



LAHORE MEDICAL & DENTAL COLLEGE

Department of Periodontology Study Guide

2025

Course director:

Dr. Ibrar Humayun	BDS, MSc	Head of Department
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Contributors:

Dr. Maha Maqbool	BDS, FCPS, FICOI	Assistant professor
Dr. Ahmad Danyal	BDS, FCPS	Senior registrar

Co-contributors:

Dr. Nuvaira Butt	BDS, BSc	Clinical registrar
Dr. Munazza Daad	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 (45 min each)

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

CURRICULUM OVERVIEW

S R. N O	CHAPTER	NO. OF LECTU RES	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) and short essay questions (SEQs). 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

Lahore Medical and Dental College

3rd year BDS

Academic Calender 2025-26

Class:3rd Year BDS					
DATE	DAY	Topics	Facilitator	Venue	Designation
21-Apr-25	Monday	Introduction to Periodontology (anatomy)	Dr Maha Maqbool	LT5	Assistant Professor
22-Apr-25	Tuesday				
23-Apr-25	Wednesday				
24-Apr-25	Thursday	Anatomy	Dr Maha Maqbool	LT5	Assistant Professor
25-Apr-25	Friday				
26-Apr-25	Saturday				
27-Apr-25	Sunday				
28-Apr-25	Monday	Anatomy	Dr Maha Maqbool	LT5	Assistant Professor
29-Apr-25	Tuesday				
30-Apr-25	Wednesday				
1-May-25	Thursday	HOLIDAY	HOLIDAY		Holiday
2-May-25	Friday				
3-May-25	Saturday				
4-May-25	Sunday				
5-May-25	Monday	Ageing	Dr. Ahmad Danyal	LT7	Senior Registrar
6-May-25	Tuesday				
7-May-25	Wednesday				
8-May-25	Thursday	Classification and epidemiology of periodontal disease	Dr. Ahmad Danyal	LT7	Senior Registrar
9-May-25	Friday				
10-May-25	Saturday				
11-May-25	Sunday				
12-May-25	Monday	Periodontal disease Pathogenesis	Dr Maha Maqbool	LT7	Assistant Professor
13-May-25	Tuesday				
14-May-25	Wednesday				
15-May-25	Thursday	Periodontal disease Pathogenesis	Dr Maha Maqbool	LT7	Assistant Professor
16-May-25	Friday				
17-May-25	Saturday				
18-May-25	Sunday				
19-May-25	Monday	Periodontal Microbiology	Dr. Ahmad Danyal	LT7	Senior Registrar
20-May-25	Tuesday				
21-May-25	Wednesday				
22-May-25	Thursday	Periodontal Microbiology	Dr Ahmad Danyal		Senior Registrar
23-May-25	Friday				
24-May-25	Saturday				
25-May-25	Sunday				
26-May-25	Monday	Smoking	Dr Abrar Humayun	LT7	Assistant Professor
27-May-25	Tuesday				
28-May-25	Wednesday	YOUM-E-TAKBIR			
29-May-25	Thursday	Class test 1	ALL FACULTY	LT7	
30-May-25	Friday				
31-May-25	Saturday				
1-Jun-25	Sunday				
2-Jun-25	Monday	ROLE of Calculus & Phase 1 therapy	Dr Ahmad Danyal	LT7	Senior Registrar
3-Jun-25	Tuesday				
4-Jun-25	Wednesday				

