



JINNAH SINDH MEDICAL UNIVERSITY

PERIODONTOLOGY CURRICULUM

Ref# CURRICULUM MEETING/JSMU/2016-17/ 08

Dated: 12-06-17

COURSE TOPIC: ANATOMY OF THE PERIODONTIUM

S.No.	Lecture Topic	Topic Objectives
1.	Introduction to Periodontology	<ul style="list-style-type: none"> - Knowledge of healthy periodontium - Macro and micro anatomy - Physiology of Periodontium
2.	Oral mucosa	<ul style="list-style-type: none"> - Types of Oral Mucosa
3.	Gingiva	<ul style="list-style-type: none"> - Clinical features of Healthy Gingiva - Development of Gingiva - Types of Gingiva and Anatomy - Blood supply, Nerve supply and Lymphatic System of Gingiva - Functions, features and types of Gingival epithelium & Connective Tissue - Biological Width
4.	Periodontal Ligament	<ul style="list-style-type: none"> - Clinical features of Periodontal Ligament - Development of Periodontal Ligament - Types of Periodontal fibers and Anatomy - Blood supply, Nerve supply and Lymphatic System of Periodontium - Functions of Periodontal ligament

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5.	Cementum	<ul style="list-style-type: none">- Clinical features of Cementum- Development of Cementum- Types and Classification of cementum- Vascularization, innervation and its functions.- Cementoenamel junction- Hypercementosis- Ankylosis
6.	Alveolar Bone	<ul style="list-style-type: none">- Anatomy of alveolar bone- Vascularization of the alveolar bone- Composition of Alveolar bone- Bone marrow, Periosteum and Endosteum- Fenestration and Dehiscence- Bone remodeling
7.	Saliva	<ul style="list-style-type: none">- Composition of Saliva- Micro-flora of Saliva- Functions of Saliva
8.	Gingival crevicular fluid (GCF)	<ul style="list-style-type: none">- Composition of GCF- Micro-flora of GCF- Functions of GCF

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COURSE TOPIC: CLASSIFICATION, ETIOLOGY AND EPIDEMIOLOGY OF PERIODONTAL DISEASES

S.No.	Lecture Topic	Topic Objectives
1.	Classification of Periodontal & Gingival Diseases	- Classification of Periodontal diseases and Conditions - Classification of Gingival diseases
2.	Epidemiology of Periodontal diseases; All Indices	a) Plaque index b) Debris index c) PMA index d) Gingival index e) Sulcus bleeding index f) Periodontal index g) Periodontal destructive index h) Community Periodontal index of treatment need (CPITN)

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3.	Etiology of Periodontal diseases; a. Acquired pellicle/ Dental pellicle b. Materia Alba c. Dental Plaque d. Dental Calculus e. Pre disposing factor	a) Definition b) Composition c) Maturation d) Structure e) Plaque microbiology Classification a) Supragingival b) Subgingival *Clinical significance of Dental Plaque in the formation of gingivitis a) Definition b) Origin and composition c) Mode of attachment d) Mineralization e) Clinical significance of calculus
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COURSE TOPIC: PATHOGENESIS

S.No.	Lecture Topic	Topic Objectives
1.	Microbiology and Pathology of Periodontal disease	<ul style="list-style-type: none">- Histopathogenesis of Plaque associated Periodontal diseases- Host response in Periodontal Disease- Hypersensitivity reaction; cell mediated and Humoral immunity- Clinical significance of Dental Plaque in the formation of gingivitis- Microbiology of Plaque associated Periodontal diseases
2.	Periodontal Pocket & Pseudo Pocket	<p>a) Definition b) Soft tissue wall of Periodontal pocket c) Hard tissue wall of Periodontal pocket d) Pocket content</p> <p>Classification of periodontal pocket a)Suprabony pocket b)Infrabony pocket</p> <p>Definition & Clinical Features of Pseudo pocket</p>

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COURSE TOPIC: GINGIVAL DISEASES

S.No.	Lecture Topic	Topic Objectives
1.	Gingivitis	<p><u>Gingivitis</u></p> <p>A) Acute Gingivitis -Clinical features - Signs and symptoms of acute gingivitis and different types ofGingivitis. a) Traumatic gingivitisb) Acute Necrotizing gingivitis c) Acute Herpetic - gingivostomatitsd)Circumcoronitis e) Streptococcal gingivitis (With their etiological factors and treatment)</p> <p>B) Chronic Gingivitis -Clinical features Emphasis will be given towards. a) Gingival Bleeding b) Gingival texture c) Gingival consistency d) Gingival swelling (Hyperplasia) e) Gingival Recession f) Gingival Pigmentation</p>
2.	Desquamative Gingivitis	<p>a) Definition b) Clinical features c) Mild, moderate and severe form of Desquamative Gingivitis. d) Factors involved: i. Nutritional factorsii. Hormonal factors iii. Dermatological condition</p>

