Epidermoid cyst of palatine tonsil, a rare location: one case report

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Abstract: Epidermoid and dermoid cysts are benign, developmental lesions that can be encountered anywhere in the body. Literature search does not report any epidermoid cyst location in the palatine tonsils. However, we encountered a case of a 34-year-old female patient who underwent a tonsillectomy for diagnostic purposes because of an epidermoid cyst arising from the tonsil which was confirmed by histology.

Keywords: Dermoid cyst, epidermoid cyst, palatine tonsil

I. Case Report

A 34-year-old female came to ENT outdoor of our hospital with complaint of swelling in the neck past two years with difficulty in swallowing. Swelling was progressively increasing in size but was painless and non-discharging. ENT examination showed marked hypertrophy of the right tonsil in comparison with the contralateral one, and a smooth-surfaced mass near the upper pole of the tonsil [Figure 1]. No neck lymph nodes were palpable. A right tonsillectomy was performed for diagnostic purposes after having obtained the patient's informed consent. The excised material was examined by light microscopy following hematoxylin and eosin staining. The tonsillar tissue, which included microscopic reactive follicles, showed cystic cavities. Hematoxylin and eosin stained sections studied showed cyst lined by squamous epithelium and infiltration of wall by chronic inflammatory infiltrate and lumen was filled with keratin flakes. [Figure 3]. These findings justified a diagnosis of Epidermoid cyst localized in the tonsil. The patient was discharged on the first post-operative day in excellent condition and on follow up the patient was absolutely healthy.
II. DISCUSSION

Epidermoid cysts are benign lesions that can develop anywhere in the body. They generally appear in areas where embryogenic elements fuse.[8] They can be classified as being either congenital or acquired. There is no developmental or histologic difference between the two.[9] Dermoid cysts have been classified by Meyer
in 1955 as true dermoid cysts, epidermoid cysts and teratoid cysts.[10] A true dermoid cyst is lined with keratinized epithelium and contains skin appendages that could be described as hair follicles or sebaceous glands. An epidermoid cyst, on the other hand, is lined with simple squamous epithelium and its wall does not contain fibrous structures or skin appendages. A teratoid cyst may contain tissues ranging from simple squamous epithelium to ciliated cylindrical respiratory epithelium; its contents may be of ectodermal, mesodermal or endodermal origin.[11,12]

A theory widely accepted today on the etiology of these lesions is their development from the epithelial remnants remaining isolated during the closure of the first and second branchial arches in the midline. Another theory is the development of cysts from abnormal inclusion of cells during surgery or trauma.[4] Even though the fact that our patient was aged 42 years would seem to favor the latter mechanism, she presented no history of surgery or trauma.

Epidermoid and dermoid cysts can be in any location of the body. A study on 1495 cases by New and Erich shows that their location is most frequently anal (44.5%) and ovarian (42.1%).[12] Cases of cysts in the head and neck area are only 7% of the total body.[2,3] In a study of 103 patients with diagnosis of epidermoid and dermoid cyst of the head and neck, 46.6% of these were orbital, 23.3% buccal and submental, 12.3% nasal, 10.7% cervical and 2.9% labial.[1] Various publications also report epidermoid cysts of the oral cavity in the soft palate, the uvula and the sublingual area.[1,9,13] However, we could not find a report of epidermoid cyst in a tonsil.

The male/female ratio of the patients with a diagnosis of epidermoid cyst is 3/13 and the age range of the large majority is 10-35 years.[13] Especially the latter fact leads to the thought that cyst formation could be stimulated by hormonal influence during puberty.[11] The fact that our patient was a 42-year-old female would also support such an idea.

**Treatment for these lesions is surgical excision of the cyst.**

While the expansion of lymphoid follicles within the tonsil is the most frequent cause of their hypertrophy, asymmetric hypertrophy must lead to the suspicion of diseases like tonsillar tumor, atypical infection, granulomatous disease or tumors of the parapharyngeal area. In a series of 49 patients with asymmetrical tonsils with normal neck examination and normal overlying mucosa, only two (4.8%) cases in infection, granulomatous disease or tumors of the parapharyngeal area. In a series of 49 patients with asymmetrical tonsils with normal neck examination and normal overlying mucosa, only two (4.8%) cases in

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