

DENTAL RADIOGRAPHY

Dental radiography are pictures of the teeth, bones and surrounding soft tissues to:

- screen for diagnose purposes.
- show cavity and hidden dental structures such as wisdom teeth.
- assess root morphology before extractions.
- assist during endodontics procedure.
- assess preoperative and postoperative appraisal of apical surgery.
- evaluate apical cysts and other lesions within the alveolar bone.
- evaluate implants postoperatively.

PANORAMIC RADIOGRAPHY



To detect and localise mandibular fractures and other pathologic entities of the mandible (except periodontal bone loss or tooth decay).

PANORAMIC X-RAY PROCEDURE & IMAGE PROCESSING



3 TYPES OF INTRA-ORAL RADIOGRAPHY



- Periapical Radiography – Pa
- Bitewings Radiography – Bws
- Occlusal Radiography - Occl

INTRA-ORAL X-RAY PROCEDURE & FILM PROCESSING



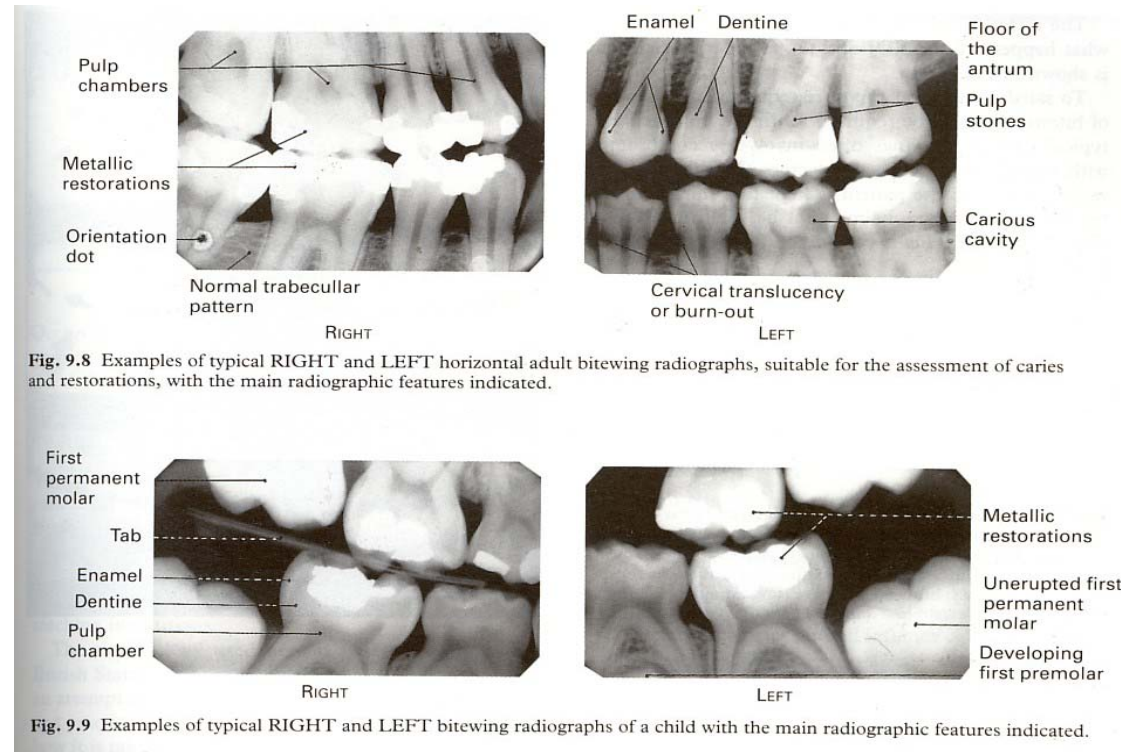
PERIAPICAL RADIOGRAPHY (Pa)



Purpose:

- Detection of apical infection / inflammation.
- Assessment of periodontal status.
- Assessment to teeth and associated alveolar bone after trauma.
- Assessment of presence and position of unerupted teeth.

