



Radiographic Contrast



- The difference in densities between adjacent areas of the image
- Influenced by:
 - Subject contrast
 - Film contrast
 - Beam energy and intensity
 - Fog and scatter radiation



Radiographic Contrast

- By adjusting kVp, contrast can be varied
 - High contrast films can enhance detection of lesions where subject contrast between the lesion and healthy tissue is low
 - Examples include:
 - Caries
 - Apical lucencies

Radiographic Contrast

- By adjusting kVp, contrast can be varied
 - Low contrast films can enhance detection of subtle findings.
 - Examples include:
 - Calculus
 - Soft tissue outlines
 - Small changes in crestal bone

Radiographic Density

- The overall degree of darkening of the radiographic image. Three factors which determine radiographic density are:
 - Exposure
 - Subject thickness
 - Object density

Radiographic Density

Exposure

- Determines the # of photons that are absorbed by the emulsion
- Four exposure factors
 - ◆ kVp
 - ma
 - Impulses (time)
 - Source to film distance











































Supporting Structures of the Teeth



The joint between the tooth and the bone is a **gomphosis**. The periodontal ligament allows for movement around a center of rotation. Supporting Structures of the Teeth

Lamina dura and PDL









Landmarks in the Maxilla Incisive foramen Median palatine suture Pterygoid plates



Landmarks in the Maxilla

- Anterior nasal spine
- Zygomatic process
- Pterygoid plates
- Coronoid process of the mandible
- Nasolabial fold





























Landmarks in the Maxilla * Lateral fossa



















Pneumatization. From the Latin "filled with air" Expansion of sinus wall into surrounding bone, usually in areas where teeth have been lost prematurely. Increases with age.









Maxillary Tuberosity. The rounded elevation located at the posterior aspect of both sides of the maxilla.









Andmarks in the Mandible

- Myionyoid (Internal oblique) ridge
 Cubrana dibulari
- Submandibular gland fossa
 Inferior border of the mandible



Landmarks in the Mandible • External oblique ridge • Inferior border of the mandible • Genial tubercles • Mental Ridge



























Landmarks in the Mandible • External oblique ridge • Internal oblique ridge (a.k.a mylohyoid ridge)



radiopaque ridge is the attachment for the mylohyoid muscle. The ridge runs downward and forward from the third molar region to the area of the premolars.





border of the ramus, passing downward and forward on the buccal side of the mandible. It appears as a distinct radiopaque line which usually ends anteriorly in the area of the first molar. Serves as an attachment of the buccinator muscle. (The red arrows point to the mylohyoid ridge).



The mandibular canal (red arrows identify inferior border of canal) usually runs very close to the roots of the molars, especially the third molar.



















