Maxillary Sinus-Based Giant Cell Bone Tumor

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Abstract

Giant cell tumors are rare benign tumors of the head and neck. The biggest problem in these tumors is high recurrence rates. A 19-year-old patient who presented to our outpatient clinic with a facial swelling was found to have a fully filled mass in the maxillary sinus.

Keywords: Bone tumor, giant cell, maxillary sinus, surgical excision

Case Report

A 20-year-old female patient was admitted to our outpatient clinic with swelling on the right cheek for 3 months. The patient did not describe nasal bleeding, nasal blow and nasal obstruction. There was no significant feature in the patient’s medical history. Physical examination revealed a mild swelling in the right maxillary region, and palpation was not present. Direct nasal endoscopy revealed a mass in the right nasal cavity that completely filled the bottom of the lower turbinate (Fig. 1). There were no pathological findings. In the patient's facial MRI study, heterogeneous hypointense in T1 and T2A sequences starting from the right half of the maxilla to the maxillary sinus and filling the sinus, extending from the medial section of the maxillary sinus to the right half of the nasal cavity and narrowing the posterior segment of the nasal cavity. A mass lesion was observed with irregular lobulated contoured solids (Fig. 2, 3). The patient underwent caldwell-luc operation under general anesthesia. It was observed that the peropial mass completely filled the right maxillary sinus and destructed the anterior wall of the maxillary sinus, and the mass which...
was observed in red, purple, spongy and highly fragile structure was completely removed by curette and lap (Fig. 4), he was repaired. There were no postoperative complications. The material sent to the pathology was reported as ‘giant cell bone tumor’. The patient's postoperative para-

nasal sinus tomography revealed suspicious lesions on the sinus base at the 8th month postoperatively (Fig. 4). These lesions were followed.

Discussion

Giant cell tumor is a 19-year-old fully described, occasionally limited, occasional, localized mass, forming osteoid halo around the lytic lesion in the bone.[7,8] The etiology of these masses is highly controversial. Hemorrhage and inflammatory factors are the factors that are accused of traumatic bone metaphysis. The real cause has not yet been found, but many researchers believe that after they have formed in the body, they have begun to spread out of the same size and mold for a long time.[9,10] In our case, there was no history of foreign body, operation or trauma to suggest any reparative condition.

The symptoms of giant cell tumor may be due to mass effect. In the literature, symptoms such as dysphagia, numbness, headache, double vision, and nosebleeds were defined.[11,12]
Giant cell tumor of head and neck is mostly seen in young women (before 30 years of age) and 1/3 of the lesions are found in 1/3 of the maxilla in the mandible.[13] In our case, there was a rarely localized maxillary sinus involvement. Our case was female and her age was consistent with the literature.

Giant cell tumors are radiologically small, asymptomatic, well-circumscribed, radiologically open to the middle, swollen like dental cysts; Clinically, the patient may vary from radiographically oriented to light-colored masses. In our case, a mass lesion with irregular lobulated contoured solids was observed radiologically in the right maxillary sinus.

The main principle in the treatment of giant cell tumor is the complete removal of the mass. Recurrence of the tumor after surgery leads to difficulties in treatment. Because of the younger patient group, limited surgery is the first choice.[8,15] In our case, we operated the Caldwell-luc incision with the right maxillary sinus and did not need to remove the teeth conservatively.

As a result, giant cell tumor should be kept in mind in the first 20 years of life especially after the trauma without any trauma or trauma.

Disclosures
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References