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Partial Small Bowel Obstruction Secondary to Intestinal Stone (Enterolith): A Very Rare Case Report

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Introduction

Enterolithiasis is an uncommon pathological condition in which calculi or concretion formation occurs in the intestines and has a prevalence ranging from 0.3 to 10%.1The mortality rate for uncomplicated primary enterolithiasis is very low, but it rises to 3% in poorly conditioned patients with significant obstruction and a late diagnosis. Primary enteroliths arise in areas of intestinal stasis in the setting of diverticular disease, surgical enteroanastomosis, blind pouches and intestinal stenosis or strictures seen in the infectious or inflammatory bowel diseases Secondary enteroliths include gallbladder and renal stones that may migrate into the gastrointestinal tract as a result of fistula formation. Enteroliths can cause bowel obstruction haemorrhage, or perforation, but the vast majority are cleared asymptomatically. If nonoperative therapeutic management fails, surgical exploration is indicated.2. Treatment relies on timely recognition of the disease and endoscopic or surgical intervention. With .advents in new technology, improved outcome is expected for patients with enterolithiasis 3 ,Presentation is often nonspecific, but typically includes "tumbling" abdominal pain, nausea and vomiting related to the bowel obstruction, and may potentially lead to the gastrointestinal bleeding and perforation. We present a case of primary enterolith in 7 year old boy resulting in symptoms of partial small bowel obstruction and highlight the rarity of condition

Case presentation

We present 7-year-old boy was previously healthy with no significant surgical or medical history, who visited our private clinic for workup of lower abdominal pain and vomiting. On examination he was vitally stable with RIF tenderness. A primary suspected diagnosis of appendicitis was made. An abdominal ultrasound (US) showed mild free fluid. Initial laboratory findings showed an elevated white blood cells (WBC). The decision was made to proceed with a laparoscopic appendectomy, and the patient was prepared for surgery. Upon entry into the peritoneal cavity, the appendix looking mildly inflamed, appendectomy was done. Further inspection of small bowel for a second pathology revealed an intra-luminal

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mass at the the proximal jejunum with features of partial small bowel obstruction. The decision was made to convert to laparotomy (Figure 1). After the bowels were eviscerated from the wound, a large, hard, sliding mass was found (Figure 2). A longitudinal anti-mesenteric enterotomy was performed and the large stone (50*30 mm) was extracted (Figure 3). The enterotomy was closed transversely. The abdomen was irrigated and closed in layers in a standard fashion. The patient made good recovery and discharged 3 days after surgery with no showed the complications. Analysis of the biochemical composition of the intestinal stone presence of calcium oxalate stone (Figure 4)

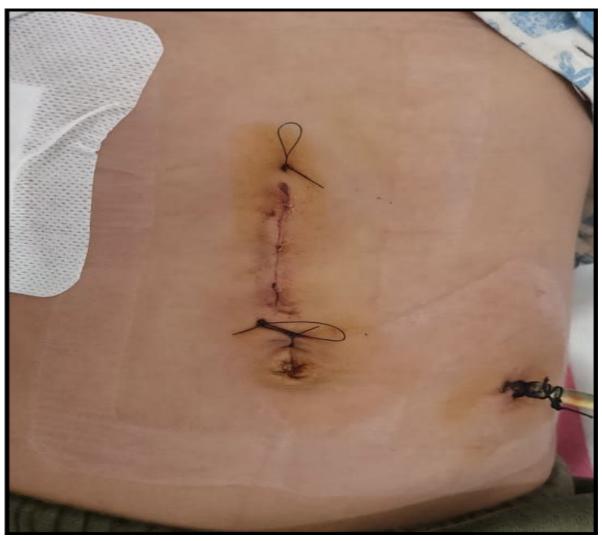


Figure 1: Upper mid-line laparotomy

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Figure 2: Hard Intra-luminal mass

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Figure 3: Intestinal stone 50*30 mm

Weight: 14.60 g Consistency: Solid	Size: Surface:	Multi Pieces Color: Soft Shape:	Brown Irregular
emical			
CARBONATE (CO3-2):	(+)	CYSTINE:	Negative
PHOSPHATE (PO4-3):	Negative	MAGNESIUM:	Negative
CALCIUM (Ca+2):	(++)	AMMONIA:	Negative
URIC ACID:	Negative	OXALATE (C2O4 -2) .:	(+)
nclusion : Claciu	m&oxalate S	<u>tone</u>	

Figure 4: Biochemical analysis showed calcium oxalate stone

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