

Case #3

Requests reversal of ostomy

HPI

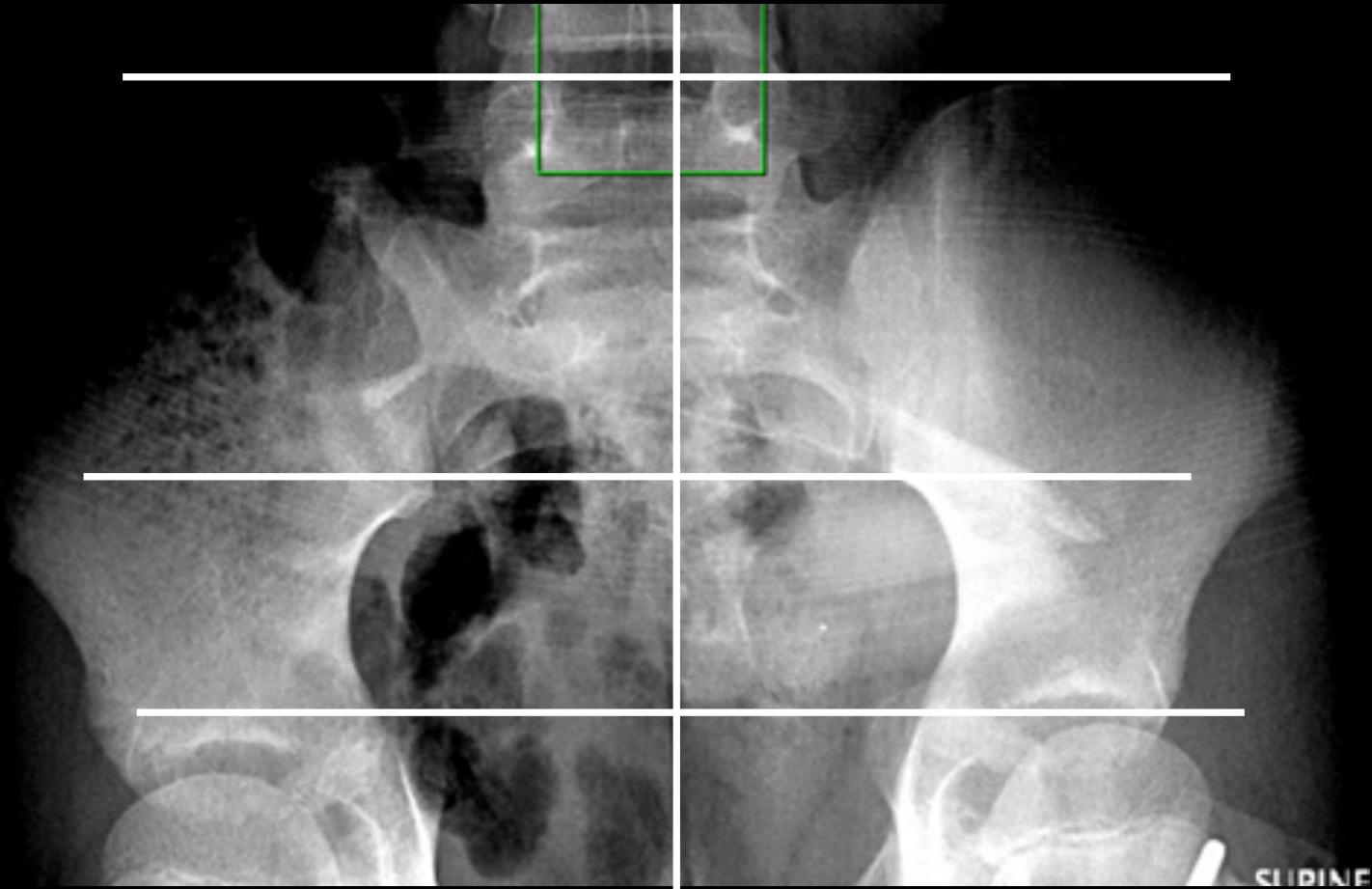
- 10 yo male presents to the ED with severe left sided abdominal pain and discharge from anus. He is febrile and tachycardic
 - He is admitted and ultimately diagnosed with colitis (Shigella) with overflow diarrhea into efferent limb
- Syrian Refugee recently immigrated to Canada. No prior medical documents available

