

The logo graphic consists of a green semi-circle at the top, followed by a horizontal line with a dotted pattern on both ends. Below this line are two more horizontal lines, one solid green and one dotted green.

IBDHorizons

A wide-angle photograph of a city skyline at sunset. The sky is filled with vibrant, colorful clouds in shades of pink, orange, and blue. The city buildings are silhouetted against the bright sky. In the foreground, a body of water reflects the colors of the sky. A semi-transparent purple banner is overlaid at the bottom of the image.

Advances in J-Pouch Management

ARS QUESTION 1

Which of the following statements is TRUE:

- A. Anal Transition Zone cancer surveillance is mandatory every year after pouch creation
- B. ATZ <2cm with stapled anastomosis is related to better functional outcome vs mucosectomy and handsewn anastomosis
- C. Risk of ATZ malignancy is 50% at 3 years after pouch placement
- D. None of the above

ARS QUESTION 2

Which of the following is TRUE regarding J pouch complications:

- A. Crohn's disease complications usually appear >12 months after pouch surgery
- B. Early pelvic sepsis is a high-risk factor for pouch failure
- C. Redo pouch surgery can be successful for select patients with J pouch failure
- D. All of the above

Present clinical case for session 2:

Clinical Case 2

20-year-old with UC with J pouch formation 15 months ago develops pre-sacral abscess and fistula tract. Pouchoscopy and EUA shows a pouch anal stricture and multiple fistulous tracts. You are considering the next steps.



ADVANCES IN J-POUCH MANAGEMENT

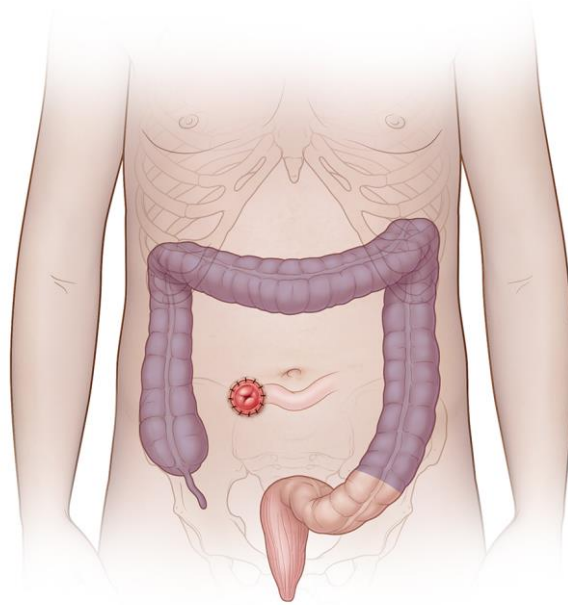
Feza Remzi, MD, FACS, FTSS(Hon)
Professor of Surgery
Director, Inflammatory Bowel Disease Center
NYU Langone Health
NYU Grossman School of Medicine



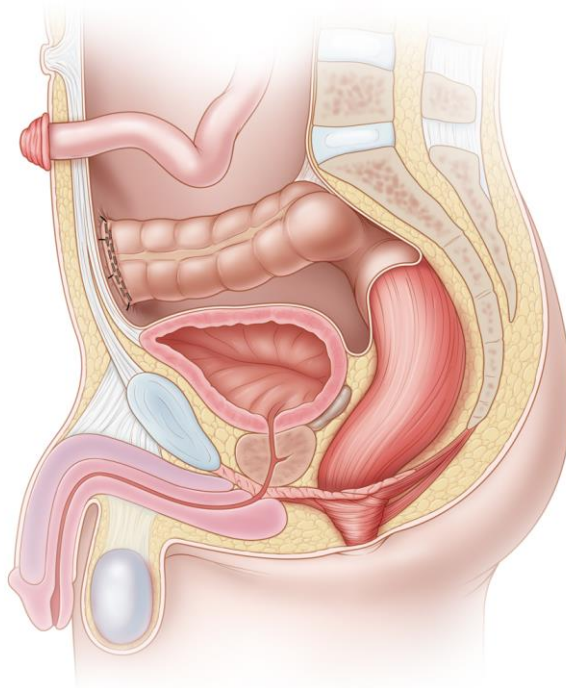
No disclosures

ADVANCES OR TRAPS?

