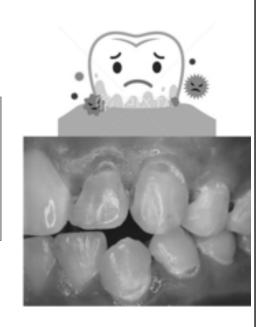
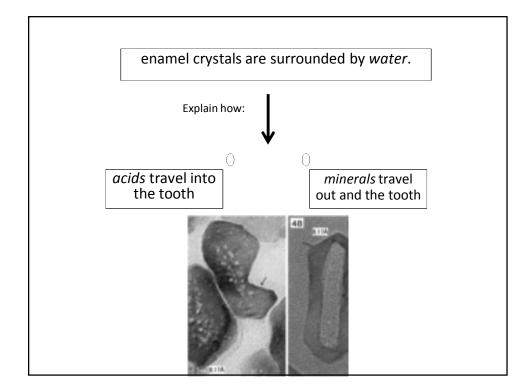
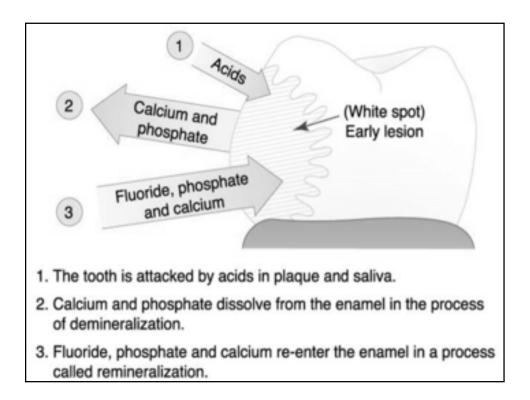
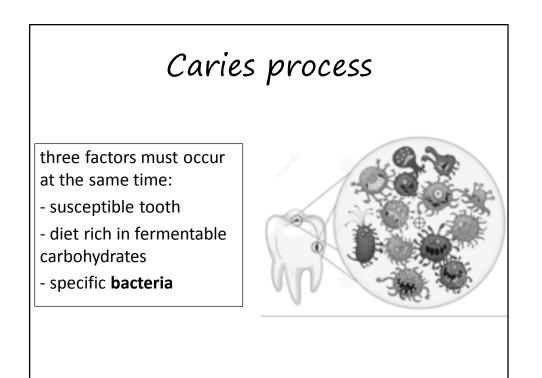


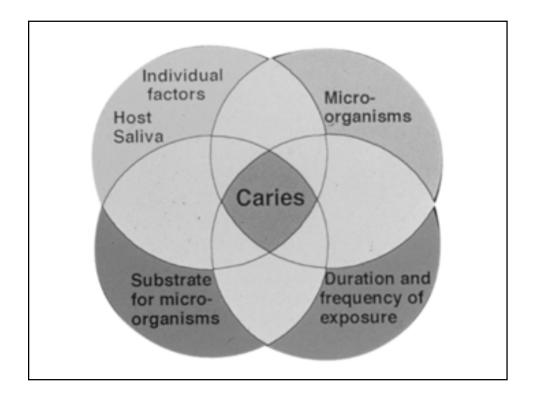
Dental plaque is a colorless, soft, sticky coating that adheres to the teeth, concentrates millions of microorganisms on that tooth.

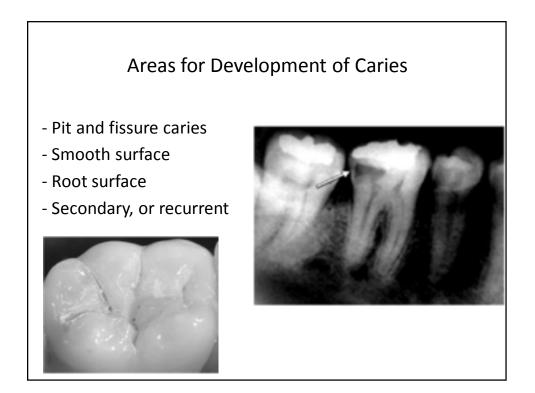


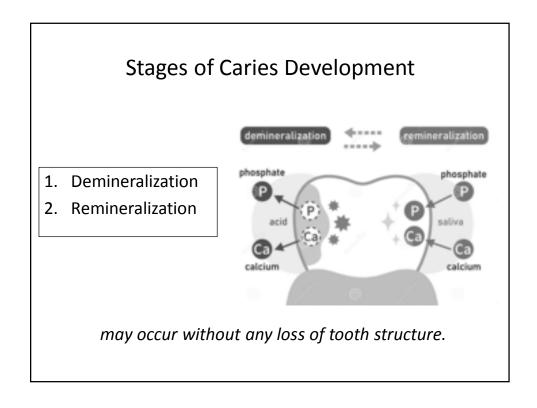


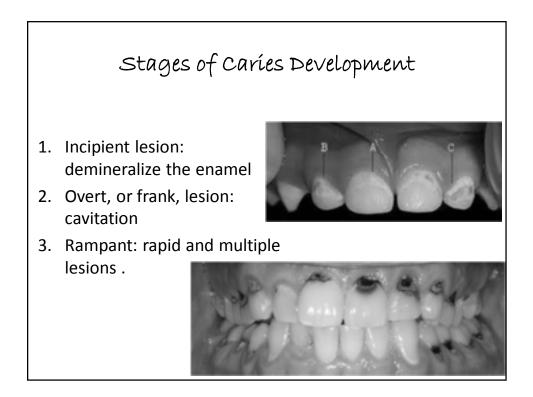


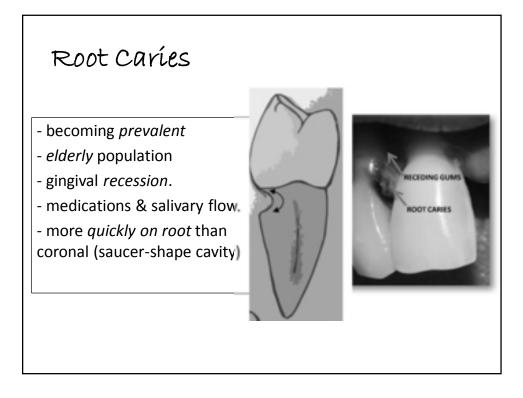


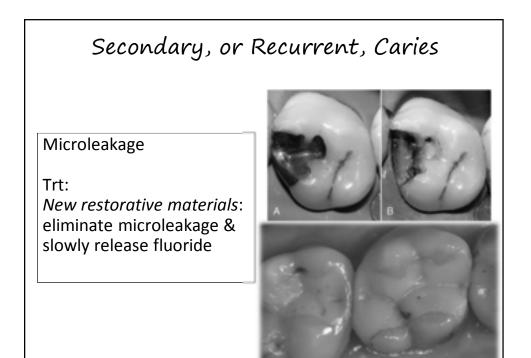






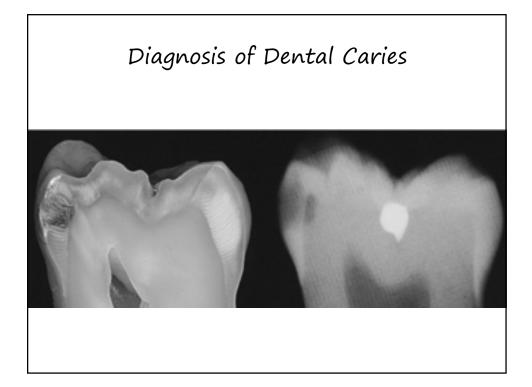




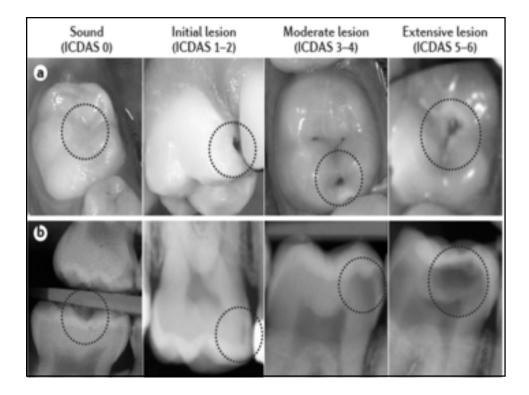


The Role of Salíva

- 1. Physical protection.
- 2. Chemical protection
- 3. Buffers
- 4. Antibacterial substances

