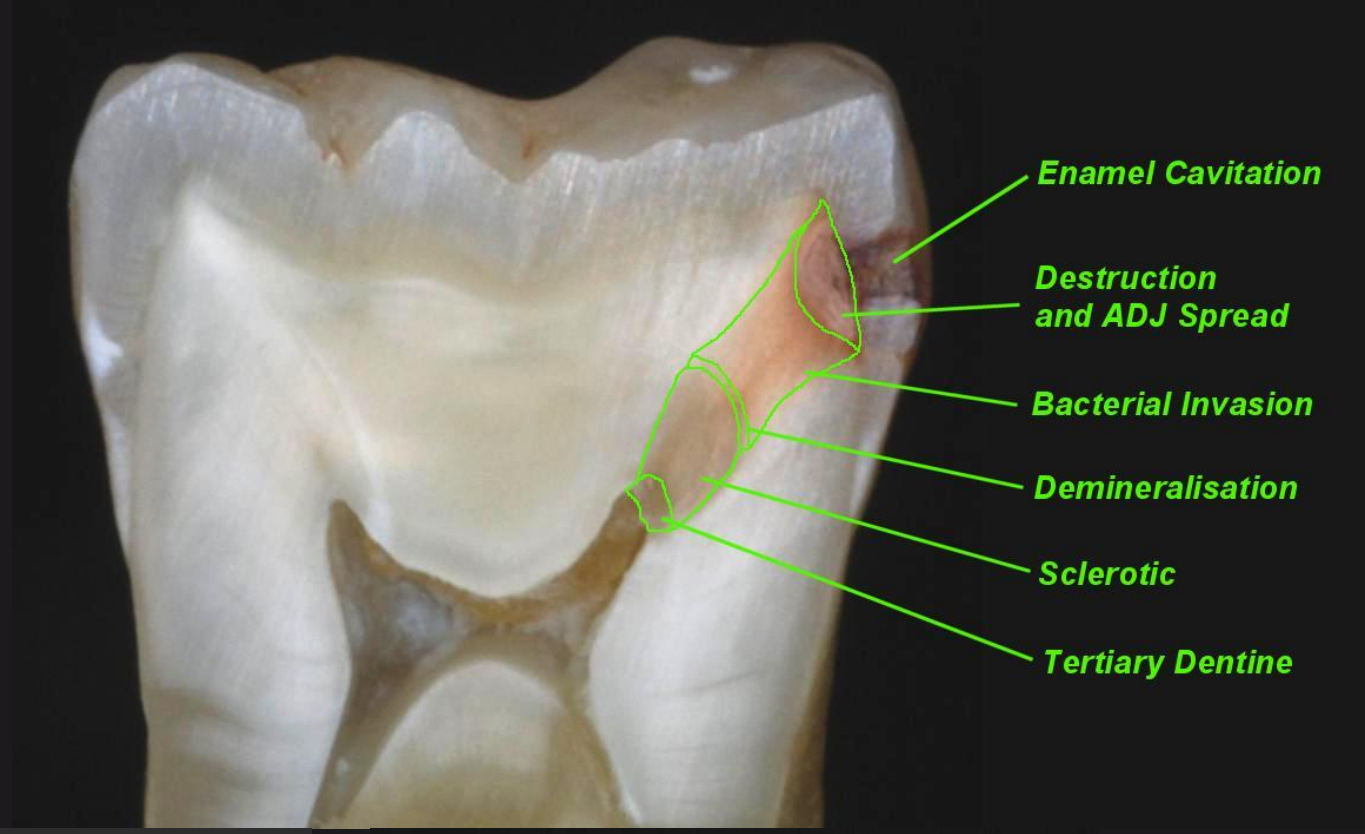
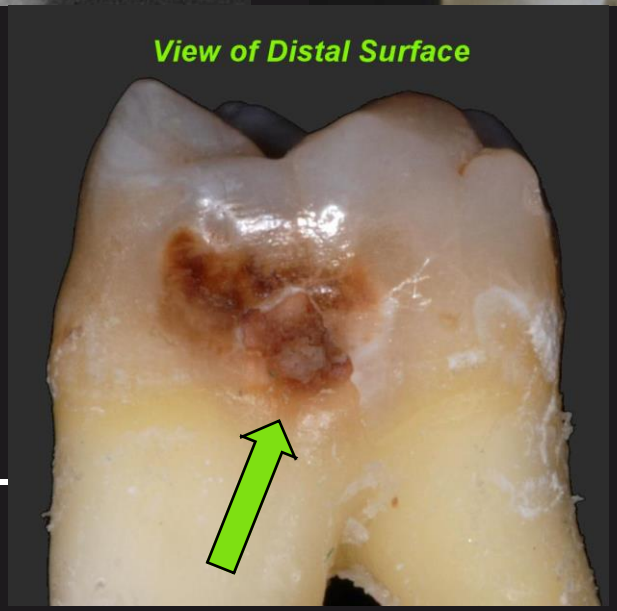
Radiographic Diagnosis Of Dental Caries

