

Introduction

- Chronic intestinal pseudo-obstruction (CIPO) is a rare motility disorder characterized by impaired coordination of propulsive motility in the gastrointestinal tract in the absence of a mechanical obstruction.
- CIPO arises from a variety of primary and secondary etiologies, including connective tissue disorders, metabolic disease, paraneoplastic syndromes, inflammatory disorders, and neurologic disorders.
- Lack of a unified set of diagnostic criteria may contribute to CIPO going underdiagnosed or being mistaken for another functional GI disorder until symptoms have progressed.
- We present a case of CIPO secondary to dyssynergia of the pelvic floor muscles.

Case Description

- 64 YOM with past medical history notable for hypertension, atrial tachycardia, and heavy alcohol use was referred for further GI workup by his PCP for a 5-month history of worsening constipation following a viral infection.
- Prior to the viral illness, the patient endorsed regular bowel movements 2-3 times per week. He now describes one Bristol 4 or 7 bowel movement per month, associated with significant straining, and refractory to Dulcolax and Colace.
- Initial workup included a normal extended electrolyte panel, normal TSH, and negative Celiac disease serologies.
- CT abdomen and pelvis demonstrated extensive dilation of the proximal colon with compression of descending and sigmoid colon and small bowel fecalization. Representative coronal image is shown in Figure 1.
- Colonoscopy showed no evidence of obstruction.
- Anorectal manometry (ARM) findings included slightly elevated resting pressure, decreased sensation, and paradoxical contraction with Valsalva, consistent with pelvic floor dyssynergia.
- Biofeedback therapy was recommended.

Imaging

Figure 1: CT abdomen/pelvis showing dilation of proximal colon, compression of descending and sigmoid colon, and small bowel fecalization



Table 1: Further workup with ARM and balloon catheterization

	Patient Value	Cutoff Value
Rectal Capacity	280mL	300 mL
Resting Pressure	74.94 mmHg	>40 mmHg
Balloon Catheter Expulsion	Delayed >2.5min	2 min

Discussion

- CIPO poses a diagnostic challenge due to the broad range of etiologies, insidious symptom onset, and lack of clear diagnostic guidelines.
- Secondary CIPO is more common in the adult population, and diagnosis may be delayed or missed due to the wide range of potential underlying causes and the need for a thorough workup to rule out other, more common functional GI diseases.
- Evaluating for secondary causes of CIPO is an important diagnostic step, requiring integration of comprehensive history and physical exam, endoscopic findings, imaging, manometry, and immunologic workup.
- As evidenced in this case, pelvic floor dyssynergia – already a relatively rare finding in men – may lead to CIPO.
- General approach to diagnosing CIPO should include:
 - Chronic, progressive symptoms of obstruction (constipation, abdominal pain, distension) in the absence of mechanical source
 - Identification of the underlying cause of the dysfunction
 - Identification of the extent and complications of the disease to optimize management
- Disease management remains largely supportive and focuses on maintaining nutritional status while treating underlying causes of secondary CIPO.

References

- Antonucci A. et al. 2008. Chronic intestinal pseudo obstruction. *World Journal of Gastroenterology*, 14(19): 2953-2961.
- Downes T.J., Cheruvu, M.S., Karunaratne T.B., De Giorgio R., & Farmer A.D. 2018. Pathophysiology, diagnosis, and management of chronic intestinal pseudo obstruction. *J Clin Gastroenterology*, 52: 477-489.
- Patcharatrakul T. & Rao S. 2018. Update on the pathophysiology and management of anorectal disorders. *Gut and Liver*, 12(4): 375-384.