6-Jun-25	Friday				
7-Jun-25	Saturday	EID-UL-AZHA			
8-Jun-25	Sunday				
9-Jun-25	Monday	Influence of Systemic Conditions	Dr. Maha Maqbool	LT7	Assistant Professor
10-Jun-25	Tuesday				
11-Jun-25	Wednesday				
12-Jun-25	Thursday	Impact of periodontal infection on systemic health	Dr Abrar Humayun	LT7	Assistant Professor
13-Jun-25	Friday				
14-Jun-25	Saturday				
15-Jun-25	Sunday				
16-Jun-25	Monday	Impact of periodontal infection on systemic health	Dr Abrar Humayun	LT7	Assistant Professor
17-Jun-25	Tuesday				
18-Jun-25	Wednesday				
19-Jun-25	Thursday	Defense mechanism of gingiva + Gingival Inflammation	Dr. Maha Maqbool	LT7	Assistant Professor
20-Jun-25	Friday				
21-Jun-25	Saturday				
22-Jun-25	Sunday				
23-Jun-25	Monday	Clinical features of gingivitis	Dr Abrar Humayun	LT7	Assistant Professor
24-Jun-25	Tuesday				
25-Jun-25	Wednesday				
26-Jun-25	Thursday	Class test 2	ALL FACULTY	LT7	All faculty
27-Jun-25	Friday				
28-Jun-25	Saturday				
29-Jun-25	Sunday				
30-Jun-25	Monday	Gingival Enlargement with Management	Dr Maha Maqbool	LT7	Assistant Professor
1-Jul-25	Tuesday				
2-Jul-25	Wednesday				
3-Jul-25	Thursday	Gingival Enlargement with Management	Dr Maha Maqbool	LT7	Assistant Professor
4-Jul-25	Friday				
5-Jul-25	Saturday	ASHURA			
6-Jul-25	Sunday				
7-Jul-25	Monday	Acute Gingival Infections	Dr. Maha Maqbool	LT7	Assistant Professor
8-Jul-25	Tuesday				
9-Jul-25	Wednesday				
10-Jul-25	Thursday	Acute Gingival Infections with NUP	Dr. Maha Maqbool	LT7	Assistant Professor
11-Jul-25	Friday				
12-Jul-25	Saturday				
13-Jul-25	Sunday				
14-Jul-25	Monday				
15-Jul-25	Tuesday				
16-Jul-25	Wednesday				
17-Jul-25	Thursday				
18-Jul-25	Friday				
19-Jul-25	Saturday	SUMMER BREAK			
20-Jul-25	Sunday				
21-Jul-25	Monday				
22-Jul-25	Tuesday				
23-Jul-25	Wednesday				
24-Jul-25	Thursday				
25-Jul-25	Friday				
26-Jul-25	Saturday				
27-Jul-25	Sunday				

28-Jul-25	Monday	Desquamative Gingivitis	Dr Ahmad Danyal	LT7	Senior Registrar
29-Jul-25	Tuesday				
30-Jul-25	Wednesday				
31-Jul-25	Thursday	Class Test 3	ALL FACULTY	LT7	
1-Aug-25	Friday				
2-Aug-25	Saturday				
3-Aug-25	Sunday				
4-Aug-25	Monday	Periodontal Pocket	Dr Ahmad Danyal	LT5	Senior Registrar
5-Aug-25	Tuesday				
6-Aug-25	Wednesday				
7-Aug-25	Thursday	Pattem of Bone loss	Dr Maha Maqbool	LT5	Assistant Professor
8-Aug-25	Friday				
9-Aug-25	Saturday				
10-Aug-25	Sunday				
11-Aug-25	Monday	Periodontal Response to Extemal Forces	Dr Abrar Humayun	LT5	Assistant Professor
12-Aug-25	Tuesday				
13-Aug-25	Wednesday				
14-Aug-25	Thursday	HOLIDAY	HOLIDAY		
15-Aug-25	Friday				
16-Aug-25	Saturday				
17-Aug-25	Sunday				
18-Aug-25	Monday	Chronic Periodontitis + Aggressive Periodontiitis	Dr Maha Maqbool	LT5	Assistant Professor
19-Aug-25	Tuesday				
20-Aug-25	Wednesday				
21-Aug-25	Thursday	Problem BASED LEARNING	Dr Ahmad Danyal	LT5	Senior Registrar
22-Aug-25	Friday				
23-Aug-25	Saturday				
24-Aug-25	Sunday				
25-Aug-25	Monday	MIDTERM EXAM			
26-Aug-25	Tuesday				
27-Aug-25	Wednesday				
28-Aug-25	Thursday	Risk assesment + Prognosis	Dr Ahmad Danyal	LT5	Senior Registrar
29-Aug-25	Friday				
30-Aug-25	Saturday				
31-Aug-25	Sunday				
1-Sep-25	Monday	Radiographic aids + treatment plan (diagnosis)	Dr. Maha Maqbool	LT5	Assistant Professor
2-Sep-25	Tuesday				
3-Sep-25	Wednesday				
4-Sep-25	Thursday	Periodontal treatment of medically compromised	Dr Maha Maqbool	LT5	Assistant Professor
5-Sep-25	Friday	EID MILAD-UN-NABI			
6-Sep-25	Saturday				
7-Sep-25	Sunday				
8-Sep-25	Monday	Periodontal treatment of medically compromised	Dr Maha Maqbool	LT5	
9-Sep-25	Tuesday				
10-Sep-25	Wednesday				
11-Sep-25	Thursday	Class Test 4	ALL FACULTY		

