

Introduction

Petersen's space hernia is an internal hernia that can occur after Roux-en-Y gastrojejunostomy [1]. The intestinal loops herniate through a defect between the retroperitoneum, the transverse mesocolon and the small bowel limbs [1]. We present a case of recurrent pancreatitis in a patient with Roux-En-Y bypass found to have common channel hernia through a Petersen's space defect.

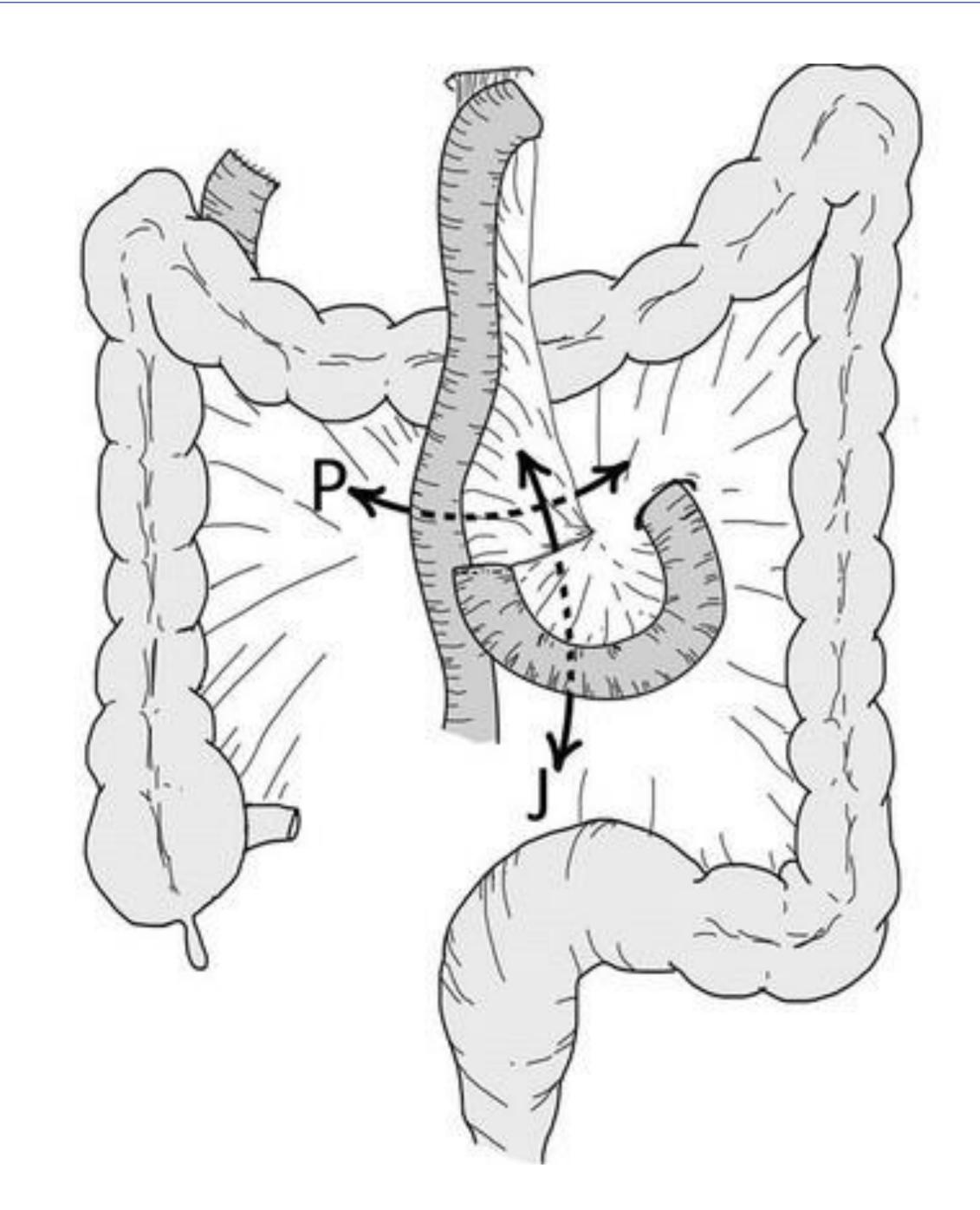


Figure 1: Diagram demonstrating Roux-en-Y bypass and the Petersen defect (P) as well as the mesenteric defect at the jejunojejunostomy (J) that can be seen in the antecolic route [2]

Contact

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Recurrent Pancreatitis Secondary to Common Channel Volvulus Through Petersen's Space Defect in a Patient with Roux-En-Y Bypass