PMHx/PSHx

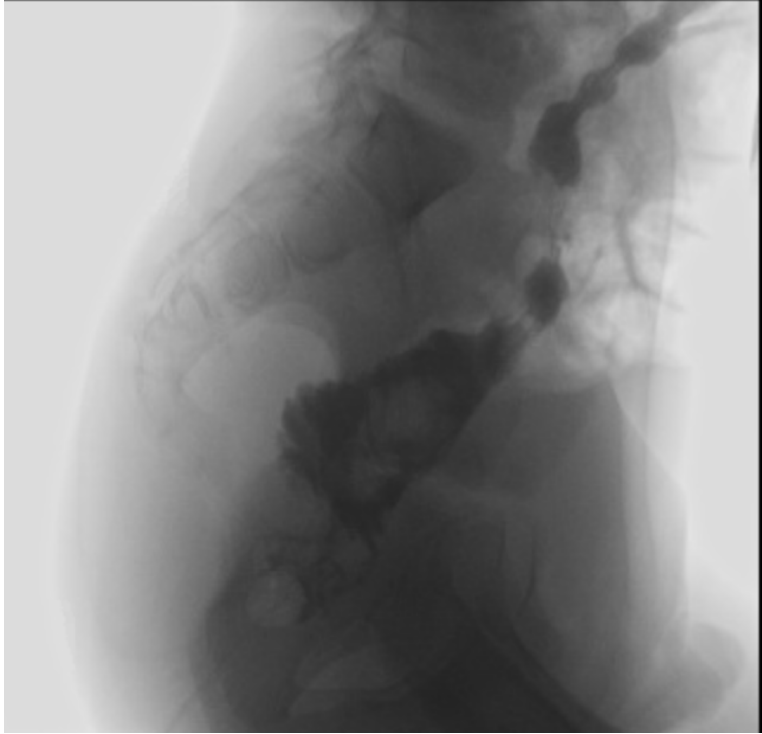
- Born full term and spent several weeks in NICU
- Passed stool within 24 hours
- Anus never looked normal and he is sent home with family performing dilations
- Age 2: first laparotomy and surgery on the “bladder”
- Age 3.5: second laparotomy and creation of a colostomy
- Age 4: third laparotomy and revision of colostomy (presumably the loop transverse colostomy he has now)
- 8 yrs old: laparotomy, pull through and PSARP complicated by perineal wound infection and significant scarring
- 8.5 yrs old: appendicitis with open appendectomy

Examination

- Multiple scars in the abdomen with midline laparotomy incision extending above umbilicus to pelvis
- Multiple left para-median incisions
- Multiple left para-stomal incisions
- RLQ appy incision
- PERIANAL exam:
 - Severely scared multiple incisions (not extending to coccyx)
 - Hypotonic anal sphincter, passes a # 6 Hegar
 - Hypersensitive to examination
 - Deep sulcus
 - Absent anal wink
 - ? Anterior shelf

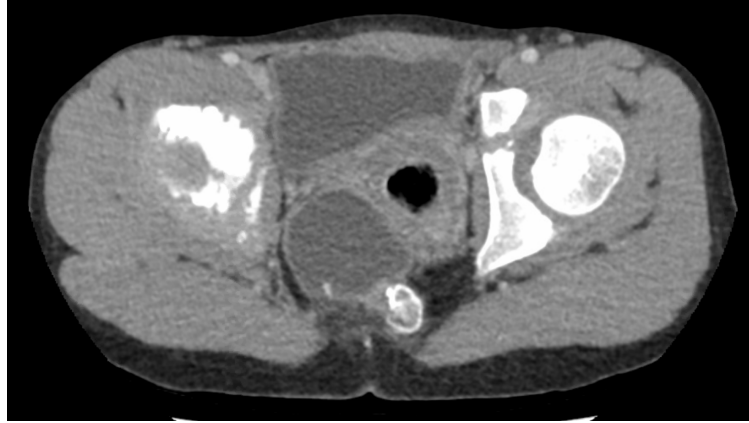


• SR = 0.58



LGIS THROUGH ANUS

- FINDINGS:
- LGIS DONE THROUGH ANUS (7F FOLEY CATHETER PLACED) DUE TO SEVERE ANORECTAL STRICTURE
- IRREGULAR MARGINS OF RECTUM AND COLON TO THE LEVEL OF COLOSTOMY LUQ
- POSTERIOR RECTOCELE



CT ABDOMEN AND PELVIS

- FINDINGS:
 - THICKENED DESCENDING COLON/RECTUM
 - PRESACRAL THIN WALLED CYSTIC MASS: 6.3 X 5.1 X 4.7 CM
 - LEFT PARAMEDIAN LOOP COLOSTOMY WITH AFFERENT LIMB INVOLVING TRANSVERSE COLON PRESERVED HEPATIC FLEXURE AND ASCENDING COLON AND CECUM IN NORMAL POSITION. EFFERENT LIMB INVOLVING RECTOSIGMOID

