Calcified pure uterine lipoma mimicking myoma

Leiomyomu taklit eden kalsifiye uterus lipomu

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Abstract

Pure lipoma of the uterus is a rare entity and only a few cases have been reported in the literature. Clinical symptoms and signs are similar to those found in leiomyoma and create preoperative diagnostic confusion. The histogenesis is still unclear. We report the case of a 70 year-old woman with pure lipoma of the uterus with calcification.

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Introduction

Lipomatous neoplasms of the uterus are rare and received little attention in the literature. It is difficult to diagnose these tumors preoperatively because its clinical presentation similar to that of uterine leiomyoma (1). There is no consensus as to the histogenesis or nomenclature of uterine fatty tumors. (2, 3). Pure fatty tumors of the uterus are extremely rare and usually develop in post menopausal women (4).

We report a case of isolated pure uterine lipoma with calcification diagnosed postoperatively by histopathological examination.

Case Report

A 70 year-old postmenopausal, multiparous woman presented with a sense of heaviness in the lower abdomen. On abdominal examination a suprapubic mass was palpable which was about 14 weeks gravid uterine size. The mass was firm and non tender with well defined margins. Per vaginal examination revealed an irregularly enlarged uterine corpus. Routine investigations revealed hemoglobin of 9.8 gm/dl with no other significant findings. Ultrasonography (USG ) of the abdomen showed a large calcified mass measuring 61.2 x 59.4 mm, arising from the fundus and posterior to the urinary bladder. Endometrial echo was thin and pushed posteriorly. Sonological diagnosis was calcified intramural myoma (Fig. 1). Total abdominal hysterectomy with bilateral salpingo-oophorectomy was carried out and the postoperative period was uneventful. Grossly, the uterus and cervix together measured 13×8.5×9 cm. in size. The cut section showed a well circumscribed yellowish intramural mass with punctate white areas measuring 6.5×6.5cm (Fig. 2). Multiple sections were taken and stained with hematoxylin and eosin. The sections showed lobules of mature adipocytes separated by thin vascular connective tissue. The myometrium was pushed to the periphery forming a pseudocapsule along with fibrous tissue (Fig. 3). There was linear calcification at the periphery, and blotchy calcification within the fatty tissue. The endometrium was atrophic. Von-Kossa stain proved the white blotchy areas to be calcification.

Figure 1. USG diagnosing the mass as calcified myoma

Özet


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Anahtar kelimeler: Lipoma, uterus, kalsifikasyon

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Discussion

Fatty uterine tumors may be defined as tumors composed entirely or in part of adult type adipose tissue. Smooth muscle and fibrous tissue are usually intermixed (5). These fatty tumors include pure lipoma and mixed lipoma such as myolipoma, lipofibroma, lipoendymoma, and fibromyolipoma (6). Some of the pure lipomas are co-incidentally associated with other lesions. Dey and Dhar in 1993 reported a case of uterine lipoma in association with struma ovarii (7), DiGesu’G et al. in 1998 found pure uterine lipoma with endometrial carcinoma (8), Dilek TU reported a case of pure uterine lipoma with cervical carcinoma (9).

Strikingly, very few cases of isolated pure lipoma of the uterus with calcification were reported. The incidence of uterine fatty tumors varies from 0.03 to 0.2 % (10). Ninety percent of fatty tumors of the uterus occur in patients over the age of 40 years (5) and their clinical presentation is similar to uterine leiomyomas and diagnosed rarely by USG or X ray. The age of our patient was 70 years and the mass was misdiagnosed as a case of calcified myoma. For preoperative diagnosis MRI is the best modality of radiological investigation (4).

The uterine fundus is the typical site for uterine fatty tumors. This is comparable with our case. The tumor may be located at the cervix and less commonly in the subserosal location (5). There are no accepted criteria for distinction of a pure lipoma from a mixed lipoma/leiomyoma. According to D.J. Pounder (5) the diagnosis of pure lipoma of the uterus should only be made when any smooth muscle cells present, are confined to the periphery of the tumor. Histopathology showed purely adipose tissue interspersed with fibrous septa in our case. One of the unique features in our case was the presence of dystrophic calcification. Only a few cases of pure lipoma with calcification are reported. Theories on histogenesis lay emphasis on explaining the presence of adipose tissue, an element not usually found in the uterine corpus. According to Bride et al. (6) fatty degeneration of connective tissue of the myometrium may be responsible for differentiation into fatty tissues. A morphologic and histogenic analogy has been drawn between uterine fatty tumors and renal angiolipomas (2). It has been suggested that uterine fatty tumors are hamartomas or most recently choriostomas. It is also believed these tumors, or even the rarer pure uterine lipomas, result from adipose tissue metaplasia in leiomyoma (5).

None declared

References