



LAHORE MEDICAL & DENTAL COLLEGE

Department of Periodontology Study Guide

2026

Course director:

Dr. Ibrar Humayun

BDS, MSc

Head of Department

Contributors:

Dr. Maha Maqbool

BDS, FCPS, FICOI

Assistant professor

Dr. Ahmad Danyal

BDS, FCPS, FICOI

Assistant professor

Co-contributors:

Dr. Nuaira Butt

BDS, BSc

Clinical registrar

Dr. Munazza Daad

BDS

Demonstrator

Dr. Shahzaib Wazir

BDS

Demonstrator

INTRODUCTON:

Periodontology is the branch of dentistry that deals with the diagnosis and treatment of the disease and conditions of supporting and surrounding tissues of the teeth.

Periodontology is a third year subject.

Students are to complete a 6 week rotation in the clinic in which they learn how to evaluate, diagnose and treat patients with diseased supporting structure of the teeth with Manual Scaling.

Students are also exposed to the ultrasonic scaling being carried out in the department once they have a grasp of the basic manual scaling

CURRICULUM

OBJECTIVES

Upon the completion of this course learners should be able to:

- 1- Recognize normal oral anatomy and variations of normal.
- 2- Relate periodontology to other dental sciences.
- 3- Distinguish features of common periodontal diseases that help in its clinical diagnosis.
- 4- Achieve cognitive proficiency in differential diagnosis for common periodontal lesions and/or diseases.
- 5- Explain the pathogenesis and etiological factors of various periodontal diseases.
- 6- Connect histopathological features of periodontal lesions to their clinical presentation and management.
- 7- Demonstrate the skills of analytical problem solving, investigation, clinical skills required for treatments and self-development in the field of periodontology.

Lectures: 2 lectures /week (50 min each)

Practical: 3 days/ week .each group has a rotation for 8 weeks

CURRICULUM OVERVIEW

SR. NO	CHAPTER	NO. OF LECTURES	NO. OF SEQ'S	NO. OF MCQ'S
1	Normal periodontium	02	01	01
2	Classification and epidemiology of periodontal disease	02	01	01
3	Etiology of periodontal disease	07	02	05
4	Relationship between periodontal disease and systemic health	04	01	03
5	Gingival pathology	08	02	05

6	Periodontal pathology	10	02	06
7	Diagnosis, prognosis, and treatment plan	06	01	04
8	Management of patients with special needs	04	01	03
9	Diagnosis and treatment of periodontal emergencies	05	01	03
10	Non-surgical treatment	10	02	03
11	Surgical treatment	10	02	03
12	Surgical procedures	04	01	03

3rd year BDS presentation schedule

Group presentation for the third years has been scheduled as follows. The class has been divided into fifteen groups & each member of the group is expected to participate/present in this activity. All members will be involved in the question answer session at the end of the presentation. All students will be graded according to their performance & marks will be added to their internal assessment. Each group is directed to discuss & finalize the contents of their presentation with the supervisors prior to the scheduled presentations

GROUP 1:

TOPIC: Anatomy of the Periodontium

GROUP 2:

TOPIC: Classification of the Diseases Affecting Periodontium and Aging of the Periodontium

GROUP 3:

TOPIC: Periodontal Pathogenesis and Microbiology

GROUP 4:

TOPIC: Smoking and Periodontal Diseases

GROUP 5:

TOPIC: Influence of Systemic Conditions over Periodontal Health

GROUP 6:

TOPIC: Impact of Periodontal infection on Systemic Health

GROUP 7:

TOPIC: Gingivitis and Acute Gingival Infections

GROUP 8:

TOPIC: Gingival Enlargement and its Management

GROUP 9:

TOPIC: Chronic Periodontitis and Aggressive Periodontitis along with Management

Group 10:

TOPIC: Furcation defects and trauma from occlusion

Group 11:

TOPICS: Clinical Diagnosis, Prognosis and Treatment Plan

Group 12:

TOPICS: Periodontal Treatment of Medically Compromised Patients

Group 13:

TOPICS: Non-Surgical Periodontal Therapy

Group 14:

TOPICS: Surgical Periodontal Therapy

Group 15:

TOPICS: Oral Implantology: An Introduction

CLINICAL DUTIES & REQUIREMENTS:

- ☐ Each student will spend a total of 8 weeks in the Department of Periodontology during his / her 3rd year BDS
- ☐ Each student will be required to:
 1. Perform 40 Manual Scaling
 2. Assist 3 Ultrasonic scaling
 3. Observe major surgical cases in Implant Center
 4. Perform exercises on:
 - a. Probing
 - b. BPE scoring
 - c. Periodontal Charting

Record of this clinical work will be maintained in the **Clinical Record Book / Clinical assignment Forms**. This log Book will be signed by the HOD for those students who will be declared pass in **qualifying test**.

POLICY FOR MISSED ASSIGNMENTS

- a) Students have to prove valid reason for missed test and assignments.
- b) Students should inform the HOD prior to the date of scheduled examination.
- c) Course director has discretionary power to accept reason only if found reasonable.

POLICY FOR MARKING ATTENDANCE

- a) Present will be mark for those who will come sharp on time
- b) Arrival after 15 minutes will be considered absent
- c) Arrival within 15 minutes will be consider late
- d) 3 late arrivals will be equal to one absent

EVALUATION

- **Internal Assessment**

- ☐ Will be based upon written test, clinical tests, open book test, presentations, and hands on exercises & assignments and no of patients.
- ☐ **Written Tests** will be conducted either at the end or in the mid of each course. Tests will consist of multiple choice questions (MCQs). Summative and formative assessment will be done. Students should discuss their papers with the course director after the display of the result. Also opportunity will be provided in the class room for full strength.
- ☐ **Clinical Test** will be held for each student during the 5th week of duty in the Periodontology Department during both 3rd year BDS duties. This clinical test will be repeated at the last week of the duty. Every clinical test will be followed by formative / feedback assessment session. Every student will perform one tooth extraction and will appear in chair side viva. Grading will be based on viva / oral examination, chair-side manners, cross infection control (aseptic technique), operator and patient positioning and clinical technique / proficiency, during:
 1. History, diagnosis and treatment planning
 2. Probing and charting
 3. Manual Scaling

Results with feedback will be posted immediately after the clinical test.

CLINICAL ASSESSMENT FORM

(*) Mandatory Assessment

Each Section = 5 marks

Maximum Sections= 10

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	24-May-26	Sunday											
	25-May-26	Monday	Periodontal disease Pathogenesis	Dr Maha Maqbool	LT5	Assistant Professor	√						
	26-May-26	Tuesday											
	27-May-26	Wednesday											
	28-May-26	Thursday	EID-UL-AZHA				√						
	29-May-26	Friday											
	30-May-26	Saturday											
	31-May-26	Sunday											
	1-Jun-26	Monday	Periodontal disease Pathogenesis	Dr Maha Maqbool	LT5	Assistant Professor	√						
	2-Jun-26	Tuesday											
	3-Jun-26	Wednesday											
	4-Jun-26	Thursday	Periodontal Microbiology	Dr Ahmad Danyal	LT5	Assistant Professor	√						
	5-Jun-26	Friday											
	6-Jun-26	Saturday											
	7-Jun-26	Sunday											
	8-Jun-26	Monday	Periodontal Microbiology	Dr Ahmad Danyal	LT7	Assistant Professor	√						
	9-Jun-26	Tuesday											
	10-Jun-26	Wednesday											
	11-Jun-26	Thursday	Smoking	Dr Maha Maqbool	LT7	Assistant Professor	√				√	√	
	12-Jun-26	Friday											
	13-Jun-26	Saturday											
	14-Jun-26	Sunday											
	15-Jun-26	Monday	ROLE of Calculus & Phase 1 therapy	Dr Ahmad Danyal	LT7	Senior Registrar	√						