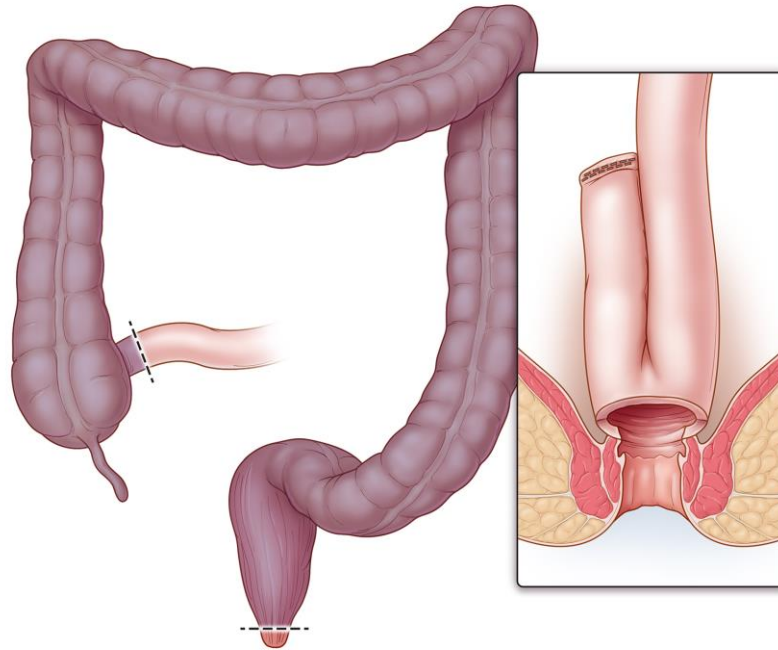
Subtotal colectomy and end ileostomy



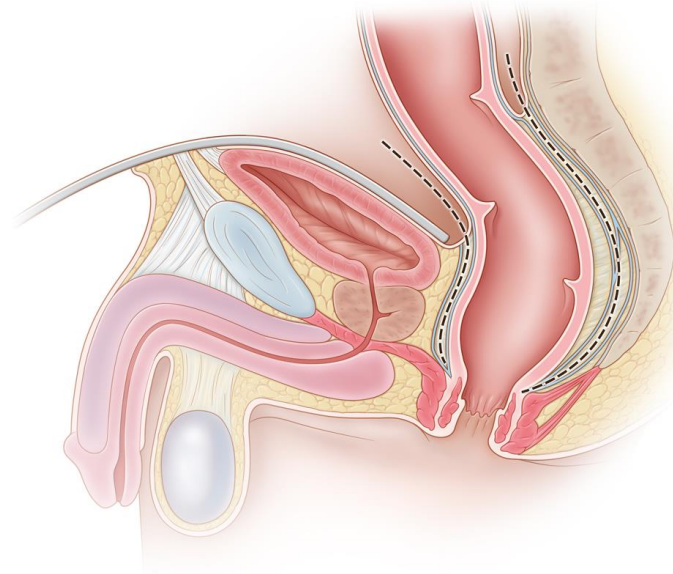
Rectal stump is attached to the fascia



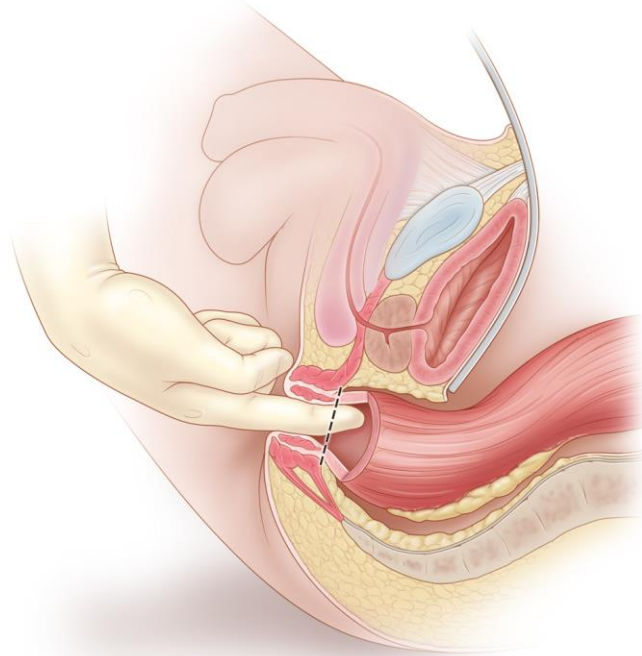
Restorative proctocolectomy with IPAA

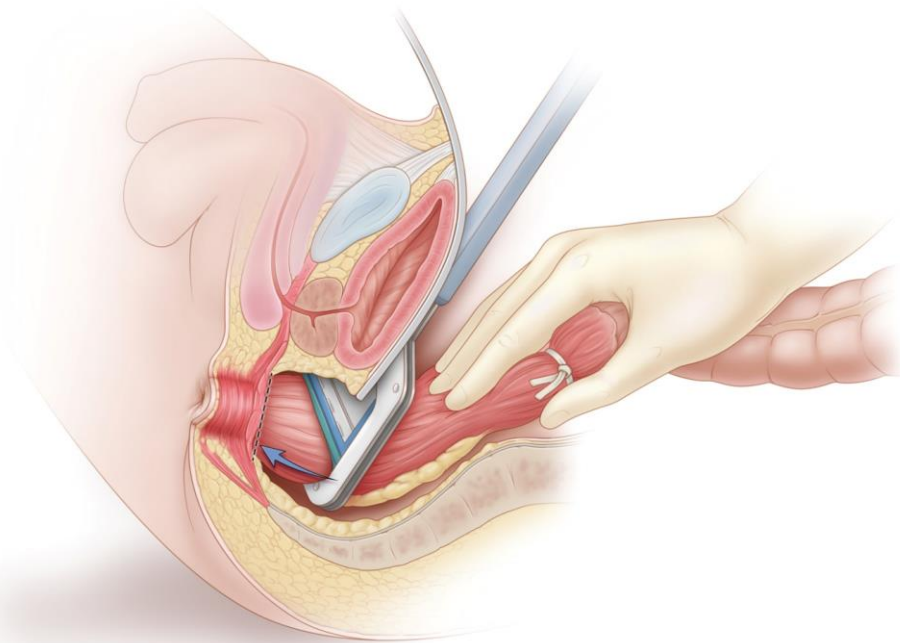


