



- Radicular cyst
- Residual cyst
- Dentigerous cyst
- Paradental cysts (Buccal bifurcation cysts)
- Odontogenic Keratocyst (OKC)
 - Basal cell nevus-bifid rib-OKC syndrome
- Lateral periodontal cyst
- Calcifying odontogenic cyst



Non-Odontogenic cysts

- Nasopalatine cyst
- Nasolabial cyst
- Dermoid cyst
- Cysts formerly known as "developmental cysts"



Pseudocysts

- Simple bone cyst (Traumatic bone cyst)
- Aneurysmal Bone Cyst
- Mucous Retention Cyst
- Stafne Bone Cyst (aka Stafne Bone Defect)



Odontogenic Cysts

- Radicular cyst
- Residual cyst
- Dentigerous cyst
- Paradental cysts (Buccal bifurcation cysts)
- Odontogenic keratocyst (OKC)
 - Basal cell nevus-bifid rib-OKC syndrome
- Lateral periodontal cyst
- Calcifying odontogenic cyst



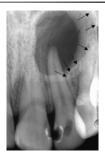


- Results from the stimulation of the epithelial cell rests in the PDL by the inflammatory products from the non-vital tooth
- Most common type of cysts in the jaws





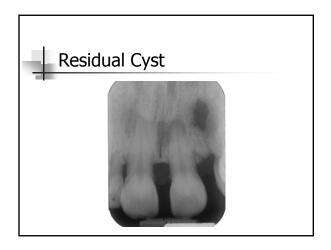
Radicular cyts

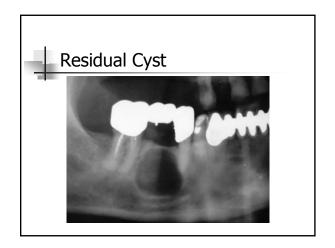


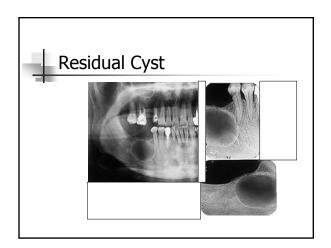


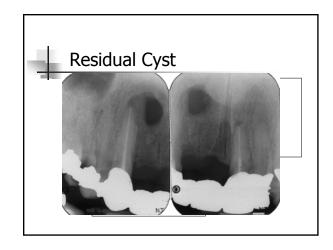
Odontogenic Cysts

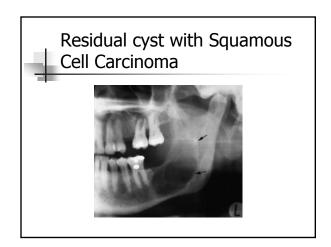
- Radicular cyst
- Residual cyst
- Dentigerous cyst
- Paradental cysts (Buccal bifurcation cysts)
- Odontogenic Keratocyst (OKC)
 - Basal cell nevus-bifid rib-OKC syndrome
- Lateral periodontal cyst
- Calcifying odontogenic cyst

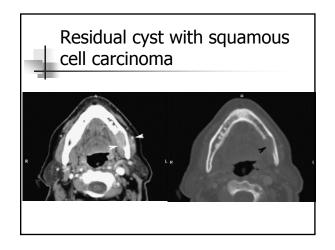












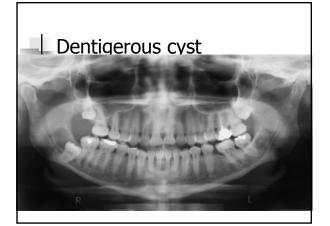


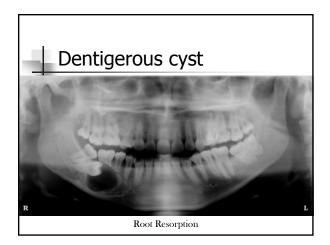
- Radicular cyst
- Residual cyst
- Dentigerous cyst
- Paradental cysts (Buccal bifurcation cysts)
- Odontogenic keratocyst (OKC)
 - Basal cell nevus-bifid rib-OKC syndrome
- Lateral periodontal cyst
- Calcifying odontogenic cyst

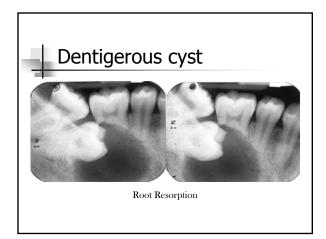


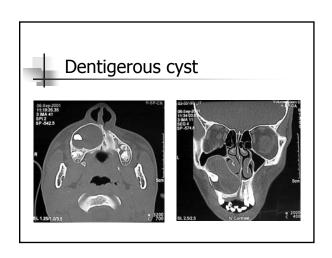
Dentigerous cyst (follicular cyst)

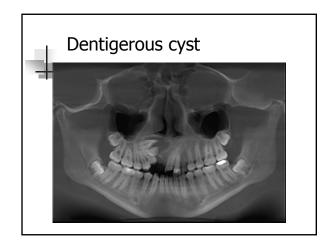
- Develops around the crown of an unerupted permanent or supernumerary tooth
- Second most common type of cyst in the jaws
- Asymptomatic
- Internal aspect is completely lucent except for the crown of the involved tooth
- Either resorbs or displaces the adjacent teeth
- Follicular spaces >5mm (normal 2-3 mm) should be closely followed for potential development of dentigerous cysts.

