

4A.2.2 SYLLABUS (Including Teaching Hours.)

MUST KNOW

73HRS

1. Introduction: 01 HRS
Definition of Periodontology, Periodontics, Periodontia
1. Development of periodontal tissues: 02 HRS
Micro –structural Anatomy & biology of periodontal tissues in detail, gingiva, junctional epithelium in detail, epithelial - mesenchymal interaction, periodontal ligament cementum alveolar bone.
3. Defensive mechanisms in the oral cavity: 02 HRS
Role of epithelium, gingival fluid, saliva and other defensive mechanisms in the oral environment.
4. Age change in periodontal structures 01 HR
5. Classification of periodontal diseases: 02 HR
need for classification, classification of gingival and periodontal diseases as described in world workshop 1989, AAP 1999.

Gingivitis:-

Plaque associated, ANUG, steroid hormone influenced, medication influenced, desquamative gingivitis, other forms of gingivitis as in nutritional deficiency, bacterial and viral infections etc.

Periodontitis :-

Chronic periodontitis, aggressive periodontitis, and refractory periodontitis.

6. Gingival Diseases: 03 HRS
 - Localized and generalized gingivitis.
 - Papillary, marginal and diffuse gingivitis.
 - Etiology, pathogenesis, clinical signs,
 - Symptoms and management of Plaque associated gingivitis.
 - Systemically aggravated gingivitis, hormones, drugs and systemic diseases
 - ANUG
 - Periocoronitis
 - Gingival enlargement (Classification & differential diagnosis)
7. Extension of Inflammation from Gingiva:- 01 HR
Mechanism of spread of inflammation from gingival area to deeper periodontal structures.
Factors that modify the spread
8. Pocket 03 HRS
Definition, signs and symptoms, classification, pathogenesis, histopathology, root surface changes and contents of the pocket
9. Etiology 05 HRS
Dental Plaque (Bio film)- Definition, new concept of bio film
 - Types composition, bacterial colonization, growth, maturation and disclosing agents.

- Role of dental plaque in periodontal diseases.
Plaque microorganisms in details and bacteria associated with periodontal diseases.

- Plaque retentive factors

Material alba:-

- Food debris

- Calculus

- Definition

- Types, composition, attachment, theories of formation

- Role of calculus in disease

Food impaction:-

- Definition

- Types, etiology

- Hirschfeld's classification

- Signs, symptoms & sequelae of treatment

Trauma From Occlusion

- Definition, types

- Histopathological changes

- Role in periodontal disease

- Measures of management in brief

Systemic Disease

02 HRS

- Diabetes, sex hormones, nutrition (vit. C.& proteins)

- Aids & periodontium

- Hemorrhagic diseases, Leukemia, clotting factor disorders, PMN disorders

10. Risk factors

01 HR

- Definition, risk factors for periodontal diseases.

11. Host Response

03 HRS

- Mechanism of initiation and progression of periodontal diseases

- Basic concepts about cells, mast cells neutrophils, macrophages, lymphocytes, immunoglobulins, complement system, immune mechanisms and cytokines in brief.

- Stages in gingivitis –initial, early, established and advanced

12. Periodontitis

07 HRS

- etiology, histopathology, clinical signs and symptoms, diagnosis and treatment of chronic periodontitis

- periodontal abscess, definition, classification, pathogenesis, differential diagnosis and treatment.

- Furcation involvement Glickman's, classification, prognosis and management.

- Aggressive periodontitis.

- Periodontitis associated with systemic diseases

- Refractory periodontitis

13. Diagnosis

03 HRS

- Routine procedures, method of probing, type of probes (according to case history)

- Halitosis etiology and treatment, mention advanced diagnostic aids and their role in brief.

