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Vivek Rajdev 1*, Nandakumar BM 2, Rakesh Gupta 1, Pankaj Chandel 1 and Jagdish Gupta 1

¹Department of General Surgery, Indira Gandhi Medical College and Hospital, India

Keywords: Chronic calci c pancreatitis; Biliary peritonitis; any calculus. e common bile duct was mildly dilated 8 mm with a perfo Spontaneous CBD perforation; Rare cause of peritonitis; Isolated CBD perforation

Introduction

Spontaneous perforation of common bile duct (CBD) is an infrequent cause of acute generalised peritonitis [1]. Other common causes being peptic ulcer disease complicated by duodenal or gastric perforation and unusually by gall bladder perforation. It is almost always diagnosed intra operatively and it is a rare entity in adults. e common causes are in creased intraductal pressure due to stone, tumour, stricture and erosion of a biliary diverticulum. e incidence of common bile duct obstruction among patients with chronic pancreatitis range from 3% to 23% [2]. Till date only three cases of spontaneous common bile duct perforation with peritonitis as a complication in chronic pancreatitis has been reported [3]. We report an interesting case of spontaneous common bile duct perfora tion in a middle aged male with chronic calci c pancreatitis and review literature of such cases.

Case Report

A 35 year old male patient was referred from a private hospital as a nonsettling case of acute on chronic pancreatitis being managed conservatively for the last 4 days. Patient had complaints of generalised pain abdomen with multiple episodes of vomiting.

On examination he was sick looking and dehydrated with tachycardia, tachypnoea and was normotensive. On examination, the abdomen was distended and tender with presence of free uid and absent bowel sounds. Initial investigations revealed haemoglobin 15.1 gm/dL, white cell count 27,100/cumm with 94% segmented neutrophils, serum bilirubin was 1.84 mg/dL, transaminases and alkaline phosphatase (ALP) were normal. Se

rum Amylase and Lipase were 321 U/L and 393 U/L respectively: Ultra sound abdomen showed moderate ascites with multiple pancreatic calgandhi Medical College and Hospital, India, Tel: +919917153044; E-mail: cations. Chest X-ray was normal and abdominal X-ray showed evidence of kerajdev.43@gmail.com

ileus with calci cation in the region of pancreas (Figure 1, yellow arrow) (Rajdev V, Nandakumar BM, Gupta R, Chandel P, Gupta J (2022) with no evidence of air under diaphragm. Contrast enhanced Computation: A Rare Cause of Biliary Peritonitis in a Tomography (CECT) of abdomen showed features of acute exacerbation WLHQW RI & KURQLF & DOFL & F 3 DQFUHDWLWLV

with chronic calci c pancreatitis with multiple intraluminal calculi and Received: 21-February-2022, Manuscript No. JGDS-22-55029; Editor assigned: normal common bile duct. Diagnostic paracentesis showed bilious uid 23-February-2022, PreQC No. JGDS-22-55029(PQ); Reviewed: 09-March-2022, QC No. JGDS-22-55029; Revised: 14-March-2022, Manuscript No. JGDS-22-With the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the provisional diagnosis of biliary peritonitis, patient was taken upon the p

for explorative laboratory. Upon exploration, 1.5 litres of bilious peritone oppyright: © 2022 Rajdev V, et al. This is an open-access article distributed under uid was aspirated, omentum was studded with calci cations. e duode the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and num and stomach were normal. Gallbladder was intact and didn't containing are credited.

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²Department of General Surgery, MS Ramaiah Medical College, India

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6th post-operative day.

onstrating tracer in peritoneum is diagnostic but it is rarely done due to non-availability and lack of suspicion. ERCP with stenting across perfora tion can be done if perforation is diagnosed preoperatively. Reports of two cases managed with ERCP are available [7]. Spontaneous CBD perforation is almost always diagnosed intraoperatively and is usually managed with cholecystectomy with CBD exploration with primary repair or repair over T-tube [1]. In our case, primary repair of CBD was done a er con rming distal patency with post-operative MRCP. Biliary-enteric anastomosis is usually unwarranted in the emergency setting with grossly in amed tis sues.

Conclusion

Spontaneous bile duct perforation leading to biliary peritonitis is an un common diagnosis in the setting of chronic pancreatitis, but this di-eren tial should be sought when a case of suspected acute on chronic pancre atitis has di use peritonitis with bile in a diagnostic paracentesis. MRCP and biliary scintigraphy aid in preoperative diagnosis. Early diagnosis and management is must owing to its high mortality and morbidity.

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Perforation of the Bile Duct in a Toddler: e Role of Endoscopic Pediatr Gastroenterol Nutr 43(5):695-697.

Figure 2: CBD perforation of size 5 x 5 mm (white arrow)

Discussion

rst description by Freeland in 1882 only 90 cases have been reported in complications of chronic pancreatitis. World J Surg 27:1258-1270. infancy and 97 cases in adults [4]. Pathogenesis of spontaneous CBD perfo Kumar A, Kataria R, Chattopadhyay TK, Karak PK, Tandon RK ration is not clearly understood. Proposed mechanisms are increased intra (1992) Biliary peritonitis secondary to perforation of common bile ductal pressure due to stone, stricture and tumour and weak CBD wall due duct: An unusual presentation of chronic calci c pancreatitis. Post to pancreatic juice re ux, Anomalous Pancreaticobiliary Junction (APBJ), choledochal cyst and connective tissue disorders. Complications of chronic pancreatitis are pseudocyst (25%), CBD obstruction (3%-23%), duodenal Kang Sung-Bum, Han Ho-Seong, Seog Ki Min, Kook Lee Hyeon obstruction (0.5%-13%), pancreatic stula and malignancy [2]. Chronic pancreatitis presenting as biliary peritonitis secondary to CBD perforation to our knowledge has only been reported three times and all three were Shenoy V, Jawale S (2001) Anomalous pancreaticobiliary union in paediatric age group and had impacted pancreatic calculus at duodenal and chronic pancreatitis: Rare presentation with biliary peritonitis. papilla [3] and one patient had APBJ [5].

Presentation is usually insidious with di use abdominal pain, vomiting, jaundice and patient is usually septic with raised white cell counts. Bili rubin and transaminases are seldom deranged [6]. Absence of air under of a case. Surg Case Rep 2(1):103. diaphragm with moderate ascites with normal gall bladder on ultrasound with a diagnostic ascetic tap showing bile should raise a suspicion of bile Barrett HB, Narkewicz MR, Ronald SJ (2006) Spontaneous duct perforation. CECT abdomen is rarely informative of CBD perforation. Endoscopic Retrograde Cholangiopancreatography (ERCP) and MRCP to Retrograde Cholangiopancreatography in Diagnosis and erapy. J delineate biliary and pancreatic anatomy and Radio-nucleotide study dem