**Study Guide**

**College of Dentistry, Lahore Medical & Dental College**

**Oral Medicine & Diagnosis Curriculum (2023-2024)**

****

**Course Director:**

**Dr. Khurram Nadeem** **BDS, MCPS (OMFS), CMT (UHS)**

 Associate Professor/Head of the Department

**Contributors**:

Dr. Aneela Amjad Bsc, BDS, MCPS (OMFS), CHPE Associate Professor

Dr. Amber Salimi BDS Demonstrator

Dr. Nawal Talat BDS Demonstrator

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**Introduction**

Oral Medicine is the part of dentistry that is involved in the diagnosis and non-surgical treatment of primary or secondary disease involving the oral and para-oral structures including lymph node, salivary gland and TMJ disorders. Also it is concerned with the oral manifestations of systemic diseases and the oral and dental care of patients with special needs.

Oral Medicine provides an essential link between dentistry and medicine, practitioners in this field must possess a thorough knowledge of basic physiological and pathological mechanisms that contribute to health and disease.To become competent in the practice of oral medicine, must perform a proper assessment of patients including history taking and physical examination, and develop a management plan.

**Learning Outcomes:**

**At the end of academic session the learner will be able to:**

* Demonstrate an understanding of the aetiology, pathogenesis, epidemiology and clinical presentation of the common disorders of oral & para-oral structures including salivary glands, TMJ and pain disorders.
* Illustrate the diagnostic basis for diseases and conditions in the oral & para-oral structures. Achieve cognitive proficiency in differential diagnosis for common oral lesions or diseases.
* Identify the Signs and symptoms of systemic diseases including standard treatment emphasizing on

diseases causing oral manifestation, or diseases prone to oral infection, diseases enhancing existing oral diseases, and diseases affecting dental team.

* Diagnose and appropriately manage patients presenting to oral medicine clinic including orofacial pain of odontogenic and non-odontogenic origin
* Mention and demonstrate their Oral manifestations and the dental considerations in management of these patients.
* Develop the skills of analytical problem solving, investigation, and self-development in the field of oral medicine.
* Express the basic knowledge regarding mechanisms of action of antibiotics, antiviral and antifungal drugs, and their therapeutic uses particularly in dental practice.
* Define and describe risk factors, prevention and control of common oral & systemic diseases.
* To identify, manage and where required provide basic and immediate life support for adult and paediatric medical emergencies and ensure patient safety as a priority.

##### Department of Oral Medicine

##### Consultant: Demonstrators:

##### 3f6f20eb-f1e1-4f6d-bc76-d05847f112f5khuram-nadeem

Dr. Khurram Nadeem Dr. Amber Salimi

BDS, MCPS (OMFS) BDS

Associate Professor Demonstrator

Head of Oral Medicine Department





Dr. Aneela Amjad Dr. Nawal Talat

Bsc, BDS, MCPS (OMFS), CHPE BDS

Associate Professor Demonstrator

**Dental Assistant:**



Muhammad Naveed Muhammad Sami

Dental Assistant/Attendant Dental Assistant/Attendant

##### 3rd Year BDS Lecture Teaching Schedule

|  |  |
| --- | --- |
| **Day** | **Timings** |
| Monday | ----------- |
| Tuesday | Lecture 10:45am – 11:30am |
| Wednesday | Lecture 8:00am – 8:45am |
| Thursday | ----------- |
| Friday | ----------- |

##### Clinical Teaching Schedule

|  |  |
| --- | --- |
| **Day** | **Timings** |
| Monday | Clinical Practice 9:30am – 2:30pm |
| Tuesday | Clinical Practice 11:30am – 2:30pm |
| Wednesday | ----------- |
| Thursday | ----------- |
| Friday | Clinical Practice 9:30am – 1:00pm |

