

Study Guide

College of Dentistry, Lahore Medical & Dental College
Oral Medicine & Diagnosis Curriculum (2026)



Course Director:

Prof. Dr. Khurram Nadeem

BDS, MCPS (OMFS), CMT (UHS)
Professor/Head of the Department

Contributors:

Prof. Dr. Aneela Amjad

Bsc, BDS, MCPS (OMFS), CHPE

Professor

Dr. Nawal Talat

BDS, CHPE

Demonstrator/Registrar

Dr. Maneeha Asif

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:



Prof. Dr. Khurram Nadeem
BDS, MCPS (OMFS), CMT
Professor
Head of Oral Medicine & Diagnosis



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

Demonstrators:



Dr. Nawal Talat
BDS, CHPE
Demonstrator / Registrar



Dr. Maneeha Asif
BDS
Demonstrator

3rd Year BDS Lecture Teaching Schedule

Day	Timings
Monday	-----
Tuesday	Lecture 10:45am – 11:30am
Wednesday	Lecture 8:00am – 8:50am
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

Table of specifications

- $1.5 \text{ hrs/week} \times 4 = 6 \text{ lectures per month} = 60 \text{ lectures per year}$
- $11.5 \text{ hrs/week} \times 8 = 92 \text{ hrs per 2 months per batch} = 92 \text{ clinical hrs per batch}$

Oral Medicine

BDS THIRD PROFESSIONAL ORAL MEDICINE MODEL QUESTION PAPER

Sr. No.	Course Content	SEQs	MCQs
1.	Investigations		1
2.	Immunity		1
3.	Oral Cancer and Precancer	1	2
4.	Oral Pigmentation		1
5.	Oral Ulceration	1	
6.	Vesiculo-bullous Diseases	1	2
7.	Salivary Gland Diseases	1	2
8.	Infections	1	3
9.	Temporomandibular Joint Diseases		1
10.	Orofacial Pain	1	3
11.	Oral Manifestations of Systemic Disease	1	2
12.	Medical Emergencies	1	3
	Total	08	21

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: <u>Extraoral examination:</u> • Facial symmetry • Pallor • Temporomandibular joint • Lymph nodes <u>Intraoral examination:</u> Soft Tissues: • Labial mucosa • Buccal mucosa	02

• Palatal mucosa • Gingiva • Tongue • Floor of mouth • Salivary glands <u>Hard tissues:</u> • 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	2
Radiology/Imaging: • Introduction • Tecniques Intraoral radiographs • Periapical • Occlusal • Bitewing Extaroral radiographs	04

• 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 Oral pigmentation: • Localized • Syndromic • Malignant	
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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 aphthous 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

Myofascial 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

Extrapyramidal 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

Anaphylactic 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

Techniques

Intraoral radiographs

Periapical

Occlusal

Bitewing

Extraroral radiographs

OPG

Lateral Ceph

Occipitomenal view

Submentovertebral 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.

2. 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.

3. 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.

4. Clinical skill observation & performance as reflected on their clinical quota books

5. 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.

6. 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.

7. Common Core Presentation:

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

8. 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
2026
LAHORE MEDICAL & DENTAL COLLEGE, LAHORE**

SR No	TOPIC	BRIEF DESCRIPTION	LECTURE DELIVIERED BY
1	INTRODUCTION	<u>Introduction</u> ➤ Significance of Oral Medicine ➤ Oral Diagnosis	Dr. Khurram Nadeem
2	TERMINOLOGIES	➤ Terminologies used in Oral Medicine	Dr. Khurram Nadeem
3	EXAMINATION	➤ Medical History ➤ Physical Examination ➤ Extraoral Examination ➤ Intraoral examination	Dr. Khurram Nadeem Dr. Khurram Nadeem
4	TREATMENT PLANNING & RADIOLOGY	➤ Patient management ➤ Investigations ➤ Radiology ➤ Intraoral radiographs ➤ Extraoral radiographs ➤ Techniques of taking different radiographs ➤ Radiology Lab Visit	Dr. Khurram Nadeem Dr. Aneela Amjad Dr. Aneela Amjad
5	THERAPY	➤ Therapy / treatment in general ➤ Drugs (adverse effects) ➤ Drug Reactions	Dr. Khurram Nadeem Dr. Khurram Nadeem
6	ORAL MUCOSA	➤ Normal/abnormal oral mucosa	Dr. Khurram Nadeem
CLASS TEST 1 (Section 1 to 6)			
7	INTRODUCTION TO RESEARCH	Lecture on Introduction to Research and Methodology for 3 rd Year BDS Students	Guest Speaker / Dr. Aneela Amjad

8	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	Dr. Aneela Amjad Dr. Aneela Amjad Dr. Aneela Amjad Dr. Aneela Amjad
CLASS TEST 2 (Section 8)			
9	INFECTIONS	➤ Bacterial Infections ➤ Fungal Infections ➤ Viral Infections ➤ HIV and AIDS	Dr. Aneela Amjad Dr. Aneela Amjad Dr. Aneela Amjad Dr. Aneela Amjad Dr. Khurram Nadeem Dr. Khurram Nadeem Dr. Khurram Nadeem
CLASS TEST 3 (Section 9)			
9	ORAL CANCER & PRECANCER	<u>Premalignant Lesions & Conditions</u> ➤ White Lesions ➤ Red lesions ➤ Melanomas <u>Epithelial dysplasia</u> ➤ Leukoplakia <u>Diagnosis & Treatment Of Leukoplakia</u> ➤ Erythroplakia ➤ Leukodema ➤ Keratosis ➤ Oral submucous fibrosis Oral Cancer <u>Clinical Features & Diagnosis</u> ➤ Management & Prognosis ➤ TNM Classification	Dr. Aneela Amjad Dr. Aneela Amjad Dr. Aneela Amjad Dr. Aneela Amjad