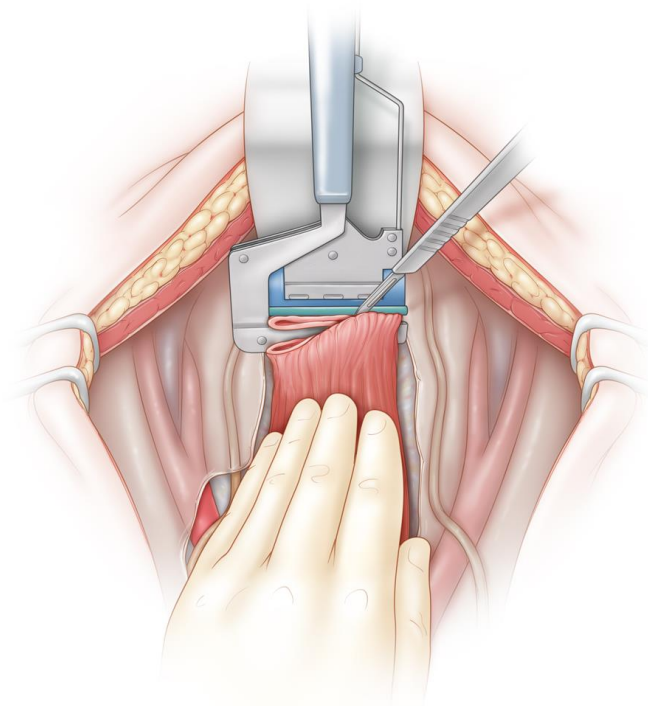
Dissection plan



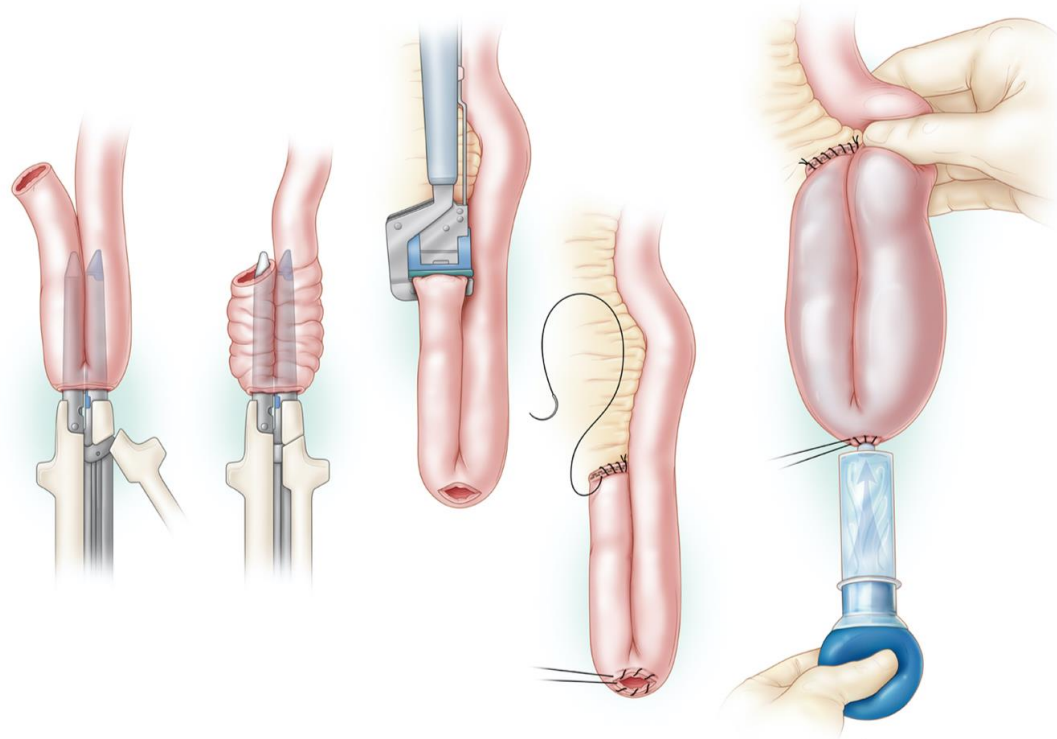
Digital exam during proctectomy

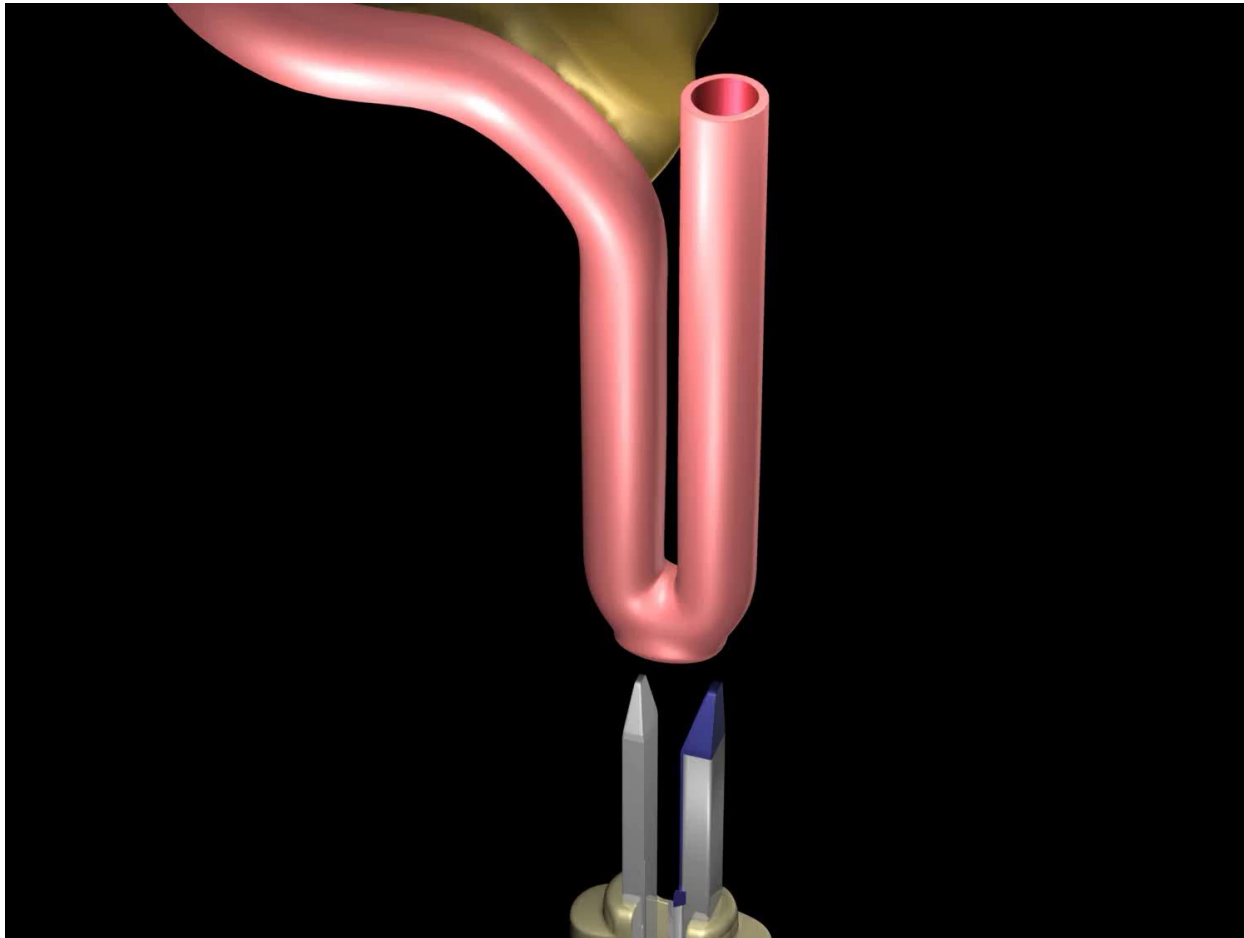






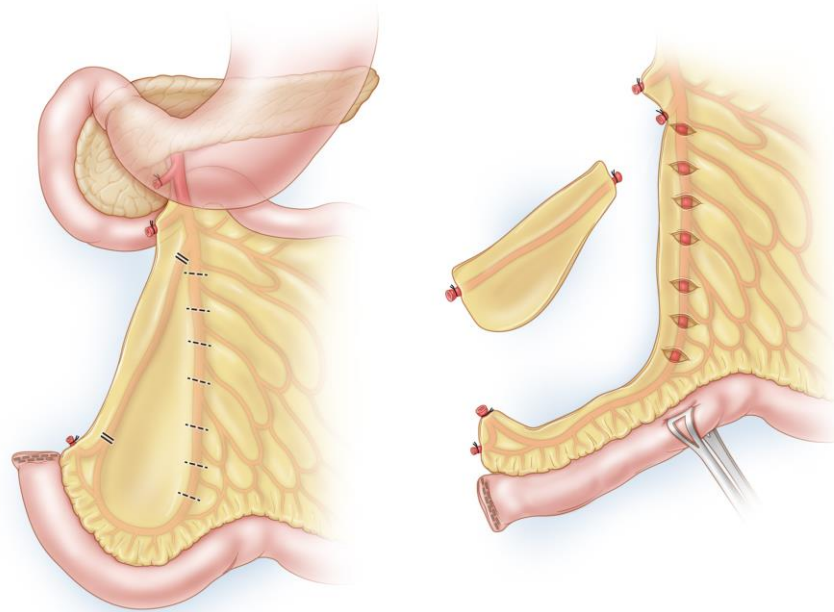
Creation of the ileal pouch and saline leak test

