Introduction

- with proctocolectomy ileal anastomosis, or more commonly known as a Jpouch, is a surgical modality for refractory ulcerative colitis (UC)¹
- Although effective, there are several known complications including pouchitis; inflammation of the ileal reservoir that may extend transmurally ^{2,3}
- A mechanical complication includes development of a de novo fistula such as pouch-vaginal fistula, perianal fistula, or enterocutaneous fistula⁴
- We present a rare case of a fistula between the Jpouch and the fallopian tube resulting in gynecological symptoms

Case Presentation

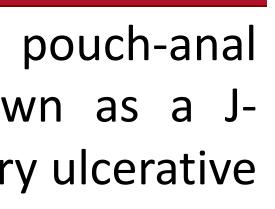
- A 45-year-old female with UC requiring prior J-pouch creation complicated by chronic pouchitis despite several courses of antibiotics and adalimumab presented to clinic with feculent vaginal discharge
- An MRI fistulogram was done revealing a small focus of fluid in the vagina but no communication between the vagina and pouch (Figure 1)
- Worsening diarrhea prompted ED visit where a CT demonstrated pouchitis and air within the vaginal vault (Figure 2)
- She was taken to OR for pouch excision, creation of ileostomy, and takedown of presumed vaginal fistula
- Intraoperatively, a dense adhesion between the left fallopian tube and the pouch was noticed and appeared to be the source of the fistula. Vaginoscopy demonstrated the vagina to be intact.
- Proctectomy with mucosectomy, closure of anus, takedown of fistula, and end ileostomy creation was performed.
- Pathology showed chronic ileitis and mucosal ulcerations, but no granulomas.
- On outpatient follow up, patient no longer reported feculent vaginal output

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J-Pouch-Salpingeal Fistulization: A Rare Consequence of Chronic Pouchitis

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Figures



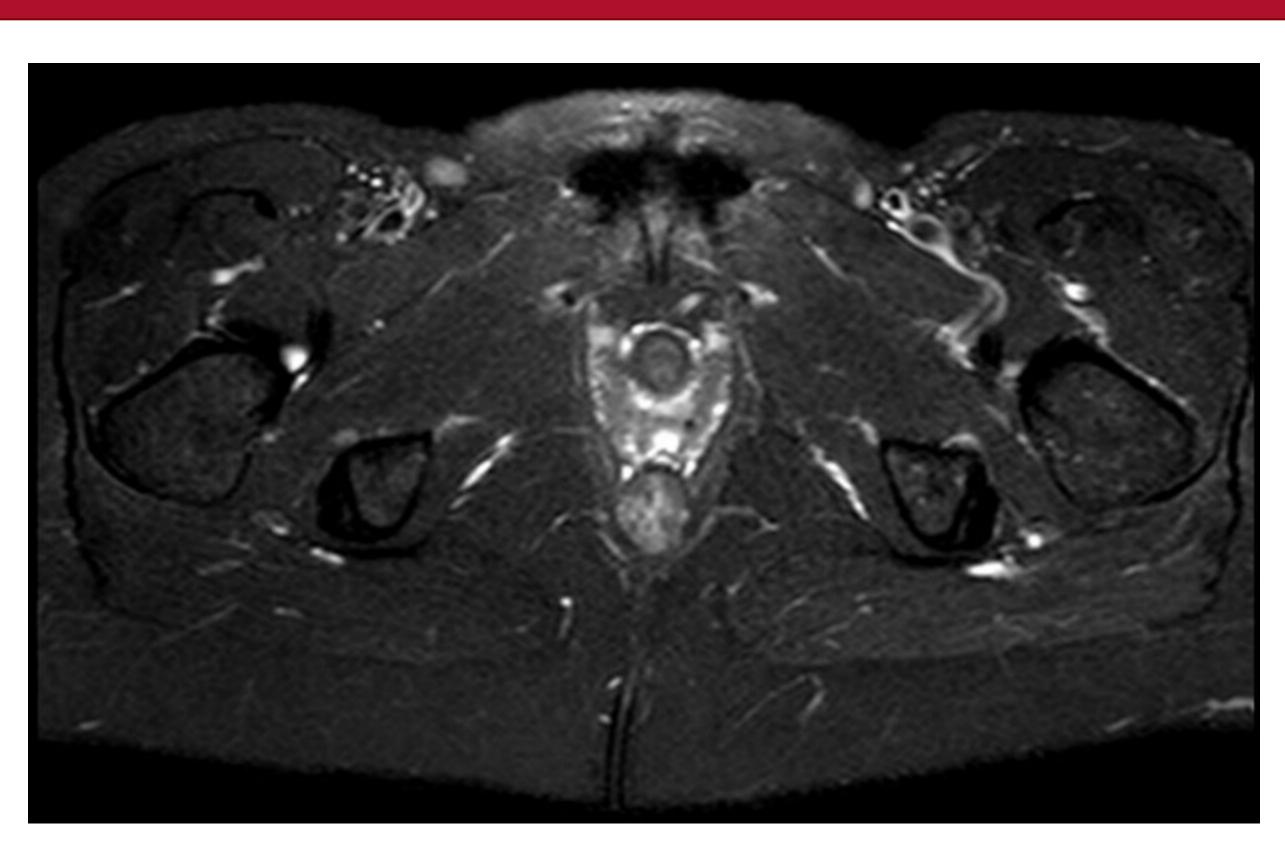


Figure 1: MRI Fistulogram The pouch is thickened and there is fluid around it compatible with pouchitis. There is a 5 mm area of fluid either within the central portion of the vagina with no visualized fistula



Figure 2: CT Imaging on Arrival to Emergency Department Extensive thickening with surrounding fluid of the ileoanal pouch compatible with pouchitis. No definite intra-abdominal free air. Air seen within the vaginal vault with no definitive enterovaginal fistula visualized



- fistula ⁵
- diverticulitis ^{6,7}
- CT scans

- chronic pouchitis

- PMC6384396.
- 32957717: PMCID: PMC7557829.

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Discussion

• Most common forms of pouch fistulae are pouchvaginal fistula, perianal fistula, and enterocutaneous

• Risk factors for fistula development include prolonged corticosteroid use, anemia, low albumin, hypoxemia, tension on the anastomosis, and ischemia ⁵

• There are prior case reports of ileo-salpingeal and colo-salpingeal fistulas due to Crohn's disease and

• Our patient had persistent feculent vaginal discharge with no definite etiology despite undergoing an MRI fistulogram, multiple gynecological examinations, and

• The pathology from the surgery was histologically consistent with UC rather than Crohn's disease

• We believe that the chronic inflammation from the pouchitis resulted in a de novo fistula between the fallopian tube and J-pouch

Conclusion

• J-pouch is an effective modality for refractory UC but carries risk of pouchitis and fistula development

• To our knowledge, this is the first case of a fistula between the J-pouch and fallopian tube attributed to

• There is utility of surgical exploration in a patient with clinical symptoms of a fistula with negative imaging, especially in those with prior surgical interventions

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