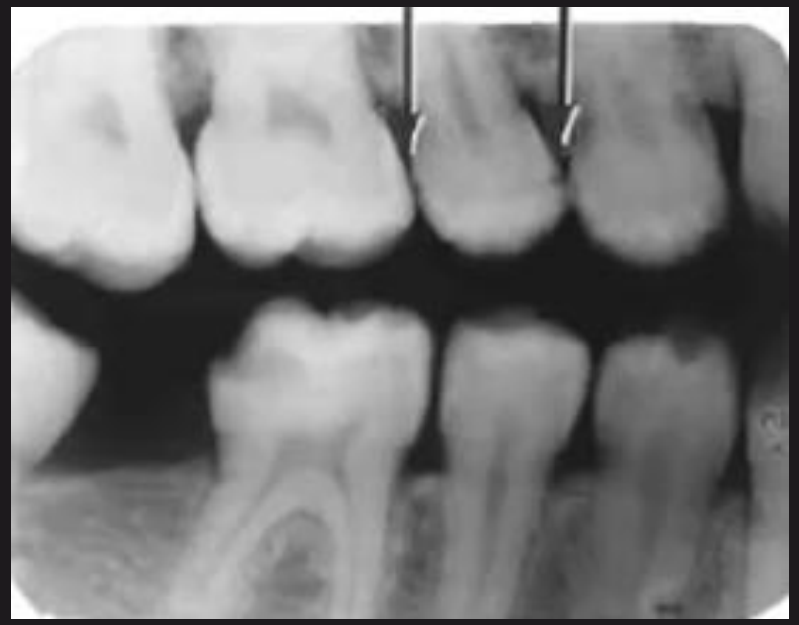
Dr. Farnoosh Khaksari

Oral And Maxillofacial Radiologist


Enamel Cavitation
Destruction and ADJ Spread
Bacterial Invasion
Demineralisation
Sclerotic
Tertiary Dentine


View of Distal Surface

BW

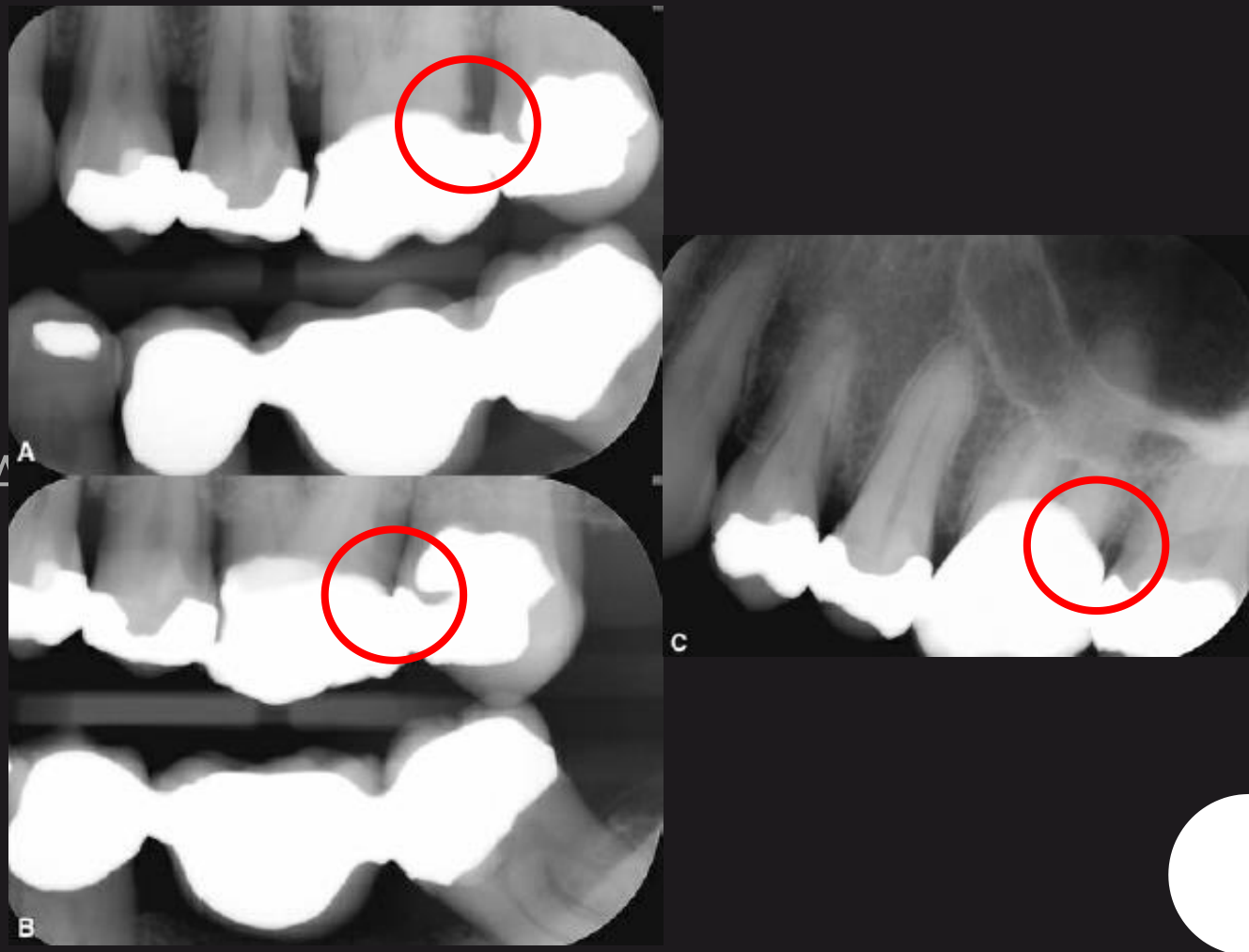


PA (parallel)

PA(bisecting angle)

Factors affecting the detection of dental caries:

- Two dimensional image
- Buccolingual thickness of tooth
- Exposure factors ⟶ kVp / mA
- X-ray tube angle ⟶ vertical /



Is the geometry of the images correct or not?

