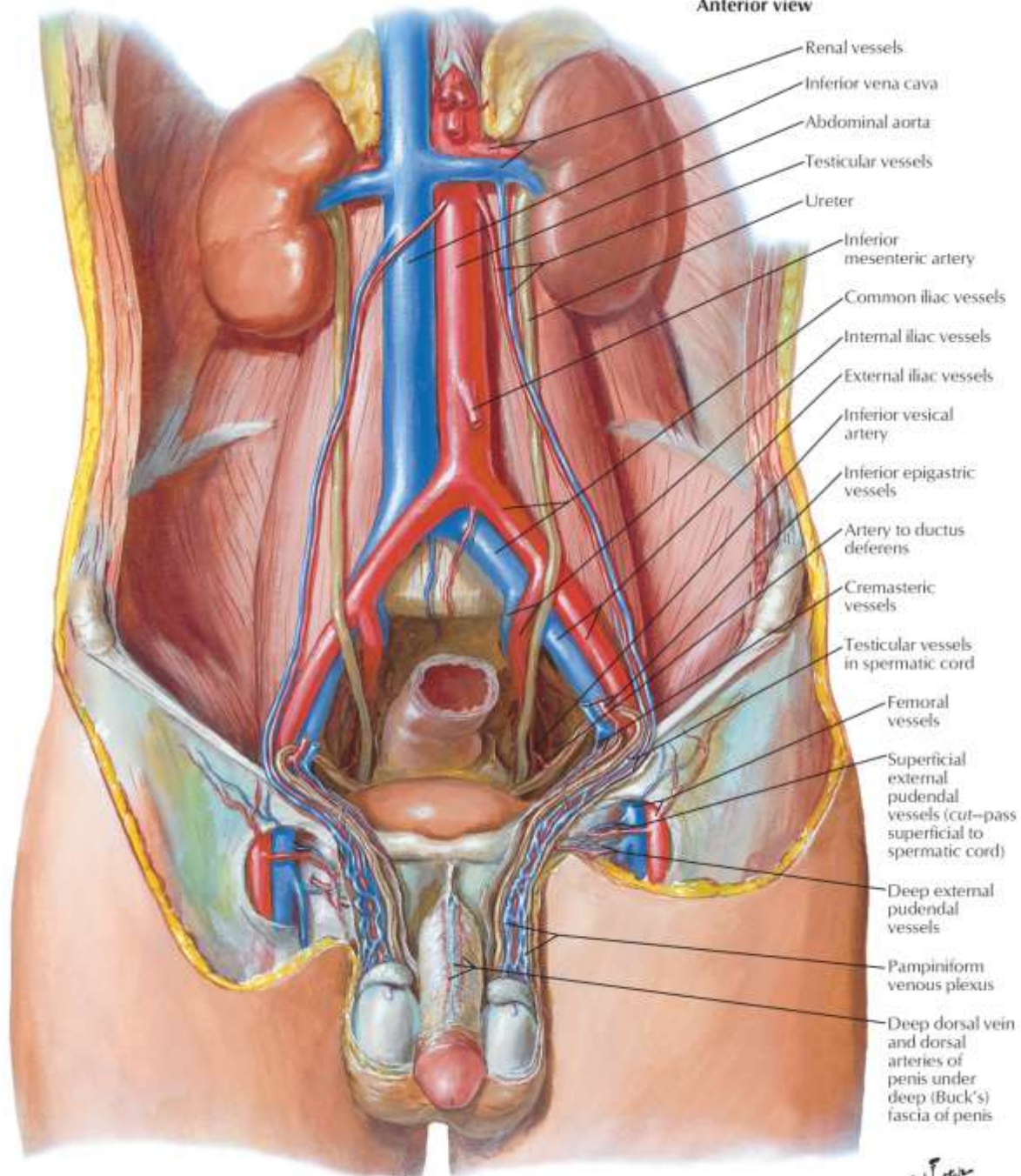




Ureter localization

Locate and widely explore the ureter within the abdomen before dissecting for it in the pelvis.