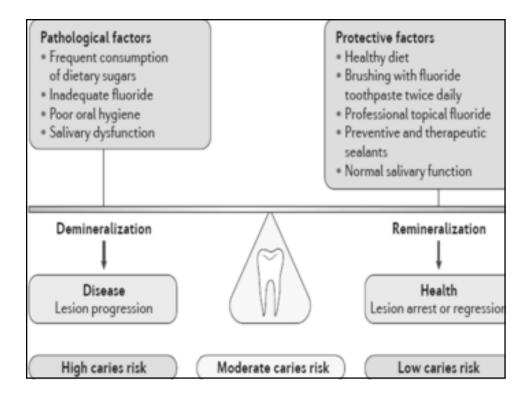


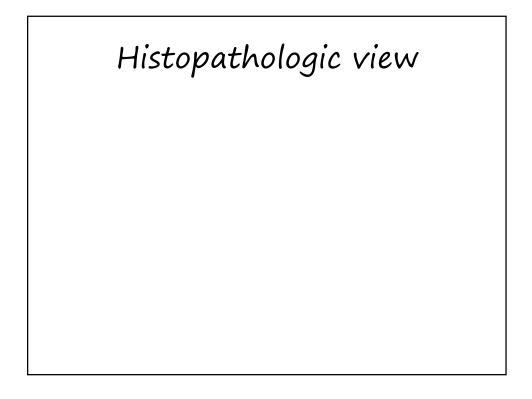


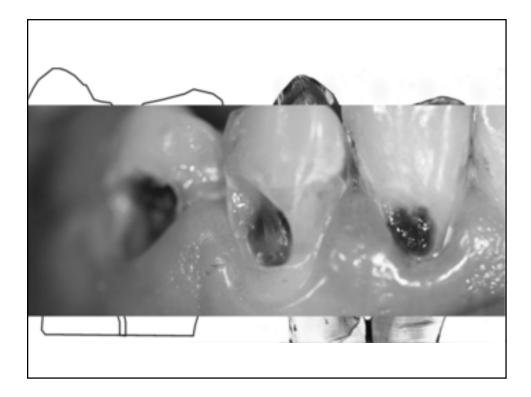


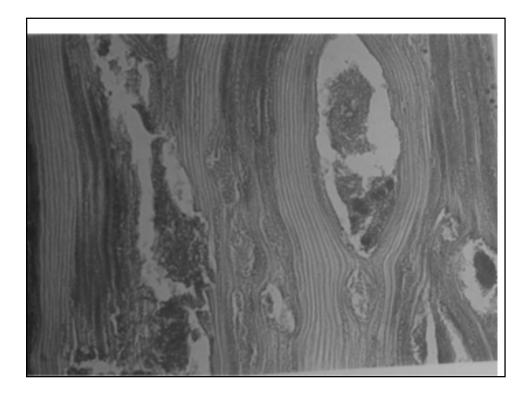
Methods of Caries Intervention

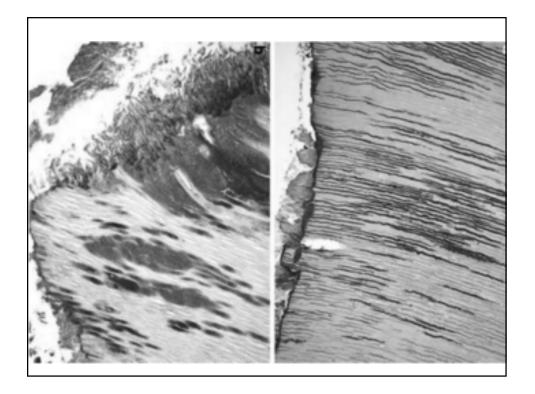
- 1. Fluoride
- 2. Antibacterial therapy
- 3. Fermentable carbohydrates
- 4. Salivary flow



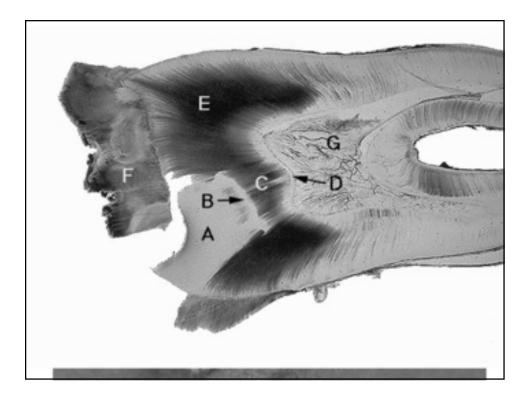


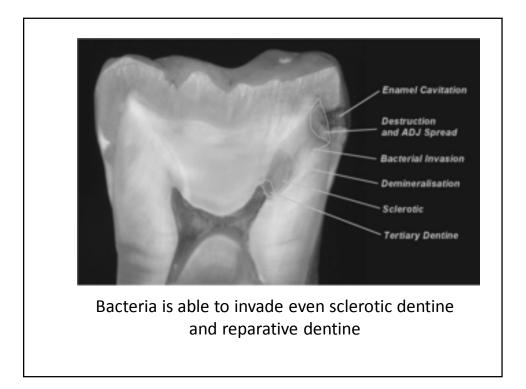


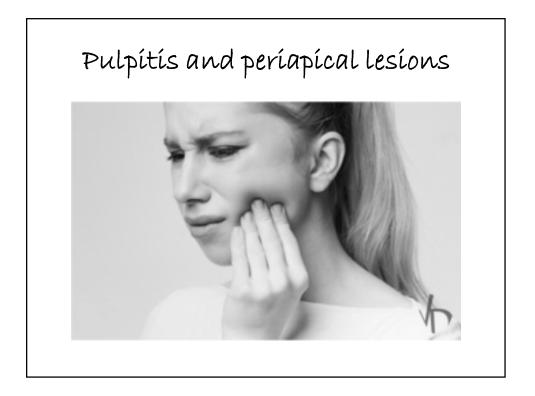


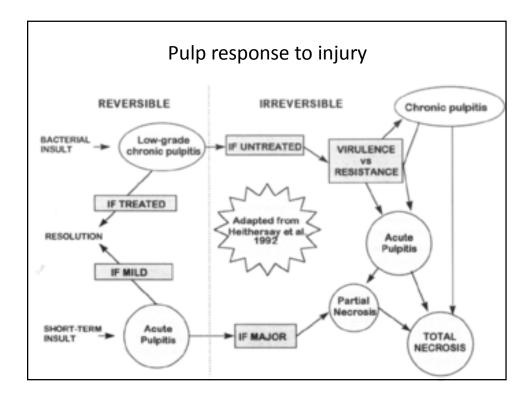


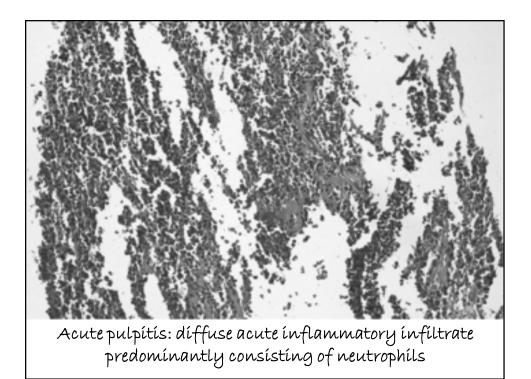
Causative factor	Response
stop bacteria, it is the translucent zone	Sclerotic dentine
response to simple injury creasing dentine thickness JT in roof and base of pulp chamber = no aportance	Regular reparative dentine
response to medium and sever injury regular of ostoid like mass	Irregular reparative dentine
response to death of OB	dead tracts