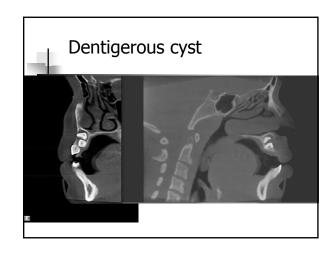


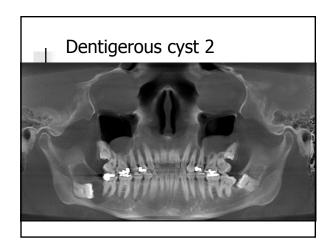


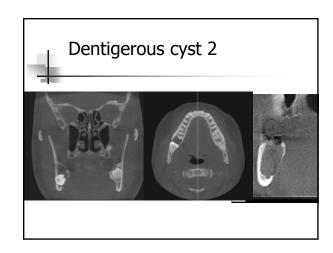


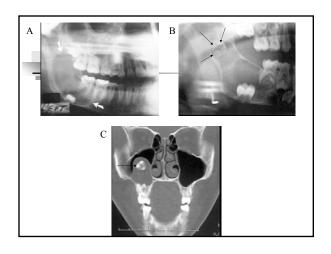


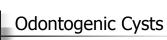












- Radicular cyst
- Residual cyst
- Dentigerous cyst
- Paradental cysts (Buccal bifurcation cysts)
- Odontogenic keratocyst (OKC)
 - Basal cell nevus-bifid rib-OKC syndrome
- Lateral periodontal cyst
- Calcifying odontogenic cyst



Odontogenic Cysts

- Paradental cysts (Buccal bifurcation cysts)
 - Most common in the 6- to 11-year-old age group.
 - Usually associated with the mandibular first molar, occasionally the mandibular second molar.
 - The associated tooth has an altered eruption pattern with buccal tilting of the crown.
 - The associated tooth is vital.
 - Deep periodontal pockets on the buccal aspect of the tooth.
 - +/- swelling
 - +/- pain or tenderness
 - +/- infection.

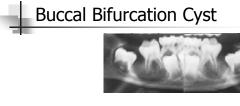
David LA, Sandor GKB, Stoneman DW, <u>The buccal</u> bifurcation cyst: Is non-surgical treatment an option? JCDA 64(9) 712-717 1998.



Odontogenic Cysts

- Radiographic Features of the Buccal bifurcation cyst
 - Fine radiopaque concave line as lower limit, producing a Ushaped radiolucent lesion that appears superimposed over the roots.
 - Intact periodontal ligament space and lamina dura.
 - Increased prominence of lingual cusps due to tilting.
 - Apices tilted toward lingual cortex.
 - Intact inferior border of mandible.
 - +/- periosteal reaction on buccal surface.
 - +/- bony expansion, thinning and associated swelling of the buccal cortex.
 - +/- displacement of adjacent unerupted teeth

David LA, Sandor GKB, Stoneman DW, <u>The buccal</u> bifurcation cyst: <u>Is non-surgical treatment an</u> option? JCDA 64(9) 712-717 1998.



These lesions tend to resolve without intervention

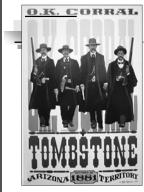


David LA, Sandor GKB, Stoneman DW, <u>The buccal</u> bifurcation cyst: Is non-surgical treatment an option? *JCDA* 64(9) 712-717 1998.



Odontogenic Cysts

- Radicular cyst
- Residual cyst
- Dentigerous cyst
- Paradental cysts (Buccal bifurcation cysts)
- Odontogenic keratocyst (OKC)
 - Basal cell nevus-bifid rib-OKC syndrome
- Lateral periodontal cyst
- Calcifying odontogenic cyst





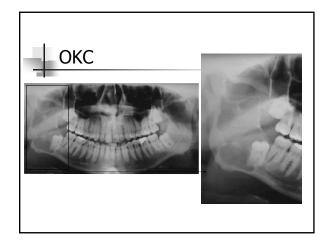


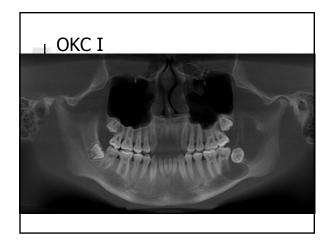
Odontogenic Keratocyst (OKC)

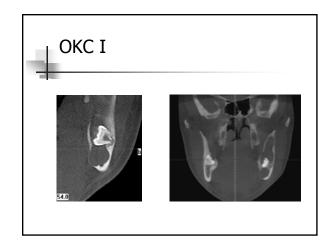
An OKC is a non-inflammatory odontogenic cyst that arises from the dental lamina. The epithelium in OKC appears to have innate growth potential similar to some benign tumors.