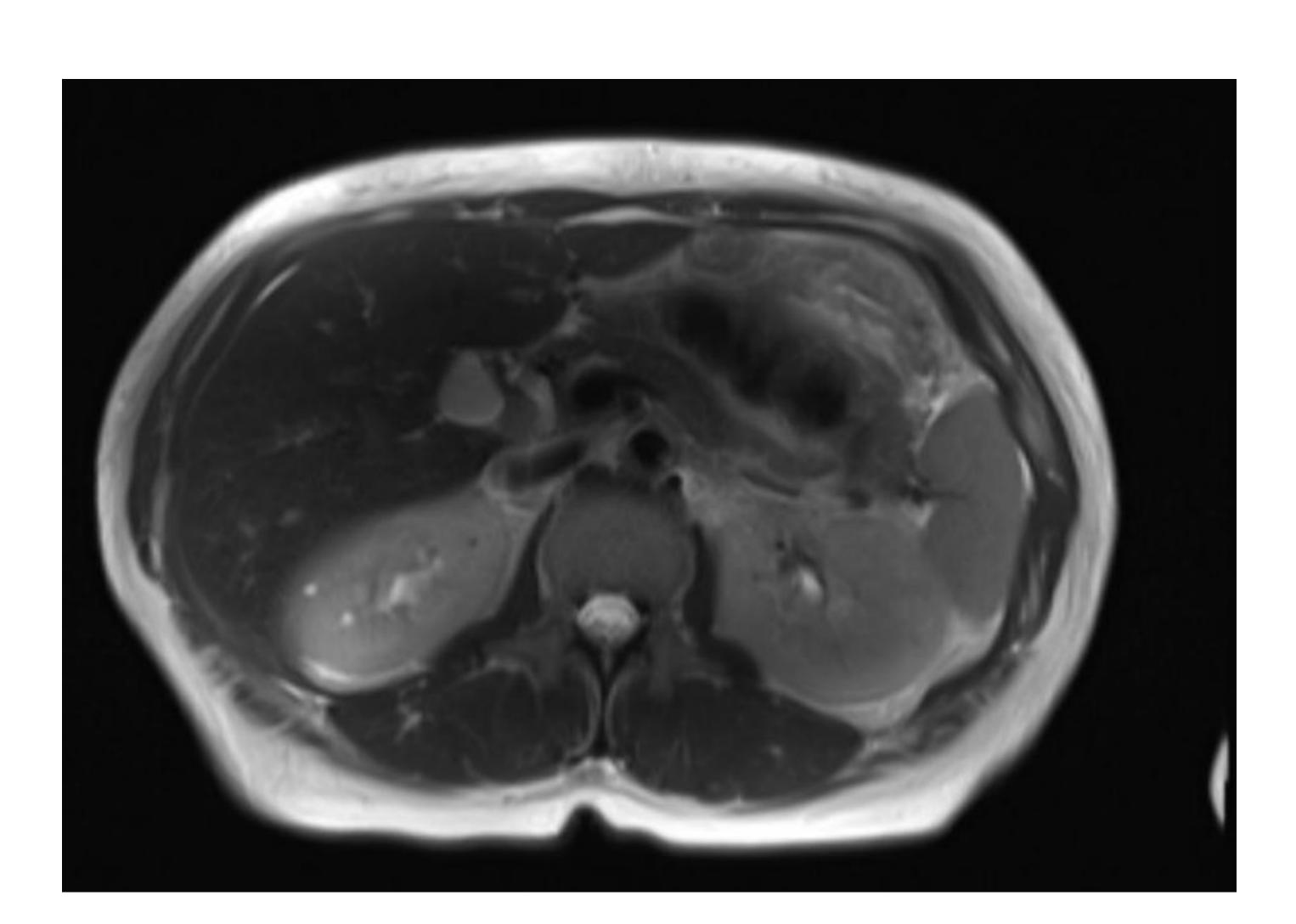
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Case Presentation

We present the case of a 34-year-old female with a history of Roux-en-Y surgery in 2018 and subsequent recurrent pancreatitis who presented to the emergency department with a chief complaint of severe epigastric and left lower quadrant abdominal pain associated with hematemesis. Patient reported 3 episodes of pancreatitis within 1 year previously. CT abdomen and pelvis showed mildly dilated common bile duct and intrahepatic biliary dilatation with no evidence of pancreatitis. Significant lab work included elevated lipase at 184 U/L. Patient was admitted to the medical service. Gallbladder ultrasound revealed no evidence of cholelithiasis, a prominent CBD of 9 mm and redemonstrated mild intrahepatic biliary dilatation. MRCP revealed a mesenteric swirl in the mid abdomen which was suspicious for an internal hernia in the setting of antecolic Roux-en-Y gastric bypass. It also showed focally dilated intrahepatic with underlying segmental atrophy. General surgery consultation was sought, with eventual plans for diagnostic laparoscopy after ruling out marginal ulcer via EGD. An EGD was performed which did not show evidence of marginal ulcer. Patient then underwent diagnostic laparoscopy which revealed a 360degree volvulus of the common channel through a Petersen's space defect; this was carefully reduced, and the Petersen's space defect was closed. Patient also underwent laparoscopic cholecystectomy. Patient did not have any further episodes of pancreatitis after surgery.

References

This case demonstrates recurrent pancreatitis in a patient with a history of Roux-En-Y bypass found to have a common channel volvulus through a Petersen's space defect. It is our understanding that the volvulus likely caused compression of the pancreaticobiliary system, thus causing recurrent pancreatitis. Reduction of the volvulus and closing of the Petersen's defect resulted in complete resolution of recurrent pancreatitis in the patient.



1. Faria, G; Preto, J; Oliveira, M; Pimenta, T; Baptista M; Costa-Maia, J. "Petersen's space hernia: A rare but expanding diagnosis" Int J Surg Case Rep. 2011; 2(6): 141–143 2. Baba A; Yamazoe S; Dogru M; Okuyama Y; Mogami T; Kobashi Y; Nozawa Y; Aoyagi Y; Fujisaki H; Ogura M; Matsui J. "Petersen hernia

after open gastrectomy with Roux-en-Y reconstruction: a report of two cases and literature review" Springerplus. 2015 Dec 2;4:753





Discussion

Figure 2: MRI showing Mesenteric swirl suspicious for internal hernia in the setting of antecolic Roux-en-Y gastric bypass. Surgical consultation recommended.