Unusual Cause of Obstructive Jaundice: A Case Report
Z Matar

Citation

Abstract
Jaundice due to extra-hepatic biliary obstruction may be caused by many diseases some of which are quite rare. We are reporting a young boy who presented with obstructive jaundice caused by a hydatid cyst. He was operated upon. Pre- and postoperative albendazole therapy was given and follow-up showed complete resolution of jaundice clinically and biochemically.

INTRODUCTION
The diagnosis of obstructive jaundice remains difficult yet vital since operative decompression may relieve extra-hepatic blockage but operation can only harm patients with intra-hepatic block, parenchymal cell inflammation or necrosis. The common conditions that cause extra-hepatic biliary obstruction and “surgical jaundice” include cholelithiasis, benign biliary strictures, peri-ampullary cancer, cholangiocarcinoma and primary sclerosing cholangitis. Compression of the common bile duct by a hydatid cyst leading to obstructive jaundice is seldom encountered in clinical practice.

CASE REPORT
A 19-year-old male was referred to our hospital with jaundice, clay-colored stools and itching of one month duration. He gave history of a similar attack two years ago which resolved spontaneously. On examination he was jaundiced, underweight and malnourished. The liver was palpable 4cm below the right costal margin. Laboratory investigations revealed obstructive jaundice. Serological test for echinococcosis was positive. Ultrasonography showed a mixed echogenic, smooth-walled cystic mass in the right lobe of liver with 1-3cm cysts at the edges of the mass, marked intra-hepatic biliary radicles dilatation and moderately enlarged liver. The common bile duct (CBD) could not be seen (Figure 1).

CT showed a 9.7x7.8cm smooth outlined cyst in the right lobe of the liver and 1-1.5cm cysts bordering the big cyst, pressing on the portal vein. Intra-hepatic biliary radicles were grossly dilated, the common hepatic duct was compressed and the common bile duct (CBD) collapsed (Figure 2).
These findings were confirmed by ERCP (Figure 3):

**Figure 4**  
Figure 4a: Removing the cyst

The area was drained and the abdomen closed in layers. The postoperative period was uneventful, and the patient was discharged on the 8th postoperative day with improving liver functions. Treatment with albendazole was given before operation and continued post-operatively.

**DISCUSSION**

“No one living is infallible in the differential diagnosis of obstructive jaundice” (Moynihan). In all cases of surgical jaundice, it is mandatory to determine pre-operatively the exact nature and the site of obstruction because an ill-chosen therapeutic approach can be dangerous. This is especially true in hydatid disease where adequate precautions have to be planned before and taken during surgery to avoid spillage of the cyst contents which may lead to severe complications.
Hydatid disease is a parasitic infestation caused by Echinococcus granulosus. It is an endemic problem in Turkey as well as in sheep-rearing regions of the world. Of all cysts in the liver, 50%-70% are caused by Echinococcus granulosus. Hydatid cysts may be asymptomatic, or may cause abdominal pain, jaundice, or a visible abdominal mass. Patients seek medical care when their cysts have reached large size destroying a large amount of liver parenchyma. As there is no reliable pharmacological intervention, the recommended and most effective treatment of hepatic hydatid cysts is surgery, the primary goal of which is resection of the cyst or de-roofing and evacuation of the cyst without spilling its contents.

Our patient was treated with albendazole 10mg/kg preoperatively and the treatment was continued for 2 months with monitoring of liver functions and blood count. Postoperative follow-up was uneventful.

SUMMARY

An unusual case of obstructive jaundice due to a hydatid cyst is presented. Surgical removal of the cyst resulted in complete resolution of jaundice. Treatment with oral albendazole was given pre-operatively and continued for two months after surgery.

CORRESPONDENCE TO

Dr. Zafer S. Matar King Khalid Hospital PB No.1120, Najran, Saudi Arabia Telephone: +96675223676 E-mail: zafer_S_m@hotmail.com

References

Author Information
Zafer Said Matar, FACHARZT, Arab Board, FACS
Consultant General Surgery, Laparoscopy, Endoscopy and Obesity, Department of General Surgery, King Khalid Hospital