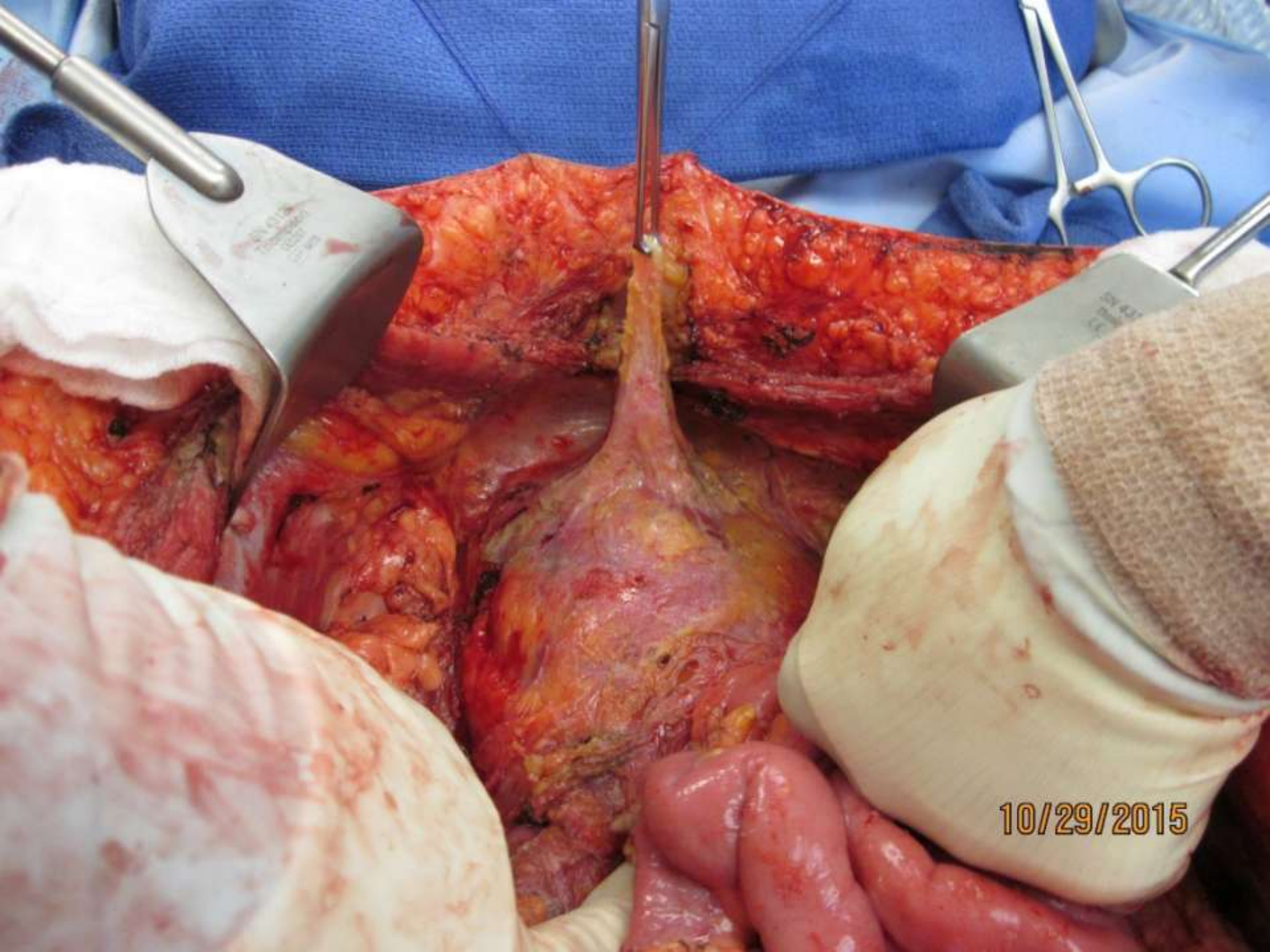
Anterior view



F. Netter

Urachal traction

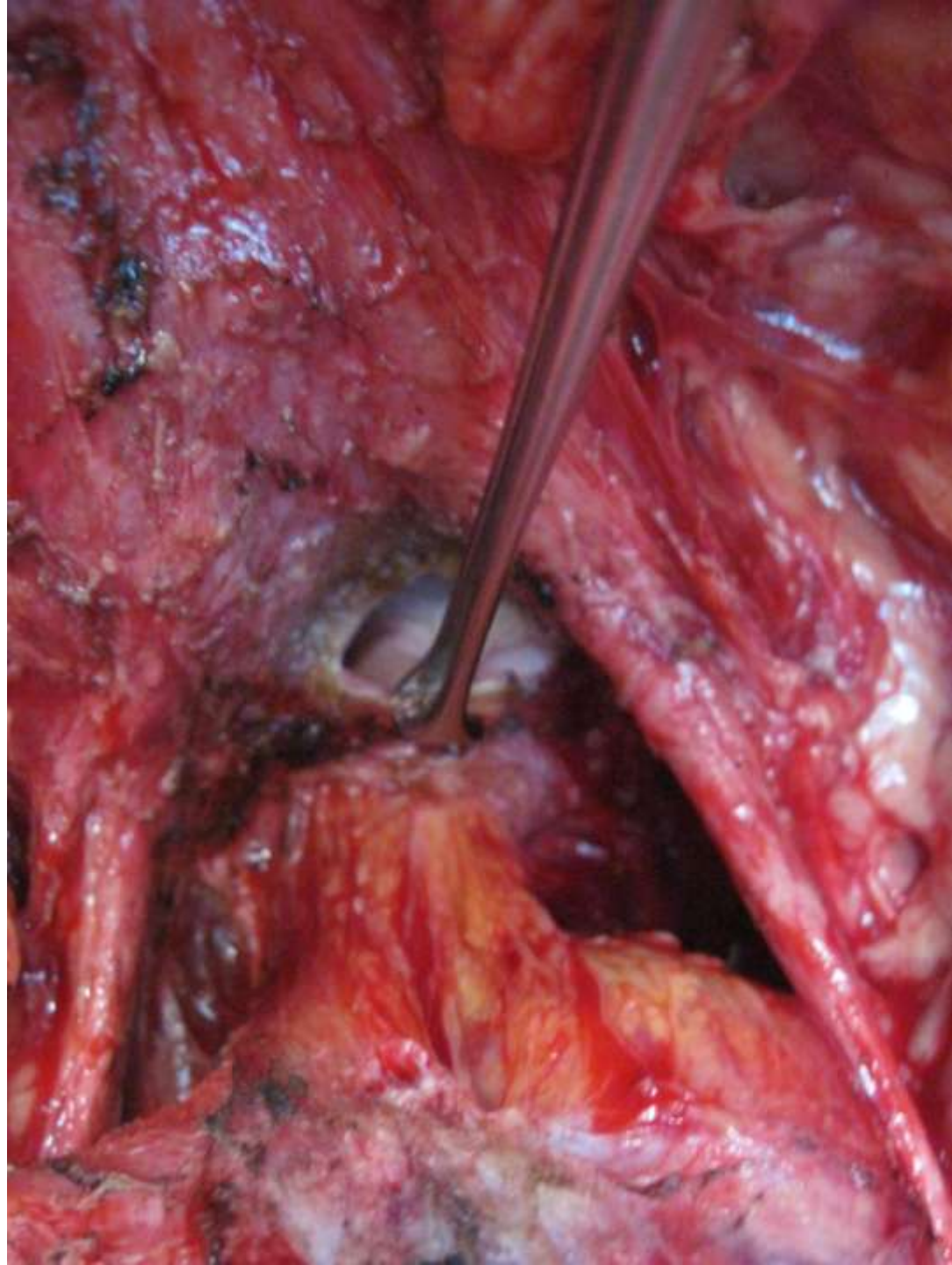
Place an Allis clamp on the urachus to elevate the bladder to initiate pelvic peritonectomy.



10/29/2015

Cul-de-sacectomy

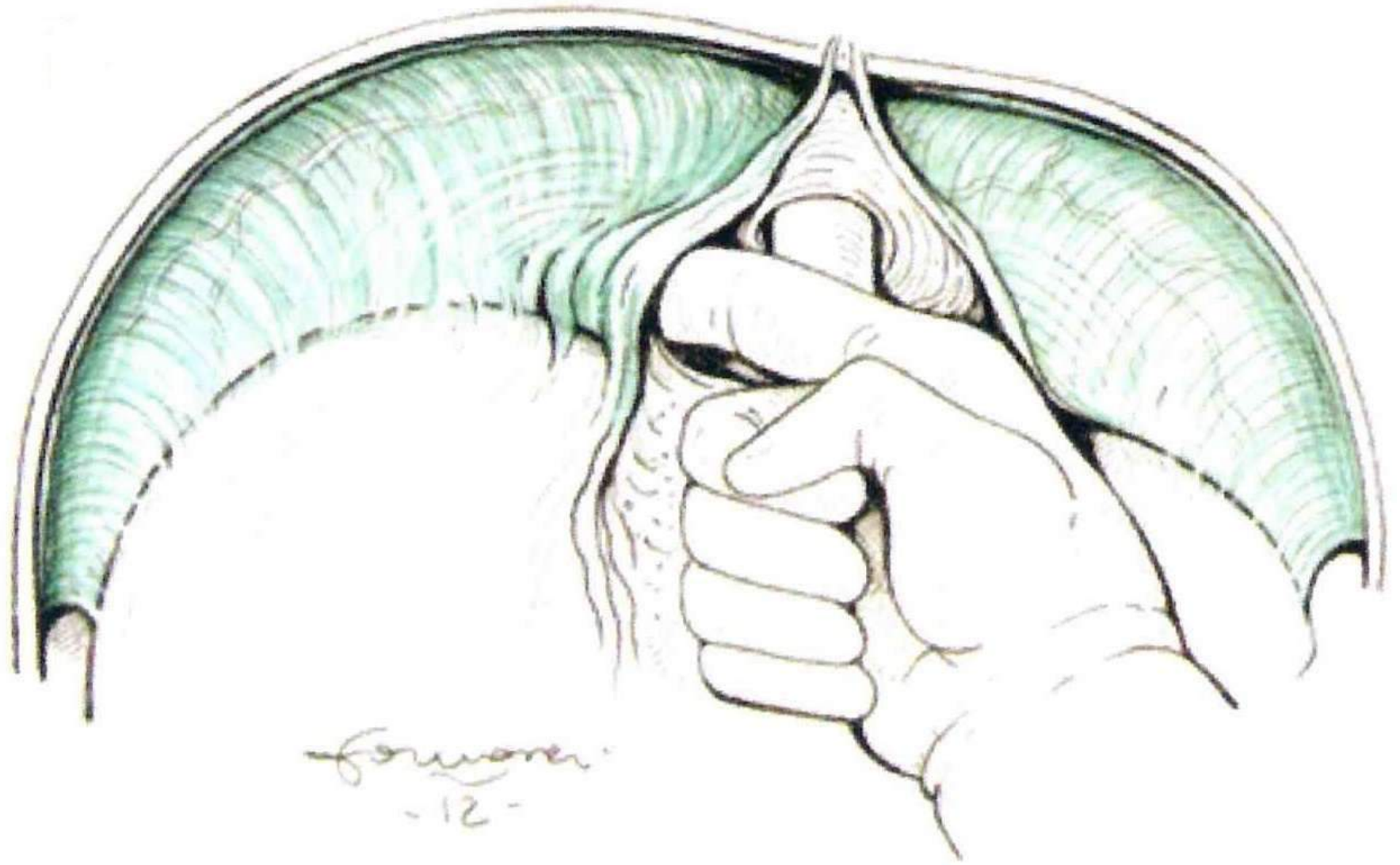
Place the posterior vagina on traction using an Allis clamp to facilitate peritonectomy of the anterior aspect of the rectum.



Use the subphrenic planes to bluntly strip the posterior ½ of the diaphragm from posterior to anterior.

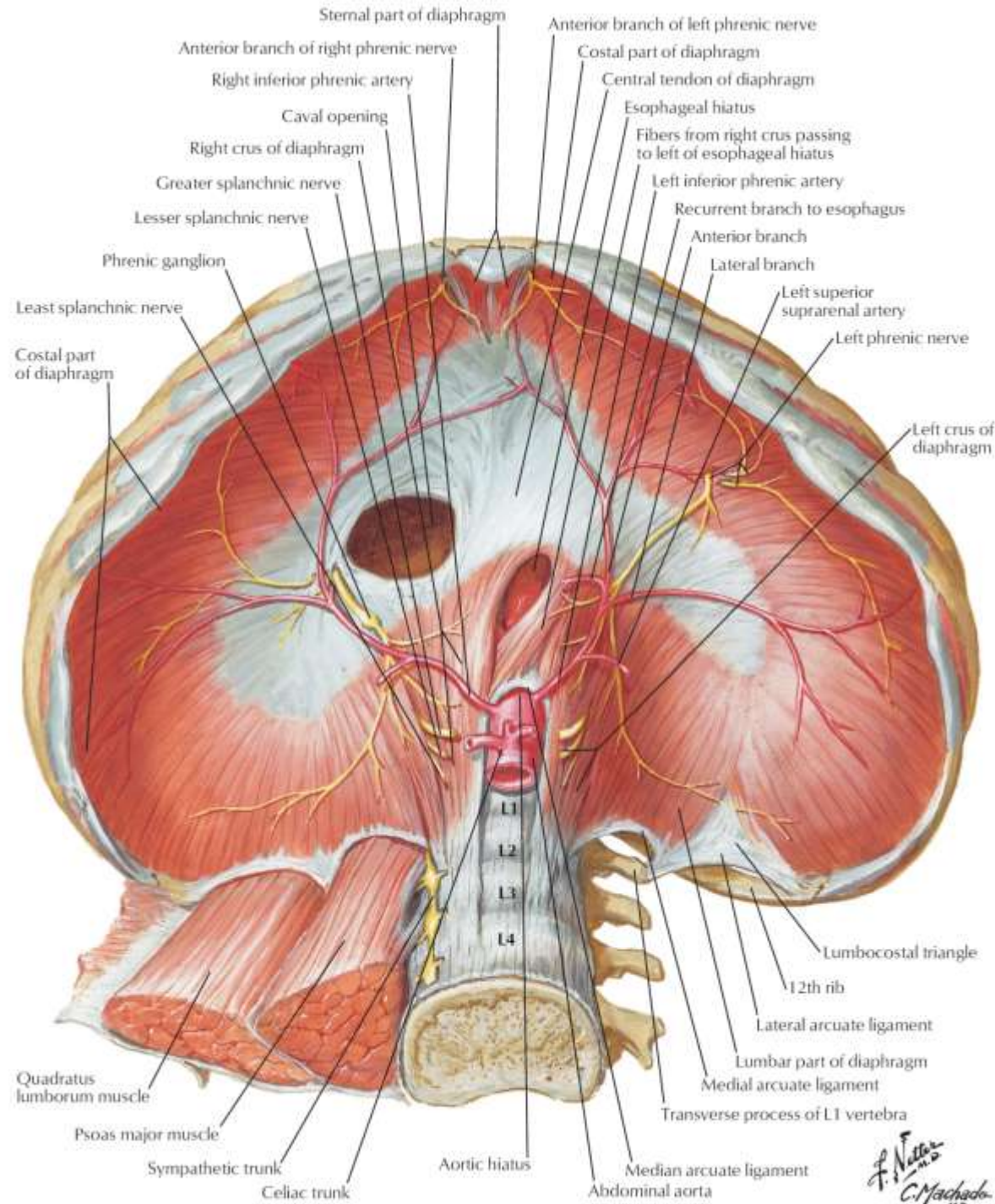
Blunt dissection of the right subphrenic plane medially

Locate the space between the anterolateral branch of the inferior subphrenic vessels and the right hepatic vein to bluntly open the aspect of the right subphrenic plane.



