Endoscopic Retrieval of Impacted Gallstone in the Rectum

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Gallstone ileus is an uncommon cause of a mechanical bowel obstruction (1 -3%)1, where a gallstone passes into the small bowel via cholecysto-enteric fistula, and impacts in the terminal ileum. Even more rarely, the stone might pass to large bowel where only few reported cases have diagnosed gallstones in the rectum.







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Abstract

Introduction: Gallstone ileus is an uncommon cause of a mechanical bowel obstruction (I -3%)I, where a gallstone passes into the small bowel via cholecysto-enteric fistula, and impacts in the terminal ileum. Even more rarely, the stone might pass to large bowel where only few reported cases have diagnosed gallstones in the rectum.

Presentation of Case: In our case, an 83 year old lady, known to have a history of 4cm gallbladder stone, was admitted for management of ileus that was thought to be due to hypokalemia; However, a gallstone in the rectum was missed on the abdominal X-ray. Patient was discharged only to be readmitted few days later with on-going obstructive symptoms and was found to have the gallstone impacted in the rectum on CT colonogram. The stone was successfully retrieved endoscopically.

Discussion: Although cases have been reported of spontaneous passage of rectal stones, in this case the large gallstone remained impacted in the rectum and caused mechanical obstruction. A successful catheter-aided extraction of gallstone in rectum under local anaesthesia has previously been reported. In our case, Flexible sigmoidoscopy was used to evacuate 4 cm gallstone successfully.

Conclusion: Gallstone ileus is rare but well-documented cause of bowel obstruction, and it is always paramount to look for radiological features of gallstone ileus. Gallstones impacted in the rectum are even more uncommon and can be managed by endoscopic retrieval.

Key Words

General Surgery; Gallstone; Rectum; Endoscopy; Gallstone Ileus; Flexible Sigmoidoscopy

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Introduction:

Gallstone ileus is an uncommon cause of a mechanical bowel obstruction $(1-3\%)^1$, where a gallstone passes into the small bowel via cholecystoenteric fistula, and impacts in the terminal ileum. Even more rarely, the stone might pass to large bowel, with only few reported cases of gallstones impacted in the rectum.

Presentation of Case:

In our case, an 83 year old lady, known to have a history of 4cm gallbladder stone, was admitted to hospital complaining of abdominal pain, nausea and vomiting. She was managed as a suspected paralytic ileus secondary to hypokalemia; However, a gallstone in the rectum was missed on the abdominal X-ray that also showed dilated bowel loops (*Figure 1*). After correcting the patient's potassium level her symptoms improved and she was discharged back to nursing home. However, a



Figure I

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few days later, the patient was re-referred by her GP, with the same symptoms. The patient was readmitted and again found to have severe hypokalemia with dilated bowel on an abdominal xray. The plain film on this admission did not show the gallstone in the rectum, as the x-ray missed the pelvis.

The initial clinical picture was again thought to be in -keeping with paralytic ileus/pseudo-obstruction secondary to hypokalaemia. A CT Colonography was done showing a gallstone present within the rectum (Figure 2), with pneumobilia (Figure 3). This gallstone was previously noted to be within the gallbladder on a CT examination done few months earlier (Figure 4).



Figure 4



Figure 2



Figure 5



Figure 3



Figure 6

The patient had a flexi-sigmoidoscopy with successful retrieval of the gallstone using a large snare. (Figure 5,6). Following this, her symptoms

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completely settled down, and she was discharged from hospital.

Discussion:

Few rare cases of spontaneous evacuation of gallstone from rectum have been documented, yet such an expectant management could be painful to the patient ². A successful catheter-aided extraction of gallstone in rectum under local anaesthesia has been reported ³. In our case, flexible sigmoidoscopy was used to evacuate the gallstone successfully despite it's large size (4 cm).

Conclusion:

Gallstone ileus is rare but well-documented cause of bowel obstruction; It is paramount to look for mechanical causes of bowel obstruction. Large, impacted rectal gallstones can be removed endoscopically, avoiding the need for an anaesthetic.

Highlights:

I- Gallstone ileus is rare but documented cause of bowel obstruction.

2- It is always paramount to look for obvious mechanical cause on X-ray.

3- Impacted gallstone in the rectum could possibly be an indication for flex-sigmoidoscopy.

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