##### Duty Roster of Oral Medicine Department

**Dr. Khurram Nadeem (Associate Prof/HOD)**

|  |
| --- |
| **Monday** |
| **8:00 -9:00 am**Outdoor Supervision of demonstrators and house officers | **9:00 -10:00 am**Students demonstration**10:00 am- 1:15 pm**Students supervision in OM (Oral Medicine clinic) | **1:30-2:30 pm**Lecture/Test preparationTest AssessmentCase Discussion |
| **Tuesday** |
| **8:00-9:30 am**OutdoorLecture preparationStudent’s Mentorship  | **10:45-11:30 am**Lecture Oral Medicine  | **11:45am- 2:30pm**Students demonstrationStudents supervision in OM (Oral Medicine clinic) |
| **Wednesday** |
| **8:00-8:45 am**Lecture Oral Medicine | **8:30-9:30 am**Departmental Seminar | **9:30 am-2:30 pm**Case discussion inOral Medicine Clinic  |
| **Thursday** |
| **8:00 -11:00 am**Outdoor Supervision of demonstrators and house officers | **11:00-11:30 am** Outdoor Supervision of demonstrators and house officers | **11:30 am-2:30 pm**Lecture/Test preparationTest AssessmentCase Discussion |
| **Friday** |
| **8:00-9:30 am**Research/readingArticle writing | **9:30 am-12:00 pm**Students demonstrationStudents supervision  | **12:00-1:00pm**Clinical Evaluation of Students & Discussions |

**Dr. Aneela Amjad (Associate Professor)**

|  |
| --- |
| **Monday** |
| **8:00 -9:00 am**Outdoor Supervision of demonstrators and house officers | **9:00 -10:00 am**Students demonstration**10:00 am- 1:15 pm**Students supervision in OM (Oral Medicine clinic) | **1:30-2:30 pm**Lecture/Test preparationTest AssessmentCase Discussion |
| **Tuesday** |
| **8:00-8:30 am**Outdoor**8:30-10:30 am**Lecture preparationStudent’s Mentorship  | **10:45-11:30 am**Break | **11:45am- 2:30pm**Student supervision in OM ClinicCase discussion  |
| **Wednesday** |
| **8:00-8:45 am**Lecture Oral Medicine | **8:30-9:30 am**Departmental Seminar | **9:30 am-2:30 pm**Case discussion inOral Medicine Clinic  |
| **Thursday** |
| **8:00 -11:00 am**Outdoor Supervision of demonstrators and house officers | **11:00-11:30 am** Break | **11:30 am-2:30 pm**Outdoor Supervision of demonstrators and house officers |
| **Friday** |
| **8:00-8:30 am**Research/readingArticle writing | **8:30 am-12:00 pm**OutdoorStudent Supervision | **12:00-1:00pm**Clinical Evaluation of StudentsStudent Assignments & Discussions  |

**Dr. Amber Salimi (Demonstrator)**

|  |
| --- |
| **Monday** |
| **8:00 – 12:00**Examining and treating patients, observation and guidance to house surgeons | **12:00 – 12:30**Break  | **12:30 – 02:30** House surgeons seminar and case discussion |
| **Tuesday** |
| **8:00 – 10:30**Examining and treating patients, Supervision of House Surgeons | **10:30 – 12:00**Group discussion with house surgeons | **12:00 – 12:30**Break | **12:30 – 2:30**Examining and treating patients, Supervision of House Surgeons |
| **Wednesday** |
| **8:00 – 10:30**Examining and treating patients, Supervision of House Surgeons | **10:30 – 12:00**Case presentation and Group discussion with house surgeons | **12:00 – 12:30**Break | **12:30 – 2:30**Examining and treating patients, Supervision of House Surgeons |
| **Thursday** |
| **8:00 – 12:00**Clinical Practice dentistry and supervision of house surgeons | **12:00 – 12:30**Break  | **12:30 – 2:30**Patient examination and treatment of oral medicine patients  |
| **Friday** |
| **8:00 – 11:00**Clinical Practice dentistry, House surgeons observation and guidance | **11:00 – 11:30**Break  | **11:30 – 01:00**Clinical practice in oral medicine clinic and case discussion with house surgeons |

