10 years recurrence of an oral intramuscular lipoma: case report

Recidiva de lipoma intramuscular bucal após 10 anos: relato de caso

La recurrencia de lipoma intramuscular bucal después de 10 años: reporte de caso

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Abstract

Intramuscular lipomas are a variant of benign lipomas that emerge inside skeletal muscle fibres at different locations and present a high recurrence rate, when not properly treated. We report a case of an oral intramuscular lipoma in 61 years old female patient that recurred 10 years after the first surgery. The authors discuss the need for a more aggressive surgical approach and highlight the importance of long-term follow-up.

Descriptors: Lipoma; Mouth Neoplasms; Mouth.

INTRODUCTION

Lipoma is a benign tumour of mesenchymal origin consisting of mature adipocytes. This benign tumour, although common in the chest and extremities, it is quite rare in the oral cavity and oropharynx1, ranging from 1-4% of all benign oral tumours. Lipoma usually presents itself with uncertain aetiology and pathogenesis, but it is also described a hormonal and inflammatory influence and also hereditary factors1. The main clinical aspect is as a nodular mass of soft consistency of pedunculated or sessile base, with smooth and gelatinous appearance, well defined and asymptomatic, with slow growth rate, not ulcerated and that, in some cases, may present a fibrous capsule. The intraoral sites most affected are floor of the mouth, lip, tongue and buccal mucosa1. The diagnosis is primarily clinical, although imaging may be a helpful tool. Some of the histological variances of benign lipomas are fibrolipoma, osteolipoma, angiolipoma, condrolipoma, intramuscular and atypical lipoma1.

CASE REPORT

Female patient, leucoderma, 61 year old, attended the Department of Oral and Maxillofacial Surgery of Erasto Gaertner Hospital reporting an injury in the buccal mucosa of mandible, bilateral. The patient reported that 10 years before had a similar injury in the same region, which was surgically treated. Intraoral examination revealed the presence of nodular lesions in the mandible buccal mucosa, with approximately 30 mm on the left side and 10 mm on the right side, flaccid, painless and with smooth surface (Figure 1).

Figure 1: Initial intraoral aspect.
CT scan showed a hypodense area on the mental region (Figure 2). Excisional biopsy of the mass through an intraoral incision under general anaesthesia showed a soft, yellow mass firmly adherent within the muscle. Histological examination showed proliferation of mature adipocytes permeated by muscle fibers, with absence of mitosis and atypical cells (Figure 3). The histopathological diagnosis was intramuscular lipoma.

DISCUSSION

Intramuscular lipoma emerges inside skeletal muscle fibres at different locations, i.e. temporal and masseter muscle, mainly during middle to late adulthood. Although reported as an sporadic lesion, may be, in some cases, related inherited disorders as multiple lipomatosis, Gardner syndrome, Cowden syndrome, and Madelung disease. On the case reported in this paper, there was no such relation observed. The differential diagnosis of intramuscular lipoma includes specially a well-differentiated liposarcoma. Again, in the present case, it was not observed lipoblastic proliferation, cellular pleomorphism or mitoses, which would raise the hypothesis of a liposarcoma. Its recurrence rate has been reported to range between 19 and 62.5%, usually happening 6-7.5 years after the excision, which highlights the rarity of the case reported here, that showed recurrence 10 years after surgery. No malignant changes have been reported for recurrent intramuscular lipomas. This high recurrence rate cited above, according to the literature, is mainly due to the difficulty of achieving complete surgical excision, since the masses are deeply situated, not encapsulated, and exhibit an infiltrative growth pattern. Even though a wide recurrence rate is described on the literature, only two cases of recurrent intramuscular lipoma on the oral cavity have been found in database. One can discuss whether it is a true benign lesion, since it presents signs that suggest malignant behaviour, as the high recurrence rate and infiltration of adjacent musculature, already mentioned in this paper. Scolozzi et al. performed a cytogenetic analysis of an intramuscular lipoma of the masseter muscle and did not detect any significant genomic amplification, which prompted the confirmation of the benign nature of the tumour. Being so, one may conclude that oral intramuscular lipoma is a pathology that required a more aggressive surgical excision in order to remove it completely, avoiding the risk of recurrence that may occur even a long time after the first treatment requiring long-term follow-up.

REFERENCES

CONFLICTS OF INTERESTS

The authors declare no conflicts of interests.

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Received 02/08/2017
Accepted 31/08/2017