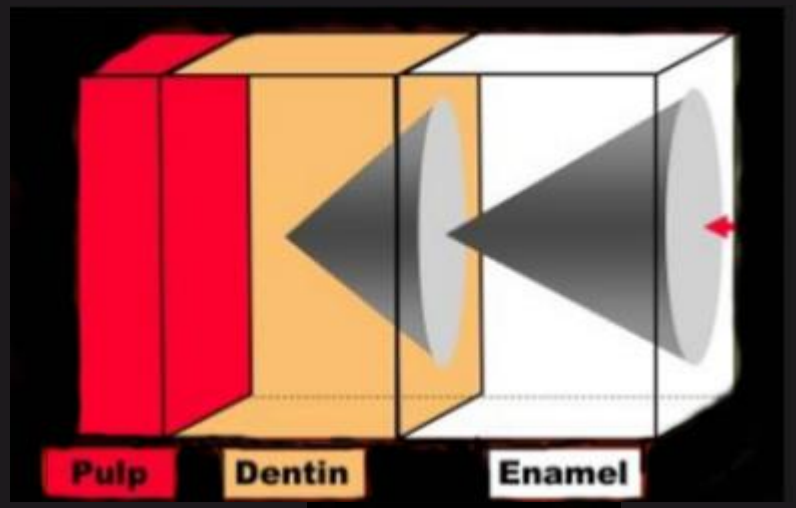
Superimposition of buccal and lingual cusps

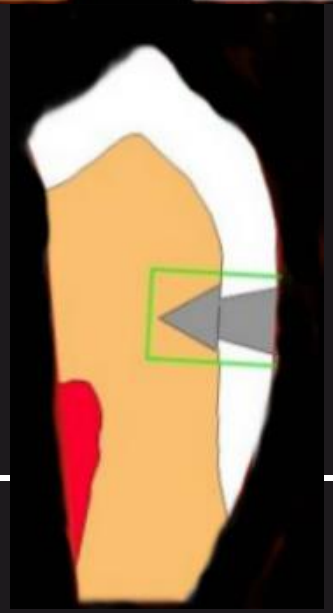
Open interproximal contacts

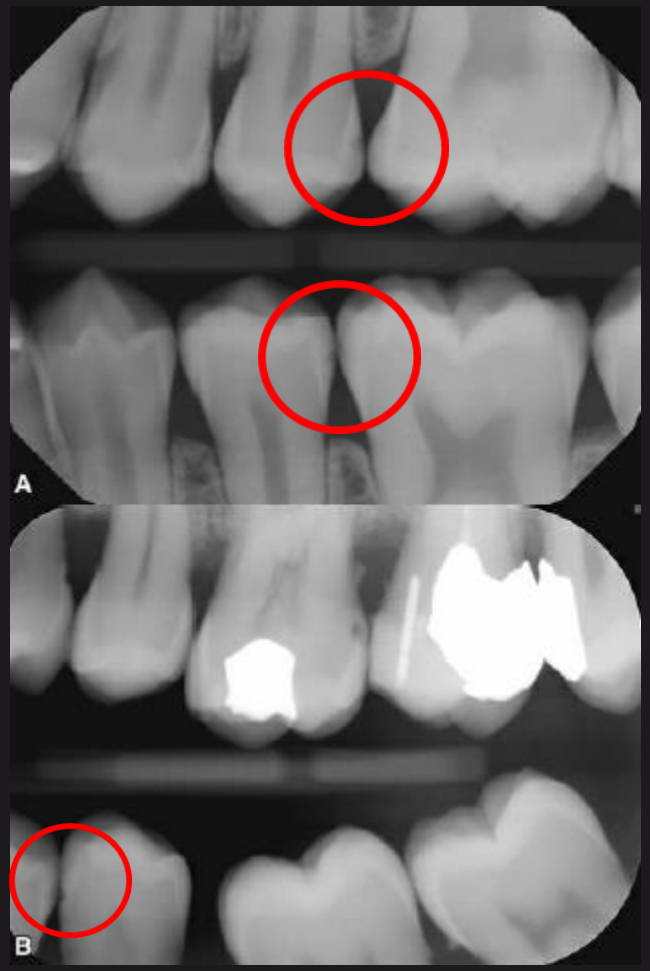
Superimposition of buccal and lingual alveolar crests