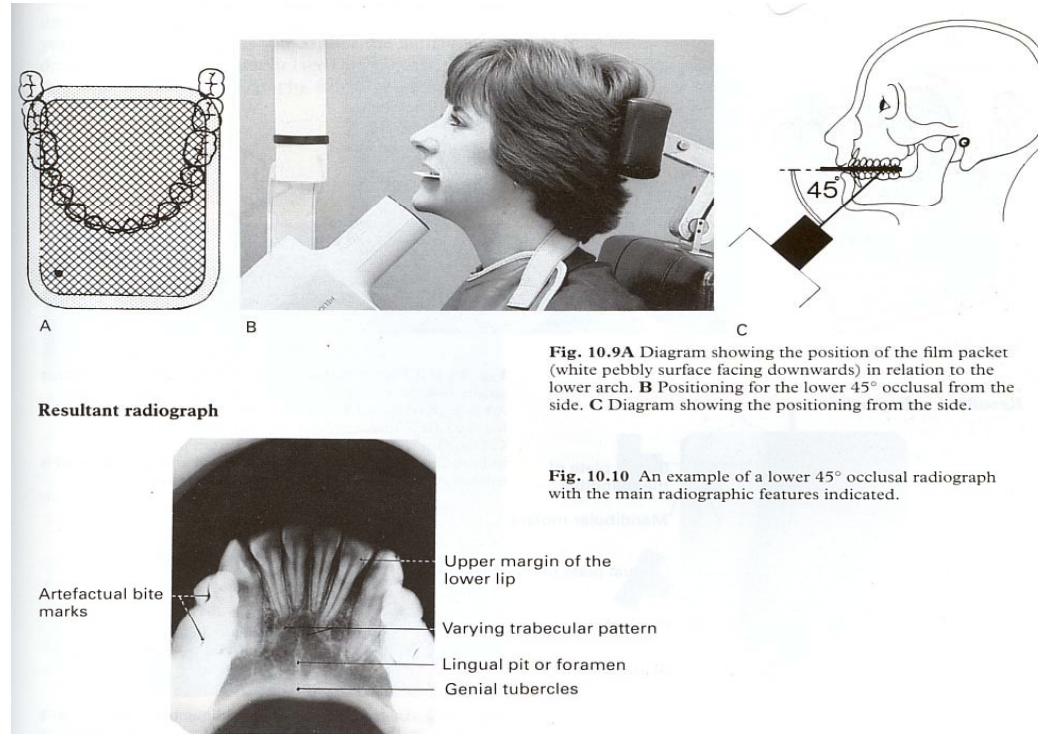
BITEWINGS RADIOGRAPHY



Purpose:

- To demonstrate crowns of both upper and lower teeth making sure the inter-dental spaces are shown adequately.

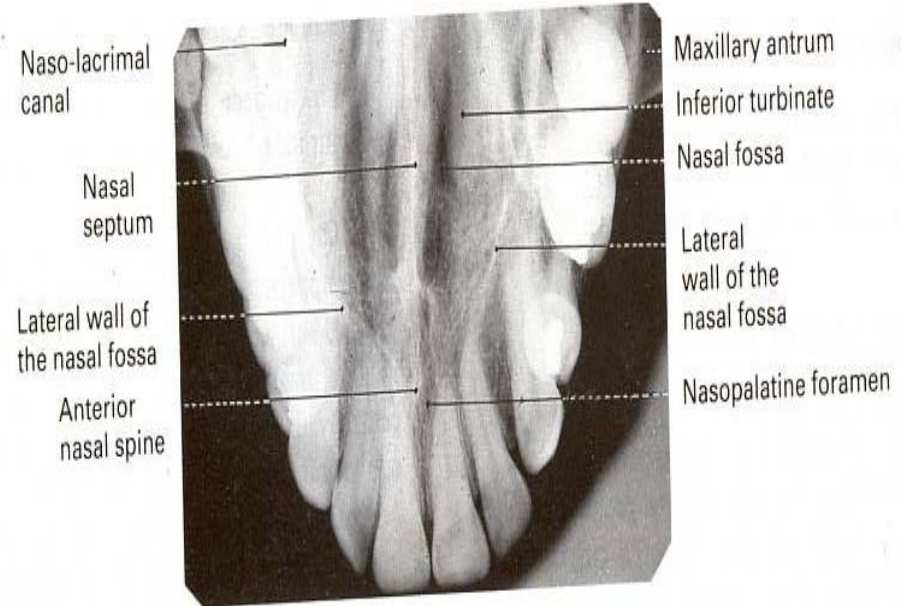
OCCLUSAL RADIOGRAPHY



Purpose:

- Occlusal radiography is intraoral radiography technique to reveal the skeletal or pathologic anatomy of either the floor of the mouth or the palate.

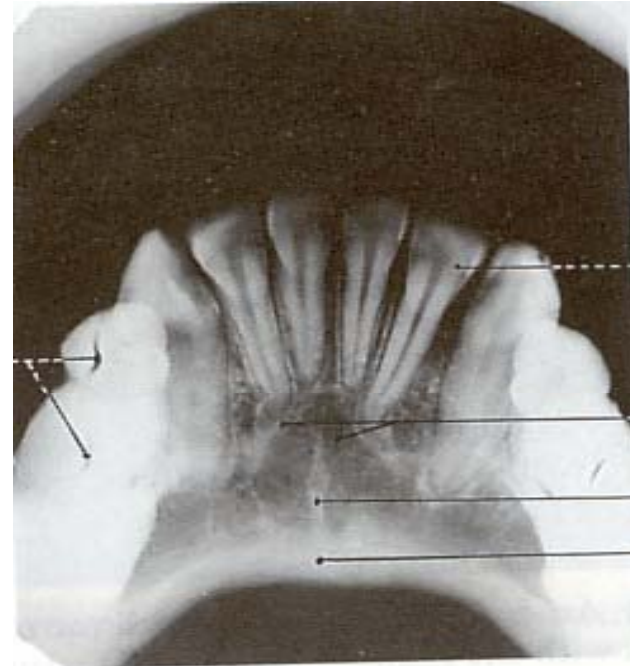
TYPES OF OCCLUSAL RADIOGRAPHY



Upper Standard Occlusal

- Patient have to bite the film during imaging the entire upper teeth while the tube come from the upper part of the patient nose.

TYPES OF OCCLUSAL RADIOGRAPHY



Lower True Occlusal

- These are how the x-ray tube and the film are placed to image the lower part.

CEPHALOMETRIC RADIOGRAPHY

- Cephalometric radiography is a standard and reproducible form of skull radiography used extensively in orthodontics.
- Standardisation is essential for the development of cephalometry.

MAIN INDICATION & IMAGE OF CEPHALOMETRIC



The main clinical indications can be considered under two major headings - orthodontics and orthognathic surgery.

SKULL X-RAY



CONE BEAM CT (CBCT)

- i-CAT puts the **power** of precision in your hands, simply and conveniently with the advancement of 3D treatment tools.
- i-CAT produces **high definition** 3D diagnostic images for ultimate treatment efficiency.
- i-CAT's **flexibility** allows specifically desired scans to manage radiation dose control for the greatest benefit of patients.

CBCT EQUIPMENT & IMAGE PROCESSING



DENTAL TEAM