14. Prognosis

01 HR

- Definition, types, purpose and factors to be taken into consideration

15. Treatment Plan 10HRS
 Factors to be considered
 Periodontal therapy
 A. General principles of periodontal therapy. Phase I,II,II, IV therapy
 - Definition of periodontal regeneration, repair, new attachment.
 B. Plaque control
 - Mechanical tooth brushes, interdental cleaning aids, dentifrices.
 - Chemical: Classification and mechanism of action of each & pocket irrigation.
17. Pocket eradication procedures 04 HRS
 - Scaling and root planning
 - Indication
 - Aims and objectives
 - Healing following root planning
 - Hand instruments, sonic, ultrasonic & piezo electric scalers.
 - Curettage and present concepts
 - Definition
 - Indications
 - Aims and objectives
 - Procedures and healing response
 - Flap surgery
 - Definition
 - Types of flaps designs of flap papilla preservation
 - Indication and contraindications
 - Armamentarium
 Surgical procedure and healing response
18. Osseous surgery 04 HRS
 - Osseous defects in periodontal diseases
 - Definition
 - Classification
 Surgery :
 - Resective, additive osseous surgery (osseous grafts with classification of grafts)
 - Healing responses
 - Other regenerative procedures : root conditioning
 Guided tissue regeneration
19. Mucogingival surgery & periodontal plastic surgeries 03 HRS
 - Definition
 - Mucogingival problem : etiology, classification of gingival recession (P.D. Miller Jr. & Sullivan and Atkins)
 - Indication and objectives
 - Gingival extension procedures : lateral pedicle graft frenectomy, frenotomy, frenoplasty
 - Crown lengthening procedures
 Periodontal microsurgery in brief
20. Splints 01 HR
 - Periodontal splints
 - Purpose and classification principles of splinting

21.	Hypersensitivity - Causes, theories & management	01 HR
22.	Implants - Definition, types scope and biomaterials uses.	02 HRS
23.	Maintenance phase - Aims, objective, & principles - Importance	01 HR
24.	Pharmaco – Therapy - periodontal dressings - Antibiotics and anti inflammatory drugs local drugs delivery system.	01 HR
25.	Periodontal management of medically compromised patients - Topics concerning periodontal management of medically compromised patients	02 HRS
26.	Inter - disciplinary care - Pulpo- periodontal involvement - Perio ortho	03 HRS
27.	Systemic Effects of periodontal diseases in brief - Cardiovascular diseases, low birth weight babies diabetes etc.	02 HRS
28.	Infection control protocol - Sterilization and various aseptic procedures.	02 HRS
	DESIRABLE TO KNOW	09HRS
	Desquamative Gingivitis:- - Gingivitis associated with lichen planus, pemphigoid, pemphigus, and other vesiculobullous lesions, - Allergic gingivitis - Infective gingivitis – herpetic, bacterial and candidial.	02 HRS
	Epidemiology of Periodontology Disease: - Definition of index, incidence, prevalence, epidemiology endemic epidemic and pandemic - Classification of indices (Irreversible and reversible) - Deficiencies of earlier indices used in Periodontics - Detailed understanding of silness & Loe Plaque index, loe & silness Gingival index, CPITN & CPI - Prevalence of periodontal disease in India and other countries. - Public health significance (All these topics)	02 HRS
	Habits - Their periodontal significance - Bruxism and parafunctional habits, tongue thrusting, lip biting, occupational habits.	01 HRS
	Prosthodontics	01 HR

- Interrelationship, Bridges and other prosthesis, pontics (types), surface contour, relationships of margins to the periodontium, gingival protection theory, muscle action theory and theory of access to oral hygiene.

Orthodontics

01 HR

- Interrelationship, removable appliances and fixed appliances

Retention of plaque, bacterial changes

- Periodontal disease activity, continuous paradigm, random burst and asynchronous multiple burst hypothesis.

Periodontal considerations ; such as implant bone interface, implant – gingival interface, implant failure, peri- implantitis and management.

Procedures

01 HR

Maintenance of implants

01 HR

4A.2.3 EXAMINATION PATTERN

Name Of Exercise	Time Allotted	Marks Allotted
Scaling & Polishing	45 Mins	40
Clinical Case examination, History Taking and Treatment Planning.	45 Mins	25
Post-Operative Instructions, Chairside Viva.	30 Mins	20
Journal	NA	05