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REVISED SYLLABUS – PEDODONTICS

Introduction to pedodontics and preventive dentistry

1. Definition
2. Scope
3. Objective and importance

Growth and Development

1. Importance of study of growth and development in pedodontics
2. Prenatal and postnatal factors in growth and development
3. Theories of growth and development
4. Development of maxilla and mandible and related age changes

Development of occlusion from birth through adolescence

– Study of variations and abnormalities

Dental anatomy and histology

1. Development of teeth and associated structures
2. Eruption and shedding of teeth
3. Teething disorders and their management
4. Chronology of eruption of teeth
5. Differences between deciduous and permanent teeth
6. Development of dentition from birth to adolescence
7. Importance of first permanent molar

Oral surgical procedures in children

1. Indications and contraindications of extractions of primary and permanent teeth in children
2. Knowledge of local and general anesthesia
3. Minor surgical procedures in children

Dental caries

1. Historical background
2. Definition, etiology and pathogenesis
3. Caries pattern in primary, young permanent and permanent teeth in children
4. Rampant caries, early childhood caries and extensive caries

5. Definition, etiology, pathogenesis, clinical features, complications and management
6. Role of diet and nutrition in dental caries
7. Dietary modifications and Diet counceling
8. Caries activity, tests, caries prediction, caries susceptibility and their clinical application

Gingival and periodontal diseases in children

1. Normal gingival and periodontium in children
2. Definition, etiology and pathogenesis
3. Prevention and management of gingival and periodontal diseases

Child psychology

1. Definition
2. Theories of child psychology
3. Psychological development of children with age
4. Principles of psychological growth and development while managing child patient
5. Dental fear and its management
6. Factors affecting child's reaction to dental treatment

Behavior management

1. Definitions
2. Types of behavior encountered in the denial clinic
3. Non-pharmacological and pharmacological methods of behavior management

Pediatric operative dentistry

1. Principles of pediatric operative dentistry
2. Modifications required for cavity preparation in primary and young permanent teeth
3. Various isolation techniques
4. Restorations of decayed primary, young permanent and permanent teeth in children using various restorative materials like glass ionomer, composites and silver amalgam. Stainless steel, polycarbonate and resin crowns

Pediatric endodontics

1. Principles and diagnosis
2. Classifications of pulpally pathology in primary, young permanent permanent teeth
3. Management of pulpally involved primary, young permanent and permanent teeth
4. Pulp capping-direct and indirect
5. Pulpotomy
6. Pulpectomy
7. Apexogenesis
8. Apexification
9. Obturation techniques and material used for primary, young permanent teeth in children

Traumatic injuries in children

1. Classifications and importance, Sequelae and reaction of teeth to trauma
2. Management of Traumatized teeth

Preventive and interceptive orthodontics

1. Definitions
2. Problems encountered during primary and mixed dentition phases and their management
3. Serial extractions
4. Space management

Oral habits in children

1. Defintions, etiology and classification
2. Clinical features of digit sucking, tongue thrusting, mouth breathing and various other secondary habits
3. Management of oral habits in children

Dental care of children with special needs

– Definition, etiology, classification, behavioral and clinical features and management of children with:

1. Physical handicapping conditions
2. Mentally compromising conditions
3. Medically compromising conditions
4. Genetic disorders

Congenital abnormalities in children

1. Definition
2. Classification
3. Clinical features
4. Management

Preventive dentistry

1. Definition
2. Principles and scope
3. Types of prevention
4. Different preventive measures used in pediatric dentistry including pit and fissure sealants and caries vaccine
5. Dental health education and school dental health programs

Fluorides

1. Historical background
2. Systemic and topical fluorides
3. Mechanism of action
4. Toxicity and management
5. Defluoridation techniques

Setting up of pedodontic clinic

Ethics