

Choledochal Cyst Mimicking the Gallbladder with a Surprising Twist

Sonia Samuel, DO¹, Umer Ejaz Malik, MD², Dominico Viterbo, MD, PhD²

¹Department of Internal Medicine. Albany Medical Center, Albany, NY

²Department of Gastroenterology & Hepatology. Albany Medical Center, Albany, NY

INTRODUCTION

Choledochal cysts are congenital rarities and often a pediatric diagnosis but 20% go undetected until adulthood. Etiology remains unclear but an obstructed common bile duct (CBD) has been identified as a pathogenic feature [1, 2]. We present a rare case of choledochal cyst initially mimicking the gallbladder in an elderly female.

CASE REPORT

A 90-year-old female presented to the hospital with abdominal pain and unintentional weight loss. Past medical history was notable for breast cancer and colorectal cancer status post resection. Liver function tests, bilirubin and pancreatic markers were normal with mild elevation of alkaline phosphatase. CT abdomen and pelvis revealed a 2.8 cm dilated CBD, choledocholithiasis, pancreatic duct dilation and absent gallbladder. Patient however denied undergoing a cholecystectomy. Given the discrepancy of imaging and history, an abdominal ultrasound was performed demonstrating large gallstones in the gallbladder with normal CBD size. Patient was subsequently scheduled for an endoscopic ultrasound (EUS) and an endoscopic retrograde cholangiopancreatography (ERCP) for further evaluation. EUS revealed a 28x26 mm mass in the ampulla. The distal CBD measured 7 mm with a 35 mm proximal CBD consistent with a choledochal cyst full of large stones. Pancreatic duct measured up to 8 mm. Gallbladder was confirmed to be surgically absent. ERCP revealed an infiltrative 3-4 cm mass at the major papilla. Pancreatic and biliary sphincterotomies were performed and metal stents were placed in the ventral pancreatic duct and CBD.

