

Introduction

Acute pancreatitis (AP) is one of the most common gastroenterological causes of hospital admissions. The mortality rate of AP is around 10% despite medical advancements. Around 4-17% of cases of acute pancreatitis are complicated by the formation of pseudoaneurysms. The most commonly involved arteries are splenic artery (60-65%), gastroduodenal (20-25%), pancreaticoduodenal (10-15%), hepatic (5-10%) and left gastric arteries (2-5%). We present a case of superior mesenteric artery (SMA) pseudoaneurysm secondary to acute severe pancreatitis.



Figure 1: IR coil embolization of the middle colic branch <u>of the SMA</u>

An Unusual Location of Pseudoaneurysm in the Setting of Acute Severe Pancreatitis Romy Chamoun MD¹, Rachael Schneider DO¹, Roy Taoutel MD¹, Bryan Stone DO²

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Case Description

- A 33-year-old male patient with a past medical history of alcohol abuse presented to the hospital for abdominal pain after an alcohol binge.
- He was found to have significant acute kidney injury, metabolic acidosis, and leukocytosis to 24 K/uL.
- CT showed acute pancreatitis and a large peripancreatic collection consistent with hemorrhage with posterolateral extension into the left iliopsoas space.
- He was found to have staphylococcus aureus bacteremia thus he was initially treated with fluid resuscitation and cefazolin.
- Several days into the admission he had an episode of hemodynamic instability with a CT showing a 7 mm pseudoaneurysm seen within the collection with active contrast extravasation.
- His hemoglobin dropped 2g during this episode requiring pRBC transfusion.
- He underwent IR coil embolization of the middle colic branch of the SMA.
- During a subsequent admission, he had worsening abdominal pain and distension with radiographic evidence of enlarging collections so a drain was placed into the peripancreatic collection by IR with improvement in symptoms.

- cases.
- arterial bleeding.
- glue is now first line.
- high mortality rate.

Discussion

Pseudoaneurysm formation is an uncommon but life-threatening complication of pancreatitis. Pancreatic enzymes released in the setting of pancreatic inflammation leak into vessel walls causing destruction. • The majority develop in the splenic artery given the proximity to the pancreas. • Those in the SMA account for just 5% of CT angiography is the best diagnostic modality for assessing pseudoaneurysm Treatment in the past was primarily surgical but with endovascular advancements, embolization with coils or However, many patients may still require surgery if embolization fails or if hemodynamically unstable. Despite the rarity of pseudoaneurysm formation, it is important to have knowledge of the appropriate diagnostic workup and treatment given the potentially