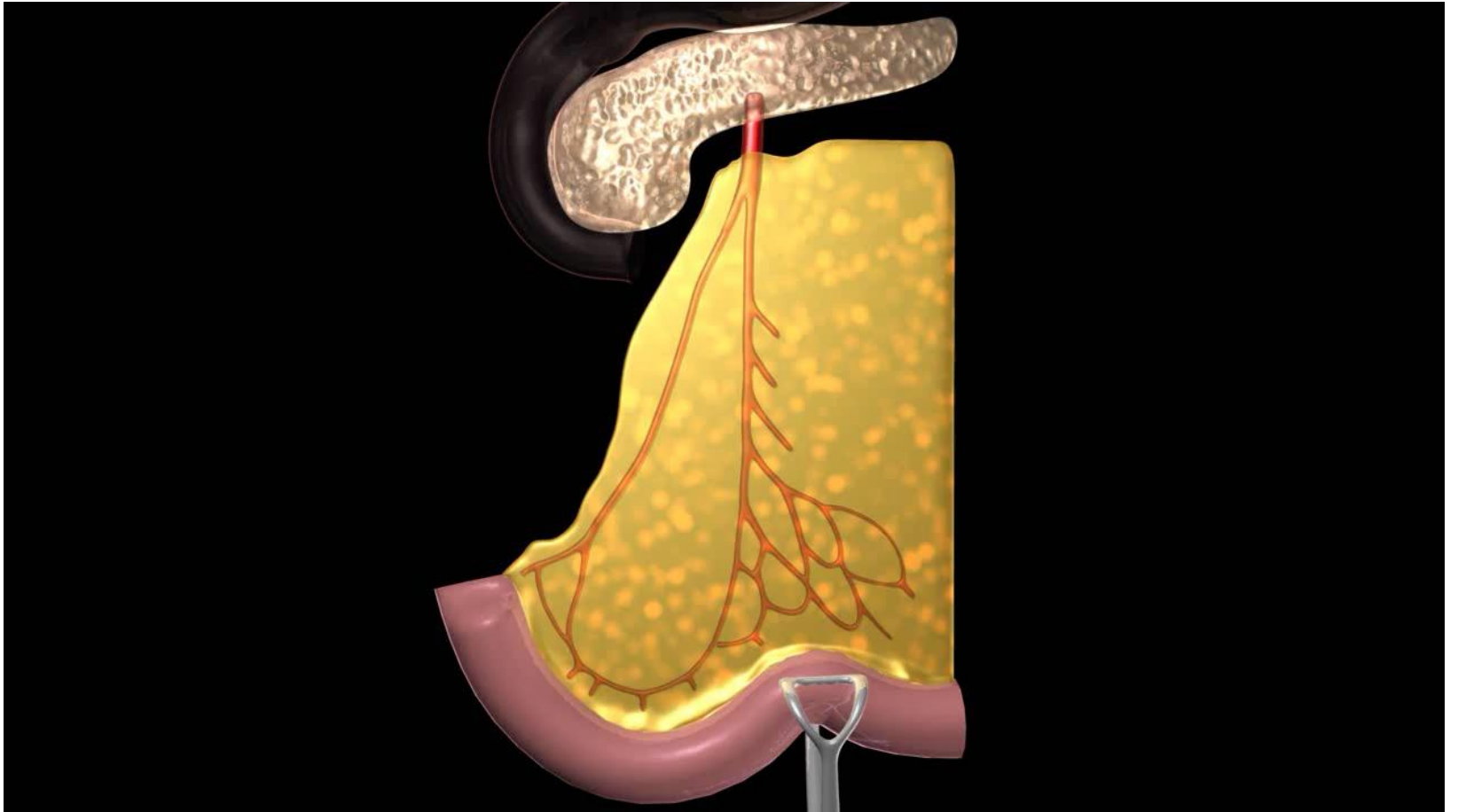




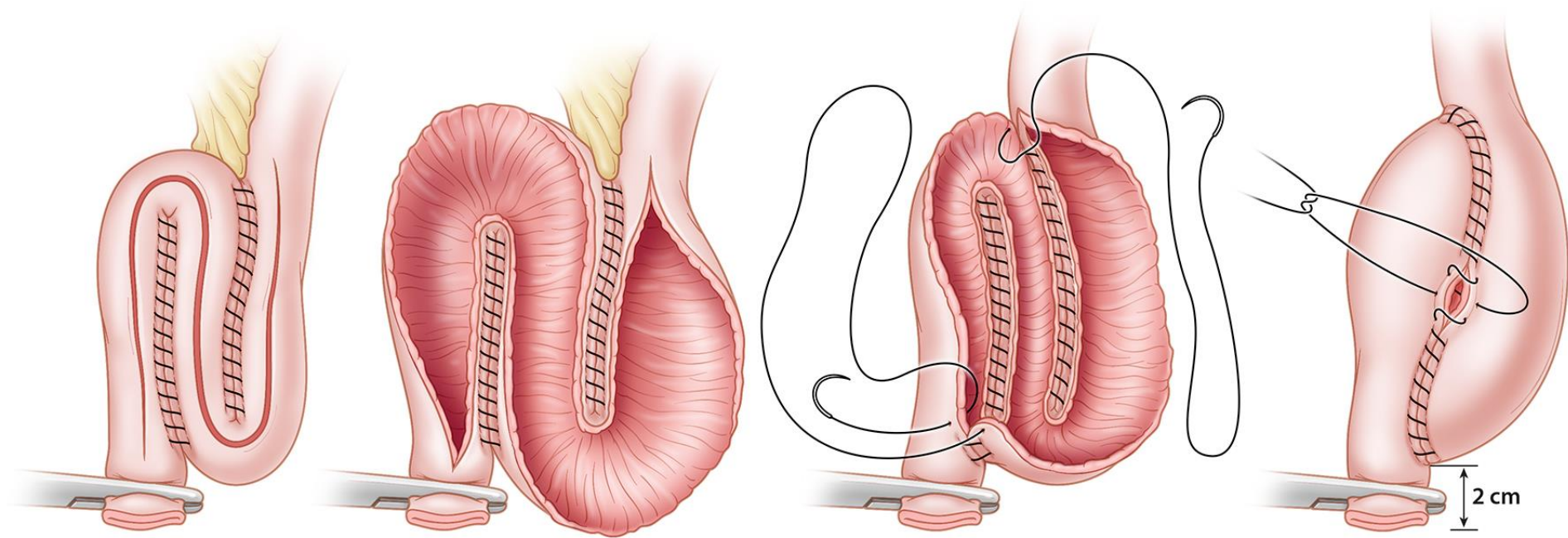
Difficulty in reach

High ligation of the ileocolic artery and peritoneal incisions on the mesentery

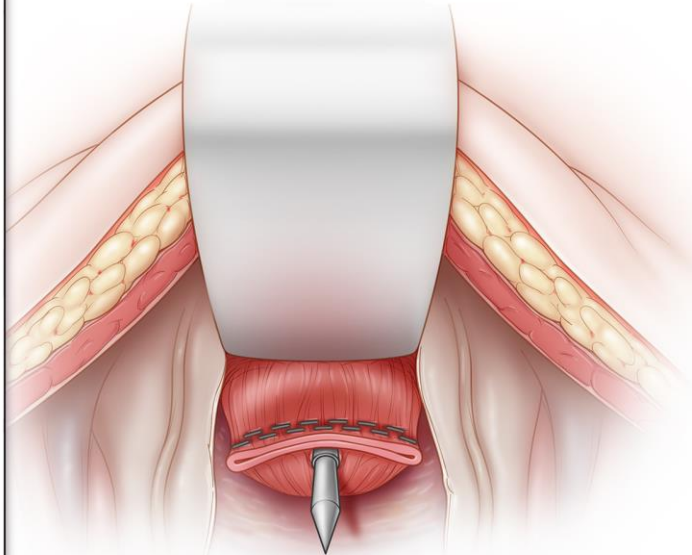
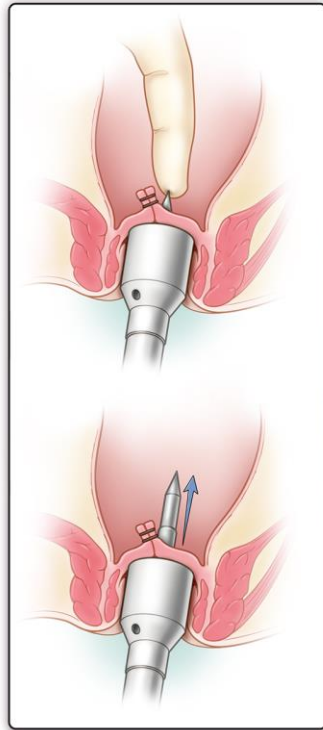