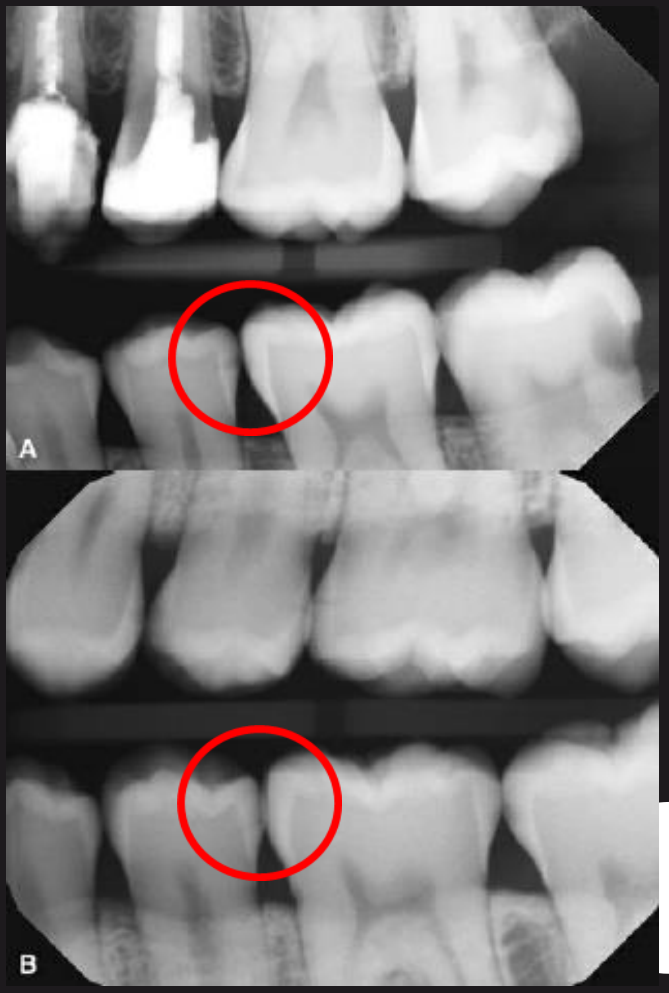
❑ *Detection of Carious Lesions*

Proximal Surfaces



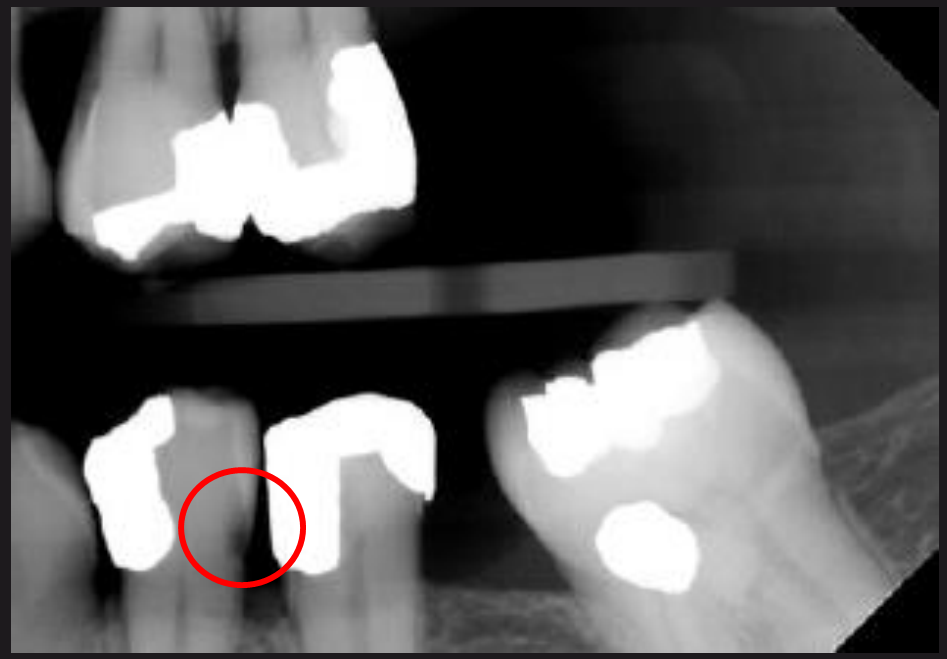






❑ *Detection of Carious Lesions*

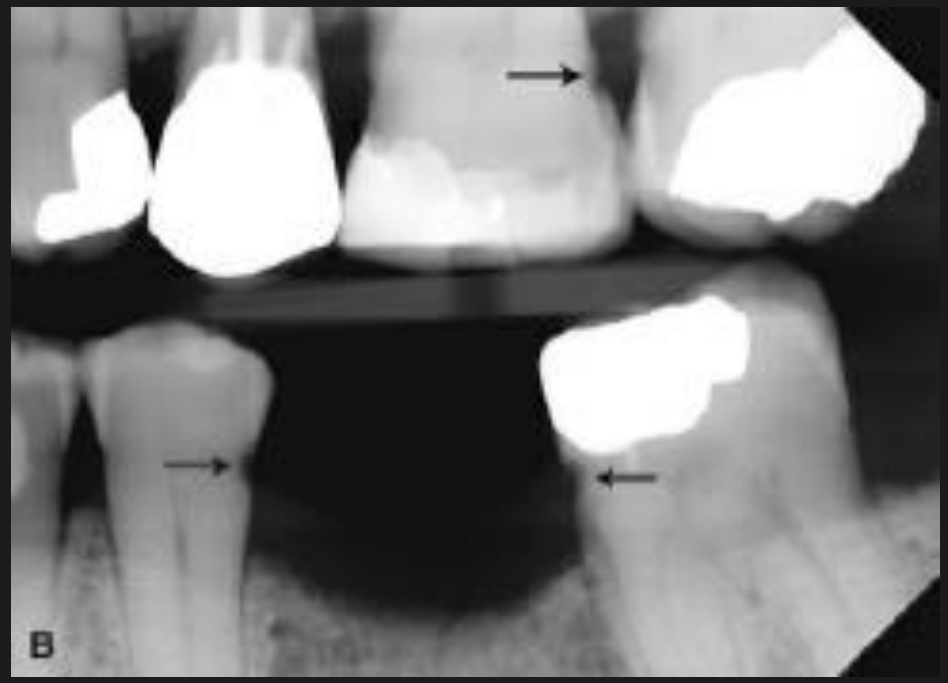
Proximal Surfaces



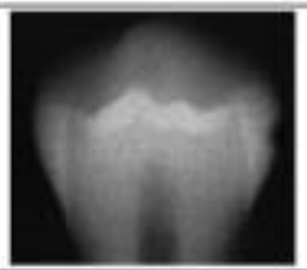
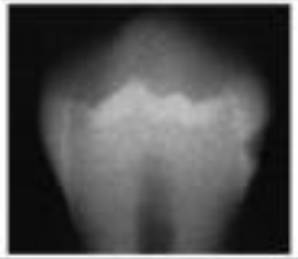
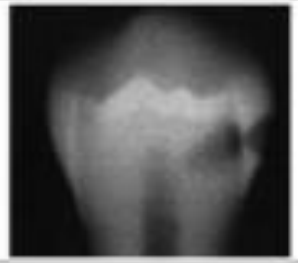
❑ *Detection of Carious Lesions*

