Leiomyoma of the Vulva

Nagat Bettamer1*, Ream Langhe1*, Zahia Elghazal1, Farag Ben Ali1 and Lamia Alkikhia2

1Department of Obstetrics and Gynaecology, University of Benghazi, Benghazi, Libya
2Department of Pathology, University of Benghazi, Benghazi, Libya

*Corresponding author: Nagat Bettamer and Ream Langhe, Department of Obstetrics and Gynaecology, University of Benghazi, Benghazi, Libya

Abstract

The authors present a rare case of vulval swelling in a 2-year period in a 35-year-old woman. The swelling was associated with mild vulval discomfort but no other symptoms. The tumor was removed surgically with no complications. Histopathology of the swelling confirmed vulval leiomyoma. Postoperative recovery was unremarkable and the woman was discharged on postoperative day 2.

Keywords

Leiomyoma, Swelling, Vulva

Case Presentation

A 35-year-old patient presented to our department with a history of painless left vulval swelling of over a duration of two years. The three previous uncomplicated vaginal deliveries and her last delivery was 3 years ago. The woman was swelling was slowly growing and associated with mild discomfort but no other symptoms. The woman had non-smoker and of a normal BMI. Her medical and surgical histories were unremarkable. There was no family history of any malignancies.

On examination, the patient was well, and her vitals were stable. Examination of her breasts and abdomen was unremarkable.

Local examination

Showed enlarged left side vulval swelling 12 × 10 cm, firm, fairly mobile with no tenderness and no signs of inflammation (Figure 1). The uterus was of normal size and there was no adnexal mass.

Abdominal, transvaginal and transperineal scan revealed a cystic swelling in the left vulva with degenerative changes. No other pathology was detected in the scan.

The woman was counselled and consented for surgical excision under general anesthesia. At surgery, a vertical incision was performed on the inner side of the left labium majus. The tumour was inoculated and excised. Homeostasis was secured and the tissues sent for histopathology (Figures 2a and Figure 2b).

Histopathology Report

Gross examination revealed a well circumscribed non encapsulated soft tissue firm mass 12 × 11 × 13 cm size grey whorled with yellow spots.

Microscopy

The section revealed a benign neoplasm composed of interlacing bundles of spindled cells with abundant
Lesions can be challenging. This is due to rarity of the lesions and non-specific clinical presentation [7]. On examination, vulval leiomyoma are usually non-tender, mobile with firm consistency [8-11].

Ultrasound is the most reliable imaging tool in establishing the diagnosis of uterine and extrauterine leiomyoma [5,12]. Magnetic resonance imaging (MRI) is useful in differentiating benign and malignant lesions in difficult cases [4,5]. A characteristic feature of malignant lesions on MRI is low signal intensity on T2-weighted images [1].

Surgical excision of the tumour along with some of the surrounding tissues is the treatment of choice of vulval leiomyoma [1,3,4]. Histologically, leiomyomas of the vulva are generally similar to their more commonly occurring counterparts in the uterine body. Follow up after surgery is recommended because of risk of recurrence.

**Conclusion**

Vulval leiomyoma is a rare type of benign tumour in the vulva. This condition is often misdiagnosed as Bartholin cyst. Transperineal ultrasound helps in establishing the diagnosis. Surgical excision is the best current treatment available and histopathology confirmed the diagnosis. Postoperative follow up is highly recommended for these patients.

**References**


