Diagnostic Enigma of Ameloblastic Carcinoma

CASE PRESENTATION

- 55-year-old female
- Slow growing, small
- **Painless** growth
- Site: Lower anterior region of jaw
- Duration: One year
- Pus & blood drainage

EXAMINATION FINDINGS

Extraoral Findings: Symmetrical facial symmetry Intraoral examination:

- Non tender, firm, well-defined swelling with a smooth surface in the mandibular anterior region measuring 4×5 cm in size.
- Sinus opening draining pus and blood

GROSS SPECIMEN

Multiple soft tissue specimen measuring A- 3.5 x 1.5 x 0.9 cm B- 2 x 2 x 1.5 cm Brownish black in colour, irregular surface and margins.

IMAGING CBCT:

Perforation of cortical plate, destroyed alveolar crest in mandibular anterior region with lateral expansion.





- Areas showed ameloblastoma like islands
- Increased nuclear-to-cytoplasmic ratio, nuclear hyperchromatism, and the presence of mitoses.

IMMUNOHISTOCHEMICAL STUDIES

Positive for CK5, CK18, P40, P16 Negative for CD34, SMA, Desmin, S100



- antibiotic coverage
- Reconstruction with free fibular graft.
- Current status: Radiotherapy and chemotherapy.

Differential Diagnoses

- Rare malignant odontogenic tumour
- De-novo (1°) or by malignant transformation (2°) Male-to-female ratio is 1.97:1

- 5 & 10-year survival proportions: 72.9% and 56.8% The recurrence rate after surgery was 28.3%

and allied lesions 1971

- 0000 2016
- Surg. 1978
- carcinoma. 000 1984



RADIOGRAPHIC FINDINGS

MANAGEMENT & PATIENT OUTCOME

Hemi-mandibulectomy with neck dissection under

Acanthomatous Ameloblastoma

l° Intra-alveolar **Epidermoid Ca**

Kerato-amleoblastoma

Basaloid variant of SCC

DISCUSSION

- Mandible-to-maxilla ratio is 1.71:1
- 70% involved the posterior portion of jaw

References:

- 1. Pindborg JJ. Histological typing of odontogenic tumors, jaw cysts
- 2. Fonseca FP et al Ameloblastic carcinoma with extensive
- squamous differentiation areas and dedifferentiated regions.

3. Regezi JA et al Odontogenic tumors: analysis of 706 cases. J Oral

4. Slootweg PJ et al Malignant ameloblastoma or ameloblastic