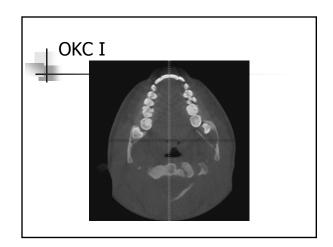


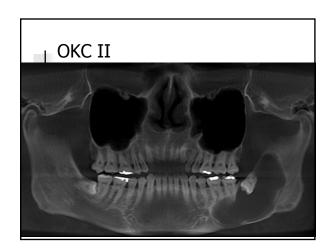
- First reported by Philipsen in 1956
- Peak occurence in the 2nd and 3rd decades
- Asymptomatic, swelling on occasion
- Pain from secondary infection
- Aspiration may reveal thick yellow cheesy material (keratin)
- High recurrence rate after surgical enucleation

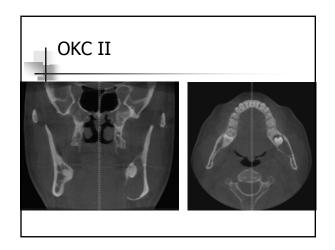








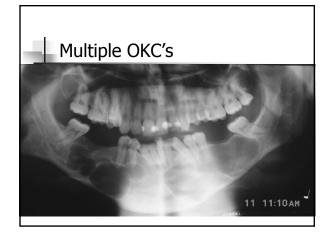


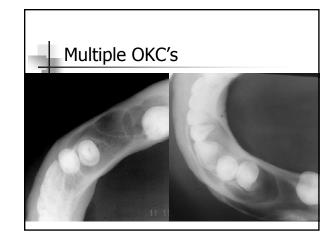




Basal cell nevus-bifid rib syndrome

- Age range 5-30 years
- Abnormalities including multiple nevoid basal cell carcinomas of the skin, skeletal abnormalities (bifid ribs, agenesis and/or synostosis of ribs, kyphoscoliosis, vertebral fusion, temporopatietal bossing, etc.), CNS abnormalities (calcification of falx cerebri), eye abnormalities, multiple OKCs







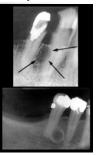
Odontogenic Cysts

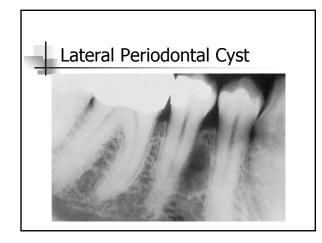
- Radicular cyst
- Residual cyst
- Dentigerous cyst
- Paradental cysts (Buccal bifurcation cysts)
- Odontogenic Keratocyst (OKC)
 - Basal cell nevus-bifid rib-OKC syndrome
- Lateral periodontal cyst
- Calcifying odontogenic cyst

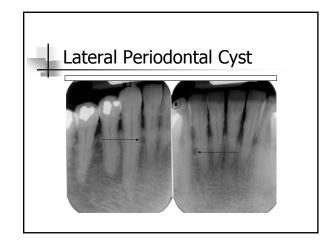


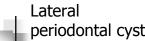
Lateral periodontal cyst

- Usually unicystic, it may also appear as a cluster of small cysts → botryoid odontogenic cysts
- Arise from the epithelial rests in the periodontium lateral to the root
- 50-75% develop in the mandible from lateral incisor to the premolar region
- In the maxilla, they appear between lateral incisor and canine









- Botryoid lateral periodontal cyst
- Origin from dental lamina?

[From Greek botruoeid s : botrus, *bunch of grapes* + - oeid s, *-oid.*]



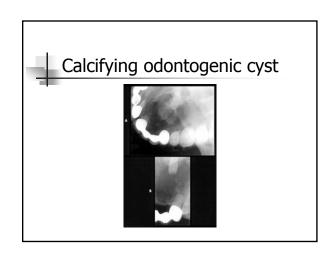
Odontogenic Cysts

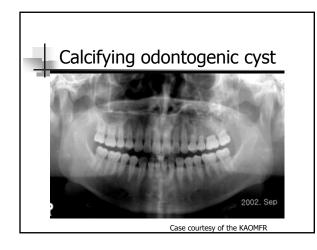
- Radicular cyst
- Residual cyst
- Dentigerous cyst
- Paradental cysts (Buccal bifurcation cysts)
- Odontogenic keratocyst (OKC)
 - Basal cell nevus-bifid rib-OKC syndrome
- Lateral periodontal cyst
- Calcifying odontogenic cyst