**Dr. Nawal Talat (Demonstrator)**

|  |
| --- |
| **Monday** |
| **8:00 – 9:15**Diagnosis of patients and treatment of oral medicine patients. | **9:15 – 11:30**Demonstration to 3rd year BDS students | **11:30 – 12:00**Break | **12:00 – 2:30**Group discussion and supervision of 3rd year students |
| **Tuesday**  |
| **8:00 – 10:45**Diagnosis of patients and treatment of oral medicine patients | **10:45 – 11:30**Attend Oral Medicine lecture | **11:30 – 12:00**Break | **12:00 – 2:30**Supervision and demonstration of 3rd year BDS  |
| **Wednesday** |
| **8:00 – 8:15**3rd Year BDS Oral Medicine Lecture | **8:15 – 11:30**Diagnosis of patients and treatment of oral medicine patients | **11:30 – 12:00**Break | **12:00 – 2:30**Diagnosis of patients and treatment of oral medicine patients |
| **Thursday** |
| **8:00 – 11:30**Diagnosis of patients, treatment of oral medicine patients and supervision of house surgeons | **11:30 – 12:00**Break | **12:00 – 2:30**Diagnosis of patients, treatment of oral medicine patients HO supervision |
| **Friday** |
| **8:00 – 9:00**Diagnosis and treatment of patients | **9:00 – 10:30**Demonstration of 3rd year BDS students | **10:30 – 11:00**Break | **11:00 – 1:00**Supervision of 3rd year students |

##### Table of specifications

* 1.5 hrs/week × 4 = 6 lectures per month = 60 lectures per year
* 11.5 hrs/week × 8 = 92 hrs per 2 months per batch =92 clinical hrs per batch

**Oral Medicine**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  **Topic** | **Lecture hours** | **Weightage of Topic**  | **SEQs** | **MCQs** |
| Introduction to Oral Medicine: | 03 | 6% | .48 | 1 |
| Oral Mucous Membrane: | 02 | 4% | .32 | 1 |
| Oral ulceration: | 05 | 10% | 1 | 2 |
| Infections: | 05 | 10% | .8 | 2 |
| Vesiculobullous/immune mediated disorders: | 05 | 10% | .8 | 2 |
| Oral pigmentation. | 02 | 4% | .32 | 1 |
| Oral Precancer and cancer: | 05 | 10% | 1 | 2 |
| Temporomandibular joint disorders: | 03 | 6% |  | 1 |
| Salivary gland diseases: | 05 | 10% | 1 | 2 |
| Orofacial pain: | 05 | 10% | 1 | 2 |
| Oral manifestations of systemic diseases:Granulomatous diseases: | 05 | 10% | 1 | 2 |
| Medical emergencies relevant to dentistry: | 05 | 10% | 1 | 2 |
| TOTAL | 50 | 100% | 8 |  20 |

##### Oral Diagnosis

|  |  |
| --- | --- |
| **Topic** | **Lecture Hours** |
| **Introduction to history taking:*** Biodata
* Presenting complaint
* History of presenting complaint
* Medical history
* Social history
* Drug history
 |  02 |
| **General physical examination:*** Blood pressure
* Pulse
* Respiratory rate
* Temperature
 |  01 |
| **Clinical examination:**Extraoral examination:* Facial symmetry
* Pallor
* Temporomandibular joint
* Lymph nodes

Intraoral examination:Soft Tissues:* Labial mucosa
* Buccal mucosa
* Palatal mucosa
* Gingiva
* Tongue
* Floor of mouth
* Salivary glands