Blunt dissection of the right subphrenic plane laterally

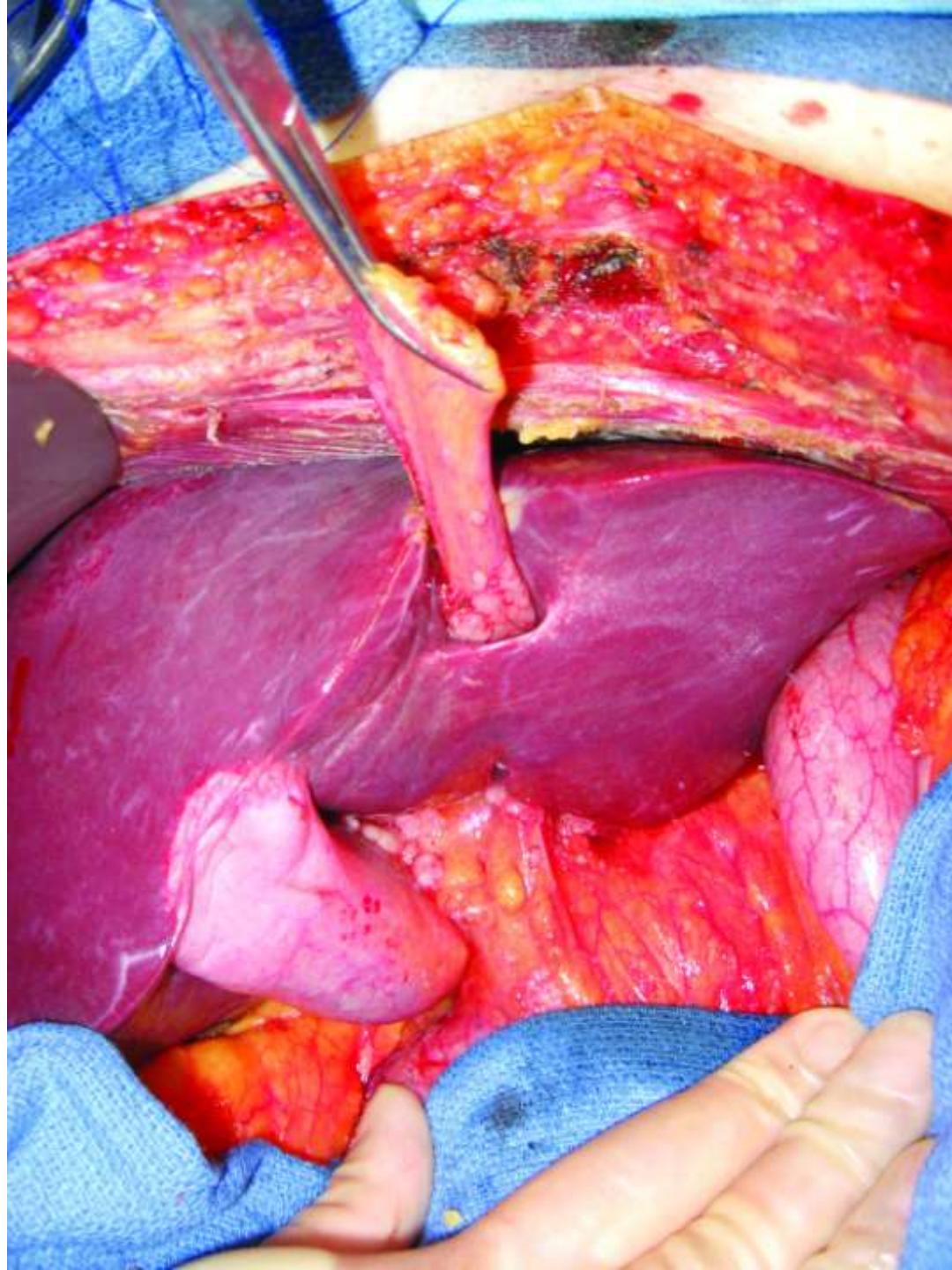
Remove the retroperitoneal fat to locate the 12th rib and the **lateral arcuate ligament**. Develop the lateral aspect of the right subphrenic plane and bluntly dissect posterior to anterior.



On the left, the medial aspect of the left subphrenic plane does not develop well. By dividing the perirenal fascia, the lateral aspect of the left subphrenic plane can be used effectively.

Division of the hepatic bridge

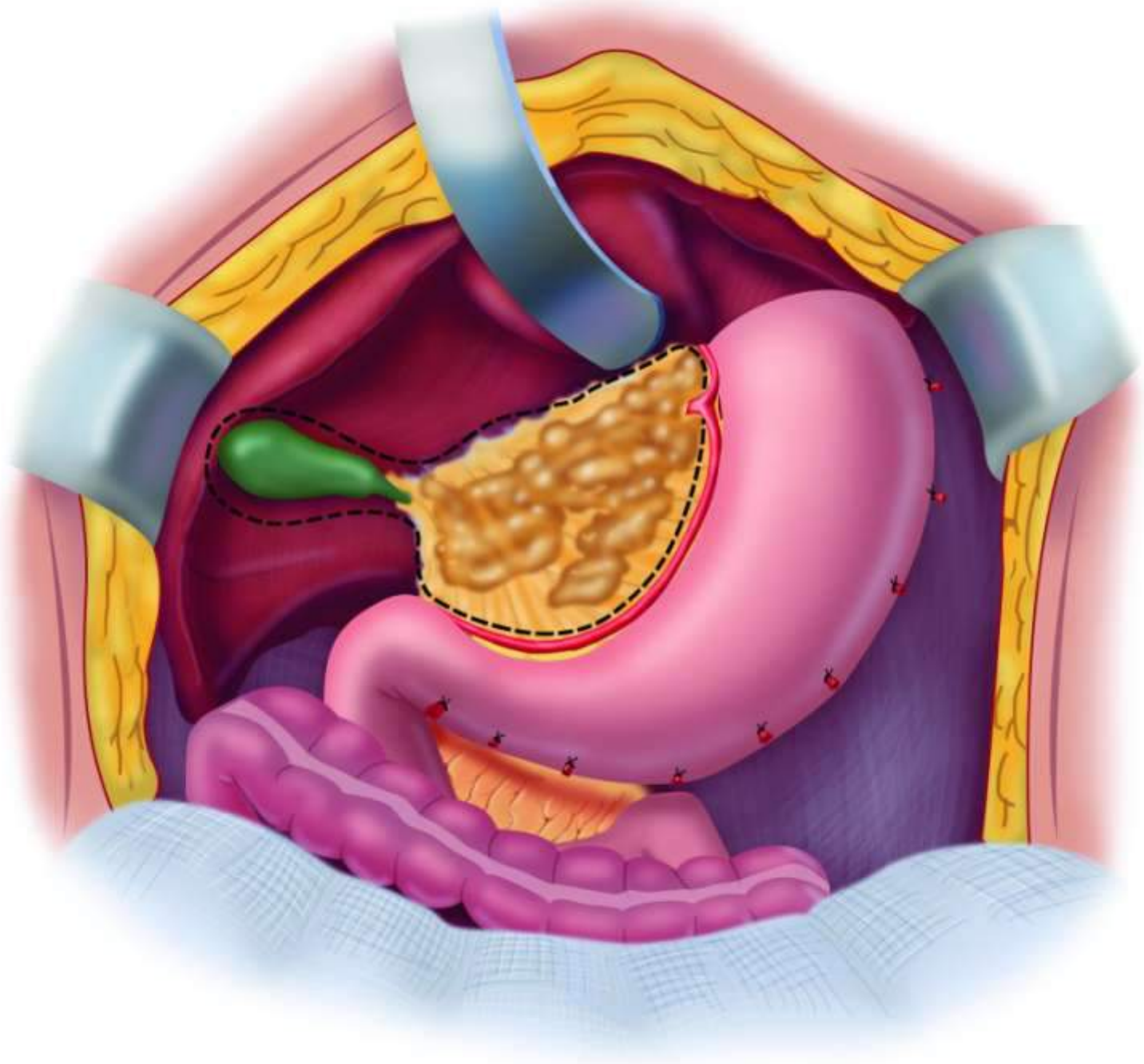
The peritoneal tunnel around the hepatic round ligament must be divided to clear peritoneal metastases from beneath the pont hepatique (hepatic bridge).