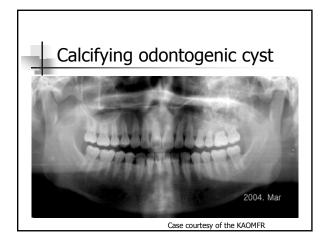
Cal

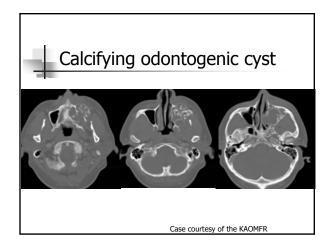
Calcifying odontogenic cyst

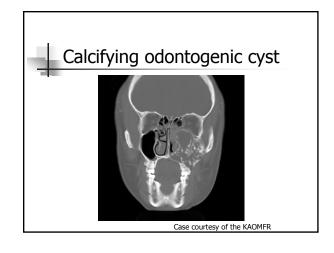
- Calcifying odontogenic cysts have a wide age distribution that peaks at 10 to 19 years of age, with a mean age of 36 years
- Clinically, the lesion usually appears as a slowgrowing, painless swelling of the jaw. Occasionally the patient complains of pain. In some cases the expanding lesion may destroy the cortical plate, and the cystic mass may become palpable as it extends into the soft tissue.
- Aspiration often yields a viscous, granular, yellow fluid

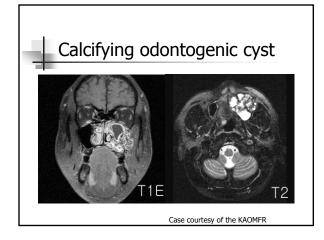


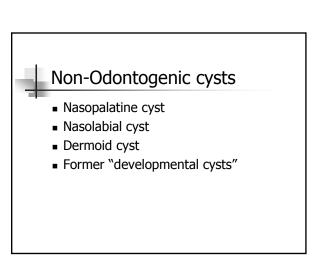


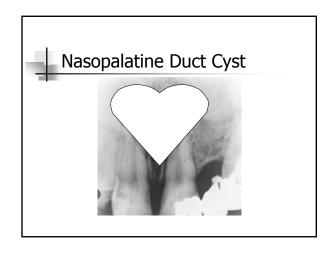


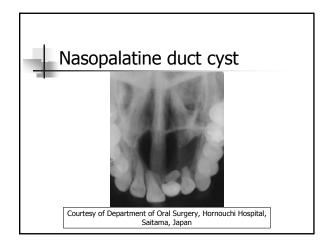






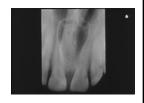






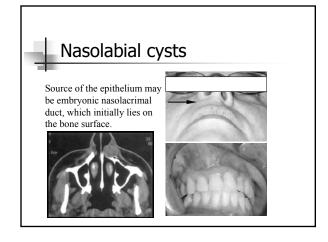


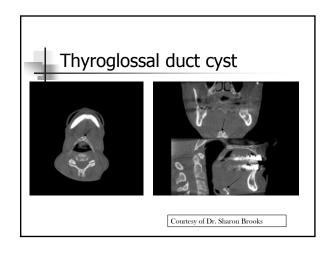
- aka incisive canal cyst
- If it involves the posterior hard palate, termed median palatal cyst
- Anteriorly, may be called median anterior maxillary cyst, depending on the radiographic features



Non-Odontogenic cysts

- Nasopalatine cyst
- Nasolabial cyst
- Dermoid cyst
- Former "developmental cysts"



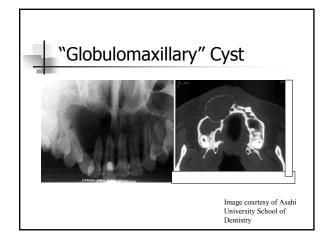




Pathoses formerly known as "Globulomaxillary" Cysts

- Discredited as a developmental cyst
- Most are found, upon re-examination of histopathological and radiographic evidence, to be radicular or lateral periodontal cysts.







Pseudocysts

- Simple bone cyst (Traumatic bone cyst)
- Aneurysmal Bone Cyst
- Mucous Retention Cyst
- Stafne Bone Cyst (aka Stafne Bone Defect)



Pseudocysts

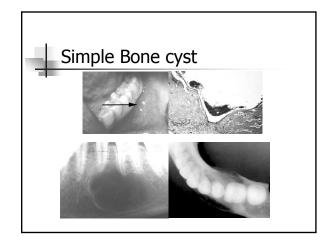
- Simple bone cyst (Traumatic bone cyst)
- Aneurysmal Bone Cyst
- Mucous Retention Cyst
- Stafne Bone Cyst (aka Stafne Bone Defect)

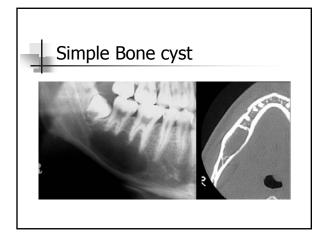


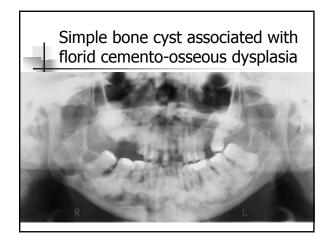
Pseudocysts

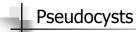
 Simple bone cyst (Traumatic bone cyst)



