Case Report

An Unusual Case of Swelling of the Floor of the Mouth Revealing an Epidermoid Cyst: A Case Report

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Submitted: 14 August 2020; Approved: 30 August 2020; Published: 31 August 2020


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ISSN: 2638-9355
INTRODUCTION

Dermoid and epidermoid cysts are a benign disease that may occur in any part of the body. They represent 1.6 to 6.9% of all cysts in the head and neck area [1]. Their presence in the oral cavity is rare because the two entities account only 0.01% of all oral cysts [2]. In the oral cavity, the epidermoid cyst is half as frequent as the dermoid cyst [2]. The diagnosis can be evoked clinically, however the anatomopathological examination is necessary for its confirmation. Epidermoid cysts are characterized by a painless and slow growth. Without treatment, they can grow to a large size that can lead to the life-threatening appearance of dysphagia or even dyspnea [3]. Treatment is surgical, and the approach differs according to the location and size of the lesion.

We report an unusual case of large epidermoid cyst of the floor of the mouth and review the relevant literature.

CASE REPORT

A 20-year-old boy presented to the ENT (Ear, Nose and Throat) consultation department for swelling of the floor of the mouth just below the tongue which has been evolving since birth. Insidious at first, it started as a small pea-sized swelling and gradually increased in size. In addition, the patient presents a difficulties to swallowing, chewing and phonation.

Examination of the oral cavity, revealed a sublingual swelling measuring 5 cm occupying the entire floor of the mouth. It displace the tongue toward the palate, thus giving the appearance of a “second tongue” (Figure 1). The mobility of the tongue was preserved. The mucosa, sublingual glands and salivary caruncles were normal. Upon bimanual palpation, the mass was soft, depressed, painless, without adhesions. There was no cervical lymphadenopathy and no history of surgery or trauma to the oral cavity.

Ultrasoundography showed a cystic formation in the floor of the mouth with a finely echogenic content, well limited, measuring 67x 52 mm (Figure 2), not vascularized with color Doppler, and the rest of the examination is without particularity. However, the Magnetic Resonance Imaging (MRI) was not realized because of financial reasons. Clinical and paraclinical findings suggest a mucoid cyst of the sublingual gland (ranula).

After a preanesthetic check-up, surgical removal was decided under general anesthetic. The intubation was done by orotracheal approach. An incision was made on the ventral side of the tongue measuring 3 cm. After detachment of the mucous membrane, dissection was continued essentially with the finger. Thus, the cyst was completely extracted (Figure 3). The largest diameter of the cyst was 6 cm. The postoperative recovery period progressed uneventfully. The Histopathological examination revealed a cystic formation lined by keratinized stratified squamous epithelium without any evidence of dermal appendages (Figure 4). So, the diagnosis of epidermoid cyst was made. Following 12 months of monitoring, there was no recurrence and no sequelae.

DISCUSSION

The epidermoid cyst is a benign tumor, included in the group of dermoid cysts. It is a rare tumor; it represents 1.6 to 6.9% of all cysts in the head and neck area [1]. However, in the floor of the mouth the epidermoid cyst represents 1.6% of cervico-facial dermoid cysts [4]. However, other locations have been reported in the literature, namely the tongue, lips and oral mucosa [5]. Concerning the physiopathology of the epidermoid cyst of the oral floor, there are two theories in function if the cyst is congenital or acquired. The congenital cyst is the result of trapped ectodermal tissue of the first and second branchial
The histopathological examination revealed a cystic formation towards the palate and difficulties in mastication, speech or above the mylohyoid muscle, responsible for a displacement of the even a respiratory gene, and the second group develops below the floor of the mouth to guide the surgical approach, as well as play an essential role in the anatomical localization of the mass in Tomography (CT) scans and Magnetic Resonance Imaging (MRI) which required emergency therapy.

In our observation, in addition to the increase in the size of the mass, dysphonia and dyspnea are rare and take a long time to appear [11]. In our observation, the tumor has evolved from toddlerhood to a size of 67x 52 mm. Usually, patients consult for painless swelling [10]. In our observation, the tumor has evolved from toddlerhood to a size of 67x 52 mm. Usually, patients consult for painless swelling of the floor of the mouth. Signs of complications such as dysphagia, dysphonia and dyspnea are rare and take a long time to appear [11]. In our observation, in addition to the increase in the size of the mass, the patient presented a gene to swallowing, chewing and phonation which required emergency therapy.

Paraclinical examinations such as ultrasonography, Computed Tomography (CT) scans and Magnetic Resonance Imaging (MRI) play an essential role in the anatomical localization of the mass in the floor of the mouth to guide the surgical approach, as well as eliminating other differential diagnoses [12]. MRI is the examination of choice for the diagnosis of cystic mass and the visualization of oral floor anatomy thanks to its excellent soft-tissue contrast [12,13]. The anatomical classification divides the epidermoid cysts on the floor of the mouth into two groups: the first group develops above the mylohyoid muscle, responsible for a displacement of the tongue towards the palate and difficulties in mastication, speech or even a respiratory gene, and the second group develops below the mylohyoid muscle responsible for a sub-mental or sub-mandibular lesion [12,13].

Dermoid cysts of the floor of the mouth should be differentiated from other midline swellings of the oral cavity such as Ranulas, Thyroglossal duct cysts, Branchial cleft cysts and oral abscess [12]. Because of lack of financial means, our patient only had a cervical ultrasonography which oriented the diagnosis towards ranula of the oral floor.

However, the specific histological type can only be confirmed by histopathological examination after surgical excision. There are three histological variants, namely: Dermoid cyst, epidermoid and teratoid. The cavity of the dermoid cyst is lined by a keratinized epithelium and has superficial skin appendages. However, a simple squamous epithelium without skin appendages lines the epidermal cyst. The teratoid cyst consists of tissue from all three germinal layers [14].

Total surgical excision is a treatment of choice for epidermoid cyst which can be performed by the intra-oral or extra-oral approach or a combination of both depending on the size and location of the cyst [15]. Generally, the extra-oral approach is performed in case of a large cyst [16]. In our observation, the excision was performed by intraoral approach under general anesthesia. The prognosis is good after an absolute surgical excision.

Recurrences are unusual and the risk of malignant transformation is described in the literature but remains rare [17]. However, long-term follow-up is recommended.

CONCLUSION

- Epidermoid cyst of the floor of the mouth is a benign tumour which can cause dysphonia, dysphagia or even dyspnea in the case of a large lesion.
- Clinical and paraclinical data guide the diagnosis but its confirmation is made by anatomopathological examination of the excisional specimen.
- Diagnostic imaging help in the correct diagnosis, but its confirmation is made by anatomopathological examination of the excisional specimen.
- Surgical excision is the ideal treatment.
- Although the risk of recurrence and malignant transformation is low, long-term follow-up is recommended.

REFERENCES