CT
abdomen
and Pelvis





MRI PELVIS AND SPINE

- Thickened rectum/sigmoid
- Complex configuration of anal verge with mild angulation at the AR junction and a narrowed canal
- Distal sacral vertebrae partially fused and inclined to the left (scimitar deformity)
- Thin walled presacral cyst not communicating with spinal canal favored to represent dermoid



Problem list

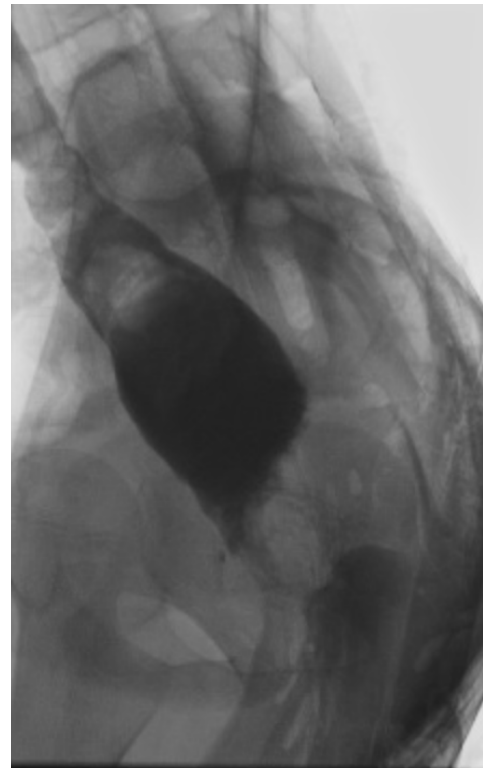
- Unknown anatomy with multiple prior surgeries and no medical records
- Presacral mass
- Anal stenosis
- Patient's primary desire for reversal of colostomy



December 2019

- EUA
- Pena stimulator to assess muscle fibers (none)
- Anoplasty (opened shelf anteriorly) (can now pass # 15 Hegar)
- Resection of presacral mass with tip of coccyx through posterior approach

- PATHOLOGY
 - Epidermoid cyst



LGIS (THROUGH MF)
JUNE 2020 (POST
RESECTION
PRESACRAL MASS)

- FINDINGS:
 - LEFT COLON AND RECTUM PATENT WITH NO STENOSIS
 - ANTERIOR TO RECTAL WALL, SMALL CONTRAST EXTRAVASATION ?FISTULA
 - POSTERIOR RECTAL WALL RECTOCELE
 - PATIENT UNABLE TO "HOLD" CONTRAST

ARM: to assess function prior to reversal

- Examination:
 - Lax sphincter (open at all times) with severe scarring “frozen anus”
 - External sensation normal
 - Absent wink reflex
- Sphincter resting pressure 65mmHg
- Sphincter squeezing pressure 135mmHg sustained for max 4 sec
- Rectal sensory:
 - Rectal threshold 20mL, pain at 40mL
- RAIR likely at 20mL dissension but given hypotensive sphincter can't test accurately
- On Straining:
 - Anal sphincter did not show proper relaxation
 - Balloon expulsion test positive (patient NOT ABLE to expel balloon)

Summary of findings:

- 1) HYPOTENSIVE ANAL SPHINCTER WITH LIMITED CAPACITY TO SQUEEZE
- 2) NO PROPER CONTINENCE MECHANISM OR PROPER OUTLET BARRIER FUNCTION

Current State

- Still not sure of anatomy given multiple prior laparotomies and ostomy revisions
- Patulous severely scarred anus with no tone and discouraging ARM results
- Patient currently has a poorly situated loop colostomy resulting in multiple leaks and requiring frequent ostomy changes (financial burden)
- Perceived para-stoma discomfort by patient
- Patient wants to reverse ostomy and function normally

Questions to the group

- My next plan was to take to the OR and create a new ostomy and perform colonic and rectal biopsies
 - Goals of this OR
 - To understand the anatomy
 - To understand underlying pathology
 - To create a “good” ostomy so that patient can experience life with a well functioning stoma. His only ABDO domain left is RLQ. I was thinking of giving him a loop ileostomy (easily reversible and leaves options open).
- QUESTIONS
 - IF YOU AGREE WITH THE ABOVE PLAN:
 - What type of stoma would you give him?
 - What happens if he hates the new stoma and still wants reversal?
 - What happens if he loves the stoma? Would you resect defunctioned colon?
 - IF YOU DON'T AGREE WITH THE ABOVE PLAN:
 - What other suggestions would you have?