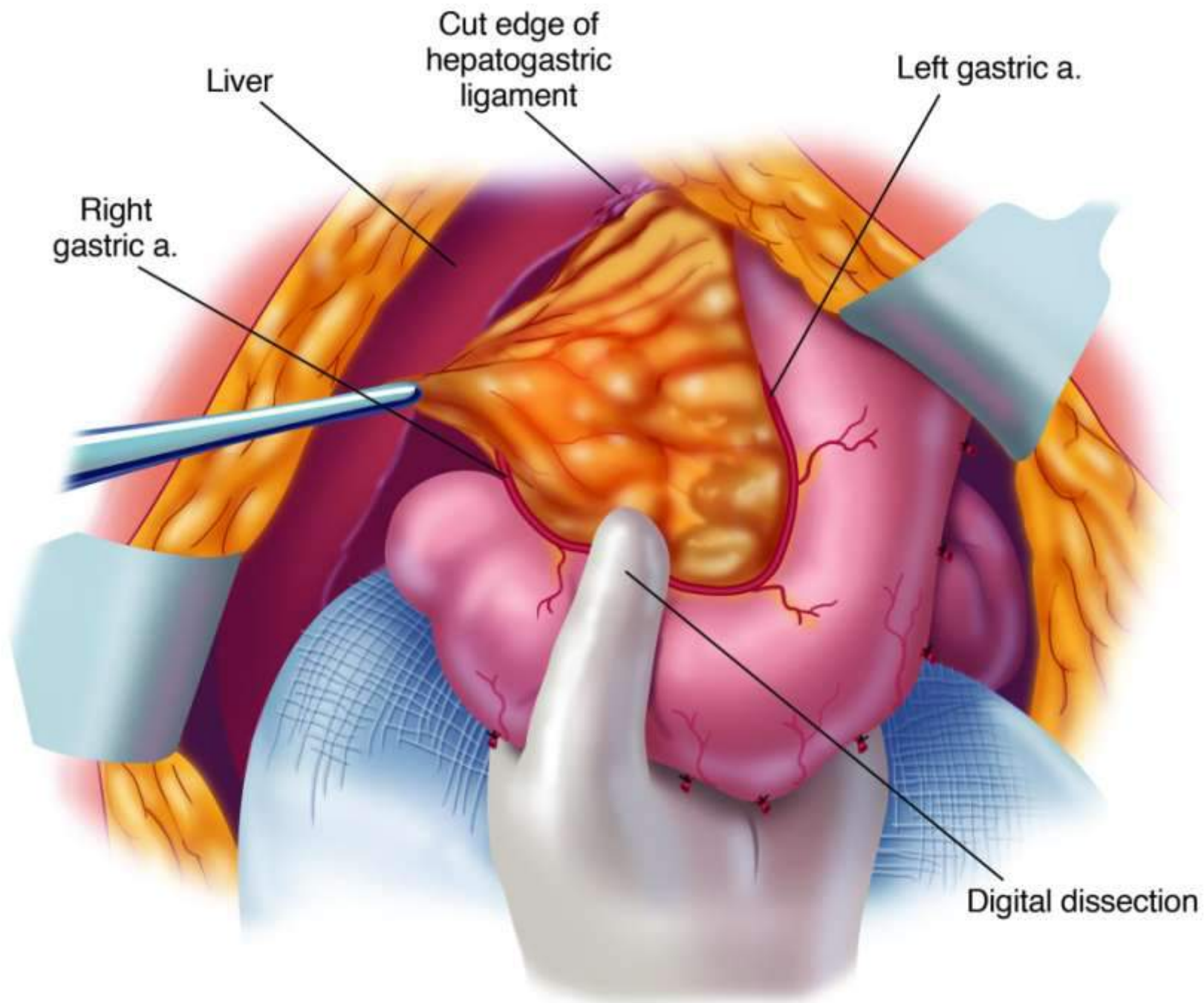
Exposure of the gastro-hepatic ligament

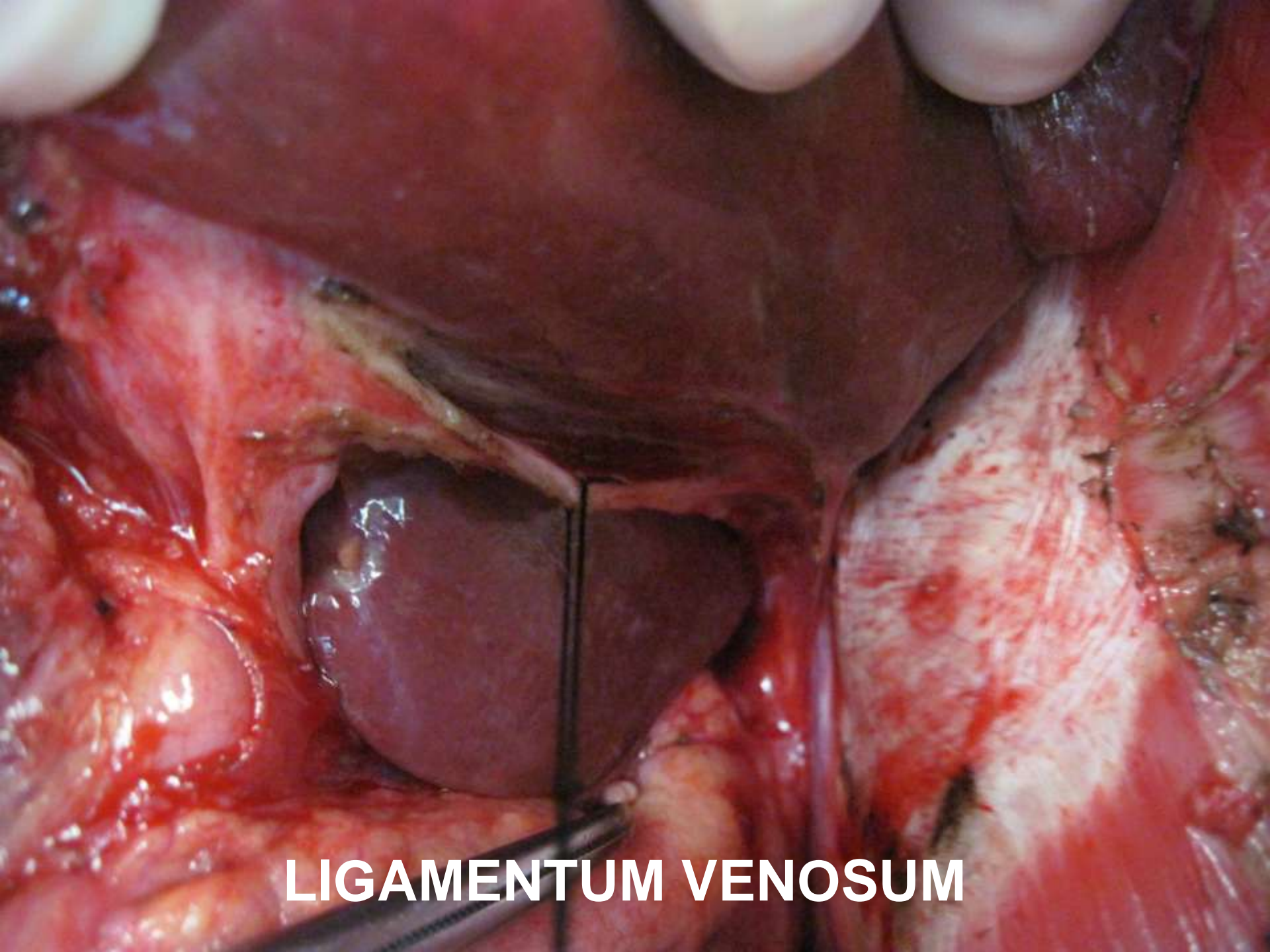
Completely divide the left triangular ligament and left coronary ligament to mobilize the left lateral segment of the liver. Elevate it to the right.



