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Case Report



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Giant Cervical Condyloma During Pregnancy: A Case Report



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Introduction: Giant condyloma of the cervix (GCC) is an uncommon entity that has been poorly characterized in the literature, being even more uncommon during the pregnancy.

Case Presentation: The authors describe a case of GCC in a pregnant woman as well as reviewing the literature on the topic aiming to reach a better understanding of the natural history of this entity. Our patient is a 27-year-old primigravida of Asian origin. The patient has been diagnosed with cervical giant condyloma in a second trimester coitorrhage context.

Conclusion: A conservative treatment of the giant condyloma could be preferable during pregnancy, carrying surgical excision out after birth.

Keywords: Giant condyloma, Papilloma virus, Pregnancy

Introduction

Human papilloma virus (HPV) infection of the cervix manifests in a variety of morphologic alterations of the epithelium, both squamous and glandular, mature and immature. Although most lesions are flat, some have an exophytic growth with acanthosis and hyperkeratosis and verrucous architecture. Giant condyloma of the cervix (GCC) arises from the confluences of multiple condyloma acuminate. HPV serotypes 6 and 11 represent the most commonly found and their lesions displays absent or weak p16 expression by immunohistochemistry (1,2).

The most common risk factors associated with HPV are: diabetes, low socioeconomic status, smoking, oral contraception, drug abuse, immunosuppression, and other venereal diseases. However it is been noted that HPV rates are highly detected among pregnant women, relating this fact to the alteration in the immune response during pregnancy (2-4).

Patients who present this entity are usually young, presenting vaginal bleeding and/or mass effect. Biopsy reveals a uniformly bland, exophytic squamous epithelial proliferation with viral cytopathic changes and absence of stromal invasion (1).

Case Presentation

The patient is a 27-year-old primigravida of Chinese origin without a relevant medical record. However, in her gynecological and obstetric record it is noted that she is a primigravida with a history of vulvar condyloma, which was treated successfully topically one year prior to this pregnancy. She presents with regular cycles and started sexual intercourse at 19 years. She had 3 sexual partners and used oral contraception for 18 months prior to the pregnancy. The patient presented to our hospital at 18 weeks of pregnancy with coitorrhage and no further symptomatology. Speculum examination showed a 3x2x3 cm exophytic lesion at the upper cervical lip that partially occupied the external cervical orifice without active bleeding (Figure 1).

Cervicovaginal cytology, cervical biopsy and genotyping of HPV by polymerase chain reaction (PCR) were performed. The patient follow-up was done by the cervical pathology unit. The results included a low-degree intraepithelial lesion in the cytology, a positive PCR for serotype 6 and condyloma acuminatum in the histological study of the biopsy.

Given the patient current pregnancy status and the size of the condyloma, we advised the patient to postpone any surgical intervention for fear of cervical bleeding that may endanger the patient's pregnancy, performing a cesarean section because of the risk of neonatal infection in a vaginal delivery.

At postpartum control, 30 days after delivery, a significant decrease in the lesion was observed (Figure 2) and a surgical excision of the condyloma was successfully carried out by diathermic loop. The pathology report showed a low-degree squamous intraepithelial lesion, condyloma.

Discussion

The giant condyloma from ano-genital region was described by Abraham Buschke and Ludwig Lowenstein in 1896. It was later named Buschke-Lowenstein tumor (BLT) after them. Multiple cases in anus, penis and perineum have been reported since then, being very rarely



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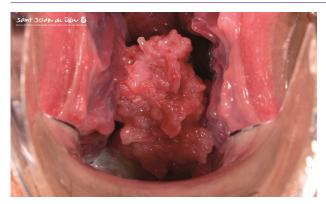


Figure 1. Speculum examination showing an exophytic lesion at the upper cervical lip partially occupying the external cervical orifice without active bleeding. The features of the camera were: Nikon D800E; 60 mm Lens; 125 Shutter speed; f-29; ISO 100; Flash ring.



Figure 2. A significant decrease in the lesion was observed. The features of the camera were: Nikon D800E; 60mm Lens, 125 Shutter speed; f-29; ISO 100; Flash ring.

present in the cervix (5).

Condyloma acuminate are frequently located on the external genitalia and perineal zone. They tend to increase and spread after any alteration of the immune system. Condyloma acuminate tend to spread and proliferate quickly during pregnancy and then decrease during puerperium (6). It is known the most risk factors of HPV infection in the literature are diabetes, low socioeconomic status, multiple sexual partners, smoking, oral contraception, drug abuse, immunosuppression, and other veneral diseases (2,3). In our case, the risk factors were young age, three sexual partners and oral contraception. Although we found the condyloma acuminate in a less frequent location, mainly in the cervix, the clinical course of the lesion corresponded to those described above: proliferation during the pregnancy followed by a spontaneous decrease during puerperium. The cases of a localized lesion of HPV developing into an invasive BLT are scarce (6,7).

Large size condylomata may be treated to prevent obstruction/mass effect in the delivery canal, to prevent newborn infections and the possible progression to preneoplastic or neoplastic lesions (1). Reported cases show that some lesions can increases rapidly in size during

the pregnancy producing bleeding and mass effect by mechanical obstruction (8). Therefore, we need to asses every single case individually by considering the risks and benefits of management i.e. not only by the characteristics of the lesion but also the best way of delivery (8). In our case, vaginal bleeding was the reason for seeking medical assistance. It was at the exploration when we could note the partial obstruction of the external cervical orifice (1,4,6,9).

The transmission risk to the fetus and the partner should not be underestimated. The estimated risk of transmission to the partner after sexual intercourse is 66%. The estimated transmission risk from fomites is unknown. On the other hand, fetal transmission risk is estimated at a 20%. The manner of delivery (vaginal or cesarean section) does not seem to influence neonatal infection rate (10). Generally the newborn becomes clear of the HPV infection after the first year of life; the development of HPV lesions after that period is very rare (11).

An important reason for the treatment of these lesions in a pregnant woman is the threat of potential progression to cancer (12). Methods that have been used for the treatment of BLT include immunotherapy, radiotherapy, podophyllin and CO₂ laser, but none of them treats the lesion successfully (13). Surgical excision is the treatment with the best results (14-16). Nevertheless, it is important to highlight the possibility of more conservative treatments based on the serotype found in the biopsies, being more conservative in low risk serotypes.

Considering the literature review as well as our experience in this case, the authors conclude that this lesion should be treated, due to its features alongside its risk of malignant progression (12-14). The preferred treatment is surgical excision. Nonetheless, given the natural history of these lesions during the pregnancy (6), a conservative treatment could be preferable, finishing the treatment with a surgical excision after birth.

Ethical Issues

There is no ethical issue in this paper.

Conflict of Interests

The authors declare no conflict of interests.

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