

# Paediatric and Preventive Dentistry

## SYLLABUS

### BDS

#### 1. INTRODUCTION TO PEDODONTICS & PREVENTIVE DENTISTRY.

- Definition, Scope, Objectives and Importance.

#### 2. GROWTH & DEVELOPMENT:

- Importance of study of growth and development in Pedodontics.
- Prenatal and Postnatal factors in growth & development.
- Theories of growth & development.
- Development of maxilla and mandible and related age changes.

#### 3. DEVELOPMENT OF OCCLUSION FROM BIRTH THROUGH ADOLESCENCE.

- Study of variations and abnormalities.

#### 4. DENTAL ANATOMY AND HISTOLOGY:

- Development of teeth and associated structures.
- Eruption and shedding of teeth.
- Teething disorders and their management.
- Chronology of eruption of teeth.
- Differences between deciduous and permanent teeth.
- Development of dentition from birth to adolescence.
- Importance of first permanent molar.

#### 5. DENTAL RADIOLOGY RELATED TO PEDODONTICS.

#### 6. ORAL SURGICAL PROCEDURES IN CHILDREN.

- Indications and contraindications of extractions of primary and permanent teeth in children.
- Knowledge of Local and General Anesthesia.
- Minor surgical procedures in children.

#### 7. DENTAL CARIES:

- Historical background.
- Definition, aetiology & pathogenesis.
- Caries pattern in primary, young permanent and permanent teeth in children.
- Rampant caries, early childhood caries and extensive caries:
  - ▣ Definition, aetiology, Pathogenesis, Clinical features, Complications & Management
- Role of diet and nutrition in Dental Caries.
- Dietary modifications & Diet counseling.
- Caries activity, tests, caries prediction, caries susceptibility & their clinical application.

#### 8. GINGIVAL & PERIODONTAL DISEASES IN CHILDREN.

- Normal gingiva & periodontium in children.
- Definition, aetiology & Pathogenesis.
- Prevention & Management of gingival & Periodontal diseases.

#### 9. CHILD PSYCHOLOGY:

- Definition.
- Theories of child psychology.
- Psychological development of children with age.
- Principles of psychological growth & development while managing child patient.
- Dental fear and its management.
- Factors affecting child's reaction to dental treatment

#### 10. BEHAVIOUR MANAGEMENT:

- Definitions.
- Types of behaviour encountered in the dental clinic.
- Non-pharmacological & pharmacological methods of Behaviour Management.

#### 11. PEDIATRIC OPERATIVE DENTISTRY:

- Principles of Pediatric Operative Dentistry.
- Modifications required for cavity preparation in primary and young permanent teeth.

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- Various Isolation Techniques.
- Restorations of decayed primary, young permanent and permanent teeth in children using various restorative materials like Glass Ionomer, Composites & Silver Amalgam. Stainless steel, Polycarbonate & Resin Crowns.
- 12. PEDIATRIC ENDODONTICS
  - Principles & Diagnosis.
  - Classification of Pulpal Pathology in primary, young permanent & permanent teeth.
  - Management of Pulpally involved primary, young permanent & permanent teeth.
  - ☒ Pulp capping – direct & indirect.
  - ☒ Pulpotomy
  - ☒ Pulpectomy
  - ☒ Apexogenesis
  - ☒ Apexification
  - Obturation Techniques & material used for primary, young permanent & Permanent teeth in children.
- 13. TRAUMATIC INJURIES IN CHILDREN:
  - Classifications & Importance.
  - Sequelae & reaction of teeth to trauma.
  - Management of Traumatized teeth.
- 14. PREVENTIVE & INTERCEPTIVE ORTHODONTICS:
  - Definitions.
  - Problems encountered during primary and mixed dentition phases & their management.
  - Serial extractions.
  - Space management.
- 15. ORAL HABITS IN CHILDREN:
  - Definition, Aetiology & Classification.
  - Clinical features of digit sucking, tongue thrusting, mouth breathing & various other secondary habits.
  - Management of oral habits in children.
- 16. DENTAL CARE OF CHILDREN WITH SPECIAL NEEDS:
  - Definition, Aetiology, Classification, Behavioural and Clinical features & Management of children with:
    - ☒ Physically handicapping conditions.
    - ☒ Mentally compromising conditions.
    - ☒ Medically compromising conditions.
    - ☒ Genetic disorders.
- 17. CONGENITAL ABNORMALITIES IN CHILDREN:
  - Definition, Classification, Clinical features & Management.
- 18. DENTAL EMERGENCIES IN CHILDREN & THEIR MANAGEMENT.
- 19. DENTAL MATERIALS USED IN PEDIATRIC DENTISTRY.
- 20. PREVENTIVE DENTISTRY:
  - Definition.
  - Principles & Scope.
  - Types of prevention.
  - Different preventive measures used in Pediatric Dentistry including pit and fissure sealants and caries vaccine.
- 21. DENTAL HEALTH EDUCATION & SCHOOL DENTAL HEALTH PROGRAMMES.
- 22. FLUORIDES:
  - Historical background.
  - Systemic & Topical fluorides.
  - Mechanism of action.
  - Toxicity & Management.
  - Defluoridation techniques.
- 23. CASE HISTORY RECORDING:

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- Outline of principles of examination, diagnosis & treatment planning.
- 24. SETTING UP OF PEDODONTIC CLINIC.
- 25. ETHICS.