False-Positive Interpretations

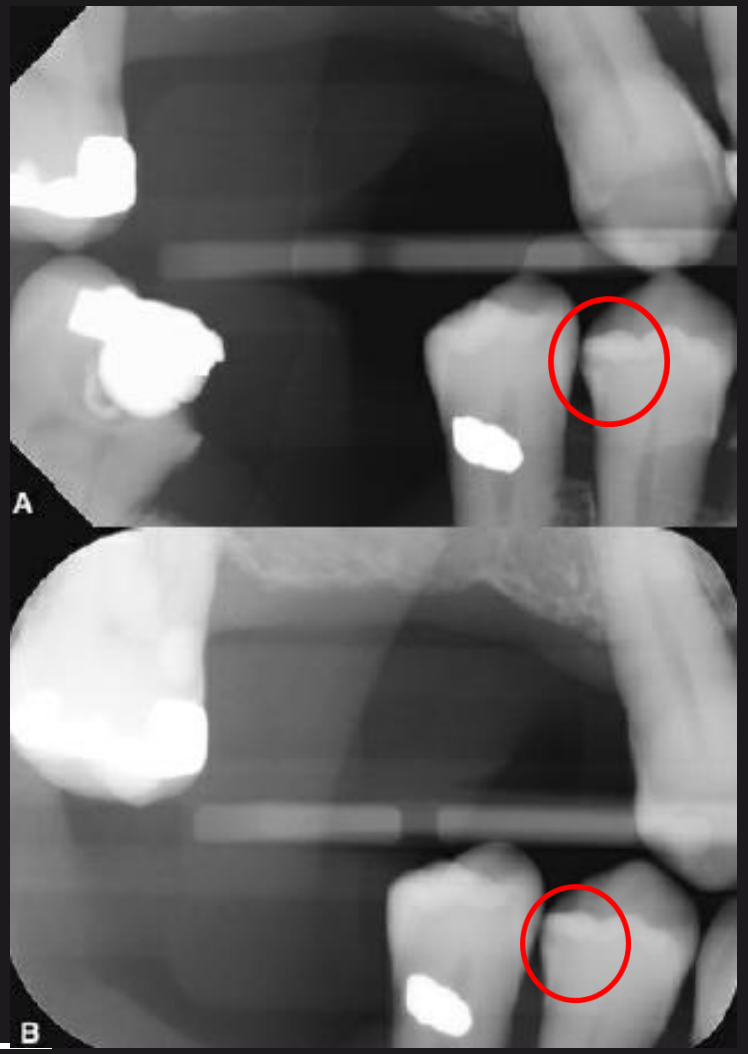
Cervical burnout



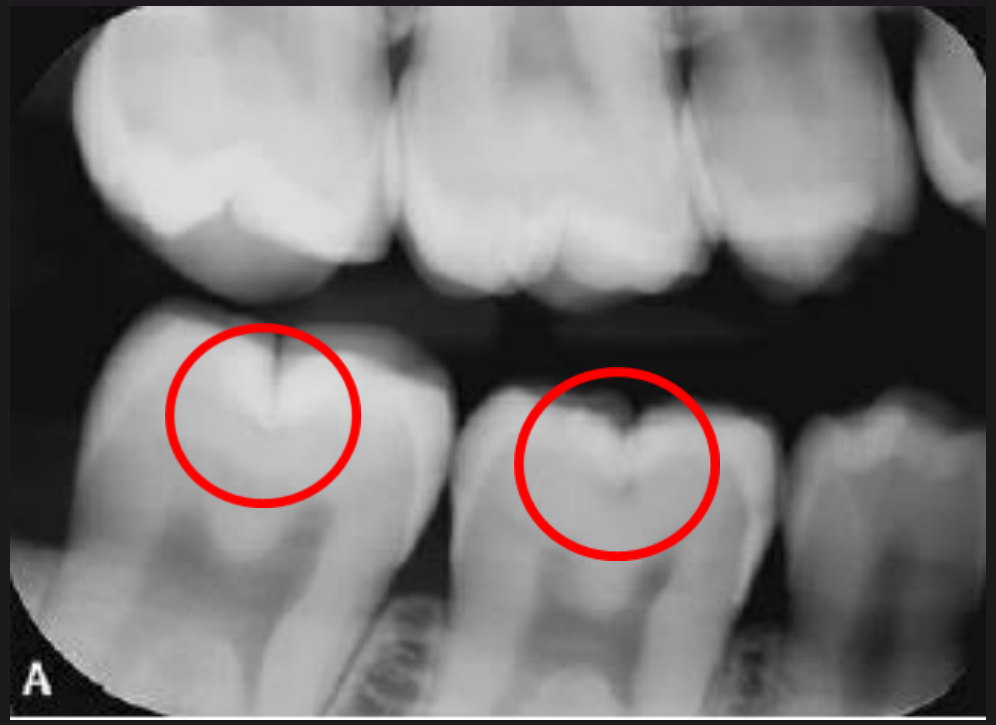
❑ *Staging and Cavitation*

Stages	Illustration	Radiographs
Incipient		
Moderate		
Advanced		
Severe		

Arrested caries



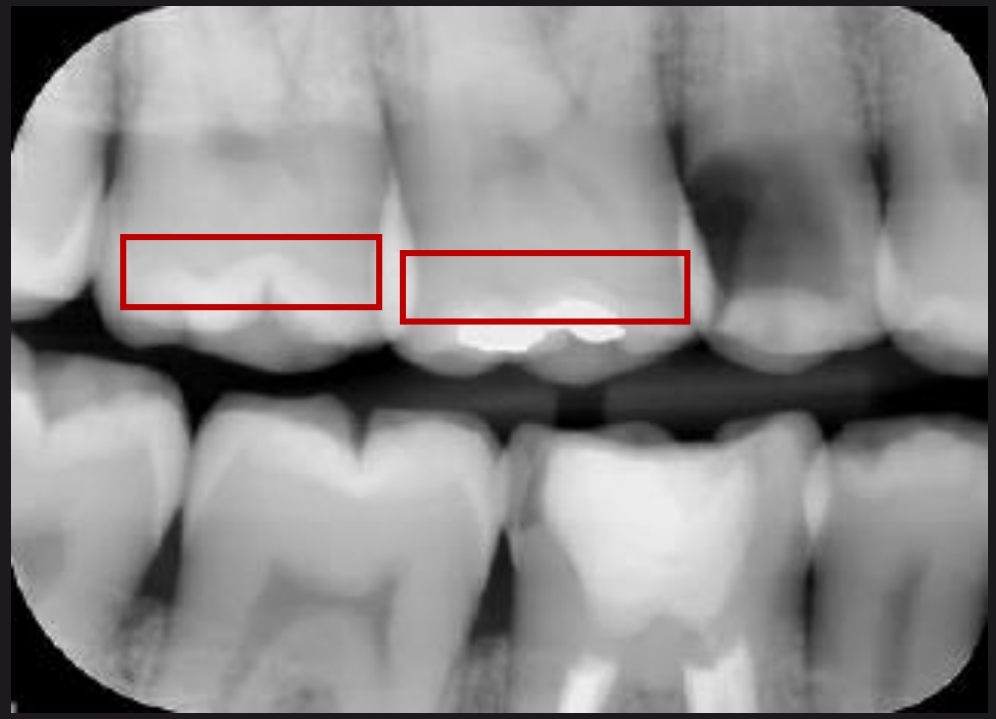
❑ *Detection of Carious Lesions*
Occlusal Surfaces



