



SKIN CANCER (OTHER THAN MELANOMA)

## **PYOGENIC GRANULOMA-LIKE KAPOSİ SARCOMA PRESENTING IN A HIV-NEGATIVE MAN**

*B Ho<sup>(1)</sup> - G Rinaldi<sup>(1)</sup> - S Szakacs<sup>(2)</sup> - N Tiffin<sup>(2)</sup> - I Khan<sup>(1)</sup>*

*St George's Hospital, Dermatology Department, London, United Kingdom<sup>(1)</sup> - St George's Hospital, Histopathology Department, London, United Kingdom<sup>(2)</sup>*

**Background:** A 36-year-old gay immunocompetent man first presented to the plastics team with a new ulcerating lump on his left first toe. Clinically, the lesion was suggestive of pyogenic granuloma. An excisional biopsy confirmed the histological findings of a completely excised pyogenic granuloma.

2 years later, the same patient presented to the dermatology clinic with a new erythematous, eroded papule with intermittent bleeding on the left second toe. Clinically, this lesion was suggestive of another pyogenic granuloma. The lesion was removed by curettage and cautery. Histology demonstrated an ulcerated polypoid skin lesion with vaguely lobulated proliferating vessels in the dermis. There was atypical spindle cell proliferation with a 'sieve-like' appearance with extravasated red cells and mitotic activity. PAS stain highlighted eosinophilic globules. Immunohistochemistry for CD31, CD34 and D2-40 was positive and HHV-8 showed diffuse nuclear positivity. HIV screening test was negative.

This prompted the review of the histology of the initial pyogenic granuloma that presented 2 years prior. When the slides of the initial lesion were reviewed, a few cells stained positive for HHV-8, suggesting the initial presenting lesion was not of a pyogenic granuloma, but rather a Kaposi sarcoma in a HIV-negative gay man.

**Observation:** Pyogenic granuloma-like Kaposi sarcoma is considered a clinicopathologic variant of Kaposi sarcoma. This entity has been reported in both HIV-positive and HIV-negative individuals. Histologically, this form of pyogenic granuloma can resemble Kaposi sarcoma and lesions can stain positive for CD31, CD34, smooth muscle actin and factor VIII-related antigen. D2-40 immunostaining can be negative. Human herpesvirus-8 latent nuclear antigen-1 is a specific immunoperoxidase marker to help differentiate PGs and PG-like KS.

**Key Message:** Pyogenic granuloma-like Kaposi sarcoma is an uncommon clinicopathologic variant of Kaposi sarcoma. This case highlights the need to consider Kaposi sarcoma as a differential diagnosis in patients presenting with pyogenic granuloma-like lesions.

