PRIMARY PELVIC HYDATID CYST AS AN UNUSUAL CAUSE OF ADNEXAL MASS IN A POSTMENOPAUSAL WOMAN

Case Report

POSTMENOPOZAL DÖNEM ADNEKSİYAL KİTLENİN NADİR BİR NEDENİ; PRİMER PELVİK KİST HİDATİK

Raziye Narin

Numune Training and Research Hospital, Obstetrics and Gynecology, Adana.

Mehmet Ali Narin

Numune Training and Research Hospital, Obstetrics and Gynecology, Adana.

Deniz Aka Satar

Numune Training and Research Hospital, Histology and Embryology, Adana

Hakan Nazik

Numune Training and Research Hospital, Obstetrics and Gynecology, Adana

Fulya Adamhasan

Numune Training and Research Hospital, Pathology, Adana

Sefa Ozyazıcı

Numune Training and Research Hospital, General Surgery, Adana

Corresponding Author

Raziye Narin

Department of Obstetrics and Gynecology, Adana Numune Education and Research Hospital Postal Code: 01330, Adana, TURKEY fax: +903222472654 Tel: +905426882828 ryencilek@yahoo.com.tr

ABSTRACT

Postmenopausal adnexal masses are important to make diferentiation of benign-malign disorders. A 59 year-old postmenopausal woman presented with a lower abdomen mass in clinically suspicious of malignancy. Investigations identify the nature. failed to On laparotomy, excision of the mass was done. Histopathological examination identified the lesion as hydatid cyst arising from the mesentery of rectum. The patient had no history of liver or lung involvement. significant А clinical suspicion is necessary in the differential diagnosis of pelvic masses to identify such a rare entity.

Key Words: *Postmenopause; cyst hydatid; pelvic mass.*

ÖZET

Postmenopozal dönem adneksiyal kitlelerin malign-benign ayrımını yapmak önemlidir.59 yaşında postmenopozal dönemdeki hasta batında kitle ile polikliniğimize basvurmus, malignite şüphesi yatırılmıştır. ile hastaneye Araştırmaların kitlenin tanısını belirlemede kalması üzerine yetersiz hastaya laparatomi yapılmış ve kitle çıkarılmıştır. Histopatolojik inceleme sonucunda rektum mezenterinde yerleşmiş kist hidatik tanısı konulmustur. Hastada daha önce geçirilmiş akciğer ve karaciğer kist hidatiği öyküsü bulunmamaktadır. Pelvik kitlelerin ayırıcı tanısında kist hidatik gibi nadir nedenleri belirlemek için özellikle endemik bölgelerde yüksek klinik şüphe gerekir.

Anahtar kelimeler: *Postmenopoz; kist hidatik; pelvik kitle.*

INTRODUCTION

Postmenopausal adnexal masses are important to make diferentiation of benign-malign disorders and district diagnosis require surgical removal and pathologic diagnosis.

The hydatid cyst is a common parasitic infection of liver. The most common form found in humans is cystic echinococcosis which is caused by echinococcus granulosus. In humans, the infestation is usually located in the liver (65%) or lungs (25%), and rarely involves the brain, heart, bone, or other organs(1). Involvement of others sites is usually secondary to these primary localizations. It is rare to diagnose an hydatid cyst in the pelvis, especially as a primary localization (2). The incidence being given as 0.2-2.25% (3).

We present a primary pelvic cyst hydatid arising from mesentery of rectum in a 59-year-old postmenopausal woman.as a rare entity.

CASE

A 59 year-old postmenopausal woman with gravida 11, parity 11 was admitted to our gynecology clinic with complaint of pelvic pain. Her family history and medical history were unremarkable except for hypertension. There was 64x57mm solid-cystic formation appearance at the in the ultrasound imaging left adnexia (USG) and abdominal computed tomography (CT) revealed that an 68x61mm mass lesion at the same location. The CT showed only the size and location of the mass, did not give additional information about the nature of the mass. All labaratory findings were normal (Ca125:11.0 U/ml, CA19-9: 23.5 U/ml CA15-3:24.6 U/ml AFP:2.8 IU/ml,

CEA:1.7 ng/ml, Hb:14g/dl). Cervicovaginal smear was benign.

The patient underwent laparatomy under general anesthesia. The Uterus, tubes and ovaries were compatible with menopausal status . At the left side of pelvis, behind the internal genital organs, a soft and smooth mass without any infiltration into the surrounding structures, palpated in the mezo of rectum. This mass was extirpated by a general surgeon (**Figure 1,A**).

The macroscopic appearance and the content of the mass was shown in figures (Figure 1,B,C). Postoperative recovery was uneventful. An albendazole therapy, 200 mg twice daily, was begun for six weeks. The patient underwent further clinical and the radiological evaluation for detection of hydatid disease of other organs. Since no evidence of such lesion was identified, a final diagnosis of primary rectal mesentery hydatid cyst was rendered. There was no complication in the postoperative period and she was discharged on the third postoperative day.

The solid-cystic lesion was subjected to histopathological examination. Histopathology confirmed the diagnosis of hydatid disease. (**Figure 1,D**).



Figure 1. Shown the pelvis after the mass removed(A), The mass and ist content (B,C) Microscopic appearance of germinal layer and laminated fibrous wall of hydatid cyst (H&Ex40). (D)

DISCUSSION

Echinococcosis is a zoonotic infection caused by Echinococcus spp. and is one of the most important helminthic diseases worldwide. Two forms of echinococcosis occur in Turkey, Echinococcus granulosus and E. multilocularis. The life cycle of E. granulosus is predominantly in dogs and sheep, and most sheep farmers in Turkey keep a dog or two.(4). In the litherature, the primary hydatid cysts arising from the broad ligament and ovary were reported (5,6,7). Mesentary of rectum is also a rare location of primary cyst hydatid. The majority of hydatid cysts cause no symptoms. The manifestation of symptoms depends on the location, size, and the pressure caused by the enlarging cyst(8). Hydatid cysts grow slowly, like benign tumors (9,10). Radiological findings range from purely cystic lesion to a completely solid appearance(11). USG and CT Scan may show some features of the mass such as multilocular appearance, cyst wall calcification, a fluid level from hydatid sand, and the ultrasonic water lilv sign (12). However, in the present case, USG and CT Scan could not detect such abnormality. CT images revealed only an image of solid-cystic adnexial mass . Total excision was performed without destroying the cyst wall and we did not find any organ involvement. visceral Retrospectively, we investigate the this is a primary infection because the patient had no history of hepatic and lung involvement.

Typically, medical treatment alone is not effective in hydatid disease(13,14). Complete surgical resection plus medical therapy is the preferred treatment for echinococcosis.. isolated Preoperative diagnosis of hydatid disease is essential because rupture and dissemination of the cyst may result in recurrence, and intraoperative spillage of the antigenic cyst fluid may lead to severe anaphylactic response. For this reasons, rupture or spillage of cysts should be avoided Laparoscopic cyst excision (15, 16).technically difficult can be although attempted with due risk of spillage if expertise for the same is available (17).

To diagnose this pathology one must have a high grade of suspicion and anamnestic data as it is important to differentiate between benign or malignant neoplasms. Hydatid disease must be considered while making the differential diagnosis of pelvic solid-cystic masses, especially in endemic areas.

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