Acute Pancreatitis Complicated by a Splenic Vein Non-Occlusive Thrombus

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Received date: July 12, 2018; Accepted date: July 27, 2018; Published date: August 03, 2018

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Abstract

Acute pancreatitis (AP) is an acute inflammatory process of the pancreas that presents with severe epigastric pain and tenderness which can lead to splenic vein thrombosis (SVT). Affected patients can develop gastric varices as a result of associated portal hypertension which may produce a left-sided portal hypertension with gastric varices in the absence of esophageal varices. In this case study; we present a patient who developed a non-occlusive thrombosis in the setting of active alcohol use.

Keywords: Acute pancreatitis, Splenic thrombosis, Portal vein thrombosis, Anticoagulation; Recanalisation

Introduction

Acute pancreatitis is one of the most common reasons for hospital admissions It accounts for \$2.5 billion of health care costs annually and 275,000 admissions per year [1]. incidence of vascular complications in AP is low, however, it is mainly seen in severe AP such as those with pancreatic necrosis and peripancreatic collections [1]. Venous complications generally involve the splenic vein and less commonly the portal or superior mesenteric vein [2]. AP accounts for 60% of SVT diagnosis [3].

Of those patients who have developed a history of AP, they are immediately at 20% risk of developing SVT [3]. other etiologies of SVT include malignancies, cirrhosis, pancreatic pseudocysts, and peptic ulcer disease. listed can cause and damage to the splenic vein wall mak] Figure 1: Underlying gallbladder sludge is

Figure 2 Severe acute pancreatitis, with a peripancreatic collection traversing Gerota's fascia and communicating with a perinephric collection measuring $62 \times 40 \times 32$ cm

patient was also noted to have decompensated cirrhosis with coagulopathy during her second admission so she was not started on anticoagulation for non-occlusive splenic vein thrombosis Subsequently, a stable splenic vein thrombosis was seen two weeks on a repeat CECT scan. was however, a new of a splenic artery aneurysm which was embolized by interventional radiology.

Discussion

Splenic vein thrombosis is a rare complication of acute pancreatitis; however; early diagnosis is crucial to the management course [5]. Retrospective studies have demonstrated that CECT is useful to identify pancreatic necrosis and of those diagnosed, 53% of the patients are found to have SVT [6,7]. far, it has been reported that patients with and compression by a peripancreatic collection or pancreatic necrosis should have imaging if the patient starts to deteriorate [8]. will allow management change by diagnosing underlying hemorrhage which may have been missed due to severe pancreatitis patients will need to have multiple transfusion and embolization to be stabilized with close monitoring in the intensive care and intermediate level of care [9, 10].

incidence of vascular complications is commonly seen with a necrotic pancreatitis. However, even acute pancreatitis has shown to cause thrombosis likely due to the peripancreatic

Splenic vein thrombosis can increase the venous pressure giving rise to portal hypertension which manifests as further complication such as variceal bleeding [11]. imposes a challenge in managing patients with portal vein thrombosis and weather to anti-coagulate them or not depends on the risk of gastrointestinal bleeding gastrointestinal bleeding evidenced by drop in hemoglobin and endoscopy patient was ultimately deemed high risk and not started on anticoagulation given the bleeding and the history of hepatic cirrhosis

References

- 1. Forsmark CE, Vege SS, Wilcox CM (2017) NEJM: Acute pancreatitis. N Engl J Med 375: 1972-1981.
- 2 Park WS, Kim HI, Jeon BJ, Kim SH, Lee SO (2012) Should anticoagulants be administered for portal vein thrombosis associated with acute pancreatitis? World JG astroenterol 18 6168 6171.
- 3 Heider TR, Azeem S, Galanko JA, Behrns KE (2004) natural history of pancreatitis-induced splenic vein thrombosis. Ann Surg 239, 876-880
- 4. Ahmed M, Aziz MU, Mansoor MA, Anwar S (2016) Vascular complications in cases of acute pancreatitis-CT scan based study. J Pak Med Assoc 66: 977-989.
- 5. Hernani BL, Silva PC, Nishio RT (2015) Acute pancreatitis complicated with ated