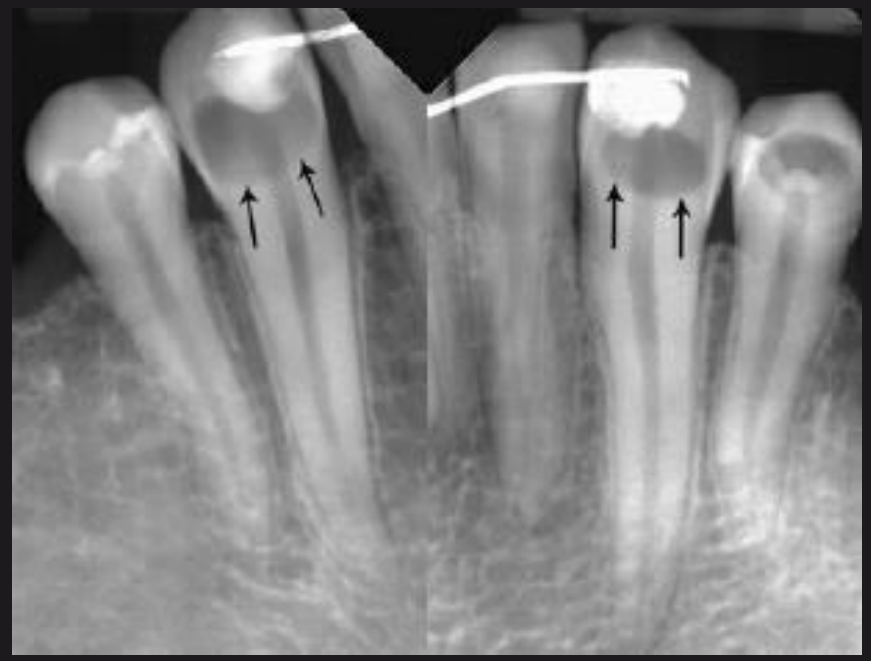
❑ *Detection of Carious Lesions*

False-Positive Interpretations

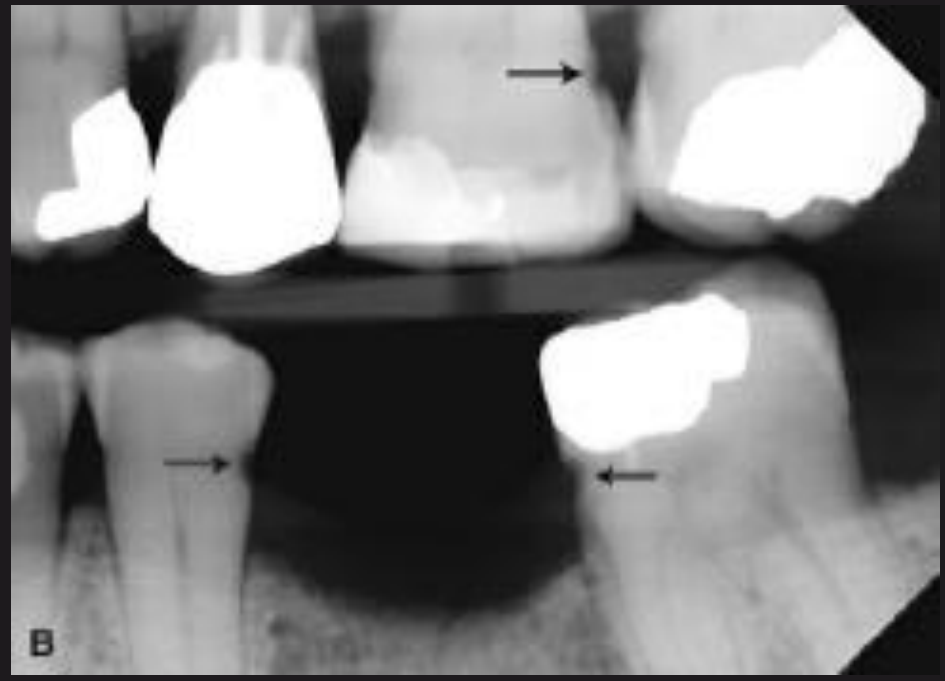
Mach-band effect



❑ *Detection of Carious Lesions*
Buccal and Lingual Surfaces

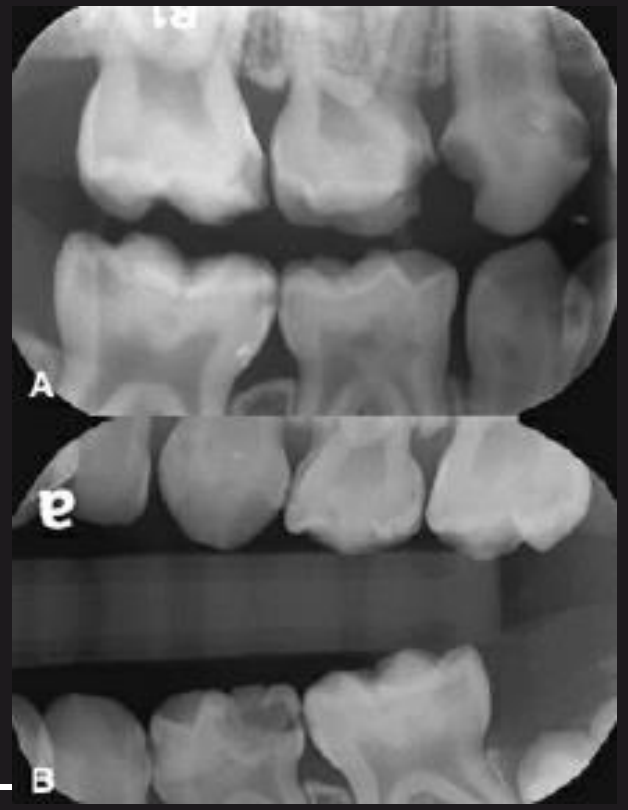