12-Sep-25	Friday				
13-Sep-25	Saturday				
14-Sep-25	Sunday				
15-Sep-25	Monday	Periodontal Abscess + treatment	Dr Ahmad Danyal	LT5	Senior Registrar
16-Sep-25	Tuesday				
17-Sep-25	Wednesday				
18-Sep-25	Thursday	Endo-Perio Lesions	Dr Maha Maqbool	LT5	Assistant Professor
19-Sep-25	Friday				
20-Sep-25	Saturday				
21-Sep-25	Sunday				
22-Sep-25	Monday	Plaque biofilm control	Dr Maha Maqbool	LT5	Assistant Professor
23-Sep-25	Tuesday				
24-Sep-25	Wednesday				
25-Sep-25	Thursday	Scaling Root planning	Dr Ahmad Danyal	LT5	Senior Registrar
26-Sep-25	Friday				
27-Sep-25	Saturday				
28-Sep-25	Sunday				
29-Sep-25	Monday	SONic and ultrasonic scaling	Dr Ahmad Danyal	LT5	Senior Registrar
30-Sep-25	Tuesday				
1-Oct-25	Wednesday				
2-Oct-25	Thursday	Breath Malodor	Dr. Maha Maqbool	LT5	Assistant Professor
3-Oct-25	Friday				
4-Oct-25	Saturday				
5-Oct-25	Sunday				
6-Oct-25	Monday	Systemic antibiotic therapy	Dr. Maha Maqbool	LT5	Assistant Professor
7-Oct-25	Tuesday				
8-Oct-25	Wednesday				
9-Oct-25	Thursday	Locally delivered antibiotics	Dr Abrar Humayun	LT5	Assistant Professor
10-Oct-25	Friday				
11-Oct-25	Saturday				
12-Oct-25	Sunday				
13-Oct-25	Monday	Host modulation	Dr Ahmad Danyal	LT5	Senior Registrar
14-Oct-25	Tuesday				
15-Oct-25	Wednesday				
16-Oct-25	Thursday	Class Test 5	ALL FACULTY		
17-Oct-25	Friday				
18-Oct-25	Saturday				
19-Oct-25	Sunday				
20-Oct-25	Monday	General Principals of perio surgery	Dr Maha Maqbool	LT5	Assistant Professor
21-Oct-25	Tuesday				
22-Oct-25	Wednesday				
23-Oct-25	Thursday	Phase 2 Periodontal therapy (pocket)	Dr Ahmad Danyal	LT5	Senior Registrar
24-Oct-25	Friday				
25-Oct-25	Saturday				
26-Oct-25	Sunday				
27-Oct-25	Monday	Periodontal surgical therapy	Dr Ahmad Danyal	LT5	senior Registrar
28-Oct-25	Tuesday				
29-Oct-25	Wednesday				
30-Oct-25	Thursday	Tutorial	ALL FACULTY	LT5	
31-Oct-25	Friday				
1-Nov-25	Saturday				

2-Nov-25	Sunday				
3-Nov-25	Monday	Resective osseous surgery	Dr Abrar Humayun	LT5	Assistant Professor
4-Nov-25	Tuesday				
5-Nov-25	Wednesday				
6-Nov-25	Thursday	Perio regenerative therapy	Dr Maha Maqbool	LT5	Assistant Professor
7-Nov-25	Friday				
8-Nov-25	Saturday				
9-Nov-25	Sunday	ALLAMA IQBAL DAY			
10-Nov-25	Monday	Perio plastic surgery	Dr Ahmad Danyal	LT5	Senior Registrar
11-Nov-25	Tuesday				
12-Nov-25	Wednesday				
13-Nov-25	Thursday	Class Test 6	ALL FACULTY	LT5	All faculty
14-Nov-25	Friday				
15-Nov-25	Saturday				
16-Nov-25	Sunday				
17-Nov-25	Monday	Furcation involvement + treatment	Dr Maha Maqbool	LT5	Assistant Professor
18-Nov-25	Tuesday				
19-Nov-25	Wednesday				
20-Nov-25	Thursday	PRF	Dr Abrar Humayun	LT5	Assistant Professor
21-Nov-25	Friday				
22-Nov-25	Saturday				
23-Nov-25	Sunday				
24-Nov-25	Monday	Restorative interrelationships	Dr Abrar Humayun	LT5	Assistant Professor
25-Nov-25	Tuesday				
26-Nov-25	Wednesday				
27-Nov-25	Thursday	Supportive periodontal therapy	Dr Maha Maqbool	LT5	Assistant Professor
28-Nov-25	Friday				
29-Nov-25	Saturday				
30-Nov-25	Sunday				
1-Dec-25	Monday	Introduction to Implants	Dr Ahmad Danyal	LT5	senior Registrar
2-Dec-25	Tuesday				
3-Dec-25	Wednesday				
4-Dec-25	Thursday	Introduction to new classification	Dr Ahmad Danyal	LT5	Senior Registrar
5-Dec-25	Friday				
6-Dec-25	Saturday				
7-Dec-25	Sunday				
8-Dec-25	Monday	Introduction to new classification	Dr. Maha Maqbool	LT5	Assistant Professor
9-Dec-25	Tuesday				
10-Dec-25	Wednesday				
11-Dec-25	Thursday	Class Test 7	ALL FACULTY	LT5	
12-Dec-25	Friday				
13-Dec-25	Saturday				
14-Dec-25	Sunday				
15-Dec-25	Monday	Problem BASED LEARNING	Dr Maha Maqbool	LT5	Assistant Professor
16-Dec-25	Tuesday				
17-Dec-25	Wednesday				
18-Dec-25	Thursday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
19-Dec-25	Friday				
20-Dec-25	Saturday				
21-Dec-25	Sunday				