Hard tissues:* Teeth(Morphology, Occlusion)
 |  02 |
| **Investigations:*** Complete blood count (CBC)
* Erythrocyte sedimentation rate (ESR)
* Serum folate,
* Blood glucose, HbA1c
* Urea
* HBsAg
* AntiHCV
* Bleeding time, Clotting time
* Liver function test (LFTS)
* Serum electrolytes
* Immunological tests
* Microbiological investigations
 |  2 |
| **Radiology/Imaging:*** Introduction
* Tecniques

**Intraoral radiographs*** Periapical
* Occlusal
* Bitewing

**Extaroral radiographs*** OPG
* Lateral Ceph
* Occipitomental view
* Submentovertex view
* PA mandible

Interpretation of radiographsComputed tomography(C.T scan)Cone beam computed tomography(CBCT)PET scanArthroscopySialography UltrasoundMagnetic resonance imaging(MRI)Radioisotope studies**Oral pigmentation:*** Localized
* Syndromic
* Malignant
 |   04 |

**CURRICULUM**

**OBJECTIVES:**

 At the end of the academic session the goals achieved would be;

* Understanding of the aetiology, pathogenesis, epidemiology and clinical presentation of the common disorders of oral & para-oral structures including salivary glands, TMJ and pain disorders.
* Illustration of the diagnostic basis for diseases and conditions in the oral & para-oral structures. Achieve cognitive proficiency in differential diagnosis for common oral lesions or diseases.
* Identification of the Signs and symptoms of systemic diseases including standard treatment emphasizing on diseases causing oral manifestation, or diseases prone to oral infection, diseases enhancing existing oral diseases, and diseases affecting dental team.
* Diagnose and appropriately manage patients presenting to oral medicine clinic including orofacial pain of odontogenic and non-odontogenic origin
* Mention and demonstrate their Oral manifestations and the dental considerations in management of these patients.
* Developing the skills of analytical problem solving, investigation, and self-development in the field of oral medicine.
* Express the basic knowledge regarding mechanisms of action of antibiotics, antiviral and antifungal drugs, and their therapeutic uses particularly in dental practice.
* Defining and describing the risk factors, prevention and control of common oral & systemic diseases.
* To identify, manage and where required provide basic and immediate life support for adult and paediatric medical emergencies and ensure patient safety as a priority.

**Course Outline**

**Introduction to Oral Medicine:**

Brief introduction about Oral Medicine including aim of studying Oral Medicine, terminologies used in Oral Medicine

Taking History

Clinical Examination

Investigations used in Dentistry

**Oral Mucous Membrane:**

 Brief introduction about epithelium

 Brief introduction about Connective Tissue

 Keratinization

 Keratinized and Non keratinized parts of the Oral Mucosa

 Cells of Oral mucous membrane

 Basement membrane zone

 Submucosal layer

 Role as barrier

 Permeability

 Hematinincs and oral mucous membrane

 Age changes in oral mucous membrane

 Regulation of production of normal oral mucous membrane

**Oral ulceration:**

Causes of Oral ulceration

Recurrent apthous stomatitis

RAS like oral ulceration

Behcet’s syndrome

Drugs causing oral ulceration

Trauma and oral ulceration

Oral malignancy and oral ulceration

Vesiculobullous diseases

Immunologically mediated oral ulceration

**Infections:**

Bacterial infections

Viral infections

Fungal infections

**Vesiculobullous/immune mediated disorders**:

 Lichen planus

Pemphigus vulgaris

Mucous membrane pemphigoid

Erythema multiforme

Systemic lupus erythmatosis

Sclerosis

Graft versus host disease

**Oral pigmentation:**

Localized

Syndromic

Malignant

Others

**Oral Precancer and cancer**:

Precancer Lesions

Precancer Conditions

Oral squamous cell carcinoma**\**

Non-hodgkins lymphoma

 Kaposi sarcoma

**Temporomandibular joint disorders**:

 Classification

 Myofacial pain dysfunction syndrome

 Internal derangements

 Management strategies

**Salivary gland diseases**:

Developmental

Reactive (Mucocele, retention cyst)

