A Case of Duodenal Obstruction from Pancreatitis-Induced Duodenal Wall Hematoma

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INTRODUCTION

- Spontaneous duodenal wall hematomas can be a complication pancreatitis²⁻⁶.
- Patients can present with symptoms of small bowel obstruction. initially be managed conservatively but worsening hematoma r invasive management.

HPI

- **@**48-year male with history of alcohol dependence and excessive non-steroidal anti-inflammatory drugs (NSAI use presented with abdominal pain, nausea, vomiting.
- The symptoms have been going on for a month. Two weeks prior to current presentation, a computed tomography (CT) scan showed pancreatic head strandi and serum lipase was 172.
- Outpatient conservative management was planned but patient presented with worsening obstructive gastroenterology (GI) symptoms requiring a nasogastri tube.
- The patient denied recent trauma or anticoagulant use

Examination

Temperature 99.5, heart rate 112 and moderate diffuse abdominal tenderness was noted, greatest in the epigastric area.

Work up

@Lipase: 185.

OCT abdomen: Large descending duodenal wall hematoma with partial proximal obstruction and pancreatitis in the pancreatic

• EGD: Collapsed 2nd portion of duodenum, without any mucos lesion.

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of	Management	
. They shou may require	uld Symptoms worsened and CT angined so evacuation was planned.	ography showe
	Pre-evacuation, the gastroduodena artery were embolized to prevent full followed by a laparoscopic drainage	al and inferior point of a second sec
IDs)	Outcome	
	Post-procedure, the patient's obstr improved oral intake, and he was d	uctive symptor ischarged on r
ding	FIGURE 1: Duodenal hematoma w stranding consistent with acute pa	rith peripano ncreatitis
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pancreaticoduodenal on of the hematoma

ms resolved with regular diet.

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FIGURE 2: Pathogenesis of *Duodenal Wall Hematoma*

Release of proteolytic enzymes from an inflamed pancreas causing vascular erosions in the small bowel²

DISCUSSION

- minimally invasive drainage.

REFERENCES

1. Ha TS, Chung JC. Delayed manifestation of Isolated Intramural Hematoma of the duodenum resulting from Blunt abdominal Trauma. J Trauma Inj. 2020;33(1):53-58. 2. Kumar R, Athwal PSS, Kumar M, Devi K, Kahlon S. Spontaneous Intramural Duodenal Hematoma: A Rare Complication of Pancreatitis. Cureus. 2020;12(6):e8491e8491

Intestinal Obstruction. Case Rep Surg. 2016;2016:5321081-5321081. College of Gastroenterology | ACG. 2020;115.

6. Khurana T, Shah A, Ali I, Islam R, Siddiqui AA. Intramural Duodenal Hematoma with Acute Pancreatitis in a Patient With an Overt Pancreatic Malignancy. ACG Case Reports Journal. 2014;1(4).





✤ Spontaneous duodenal hematomas may be a rare complication of pancreatitis²⁻⁶.

Anagement includes supportive care, but drainage of the hematoma may be required if hematoma is expanding with worsening obstructive symptoms.

A prophylactic arterial embolization may help drainage by stabilizing the bleeding and enable a

3. Ma JK, Ng KK, Poon RT, Fan ST. Pancreatic-induced Intramural Duodenal Haematoma. Asian Journal of Surgery. 2008;31(2):83-86. 4. Eurboonyanun C, Somsap K, Ruangwannasak S, Sripanaskul A. Spontaneous Intramural Duodenal Hematoma: Pancreatitis, Obstructive Jaundice, and Upper

5. Haque Z, Khan N, Udechukwu V. S2834 Spontaneous Intramural Duodenal Hematoma: A Rare Complication of Acute Pancreatitis. Official journal of the American