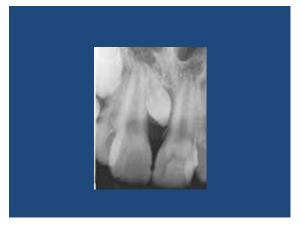
OBJECT LOCALIZATION



INTRODUCTION

- It is used for the localization of foreign object or an impacted tooth within the jaw.
- Dental radiograph 2d image
- IOPA orientation either superoinferior or anteroposterior direction
- Occlusal radiograph Buccolingual direction , anteroposterior direction
- Necessary for 3d imaging

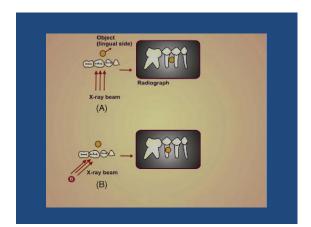
INDICATIONS

- 1. Foreign objects
- 2. Salivary gland stones
- 3. Impacted teeth
- 4. Root piece
- 5. Filling material
- 6. Broken needle

CLARK's RULE

(tube shift cone technique, SLOB technique)

 Based on principle of parallax – When an object is viewed from two different positions, the object appears to move in different directions.



- Two radiographs are taken
- First taken with the usual horizontal angulation (reference radiograph)
- Second slight change in the horizontal angulation.

In the second radiograph:

- If the object in question appears to move towards the side the tube is shifted on the lingual side.
- If the object in question moves in the direction opposite to the tube on the buccal side.

SLOB – same lingual, opposite buccal

RADIOPAOUE WIRES TECHNIOUE

- In case of edentulous region
- Radiopaque wires of different shape are placed in a sheet of wax that is moulded over the edentulous area as denture base.
- SLOB technique

BUCCAL OBJECT RULE:

- Richard 1952
- · Same as Clark rule

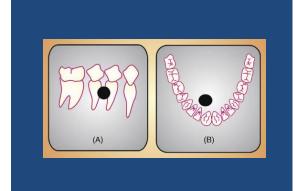
RIGHT ANGLE TECHNIQUE/MILLER'S RIGHT ANGLE TECHNIQUE

- This technique employs two projections of the same object taken at right angle to each other
- One standard IOPA and one occlusal radiograph
- IOPA inferior/superior and anterior/posterior direction
- Occlusal radiograph bucco/lingual and anterior/posterior position

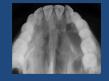




- Object in question is located in relation with an anatomical landmark which is used as the reference object in both the radiographs.
- Now both the radiographs are interpreted simultaneously to localize its three-dimensional position.



- More useful in the mandibular region since cross-sectional view is possible
- Maxilla superimposition (anterior part of the skull, maxillary and nasal bone)





STEREOSCOPY:

- Requires exposure of two films
- Double amount of radiation dose to the patient

- Between exposure, film is changed
- Film is shifted from right eye to left eye
- After processing, films are viewed with the help of a stereoscope
- Uses mirrors or prism to co-ordinate the accommodation and convergence of the viewer eyes which fuses the two images conveniently to reach at conclusion



INDICATIONS

- 1. Evaluating the bony pockets in patient with periodontal disease
- 2. Morphology of TMJ
- 3. Root configuration of teeth requiring RCT
- 4. Assessment of bone shape dental implant placement
- 5. Relationship of mandibular canal to the roots of unerupted mandibular molar teeth