Case Report

An unusual case of large epidermoid inclusion cystic lesion in the floor of the mouth causing double chin appearance

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Introduction

Epidermal inclusion cyst is painless, rare slow-growing swelling in midline due to the inclusion of ectodermal tissue into unusual sites. These cysts are covered under the teratomas category due to the absence of skin appendages within their squamous epithelium-lined thin walls. Testes and ovaries are the common sites of occurrence of epidermal cysts [1]. In the head and neck region these are mostly seen in the lateral third of the eyebrows. Epidermoid cysts comprise less than 0.01% of all intraoral cysts and are even less frequently seen as compared to dermoid cysts of the oral cavity [1,2]. Frequently, reported in infancy but in adults can be seen in third to fifth decades of the life. Clinically these can be classified depending upon their location as supramylohyoid and inframylohyoid in relation to the mylohyoid muscle, or medial and lateral to the midline of the neck [3,4]. These generally do not cause discomfort, but with an increase in size and elevation of the tongue, it can cause dysphasia, dyspnoea, and a double chin” if left untreated [4,5]. This article describes a 51-year-old male patient with swelling in the floor of the mouth and submental region with double chin appearance treated by an extraoral approach under general anaesthesia.

Case report

A 51-year-old male patient came to our unit with a painless swelling on the floor of the mouth on left side from 3–4 months. Extraoral, a small plunging bump in the submental region was present, which did not disappear on protrusion of the tongue. The swelling was soft and nodular, giving a double chin appearance. On intraoral examination, a pinkish white bulge of 3x3 cm in the left sublingual region protruding upward raising the floor of the mouth was noted. On palpation, it was soft, spongy, cystic in nature, compressible with palpable margins, and mobile on bimanual palpation. Tongue movements were normal on the right side and slightly reduced on the left side. No carious tooth and cervical lymphadenopathy were present. Computed tomographic (CT) imaging showed a large 3x4 cm hypodense, non-enhancing cystic lesion in the floor of the mouth, and submental region without lymphadenopathy. Excision of the lesion was done extra-orally under general anaesthesia through a transverse incision in the submental area, and a lesion of 3x4cm soft-lined dumbbell-shaped was separated from surrounding tissue by blunt dissection and removed in toto. The histopathological features of the specimen showed a cyst lined by stratified squamous epithelium with granular layer and keratin flakes. The sub epithelium showed mild lymphomononuclear infiltrates and few congested capillaries, concluding epidermal inclusion cyst. Postoperative recovery was uneventful up to six months of follow-up without any complications and recurrence Figures 1,2.

Discussion

Epidermoid cysts are rarely seen compared to dermoid cysts in the head and neck region and are unusual and represent less than 0.01% of all oral cavity cysts [1]. Mayo Clinic’s study by Erich and New found only 1.6% of cases of dermoid cysts in the oral cavity in their 1459 pathology cases [3,4]. These are
an epidermoid cyst. The study of the content of these cysts and cells present in the cavity [3,5]. Aspiration cytology also provides an important clue regarding the content of cysts and cells present in the cavity [3,5]. The final diagnosis is always based on the histopathological examination of the entire lesion.

Management depends upon the size and location of the cystic lesion. An intraoral approach is conserved for small and supramylohyoid variety cysts. Clinically these cysts reported are nonpainful, slow-growing swelling in the floor of the mouth, sublingual, submandibular, and submental region [8]. These swelling are fluctuant, without pulsations, and raised the floor of the oral cavity when presents above the mylohyoid muscle. These can also cause dysphasia, dyspnea, and double chin when increased in size.

Diagnosis is usually made by clinical examination, aspiration, ultrasound, CT, and magnetic resonance imaging to see the extent of the lesion and type of lining. Fine needle aspiration cytology also provides an important clue regarding the content of cysts and cells present in the cavity [3,5].

References