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REVISED SYLLABUS – PERIODONTOLOGY

Objectives

1. The student shall acquire the skill to perform dental scaling diagnostic tests of periodontal diseases to use the instruments for periodontal therapy and maintenance of the same.
2. The student shall develop attitude to impart the preventive measures namely, the prevention of periodontal diseases and prevention of the progress of the disease.
3. The student shall also develop an attitude to perform the treatment with full aseptic precautions shall develop an attitude to prevent iatrogenic diseases to conserve the tooth to the maximum possible tine by maintain periodontal health and to refer the patients who require specialist's care.

Introduction

1. Definition of periodontology and periodontics
2. Brief historical background
3. Scope of periodontics.

Development

1. Development of periodontal tissues
2. Microstructural anatomy and biology of periodontal tissues
3. In detail gingiva, junctional epithelium, epithelial mesenchymal interaction periodontal, ligament cementum, alveolar bone.

Defensive mechanisms in the oral cavity

- Role of epithelium, gingival fluid, saliva and other defensive mechanisms in the oral environment.

Age changes

1. Age changes in structures and their significance in geriatric dentistry
2. Age changes in teeth and periodontal structures and association with periodontal diseases

Classification of periodontal diseases

1. Need for classification, scientific basis of classification
2. Classification of gingival and periodontal diseases as described in World Workshop, 1989.

Gingivitis

1. Plaque associated, ANUG, steroid hormone influenced
2. Medication influenced desquamative gingivitis
3. Other forms of gingivitis as in nutritional deficiency, bacterial and viral infections, etc.

Periodontitis

1. Adult periodontitis
2. Rapidly progressive periodontitis A and B
3. Juvenile periodontitis (localized, generalized and post-juvenile)
4. Pre-pubertal periodontitis
5. Refractory periodontitis.

Gingival diseases

1. Localized and generalized gingivitis
2. Papillary, marginal and diffuse gingivitis.

Etiology, pathogenesis, clinical signs, symptoms and management of

1. Plaque associated gingivitis
2. Systemically aggravated gingivitis (sex hormones, drugs and systemic diseases)
3. ANUG
4. Desquamative gingivitis
5. Gingivitis associated with lichen planus, pemphigoid, pemphigus, and other vesiculobullous lesions
6. Allergic gingivitis
7. Infective gingivitis–Herpetic, bacterial and candida
8. Periocoronitis
9. Gingival enlargement (classification and differential diagnosis).

Epidemiology of periodontal diseases

1. Definition of index
2. Incidence, prevalence, epidemiology, endemic, epidemic, and pandemic
3. Classification of indices (irreversible and reversible)
4. Deficiencies of earlier indices used in periodontics
5. Detailed understanding of Silness and Loe Plaque Index

6. Loe and Silness Gingival Index
7. CPITN and CPI Index.

Prevalence of periodontal diseases in India and other countries

- Public health significance.

Extension of inflammation from gingival

1. Mechanism of spread of inflammation from gingival area to deeper periodontal structures
2. Factors that modify the spread of inflammation.

Pocket

1. Signs and symptoms
2. Pocket definition
3. Classification
4. Pathogenesis
5. Histopathology
6. Root surface changes
7. Contents of the pocket

Etiology of periodontal diseases

Dental Plaque (Biofilm)

1. Definition
2. New concept of biofilm
3. Types, composition
4. Bacterial colonization, growth, maturation and disclosing agents
5. Role of dental plaque in periodontal disease
6. Plaque microorganisms in detail and bacteria associated with periodontal diseases
7. Plaque retentive factors
8. Material alba
9. Food debris

Calculus

1. Definition
2. Types, composition, attachment, theories of formation
3. Role of calculus in disease

Food impaction

1. Definition
2. Types, etiology

3. Hirschfeld classification
4. Signs symptoms and sequelae of treatment

Trauma from occlusion

1. Definition, types
2. Histopathological changes
3. Role in periodontal disease
4. Measures of management in brief

Habits

1. Their periodontal significance
2. Bruxism and parafunctionally habits, tongue thrusting lip biting, occupational habits

Iatrogenic Factors

Conservative Dentistry

1. Restorations
2. Contact point
3. Marginal ridge
4. Surface roughness
5. Overhanging restorations
6. Interface between restoration and teeth

Prosthodontics

1. Interrelationship
2. Bridges and other prosthesis
3. Pontics (types) surface contour
4. Relationships of margins to the periodontium
5. Gingival protection theory
6. Muscle action theory
7. Theory of access to oral hygiene

Orthodontics

1. Interrelationship
2. Removable appliances
3. Fixed appliances
4. Retention of plaque and bacterial changes

Systemic diseases

1. Diabetes
2. Sex hormones
3. Nutrition (Vitamin C and proteins)
4. AIDS and periodontium
5. Hemorrhagic diseases
6. Leukemia
7. Clotting factor disorders
8. PMN disorders.

