INTRODUCTION

Giant genital warts (GGW) represent a rare form of sexually transmitted disease caused by the human papillomavirus (HPV), arising more frequently in the vulvar and perianal regions as large exophytic cauliflower-like mass. Estimated rate of recurrence is 60 to 66%, while malignant transformation is possible and it has been reported in 30 to 56% of cases. A 45-years-old woman was admitted to our Structure of Plastic and Reconstructive Surgery, Siena, Italy with an extensive cauliflower-like masses diffused on vulvar and perianal region. The patient was treated in general anaesthesia, with a wide en bloc excision up to free clinical edges and immediate reconstruction of the vulvar continuity. Buschke Lowenstein tumour or giant genital warts is a sporadic tumour with an elevate local recurrence rate. In some cases, surgery can be very difficult and it must be associated to other strategies. An accurate follow-up is always necessary.

CASE REPORT

A 45-years-old heterosexual woman was admitted to the Structure of Plastic and Reconstructive Surgery of University of Siena (Italy) in October 2013, complaining of genital discomfort. Three years before, the patient had noticed the evidence of little papillary lesions in the perivulvar region, which became progressively more numerous and voluminous, extending to the perianal region as giant, irregularly ovular masses. A clinical examination revealed extensive cauliflower-like masses diffused on vulvar and perianal region, irregular borders, colour ranging from purple to pink (Figure 1).

There was no propagation into the anal canal or into the vagina. The lesions caused difficulty in sitting and compromised the patient’s sexual activity. There wasn’t clinical lymphadenopathy; past medical history was negative for other sex transmitted diseases and immunosuppression. The patient was treated in general anaesthesia, with a wide en bloc excision up to free clinical edges and immediate reconstruction of the vulvar continuity. The surgical cutting of the skin was made with a scalpel, while cutting and coagulation of the dermis and subcutaneous tissues was performed with an electric scalpel. The large wounds were closed by suturing the external portion of the labia minora with the medial aspect of the labia majora and it was not necessary to resort to surgical flaps. An accurate follow-up is always necessary.

Histopathological examination reveals an epidermal hyperplasia with para and hyperkeratosis. A lympho-histiocytic inflammatory infiltrate was present, with spikes produced by papillae rich koiocytes.
DISCUSSION

In 1925 a lesion locally invasive, with rapid growing was first described by Abraham Buschke and Ludwig Lowenstein as “carcinoma-like condylomata acuminate” now Buschke-Lowenstein tumour (BLT). BLT is a rare sexually transmitted disease with an incidence of 0.1%. It is characterized by invasive growth and high recurrence after treatment. Estimated risk of recurrence is 60 to 66%. In some cases malignant transformation is possible and it has been reported in 30 to 56% of cases [4]. The lesions are triggered by HPV, in particular genotypes 6 and 11 are involved. HPV types 16, 18, 31 and 33 are often found in lesion with neoplastic transformation [6,7]. Occasionally types 16 and 18 are involved too [6,8]. Some authors consider poor hygiene and sexual promiscuity some risk factor for the disease. The mean age of patients with giant genital warts is 43 years. The anatomical region most affected by the lesions in the female is the vulva in 90%. Anorectal location is less frequent and sovrapubic localization is rare [9,10]. The lesions appear histologically as exophytic mass with epidermal hyperplasia, hyperkeratosis and parakeratosis, without basement membrane disruption but with compression of deep dermis. Immunosuppression can promote the tumour’s growth, so every patient with this condition must be checked for HIV, hepatitis virus and syphilis. The patient examined in this work wasn’t immunosuppressed Some authors consider giant genital warts (GGW) as precancerous lesions [11] and in any case a correlation between these lesions and verrucous carcinoma is shown, thus making an early radical treatment advisable.

Verrucous carcinoma was first described by Vacker-
a giant genital warts, but particularly for extensive lesions, other therapies such as chemoradiation, topical and intralesional drugs, carbon dioxide laser therapy (etc.) can be used alone or in association to reduce the risk of recurrence [7]. Some authors prefers other treatment such as solution with podofilox solution [14]. Some authors do not prefer harvesting a stoma in these patients, but only prescribing low fibre diet, loperamide and bowel cleansing in post-operative period [15,16].

CONCLUSIONS

Bushke Lowenstein tumour (BLT) or giant genital warts (GGW) is a sporadic tumour with elevate local recurrence rate. It has a stronger and documented correlation with verrucous carcinoma, so diagnosis and therapy must be accurate and complete. Surgical complete excision remain the main treatment although there are several alternative treatments that, used with surgery, can increase radical rate reducing the risk of recurrence. In some cases, surgery can be very difficult and it must be associated to other strategies. An accurate follow-up is always necessary.

REFERENCES