Introduction

The choledochal cyst is defined as the congenital or combined dilatation of the extrahepatic biliary tree. It is observed in children and adults, predominantly in women. His previous approach was to perform an anastomosis between the cyst and the intestine, but a complete resection of the cyst should be performed in order to reduce the risk of malignancy and development of complications. We present the case of an 18-year-old man with recurrent abdominal pain secondary to this pathology, who underwent a surgical resection with primary anastomosis. He had a satisfactory postoperative with antibiotic treatment. The choledochal cyst as an uncommon pathology should always be considered in the differential diagnosis of those young patients with recurrent abdominal pain.

Clinical case

An 18-year-old man who frequently went to the general medical service with generalized abdominal pain, which was treated with medication without results. The abdominal ultrasound evidenced according to the Todani classification a choledochal cyst type I. The Magnetic Resonance Cholangiopancreatography (Figure 1) confirming the presence of cystic dilatation of the biliary tract.

The patient denied another symptomatology. No personal or family history. The physical exploration was insubstantial without any masses or megalias. The analytical laboratories did not show any alterations except for the elevation of the level of the DHL. The patient was scheduled to perform a choledochal cyst resection (Figure 2) and Billroth II reconstruction, previous preoperative and adequate preanesthetic evaluation.

Once was intervened, the evolution was satisfactorily, without complications, discharged on postoperative day 7. At the remote control three weeks after surgery, he presented persistent abdominal pain and unquantified fever. He was admitted to the ER and they decided to transfuse for anemia and to take liver function tests which are elevated. They left him in observation and abdominal computed tomography was realised which does not show changes. The patient progresses favorably with adequate hemodynamic stability, with total improvement and withdrawal of the T-tube, normal liver tests and subsequent return to normal life (Figure 3).
Discussion

Choledochal cyst is a disease of the biliary tract that can manifest throughout the biliary tree, frequently accompanying an abnormality of the pancreatic and biliary junction. In 1959 the first classification was made in three varieties, and then in 1977, Todani did so considering the intrahepatic compromise of the same, reclassifying them in 5 types.

In 1991, Serena Serradel, modified this classification as: Type I cysts or spinal dissection of the common bile duct, Type II or diverticulocrally. Type III or choledococele are intraduodenal or intrapancreatic, and are subdivided into variants according to their origin. Type IV, representing a multicystic variety subdivided into variant A, with intra and extrahepatic compromise, and variant B, confined to the extrahepatic biliary tract. Type V or Caroli syndrome, and Type VI, corresponds to cystic dilatation of the cystic duct (Figure 4).

Figure 4 Modified todani classification of choledochal cysts.

It is characterized by a rare congenital anomaly of the bile duct that may be associated with complications such as infections, obstructions and neoplasms. For that reason, a complete resection of the cyst should be made close to the diagnosis. The ultrasound usually makes the diagnosis and gives the information regarding the size and the characteristics of the involved ducts. Data is relevant for surgery. The Magnetic Resonance, on the other hand, has an important role in the assessment of biliary tract in adults and even in children, and has demonstrated its use in congenital pathologies of the bile duct.

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The diagnosis is confused with benign disease of the pancreas or biliary tract. Complications include cholangitis, jaundice, pancreatic, portal hypertension and cholangiocarcinoma. Previously, cystoenterostomy was approached for these cysts, but it is now recommended to perform a complete excision of the cyst to reduce the risk of malignancy and development of recurrent cholangitis or pancreatitis. After an appropriate digestive biliary bypass, intrahepatic dilatation tends to decrease in caliber in the postoperative period without complications.

Results

Our current experience allows us to show the correct evolution of the pre and postoperative of an 18 year old patient with a diagnosis of a rare pathology, obtaining favorable results that improve the clinical picture favorably.

Conclusion

A safe, open and conventional method of a complete resection of the choledochal cyst is demonstrated in a case with rare presentation pathology and obtaining very good results, without complications.

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None.

Conflict of interest

Author declares that there is no conflict of interest.

References