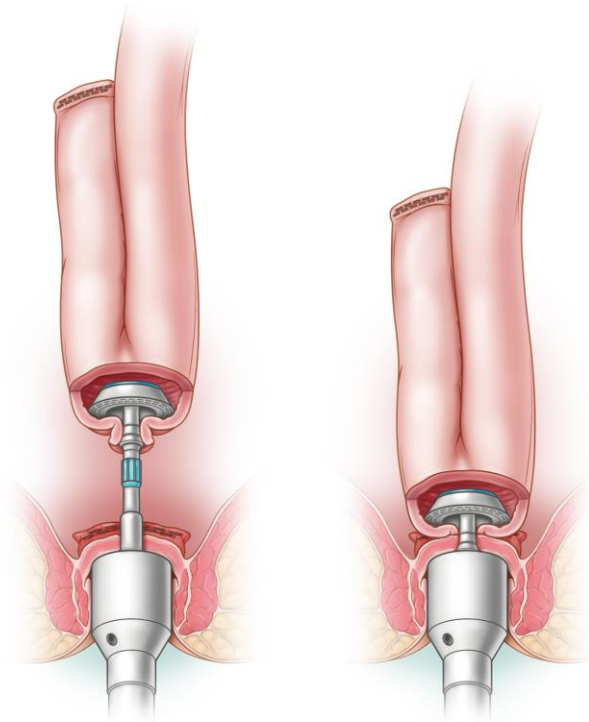


S pouch can provide additional 2-4 cm reach

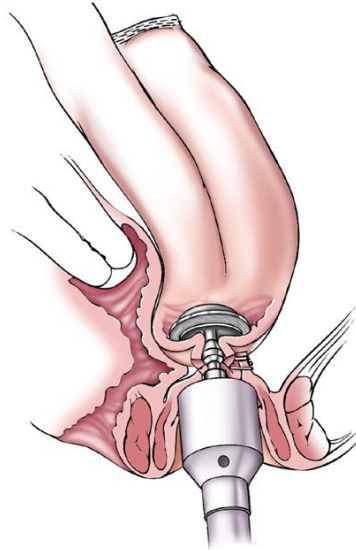


Double stapled pouch anal anastomosis

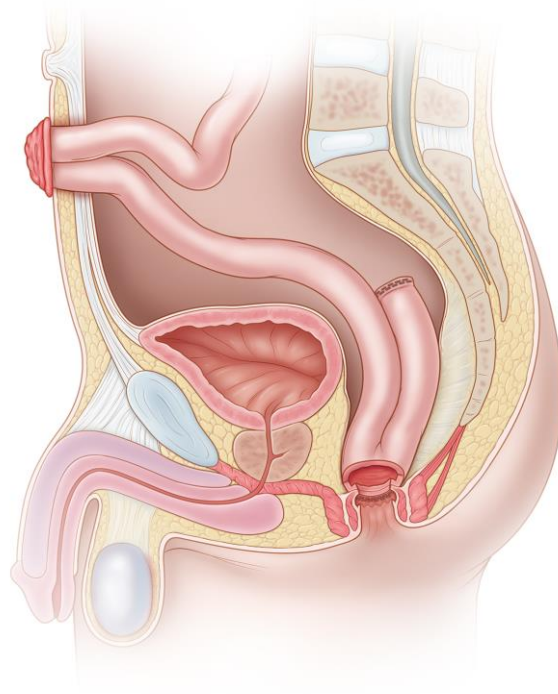




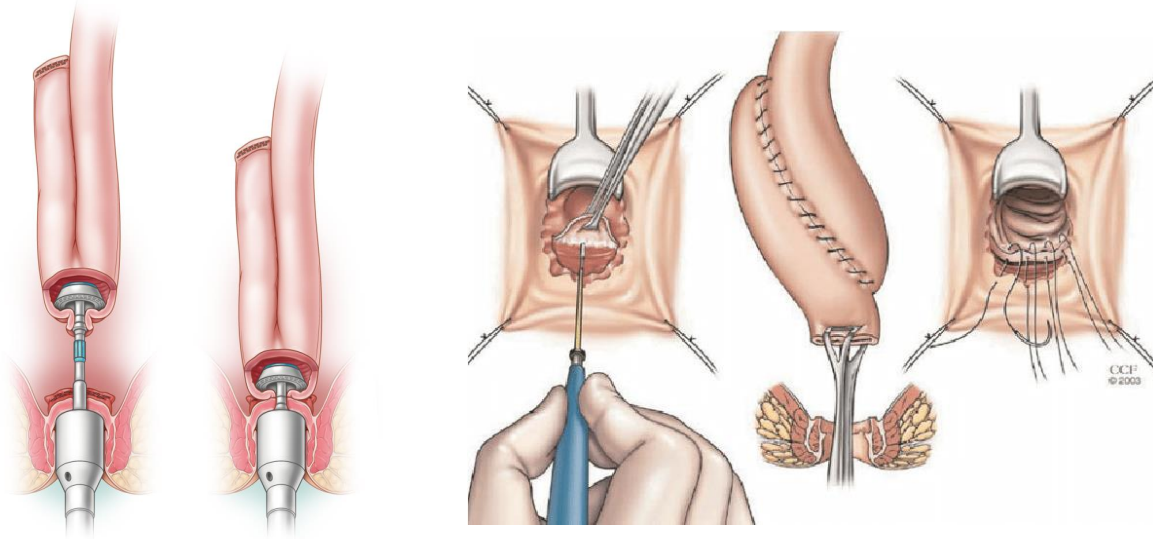
Caution not to create vaginal fistula

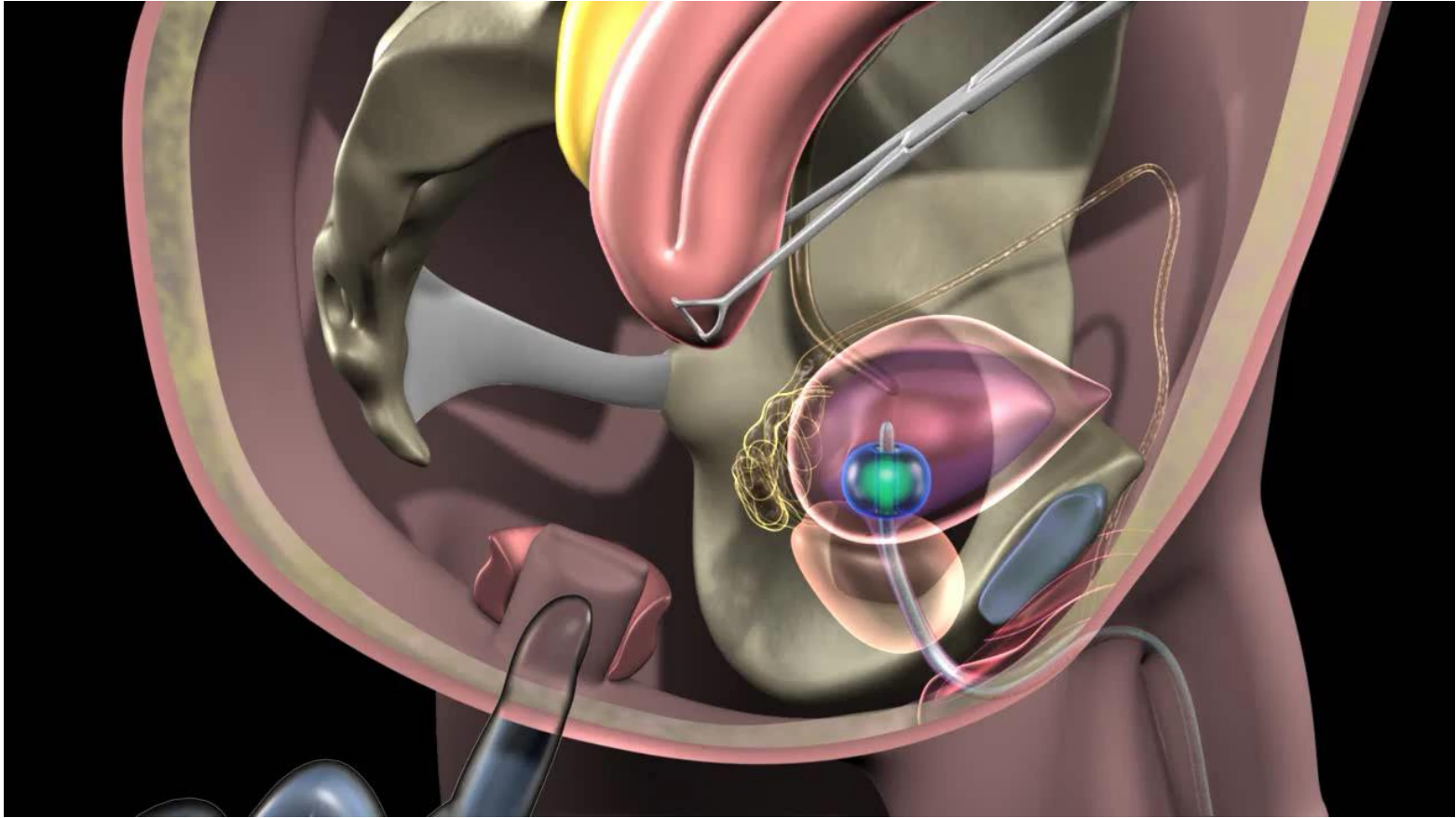


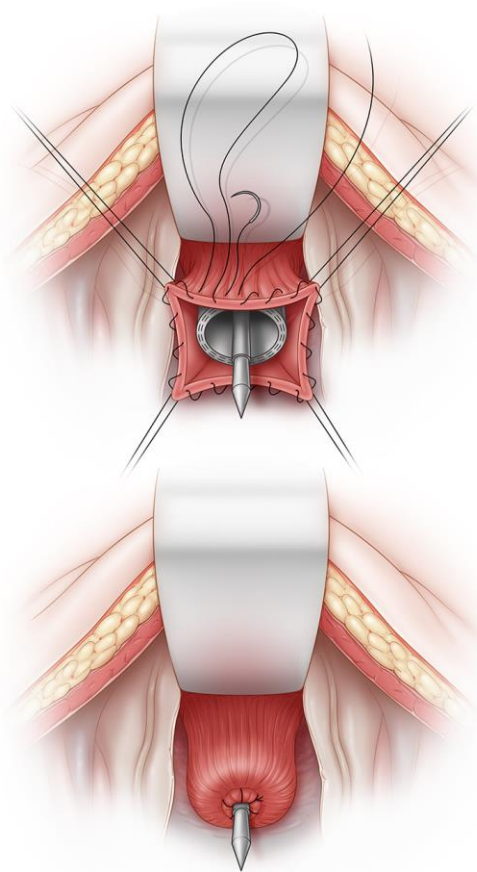
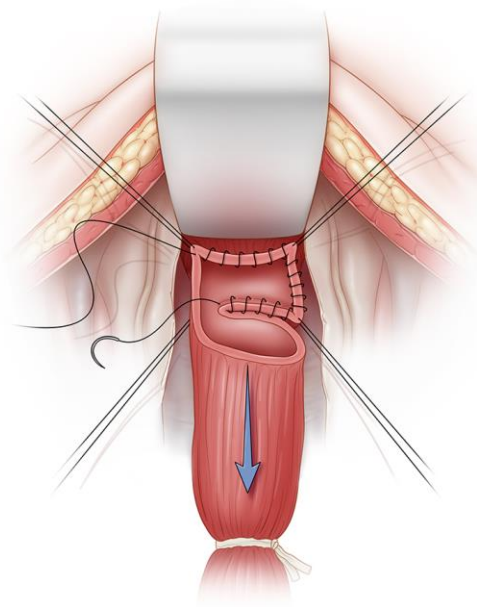
Anatomy after IPAA



