INTRODUCTION

According to WHO 1992 definition Ameloblastoma is defined usually as:- unicentric, non-functional, intermittent in growth anatomically benign, locally invasive polymorphic neoplasm consisting of proliferating odontogenic epithelium, which usually has a follicular or plexiform pattern, lying in a fibrous stroma. It accounts for 5-15% of all intraosseous ameloblastoma.

Many benign lesions affect mandible, e.g. Ameloblastoma, radicular cyst, dentigerous cyst, keratocystic odontogenic tumour, central giant cell granuloma, fibro-osseous lesions and osteomas. These lesions may be having origin from the odontogenic or non-odontogenic source. The 2nd most common entity, after odontoma, in this group is ameloblastoma which is a true neoplasm of odontogenic origin. Ameloblastoma develops from the epithelial remnants of the enamel organ, epithelial remnants of malasezz, reduced enamel epithelium and odontogenic cystic lining (e.g. of dentigerous cyst). Ameloblastomas can appear in three different varieties – solid or multicystic, unicystic and peripheral.

Multicystic ameloblastoma is the most common (85%) and most aggressive lesion, biologic behaviour of which was published by Gold 1991.

Solid or multicystic ameloblastomas are often accidentally found as an asymptomatic “soap bubble” or ‘honeycomb appearance” commonly associated with unerupted third molar causing resorption of adjacent tooth roots.

CASE REPORT

A 30 year old female patient reported with the complaint of a pain and swelling in the left lower jaw region since last 10 days. The patient gave a history of swelling on lower left jaw region from last 3 years. There was no history of similar swelling in the body. On extra oral examination, a single diffuse swelling about 4-5 cm in size was
seen in the left body and angle of mandible. The skin over the swelling was normal, without visible pulsation or secondary changes. On palpation the swelling was found to be non-tender, non-compressible, non-reducible and firm in consistency.

Intraorally, there was buccal and lingual expansion. The swelling was hard and non-tender. There was no rise in the temperature. Sub mandibular lymph nodes-Ipsilateral lymph node were palpable. No cervical lymphadenopathy is present and neurosensory testing reveals normal mandibular nerve function and no other focal neurological deficit. In general examination the patient is well developed and well nourished.

**Imaging**

In this case OPG shows multilocular/soap bubble radiolucency extending from right first premolar to the sigmoid notch with loss of continuity of the lower border of the mandible.

In this patient, the panoramic radiograph demonstrates a multilocular, cystic-appearing lesion extending from right first premolar to the sigmoid notch of left side, also there is loss of continuity at the inferior border.

**Surgical Treatment**

Successful treatment is the treatment that renders an acceptable prognosis, causes minimal disfigurement and is based on the behaviour and growth and physical patterns, duration, relative anatomic location, clinical extent and histological findings of the tumour. High potential for recurrence (60-85%) after enucleation and curettage is observed so most surgeons tend to select more aggressive treatment options. for small lesions marginal resection with 1 cm safe margin beyond the radiographic limits was advocated.

At the perforation site, overlying periosteum and resection (without maintaining the continuity) was advised by many authors. Mucosa was resected along with the tumour, leaving the condyle, and the defect was reconstructed with a standard reconstruction plate. Reconstruction of defect with free vascularized fibula flap and reconstruction plate is a good option after segmental resection.

**DISCUSSION**

Ameloblastoma often persists as a slow growing, painless swelling, causing expansion of the cortical bones, perforation of the lingual and/or buccal plates and infiltration of soft tissues, occurring more frequently in the posterior mandible. The lesions are often asymptomatic. In many patients, the lesion typically appears as a circumscribed radiolucency that surrounds the crown of an unerupted mandibular third molar, radio graphically resembling a dentigerous cyst.

There are seven histological types of ameloblastoma: follicular, plexiform, acanthomatous, granular cell, desmoplastic, basal cell, and unicystic variant, with the first two being the most common. Ameloblastoma can be either solid or multicystic, but they frequently demonstrate both characteristics. Although the majority of the tumours originate from within the maxilla or mandible, they can also be peripheral. The different histological variants don’t significantly alter treatment considerations except for the unicystic and the peripheral types, which can’t typically treated with enucleation and curettage. The long term follow ups with imaging are essential as multicystic ameloblastoma has recurrence rate of 50% in first five years after surgery. Unicystic variant show more favourable response to enucleation and curettage.

**CONCLUSION**

The early diagnosis based on clinical and imaging
data of patients with ameloblastoma is essential effective treatment of injury. The decision must be based on the elimination of pathology considering the morbidity of treatment method and life quality in the rehabilitation of patients.\(^7\)

Ameloblastoma is an aggressive tumour of odontogenic origin. There is some difference of opinion about preferable method of treatment, and the only unanimity centres around the fact that complete removal of neoplasm, regardless of how it is accomplished, will result in a cure of the patient. Treatment decisions for ameloblastoma are based on the individual patient situation and the best judgement of the surgeon.\(^9\),\(^10\)

**REFERENCES**