Infectious

Immune Mediated/Sjogren’s syndrome

Xerostomia/causes/management

Hypersalivation/causes/management & Salivary gland neoplasia

**Orofacial pain**:

Clinical features

Diagnosis and management

Dentoalveolar pain

Neuropathic pain

Trigeminal neuralgia

Glossopharyngeal neuralgia

Post herpetic neuralgia

Migraine

Cluster headache

Burning mouth syndrome

Frey’s syndrome

**Neurological disturbance:**

Facial paralysis

Sensory impairments

Multiple sclerosis

Extrapyrimidal syndrome

**Oral manifestations of systemic diseases**:

Oral manifestations of HIV diseases

Oral manifestations of GIT diseases

Oral manifestations of hematological diseases

Oral manifestations of cardiovascular diseases

Oral manifestations of respiratory diseases

**Oral manifestations of systemic diseases: (contd.)**

Oral manifestations of endocrine diseases:

* Cushings syndrome
* Addisons disease
* Corticosteroid adverse effects
* Corticosteroid supplementation
* Acromegaly
* Pheochromocytoma
* Hemartoma with endocrine abnormalities
* Cowdens syndrome
* Gardners syndrome

**Granulomatous diseases:**

Oro-facial granulomatosis

Crohn’s disease

Sarcoidosis

Wegener’s granulomatosis

**Medical emergencies relevant to dentistry**:

Loss of consciousness

Vasovagal syncope

Acute hypoglycemia

Adrenal crisis

Anaphylactic reaction

Cardiac arrest

Strokes

**Medical emergencies relevant to dentistry: (contd.)**

Acute chest pain

Angina

Myocardial infarction

Difficulty in breathing

Asthma

Anaphlyactic reaction

Convulsions

Epilepsy

Other emergencies

Hemorrhage

Drug reactions and interactions

Local anesthesia with adrenaline

G.A

Corticosteroids

##### Oral diagnosis

**Course Outline**

**Introduction to history taking:**

Biodata

Presenting complaint

History of presenting complaint

Medical history

Social history

Drug history

**General physical examination:**

Blood pressure

Pulse

Respiratory rate

Temperature

**Clinical examination:**

Extraoral examination:

* Facial symmetry
* Pallor
* Temporomandibular joint
* Lymph nodes

Intraoral examination:

Soft Tissues:

* Labial mucosa
* Buccal mucosa
* Palatal mucosa
* Gingiva
* Tongue
* Floor of mouth
* Salivary glands

Hard tissues:

* Teeth(Morphology, Occlusion)

**Investigations:**

Complete blood count (CBC)

Erythrocyte sedimentation rate (ESR)

Serum folate,

Blood glucose, HbA1c

Urea

HBsAg

AntiHCV

Bleeding time, Clotting time

Liver function test (LFTS)

Serum electrolytes

Immunological tests

Microbiological investigations

**Radiology/Imaging:**

Introduction

Tecniques

**Intraoral radiographs**

Periapical

Occlusal

Bitewing

**Extaroral radiographs**

OPG

Lateral Ceph

Occipitomental view

Submentovertex view

PA mandible

**Interpretation of radiographs**

Computed tomography(C.T scan)

Cone beam computed tomography(CBCT)

PET scan

Arthroscopy

Sialography

Ultrasound

Magnetic resonance imaging (MRI)

Radioisotope studies

##### Evaluation

Daily Clinical Assessment of the student according to case presentation, history taking, clinical findings and reflected on their quota books.

1. **Class and Clinical Test**
* Tests consisting of MCQ’s and SEQ’s are conducted every month and sometimes twice a month to assess the students on the topics covered in that month.
* Sendup examination consisting of MCQ’s, SEQ’s and OSPE at the end of the session.
* At the end of each batch rotation, Clinical Evaluation Test is conducted. This test includes examination of patient (history & introduction, general physical examination, extra oral examination, intra oral examination), Table Viva with X-rays & OSCE.
1. **Attendance**

The attendance of the students is maintained separately for clinical and theory lectures and is mandatory for the students to have 75% attendance to appear in the test.

