

Successful Treatment of a Keratoacanthoma in a Young Patient with the Application of Topical 5% Imiquimod Cream

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Abstract

Keratoacanthomas (KA) are epithelial tumors that present as rapidly evolving nodules with a central hyperkeratotic plug, and occasionally show signs of spontaneous regression. A 21-years-old patient strongly refused the diagnostic biopsy and insisted on a non surgical treatment. He was successfully treated with imiquimod 5% cream.

CLINICAL IMAGE

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Key Clinical Message

Surgical excision is the most common treatment option for keratoacanthomas. However, the topical application of the imiquimod 5% cream is a safe and effective option, especially for patients who refuse surgical removal.

Case Description

A 21-year old male presented in our Department due to an asymptomatic nodule in the proximal fifth digit of the right hand, that had first appeared 3 months prior to the referral. The lesion rapidly progressed in size during the first 4 weeks and afterwards remained stable. The clinical examination revealed a firm skin-coloured nodule, of approximately 1.8 x 1.8 cm in size, with a central non-removable keratinous plug (Figure 1A). The clinical diagnosis of keratoacanthoma was made, and a biopsy was recommended for diagnosis confirmation. The patient strongly refused the diagnostic biopsy and insisted on a non surgical treatment.

We therefore suggested a regimen of topical imiquimod 5% cream under occlusion, for 5 consecutive days per week, over a period of 4 weeks. 2 weeks after treatment initiation, a prominent local inflammatory reaction could be documented, resulting in crust formation and erosion (Figure 1B). 4 weeks after the completion of treatment, the lesion was markedly flattened, until complete resolution was achieved (Figure 1C).

Keratoacanthomas (KA) are epithelial tumours that present as rapidly evolving nodules with a central hyperkeratotic plug, and occasionally show signs of spontaneous regression [1]. The treatment of choice for KAs is surgical excision, as it provides the advantage of complete tumour removal in a short period of time [1-2]. However, conservative therapeutic strategies are also to be considered, especially when it comes to the management of KAs in visible areas with a probability of cosmetic disfiguration, or when it comes to treating patients with multiple KAs [2].

Keywords: Keratoacanthomas, imiquimod cream, epithelial tumour

Patient consent for publication

A written informed consent was obtained from the patient for publication of this case report.

Conflict of interest

There are no conflicts of interest to declare.

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Author contribution

FM, EL, LT, G-IV, IP, FI, CK, VT and K-MP: contributed to the clinical data collection and prepared the case report. FM, SG and K-MP: contributed to the design of the case report presentation and performed the final revision of the manuscript.

Data availability

Data available on request from the authors

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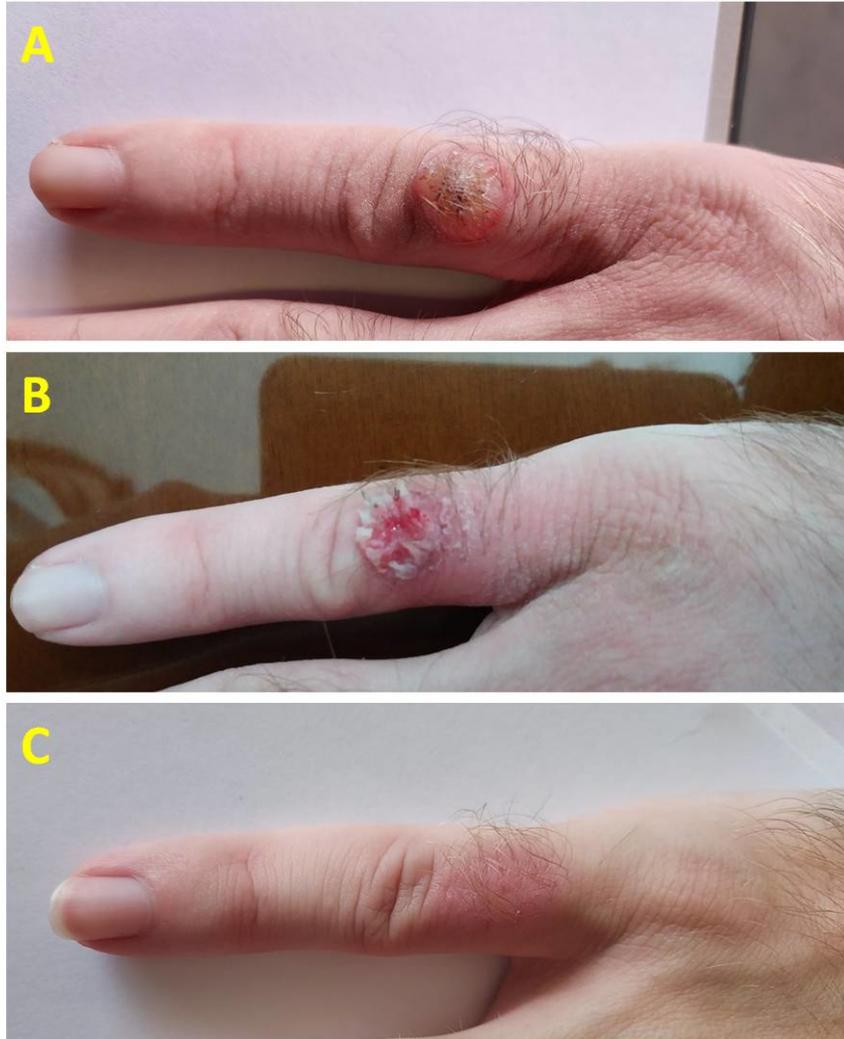


Figure 1 : A. KA in the proximal fifth digit of the right hand, before treatment B. KA in the proximal fifth digit of the right hand, 3 weeks after treatment initiation C. Complete resolution of the KA in the proximal fifth digit of the right hand, 4 weeks after the completion of treatment

