

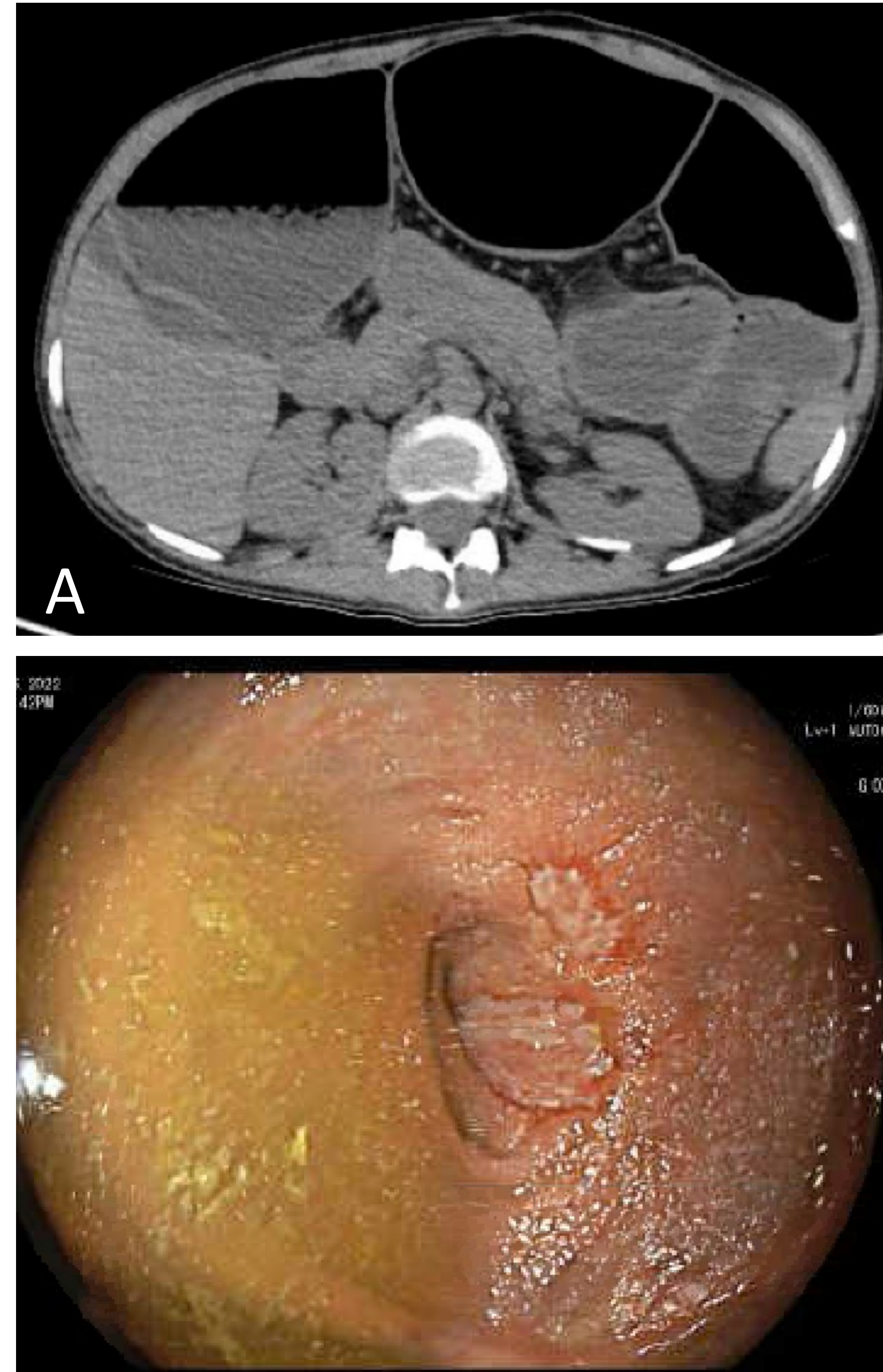
## Introduction

- Hirschsprung's Disease (HD) is exceedingly rare and represents a failure of ganglion cell migration to the gut.
- Longitudinal studies examining long-term outcomes of surgically treated HD are extremely limited.
- We discuss a patient who underwent surgical treatment for HD as an infant and presented in adulthood with severe abdominal pain and weight loss.

## Case Presentation

- A 34-year-old female presented with severe abdominal pain and 15-pound weight loss over 1 month. She continued to pass gas; bowel movements were at baseline.
- Past medical history: HD that involved the entire colon diagnosed at 6 months which was treated with the Duhamel procedure at age 1.
- Her postoperative course was complicated by recurrent small bowel obstruction (SBO) requiring multiple surgeries for adhesiolysis.
- Physical exam revealed mild distention and tenderness in the periumbilical region.

## Figures



CT demonstrating areas of narrowing and marked dilation proximal to the anastomosis

Endoscopic view of the ileum demonstrating ulceration and stenosis at the anastomosis site

## Conclusion

- The curative treatment for HD is surgical resection.
- Limited studies on long-term outcomes of these patients have demonstrated that constipation or diarrhea are common, and obstructive symptoms or dyssynergia are rare.
- Potential reasons for the complications presented in this case include mechanical obstruction from strictures and possible residual aganglionosis from insufficient resection.
- Additionally, prolonged bowel dilation may lead to impaired motility, evacuation difficulties, chronic dilation, and ischemic changes.
- There is a need for longitudinal studies at dedicated colorectal centers to provide effective transition of care from childhood to adulthood.
- A formalized approach to the management of postoperative complications of HD in adulthood is needed, especially as these issues closely relate to functional status and quality of life.

Imaging: CT showed marked small bowel dilation proximal to the anastomosis, multiple areas of focal narrowing, and significant stool burden (Figure A).

Studies: Manometry revealed impaired recto-anal inhibitory reflex possibly due to residual HD and Type 1 dyssynergic defecation.

## Hospital Course

Endoscopy: nonobstructive ileal stenosis proximal to the anastomosis and ileal ulcerations with biopsies showing acute and chronic inflammation with cryptitis (Figure B).

### Interventions:

- 1) Empiric treatment for small intestinal bacterial overgrowth and Hirschsprung-associated enterocolitis were initiated without improvement
- 2) Tried on mesalamine with no benefit.
- 3) Started on prucalopride with some improvement of her abdominal pain.