Focal epithelial hyperplasia: Case report

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SUMMARY

The purpose of the present article is to present a 15 year-old patient with focal epithelial hyperplasia and to review the references on the subject-related etiological, pathological, diagnostic and treatment aspects. Focal epithelial hyperplasia is a rare human papilloma virus (HPV) related to oral lesion with very low frequency within our population. Surgical treatment with a biopsy was performed, acanthosis and parakeratosis are consistent histopathological features, since the patient had no history of sexual contact and HIV infection, the virus was probably acquired from environmental sources.

Key words: focal epithelial hyperplasia, heck’s disease, oral mucosa, papilloma virus.

INTRODUCTION

Focal epithelial hyperplasia (FEH) or Heck’s disease is a rare contagious disease caused by human papilloma virus (HPV) types 13 or 32 (1,5) and was first described in 1965 from the observation of isolated or multiple soft papular and nodular eruptions on the oral mucosa of Navajo Xavante Indian and Alaska Eskimo children (2). The condition occurs in numerous populations and ethnic groups, is more common in Native Americans, certain other ethnic groups and children. The frequency of this disease is variable with a wide range from 0.002 to 35% depending on the population studied and geographic region of the world. FEH lesions have been detected worldwide (3, 4) but it is rare disease in Europe. In a study on oral lesions among an adult Swedish population of 20,333 subjects, a prevalence of 0.1% for FEH was reported (1). A higher incidence in close communities and among family members indicates infectious pathogenesis it is also may be an oral manifestation of HIV infection. This condition is characterized by the occurrence of multiple small papules or nodules from 5 to 10 mm diameter in oral cavity. The lesions are painless, tend to disappear spontaneously, and are predominantly found on the lower lip, buccal mucosa and tongue, and less often on the upper lip, gingiva and palate (6, 7).

The present report describes 15-year-old patient with no HIV infection with typical oral mucosa and histopathological features, in which the lesions had persisted for 2 years.

CASE PRESENTATION

This report illustrates how to recognize, diagnose and manage patients with focal epithelial hyperplasia. 15-year-old teenager girl applied to Žalgiris Clinic of Vilnius University Hospital and complained of a group growing lesions on the cheek and lip mucosa. Lesions had been first noticed almost two years ago, which were painless and soft and had appeared spontaneously. Oral examination revealed several sessile, normochromic tissue

![Fig. 1. Labial mucosa of a 15-year-old teenager girl shows multiple slightly elevated papulonodular lesions](image-url)
referring to surgical treatment, to first inform the patient of a possible relapse of his condition.

**DISCUSSION**

Human papilloma virus is a DNA-containing viruses that replicate the flat epithelial cell nuclei. Infected with HPV, infection can result in subclinical course or latent form of HPV-related lesions which may appear and disappear or persist for a long time. The mucosa may be 8-10 times thicker than normal. It is impossible to predict when and if lesions will recur or where new lesions may emerge, it is also not yet known whether recurrence of the lesions is related to latent infection, changes in immune response or new infections, more studies are needed.

There seems to be no malignant transformation potential of FEH (8, 9), but it may be an oral manifestation of HIV infection, so our primarily tasks are early disease diagnosis and research on possible HIV infection. Setting the diagnosis of
FEH is extremely important because of the need for the differential diagnosis with other conditions, namely inflammatory fibrous hyperplasia, inflammatory papillary hyperplasia, verruciforme xanthoma, verrucous carcinoma, Cowden’s disease, condyloma acuminatum, and focal dermal hypoplasia syndrome (Goltz-Gorlin syndrome) (2, 7). FEH is a benign condition that heals spontaneously and therefore requires no treatment, except in some cases of functional (e.g., lesions that are constantly traumatized on biting) or aesthetic impairment (10). Several treatment modalities have been proposed for FEH, as scalpel surgery, cryosurgery, laser ablation, cauterization and topical treatments with retinoid acids or interferon (8, 11) with no evidence of any treatment success differences. Follow-up is important for evaluation of treatment success.

**CONCLUSION**

FEH is a condition caused by human papillomavirus, quite uncommon in European countries. Early detection of the disease is the most important factor in the prevention of its further development.

### REFERENCES


**CASE REPORTS**

**REFERENCES**


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