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REVISED SYLLABUS – ORAL AND MAXILLOFACIAL SURGERY (Oral Surgery, Local Anesthesia and General Anesthesia)

Introduction

- Definition, introduction, objectives and scope
- History taking, examination of the patients, investigations and diagnosis

Asepsis, sterilization, cross infection and disinfection

- Definitions
- Terminologies
- General considerations
- Effective measures in infection control
- Problems encountered in asepsis and infection control

Exodontia

- General considerations
- Indications and contraindications
- Methods of extractions
- Principles of forceps extraction
- Indications, principles and surgical procedure of transalveolar extraction
- Principles and use of elevators
- Complications of exodontia and management

Impacted teeth

- General factors, incidence, etiology
- Classification, indications for removal of lower impacted teeth
- Assessment: Clinical and radiological
- Anesthetic considerations

- Surgical procedure
- Maxillary third molar and canine impactions, incidence, indications for removal
- Classification, assessment and localization, surgical procedure
- Complication of surgical removal of impacted teeth sent to endodontics

Endodontic surgery

- Introduction
- Classification
- Apicoectomy
- Replantation

Preprosthetic surgery

- Introduction, aims of preprosthetic surgery, classification
- Corrective procedures—hard and soft tissues
- Sulcus extension procedures
- Ridge reconstruction or augmentation procedures

Principles of implantology

Infection of oral cavity

- Introduction
- Microbiology of odontogenic infections
- Anatomical considerations and facial spaces
- Spread of infections
- Acute dentoalveolar abscess
- Acute and chronic infections of the jaws: Cellulitis, Ludwig's angina, actinomycosis, osteomyelitis, osteoradionecrosis
- Management of infections: Medical antibiotics, analgesics, anti-inflammatory drugs, surgical methods
- Hepatitis-B, and HIV infections

Maxillary sinus diseases

- Applied anatomy, acute and chronic sinusitis, surgical approach to sinus
- Removal of tooth or root from the antrum
- Oro-antral fistula and its management

Cystic lesions of the jaws

- General features, definition, classification
- Pathogenesis, signs and symptoms
- Clinical, radiological and other investigations
- Surgical management and complications of each type of cyst

Disorders of temporomandibular joint

- Applied anatomy
- Subluxation and dislocation of the TM joint
- Pain dysfunction syndrome
- Ankylosis of the joints and management
- Infections of the TM joint

Diseases of salivary glands

- General features, investigations in the diagnosis of salivary gland diseases
- Acute and chronic infection
- Salivary calculus and its management
- Tumors of the salivary gland and its management

Neurogenic disorders

- Nerve injuries
- Facial nerve palsy
- Trigeminal neuralgia
- Glossopharyngeal and facial paralysis

Fractures of the jaws

- Dentoalveolar fractures
- Mandibular fractures
 - Classification
 - Clinical features and diagnosis
 - Preliminary and definitive management
- Zygomatic complex fractures
- Middle third fractures
 - Classification
 - Clinical features and diagnosis
 - Outline of immediate and definitive treatment
- Orbital fractures
- Nasal fractures

Developmental deformities

- Deformities of the jaw:
 - Basic forms of deformities, prognathism, retrognathism and apertognathia
 - Reasons for surgical correction, preoperative planning
 - Outline of various surgical procedures in mandible and maxilla
- Cleft Lip and Palate
 - Etiology, incidence, timing of repair
 - Role of general dental practitioner

MEDICAL PROBLEMS IN DENTISTRY

Emergencies in dental practice

- Cardiovascular
- Respiratory
- Endocrine disorders
- Drug allergies and interactions
- Tracheostomy

Oral surgical procedures in

- Systemic diseases
- Patients with mentally compromised conditions
- Immunocompromised conditions
- Geriatric patients
- Pregnant women

LOCAL ANESTHESIA

Introduction

- Neurology of facial pain
- Historical aspects, definitions, types of LA indications and contraindication, advantage and disadvantage
- Local anesthetic drugs, classification
- Ideal requirements of LA solutions, composition and mode of action
- Factors to be considered in the choice of particular mode of anesthesia
- Complications of LA, its prevention and management

Anesthesia of mandible

- Anatomical consideration, infiltration, mental nerve block and inferior dental nerve block

Anesthesia of maxilla

- Anatomical considerations, infiltration, infraorbital block, posterior superior alveolar and maxillary nerve block
- Extraoral blocks—Indications and technique

GENERAL ANESTHESIA

- History of GA
- Indications of GA in oral surgery
- Preanesthetic evaluation of the patient
- Premedication
- Types of GA including IV sedation

- Stages of GA common general anesthetic agents
- Complications during and after anesthesia
- Post anesthetic care of the patients
- Growth and maturation
- Role of dental plaque in health and disease plaque microorganisms in detail