Case Report

A rare case of lipoma on the buccal mucosa: A case report

Shaul Hameed K1,*, Imran Mohtesham2, Yasir Alyahya3, Anoop Kurian Mathew4, Mariyam Nishana M5

1 Dept. of Maxillofacial Surgery and Diagnostic Science, College of Dentistry, Qassim University, Al-Qassim, Saudia Arabia
2 Dept. of Oral Pathology and Microbiology, Yenopoya Dental College, Yenopoya University, Mangalore, Karnataka, India
3 Dept. of Conservative Dentistry, College of Dentistry, Qassim University, Al-Qassim, Saudia Arabia
4 Dept. of Oral Medicine and Radiology, Indira Gandhi Institute of Dental Sciences, Ernakulam, Kerala, India
5 Kings Dental Care

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ABSTRACT

The oral lipoma is a rare entity. A lipoma is a slow-growing, benign tumor composed of mature adipose tissue. It is most commonly encountered in the region of the trunk and proximal extremities, but very rarely occurs in the oropharyngeal region. When it develops in the buccal mucosa it compromises oral functional and cosmetics. Histopathological diagnosis plays a major role in treatment decisions. We hereby report a case of 52 years old male from the southern part of India presenting lipoma on the buccal mucosa which was surgically excised and the diagnosis was confirmed by histopathology.

1. Introduction

The lipoma is listed as a common tumor of mesenchymal origin seen in areas where fat is located in the body. They are usually considered as benign soft tissue tumors comprising of mature adipocytes histopathology, the cells of the lipoma differ metabolically from normal fat cells even though they are histologically similar.1 Subcutaneous occurrence is more often than in deeper tissues.2 The etiology of lipoma is unknown. They are known to develop in and around shoulders, trunk, axilla, and neck. Oral lipoma accounts for 4.4% of oral soft tissue benign tumors.3 Clinically they are usually manifested as asymptomatic, yellowish in color, soft doughy consistency swelling. The usual site of oral occurrence is buccal mucosa, tongue, and floor of the mouth. Fourth and fifth decades of life in males predominantly known to have a lipoma. Occurrence on lips, palate, vestibule, and salivary gland may interfere with mastication and speech.4 We hereby present a case report of 52 years old male from south India with a lipoma on the buccal mucosa diagnosed and treated with surgical excision and confirmed by histopathological diagnosis.

2. Case Report

A 52-year-old male patient presented to the Department of Oral Medicine and Radiology for the management of swelling at the left buccal mucosa. The swelling was small in size initially and increased in size gradually over the past five years. There was no history of any associated symptoms or bleeding/discharge from swelling. On local examination, it was 2 cm x 2 cm in diameter with pedunculated base yellowish in color. The surface appeared to be normal, on palpation. The swelling was doughy inconsistency, slippery, and not tender. [Figures 1 and 2]

Based on the clinical examination and chair side investigation provisional diagnosis of lipoma was made. An excisional biopsy was done. The tissue was sent for
histopathological diagnosis. Routing H and E staining were done. On histopathological examination of the lesion, it depicted mature adipose tissue admixed with collagen streaks with well-demarcated surrounding connective tissues. The thin fibrous capsule exhibited a lobulated pattern. The section also showed few blood vessels in the connective tissue stroma. [Figure 3] Based on the clinical and histopathological findings a diagnosis of lipoma was given. Post-operative follow up revealed uneventful healing with no recurrence.

Fig. 1: Clinical picture showing growth (2x2) cm diameter n the left buccal mucosa

Fig. 2: Clinical picture showing pedunculated base

3. Discussion

The first oral lipoma was reported in 1848 and was termed as Yellow Epulis. Lipoma has commonly encountered tumor origin of adipose tissue, but very rarely present in the oral cavity with a prevalence of 1 in 5000. It can occur at any age but more frequently seen in the male group with age above 40 years. Our case also was a male patient with 52 years of age. The clinically intraoral lipoma is low grade, slow-growing, it takes 10 years for the patient to seek attention from the date of first notice with a mean value of 2 years.

Oral lipomas (OLs) occur most commonly in the parotid region followed by the buccal mucosa, tongue, floor of the mouth, and palate. When present in the buccal mucosa it will be of round or oval with well-defined mass. Usually rigid and in some cases it is soft depends on the fibrous content. In our case, it was round well defined and rigid. It is a simple criterion to diagnose clinically based on the appearance unless located deeply. Clinically, the lipoma is described as a slow-growing, well-circumscribed mass of the soft tissue.

The histopathological differential diagnosis for lipoma is leiomyoma, fibroma, pleomorphic adenoma of the minor salivary gland, epidermoid cyst, and papilloma. Histopathological there will be a nodular structure with connective tissue covered by stratified squamous epithelium. Lipoma rather than liposarcoma is diagnosed if the lesion does not show any of the following: lipoblastic proliferation, variation in adipocyte size, atypical and enlarged adipocyte nuclei, hyperchromatic, or bizarre stromal cells in fibrous septa, between adipocytes or in vessel walls.
In leiomyoma’s, there will be bundles of interlacing spindle-shaped smooth muscle cells, elongated nuclei blunt-ended, and pale staining. Pleomorphic adenomas will be encapsulated, well-circumscribed and the capsule may show tumor cell infiltrate.

Papilloma’s contains keratinized squamous cell proliferation in a finger-like pattern with fibrovascular connective tissue.11

In the present case, it showed classic features of adipose tissue with blood vessels and an 8-10 cell layer of atrophic stratified squamous epithelium strongly suggesting Lipoma on the buccal mucosa. Histopathological confirmation plays a major role in these cases because the treatment differs for if the results come out to be different lesions. Although the growth of oral lipomas is usually limited, they can reach a great dimension, interfering with speech and mastication.12 The main treatment of lipoma is complete excision of the mass which was done for the present case. However, recurrence has not been reported so far after adequate excision.13

4. Conclusion

Lipoma when present in the oral cavity is low grade, slow-progressing asymptomatic unless the mass causes interaction with the mastication and aesthetics issues. It develops subcutaneously and fewer times involves deeper tissues. Complete surgical excision is the best way to prevent a recurrence.

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6. Conflict of Interest

The author(s) declare(s) that there is no conflict of interest regarding the publication of this article.

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Author biography

Shaull Hameed K, Assistant Professor
Imran Mohtesham, Reader
Yasir Alyahya, Lecturer
Anoop Kurian Mathew, Reader & HOD
Mariyam Nishana M, Oral Pathologist

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