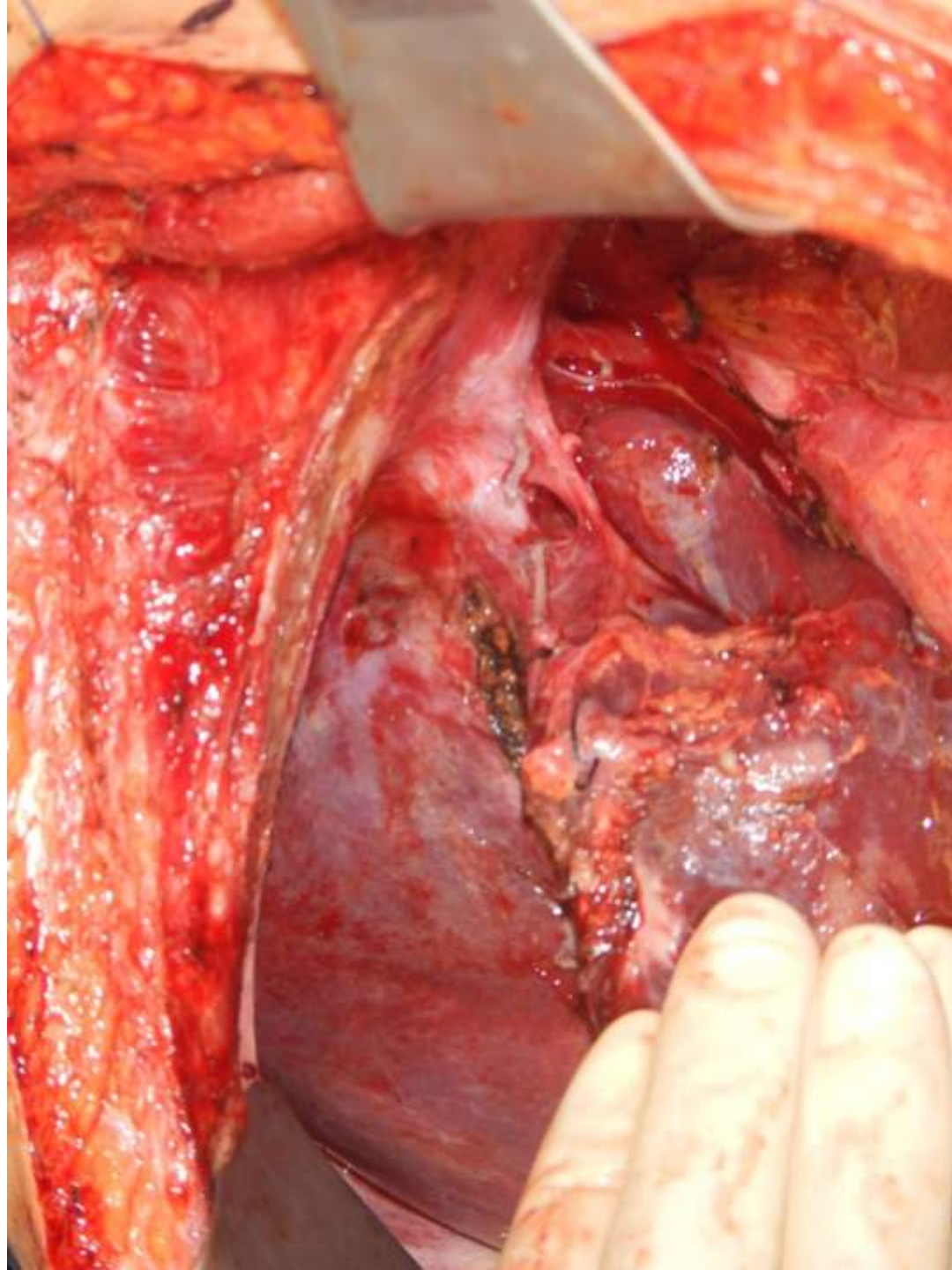
Lesser omentectomy

Use profound digital dissection to clear fat and tumor within the lesser omentum from the lesser omental vascular arcade. Preserve right and left gastric arteries.