❑ *Detection of Carious Lesions*
Root Surfaces

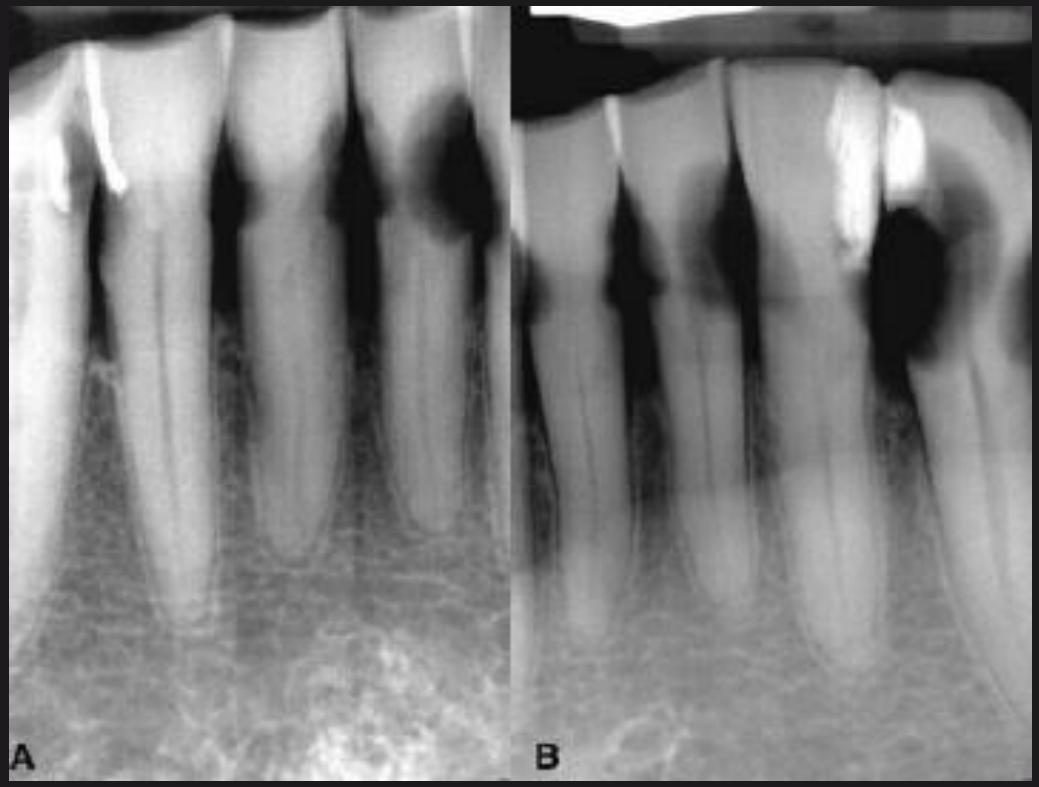


❑ *Detection of Carious Lesions*

Rampant Caries

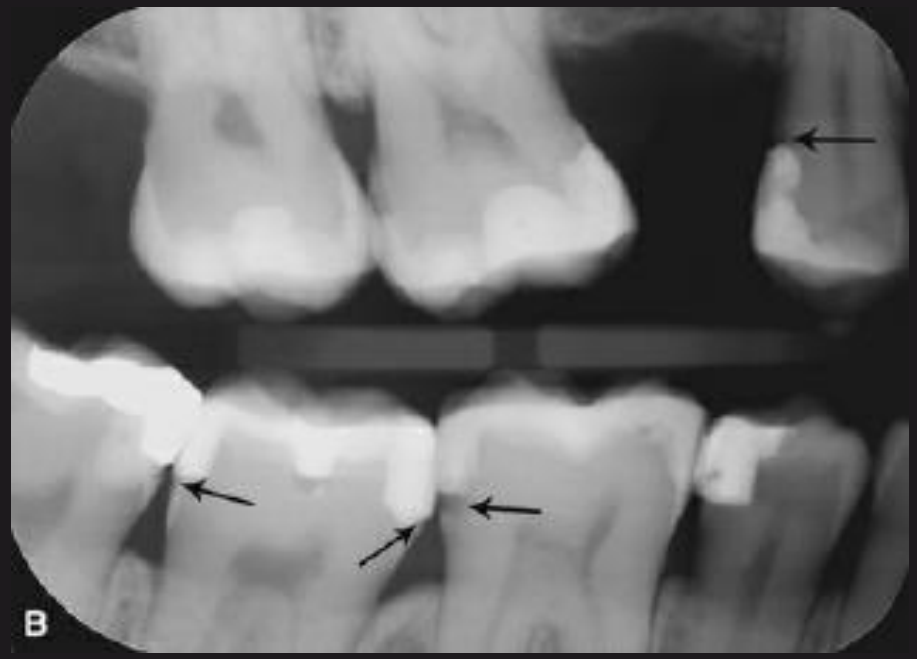


- *Detection of Carious Lesions*
  - *Rampant Caries*
  - *Radiation caries*