Risk factors

1. Definition
2. Risk factors for periodontal diseases

Host response

1. Mechanism of initiation and progression of periodontal diseases
2. Basic concepts about cells
3. Mast cells neutrophils, macrophages
4. Lymphocytes, immunoglobulins, complement system, immune mechanisms and cytokines in brief
5. Stages in gingivitis-initial, early, established and advanced
6. Periodontal disease activity, continuous paradigm, random burst and asynchronous multiple burst hypothesis.

Periodontitis

1. Etiology
2. Histopathology
3. Clinical signs and symptoms
4. Diagnosis and treatment of adult periodontitis

Prognosis and management

1. Rapidly progressive periodontitis
2. Juvenile periodontitis: Localized and generalized
3. Postjuvenile periodontitis
4. Periodontitis associated with systemic diseases
5. Refractory periodontitis
6. Halitosis

Periodontal abscess

1. Definition
2. Classification
3. Pathogenesis
4. Differential diagnosis and treatment.

Furcation involvement

- Glickman's classification

Diagnosis

1. Routine procedures
2. Methods of probing
3. Types of 2 probes
4. Mention advanced diagnostic aids and their role in brief.

Prognosis

1. Definition
2. Types
3. Purpose
4. Factors to be taken into consideration

Treatment plan

- Factors to be considered

Periodontal therapy

1. General principles of periodontal therapy
2. Phase I, II, III, IV therapy

Plaque control

Mechanical

1. Mechanical toothbrushes
2. Interdental cleaning aids

Chemical

1. Dentifrices
2. Classification and mechanism of action of each chemical
3. Pocket irrigation

Instruments

1. Hand instruments
2. Sonic, ultrasonic piezoelectric scalers

Pocket eradication

1. Scaling and root planing procedures
2. Indications aims and objectives
3. Healing following root planing

Curettage and present concepts

1. Definition
2. Indications
3. Aims and objectives
4. Procedures and healing response

Flap surgery

1. Definition
2. Types of flaps
3. Design of flaps

Papilla preservation

1. Indications
2. Contraindications
3. Armamentarium
4. Surgical procedure and healing response

Osseous Surgery

1. Osseous defects in periodontal disease
2. Definition
3. Classification
4. Surgery: Resective, additive osseous surgery (osseous grafts with classification of grafts)
5. Healing responses
6. Other regenerative procedures: Root conditioning
7. Guided tissue regeneration

Mucogingival surgery and periodontal plastic surgeries

1. Definition
2. Objectives
3. Indications

Mucogingival problems

1. Etiology
2. Classification of gingival recession (PD Miller Jr and Sullivan and Atkins)

Gingival extension procedures

1. Lateral pedicle graft
2. Frenectomy
3. Frenotomy
4. Crown lengthening procedures
5. Periodontal microsurgery in brief.

Hypersensitivity

1. Causes
2. Theories
3. Management

Splints

1. Periodontal splints
2. Purpose and classification
3. Principles of splinting

Periodontal management of medically compromised patients

- Topics concerning periodontal management of medically compromised patients

Systemic affects periodontal diseases in brief

1. Cardiovascular diseases
2. Low birth weight babies, etc.

Pharmacotherapy

1. Periodontal dressings
2. Antibiotics and anti-inflammatory drugs
3. Local drug delivery systems

Interdisciplinary care

1. Pulpoperiodontal involvement
2. Routes of spread of infection
3. Simon's classification
4. Management

Implants

1. Definition
2. Types
3. Scope
4. Biomaterials used

Periodontal considerations of implants

1. Implant-bone interface
2. Implant-gingival interface
3. Implant failure
4. Peri-implantitis and management

Maintenance phase

1. Aims
2. Objectives
3. Principles

SPT

1. Importance
2. Procedures
3. Maintenance of implants
4. Definition of periodontal regeneration, repair, new attachment and reattachment.

Infection control protocol

1. Sterilization
2. Various aseptic procedures

Ethics