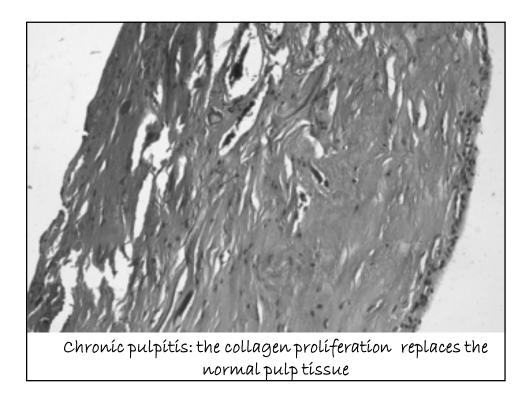


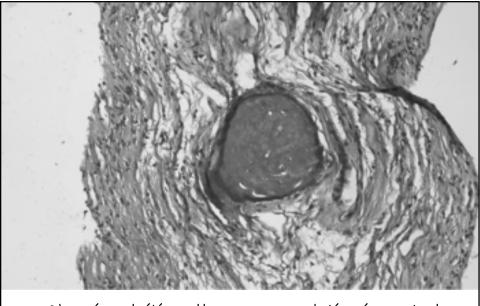




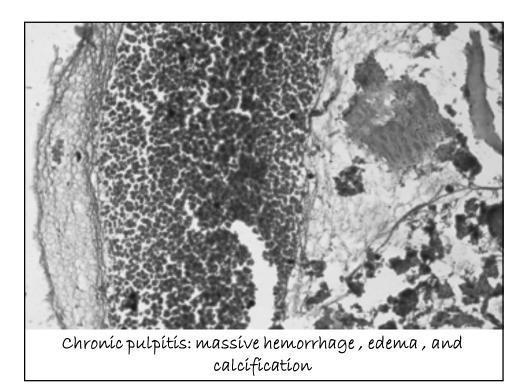


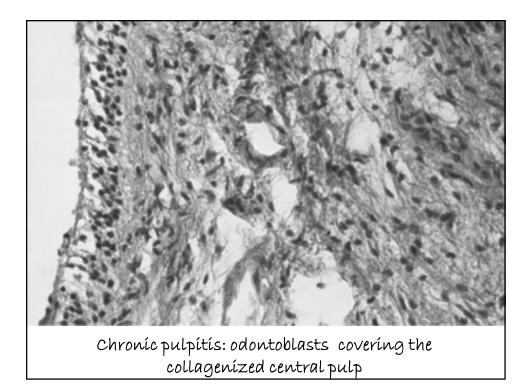


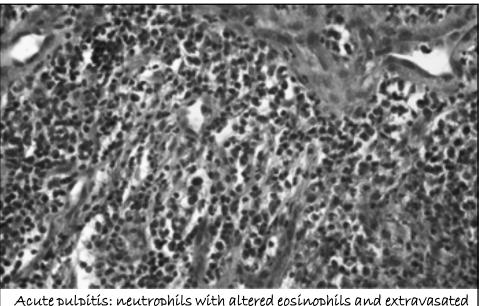




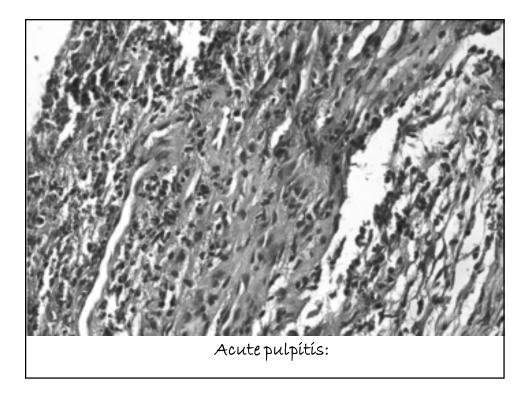
Chronic pulpitis: collagen accumulation in central pulp area, surrounding a pulp stone



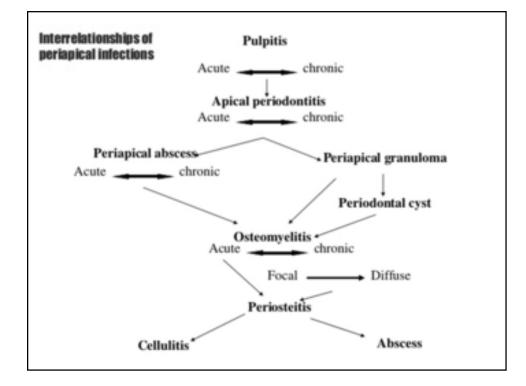




Acute pulpítís: neutrophíls with altered eosínophíls and extravasated red blood cells



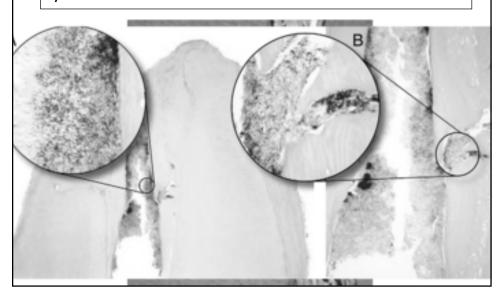


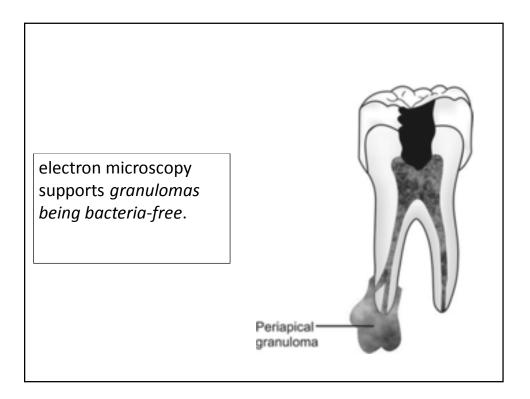


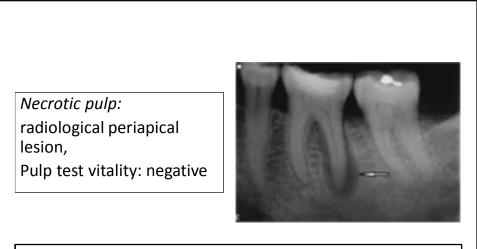
Periapical lesions

Untraditional approach

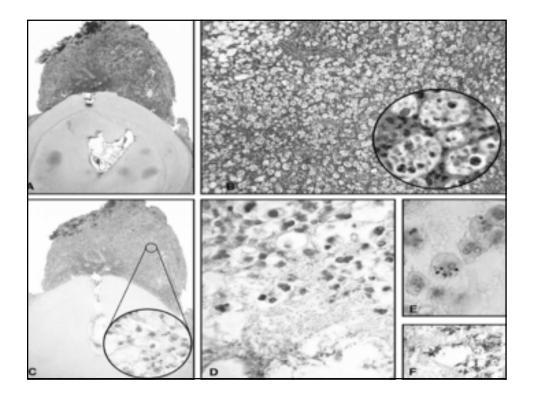
Etiology of apical periodontitis is derived from the presence and *colonization of bacteria* in the root canal system.

