A case of Buschke-Lowenstein tumor with hypogastric extension

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ABSTRACT

The giant condyloma acuminatum or Buschke-Löwenstein tumor (BLT), is a rare sexually-transmitted disease. The BLT is caused by human papillomavirus (HPV) which affect the perineal region. BLT is an anogenital tumor with histologically benign aspect but it has an invasive growth and a potential of malignant transformation. The first therapeutic option is surgical excision. We report the case of a 61-year male with a BLT developing since 10 years and extending to the hypogastric region.

Key words: Condyloma; Buschke-Löwenstein; HPV; Hypogastric

INTRODUCTION

Giant condyloma acuminata, also known by the eponym Buschke-Lowenstein tumor (BLT), is a human papillomavirus (HPV) –associated verrucent carcinoma of the anogenital region [1]. BLT is a rare sexually-transmitted disease (STD) [2], with an incidence of approximately 0.1% in the general population [3], whose main risk factor is the infection with the Human Papilloma Virus (HPV) [4]. BLT is characterized by an invasive growth, a high rate of recurrence to the treatment and likely potential of malignant transformation (squamous cell adenocarcinoma) [2]. Since this disease is rare and no controlled studies exist, radical excision of this anogenital lesion is generally recommended as the first line therapy and close vigilance and follow-up are essential [5].

CASE REPORT

A 61-year-old man presented to the emergency department complaining of perineo-scrotal tumor. It had initially started as a small condyloma that gradually grew over 10 years. Our patient was heterosexual, with the notion of unprotected sex. He reported no fevers, loss of weight, urinary symptoms, or difficulty in defecation. The pathological history of the patient did not reveal chronic diseases or the administration of some medications which might have suppressed the function of the immune system. The Dermatology Life Quality Index was at 14 reflecting a significant effect on patient’s quality of life, with important repercussion on his sexual life.

The clinical examination revealed multiple irregular exophytic verrucous fetid tumors, of variable size from 3mm to 10 cm, with some stony and hard consistency areas (cauliflower-like), covering the whole perineum and hypogastrium (Fig. 1), extending to the perianal region and the interfessier furrow (Fig. 2). The local superficial lymph nodes could not be found at palpation.

The laboratory tests reveal severe microcytic, hypochromic anemia with a haemoglobin value of 5.7 g/dl, while the rest of investigation was normal. The patient receives blood transfusions, eventually the haemoglobin reaching a value of 10.16g/dl, close to its normal value (12 g/dl).
HIV, syphilis, and hepatitis B and C tests were negative. Colonoscopy examination did not show any extension at the rectal mucosa and magnetic resonance imaging was without abnormality.

Histological examination of a biopsy specimen revealed an exophytic epithelial proliferation, made of thick epithelial vegetations, surmounted by a thick layer of parakeratotic cells, with the presence of koilocytes, signs of HPV infection. Cellular atypia was not detected.

The diagnosis of Buschke-Löwenstein tumor was retained and the patient was referred to the urological surgery for extensive excision.

**DISCUSSION**

The Buschke-Löwenstein tumor (BLT) or giant condyloma is an epithelial tumor described by Buschke and Löwenstein in 1925 [6]. It differs from an acuminated condyloma by its size, its potential for repressing of neighboring tissues and the risk of transformation into invasive epidermoid carcinoma.

The TBL is inconsistently associated with human papillomavirus (HPV) infection, most often non-oncogenic: HPV 6 and 11 [7].

Despite its indolent nature and its low degenerative power, the BLT significantly alters the patient's quality of life and especially his sexual life by its large size as is the case with our patient; indeed the hypogastric extension has never been described in the literature before.

Because of the rarity of this tumor, the optimal management strategy is not known at this time. Chemoradiation has been recommended in cases when malignant transformation may occur [8]. Intraarterial chemotherapy with agents such as methotrexate has also been successfully utilized in verrucous carcinoma of different parts of the body, including the anogenital region. This modality may be used as neoadjuvant therapy before surgical intervention and in certain cases may obviate the need for surgery. Radiation therapy alone has generally been discouraged because of potential risk of transformation into anaplastic carcinoma [9,10].

The risk of mortality, evaluated at 21% in perianal TBL but unknown in penoscrotal TBL, it is caused by the local invasion and the slow destruction of the underlying tissues [7].

**CONCLUSION**

The delay of consulting a doctor can increase the risk of malignant degeneration and the possibility of a huge tumor growth. This can lead to compressive and infectious complications, making treatment more difficult.

Prevention is the only effective treatment consisting on sex education and early treatment of condylomatous lesions.

**Consent**

The examination of the patient was conducted according to the Declaration of Helsinki principles.
REFERENCES