What is the diagnosis?

i. Ischemic Gastritis

ii. Necrosis of the Small Intestine

iii. Perforated Gastric Ulcer

iv. Gastric Volvulus

Pneumatosis intestinalis (PI) describes the presence of gas-filled cysts within the wall submucosa and subserosa of the bowel. Many theories on the etiology of this condition exist, and potential sources of gas include: 1. intraluminal gas entering the mucosa secondary to increased intraluminal pressure; 2. bacterial production of H2 gas, where the tension of H2 is greater than the tension of nitrogen in the blood, causing diffusion of gas from the gut lumen towards submucosal vessels; 3. pulmonary gas, where gas from ruptured alveoli tract along vasculature in the mediastinum caudally to the retroperitoneum and bowel mesentery. The gas can embolize from the bowel wall through the mesenteric veins to the portal venous system and the non-dependent parts of the liver. Thus, benign etiologies exist for pneumatosis and studies suggest that half of all patients with PI were successfully managed non-operatively. Findings of abdominal distension on physical exam and dilated loops of bowel on CT, lactic academia, and peritonitis are uncommon in patients managed non-operatively. Although the presence of portal venous gas should heighten concern, it should not always mandate surgery, but be viewed in the context of the entire condition of the patient. Our patient’s CT was read as PI along the greater curvature and antrum with 15mm thickened gastric wall and air within the portal venous system. He had gross evidence of hemorrhagic gastritis without necrosis or perforation during the operation (diagnostic laparoscopy and upper endoscopy with gastric biopsy). Patient was kept NPO, on IV antibiotics, TPN with nasogastric decompression. Our plan was to rescan him in a week if he continues to progress well. However, he left against medical advice on the fifth post-operative day. Pathology
from the upper endoscopy with biopsy confirmed the findings of ischemic gastritis. He returned for a follow-up seven months later in the outpatient clinic, and a repeat CT scan demonstrated gastric distension, without gastric wall thickening or pneumatoses. He has been lost to follow-up after this repeat CT. His likely cause of ischemic gastritis was cocaine abuse.

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Conflict of interest
Author declares that there is no conflict of interest.

References

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