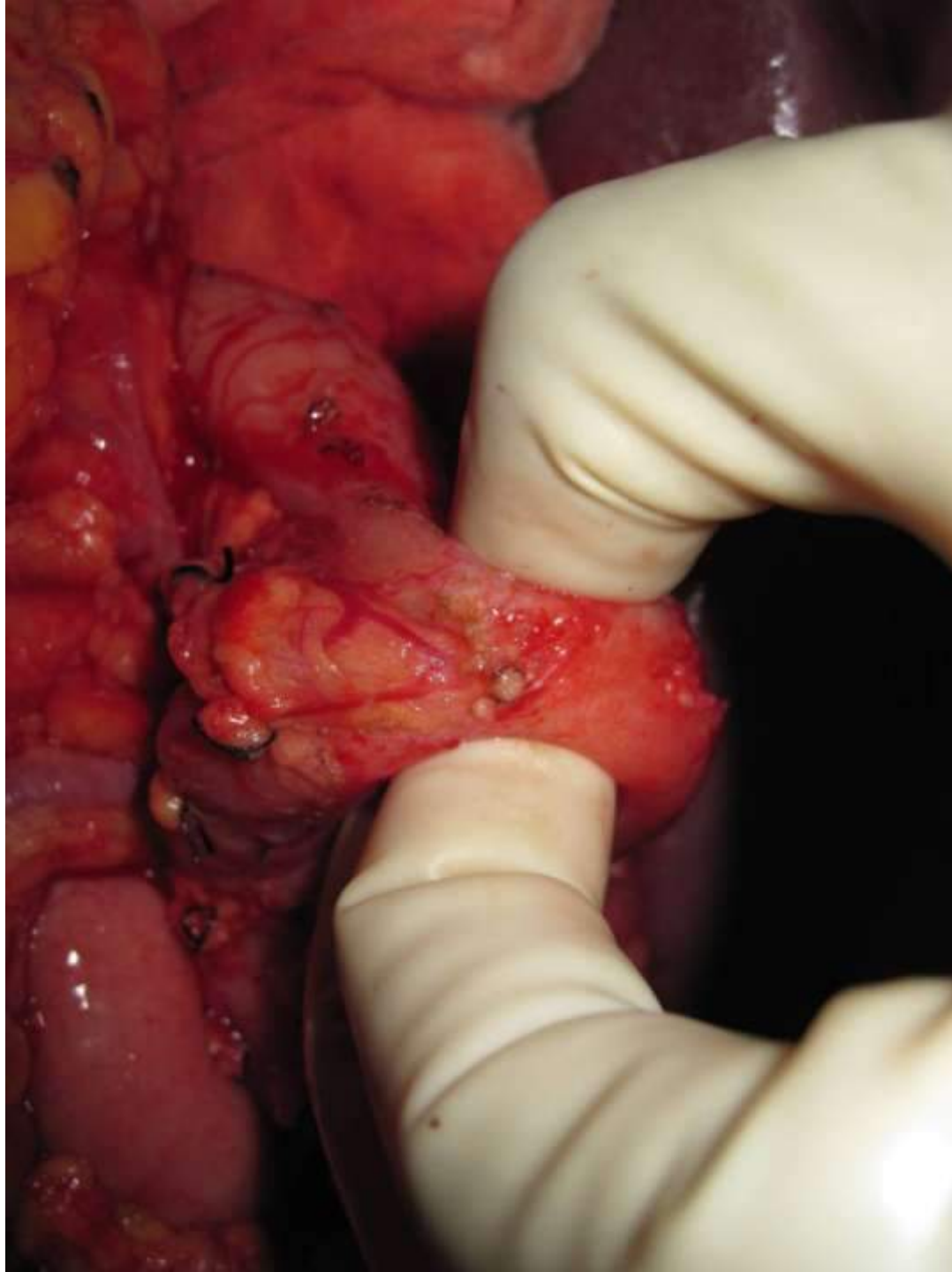


LIGAMENTUM VENOSUM



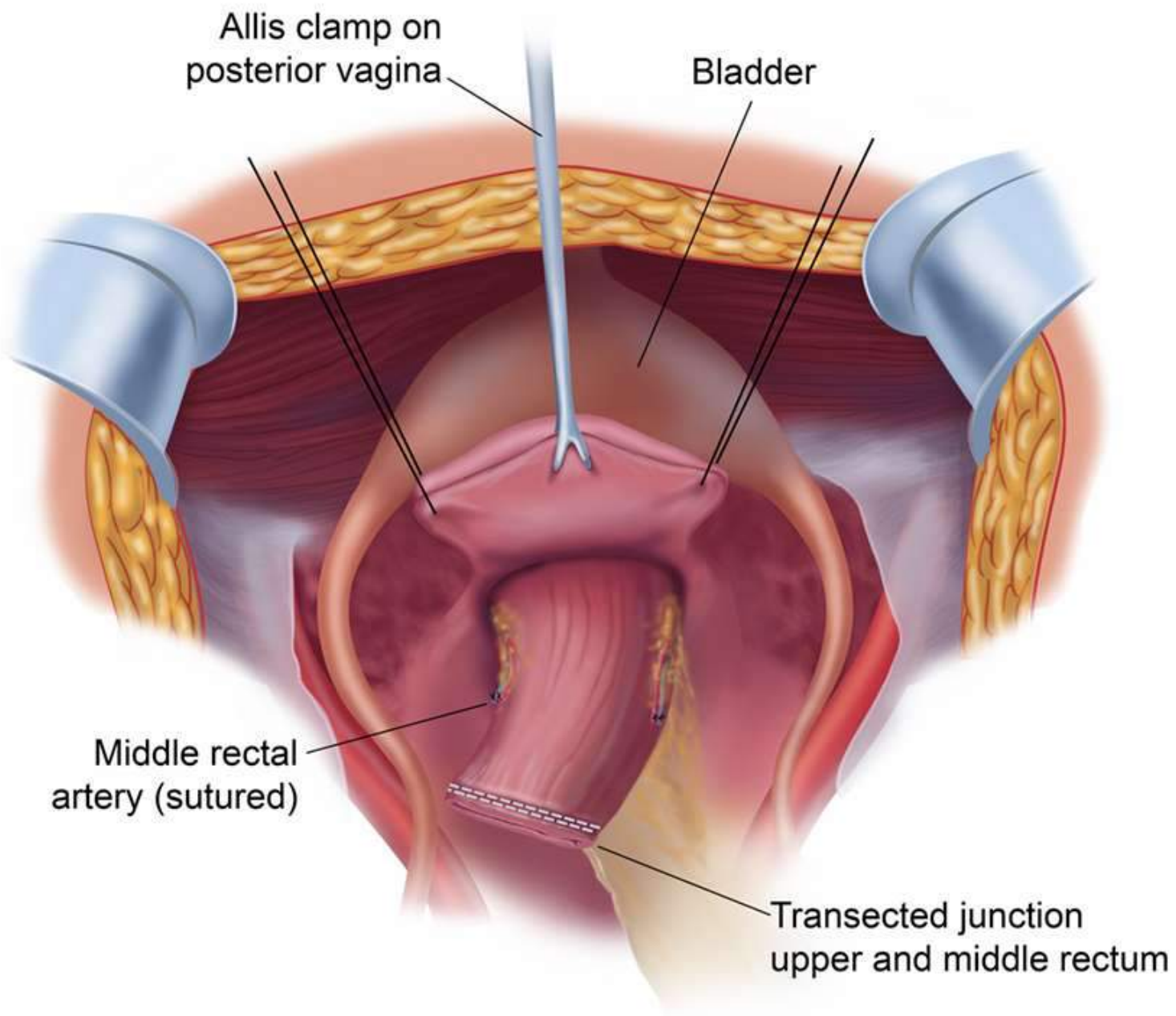
Avoiding prolonged gastric stasis

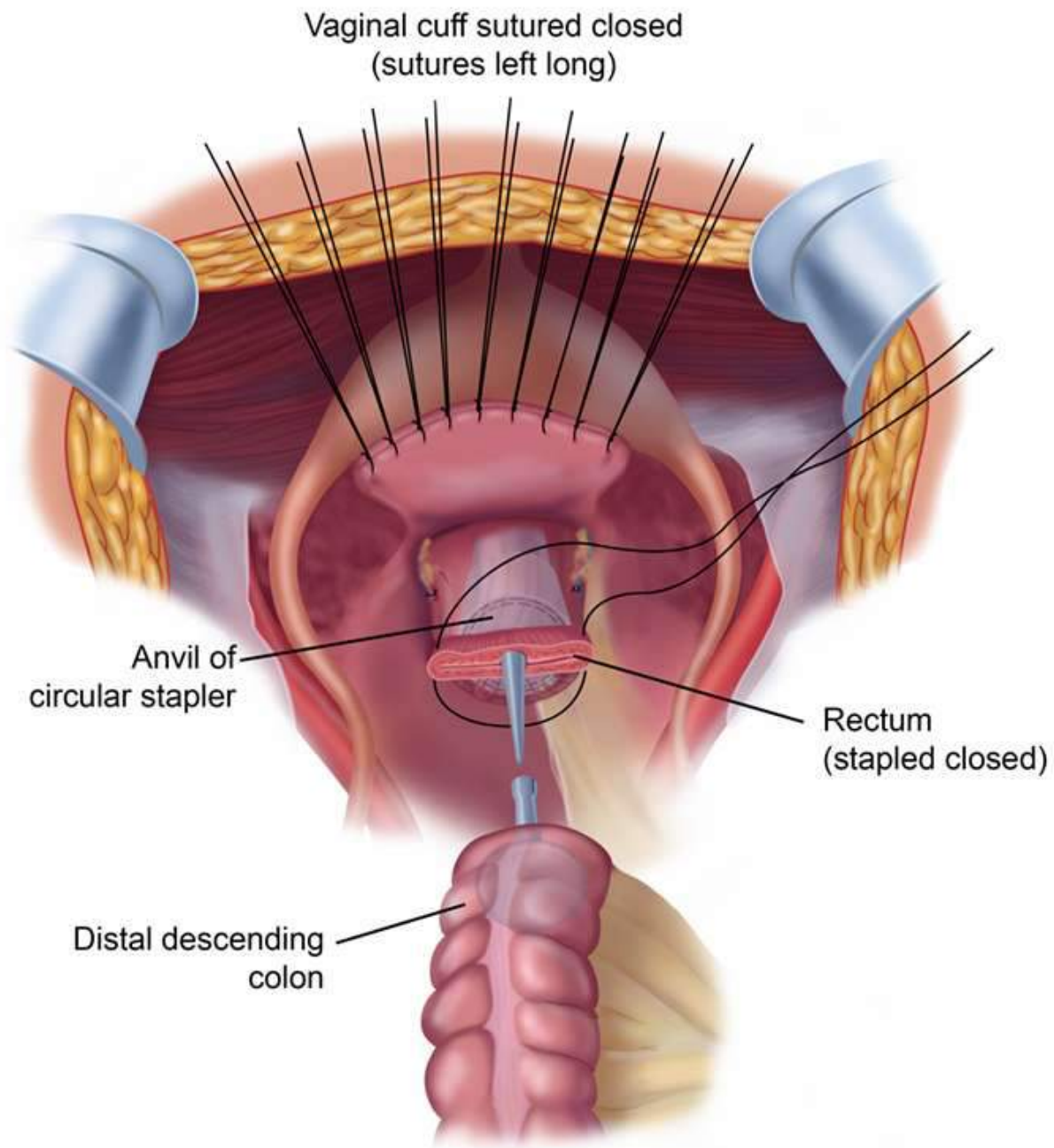
After an extensive lesser omentectomy, test the pylorus for wide patency. If it is stenotic perform a pyloroplasty.

