

# Odontogenic tumors

Odontogenic tumors are tumors arising from the dental lamina or its derivatives.

They make up only 1% of oral cavity tumors.

Odontogenic tumors are divided into epithelial, mesenchymal, and mixed.

## Epithelial odontogenic tumors

### Ameloblastoma

**Ameloblastoma** is the most common odontogenic tumor. It is usually benign but often recurs. It is a cystic poorly circumscribed mass. It grows destructively.

### Calcifying epithelial odontogenic tumor

- The so-called Pindborg tumor
- slow, locally invasive growth
- localization in the molar and premolar region (mandible)
- arises in connection with a routine tooth
- usually no problems, just a painless swelling of the jaw
- on X-ray as cystic clearing
- formation of eosinophilic hyaline amyloid-like spherical formations that may calcify
- tumor cells connected by IC bridges, folding into beams
- polymorphic cores
- recurrences with incomplete removal



Ameloblastoma arising from the mandible

### Adenomatoid odontogenic tumor

- affects young individuals (up to 20 years)
- more often in the maxilla
- it is made up of polyhedral epithelial cells, which in some places differentiate into cylindrical cells

### Squamous odontogenic tumor

## Mesenchymal odontogenic tumors

These are cementomas. They arise from cementoblasts. They are characterized by the presence of islands of cement in fibrous structures.

We divide them into four types:

- real cement
- cementing fibroma,
- gigantiform cement,
- periapical cemental dysplasia.

## Mixed odontogenic tumors

Mixed odontogenic tumors contain both epithelial and mesenchymal components.

### Ameloblastic fibroma

- benign, rare
- grows slowly, enlarges the jaw (more often the mandible)
- frequent occurrence in the landscape of canines and molars
- grows centrally in the bone, grows expansively (the cortex often disappears completely)
- sometimes relapses
- on X-ray it looks like a circumscribed clearing
- formed by proliferating epithelium, surrounded by mesenchymal tissue

## Odontom

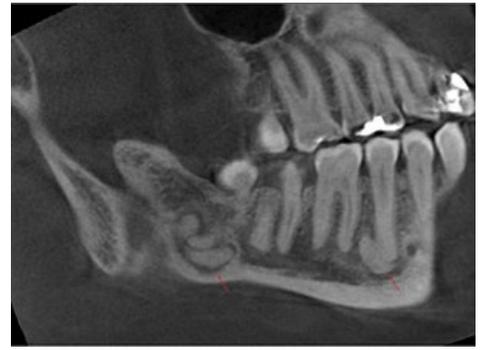
## Links

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- Odontoma
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## References

- LIŠKA, Karel. Orofacial pathology. 1st edition. Prague: Avicenum, 1983. 159 p.



Odontoma