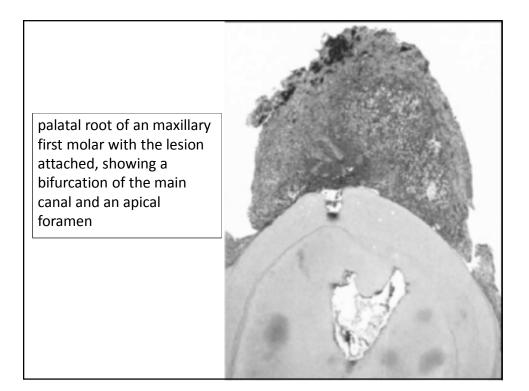


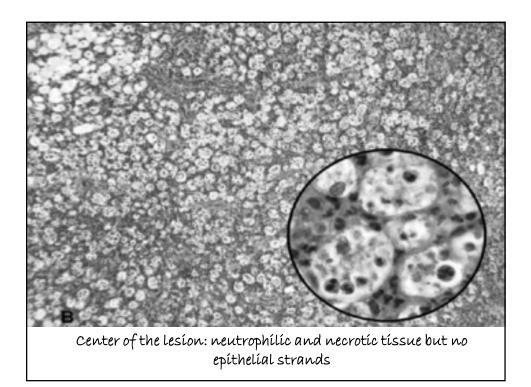


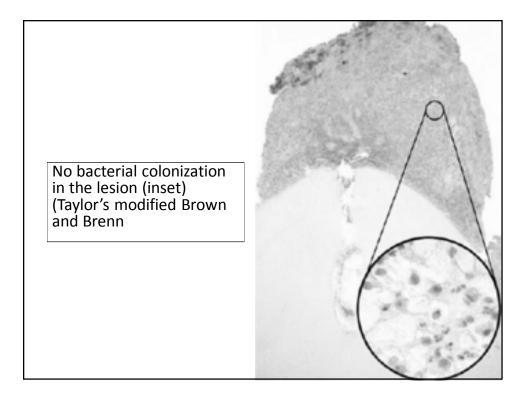


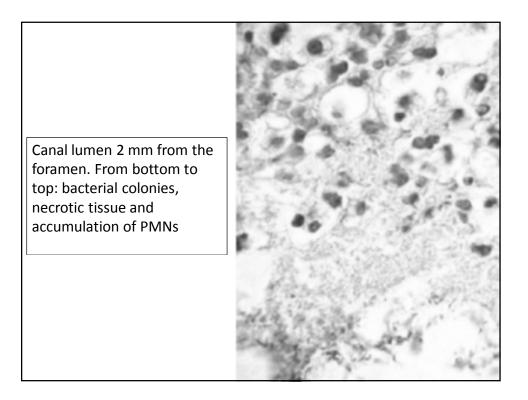
There is growing evidence that despite the presence of a *periapical lesion* the pulp tissue in the apical *part of the root may be vital*.

