Vulval leiomyoma: a rare clinical entity

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INTRODUCTION

Leiomyomas are benign smooth muscle tumors and by far are the commonest gynecologic neoplasms. Symptomatic uterine leiomyomas affect 20 – 30% of women older than 35 years. However vulval leiomyomas are rare and are mostly seen in the 5th and 6th decades of life.

Vulval leiomyomas are believed to arise from the smooth muscle cells within the erectile tissue, blood vessels or the round ligament remnants in the labium majus. Other unusual sites of origin in the genitourinary tract include the ovaries, urethra and urinary bladder. Leiomyomas in the unusual locations as in vulva make their clinical identification challenging and pose diagnostic dilemma. Histopathologic analysis is required to confirm the diagnosis.

CASE REPORT

Mrs. R, a 64 year old obese, postmenopausal woman presented with a painful swelling in the vulva of 3 months duration. Her general, physical and systemic examination was unremarkable. On examination of her external genitalia, she was found to have a non-tender, tense cystic mass of about 5x4cms in the lower part of left labium majus. The vulval lesion was clinically diagnosed as Bartholin’s gland cyst and intraoperatively the gross appearance was that of a leiomyoma and surgical excision was performed. Histopathological analysis confirmed the diagnosis of leiomyoma.

DISCUSSION

The uterus is the most common site of origin of leiomyomas; however they may arise at any site where smooth muscle cells are found. Rarely extrauterine leiomyomas may be seen along the labium majus. Only a few hundreds of vulval leiomyomas have been reported in literature.
The tumors frequently test positive for estrogen and progesterone receptors at histopathological analysis.\textsuperscript{5} Degenerative changes in these tumors have also been reported.\textsuperscript{10,11}

Vulval leiomyomas are treated with conservative surgery. Close long term follow-up is required as these tumors can recur even in postmenopausal women mimicking vulval carcinoma.\textsuperscript{6,12,13}

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**REFERENCES**


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**Figure 1:** Intraoperative appearance of Vulval leiomyoma.

**Figure 2:** Cut section of Vulval leiomyoma.

The mean age of presentation of these tumors varies from 13 to 71 years and in our case the woman was 64 yrs and postmenopausal. The average size of the tumor ranged from 0.5 to 15cm.\textsuperscript{7} Vulval leiomyomas are usually asymptomatic, present as painless lumps and most often are misdiagnosed as Bartholin’s gland cyst as in our case.\textsuperscript{7,8} The differential diagnosis include benign and malignant entities such as Bartholin’s gland cyst, fibromas, lymphangiomas, soft tissue sarcomas, neurogenic tumors and Epstein Barr virus induced smooth muscle tumors.\textsuperscript{5,9}

Although these tumors are almost always benign, it is essential to distinguish these from malignant tumors that may have a close clinical resemblance. Confirmatory diagnosis is by histopathological analysis. Neilson et al proposed that vulval tumors which fulfil the following criteria should be considered malignant:

1. Diameter greater than 5cms and infiltrative margins.
2. More than 10 mitotic figures/10 HPF
3. Moderate to severe cellular atypia.\textsuperscript{7}