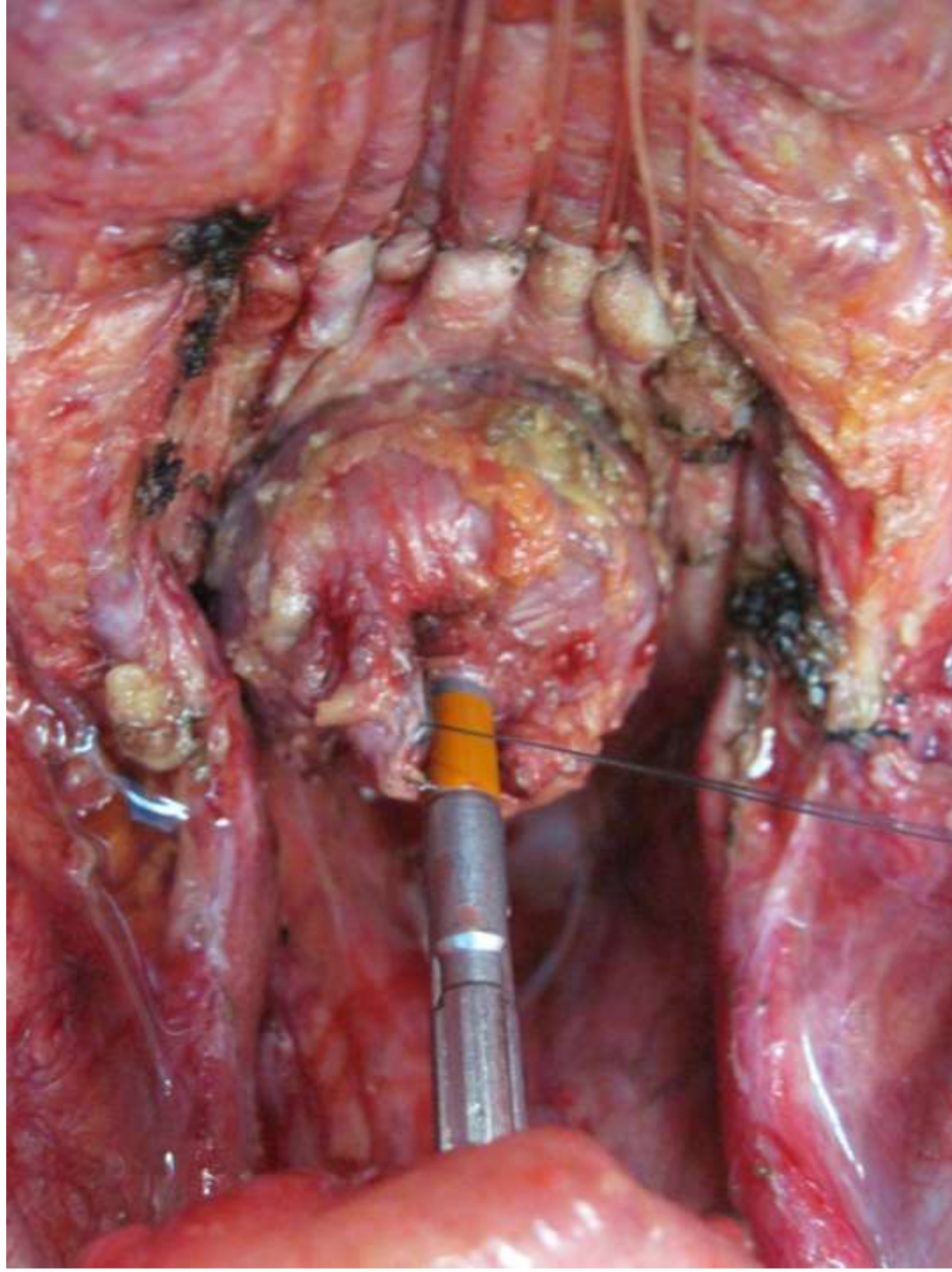


Avoiding ileostomy

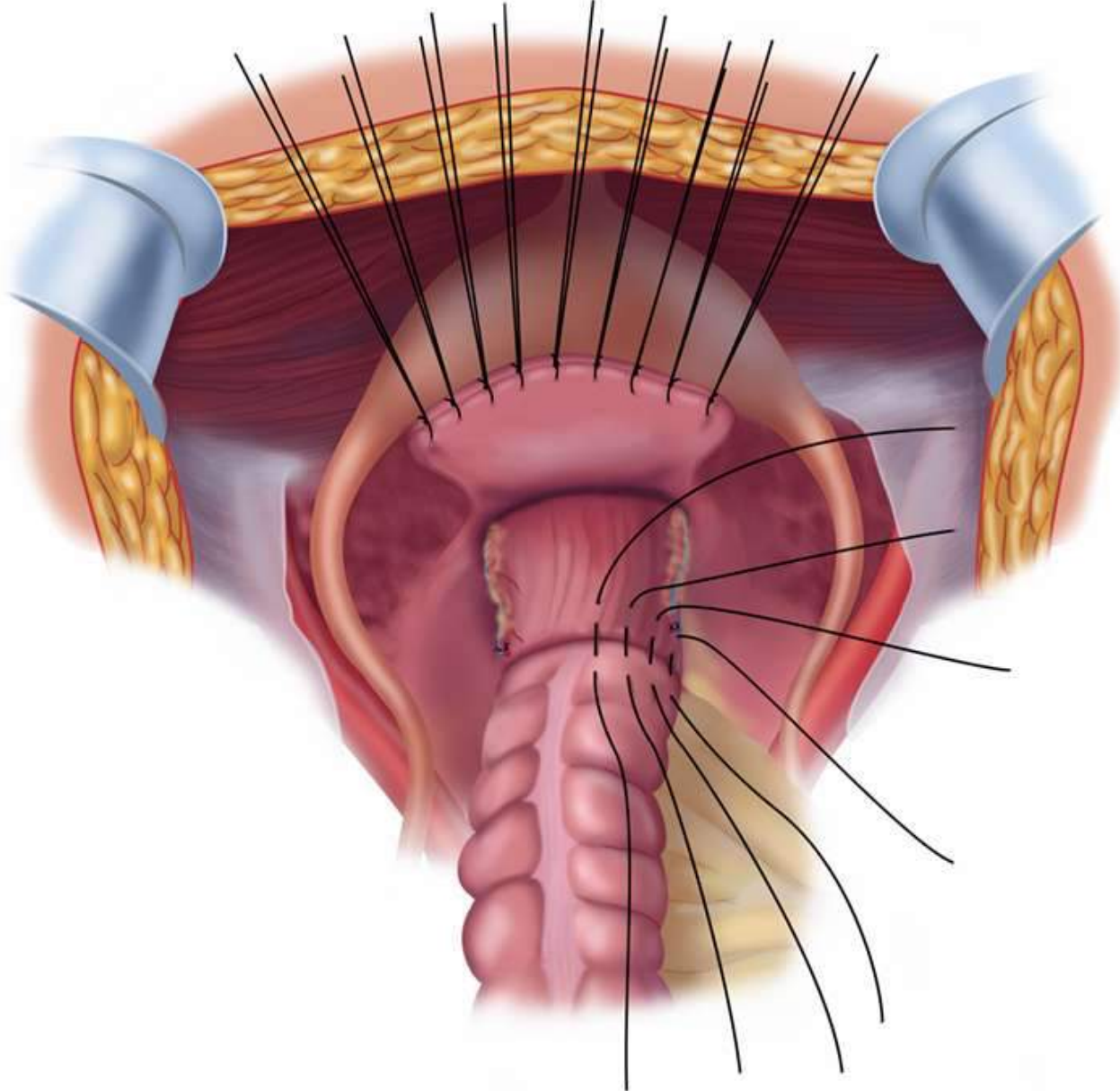
Preserve a long rectal stump to place a second layer of sutures circumferentially around the circular stapled colorectal anastomosis.

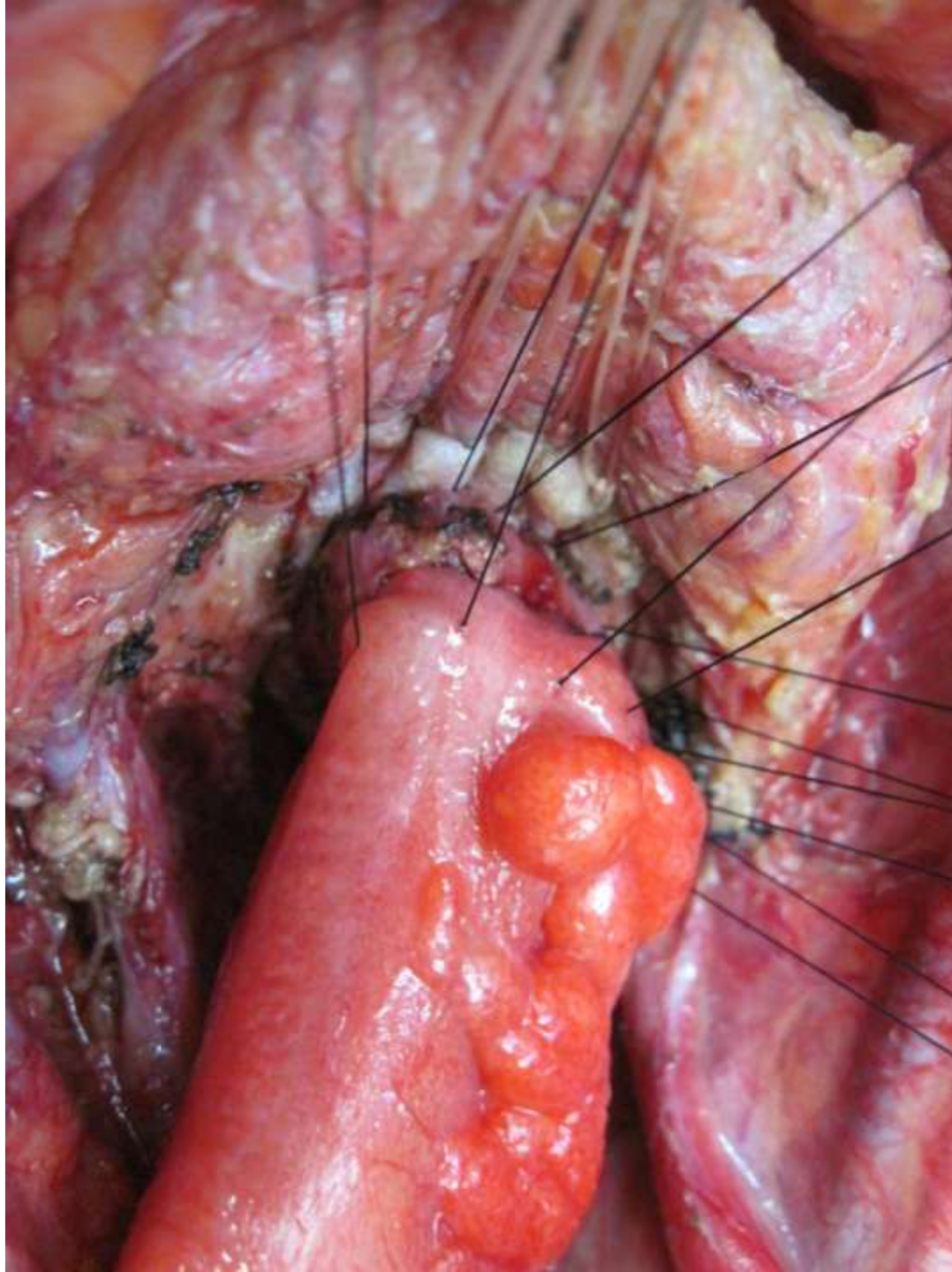


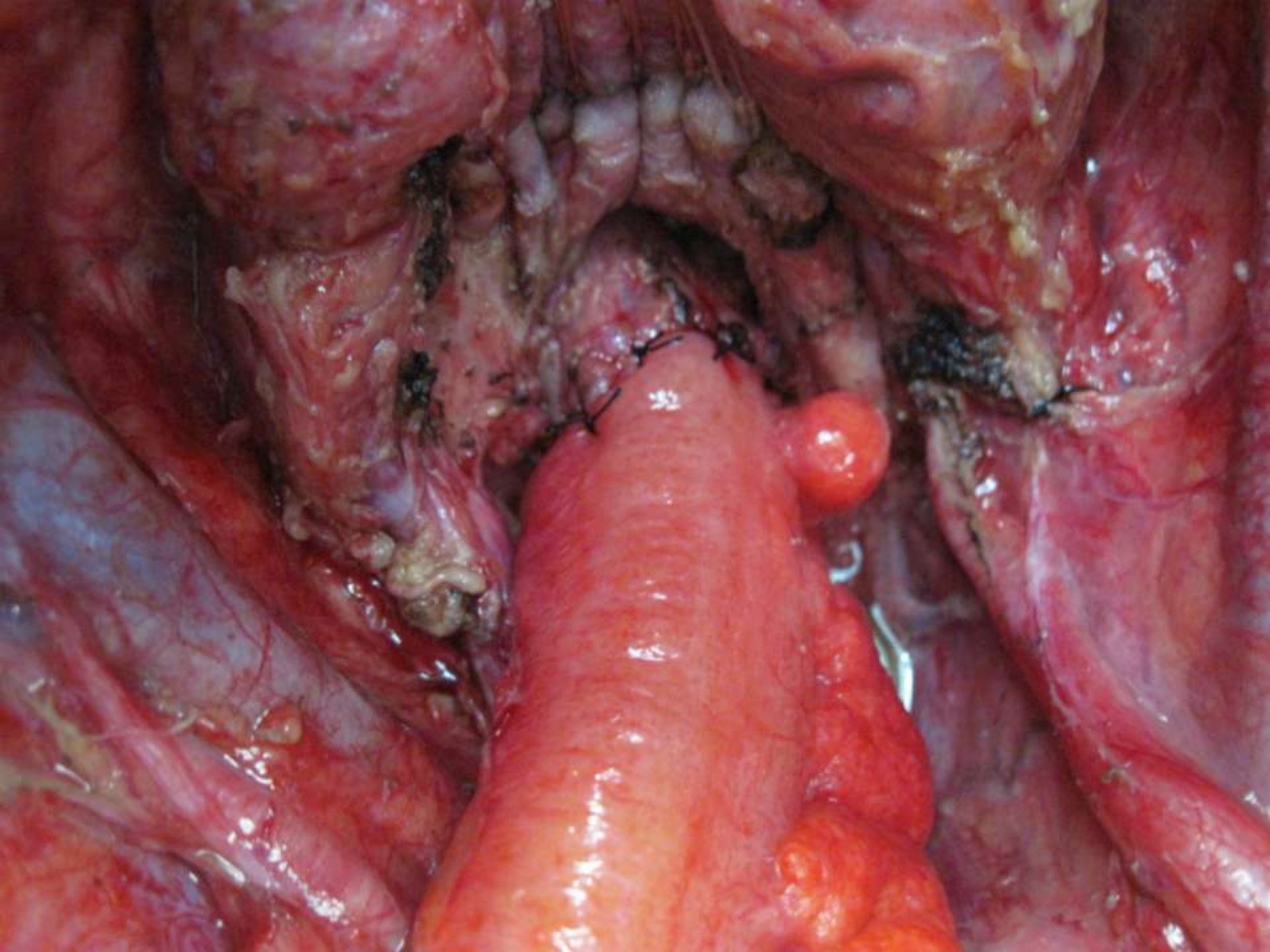




Vaginal cuff sutured closed
(sutures left long for traction)