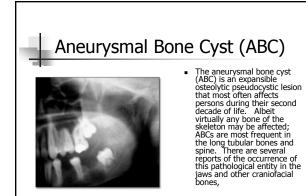








- Simple bone cyst (Traumatic bone cyst)
- Aneurysmal Bone Cyst
- Mucous Retention Cyst
- Stafne Bone Cyst (aka Stafne Bone Defect)



http://www.thejcdp.com/issue022/martins/03martins.htm



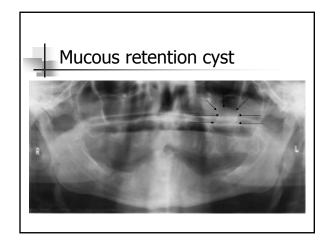
- Simple bone cyst (Traumatic bone cyst)
- Aneurysmal bone cyst
- Mucous retention cyst
- Stafne bone cyst (aka Stafne bone defect)

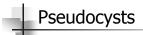


Mucous retention cyst

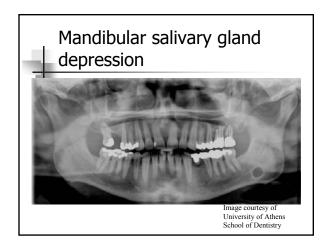
- Dome shaped opacity in the floor of the maxillary sinus
- Non-epithelial lined
- Fluid filled
- Usually asymptomatic

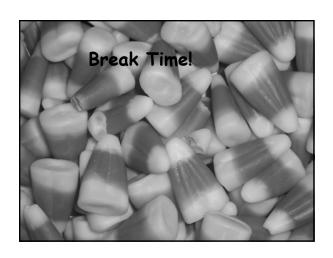


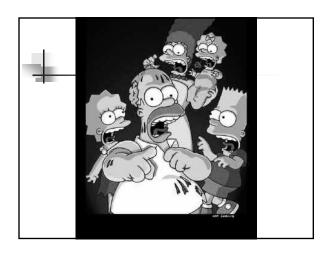


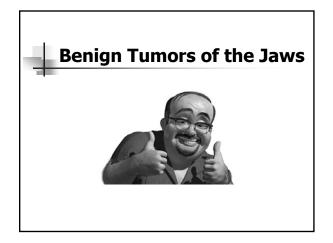


- Simple bone cyst (Traumatic bone cyst)
- Aneurysmal bone cyst
- Mucous retention cyst
- Stafne bone cyst (aka Stafne bone defect)











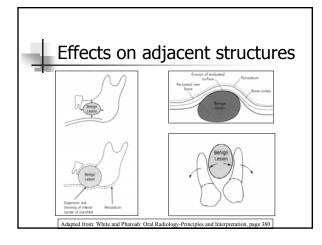
- Hyperplasias (tori, exostosis and enostosis)
- Odontogenic tumors
 - Epithelial tumors
 - Ameloblastoma
 Adenomatoid
 Odontogenic tumor
 (AOT)
 - CEOT/ Pindborg's tumor
 - Mixed (ecto-mesodermal)
 - Odontoma
 - Ameloblastic fibroma
 - Ameloblastic fibroodontoma

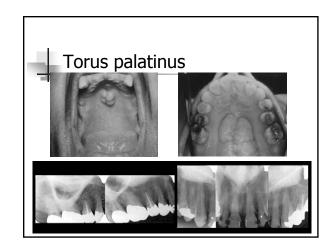
- Mesodermal tumors
 - Odontogenic myxoma, Benign cementoblastoma
 - Central odontogenic fibroma

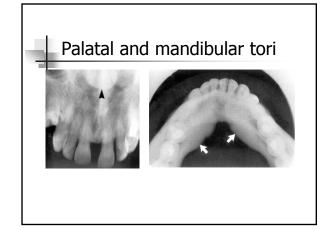


Benign Jaw Tumors

- Non-odontogenic tumors
 - Ectodermal (neurilemoma, neuroma)
 - Mixed tumors (neurofibroma, neurofibromatosis)
 - Mesodermal tumors (osteoma, Gardner's syndrome, central hemangioma, A-V fistula, osteoblastoma, osteoid osteoma
 - Pseudotumors: Central giant cell granuloma