	16-Jun-26	Tuesday											
	17-Jun-26	Wednesday											
	18-Jun-26	Thursday	Class test 2	ALL FACULTY	LT7	All faculty	√						
	19-Jun-26	Friday											
	20-Jun-26	Saturday	EID-UL-AZHA										
	21-Jun-26	Sunday											
	22-Jun-26	Monday	Influence of Systemic Conditions	Dr. Maha Maqbool	LT7	Assistant Professor	√						
	23-Jun-26	Tuesday											
	24-Jun-26	Wednesday											
	25-Jun-26	Thursday	Impact of periodontal infection on systemic health	Dr Abrar Humayun	LT7	Assistant Professor	√						
	26-Jun-26	Friday											
	27-Jun-26	Saturday											
	28-Jun-26	Sunday											
	29-Jun-26	Monday	Impact of periodontal infection on systemic health	Dr Abrar Humayun	LT7	Assistant Professor	√						
	30-Jun-26	Tuesday											
	1-Jul-26	Wednesday											
	2-Jul-26	Thursday	Defense mechanism of gingiva + Gingival Inflammation	Dr. Maha Maqbool	LT7	Assistant Professor	√						
	3-Jul-26	Friday											
	4-Jul-26	Saturday											
	5-Jul-26	Sunday											
	6-Jul-26	Monday	Clinical features of gingivitis	Dr Abrar Humayun	LT7	Assistant Professor	√						

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	29-Jul-26	Wednesday											
	30-Jul-26	Thursday											
	31-Jul-26	Friday											
	1-Aug-26	Saturday	SUMMER BREAK										
	2-Aug-26	Sunday											
	3-Aug-26	Monday											
	4-Aug-26	Tuesday											
	5-Aug-26	Wednesday											
	6-Aug-26	Thursday									√	√	
	7-Aug-26	Friday											
	8-Aug-26	Saturday											
	9-Aug-26	Sunday											
	10-Aug-26	Monday	Desquamative Gingivitis	Dr Ahmad Danyal	LT7	Assistant Professor							
	11-Aug-26	Tuesday											
	12-Aug-26	Wednesday											
	13-Aug-26	Thursday	Desquamative Gingivitis	Dr Maha Maqbool	LT7	Assistant Professor							
	14-Aug-26	Friday											
	15-Aug-26	Saturday											
	16-Aug-26	Sunday											
	17-Aug-26	Monday	Periodontal Pocket	Dr Ahmad Danyal	LT5	Assistant Professor	√						
	18-Aug-26	Tuesday											
	19-Aug-26	Wednesday											
	20-Aug-26	Thursday	Pattern of Bone loss	Dr Maha Maqbool	LT5	Assistant Professor							

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	4-Oct-26	Sunday											
	5-Oct-26	Monday	Scaling root planning	Dr Ahmad Danyal	LT5	Assistant Professor	√						
	6-Oct-26	Tuesday											
	7-Oct-26	Wednesday											
	8-Oct-26	Thursday	Plaque biofilm control	Dr Maha Maqbool	LT5	Assistant Professor	√						
	9-Oct-26	Friday											
	10-Oct-26	Saturday											
	11-Oct-26	Sunday											
	12-Oct-26	Monday	SONic and ultrasonic scaling	Dr Ahmad Danyal	LT5	Assistant Professor	√						
	13-Oct-26	Tuesday											
	14-Oct-26	Wednesday											
	15-Oct-26	Thursday	Class TEST 5	Dr Ahmad Danyal	LT5	Assistant Professor	√						
	16-Oct-26	Friday											
	17-Oct-26	Saturday											
	18-Oct-26	Sunday											
	19-Oct-26	Monday	Periondontal abscess	Dr Ahmad Danyal	LT5	Assistant Professor	√						
	20-Oct-26	Tuesday											
	21-Oct-26	Wednesday											
	22-Oct-26	Thursday	Breath malodor	Dr Maha Maqbool	LT5	Assistant Professor	√				√	√	
	23-Oct-26	Friday											
	24-Oct-26	Saturday											
	25-Oct-26	Sunday											
	26-Oct-26	Monday	Locally delivered antibiotics	Dr Abrar Humayun	LT5	Assistant Professor	√						