Stapled or Handsewn anastomosis







ECCO Guidelines on Surgery for UC (2021)

- IPAA may be constructed using either a stapled or handsewn technique, with comparable functional outcomes. Thus, the type of anastomosis should be left to the surgeon's discretion

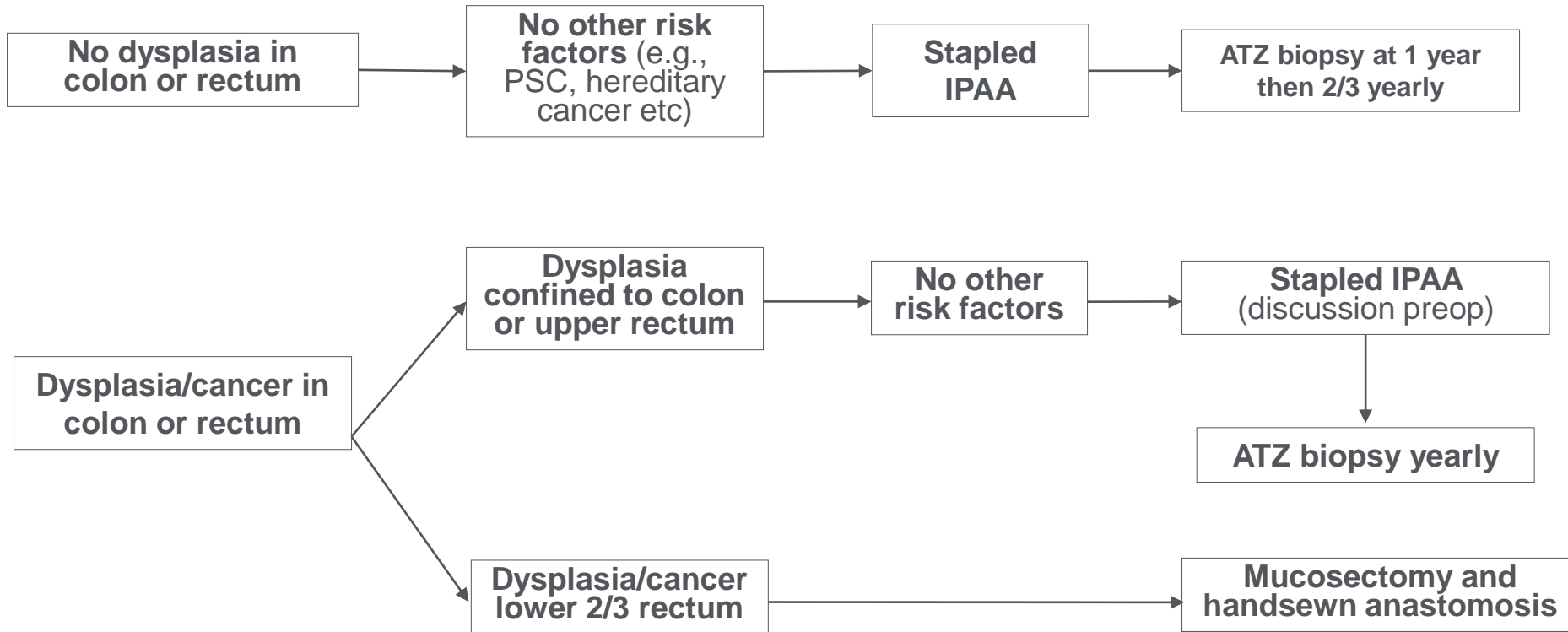
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Stapler vs Mucosectomy

- Function
- CCF N >3000
- Patients functional outcome and QOL were evaluated at 1,3,5,10 years after their IPAA surgery
- No difference in QOL
- Nighttime BM,daily and nocturnal seepage and pad usage and incontinsens were better in stapled group
- Septic Complications were less in stapled group

Stapled vs handsewn anastomosis during IPAA



ECCO Guidelines on Surgery for UC (2021)

- A modified 2-stage IPAA is associated with fewer septic and non-septic complications and with shorter hospital length of stay than 3-stage or 2-stage IPAA

ECCO Guidelines on Surgery for UC (2021)

- A modified 2-stage IPAA is preferred over a 3-stage IPAA with fewer septic and non-septic complications and with shorter hospital length of stay than 3-stage or 2-stage IPAA

The Outcome After Restorative Proctocolectomy With or Without Defunctioning Ileostomy

Diseases of the
Colon & Rectum

Feza H. Remzi, M.D.,¹ Victor W. Fazio, M.B., M.S., F.R.C.S.,¹ Emre Gorgun, M.D.,¹
Boon S. Ooi, M.D.,¹ Jeff Hammel, M.S.,² Miriam Preen, B.S.N., R.N.,¹
James M. Church, M.B., B.Ch.,¹ Khaled Madbouly, M.D.,¹ Ian C. Lavery, M.B.B.S.¹

¹ Department of Colorectal Surgery, Cleveland Clinic Foundation, Cleveland, Ohio

² Department of Biostatistics and Epidemiology, Cleveland Clinic Foundation, Cleveland, Ohio

- Included 277 patients without ileostomy during IPAA
- Septic complications were similar compared to group with ileostomy
- Quality of life and functional outcomes were similar
- RP/IPAA can safely be performed without diverting ileostomy in **CAREFULLY SELECTED** patients

Selection criteria for avoidance of ileostomy

- Experienced surgeon
- Elective procedure
- Motivated patient
- Low-dose prednisone (<20 mg/day)
- No immune-modulating agents/ biologics
- Uneventful operation

MIS and IPAA

Just stick to the same principles

Transanal ileal pouch

- Better visualization and access during pelvic dissection?
- Fewer staple firings
- Risk of anastomotic leak is similar compared to conventional technique
- Functional outcomes?

Transanal ileal pouch

- Better visualization and access during laparoscopic dissection?
- Fewer staple firings
- Risk of anastomotic leak increased compared to conventional technique
- Functional outcomes?

Transanal transection single-stapled anastomosis (TTSS)

- Precise distal transection and a single-stapled double purse-string anastomosis
- Proof of concept study showed promising outcomes during IPAA (in 7 patients)
- Larger studies needed

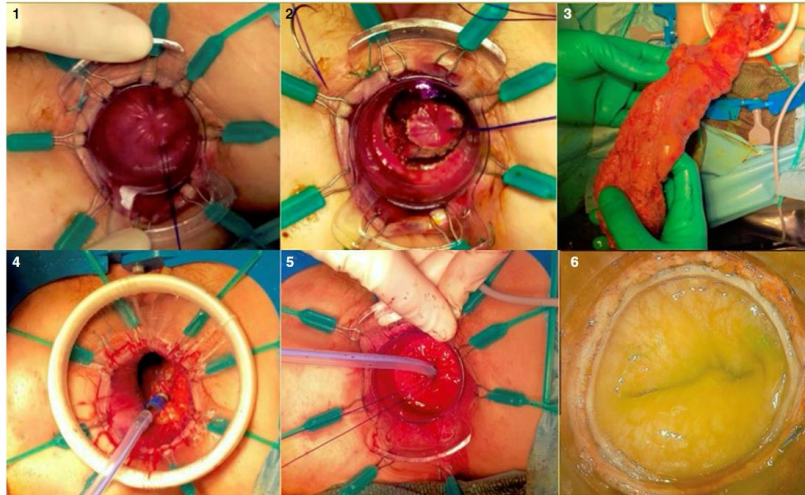


Figure 1. Procedural steps: 1, transanal pursestring; 2, full-thickness, circumferential rectotomy; 3, bowel extraction; 4, insertion of a circular stapler anvil, with a tubular drain on its tip; 5, pursestrings placed at the distal rectal cuff; 6, anastomosis perfusion assessment by ICG FA.

