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REVISED SYLLABUS – ORAL RADIOLOGY

Introduction

– Scope of the subject and history of origin

Physics of radiation

1. Nature and types of radiations
2. Source of radiations
3. Productions of X-rays
4. Properties of X-rays
5. Compton effect
6. Photoelectric effect
7. Radiation measuring units

Biological effects of radiation

– Radiation safety and protection measures

Principles of image production—Radiographic techniques

Intraoral

1. Periapical radiographs (Bisecting and parallel techniques)
2. Bitewing radiographs
3. Occlusal radiographs

Extraoral

1. Lateral projections of skull and jaw bones and paranasal sinuses
2. Cephalograms
3. Orthopantomography
4. Projections of temporomandibular joint and condyle of mandible
5. Projections for zygomatic arches

Specialized techniques

1. Sialography
2. Xeroradiography
3. Tomography

Factors in production of good radiographs

1. KVP and MA of X-ray machine
2. Filters
3. Collimations
4. Intensifying screens
5. Grids
6. X-ray films
7. Exposure time
8. Techniques

Dark room

1. Developer and fixer solutions
2. Film processing

Landmarks

– Radiographic normal anatomical landmarks

Faulty radiographs

1. Artifacts in radiographs
2. Interpretation of radiographs in various abnormalities of teeth, bones and other orofacial tissues

Miscellaneous topics

1. Principles of radiotherapy of orofacial malignancies and complications of radiotherapy
2. Contrast radiography and basic knowledge of radioactive isotopes
3. Radiography in Forensic Odontology—Radiographic age estimation and postmortem radiographic methods

Ethics