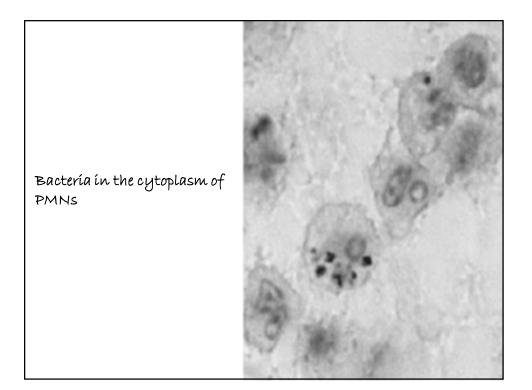


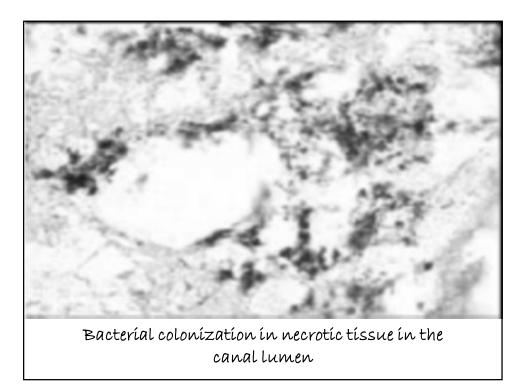


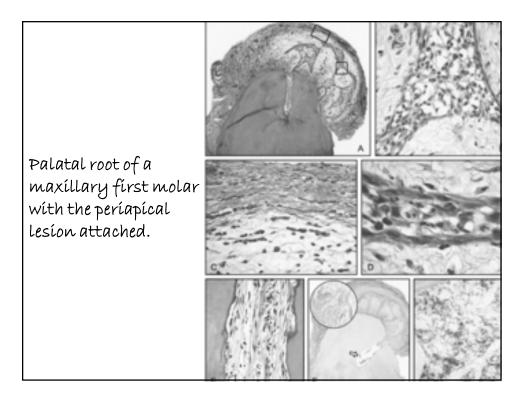


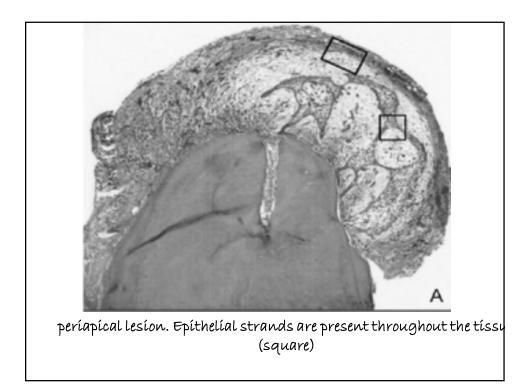


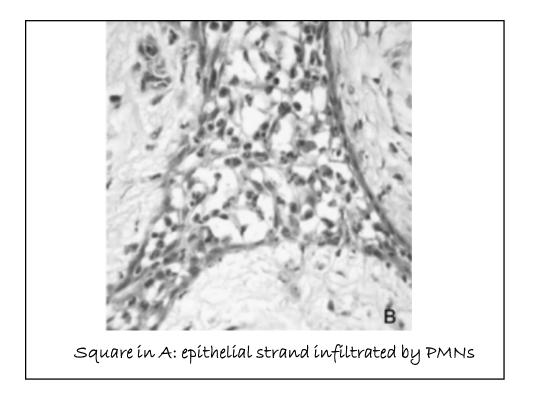


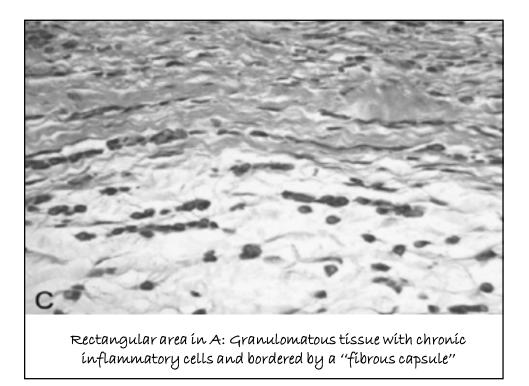


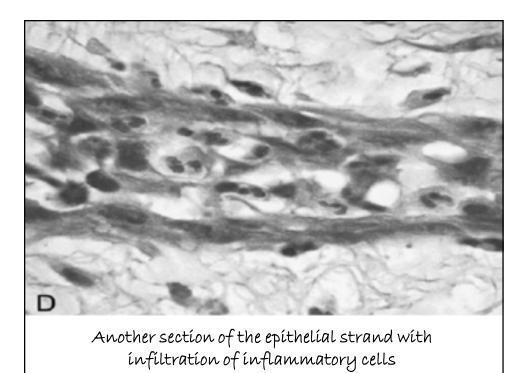


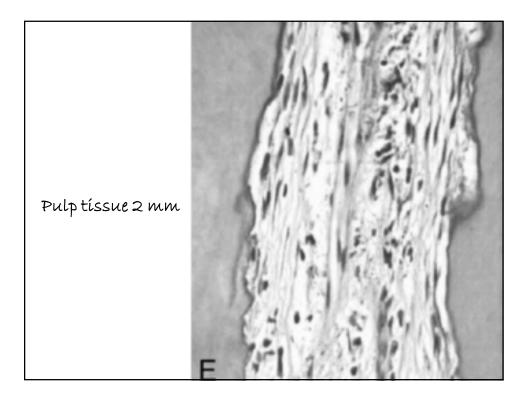




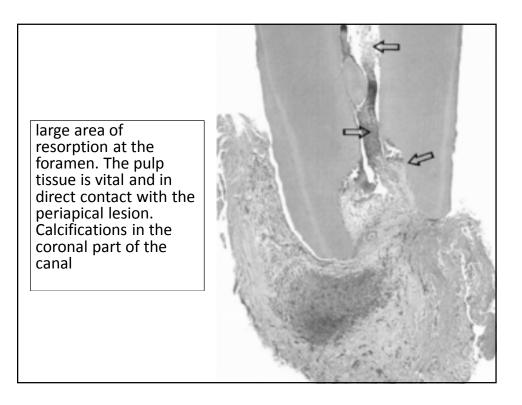


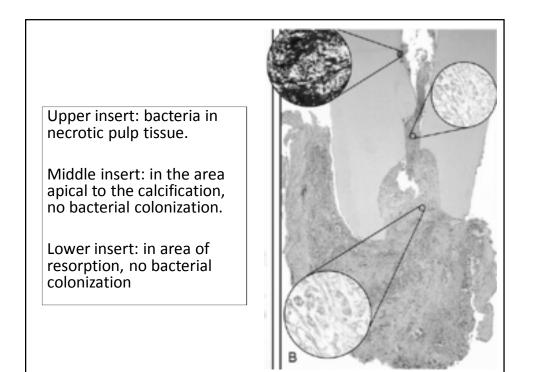




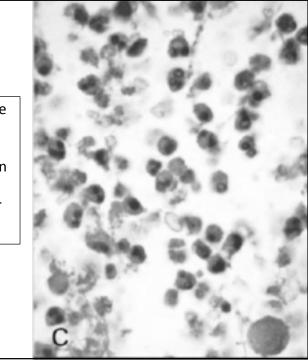


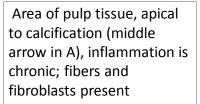


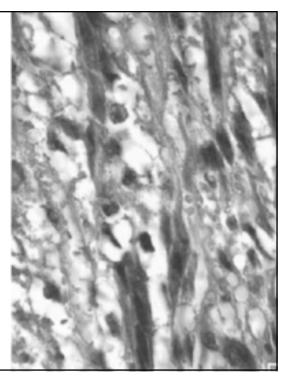


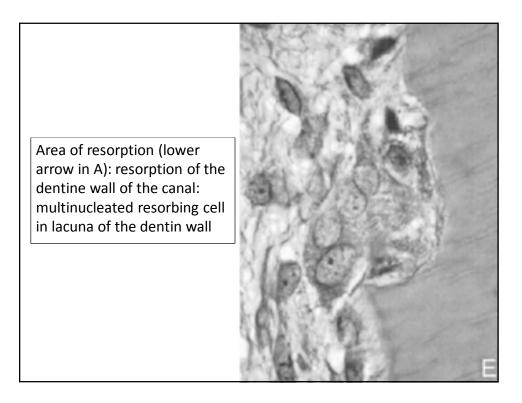


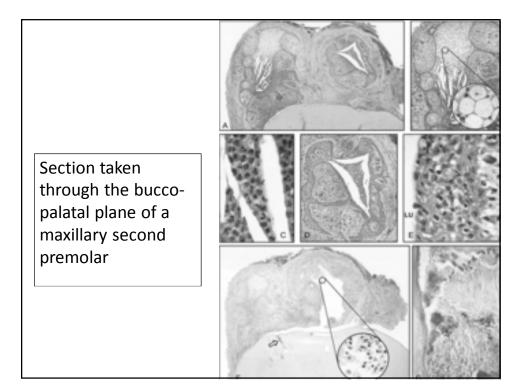
Concentration of acute and chronic inflammatory cells in pulp tissue coronally in the canal, near the necrotic debris (upper arrow in A)



