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## CASE REPORT

# Giant disseminated condylomatosis in SLE

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**Introduction:** Females with systemic lupus erythematosus (SLE) have higher prevalence of human papillomavirus (HPV) infection, which can lead to the development of warts. Herein we report the first case of giant disseminated condylomatosis (GDC) in a SLE female on mycophenolate mofetil (MMF). **Case report:** The patient, a 33-year-old, Black female, was diagnosed with SLE during her first pregnancy in 2003 based on the features of arthritis, skin rash, seizures, nephritis and presence of antinuclear antibodies. Her pregnancy resulted in preterm delivery of a stillborn fetus at 28 weeks. Since that time she has been treated with steroids and different regimens of immunosuppressive drugs such as cyclophosphamide, azathioprine and lately MMF. In the last few years she presented GDC involving the genital area in addition to skin on the lower abdomen. Topical therapy with trichloroacetic acid, imiquimod and podophyllin was only partially effective. Different types of HPV were identified in the lesions, being HPV-11 in abdomen, HPV 6, 11, 42 in vulva, HPV-6, 11 in vagina and HPV-6, 11 in endocervix. **Conclusions:** GDC may be a complication of SLE, secondary to the disease itself, its treatment or other factors not yet identified. *Lupus* (2012) 21, 332–334.

**Key words:** giant disseminated condylomatosis; human papillomavirus (HPV); immunosuppressants; systemic lupus erythematosus; warts

## Introduction

Patients with systemic lupus erythematosus (SLE), particularly those on immunosuppressive therapy, have higher prevalence of human papillomavirus (HPV) infection.<sup>1</sup>

HPV is responsible for various diseases in the anogenital region, varying from benign condyloma acuminatum to carcinoma. The types 6 and 11 are associated with genital warts and cases of low-grade squamous intraepithelial lesions. Fifteen HPV types are considered high-risk oncogenic (most frequently 16, 18, 33, 35, 45, 52 and 58), as they are associated with high-grade squamous intraepithelial neoplasia and invasive cancers.<sup>2</sup> This virus can cause giant condyloma acuminatum, also known as Buschke–Lowenstein tumor (BLT). It is typically a histologically benign disease, but it

may clinically present as a malignant disease due to its expansive and invasive growth.<sup>3</sup> Although, malignant transformation in the course of the BLT occurs in up to 50% of the cases, distant metastases are rare.<sup>4</sup>

Herein we report the first case of giant disseminated condylomatosis (GDC) in a SLE female during the course of mycophenolate mofetil (MMF) therapy.

## Case report

The patient, a 33-year-old Black female was diagnosed with SLE during her first pregnancy in 2003 based on the features of arthritis, discoid rash, seizures, nephritis and presence of antinuclear antibodies, in addition to a skin biopsy revealing features of lupus. Her pregnancy resulted in preterm delivery of a stillborn fetus at 28 weeks. Her first sexual intercourse was at the age of 26 years and she has had only one partner since that time. She had menarche at 14 years of age, and her menstrual cycles

