COLORECTAL WEB MEETING SEPTEMBER 22, 2022





COLORECTAL AND UROGENITAL CARE

Case



- 12-year-old boy
- Hirschsprung disease
- At 3 mo had a Lap-assisted pull-through and rectal Botox injection
- Did well for 3 years?



- 3yo had obstructive symptoms, no stooling, nausea, vomiting
- Contrast enema and rectal biopsy negative for retained Hirschsprung disease
- Patient was referred to GI service
 - Polyethylene glycol, Senna, Botox
- No improvement
- Stooling only with irrigations

Question

Patient continues with obstructive symptoms. X-ray shows

a dilated left colon.

What would you do?

- a. Irrigations
- b. Botox
- c. Colonoscopy
- d. Ileostomy
- e. Colostomy



ILEOSTOMY to rest the colon. Patient gain weight and asymptomatic



4yo and 9m Laparoscopic-assisted loop ileostomy

5yo and 11m ileostomy closure with ileocecal resection

Question

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After ileostomy closure, patient continues again with obstructive symptoms (nausea, vomiting and abdominal pain) and again very dilated colon. Restart irrigations.

What would you do?

- a. Work-up for persistent obstruction
- b. Redo pull-through
- c. Ileostomy
- d. Colostomy
- e. Botox





Work up for persistent obstruction

 6y7m - Rectal manometry: Recto-anal-inhibitory reflex was absent. Simulation defecation showed insufficient anal canal relaxation

- 6y10m 4th Botox anal injection
- 7y3m Colonic manometry: Suggestive of poor colonic motility throughout the colon, primarily in descending colon



7y5m

Laparoscopic placement of Chait cecostomy



• 7yo and 8m:

- Unsuccessful antegrade enemas.
- Flush does not come out through the anus.
- After flush patient requires rectal irrigations.



Contrast study through cecostomy tube





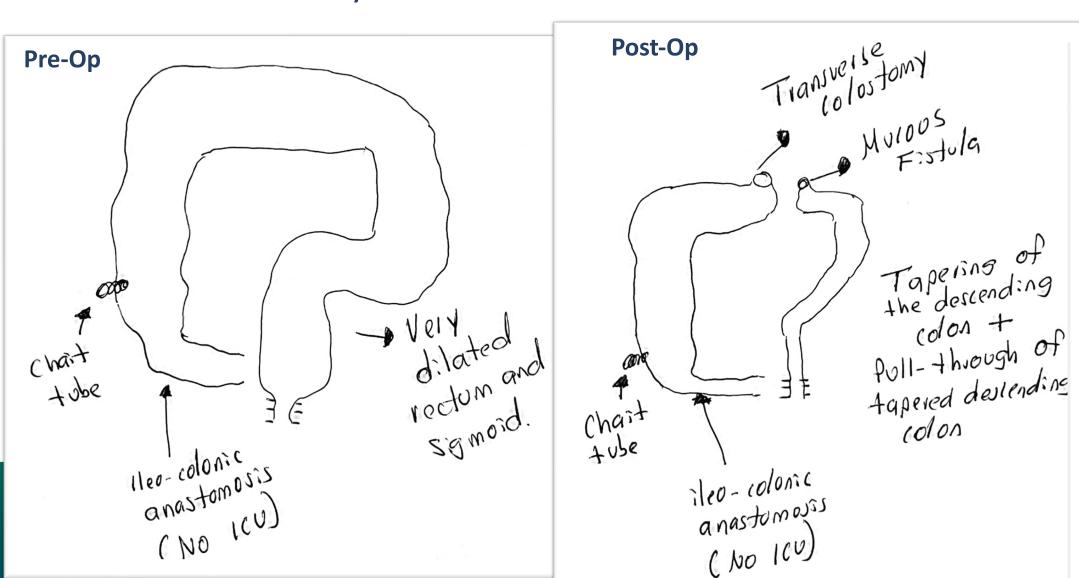




- 8yo: Rectal examination under anesthesia and fullthickness rectal biopsy
 - Good sphincter. Intact pectinate line.
 - Pathology Surgical report: No ganglion cells. No hypertrophic nerves. Extensive smooth muscle hyperplasia and fibrosis in the submucosa.

8y – Proctocolectomy 20 cm. Tapering of gigantic descending colon to allow a pull-through. Creation of left transverse colostomy and mucous fistula.







