CASE REPORT

Lipoma of the oral mucosa: a case report

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(Received 30 December 2010; accepted 6 June 2011)

Keywords
Lipoma, oral mucosa, palate, tissue lesion.

Abstract
Lipoma is a common tumor of soft tissue. Its location on the oral mucosa is rare, representing 1% to 5% of benign oral tumors although it is the most common mesenchymal tumor of the trunk and proximal portions of extremities. Lipoma of the oral cavity may occur in any region. The buccal mucosa, tongue, and floor of the mouth are among the common locations. The clinical presentation is typically as an asymptomatic yellowish mass. The overlying epithelium is intact, and superficial blood vessels are usually evident over the tumor. Other benign connective tissue lesions such as granular cell tumor, neurofibroma, traumatic fibroma and salivary gland lesions (mucocele and mixed tumor) might be included in differential diagnosis. We present a case of oral lipoma in an unusual location in the left palatal region opposite to premolars which is rare in the literature.

Introduction
Lipoma is defined as a benign, slow growing neoplasm composed of mature fat cells (Rajendran and Sivapathasundharam, 2007). Lipomas are common tumors in the human body (Del Castillo Pardo de Vera et al., 2004; Chidzonga et al., 2006) but are less frequent in the oral cavity, comprising no more than 1-5% of all neoplasms (Del Castillo Pardo de Vera et al., 2004; Bandeca et al., 2007; Trandafir et al., 2007). They are commonly present as slow growing asymptomatic lesions with a characteristic yellowish color and soft, doughy feel in the buccal mucosa, floor of the mouth and tongue. They usually occur in the fourth and fifth decades of life with no sex predilection. Some studies, however, have shown a male predominance (Lawoyin et al., 2001; Bandeca et al., 2007; Adoga et al., 2008). Half of oral lipomas are in the cheek and the remainders were found in the tongue, floor of the mouth, lips, palate and gingival mucosa (Vindenes, 1978). They are benign mesenchymal neoplasms composed of fat cells usually surrounded by a thin fibrous capsule (Fregnani et al., 2003). The size of tumor depends on the location but rarely exceeds 25 mm in diameter (Rapidis, 1982). Lipomas are usually asymptomatic until they grow to large size and may interfere with speech and mastication (Keskin et al., 2002; Chidzonga et al., 2006). Although malignant counterpart of this tumor, liposarcoma is another common soft tissue neoplasm, but its occurrence in oral cavity is rare (Favia et al., 2001).

Case report
A sixty three year old male patient reported with the complaint of swelling and discomfort in the left palatal region opposite to premolars (24 and 25) since four months. The swelling was soft in consistency, non painful and measuring about 2.0x2.3cm in diameter (Fig. 1). The swelling was a soft pedunculated mass with a thin stalk attached to the base. Since there was no bony attachment at the base, the radiograph was not taken. Complete surgical excision was done. Macroscopically the resected mass was yellowish in colour and soft in consistency (Fig. 2). Histopathological examination disclosed the presence of keratinized stratified squamous epithelium with mature lipocytes and demonstrated a thin
fibrous capsule (Fig. 3). A distinct lobular arrangement of the cells was seen (Fig. 4). Patient was recalled after one week for suture removal. The wound had healed uneventfully. Patient was followed up for six months without any signs of recurrence.

Discussion
To the best of our knowledge, only one case of lipoma in the hard palatal mucosa has been reported in the literature (Hoseini et al., 2010). Lipomas are the most common mesenchymal tumors especially in trunk and proximal portions of the extremities but they are rare tumors of oral cavity (Del Castillo Pardo de Vera et al., 2004; Chidzonga et al., 2006; Bandeca et al., 2007; Trandafir et al., 2007). The present case was rare because of its occurrence in the palate. The lipomas present as slow growing asymptomatic lesions with yellowish color and soft, doughy feel, generally with no gender predilection. Other connective tissue lesions such as granular cell tumor, neurofibroma, traumatic fibroma, and salivary gland lesions (mucocele and mixed tumor) might be included in the differential diagnosis (Lawoyin et al., 2001; Bandeca et al., 2007; Adoga et al., 2008). Lipomas are well-defined in clinical examinations such as CT scan and MRI (Sakai et al., 2006) which was similar to our case with respect to well defined margins. In some cases, they can be present as fluctuant nodules (Tan and Singh, 2004). Some other lesions should be considered in the differential diagnosis such as lymphoepithelial cysts, epidermoid and dermoid cysts (Anavi et al., 1995). They may present as solitary or multiple lesions (Del Castillo Pardo de Vera et al., 2004; Chidzonga et al., 2006). Their mean size is 20 mm (Darling et al., 2002) as compared to our case where it was 2x2.3cm. Microscopically, it is difficult to differentiate...
between lipoma and normal adipose tissue. The microscopic appearance of a circumscribed but not encapsulated aggregate of mature adipocytes with large clear cytoplasm in the absence of vascularity is the diagnostic features of a classical lipoma (Adoga et al., 2008). Our case showed the presence of mature lipocytes arranged in lobular pattern and demonstrated a thin fibrous capsule. Microscopically, the differential diagnoses are angiolipoma, liposarcoma and normal soft fatty tissue (Vindenes, 1978). Lipomas of oral cavity are rare, 50% of them are in buccal mucosa and less common sites are tongue, floor of the mouth and lips. Lipomas of palate are rare and most of them are developmental lesions. But true neoplasms of fat cells are rare in this place (Ebling and Wagner, 1967; Miles et al., 1984). Surgical excision is the choice of treatment. Recurrence is reduced by wide surgical excision (Del Castillo Pardo de Vera et al., 2004) as followed in this case report. Infiltrating lipomas are difficult to extirpate and are liable for recurrence (Chidzonga et al., 2006; Adoga et al., 2008).

References