recidivas son infrecuentes, y cuando se producen se debe, en la mayoría de los casos, a una enucleación o esclerosis incompleta de la lesión.

En nuestro caso un riguroso curetaje permitió la correcta osificación de la zona tal y como hemos podido ir comprobando con el seguimiento clínico y radiológico de la paciente.

**Conclusiones**

El oral pulse granuloma es una lesión poco frecuente que se asemeja clínica y radiológicamente a otras lesiones de los maxilares como pueden ser el ameloblastoma, el mixoma o el fibromixoma.

Para pensar en esta afección es muy importante tener en cuenta antecedentes de cirugía oral, procedimientos odontológicos o traumatismos locales previos en pacientes con pobre higiene bucodental.

Ante la inespecificidad de su clínica y radiología, es de gran importancia un estudio histopatológico exhaustivo de la lesión antes de plantearse cualquier tipo de intervención local más agresiva.

**Responsabilidades éticas**

**Protección de personas y animales.** Los autores declaran que para esta investigación no se han realizado experimentos en seres humanos ni en animales.

**Confidencialidad de los datos.** Los autores declaran que en este artículo no aparecen datos de pacientes.

**Derecho a la privacidad y consentimiento informado.** Los autores declaran que en este artículo no aparecen datos de pacientes.

**Agradecimientos**

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**Leiomyosarcoma of the tongue: A rare case report**

**Leiomiosarcoma de la lengua: un caso clínico raro**

**Introduction**

Leiomyosarcomas is rare tumour that arises from smooth muscle cells. They account for 7% of soft tissue sarcomas and leiomyosarcoma in the head and neck region account for only 3–10%, and less than 0.1% develops in the oral cavity. It has been reported that oral leiomyosarcoma shows a bimodal peak in the third, sixth and seventh decades of life. Although a possible association with trauma, estrogenic stimulation, ionizing radiation and Epstein–Barr virus has been suggested, its underlying aetiology remains uncertain. This article describes an additional case of oral leiomyosarcoma affecting the tongue related to ionizing radiation.
Case presentation

A 41-year-old male patient who two years previously had undergone radiotherapy and chemotherapy because of a Cavum Carcinoma, the patient was referred to the maxillofacial department on October of 2014 because a rapidly increasing lesion on the on the right side of the tongue was noticed at the follow-up. Clinical examination showed a well-circumscribed firm, submucosal mass on the right side of the tongue (Fig. 1). No cervical lymphadenopathy was palpable.

As control of his Cavum Carcinoma the patient had a PET/CT scan that only reports a focal uptake on right side of the tongue.

An incisional biopsy was repeated on January 2015 after a first negative result; the histopathology showed an infiltrating spindle cell tumour that stained for smooth muscle actin. The immunohistochemistry stained positively with smooth muscle actin, desmin, and caldesmon (Fig. 2).

Fig. 1 – Clinical photograph showing the mass within the right side of the tongue.

Fig. 2 – Microscopic examination showing interlacing fascicles of spindle-shaped cells (haematoxylin–eosin stain, original magnification, ×400).

Fig. 3 – (a) Medial sural perforator artery, (b) immediate post-operative reconstruction and (c) postoperative follow up, good cosmetic outcome with a medial sural perforator flap and no recurrence.
He was treated with hemiglossectomy. It was reconstructed with a medial sural perforator flap, and no neck dissection was performed on March of 2015 (Fig. 3a–c). The patient had a good functional and cosmetic result with no signs of recurrence in subsequent follow-ups, last one on July 2016.

Review of literature

The cases reported in the literature are summarized in Table 1. We included Oral LMS that only affected the tongue; publish in the English and Spanish literature with all the variables included in the table. The exclusion criteria were LMS not affecting the tongue and publication with incomplete medical reports.

Discussion

Intraoral leiomyosarcoma, particularly in the tongue are extreme rare. They arise from smooth muscle cells.\textsuperscript{1,2,5-11} Intraoral leiomyosarcoma occurs more frequently in males.\textsuperscript{4} Clinically the tumour presents as a well-circumscribed painless mass. The correct diagnosis is only made following a definitive histological examination and confirmed by immunohistochemistry.\textsuperscript{3,6,8,10,11} Immunohistochemical staining has consistently shown positive for desmine, vimentin, and smooth muscle actin, whereas a negative response to S100 protein and the cytokeratins is usually found.\textsuperscript{1-7}

 Leiomyosarcoma behaves as an aggressive tumour, and has a tendency to infiltrate surrounding tissues. The more frequent distant metastases of leiomyosarcoma are the head and neck region,\textsuperscript{2-5} in 15% of the cases.\textsuperscript{5,3} Metastases can also spread to the regional lymph nodes, and the lung and the liver are prediction sites for distant metastases.\textsuperscript{2-5}

The cause of leiomyosarcoma remains unknown, although cases associated with trauma, estrogenic stimulation, ionizing radiation and Epstein–Barr virus have been suggested.\textsuperscript{4,5,9,10}

The treatment consists of wide surgical excision with regional lymph node dissection as required, with the goal of histologically clear margins. This determines the true course of the disease and the long-term prognosis.\textsuperscript{2,5,7-11}

Chemotherapy is generally reserved for palliative cases, such as inoperable tumours or metastatic spread.\textsuperscript{2,8,10}

The case that we report of a primary intraoral leiomyosarcoma it could be induced by ionizing radiation. It is essential that the clinician be familiar with the lesion, and anticipates the possible presence of this disease and makes early diagnosis. Treatment of primary leiomyosarcoma is radical tumour resection with histologically clear margins.

Ethical disclosures

Protection of human and animal subjects. The authors state that no experiments were performed on human beings or animals as part of this investigation.

Confidentiality of data. Authors state they have followed the protocols of their workplace about the data publication of patients.

Right to privacy and informed consent. Authors have obtained the informed consent from the patients or subjects referred to
in the article. This document is in possession of the corresponding author.

Conflict of interest

The authors declare that there are no conflicts of interest.

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Giant trabecular type juvenile ossifying fibroma of the maxilla – A case report

Fibromata osificante gigante trabecular del maxillar de tipo juvenil. Presentación de un caso

Introduction

Juvenile ossifying fibromas (JOF) are rare, locally aggressive tumours with high potentials of recurrence. The present case is that of a JOF involving the maxilla causing facial deformity, proptosis and visual impairment in a 12-year-old child which was managed successfully by surgical excision via transfacial approach, with review of the literature.

Case report

A 12-year-old female child presented to our outpatient department with history of a progressive right sided facial swelling, causing facial deformity and proptosis for the past four years. The swelling pushed the right eye outwards and upwards, causing a painless, progressive diminution of vision and watering in the right eye. There was also a history of progressive nasal obstruction initially in the right nostril, which then went on to involve the left nostril (Fig. 1 A and B). At presentation, the patient could only breathe through the mouth due to complete obstruction of both nostrils. She also gave a history of one episode of epistaxis which required hospital admission and conservative management. The past medical record of the child revealed that two years ago, the patient had undergone a biopsy of the mass at an outside hospital and diagnosed as having fibrous dysplasia. On examination the swelling was of the size 18 cm × 15 cm, extending superiorly to the right eyebrow, displacing the right eye supero-laterally; inferiorly till the angle of the mandible; medially till the left side of the nasolabial fold; and laterally till the right zygomatic arch. The swelling was non-tender, with no local rise in