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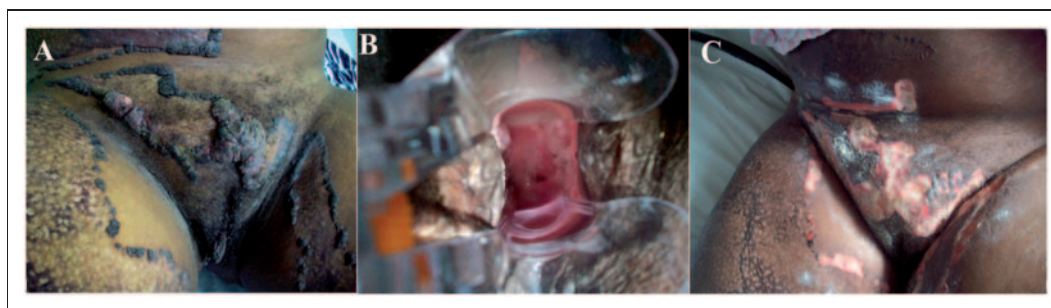
have been irregular. Since that time she has been treated with steroids as well as different regimens of immunosuppressive drugs such as cyclophosphamide, azathioprine and lately MMF (2g daily). Genital warts first appeared in 2004 and low grade intraepithelial lesion (LSIL) was detected by cytology, and cervical intraepithelial neoplasia (CIN 2) and vulvar intraepithelial neoplasia (VIN 2) were detected by histology. Initially, she was successfully treated with trichloroacetic acid at 70% in the vulva and electrosurgical excision procedure with a loop (LEEP) in the cervix. After seven months on MMF therapy in 2009 for massive proteinuria, genital warts recurred in the vulva, vagina and perianal area. At that time, she was accidentally burned with hot water (second and third grade), leaving scars on the lower abdomen, pubic mound and lower and medium thighs. The burn scars became progressively hypertrophic, resembling cauliflower, spreading to the lower abdomen, vulva and thighs, vagina, vulva, perineum and anal region (Figure 1, A and B). Biopsies were performed in these locations showing acanthosis, papillomatosis and hyperkeratosis. Endocervical cytology showed high grade intraepithelial lesion (HSIL) and cervical biopsy demonstrated condyloma. Different types of HPV were identified in the lesions, being HPV-11 in the abdomen, HPV 6, 11, 42 in the vulva, HPV-6, 11 in the vagina and HPV-6, 11 in the endocervix by PapilloCheck assay.<sup>5</sup> A search for HPV in the endocervical smear was also positive by in-house PCR as described previously.<sup>6</sup> Co-infection with HIV, HTLV-1, syphilis and hepatitis B and C was ruled out by serologic tests. Therapy with trichloroacetic acid, TLR7 agonist imiquimod 5% cream and later with podophyllin 2% oil resulted in only partial improvement. Recently she was submitted to a surgical procedure and showed a reasonable response (Figure 1C).

## Discussion

HPV is estimated to be the most common sexually transmitted infection in the US population.<sup>2</sup> Young age (14 to 24 years) and sexual behavior (multiple sexual partners, increased frequency of intercourse) are the two major factors in the incidence of genital HPV infection.<sup>2</sup>

In a recent systematic review we demonstrated a higher prevalence of HPV infection in SLE patients.<sup>1</sup> Except for immunosuppression (secondary to the treatment and/or the disease itself), most other known risk factors for HPV infection were absent in the present case. We have no convincing explanation for why our patient developed such an unusual form of condylomatosis (GDC). Although her immunosuppression could partially justify such a complication,<sup>7</sup> as observed in patients with HIV<sup>3,8,9</sup> and kidney transplant recipients (KTRs) on an immunosuppressive regimen,<sup>10</sup> in her case, it does not exclusively seem to be the case, as taking immunosuppressive drugs is a commonplace in SLE and GDC, and has not been previously been observed in this disorder. Curiously, it has been suggested that in KTRs at least, cutaneous warts are more common in those taking azathioprine (20.6%) than in those on MMF (3.5%).<sup>10</sup> The influence of any particular immunosuppressive drug in the present case is difficult to assess as she has been exposed to different types of these drugs. The types of HPV found in her lesions (HPV 6 and 11) are in agreement with the descriptions given in other cases of GDC not associated with SLE. It is notable that the development of warts in areas of burn scars is unique, and no similar description could be found in the literature.

In conclusion, although rare, GDC may be a complication of SLE, secondary to the disease itself, its treatment or other factors not yet identified.



**Figure 1** Giant disseminated condylomatosis in patient with systemic lupus erythematosus during mycophenolate mofetil therapy. Disseminated warts on the lower abdomen, vulva, thigh (A) and vaginal wall (B) did not respond to conservative treatment with trichloroacetic acid, imiquimod and podophyllin. (C) Aspect of lesions 8 days after surgical resection.

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## Conflict of interest statement

The authors have no conflict of interest that is directly relevant to the content of this manuscript.

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