RUTGERS New Jersey Medical School

INTRODUCTION

- Endoscopic cholangiopancreatography retrograde (ERCP) is both a diagnostic and therapeutic procedure used for the management of biliary pathology.
- Rates of even the most common complications, including biliary perforation and pancreatitis, are low, however other complications can be life-threatening and must be kept in mind when evaluation a patient post-ERCP
- Here, we describe a case of post-ERCP subcapsular hepatic hematoma (SHH).

CASE DESCRIPTION/METHODS

- A 39-year-old man with a history of hypertension, type II diabetes mellitus and alcohol use disorder complicated by chronic pancreatitis with multiple episodes of common bile duct (CBD) stricture status post multiple ERCPs presents with epigastric pain and right upper quadrant pain.
- He was admitted two weeks prior for epigastric pain, where he was found to have CBD stricture, and underwent ERCP with stent placement. Pain did not completely resolve after his last hospitalization and escalated to a 10/10.
- On arrival, he was afebrile with stable vitals. Physical exam demonstrated epigastric and tenderness to palpation with voluntary guarding, but a soft abdomen without rebound tenderness. Labs significant for WBC count of 10.8 x 10⁹/L, alkaline phosphatase of 117 U/L, and hemoglobin 11.7 g/dL.

Post-ERCP Subcapsular Hepatic Hematoma

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CASE DESCRIPTION/METHODS (cont.)

- Abdominal ultrasound showed a 7.3 x 3.9 cm area of mixed echogenicity in the right liver lobe.
- x 2.5 cm heterogeneous subcapsular liver collection
- 5.0 mg/dL.
- correct biliary stent placement.
- Antibiotics were re-started. LFTs and symptoms improved.
- He was discharged on a 14-day course of Levofloxacin and Metronidazole.



transverse (b) planes (arrow).

• Triple phase CT of the abdomen and pelvis showed a 9 x 6.5

• He was given Zosyn, and WBCs downtrended. On day 3, liver function tests (LFTs) rose: aspartate aminotransferase was 397 U/L, alanine aminotransferase was 206 U/L, alkaline phosphatase was 571 U/L, and total bilirubin was

Repeat CT showed expected hematoma resolution with



- ERCP.

Figure 1 Triple phase computed tomography scan of the abdomen and pelvis demonstrating a right-sided subcapsular hematoma in segment 6 of the liver in the coronal (a) and



DISCUSSION

SHH is a rare but known complication of ERCP.

Hematomas can expand, resulting in significant anemia and LFT elevation, or become infected with resultant sepsis.

Patients with SHH must be carefully monitored in the post-ERCP setting.

• This patient exhibited an elevated WBC count with delayed elevation in LFTs, concerning for potential infection of the hematoma, yet without overt signs of infection, including lack of fever. He was managed with antibiotics without hematoma drainage, demonstrating the efficacy of conservative management for such a potentially deadly complication of