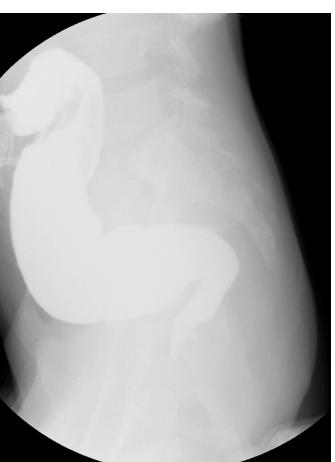
Surgical pathology report

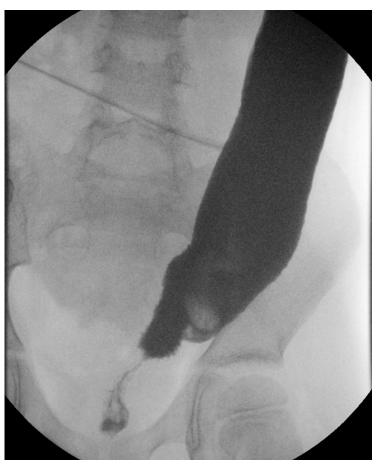
 Ganglion cells present circumferentially at the proximal and distal margins and throughout the entire resection length without nerve hypertrophy or eosinophilia infiltrate.

Distal Colostogram











8y9m: Colostomy closure

 Follow up, 13 days post-op. X-ray clean colon. Fecal incontinent. Urinary continent. Irrigations twice daily

Started bowel management with antegrade enemas



• 8y11m - 11y6m:

 Enemas through cecostomy produce nausea and vomiting requiring rectal decompressions or irrigations after the flush. Colorectal Center at Children's Hospital Colorado

11y6m

- No bowel movements with antegrade enema. Nausea and vomiting.
- Requires irrigations
- X-ray: clean and decompressed



Question



With these symptoms, what would you do?

- a. Rectal manometry
- b. Contrast enema
- c. Examine under anesthesia
- d. Full thickness rectal biopsy
- e. B, C and D







11y7m: Exam under anesthesia

Digital exam with no mechanical obstruction. BUT, a tight anal canal with immediate explosive liquid bowel movement.
 Incomplete anal canal in all the circumference.

Plan: Schedule resection of left colon.



- 11yo and 11m: Left colectomy with colorectal anastomosis and Botox
 - Massive dilation of left colon
 - Pathology:
 - Left colon. Ganglion cells present.

Day 6 Post-op

- NG tube significant bilious drainage.
- UGI w/SBF no mechanical obstruction

 No effective antegrade enemas producing nausea and vomiting.
 Required rectal tube to resolve symptoms.



Day7 Post-Op Contrast study through cecostomy



Day7 Post-Op Contrast enema



Exploratory laparotomy was performed **

Findings:

- Dilated right colon
- Important colo-ileum reflux (history of ileocecal resection)
- Obstruction of the anastomosis on the site of previous colostomy (intrinsic and extrinsic)
- Functional and mechanical obstruction of distal colon (pelvic segment).

What would you do?



- a. Redo Pull-Through
- b. Total colectomy + ileo-anal anastomosis
- c. Ileostomy
- d. Left colectomy
- e. Permanent end colostomy
- f. Resection of cecostomy

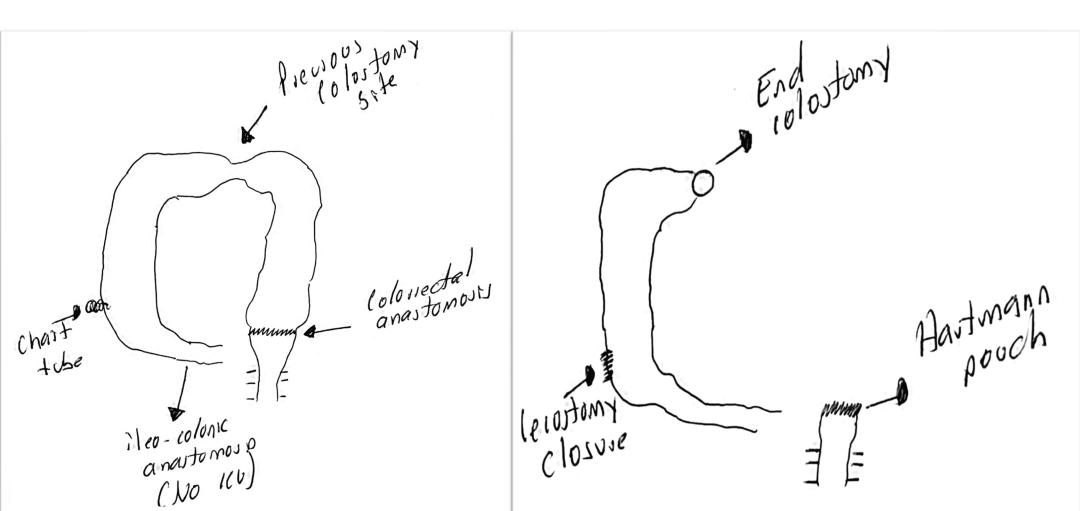
Procedure performed:

Pre-Op

• Left colectomy. Hartmann pouch. Resection of cecostomy. Creation of end colostomy.



Post-Op



Follow-up

Y

 Patient was discharged 10 days after last surgery.
 Eating, stooling through colostomy. Gaining weight

• 12y1m: Doing great!





Thank you

INTERNATIONAL CENTER FOR COLORECTAL AND UROGENITAL CARE