1. **Term Clinical & Theory Evaluation Test**

At the end of each term a clinical and theory evaluation is conducted. This clinical test includes examination of patient (history & introduction, general physical examination, extra oral examination, intra oral examination), Table Viva with X-rays & OSCE.

1. **Clinical skill observation & performance as reflected on their clinical quota books**
2. **Mini-CEX (Mini-Clinical Examinations)**
* Mini Clinical examinations are done and formative assessment is done at the end of clinical examination for the better learning of students, and also to identify the shortcomings in clinical examination.
1. **Assignments:**
* Small group discussion on different topics allotted to 3rd year BDS students. Individual Presentations on allotted topics.
* Posters related to different topics of Oral Medicine. 3-D Models of gross specimens.
1. **Common Core Presentation:**

A monthly common core seminar is conducted for the faculty and house officers.

1. **Weekly Seminar:**

Seminar of house surgeons is conducted on every Wednesday. House officers present on different topics and latest treatment modalities in the field of dentistry and a discussion is carried out after the presentation.

***CURRICULUM SCHEDULE FOR THIRD YEAR BDS IN THE SUBJECT OF***

***ORAL MEDICINE & DIAGNOSTICS***

***2023-2024***

***LAHORE MEDICAL & DENTAL COLLEGE, LAHORE***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR****no** | **TOPIC** | **BRIEF DESCRIPTION** | **DATE** | **LECTURE DELIVIERED BY** |
| **1** | **INTRODUCTION** | Introduction * Significance of Oral Medicine
* Oral Diagnosis
 | **04-04-23** | **Dr. Khurram Nadeem** |
| **2** | **TERMINOLOGIES**  | * Terminologies used in Oral Medicine
 | **05-04-23** | **Dr. Khurram Nadeem** |
| **3** | **EXAMINATION** | * Medical History
* Physical Examination
* Extraoral Examination
* Intraoral examination
 | **11-04-23****12-04-23** | **Dr. Khurram Nadeem****Dr. Khurram Nadeem** |
| **4** | **TREATMENT PLANNING & RADIOLOGY** | * Patient management
* Investigations (Radio/Lab)
* Radiology
* Intraoral radiographs
* Extraoral radiographs
* Techniques of taking different radiographs
* Radiology Lab Visit
 | **18-04-23****19-04-23****25-04-23** | **Dr. Khurram Nadeem****Dr. Aneela Amjad****Dr. Aneela Amjad** |
| **5** | **THERAPY** | * Therapy / treatment in general
* Drugs (adverse effects)
* Drug Reactions
 | **26-04-23****02-05-23** | **Dr. Khurram Nadeem****Dr. Khurram Nadeem** |
| **TEST 1 (Section 1-5) 03-05-23** |
| **6** | **MEDICAL EMERGENCIES IN DENTAL PRACTICE & IMMUNOCOMPROMISED PATIENTS** | * Emergency drugs and equipment
* Emergency Kit
* Vasovagal shock
* Anaphylaxis
* Hyperventilation
* Asthma
* Respiratory arrest
* Angina/MI
* Hypo/Hyperglycemic shock
* Epilepsy
 | **09-05-23****10-05-23****16-05-23** | **Dr. Aneela Amjad****Dr. Aneela Amjad****Dr. Aneela Amjad** |
| **TEST 2 (Section 6) 17-05-23** |
| **7** | **ORAL MUCOSA** | * Normal/abnormal oral mucosa