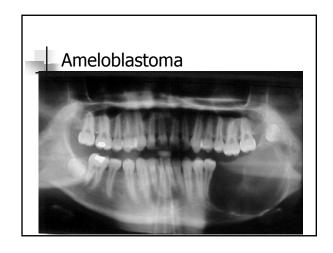


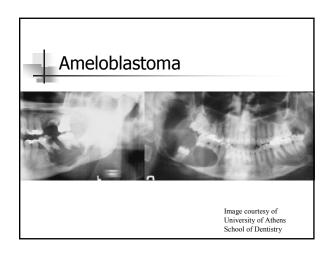


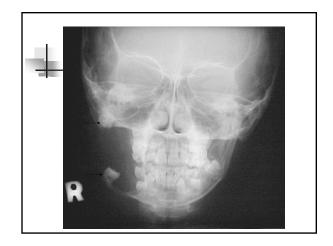


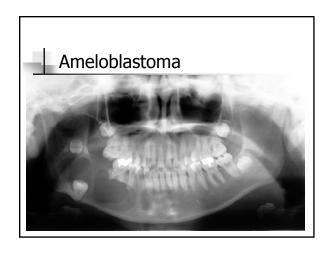
Benign Jaw Tumors

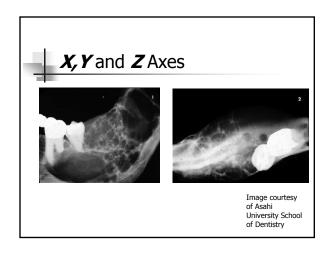
- Hyperplasias (tori, exostosis and enostosis)
- Odontogenic tumors
 - Epithelial tumors
 - Ameloblastoma
 - Adenomatoid odontogenic tumor (AOT)
 - CEOT/ Pindborg's tumor
 - Mixed (ecto-mesodermal)
 - Odontoma
 - Ameloblastic fibroma
 - Ameloblastic fibro-odontoma
 - Mesodermal tumors
 - Odontogenic myxoma, Benign cementoblastoma
 - Central odontogenic fibroma

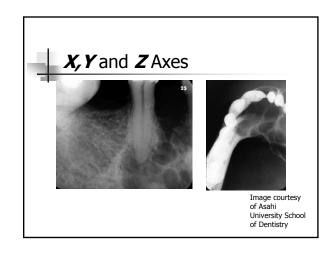


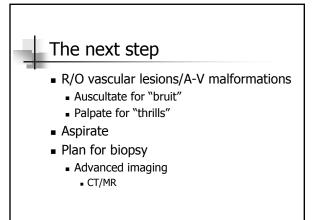


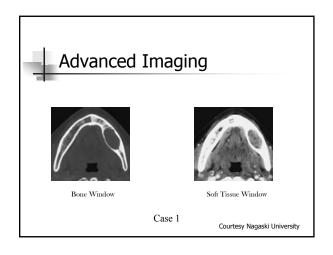


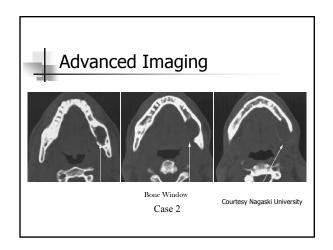


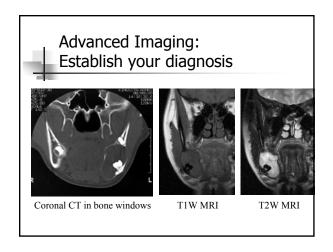


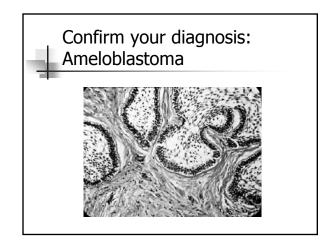


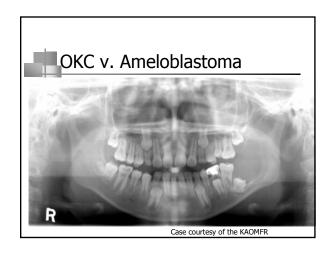


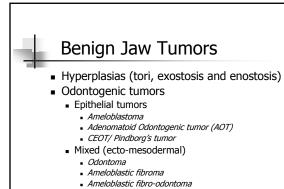




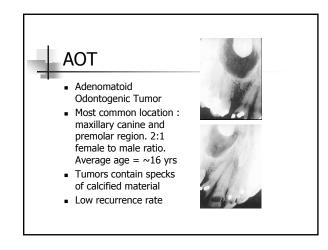


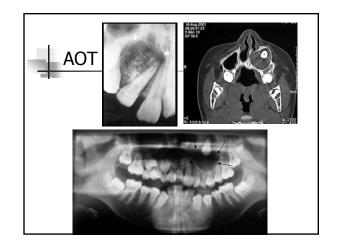




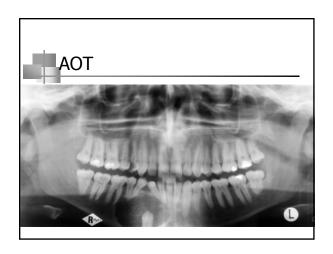


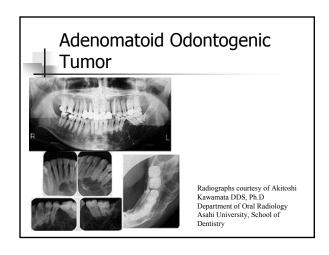
Mesodermal tumors

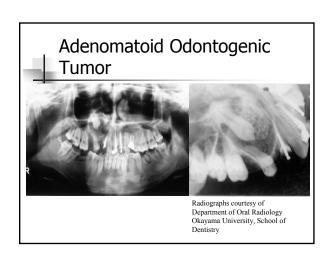




Odontogenic myxoma, Benign cementoblastoma
 Central odontogenic fibroma









- Hyperplasias (tori, exostosis and enostosis)
- Odontogenic tumors
 - Epithelial tumors
 - Ameloblastoma
 - Adenomatoid Odontogenic tumor (AOT)
 - CEOT/ Pindborg's tumor
 - Mixed (ecto-mesodermal)
 - Odontoma
 - Ameloblastic fibroma
 - Ameloblastic fibro-odontoma
 - Mesodermal tumors
 - Odontogenic myxoma, Benign cementoblastoma
 - Central odontogenic fibroma