Reoperative pouch surgery

Remzi Principle 1

“ When one can live happily & good quality of life with a stoma, trying to convince them for a re-do pouch surgery is a great disservice “

Remzi Principle 2

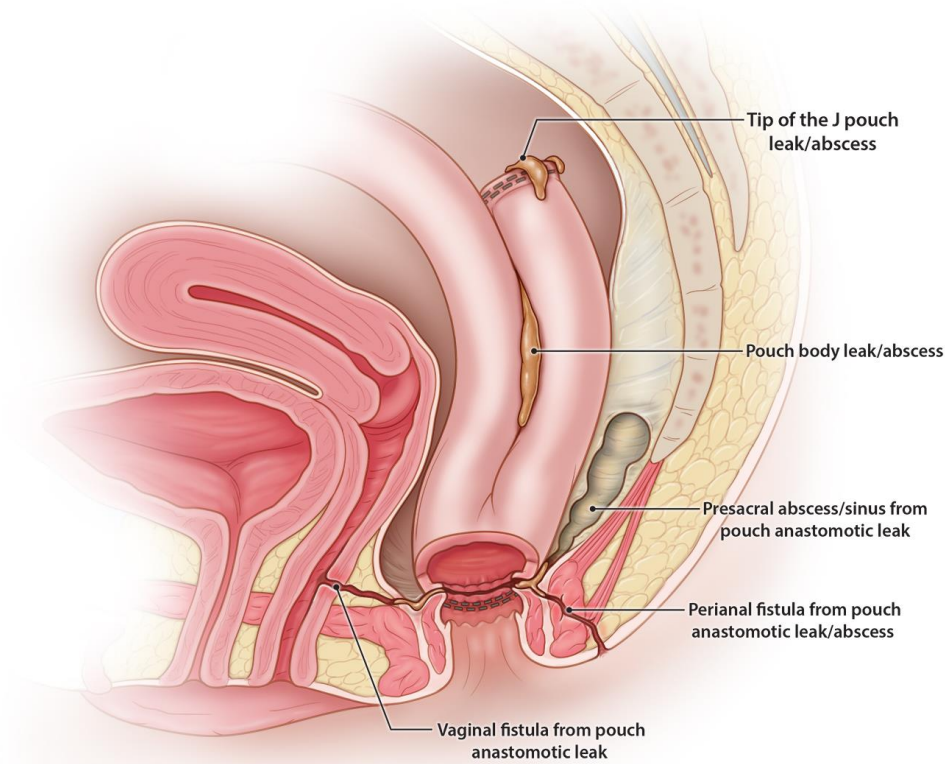
“ When one cannot live happily & good quality of life with a stoma, trying to convince them for a pouch excision is a great disservice “

Principles of re-operative pouch surgery

- Humility
- Teamwork; surgeon, gastroenterologist, radiologist, pathologist, PAs, NPs, WOCN and floor nursing
- Respect
 - Patient
 - Pathology; unpredictability
 - OR staff
- Strategize
- Repetition is the mother of skills
- This is a surgery needs to be done in teams' practices that does it everyday as a group

General Principles

- Re-evaluate for technical failure
- “CHECK YOUR Own or OTHERS’ FOOT STEPS”
- Did patient have a perioperative septic complication?
- When did the issues with pouch start?
- 6 months to one year after surgery is high likely technical
- Work-up: GGE, Pelvic MRI, EUA & flexible pouchoscopy



Structured Reporting of Pelvic MRI for J Pouch Evaluation NYU Langone Health Template

FINDINGS:

Anastomosis/suture line assessment:

IPAA anastomosis: **Anastomosis**
Tip of J suture line: **Suture Line**
Pouch body anastomosis: **Pouch Body**

Rectal cuff/Anal Transitional zone (ATZ):

Length (if ring shaped staple line at IPAA seen): **length**Length:cm/Unable to determine cuff length.
Cuffitis: **Cuffitis**:Yes./No.

Pouch body:

Size: **Size**:Normal./Dilated./Small.
Pouchitis: **Pouchitis**:No./Yes.
Stricture:**Stricture**:No./If yes, describe location of stricture within the pouch (proximal, mid or distal).

Pouch inlet/outlet:

Pouch inlet and pre-pouch ileum: **inlet**
Pouch outlet stricture: **Stricture**:Yes/No

Peripouch Mesentery:

Position of mesentery relative to pouch: **Position of mesentery**:Anterior/Posterior/Right Lateral/Left Lateral
Mesentery vessel twist: **Twist**:Yes/No

Pelvic abscess or perianal fistula NOT related to anastomosis or suture line: **Other**:None./Yes. **Describe**

Pelvic Lymph Nodes: **Field 10**:.../No lymphadenopathy./No enlarged lymph nodes.

Skeletal: **Field 15**:.../No aggressive lesions./Degenerative changes in the spine. No aggressive lesion.

Other Findings: **Other findings**

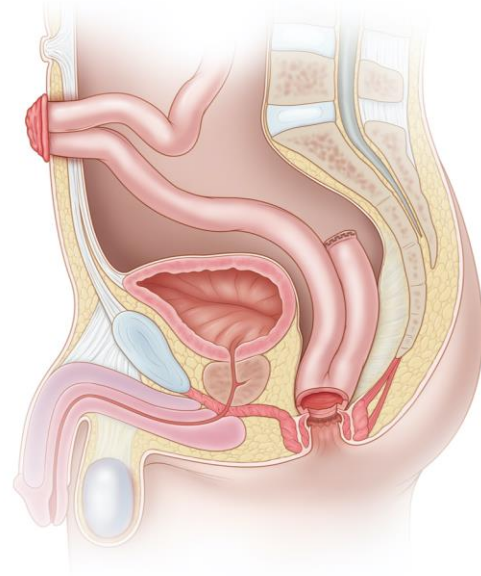
18 key features required for complete J pouch assessment

- Anastomosis (IPAA, tip of J, pouch body)
- Cuff (length, cuffitis)
- Pouch body (size, pouchitis, stricture)
- Pouch inlet/pre-pouch ileum (stricture, inflammation, sharp angulation)
- Pouch outlet (stricture)
- Peripouch mesentery (position, mesentery twist)
- Pelvic abscess
- Peri-anal fistula
- Pelvic lymph nodes
- Skeletal abnormalities

