Fibroepithelial polyps are common benign skin tumors in the general population. However, genital tract involvement is unusual. Their etiology is unclear, but associations with metabolic disorders and hormonal fluctuations have been described, which explains their higher prevalence in women. Due to the variety of differential diagnoses, histopathological evaluation is necessary. Their management is usually conservative. However, they may require surgical intervention in some cases. We present four cases of vulvar fibroepithelial tumors of different sizes, one of them classified as giant, as well as the management approach. With this presentation, we hope to improve knowledge, diagnostic accuracy and contribute to the effective treatment of patients with this rare vulvar pathology.

**Key words:** Vulva, Neoplasm, benign, Skin neoplasia

**RESUMEN**

Los pólipos fibroepiteliales son tumores cutáneos benignos frecuentes en la población general. Sin embargo, la afectación del tracto genital es inhabitual. Su etiología no es clara, pero se han descrito asociaciones con trastornos metabólicos y fluctuaciones hormonales, lo cual explica su mayor prevalencia en mujeres. Debido a la variedad de diagnósticos diferenciales, es necesaria la evaluación histopatológica. Su manejo es habitualmente conservador; sin embargo, pueden requerir intervención quirúrgica en algunos casos. Exponemos cuatro casos de tumores fibroepiteliales vulvares de diferentes tamaños, uno de ellos clasificado como gigante, así como la aproximación de manejo. Con esta presentación, esperamos mejorar el conocimiento, la precisión del diagnóstico y contribuir al tratamiento eficaz de las pacientes con esta patología vulvar tan poco frecuente.

**Palabras clave.** Vulva, neoplasia benigna, neoplasia cutánea

**INTRODUCTION**

The study of vulvar pathology plays a crucial role in the understanding and management of various conditions affecting the female genitalia. The vulva, composed of diverse anatomical structures, can be affected by a wide range of benign and malignant diseases.

Fibroepithelial polyps (FEPs) or acrochordons are benign skin tumors of mesenchymal and ectodermal origin. They occur frequently in the general population, and their frequency increases with age\(^1\). These tumors are frequently found in skin folds, such as the neck, axilla, submandibular or inguinal areas\(^2\). However, the genital tract can also be affected\(^2\).

In this case series, we present three cases of vulvar fibroepithelial tumors of different sizes and their management approach, as well as a review of the literature. With this presentation, we hope to improve knowledge, diagnostic accuracy and contribute to the effective management of patients with this rare vulvar pathology.

**CASES REPORT**

**Case 1.** A 30-year-old female patient presented for consultation due to a soft pedunculated mass in the right labium majus for the past 12 months (Figure 1). Initially, the mass was approximately 1 × 1 cm in size,
which gradually increased, associated with a pulling pain in the perineum. She had no history of pathology or any sexually transmitted infection. Physical examination revealed an irregular mass measuring 20 × 15 × 5 cm arising from the right lip with a 1-cm diameter stalk. It was soft and mobile. The overlying skin was hyperpigmented and with a velvety surface, and there was a pressure ulcer in the lower area. The neck, axilla, groin, and other areas of the body were free of lesions. All physical examination and laboratory findings were normal. Surgical excision of the lesion was performed without incident. Histopathology revealed the diagnosis of benign fibroepithelial polyp. There were no malignant cells in the specimen.

Case 2. A 36-year-old female patient came to the outpatient clinic for a mass on the left vulva, which started as 1x1 in size and increased in size over a period of one year. There was no history of vaginal bleeding, trauma, sexually transmitted diseases, medical or surgical history (Figure 2). Her menstrual history was normal. She used hormonal contraceptives (progesterone injection every three months) for two years. Physical examination was normal. On gynecologic examination, a 7 × 5 × 5 cm, firm, non-painful, pinkish, pedunculated mass protruding from the left labium majus covered by normal skin with no signs of ulceration. The rest of the physical examination and laboratory tests were normal. Surgical excision of the mass was performed. The histopathological result of the biopsy was fibroepithelial polyp of the vulva.