Cross infection controlNeedle stick injury | **23-05-23****24-05-23** | **Dr. Khurram Nadeem****Dr. Nawal Talat** |
| **8** | **INFECTIONS** | * Bacterial Infections
* Viral Infections
* Fungal Infections
 | **30-05-23****31-05-23****06-06-23****07-06-23****13-06-23****14-06-23****20-06-23** | **Dr. Aneela Amjad****Dr. Aneela Amjad****Dr. Khurram Nadeem****Dr. Khurram Nadeem****Dr. Khurram Nadeem****Dr. Aneela Amjad****Dr. Aneela Amjad** |
| **TEST 3 (Section7-8) 21-06-23** |
| **9** | **ORAL CANCER & PRECANCER** | Premalignant Lesions & Conditions* White Lesions
* Red lesions
* Melanomas

Epithelial dysplasia * Leukoplakia

Diagnosis & Treatment Of Leukoplakia* Erythroplakia
* Leukodema
* Keratosis
* Oral submucous fibrosis

**Oral Cancer**Clinical Features & Diagnosis* Management & Prognosis
* TNM Classification
 | **27-06-23****28-06-23****04-07-23****05-07-23** | **Dr. Aneela Amjad****Dr. Aneela Amjad****Dr. Aneela Amjad****Dr. Aneela Amjad** |
| **10** | **IMMUNITY & IMMUNE MEDIATED DISORDERS** | * Immunodeficiency
* Hypersensitivity
* Angioedema
* C1 Esterase Inhibitor Deficiency
* Autoimmunity
 | **11-07-23****12-07-23** | **Dr. Aneela Amjad** **Dr. Aneela Amjad**  |
| **MIDTERM (Section 1-10) 18-07-23** |
| **11** | **ULCERS** | Introduction * Diagnosis and treatment of oral ulcers
* Recurrent apthous stomatitis
* Bechets syndrome
 | **25-07-23****26-07-23** | **Dr. Khurram Nadeem****Dr. Khurram Nadeem** |
| **12** | **VESICULOBULLOUS & MUCOCUTANEOUS DISEASES** | Introduction * Lichen Planus
* Pemphigus Vulgaris
* Mucous Membrane Pemphygoid
* Erythema Multiforme
* Systemic Lupus Erythematosus
* Sclerosis
* Graft Versus Host Disease
 | **01-08-23****02-08-23****08-08-23****09-08-23** | **Dr. Khurram Nadeem****Dr. Khurram Nadeem****Dr. Khurram Nadeem****Dr. Khurram Nadeem** |
| **13** | **ORAL PIGMENTATION** | * Addison’s Disease
* Peutz Jegher’s Syndrome
* Amalgam Tattoo
* Hereditary Telangiectasia
* Pigmented Nevi
* Melanoma
 | **15-08-23****16-08-23** | **Dr. Khurram Nadeem****Dr. Khurram Nadeem** |
| **TEST 4 (Section 11-13) 22-08-23** |
| **14** | **OROFACIAL PAIN & NEUROLOGICAL DISTURBANCES** | Clinical featuresDiagnosis & management**Dentoalveolar Pain****Neurological Disturbances:*** Facial paralysis
* Sensory impairments
* Multiple sclerosis
* Extrapyramidal syndrome

**Neuropathic pain:*** Trigeminal neuralgia
* Glossopharyngeal neuralgia
* Post herpetic neuralgia

**Pain:*** Migraine
* Cluster headache
* Burning mouth syndrome
* Frey’s Syndrome
 | **23-08-23****29-08-23****30-08-23****05-09-23****06-09-23**  | **Dr. Aneela Amjad** **Dr. Aneela Amjad****Dr. Aneela Amjad****Dr. Khurram Nadeem****Dr. Khurram Nadeem** |
| **15** | **DISEASES OF SALIVARY GLANDS** | Assessment of salivary gland functionSalivary gland diseases* Sialadenitis
* Sialosis

Disturbances of salivary gland* Xerostomia
* Sjogren’s syndrome
* Salivary gland tumors
 | **12-09-23****13-09-23****19-09-23****20-09-23** | **Dr. Khurram Nadeem****Dr. Khurram Nadeem****Dr. Khurram Nadeem****Dr. Aneela Amjad** |
| **TEST 5 (Section 14-15 ) 26-09-23** |
| **16** | **TEMPOROMANDIBULAR JOINT (TMJ) DISORDERS** | * Internal derangements

