Fibroepithelial Stromal Polyp as Low Back Lesion in 88-year-old Man: a Case Report



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ABSTRACT

Introduction Fibroepithelial stromal polyp (FESP) of the female lower genital tract is a rare benign lesion characterized by polypoid proliferation of stroma, covered by a benign squamous epithelium in the vulvovaginal region. These hormone-sensitive lesions usually occur in young to middle-aged women. The lesions are typically no larger than 5 cm in diameter and are found randomly during routine gynecologic examinations.

Patient Information The case of this study was an 88-year-old man with a solitary polypoid lesion measuring 3×2×2 in the low back area showing the histological appearances of those described in the vulvoyaginal region.

It was a well-circumscribed gray-brown lesion covered by wrinkled skin. Histopathological examination revealed edematous hypocellular lesion at low magnification with hyperplastic squamous epithelium coating with reactive epithelial change. At high magnification, the lesion consisted of bland-appearing spindle and stellate-shaped cells in an edematous and fibrous stroma with a large number of variably-sized blood vessels. Immunohistochemistry showed the lesional cells to be focally immunoreactive for EMA and negative for CD34, SMA in stromal cells.

Conclusion FESPs is an uncommon benign lesion that can occur in men and areas other than the genitals with independence from female sex hormones. Although this is a benign finding, reporting it will increase the knowledge about this rare tumor.

Keywords Polyp; Skin; Back

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Fibroepithelial Stromal Polyp as Low Back Lesion in 88-year-old Man...

Introduction

Fibroepithelial stromal polyp (FEP), also known as a mesodermal stromal polyp, is a rare benign polypoid subepithelial mesenchymal proliferation of the lower female genital tract characterized by polypoid proliferation of stroma [1], covered by a benign squamous epithelium [2]. It is a site-specific mesenchymal neoplasm of the vulvovaginal region [3] present at the vagina, vulva, or cervix [1]. More commonly, in the vulva, and rarely are found in extragenital sites [4].

These lesions usually occur in young to middle-aged women, especially the obese ones ^[5]. These polyps are hormone-sensitive and most commonly occur in pregnancy. However, they can also be seen in premenopausal females who are on hormone replacement therapy ^[6].

These lesions typically do not grow larger than 5-cm in diameter mostly. The lesions' size is 1×2cm ^[7] and is found incidentally during routine gynecologic exams ^[8]. Here, we present a case of a fibroepithelial stromal polyp arising from the low back of an 88-year-old male, showing histological appearances of those described in the vulvovaginal region unusual manifestation of this disease.

Patient Information

An 88-year-old man with chronic obstructive pulmonary disease (COPD) and hypertension was hospitalized in ICU due to pneumonia and respiratory distress. The surgeon found a solitary polypoid lesion measuring 3×2×2 cm in the low back area without any other similar lesions in his body during the examination. The lesion had been appeared as a small nodule about a long time ago and grew up gradually at this time. It was not the chief complaint of the patient. No radiographic imaging was done for the patient before surgery. The patient's drug history indicated antihypertensive drugs, and steroid medication was not seen in their medical history. The patient was treated by local excision of the lesion under general anesthesia. No further local treatment was given.

Grossly the mass was well-circumscribed graybrown and covered by wrinkled but otherwise unremarkable skin.

Histopathological examination revealed edematous hypocellular lesion at low magnification with hyperplastic squamous epithelium coating with reactive epithelial change; underlying subepithelial tissue composed of loose collagenous tissue. There was no demarcation between the lesion and the epidermis.

At high magnification, the lesion consisted of blandappearing spindle and stellate-shaped cells in an edematous and fibrous stroma with scattered chronic inflammatory cells. A large number of variably-sized blood vessels were seen. There was no evidence of necrosis and mitosis (Figure 1).

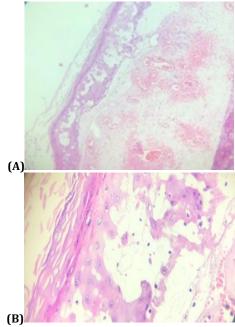


Figure 1) Histological appearances of the lesion. A: Rather hypocellular edematous stroma and increased number of blood vessels, B: Overlying epithelium with reactive epithelial change

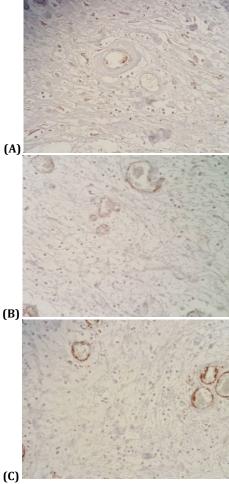


Figure 2) Immunohistochemical finding in Stromal cells A: EMA weakly positive, B: SMA negative, C: CD34 negative

No plasmacytoid cells, thick-walled vessels, or cells with epithelioid morphology were observed.

Immunohistochemistry showed the lesional cells to be focally immunoreactive for EMA and negative for CD34, SMA in stromal cells (Figure 2).

Discussion

The fibroepithelial polyp is a very common benign tumor of the skin ^[9]. They commonly occur on the neck, axilla, perineum, and thighs. The fibroepithelial stromal polyp (FESP) are infrequent mesenchymal lesions of the distal female genital tract found in the vulvovaginal region ^[10].

The reported lesions' morphological features are fully in keeping with a benign lesion, as its name says. In this context, it is important to differentiate this from a more common benign skin lesion of adults, fibroepithelial polyp. Fibroepithelial stromal polyps are polypoid but usually contain the hypocellular stroma consisting of bland-appearing spindle cells in an edematous stroma hyperplastic squamous with reactive epithelial epithelium change. Fibroepithelial polyp histologically shown fibrovascular cores covered by squamous epithelium, the central core composed of loose collagen. Nevertheless, they do not show edematous and myxoid stroma, nor they show typical reactive atypia, which we saw in our case. The other differential diagnosis is spindle cell metaplastic carcinoma-which can appear deceptively bland. This current case shows no expression of epithelial markers. (EMA negative) in comparison with spindle cell metaplastic carcinoma, which is EMA positive. other possible differentials are pleomorphic fibroma that has atypical single fibroblasts which are CD34 positive [11] that our case was CD34 negative

In this case, an 88 year-old man presents with a large size fibroepithelial stromal polyp in the low back area. The low back compartment is an unusual sight for the origin of a fibroepithelial stromal polyp Second and third unusual thing about this lesion was that the lesions mostly occur in middle-aged women. Our case was a man in his old age. The fourth unusual thing was its feminine sex Hormone Independence in our case. While fibroepithelial stromal polyp of Vulva exhibit hormonal responsiveness and female hormones influence their growth [11] In the best of our knowledge, except for 2 cases of large fibroepithelial stromal polyp presenting as a nipple mass reported by Shaaban et al. and Rexhepi et al. no recently published that was reported such a similar extragenital presentation [5,7].

Conclusion

FESPs is an uncommon benign lesion that can occur in men and areas other than the genitals with

independence from female sex hormones. Although this is a benign finding, reporting it will increase the knowledge about this rare tumor.

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