Case 3. A 57-year-old female patient presented with a vulvar mass that increased in size over two years until it reached a size of 5x3x2 (Figure 3). The lesion was asymptomatic except for slight pulling pain on movement. Physical examination revealed a pedunculated mass on the right labium majus covered by normal skin with no signs of ulceration. The rest of the physical examination and laboratory results were within normal limits. Surgical excision of the mass was performed without incident. The postoperative course was uneventful. The histopathological result of the biopsy was fibroepithelial polyp of the vulva.

Case 4. A 45-year-old female patient came to the outpatient clinic for painless mass growth in the perineal area in the last 6 months (Figure 4). She reported no other history. Physical examination revealed a 1 x 1 x 1 pedunculated mass covered by hyperpigmented skin, with no visible ulcers. All physical examination and laboratory findings were normal. Complete excision surgery was performed due to cosmetic issues. The histopathological report showed fibroepithelial polyp.
DISCUSSION

FEP are tumors of frequent occurrence in diverse anatomical areas. The first case in the vulva was reported in 1988 by Ostor et al\(^5\) and since then few cases have been described in the literature. These tumors vary in appearance from papules approximately 2 millimeters wide and high also known as acrochordons, filiform lesions approximately 2 millimeters wide and 5 millimeters high, to large pedunculated tumors\(^6\). The largest case of vulvar FEP reported in the literature was a lesion 42 centimeters long\(^5\). In our cases the variety of sizes of presentation can be evidenced, the largest being 20 centimeters long.

The etiology of FEP has not been completely studied, but an association has been found with the presence of metabolic abnormalities, such as obesity, diabetes mellitus type 2, insulin resistance, dyslipidemias, hypertension, and low high-density lipoproteins (HDLs) levels\(^6\). However, none of our patients presented metabolic alterations.
There are different hypotheses about the overgrowth of FEP in the vulvar area. One possible explanation is the sensitivity to hormones and hormonal changes of the epithelium located in the genital tract. Another important feature is that FEPs located in this area are more frequently observed in women of reproductive age, with hormone use and during pregnancy[7,8]. Understanding the molecular mechanisms of FEP growth could contribute to the development of more specific therapeutic interventions in the future.

The growth rate of fibroepithelial polyps should also be considered. While most patients present slow and steady growth, there are cases in which small lesions exhibit exponential growth in a short period of time[9]. Some articles even describe de novo onset and rapid growth[10], which resembles the first case described.

Due to their variety of clinical presentation, FEP can pose diagnostic challenges because of their overlapping features with other vulvar lesions, such as condylomata or squamous papillomas. In such cases, histopathologic evaluation is necessary.

Histologically, FEP can be of two types according to predominance: epithelial or stromal[9]. In general, they are composed of a fibrovascular stroma rich in collagen and fibrous tissue, a base with regular boundaries and thin vascular walls that extend parallel to each other. In addition, it is covered by a surface of keratinizing epithelium that can be thick with acanthosis, papillomatosis and hyperkeratosis[10].

Although FEP is generally considered a benign and asymptomatic tumor, isolated cases have been reported whose final diagnosis was basal cell carcinoma or squamous cell carcinoma in situ, highlighting the role of histopathology in challenging situations[12,13]. In our cases, the definitive diagnosis was confirmed based on histopathologic examination, and none of the specimens evidenced malignant cells.

The management of FEPs is usually conservative; however, they can be treated surgically for esthetic reasons or for chronic irritation. They can be treated with scissors, cautery, or cryotherapy if they are small in size. When they are larger, as in these cases, treatment is performed by total excision under local or regional anesthesia to avoid regrowth. In addition, long-term follow-up is recommended to detect recurrences as early as possible[13,14]. In the four cases presented, treatment was by total surgical excision using local anesthesia, with adequate healing and complete recovery in all cases.

REFERENCES