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		iv. Chemotherapeutic agents v. Fungal infection
3	Gingivitis Associated with systemic diseases	a. Definition b. Clinical features
4	Gingivitis Associated with Condition like Pregnancy/Puberty	a. Definition b. Clinical features
5	Gingival Enlargement	- Inflammatory Enlargement -Drug-induced Gingival Enlargement -Enlargements associated with Systemic diseases -Neoplastic enlargement -Idiopathic gingival enlargement -False enlargement -Hormonal Changes
6	Mouth Breathing associated Gingivitis	a. Definition b. Clinical features

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COURSE TOPIC: PERIODONTAL DISEASES

S.No.	Lecture Topic	Topic Objectives
1.	<u>Periodontitis</u>	<p><u>A) Adult onset periodontitis (Chronic)</u></p> <p><u>(B) Rapidly Progressive Periodontitis (Aggressive)</u></p> <p> <u>a. Early onset Periodontitis</u></p> <p> i. Prepubertal Periodontitis</p> <p> ii. Juvenile Periodontitis</p> <p><u>C) Necrotizing Periodontitis</u></p> <p> i. AIDs Related</p> <p> ii. Non AIDs Related</p> <p><u>D) Refractory Periodontitis</u></p> <p><u>E) Trauma from Occlusion</u></p> <p> i. Acute & Chronic trauma</p> <p> ii. Primary & Secondary trauma</p> <p> iii. Consequences of trauma</p> <p> iv. Tissue Response to trauma</p> <p><u>F) Periodontal manifestation of Systemic diseases</u></p> <p>(Different systemic diseases are discussed with respect to periodontal manifestation)</p>

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2.	Furcation involvement in Periodontal disease	Classification and management of Furcation involvement in Periodontal disease
3.	Bone loss	<ul style="list-style-type: none"> - Bone destruction caused by Extension of Gingival inflammation - Bone destruction caused by Trauma from Occlusion - Bone destruction caused by Systemic disorders <p>* Pattern of bone loss in periodontal disease:</p> <ul style="list-style-type: none"> - Horizontal pattern of bone loss - Vertical pattern of bone loss - Angular pattern of bone loss - Radiological findings in Periodontitis
4.	Perio-Endo lesion	<ul style="list-style-type: none"> - Endodontic-Periodontal lesions - Periodontal-Endodontic lesions - Combined lesions
5.	Periodontal Abscess	<ul style="list-style-type: none"> - Acute Periodontal Abscess -Chronic Periodontal Abscess - Management and Treatment of Acute and Chronic Periodontal Abscess

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COURSE TOPIC: TREATMENT PLAN

S.No.	Lecture Topic	Topic Objectives
1.	Diagnosis of Cause Related Disease	<p>Clinical Periodontics: Diagnosis, Prognosis and Treatment Plan</p> <p>Diagnosis of Cause Related Disease.</p> <p>a) History takingb) Examination of the Oral Cavity</p> <p>c) Importance will be given to the Periodontitis</p> <p>d) Differential Diagnosis</p> <p>e) Plaque Recognition</p> <p>i. Visualization with naked eyes.</p> <p>ii. Visualization with disclosing agents.</p> <p>f) Treatment Planning</p> <ul style="list-style-type: none">- Mechanical control of Dental Plaque- Motivation, education and instruction.- Interdental cleaning- Scaling and root planning with advantages and disadvantages. <p>g) Chemical control of dental Plaque</p> <p>i. Chemotherapeutic agents for topical and systemic administration</p>
2.	Re-evaluation of Cause related therapy	<ul style="list-style-type: none">- Surgical control of Dental Plaque- Peri-implantitis- Follow-up and further management of Dental Plaque

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3.	Aims and objectives of periodontal therapy	<ul style="list-style-type: none"> i. Local Anaesthesia in Periodontal Surgery ii. Instruments for periodontal surgery procedures iii. Periodontal probing impact and radiographic interpretation iv. Sterilization, universal precautionary measures
4.	Surgical Procedures	<ul style="list-style-type: none"> i. Curettage ii. Gingivectomy with different modalities iii. Flap Surgery with different modalities iv. Muco gingival Problem <ul style="list-style-type: none"> - Soft tissue graft - Pedical graft or displaced flap - Free gingival graft - Crown lengthening procedure - Vestibular widening procedure - Frenectomy -Indications and contra indications of periodontal surgery. -Periodontal dressing -Periodontal Suturing
5.	Periodontal treatment of medically compromised patients	<ul style="list-style-type: none"> -Periodontium and HIV AIDs Oral and Periodontal manifestations of HIV infection Dental treatment complications Periodontal treatment protocol

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		-Cardiovascular diseases -Endocrine disorders -Hemorrhagic disorders -Medications and Cancer therapies
6.	Periodontal consideration with other fields of dentistry	1. Orthodontics 2. Endodontics 3. Removable Prosthodontics 4. Fixed Prosthodontics 5. Implants
7.	GTR (Guided Tissue Regeneration) & GBR (Guided Bone Regeneration)	1. Introduction 2. Knowledge 3. Techniques
8.	Occlusal Analysis	i. Diagnosis of Occlusal trauma ii. Occlusal Adjustment iii. Splinting