CEOT (Pindborg Tumor)

- Behaves like ameloblastoma
 Bradilaction for mandible
- Predilection for mandiblepremolar/molar area
- >half of the lesions will have associated impacted or unerupted tooth
- Periphery well defined to diffuse
- Cystic lesion with numerous scattered, radiopaque foci of varying size and density giving it the appearance of "Driven Snow"
- Presence of amyloid and calcified "Liesegang Rings"







Benign Jaw Tumors

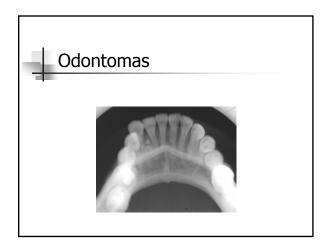
- Hyperplasias (tori, exostosis and enostosis)
- Odontogenic tumors
 - Epithelial tumors
 - Ameloblastoma
 - Adenomatoid Odontogenic tumor (AOT)
 - CEOT/ Pindborg's tumor
 - Mixed (ecto-mesodermal)
 - Odontoma
 - Ameloblastic fibroma
 - Ameloblastic fibro-odontoma
 - Mesodermal tumors
 - Odontogenic myxoma, Benign cementoblastoma
 - Central odontogenic fibroma

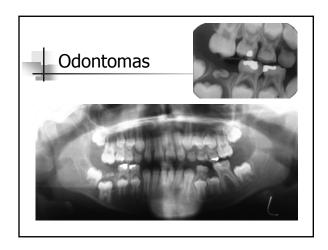


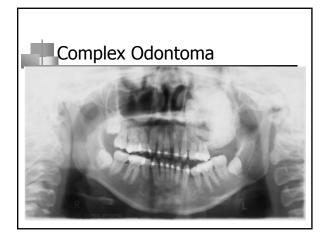


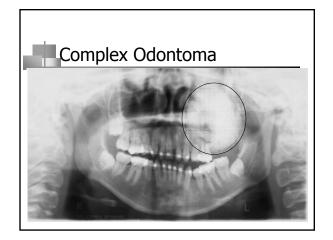
Compound

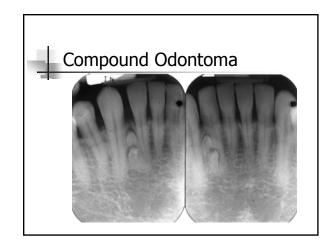






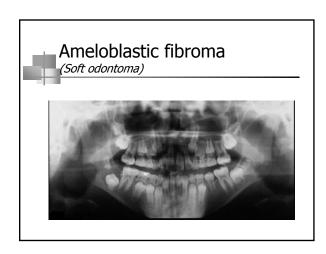


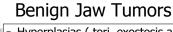




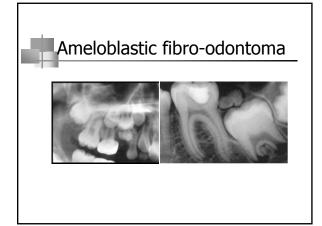


- Hyperplasias (tori, exostosis and enostosis)
- Odontogenic tumors
 - Epithelial tumors
 - Ameloblastoma
 - Adenomatoid Odontogenic tumor (AOT)
 CEOT/ Pindborg's tumor
 - Mixed (ecto-mesodermal)
 - Odontoma
 - Ameloblastic fibroma
 - Ameloblastic fibro-odontoma
 - Mesodermal tumors
 - Odontogenic myxoma, Benign cementoblastoma
 Central odontogenic fibroma





- Hyperplasias (tori, exostosis and enostosis)
- Odontogenic tumors
 - Epithelial tumors
 - Ameloblastoma
 - Adenomatoid Odontogenic tumor (AOT)
 - CEOT/ Pindborg's tumor
 - Mixed (ecto-mesodermal)
 - Odontoma
 - Ameloblastic fibroma
 - Ameloblastic fibro-odontoma
 - Mesodermal tumors
 - Odontogenic myxoma, Benign cementoblastoma
 - Central odontogenic fibroma