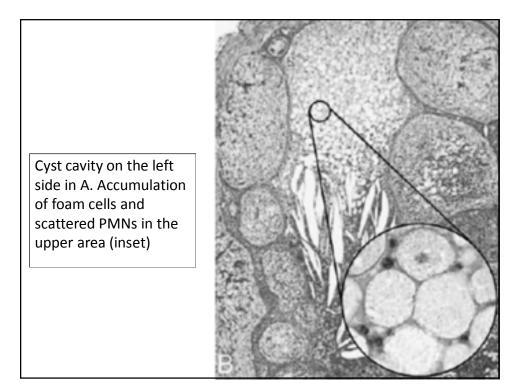


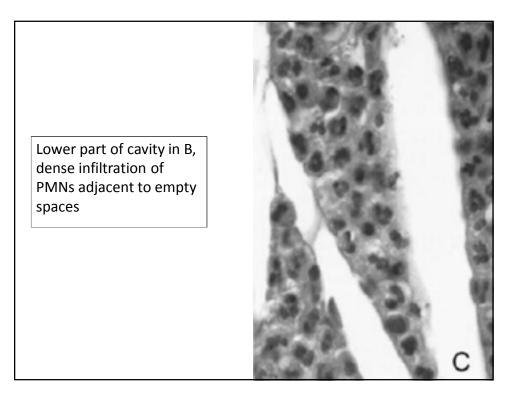


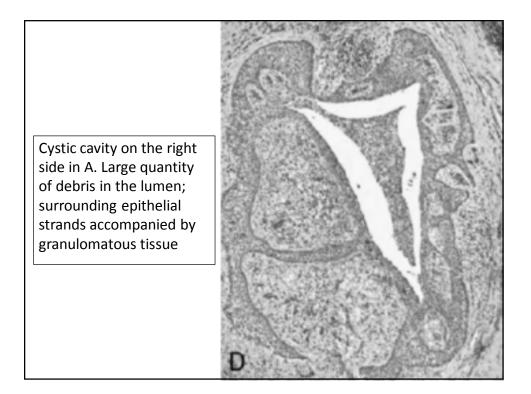


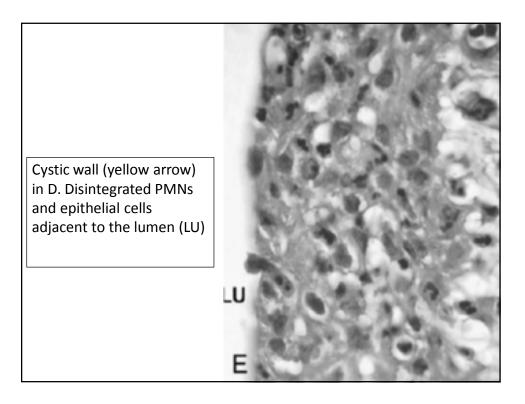


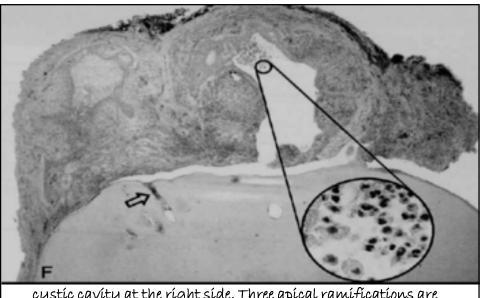




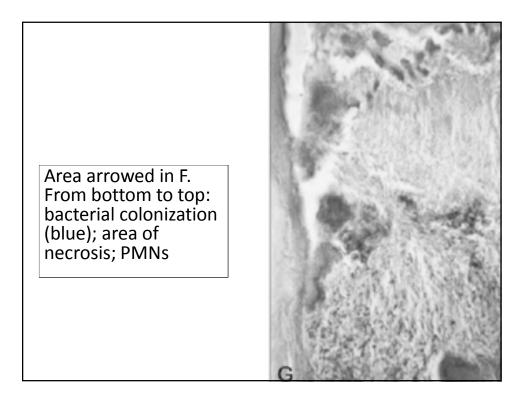


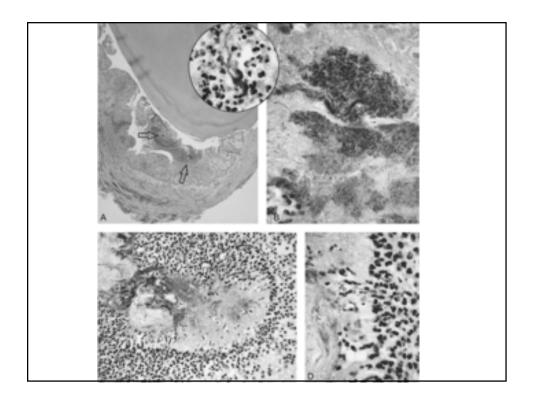


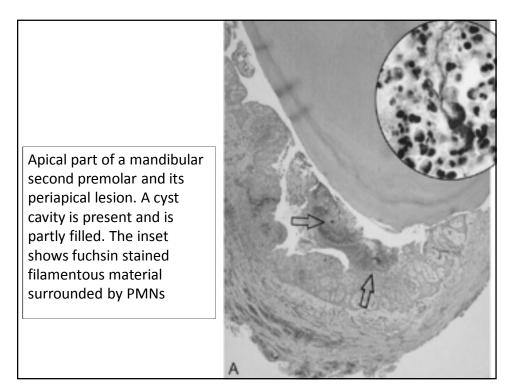


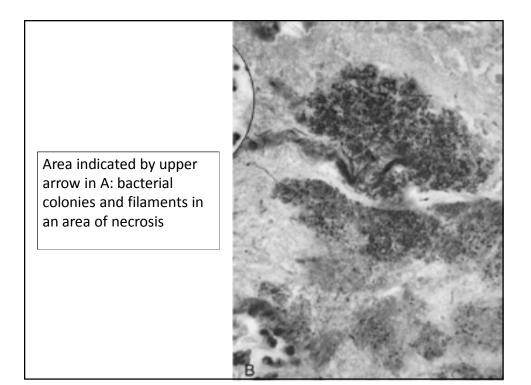


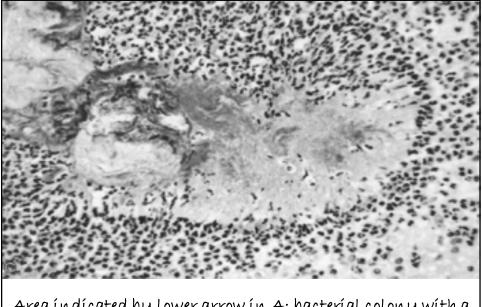
cystic cavity at the right side. Three apical ramifications are present, one of them containing an apical foramen (arrow). Foam cells, PMNs, and necrotic debris inside the cyst (inset), but no bacteria



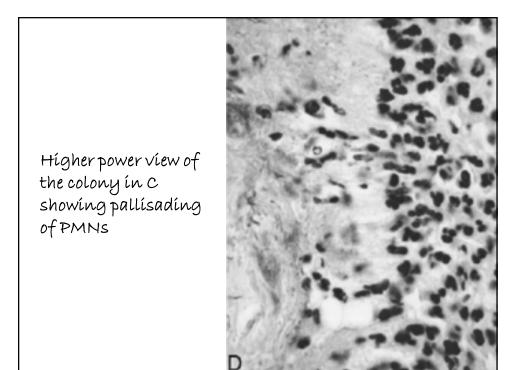




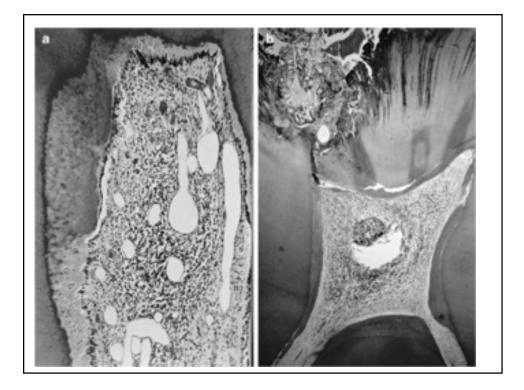




Area indicated by lower arrow in A: bacterial colony with a ray fungus appearance completely surrounded by PMNs

