Verroucas Xanthoma of Faucial Pillar - A Case Report

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Abstract

We present a case of Verruciformxanthoma (VX) occurring on faucial pillar of oral cavity.

VX is an uncommon benign mucocutaneous lesion of unknown etiology. It usually appears as single or multiple plaques or papules may be raised or flat with verrucous or papillary rough surface texture, colour varying from reddish pink to yellowish gray, mainly affecting masticatory mucosa, especially gingiva and hard palate. Histologically, VX is characterized by the presence of parakeratized epithelium with thin rete ridges and connective tissue papillae extending up to the surface. The papillae characteristically consist of foam cells, also called xanthoma cells. We report a case of VX in the faucial pillar which is not been reported in the literature and discuss their clinical and histopathological findings.

Keywords: Faucial pillar; Xanthoma; Foam cells

Introduction

Verruciformxanthoma (VX) is an uncommon non inflammatory benign mucocutaneous lesion of unknown etiology and was first described by Shafer in 1971 [1]. Oral VX usually is an isolated lesion occurring on the masticatory mucosa chiefly gingival and hard palate [2]. The characteristic microscopic feature is the accumulation of foam cells (lipid-laden macrophages) in the connective tissue papillae between the epithelial ridges [3]. Excision is the treatment of choice. However, no potential for malignancy has been reported till date [4].

Case Report

We report a case VX on the left faucial pillar in a 45 year old male patient, he is not a smoker, non alcoholic, no use of tobacco in any form and not suffering from any systemic diseases and not on any medication, the lesion was seen by the patient an year ago (Figure 3), measuring about and it remained of same size even after one year without any symptoms.

On examination rough whitish yellow lesion was noted on the left faucial pillar which was no tender and asymptomatic with rough texture, based on the case history and examination provisional diagnosis of xanthoma was given and as the lesion was small in size excision of the lesion was advised and the specimen was subjected to histopathological examination.

Histologically

H&E stained section shows epithelium overlying connective tissue stroma. The epithelium is stratified squamous parakeratinized type with flakes of keratin present in focal areas. At the margins the epithelium is thin and atrophic, while at the centre it is hyperplastic showing varying thickness with exophytic finger like papillary projections and acanthotic rete processes in the connective tissue papilla. Focal areas of the epithelium are edematous and show spongiosis with loss of cohesiveness of epithelial cells. The connective tissue papilla contains numerous foamy histiocytes with centrally placed nuclei and granular cytoplasm resembling xanthoma cells which are restricted only to the connective tissue papilla. Just beneath the epithelium nodular areas of chronic inflammatory cells predominantly lymphocytes & plasma cells are seen. The deeper connective tissue stroma is fibrillar with endothelial lined blood vessels and minor salivary glands.

H and E stained section shows epithelium covered by thickened layer of parakeratin with distinctive orange coloration. The connective tissue papillae contained numerous large macrophages with foamy cytoplasm. The overall histopathological features is suggestive was of Verruciform Xanthoma (Figure 1 and 2).

Discussion

VX is an uncommon benign mucocutaneous lesion of unknown...
The most characteristic feature is epithelial cells. Elongated epithelial rete ridges extend into the lamina propria at a uniform level or depth. The most common precursor is keratinizing epithelium. Plaques, erythema and ulcerations [11]. Immune response was also related to VX pathogenesis [10].

Viral infection could be associated with the lesion; however, studies have been done with no association found with human papillomavirus. Multifocal cases of VX involving the upper aero digestive tract have been also reported in a patient with systemic lipid storage disorder [9,13] (Figure 1 and 2).

Because of the severity of surface keratinization, its color may vary from white to red. Therefore, oral VX may resemble a squamous papilloma, verruca vulgaris, or a mucosal fibroma. These entities do not contain lipid-laden macrophages and they exhibit varying degree of koilocytic change, which are known to be absent in VX. Because of its verrucous nature, verrucous carcinoma should be also added to the list of differential diagnoses and can be distinguished by the presence of invasive epithelial proliferation, cellular atypia, and the lack of foamy histiocytic infiltrate [2,8]. VX is usually treated by a conservative excision. To date, only three cases of recurrence have been reported [2,9].

**Conclusion**

VX is a multi factorial chronic reactive lesion. The clinical diagnosis may be challenging; however, the histological features are diagnostic and well defined. Its recognition and correct diagnosis is critical because VX can occur in conjunction with systemic and cutaneous inflammatory diseases and to reduce the anxiety in healthy individuals.

**References**


