



Case Report
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Inverted Follicular Keratosis in External Auditory Canal: Case Report and Literature Review



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Abstract

Objective: we report a rare case of inverted follicular keratosis in external auditory canal. Method: case reports and review of the world literature concerning inverted follicular keratosis in external auditory canal.

Keywords: Inverted follicular keratosis (Ifk); External auditory canal (Eac); Benign tumor

Introduction

Inverted follicular keratosis (IFK) appears as a firm, asymptomatic, pinkish-brown, usually small (less than 1cm in diameter) papule. It is located in the face region in about 85% of cases, especially in the chin and upper lip, other sites of the head and neck can also be affected. It reaches males more often thanfemales and they are usually middle-aged and elderly individuals[1,2]. Histologically it may be classified as a benign tumor of the infundibulum of the hair follicle, although the cause of the onset of this lesion has not yet been fully elucidated[3]. It is characterized by large lobules that extend to the dermis, composed f basaloid cells in the periphery and squamous keratinized cells towards the center with scaly swirls [4]. Some authors postulate that it may be related to viral warts or seborrheic keratosis, others believe that it is an independent entity [5,6,7]. In one study, no inverted follicular keratosis was found in the human papilloma virus, militating against a relationship with viral warts[8]. Dermatoscopy is not enough to establish the diagnosis and to differentiate it from other lesions related to more frequent pathologies, such as viral warts, seborrheic keratosis, basal cell carcinoma (BCC) and squamous cell carcinoma (SCC), being necessary the anatomopathological study for definitive diagnosis [8]. The most common method used in the treatment of inverted follicular keratosis is complete surgical excision. After caution surgical excision, there is no evidence of invasive growth or metastasis[9].

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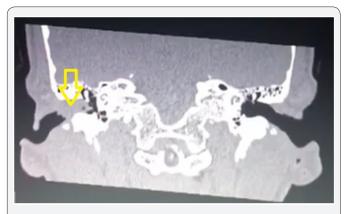


Figure 1: Soft-tissue material was evidenced in the external auditory canal (arrow).

A 35-year-old female patient was seen in the otorhynolaryngology department with sintomns of a longstanding otorrhea. Physical examination revealed a verrucous and bleeding lesion in an external auditory conduit with progressive growth for three years. The audiometry did not show hearing loss and the immitance tympanometry showed a type A tympanometry curve on the left side and type as on the right side. On the tomography, soft-tissue material was evidenced in the external auditory canal, causing partial obstruction of the

right conduit (Figures 1&2). Middle ear, mastoid and left ear without changes. The patient underwent surgical resection of the lesion and the histopathological analysis of the fragments revealed the diagnosis of inverted follicular keratosis (IFK).



Figure 2: Soft-tissue material was evidenced in the external auditory canal (arrow).

Discussion

The presentation of inverted follicular keratosis in the external auditory canal (EAC) is extremely rare and therefore often unknown. The pattern reversed in the EAC has a high risk of erroneous interpretation as an invasive tumor dissemination, anatomical pathological analysis fordifferentiation [10]. The IKF has chromatic variants, having relation with the melanin cellular content, being more common brown and yellow colorations. Although expansive lesions in EAC commonly cause conductive hearing loss [11,12], there was no loss in this case. The tomographic study assisted in the evaluation of the lesion and a complete surgical excision of the lesion was performed. The development of secondary degenerations are extremely rare but described in the literature



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[13]. The histopathological analysis differentiated it from other pathologies. After the result, excision of the lesion - treatment of choice for inverted follicular keratosis-had already been performed [9]. There was no need for another complementary treatment because there is no evidence of malignancy.

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