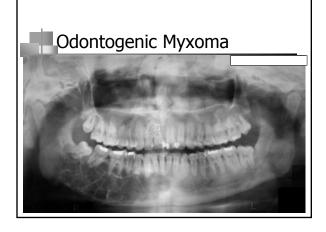


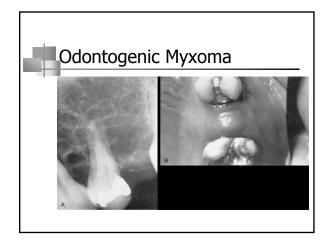
- Hyperplasias (tori, exostosis and enostosis)
- Odontogenic tumors
 - Epithelial tumors
 - Ameloblastoma
 - Adenomatoid Odontogenic tumor (AOT)
 - CEOT/ Pindborg's tumor
 - Mixed (ecto-mesodermal)
 - Odontoma
 - Ameloblastic fibroma
 - Ameloblastic fibro-odontoma
 - Mesodermal tumors
 - Odontogenic myxoma, Benign cementoblastoma
 - Central odontogenic fibroma



Odontogenic Myxoma

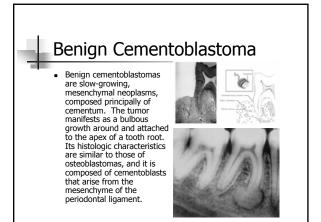
■ If odontogenic myxomas have a gender predilection, they slightly favor females. Although the lesion can occur at any age, more than half arise in individuals between 10 and 30 years. This tumor often is associated with a congenitally missing or unerupted tooth. It grows slowly and may or may not cause pain. It may also invade the maxillary sinus and cause exophthalmos. Recurrence rate is as high as 25%. This high rate may be explained by the lack of encapsulation of the tumor, its poorly defined boundaries, and the extension of nests or pockets of myxoid (jellylike) tumor into the trabeculae

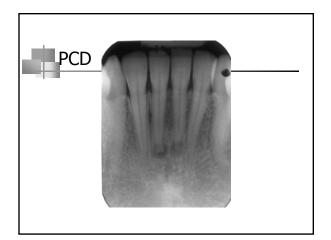


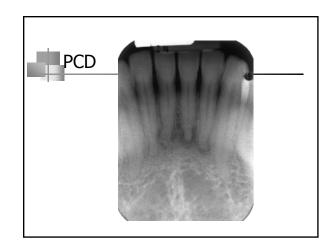


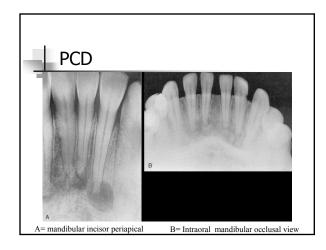


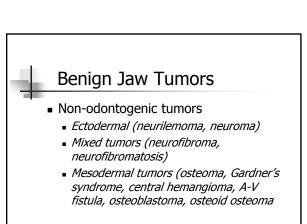
- Hyperplasias (tori, exostosis and enostosis)
- Odontogenic tumors
 - Epithelial tumors
 - Ameloblastoma
 - Adenomatoid Odontogenic tumor (AOT)
 - CEOT/ Pindborg's tumor
 - Mixed (ecto-mesodermal)
 - Odontoma
 - Ameloblastic fibroma
 - Ameloblastic fibro-odontoma
 - Mesodermal tumors
 - Odontogenic myxoma, Benign cementoblastoma
 - Central odontogenic fibroma

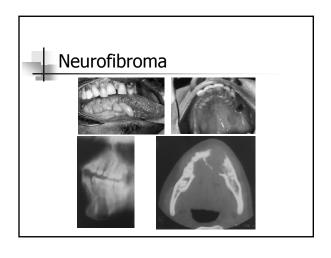






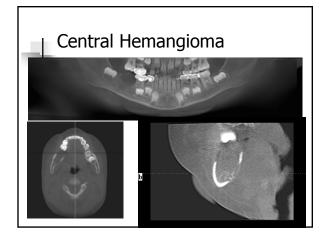








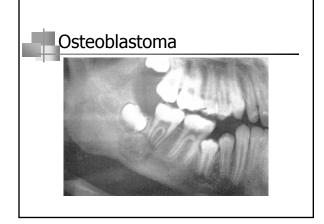
- Non-odontogenic tumors
 - Ectodermal (neurilemoma, neuroma)
 - Mixed tumors (neurofibroma, neurofibromatosis)
 - Mesodermal tumors (osteoma, Gardner's syndrome, central hemangioma, A-V fistula, osteoblastoma, osteoid osteoma





Benign Jaw Tumors

- Non-odontogenic tumors
 - Ectodermal (neurilemoma, neuroma)
 - Mixed tumors (neurofibroma, neurofibromatosis)
 - Mesodermal tumors (osteoma, Gardner's syndrome, central hemangioma, A-V fistula, osteoblastoma, osteoid osteoma





Benign Jaw Tumors

- Non-odontogenic tumors
 - Ectodermal (neurilemoma, neuroma)
 - Mixed tumors (neurofibroma, neurofibromatosis)
 - Mesodermal tumors (osteoma, Gardner's syndrome, central hemangioma, A-V fistula, osteoblastoma, osteoid osteoma