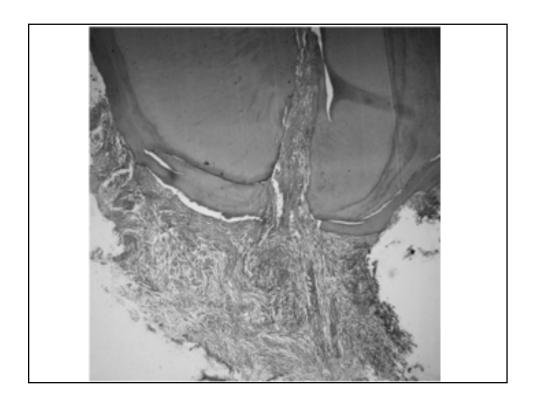












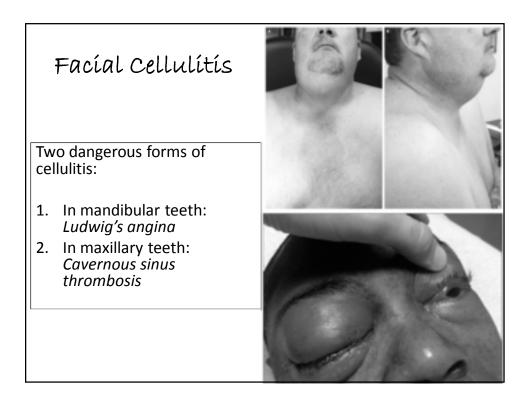


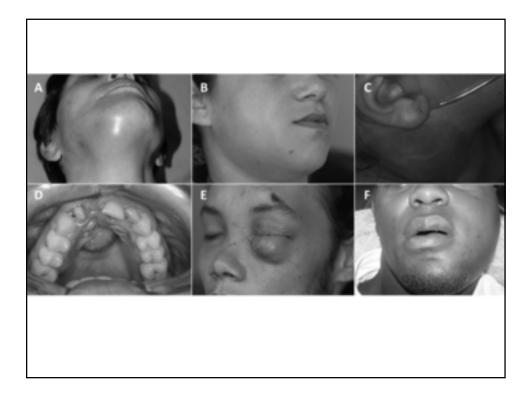
	Etiology	Clinical features	Radiographs	Treatment
Chronic osteomyelitis	Bacteria, mostly	Variable pain, swelling and drainage	Mottled pattern	Appropriate antibiotics, ,sequestrectomy
C.O. with proliferative periostitis	Sequela of tooth abscess, extraction	Usually with lower molar, periosteum involved children	Mottled with concentric periosteal opacities	Tooth removal, antibiotics
Diffuse sclerosing osteomyelitis	Low grade infection, pulpitis, periodontal disease	Occasional pain, swelling, drainage	Opacification throughout jaw	Antibiotics, find cause and treat it
Focal sclerosing osteitis	Low grade focal bone irritation	Asymptomatic, found on routine examination	Opaque mass at root apex	Treat offending tooth

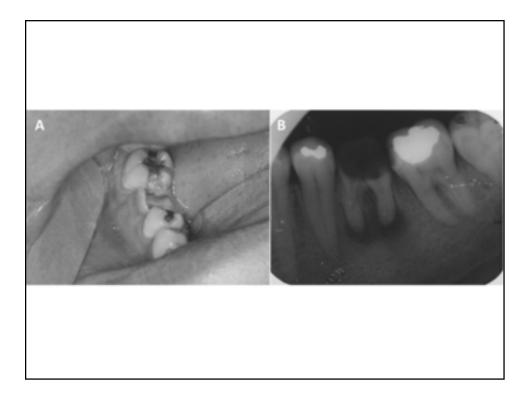


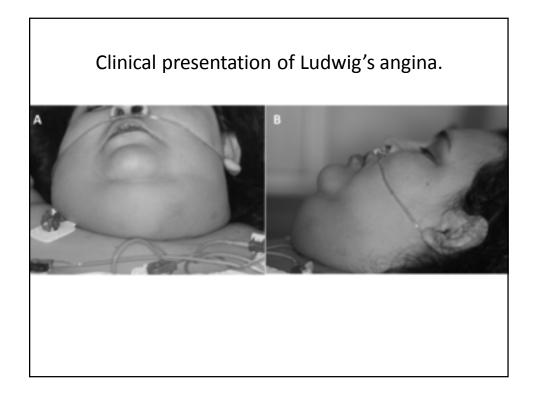
Odontogeníc infection spread to fascial spaces

- 1. Facial Cellulitis
- 2. Ludwig's angina
- 3. Osteomyelitis
- 4. Septicaemia
- 5. Menengitis, brain abscess, cavernous sinus thrombosis







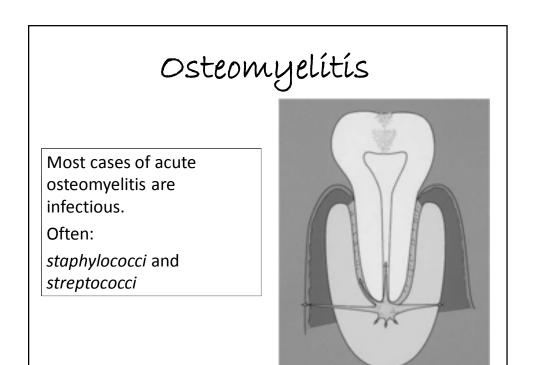


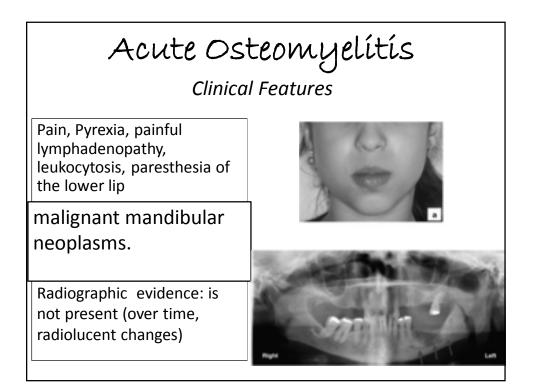


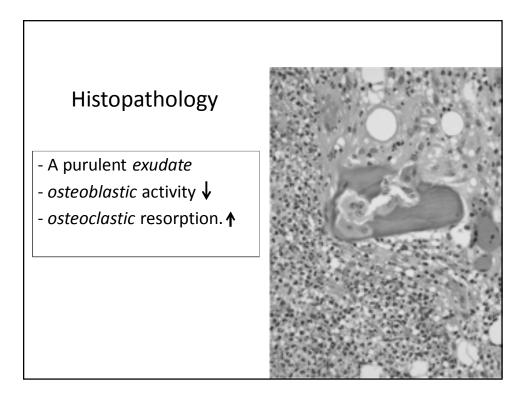
Sequence of drainage of odontogenic infection – case 1. Note that the most dependent part (under the swelling) must be incised not the thin most swollen part (to prevent scarring).

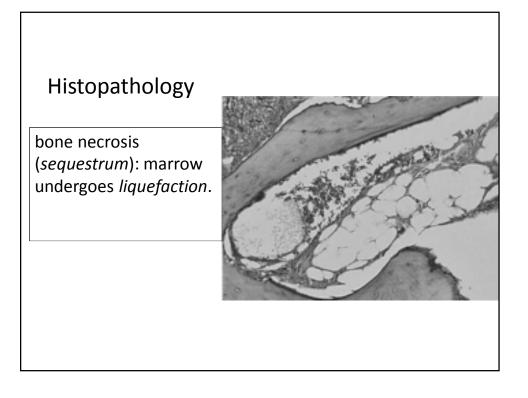
Cavernous sinus thrombosis trt:

- 1. High dose of penicillin.
- 2. Extraction and drainage(if fluctuant).
- 3. Corticosteroid and anticoagulant to prevent thrombosis and septic emboli formation.







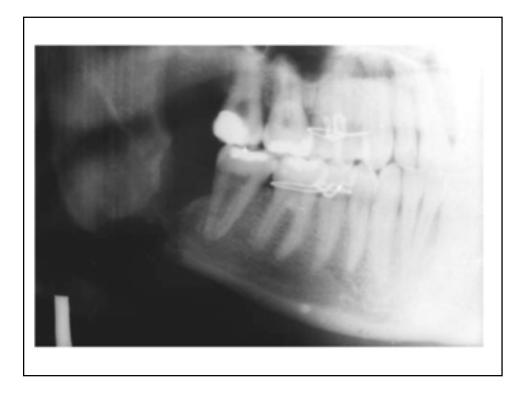


Treatment

- 1. Antibiotics and drainage.
- 2. causative agent is identified
- 3. Surgery: from simple sequestrectomy to excision with autologous bone replacement.