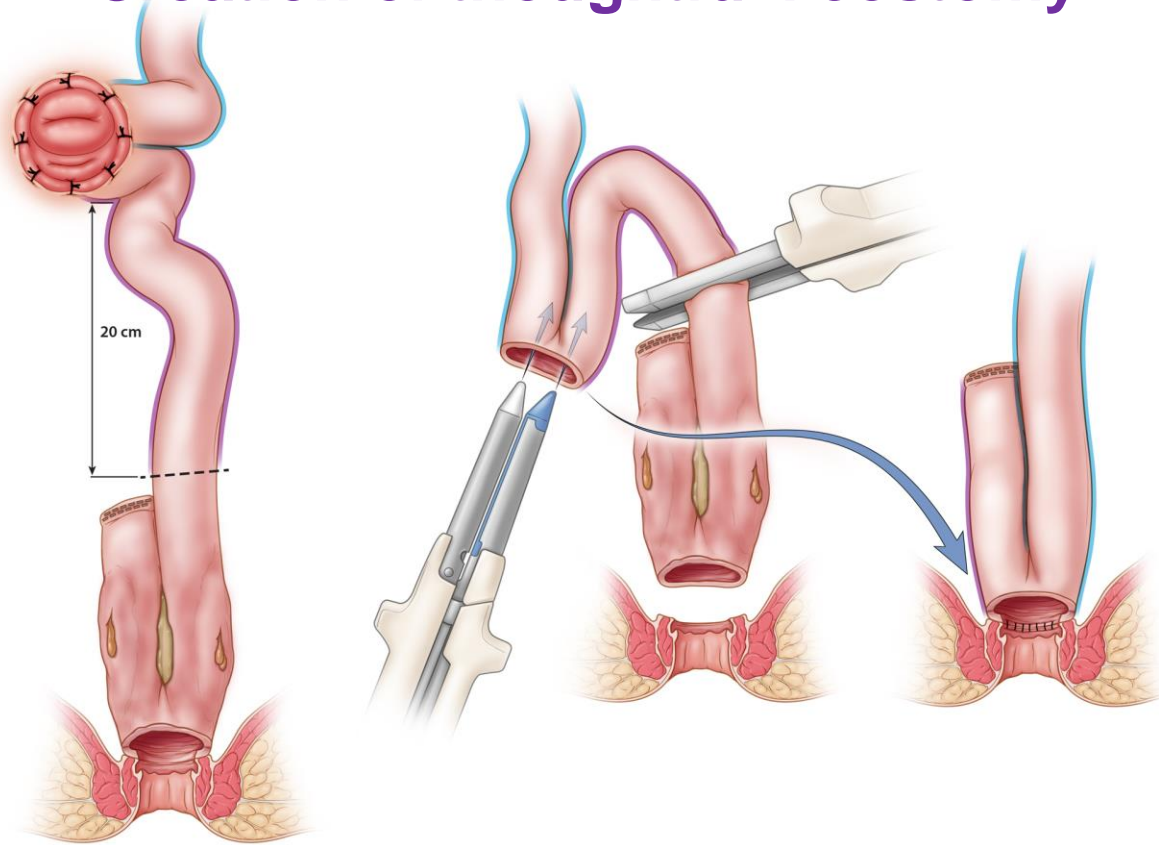
Huang, Remzi et al. AJR, 2021

“Thoughtful” ileostomy

- Loop ileostomy approximately 20 cm upstream of pouch
- Facilitates creation of new pouch (if needed) in future
- Can be performed laparoscopically more than 50% of the cases



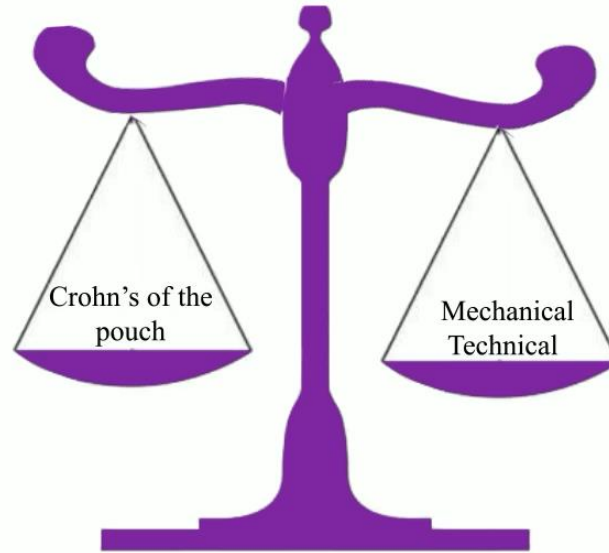
Creation of thoughtful ileostomy



Mechanical findings in patients with pouch failure who were referred to as Crohn's of the pouch

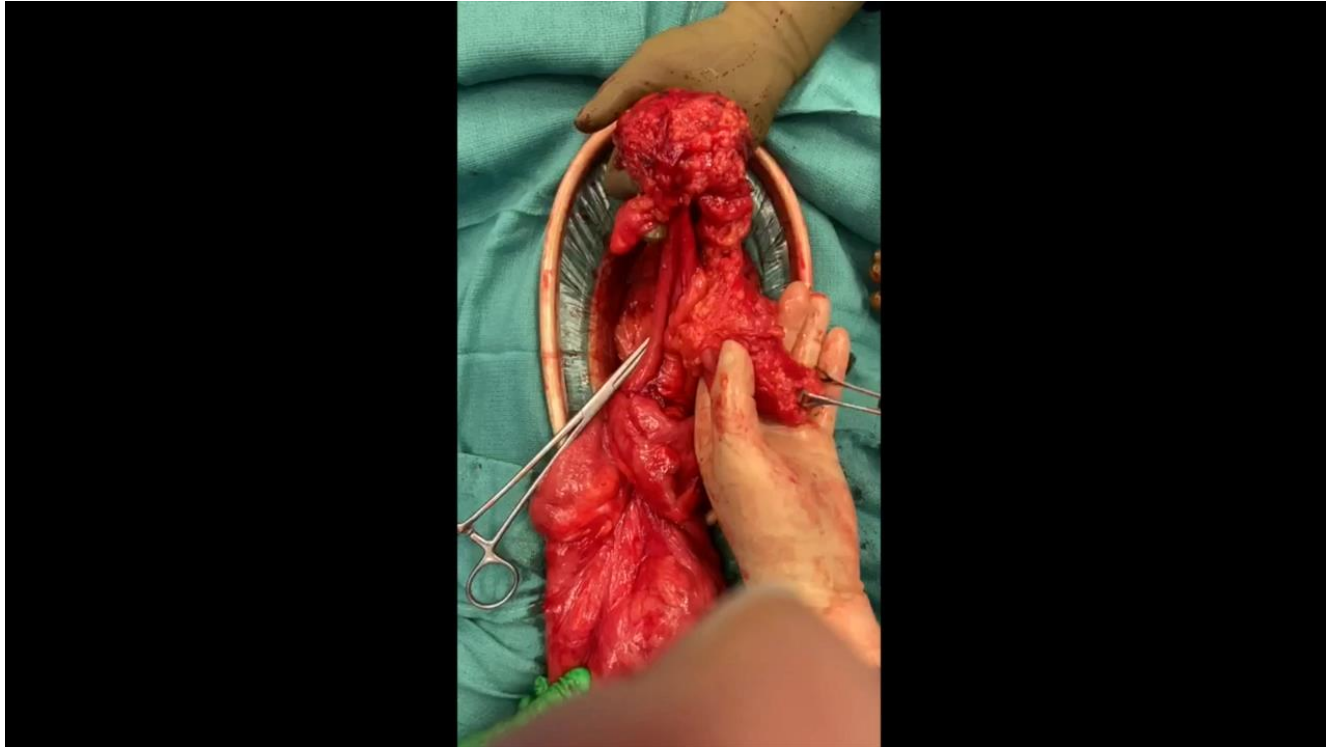
- 77 patients had re-do IPAA between 9/2016 – 10/2018
- 68% of the patients were labeled and referred to as CD of the pouch
- The majority of the patients had more than one indication requiring re-do IPAA: Pelvic sepsis, long rectal cuff, strictures, twist, cuffitis/pouchitis
- Re-do IPAA was successful in 85% of the patients
- Only 4 (10%) patients had CD of the pouch postoperatively (pathologic or clinical diagnosis)

Mechanical vs Crohn's of the pouch?



Symptoms within 6-12 months

Long rectal cuff, mesorectum & pouch twist causing obstructive defecation



Re-do IPAA vs primary IPAA

- 113 patients with re-do IPAA were compared with 121 patients with re-do IPAA
- Thirty-day morbidity was similar (Re-do: 51% vs Primary: 46%)
- Number of bowel movements, urgency, incontinence, pad use, seepage were more common after re-do IPAA
- Restrictions, QOL and patient happiness were similar
- Re-do IPAA is a patient driven procedure and associated with high QOL in motivated patients

Pouch excision and creation of a new pouch vs salvaging the existing pouch

- Most common indications for new pouch creation:
 - Chronic pelvic infection compromising integrity of the pouch (50%)
 - Small & unusable pouch (33%)
- No patient developed short-bowel syndrome
- Restrictions and QOL were similar
- Pouch survival was similar (New pouch: 92% vs Existing pouch: 85%)
- New pouch creation can safely be performed

Conclusion

- Define exactly what you are calling Crohn's disease
 - Hx, Hx, Hx
- What does the patient want?
- What are the multidisciplinary work up findings ?
 - Mechanical, Crohn's or Both?
- Revise or reconstruct options are all on the table, complemented by liberal medical therapy if concerns of Crohn's disease is high
- Both the patient and the institution needs to understand it may be a life long relationship

Thank you





IBDHorizons

Panel Discussion

Moderator: Anita Afzali, MD

Feza Remzi, MD

Christina Ha, MD

Bincy Abraham, MD

Casey Chapman, M.D.

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1st Gulf Coast Symposium

Omni Royal Hotel New Orleans, Louisiana
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