22-Dec-25	Monday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
23-Dec-25	Tuesday				
24-Dec-25	Wednesday				
25-Dec-25	Thursday	QUAID-E-AZAM DAY			
26-Dec-25	Friday				
27-Dec-25	Saturday				
28-Dec-25	Sunday				
29-Dec-25	Monday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
30-Dec-25	Tuesday				
31-Dec-25	Wednesday				
1-Jan-26	Thursday	REVISION TEST	ALL FACULTY	LT5	Assistant Professor
2-Jan-26	Friday				
3-Jan-26	Saturday				
4-Jan-26	Sunday				
5-Jan-26	Monday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
6-Jan-26	Tuesday				
7-Jan-26	Wednesday				
8-Jan-26	Thursday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
9-Jan-26	Friday				
10-Jan-26	Saturday				
11-Jan-26	Sunday				
12-Jan-26	Monday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
13-Jan-26	Tuesday				
14-Jan-26	Wednesday				
15-Jan-26	Thursday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
16-Jan-26	Friday				
17-Jan-26	Saturday				
18-Jan-26	Sunday				
19-Jan-26	Monday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
20-Jan-26	Tuesday				
21-Jan-26	Wednesday				
22-Jan-26	Thursday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
23-Jan-26	Friday				
24-Jan-26	Saturday				
25-Jan-26	Sunday				
26-Jan-26	Monday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
27-Jan-26	Tuesday				
28-Jan-26	Wednesday				
29-Jan-26	Thursday	Student Presentations	Dr Maha Maqbool	LT5	Assistant Professor
30-Jan-26	Friday				
01-Feb-26		Send-up Examination	All Faculty		

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)

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- **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)

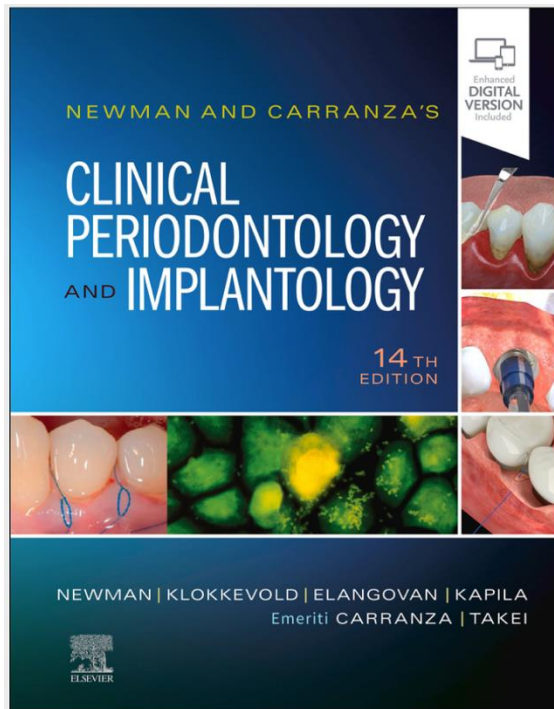
- Internal Assessment: 20 marks
- Theory. 45 marks. 15 short essay type questions
- Multiple choice question 45 marks
- Viva / Oral Examination & Clinical / Practical Examination (90 marks)

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