CLASS TEST 4 (Section 9)			
10	ULCERS	<u>Introduction</u> ➤ Diagnosis and treatment of oral ulcers ➤ Recurrent aphthous stomatitis ➤ Bechets syndrome	Dr. Khurram Nadeem Dr. Khurram Nadeem
QUIZ ON ORAL ULCERS			
MID-TERM EXAM (Section 1-10) (Tentative After 25 th August 2025)			
11	IMMUNITY & IMMUNE MEDIATED DISORDERS	➤ Immunodeficiency ➤ Hypersensitivity ➤ Angioedema ➤ C1 Esterase Inhibitor Deficiency ➤ Autoimmunity	Dr. Aneela Amjad Dr. Aneela Amjad
12	VESICULOBULLOUS & MUCOCUTANEOUS DISEASES	<u>Introduction</u> ➤ Lichen Planus ➤ Pemphigus Vulgaris ➤ Mucous Membrane Pemphigoid ➤ Erythema Multiforme ➤ Systemic Lupus Erythematosus ➤ Sclerosis ➤ Graft Versus Host Disease	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	Dr. Khurram Nadeem Dr. Khurram Nadeem
CLASS TEST 5 (Section 11-13)			
14	OROFACIAL PAIN & NEUROLOGICAL DISTURBANCES	<u>Clinical features</u> <u>Diagnosis & management</u> Dentoalveolar Pain Neuropathic pain: ➤ Trigeminal neuralgia ➤ Glossopharyngeal neuralgia ➤ Post herpetic neuralgia	Dr. Aneela Amjad Dr. Aneela Amjad Dr. Aneela Amjad

		<u>Disorders of CVS</u> <u>Disorders of Respiration</u> <u>Blood Disorders</u> ➤ Anemia ➤ Leukemia ➤ Liver disorders ➤ Platelet abnormalities <u>Nutritional deficiencies</u> ➤ Scurvy <u>Endocrine disturbances</u> ➤ Diabetes mellitus ➤ Adrenocortical ➤ Thyroid <u>Disorders of the Teeth & Bone</u> Cross infection control Needle stick injury	Dr. Khurram Nadeem Dr. Khurram Nadeem Dr. Khurram Nadeem Dr. Khurram Nadeem Dr. Aneela Amjad Dr. Nawal Talat / Dr. Maneeha Asif
CLASS TEST 8 (Section 18)			
SEND-UP EXAM (Tentatively After 2nd Week of February)			

Collaborative Learning:

Principal/Dean Prof. Aqib Sohail: (TMJ Lecture Tentatively Scheduled)

Oral Pathology Department: Prof. Dr. Sadia Iqbal /Dr. Rummana Aqeel

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

Clinical Demonstration Schedule

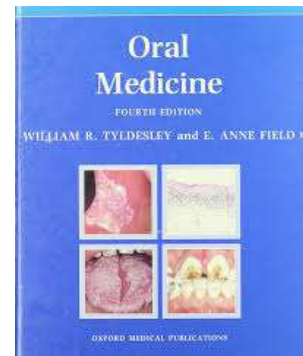
Demonstration Topic	Facilitator
Introduction, Biodata and History Taking.	Dr. Khurram Nadeem/Dr. Nawal Talat / Dr. Maneeha Asif
General physical examination/vitals	Dr. Nawal Talat / Dr. Maneeha Asif
Extra Oral Examination	Dr. Aneela Amjad
Intra Oral Examination	Dr. Khurram Nadeem
Radiographs	Dr. Khurram Nadeem
TMJ Examination	Dr. Aneela Amjad
Salivary Glands Examination	Dr. Aneela Amjad
Lymph nodes Examiantion	Dr. Khurram Nadeem
Occlusion	Dr. Khurram Nadeem
Cranial Nerves Examination	Dr. Aneela Amjad / Dr. Nawal Talat / Dr. Maneeha Asif
Referral and Prescription Writing	Dr. Khurram Nadeem
Final Clinical Evaluation	

References & Supporting Material

Strongly recommended :

- **Text book of Oral Medicine**

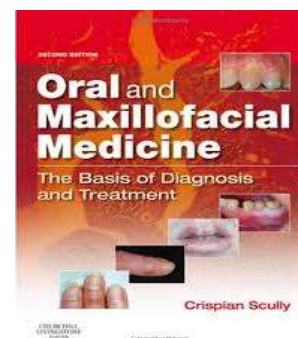
Author: Tyldesley



- **Oral and Maxillofacial Medicine**

The basis of Diagnosis and treatment

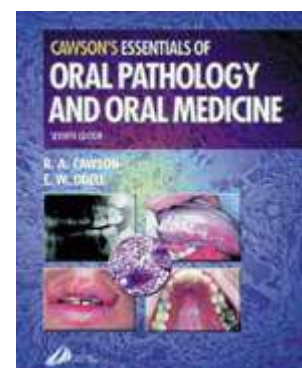
Author: CRISPIAN SCULLY



Also recommended:

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

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



E-learning

Learning Resources:

1- Required Text (s)

Tyldesley's Oral Medicine

2- 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

3- Reference Material (Journals, Reports, etc)

4- Electronic Materials, Web Sites etc

www.PubMed.com

5- Other learning material such as computer-based programs/CD, professional standards / regulations

6- Oral Medicine cases library/ college website