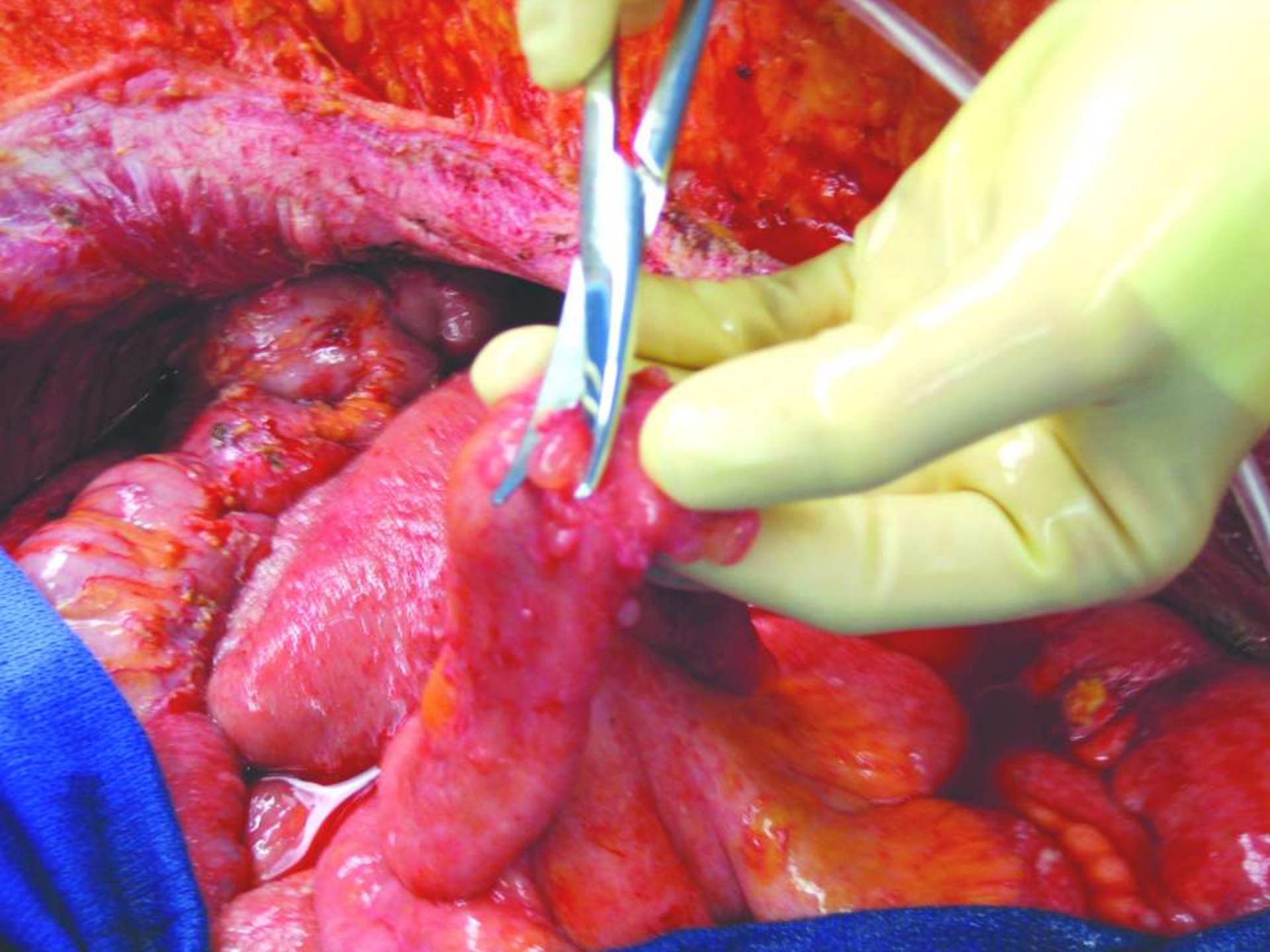


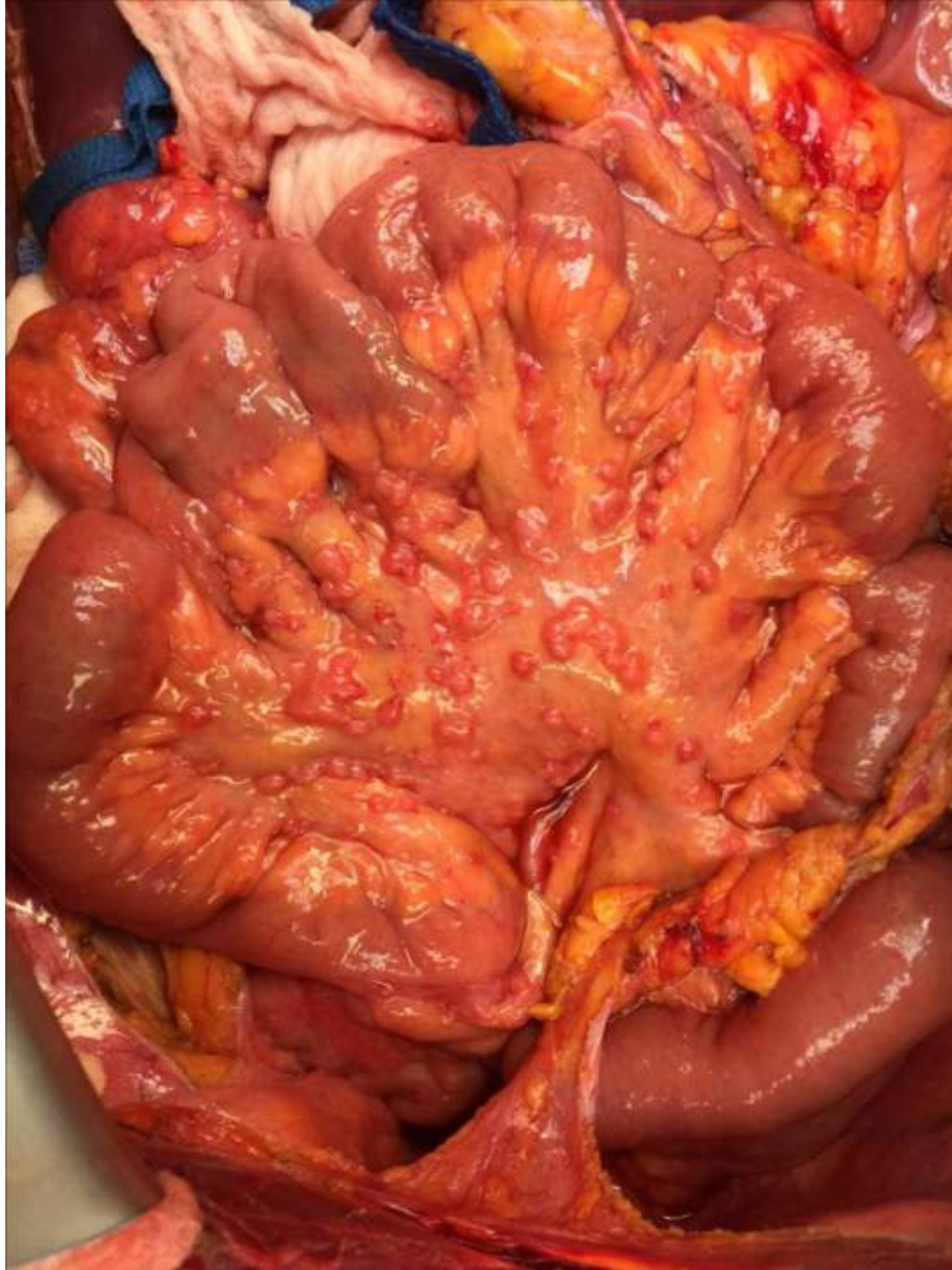




Small bowel manicure

Use the curved Mayo scissor to clear the small bowel and its mesentery of minimally invasive tumor nodules.







Extensive mechanical removal of cancer cells by irrigation:

- Frequent large volume irrigation is required to remove blood and tissue debris, clarify the anatomy and cool the high voltage electrosurgical dissection.
- Following the removal of each peritonectomy specimen the site is cleansed with 1 liter of warm saline and packed off by laparotomy pads or towels.
- Prior to HIPEC I irrigate with 3 liters of warm 0.25% H₂O₂ followed by 6 liters of warm saline. Three liters of warm distilled water or diluted Betadine has been recommended by others prior to final irrigation.



SAVE THE DATE

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ON PERITONEAL SURFACE MALIGNANCY

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