Chronic Osteomyelítis

	Etiology	Clinical Features	Radiographs	Treatment
Chronic osteomyeiltis	Most infectious (bacteria)	Variable pain, swelling, drainage	Lucent or mottled pattern	Appropriate antibiotic, sequestrectomy
Chronic osteomyeiitis with proliferative periostitis	Sequela of tooth abscess, extraction	Usually associated with lower molar; perios- teum involved; children	Lucent or mottled pattern with concentric periosteal opacities	Tooth removal, antibiotics
Diffuse sclerosing osteomyelitis	Probably low-grade infection, pulpitis, periodontal disease	Occasional pain, swelling, drainage; mandible	Opacification through- out jaw	Antibiotics; find cause and, if possible, treat
Focal sclerosing ostettis	Low-grade focal bone initation (e.g., pulpitis)	Asymptomatic; found on routine examination	Opaque mass, usually at root apex	Treat offending tooth



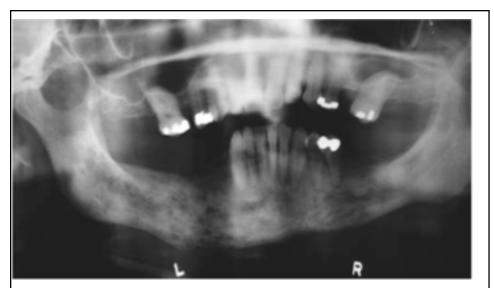


Figure 13-8 Chronic osteomyelitis of the mandible associated with eriodontal disease. Note moth-eaten radiolucent appearance.

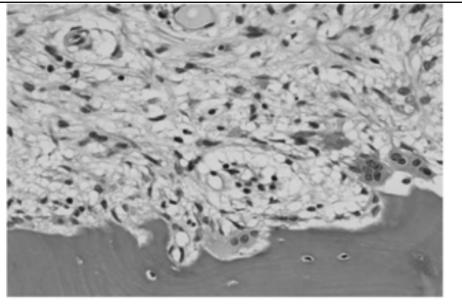


Figure 13-9 Chronic osteomyelitis showing fibrous marrow and steoclastic resorption of resident bone.

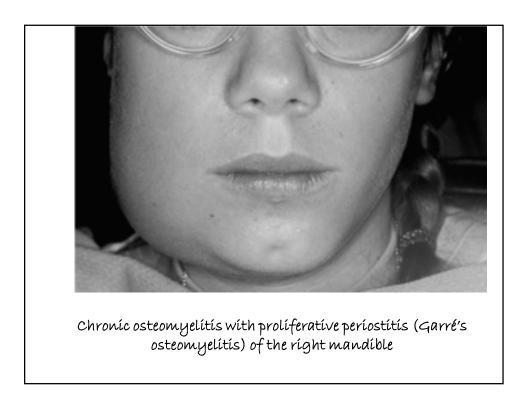
Bisphosphonate-Related Osteonecrosís Rísk Factors **Drug Associated** Systemic Factors High drug dosage 1. Patient medications Long duration of drug usage 2. Cancer chemotherapeutic drugs High drug potency 3. Systemic corticosteroids Intravenous (as opposed to • oral) route of administration 4. Diabetes mellitus **Dental or Local Factors** 5. Smoking Poor oral hygiene 6. Renal dialysis **Ill-fitting dentures** 7. Obesity Periodontal disease 8. Older age Dentoalveolar infection

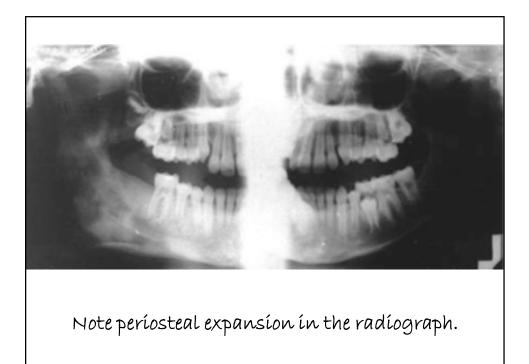
TABLE Bisphosphonates Currently Prescribed						
Generic Name	Brand Name	Route of Administration				
Pamidronate	Aredia	Intravenous				
Alendronate	Fosamax	Oral				
Ibandronate	Boniva	Oral				
Risedronate	Actonel	Oral				
Zoledronic acid	Zometa, Reclast, Aclasta	Intravenous				
Clodronate Etidronate	Bonefos Didronel	Oral/Intravenous Oral				

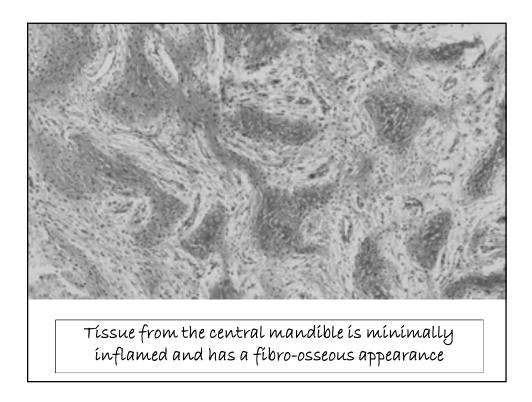


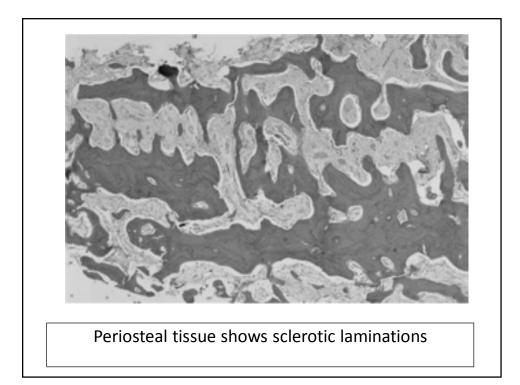


Chronic Osteomyelítis with Prolíferative Periostitis (so-called Garré's Osteomyelítis)



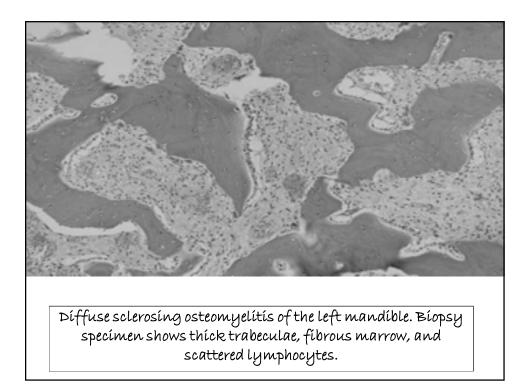






Díffuse Sclerosing Osteomyelítis

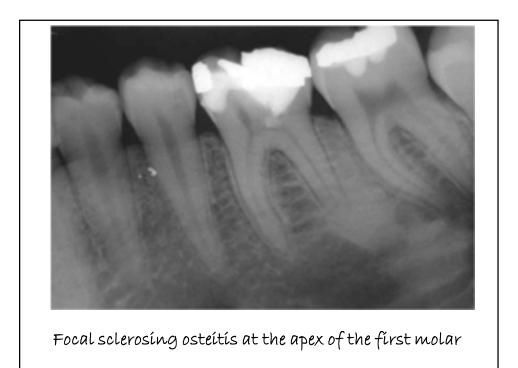
an inflammatory reaction in the jaws, occur in response to a microorganism of low virulence.

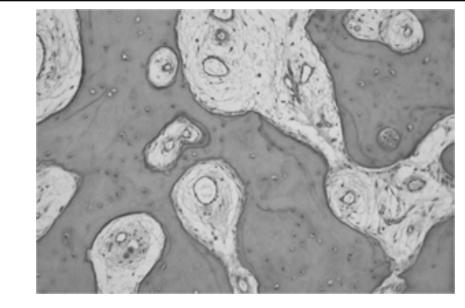






Focal sclerosing osteítis. Residual after tooth extraction.





Focal sclerosing osteitis. Biopsy specimen shows dense sclerotic trabeculae and fibrous marrow with a few lymphocytes