Classification* Myofacial Pain Dysfunction
* Management strategies
 | **27-09-23****03-10-23** | **Prof. Dr. Aqib Sohail****(Guest Speaker)****Dr. Khurram Nadeem** |
| **17** | **GASTROINTESTINAL DISORDER** | * Celiac disease
* Crohn’s disease
* Orofacialgranulomatosis
* Ulcerative colitis
* Gastroesophageal reflux disease
 | **04-10-23****10-10-23** | **Dr. Khurram Nadeem****Dr. Khurram Nadeem** |
| **TEST 6 (Section 16-17) 11-10-23** |
| **18** | **ORAL MANIFESTATIONS OF SYSTEMIC DISEASES** | Diseases of the Lips Diseases of the TongueDisorders of CVSDisorders of RespirationBlood Disorders* Anemia
* Leukemia
* Liver disorders
* Platelet abnormalities

Nutritional deficiencies * Scurvy

Endocrine disturbances * Diabetes mellitus
* Adrenocortical
* Thyroid

Disorders of the Teeth & Bone | **17-10-23****18-10-23****24-10-23****25-10-23****31-10-23****01-11-23** | **Dr. Khurram Nadeem****Dr. Aneela Amjad****Dr. Khurram Nadeem****Dr. Momin Ayub (Guest Speaker)****Dr. Khurram Nadeem****Dr. Khurram Nadeem****Dr. Khurram Nadeem** |
| **TEST 7 (Section 18) 07-11-23** |
| **SEND-UP EXAM 05-12-23** |

Collaborative Learning:

Principal/Dean Prof. Aqib Sohail: Guest Speaker

Oral Pathology Department: Dr. Sadia Iqbal /Dr. Momin Ayub

Guest Speakers: Dr. Maria Noor, Dr. Fareed Ahmad, Dr. Sadia Manzar

**Clinical Demonstration Schedule**

|  |  |
| --- | --- |
| **Demonstration Topic** | **Facilitator**  |
| Introduction, Biodata and History Taking. | Dr. Khurram Nadeem/Dr. Amber/Dr. Nawal |
| General physical examination/vitals | Dr. Amber/ Dr. Nawal |
| Extra Oral Examination  | Dr. Aneela Amjad |
| Intra Oral Examination | Dr. Khurram Nadeem |
| Radiographs | Dr. Khurram Nadeem |
| TMJ Examination | Dr. Aneela Amjad |
| Salivary Glands Examination | Dr. Aneela Amjad |
| Occlusion  | Dr. Khurram Nadeem |
| Cranial Nerves Examination | Dr. Khurram Nadeem/ Dr. Amber/Dr. Nawal |
| Referral and Prescription Writing  | Dr. Khurram Nadeem |
| **Final Clinical Evaluation** |

**References & Supporting Material**

***Strongly recommended* :**

* **Text book of Oral Medicine**

Author: Tyldesley

* **Oral and Maxillofacial Medicine**

The basis of Diagnosis and treatment

 Author: CRISPIAN SCULLY

***Also recommended:***

* **Essentials of Oral Pathology and Oral Medicine** ;

Author: R. A. Cawson, E. W. Odell

**E-learing**

**Learning Resources:**

1. Required Text (s)

Tyldesley’s Oral Medicine

1. Essential References
* Burket’s Oral Medicine

Diagnosis and treatment

* Cawsons Essentials of

Oral Pathology and Oral Medicine

* Differential Diagnosis of Oral Lesions

 By Wood and Goaz

1. Reference Material (Journals, Reports, etc )
2. Electronic Materials, Web Sites etc

 www.PubMed.com

1. Other learning material such as computer-based programs/CD, professional standards / regulations
2. Oral Medicine cases library/ college website