Primary aneurysmal bone cyst of maxillary sinus-report of a rare case
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Citation

Abstract
Aneurysmal bone cyst (ABC) is a non-neoplastic expansile bone lesion that is common in the long bones. Only 2% of these occur in the head and neck region. Mandible is usual site of involvement in facial skeleton Their occurrence in the maxilla is rare. Our case report describes a primary aneurysmal bone cyst (ABC) of the maxillary sinus in a 18-year-old female. The patient presented with progressive, rapidly growing swelling of the left cheek. Imaging studies showed a heterogeneous contrast enhancing mass expanding the left maxillary sinus. The lesion was resected endoscopically and histological examination revealed aneurysmal bone cyst.

INTRODUCTION
Aneurysmal bone cyst (ABC) is described as a localized and quickly expansile benign tumor, which can reach a considerable size. ABC is very rare among all the cystic lesions that can be found at the mandible or the maxilla.\textsuperscript{1,2} We report the CT and morphological findings of ABC of the maxillary sinus in a 18 year old female. It adds one more aspect in diversity of clinical and biological behavior of ABC in maxillofacial region.

CASE REPORT
A 18 year old female patient presented with a progressively increasing swelling over the left cheek, which developed over the previous 8 months. There was mild pain on pressing the swelling and on opening of mouth. Swelling was progressively increasing in size. There was no other complaint

On examination, there was about 3 × 3 cm bony swelling in the left cheek. It was immobile, slightly tender with egg shell crackling on pressure. There was no murmur or bruit on auscultation. On aspiration, brownish serous fluid came out. It contained mainly red blood cells. CTscan of head and face (Figure 1) revealed rounded expansile lesion of bone with cortical thinning ,originating from left maxilla arrow).The lesion showed multiple internal septations and cysts with fluid-fluid levels of varying intensity(Fig1)

Figure 1
Figure 1: CT scan of head and face revealed rounded expansile lesion in the left maxillary sinus (arrow)
DISCUSSION

Aneurysmal bone cyst (ABC) is an expansile benign bone lesion that is common in the long bones; only 2% occurs in the head and neck region. It rarely presents in the maxillary region. It can attain great dimensions and may cause symptoms owing to its site and size and rapidity of growth i.e. swelling, deformity, pain, neurologic symptoms, and pathologic fractures. While CT (and MR) demonstrate characteristic fluid-fluid levels, the diagnosis remains histological.

ABC may behave aggressively and invade the orbit; so resection is necessary. Current recommended treatment is curettage with enucleation first if technically possible. Minimally invasive techniques such as endoscopic sinus surgery can be performed successfully in select cases. Long follow up is important because recurrence may occur, in which case further resection is warranted.

References
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