❑ *Detection of Carious Lesions*

Recurrent caries

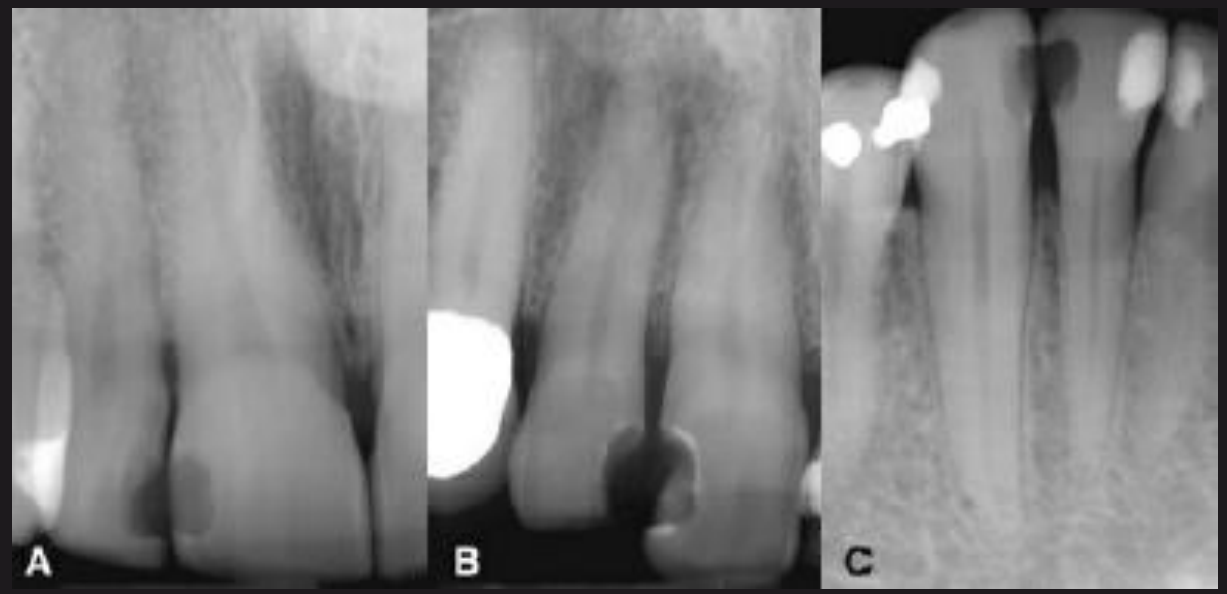


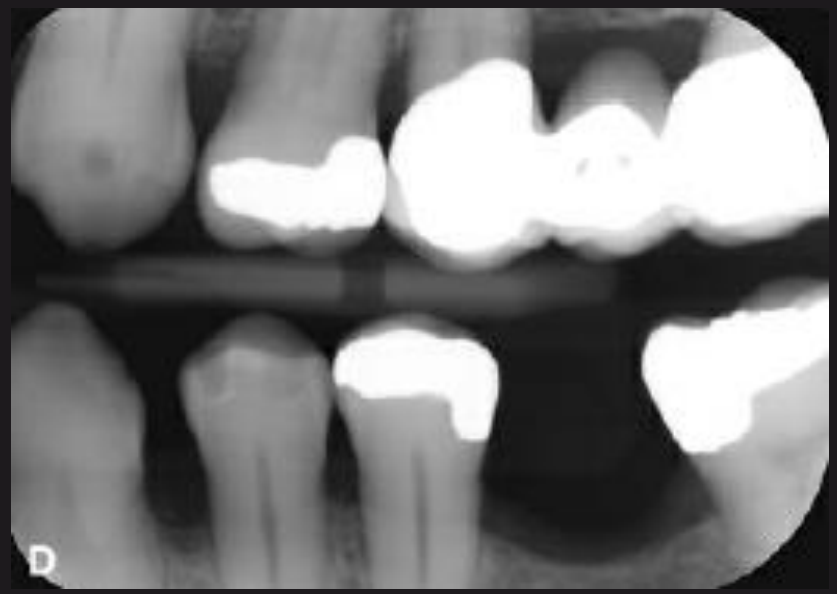
❑ *Detection of Carious Lesions*

Recurrent caries

❑ *Detection of Carious Lesions*

Dental materials





موفق باشید