

Clinical Image

Symptomatic Type I Choledochal Cyst

Dhairya A. Lakhani^{1*}, Yousaf Hadi² and Melinda Smith¹

¹Department of Radiology, West Virginia University, USA

²Department of Internal Medicine, West Virginia University, USA

Clinical Image

A 32 year-old-female presented to the emergency department with right upper quadrant abdominal pain and nausea. She also reported several self-limiting episodes of severe post-prandial abdominal pain over a period of one-year. Physical examination was unremarkable. Initial laboratory investigations including white blood test counts were normal.

An ultrasound of the right upper quadrant (Figure 1) revealed a focal segmental dilation of common bile duct (**), the gall bladder (*) and remainder of biliary ducts (arrow) were otherwise normal. An MRCP (Figure 2) and 3D reconstruction image (Figure 3) confirmed the diagnosis of Todani type I Choledochal cyst.

The patient underwent extra hepatic bile duct resection, cholecystectomy and Roux-en-Y hepatic jejunostomy for management of symptomatic large Choledochal cyst. She subsequently had an uneventful recovery.

Choledochal cysts are very rare, with an incidence of 1 in 100,000 to 150,000 and has a strong female predilection with M:F ratio of 1:4 [1]. Type I Choledochal cysts are the most common variant. These cysts are typically benign, but can cause pain due to mass-effect, or can be associated with complications including Cholangitis, Cholelithiasis, or pancreatitis [2]. Management of Type I cysts includes excision of the bile duct along with cholecystectomy and restoration of the bilio-enteric continuity [2].

References

1. Medina Lira AK, Mayorga Soto AJ, Frigerio P. Choledochal cyst Todani IA case report. *Int J Surg Case Rep.* 2016;28:293-5.
2. Soares KC, Arnaoutakis DJ, Kamel I, Rastegar N, Anders R, Maithel S, et al. Choledochal cysts: presentation, clinical differentiation, and management. *J Am Coll Surg.* 2014;219:1167-80.

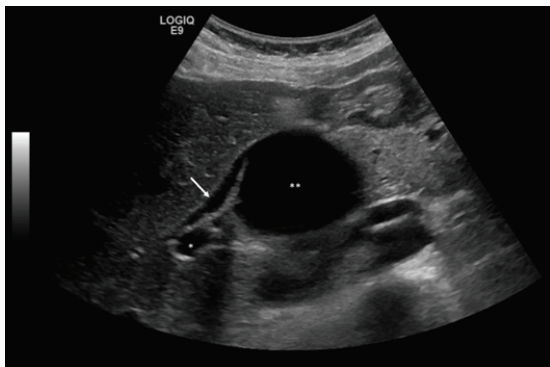


Figure 1: Right upper quadrant.

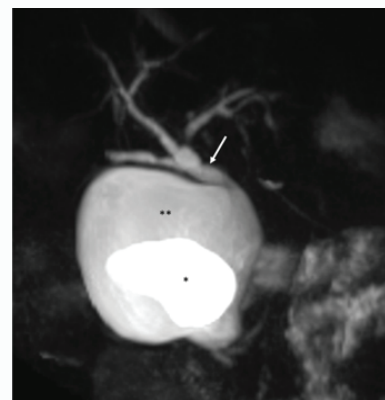


Figure 2: MRCP.

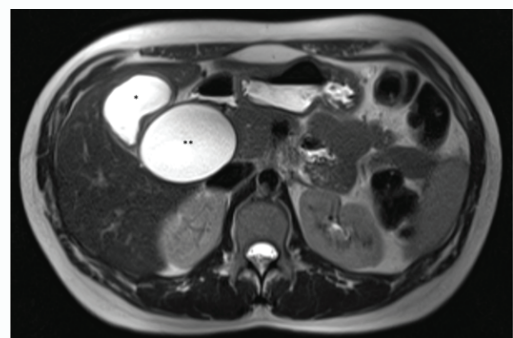


Figure 3: Todani type I Choledochal cyst.

Citation: Lakhani DA, Hadi Y, Smith M. Symptomatic Type I Choledochal Cyst. *Clin Gastroenterol Int.* 2020; 2(2): 1016.

Copyright: © 2020 Dhairya A. Lakhani

Publisher Name: Medtext Publications LLC

Manuscript compiled: Sep 24th, 2020

***Corresponding author:** Dhairya A. Lakhani, Department of Radiology, West Virginia University, Medical Center Drive, Morgantown, WV 26506, USA, E-mail: Dhairya.Lakhani@hsc.wvu.edu