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	27-Jan-27	Wednesday											
	28-Jan-27	Thursday		Dr Maha Maqbool	LT5	Assistant Professor							
	29-Jan-27	Friday	Student Presentations										
	30-Jan-27	Saturday											
	31-Jan-27	Sunday											
	1-Feb-27	Monday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor							
	2-Feb-27	Tuesday											
	3-Feb-27	Wednesday											
	4-Feb-27	Thursday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor							
	5-Feb-27	Friday											
	6-Feb-27	Saturday											
	7-Feb-27	Sunday											
	8-Feb-27	Monday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor							
	9-Feb-27	Tuesday											
	10-Feb-27	Wednesday											
	11-Feb-27	Thursday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor							
	12-Feb-27	Friday											
	13-Feb-27	Saturday											
	14-Feb-27	Sunday											
	15-Feb-27	Monday											
	16-Feb-27	Tuesday											

Send-up
Examination

All Faculty

Study Hours

Class lectures

Total lectures / week= 2

Total weeks/year= 35

Time for lec= 50 minutes

From November onwards

Total lec /week= 3

Total lec $35 \times 2 = 70 + 8 = 78$

Total time $78 \times 50 = 3900$ minutes or 65 hours

Clinical rotation

3days/week

Monday 9:55-3pm= 305minutes

Tuesday 11:35-3pm= 205minutes

Friday 9:41-1pm= 200minutes

Total minutes /week= 710minutes

Total weeks= 38

Total minutes/hrs $710 \times 38 = 26980$ minutes or 450 hours

Patient Reg. No. _____

Date: ____/____/____

Lahore Medical & Dental College

Department of Periodontics

Periodontal Examination Chart

Operator Name: _____
Patient Name: _____ Age: _____ Gender: M / F
Address: _____
Occupation: _____ Contact: _____

Presenting/Chief Complaint:

History of Presenting Complaint:

Past Medical History:

Family Medical History:

Present Medications:

Past Dental History:

Oral Hygiene Methods :

Brushing: ☐ Roll ☐ Scrub ☐ Bass ☐ Other: _____ Freq.: _____
Interdental: ☐ Floss ☐ Threader ☐ IDB ☐ wood stick Freq.: _____
Mouth rinse: ☐ Yes ☐ No Type: _____ Freq.: _____

Social Habits:

Smoking: ☐ No ☐ Yes _____/day Pack Years: _____
Alcohol: ☐ No ☐ Yes _____/day Pan/ Betel nut Chewing: ☐ No ☐ Yes ____/day

EXTRAORAL EXAMINATION:

Facial Symmetry: ☐ Symmetrical ☐ Asymmetrical

Smile Line: ☐ High ☐ Average ☐ Low

Lymph Nodes: ☐ Palpable ☐ Non-Palpable

TMJ Examination: ☐ Clicking ☐ Motion Deviation: R / L ☐ Tenderness to palpation

INTRAORAL EXAMINATION

Mucosa:

Frena:

Gingiva:

Colour:

Margin/contour:

Consistency:

Texture:

Others:

DIAGNOSIS: - _____

TREATMENT:

Initial Therapy:

Maintenance phase:

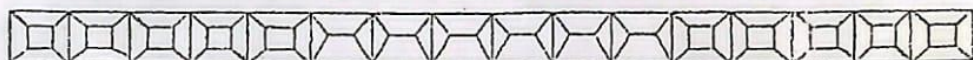
Supervisor _____ Date: _____

PERIODONTAL CHART

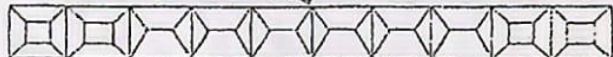
Mob
 KT
 CAL
 Rec
 PD

Buccal
 MANDIBULAR
 Palatal
 PD
 Rec
 CAL

18 17 16 15 14 13 12 11 + 21 22 23 24 25 26 27 28



55 54 53 52 51 61 62 63 64 65



PLAQUE

CARIES

RESTORATIONS



85 84 83 82 81 71 72 73 74 75



48 47 46 45 44 43 42 41 + 31 32 33 34 35 36 37 38

CAL
 Rec
 PD

Lingual
 MANDIBULAR
 Buccal
 PD
 Rec
 CAL
 KT
 Mob

GROUP PRESENTATION EVALUATION:

Group members will be graded from out of 5 marks each

Certificate will be awarded to the best presenter and best group presentation

BATCH:

1	Quality of control	
2	Clarity of content	
3	Relevance of material	
4	Logical flow/order	
5	Use of visual aids	
6	Summarization	
7	Presentation style	
8	Confidence	
9	Audience interaction	
10	Voice/pace	
11	Command over topic	
12	Response to questions	
13	Teamwork	

- **Theory Examination.**

3 hours duration

Short essay type (SEQ) & multiple choice questions (UHS pattern)

-
-

- **Viva/Oral Examination. /OSCE**

Definitive Schedule will be announced before examination date.

- **Clinical / Practical Examination**

Will be conducted on the same day as the viva, the pattern for the clinical exam will be the same as for the clinical test mentioned above

FINAL PROFESSIONAL UNIVERSITY EXAMINATION: (Total 200 marks)

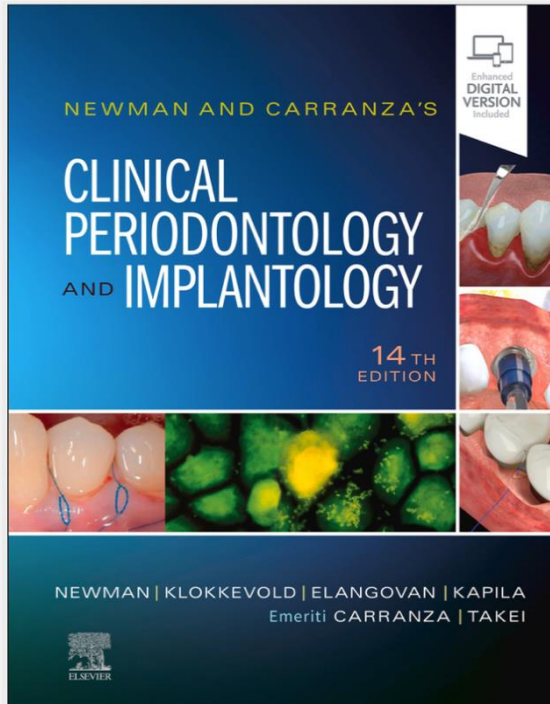
- Internal Assessment: 20 marks
- Theory. 45 marks. 15 short essay type questions
- Multiple choice question 45 marks
- Viva / Oral Examination & Clinical / Practical Examination (90 marks)

RECOMMENDED TEXTBOOKS:

References & Supporting Material

It is highly recommended that students read from sources other than lecture notes.

- **Strongly recommended :**



The most definitive and widely used periodontology text for both the classroom and clinical practice, Carranza's Clinical Periodontology, 14th Edition includes the most current periodontal information from basic science and fundamental procedures to the latest advanced techniques in

reconstructive, esthetic, and implant therapy. Written by leading experts Michael Newman, Henry Takei, Perry Klokkevold, and Fermin Carranza, along with a pool of international contributors, this text not only shows how to perform periodontal procedures, it describes how to best manage the outcomes and explains the evidence supporting each treatment. Over 3,100 illustrations including 2,550 in full-color depict the newest developments in basic science and surgical technology