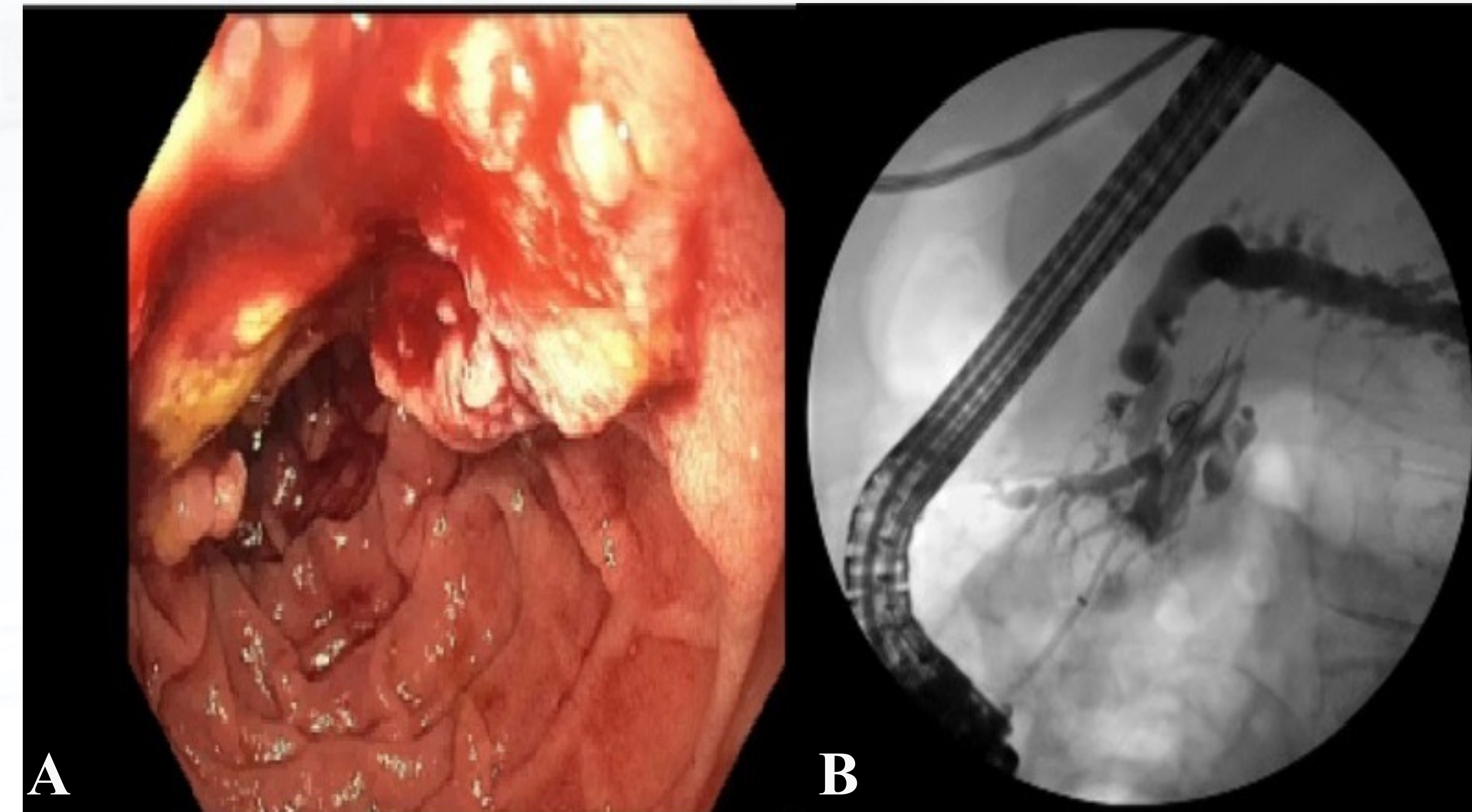


Figure 1A: EGD shows 3-4 mm mass at the major papilla

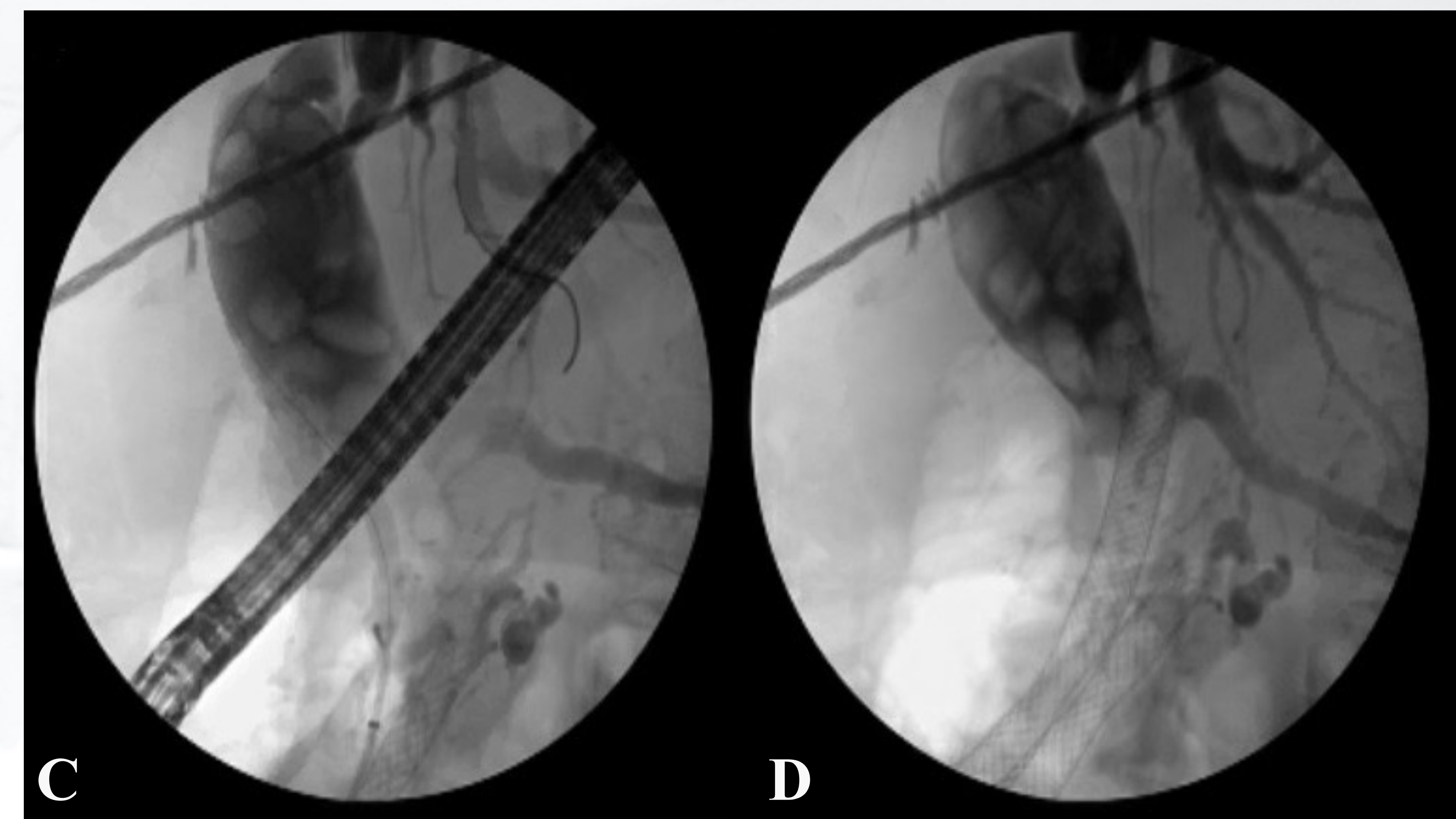


Figure 1B-D: ERCP demonstrates filling of contrast in the choledochal cyst

CASE REPORT (Continued)

Biopsies taken revealed pancreatic adenocarcinoma. Hepatobiliary surgery was consulted who considered a Whipple procedure (pancreaticoduodenectomy) given good quality of life. This was performed in the following month. Pathology findings confirmed pancreatic adenocarcinoma with metastasis to one of twelve lymph nodes. Patient was arranged to follow up with outpatient oncology.

DISCUSSION

Choledochal cysts can be an elusive diagnosis in elderly adults given its rarity, prevalence in children, and common presentation of vague abdominal pain. Choledochal cyst should be part of the differential diagnosis regardless of patient age especially in cases of accompanying weight loss due to its increased risk of biliary malignancy. In our case, the patient was found to have choledochal cyst misrepresented as the gallbladder and incidentally found to have pancreatic adenocarcinoma. Additionally, patients may be unreliable historians leading to misinterpretation of imaging results. Further investigation is therefore warranted in these perplexing cases for an accurate diagnosis and appropriate management.

REFERENCES

- [1] Sollano JD, Romano R, Ibañez-Guzman L, Antoinette M, Ocampo SQd, Policarpio AA, et al., editors. Clinical Practice Guidelines on the Diagnosis and Treatment of Gastroesophageal Reflux Disease (GERD) 2015.
- [2] Soreide K, Korner H, Havnen J, Soreide JA. Bile duct cysts in adults. *Br J Surg.* 2004;91(12):1538-48.



KNOWN FOR
OUR EXPERTISE.
CHOSEN FOR
OUR CARE.