Giant Intrahepatic Biliary Cystadenoma Mimicking Hepatic Hydatid Cyst

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Özet

Biliyer kistadenom (BKA), nadir görülen, biliyer epitelden gelişen hepatobiliyer kistik tümörlerdir. Orta yaş kadınlarla ve karaciğer sağ lobunda daha sık görülürler. Biz karaciğerde dev kistik lezyonu olan ve bazı karasteristik özellikleri ve klinik prezentasyonu kist hidatığı düşündüren, kistotomi ve drenaj ameliyatı uygulanan orta yaşta bir kadın hastanın histopatolojik incelemesi BKA ile uyumlu gelmesi üzerine hasta tekrar ameliyata alınarak sol hepatektomi ameliyatı uygulandı. BKA ve karaciğer kist hidatığı multiloküle kistler ve internal septasyonlar gibi benzer radyolojik özelliklere sahiptir. Eğer karaciğerde multiloküle kistik kitle saptanrsa BKA olabileceği de akılda tutulmalıdır.

Anahtar kelimeler: Biliyer kistadenom, Karaciğer kisti Karaciğer rezeksiyonu karaciğer Kist Hidatik

Abstract

Biliary cystadenomas (BCA) are rare hepatobiliary cystic tumors arising from the biliary epithelium. They are characterized by large multiloculated macroscopic lesions and their location is mostly intrahepatic. BCA and hepatic hydatid cyst (HHC) have similar radiological characteristics such as multilocular cyst with internal septations. They are more common in middle-aged women and their most being site is the right hepatic lobe. We report the case of a middle-aged woman who underwent cystotomy and drainage for a giant hepatic cystic lesion, of which some characteristics and the clinical presentation were suggestive of hepatic hydatid cyst. Because of the histological analysis of the cyst wall revealed BCA then the patient was taken to operation again and left hepatectomy was performed. BCA and hepatic hydatid cyst have similar radiological characteristics such as multilocular cyst with internal septations. When the multilocular cystic mass was detected in the liver BCA should be kept in the mind.

Keywords: Biliary cystadenoma, Hepatic cyst Liver resection Hepatic hydatid cyst

Introduction

Biliary cystadenomas (BCA) are rare hepatobiliary cystic tumors arising from the biliary epithelium. They are characterized by large multiloculated macroscopic lesions and their location is mostly intrahepatic. BCA and hepatic hydatid cyst (HHC) have similar radiological characteristics such as multilocular cyst with internal septations. They are more common in middle-aged women and their most being site is the right hepatic lobe. BCA carries a tendency for local recurrence and a risk of malignant transformation.

We report the case of a middle-aged woman who underwent cystotomy and drainage for a giant hepatic cystic lesion, of which some characteristics and the clinical presentation were suggestive of hepatic hydatid cyst. As, the histological analysis of the cyst wall revealed BCA then the patient was taken to operation again and left hepatectomy was performed.

Case Report

A 49-year-old woman presented in surgical clinic with complaints of coughing and abdominal pain for last three months. She had no other symptoms or medical history of liver disease. On physical examination, she was a well-
appearing, non-jaundiced female and no evidence of hepatosplenomegally, lymphadenopathy, or masses; beside this, there was no significant finding including vital sign. Laboratory examination showed normal CA125, CA19.9, a-fetoprotein (AFP), carcinoembryonic antigen (CEA) and liver function tests. A multiloculated, mixed echo cystic mass of 11.7 cm × 11 cm in the left lobe of liver was detected in abdominal ultrasonography (US). Abdominal tomography (CT) revealed a multiloculated cystic mass of 11.5 cm × 11 cm in the left lobe of liver, within daughter vesicles with a possibility of HHC (Figure 1).

Figure 1
Computed tomography images demonstrate a low-density well-defined cystic mass with internal septations which are enhanced during portal venous phase, left lobe

She underwent to exploratory laparotomy. During the operation, a large multiloculated cystic lesion was observed in the left lobe of liver and cystotomy, partial cyst excision and drainage was performed. The histopathological examination of the cyst wall specimen yielded the final diagnosis of the BCA. The transplantation and hepatology council discussed the patient and decided to left lobectomy. Patient underwent to surgery, left lobectomy was performed. The histopathological examination for the resected specimen yielded the final diagnosis of the BCA (Figure 2).

Figure 2
Section of mass in left lob of the liver on microscopy showing columnar to cuboidal epithelial cells lacking in nuclear atypia or mitosis

Resection margins of the hepatic parenchyma were free of tumor cell. The patient showed no postoperative
complication and was discharged on postoperative seventh day. She is doing well during consecutive follow up of fourteen months.

**Discussion**

Biliary cystadenoma is a rare cystic neoplasm of unknown aetiology and related approximately 5% of all the hepatobiliary cystic masses. They arise from the intrahepatic or, less frequently, the extrahepatic bile duct. The tumor is thought to form from the obstruction of the congenitally aberrant bile duct or due to the development of ectopic rests of primitive foregut sequestered within the liver. Histologically, cystoadenomas are characterised by the presence of cysts lined with mucinous cuboidal or columnar epithelium. BCA is usually atypical symptoms, includes abdominal pain, fullness, nausea and rarely jaundice, etc., depending on the location of the tumour. Tumor markers are not significant in the diagnosis. For diagnosis US, CT and/or Magnetic resonance imaging (MRI) are the radiological findings and major radiological characteristics of BCA are large multilocular cystic lesions with internal septations and mural nodules. Obstructive jaundice and cholangitis, hemorrhage and cyst rupture are very uncommon, presenting complications of these lesions. ERCP may be useful to investigate the communication between the tumor and bile ducts. The differential diagnosis of patients with complex cystic lesions of the liver includes BCA, as well as hydatid cyst, post-traumatic cyst, liver abscess, polycystic disease, hemorrhagic cyst, embryonal sarcoma, primary or metastatic necrotic neoplasm, atypical simple cyst, and biliary intraductal papillary mucinous neoplasm. Imaging studies by US, CT and MRI play an important role in diagnosis. Characteristic features include irregularly thickened wall, sharp demarcation, mural papillae and internal septa, etc. The risk of malignant transformation of BCA to Biliary cystadenoma carcinoma can be as high as 20%. First option of treatment is the radical excision of the tumor. Operative complete extirpation is essentially important because of considered to be a premalignant lesion. The operation for complete extirpation of lesion may be perform open or laparoscopic surgery according to the surgeon's decision. Mucinous biliary cystadenoma can be radically resected along with the tissue with a 2 cm margin from it.

In our patient symptoms are non-specific and CT scan revealed a multiloculated cystic mass of the left lobe of liver within like daughter vesicles with a possibility of HHC but the histopathological examination of specimen yielded the diagnosis of the Biliary cystadenoma. BCA and hepatic hydatid cyst (HHC) have similar radiological characteristics such as multilocular cyst with internal septations. When the multilocular cystic mass was detected in the liver, BCA should be kept in the mind.

**References**


Information Presentation

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