ABSTRACT

Pleomorphic adenomas are most common benign tumor of the major salivary gland, mainly found in parotid gland. Pleomorphic adenomas may also occur in the minor salivary glands of the hard and soft palate. Few cases are also diagnosed in various parts of pharynx and larynx. Intra nasal pleomorphic adenomas can arise either from septum or lateral nasal wall. They are very rare entity and occasionally misdiagnosed due to their atypical histopathology. We present a rare case of pleomorphic adenoma diagnosed in middle-aged female originating from lateral wall of right nasal cavity.

Keywords: Pleomorphic adenoma, Nasal cavity, Excision, Endoscopic.


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Conflict of interest: None declared

INTRODUCTION

Salivary gland tumors constitute about 3% of all body neoplasms.1,2 The majority of these tumors are benign and about 70% of them are pleomorphic adenomas. Minor salivary glands are involved in only 6.5 to 8%,3,4 and mainly involve hard and soft palate; however, pleomorphic adenoma of the nasal cavity are rare.5-7

In this paper, we report a case of pleomorphic adenoma of lateral wall of right nasal cavity treated successfully by endoscopic resection.

CASE REPORT

A 35 years old female complained of progressive right nasal obstruction with mucoid rhinorrhea and occasional nasal bleeding for last 5 months. On anterior rhinoscopy, red fleshy polypoid mass was filling right nasal cavity completely with deviation of anterior part of septum left side. Other routine laboratory examinations were normal. The contrast-enhancing computed tomography (CT) scan of nose and parasal sinuses showed homogenous mass filling the anterior aspect of right nasal cavity and displacing septum to left side with minimal superior extension into anterior ethmoidal cells (Figs 1A and B). The right maxillary sinus was normal.

Wide excision of mass was performed endoscopically under general anesthesia. During surgery, the soft, pinkish mass was found to be attached to the lateral nasal wall (Fig. 2). After confirming its attachment, the mass was cauterized at the base and removed from nasal cavity. Hemostasis was achieved, and nasal packing was done. The histopathological examination showed features of salivary pleomorphic adenoma (Figs 3A and B). After one year of follow-up, no recurrence seen.

DISCUSSION

The most common tumors of the major salivary glands are pleomorphic adenomas, but in rare cases, they can occur in minor salivary glands located in respiratory tract. Denker and Kahler were the first to report the case of pleomorphic adenoma in nose.8 Nasal cavity is the most favored site for development of pleomorphic adenoma in upper respiratory tract followed by maxillary sinus and nasopharynx.9 Nasal septum is the most common site of origin followed by lateral nasal wall. Pleomorphic adenoma of nose is more common in third to sixth decade and more frequently seen in females. Typical presenting complaints include unilateral nasal obstruction and epistaxis seen in 71 and 56% respectively. Mass in the nose, nasal swelling, epiphora and mucopurulent rhinorrhea are other presenting features.10 Histologically, pleomorphic adenomas are characterized by epithelial tissue mixed with tissues of mucoid, myxoid or chondroid appearance. Nasal pleomorphic adenomas are characterized by predominant epithelial component and scanty stromal tissue and thus, histologically, they resemble aggressive epithelial tumors and therefore often misdiagnosed.2 The contrast enhancing CT scan of the nose and parasal sinuses reveals a lobulated soft tissue density mass arising from either septum or lateral wall of nose.

Endoscopic resection of tumor is treatment of choice now days as this technique causes less morbidity, hospital stay,
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Figs 1A and B: Serial coronal CT scan showing homogeneous mass filling the anterior aspect of right nasal cavity and displacing septum to left side

Fig. 2: Intraoperative picture showing pinkish soft mass in anterior nasal cavity attached to lateral nasal wall

Figs 3A and B: Histopathological picture showing epithelial/myoepithelial areas punctuated by myxochondroid areas

avoids external scar and unnecessary excessive resection. To avoid recurrences, the tumor must be removed with histologically tumor negative margins as recurrence rate ranges from 2.4 to 7.5%. Recurrence is thought to be due to detachment of small projections through the incomplete capsule or tumor spillage during the operation.

Prognosis for intranasal pleomorphic adenoma is better than those in other unusual sites in upper respiratory tract, as they show early symptoms leading to an early diagnosis and management.

Neoplasms arising from nasal septum have more chances of malignant transformation than other sites in nasal cavity.
Malignant pleomorphic adenoma can metastasize to distant organs, such as bone, lung, regional lymph nodes and liver.

REFERENCES