

**Department of Periodontology**

**Study Guide**

 **2022**

**Course director:**

Dr. M. Nadeem Pasha BDS, MSc, PhD Head of Department

**Contributors:**

Dr. Myra Ahmad BDS, FCPS, FICOI Assistant Professor

Dr. M.Yousaf BDS, FCPS, FICOI Assistant Professor

Dr . Ibrar hummayun BDS, MSC (perio) Assistant professor

**Co-contributers:**

Dr. Maria Tanveer BDS, MFDS (UK) Demonstrator

Dr. Nuvaira Butt BDS, BSc Clinical registrar

Dr. Mehak Bokhari 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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:
	1. Probing
	2. BPE scoring
	3. 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**

1. Students have to prove valid reason for missed test and assignments.
2. Students should inform the HOD prior to the date of scheduled examination.
3. Course director has discretionary power to accept reason only if found reasonable.

**POLICY FOR MARKING ATTENDANCE**

1. Present will be mark for those who will come sharp on time
2. Arrival after 15 minutes will be considered absent
3. Arrival within 15 minutes will be consider late
4. 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**

**(\*) Mandatory Assessment Each Section = 5 marks Maximum Sections= 10**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ROLL NUMBER** |  |  |  |  |  |  |  |  |  |  |
| 1 | Cross Infection control\* |  |  |  |  |  |  |  |  |  |  |
| 2 | History |  |  |  |  |  |  |  |  |  |  |
| 3 | Risk Factors |  |  |  |  |  |  |  |  |  |  |
| 4 | Communication skills |  |  |  |  |  |  |  |  |  |  |
| 5 | Ergonomics |  |  |  |  |  |  |  |  |  |  |
| 6 | Prognosis |  |  |  |  |  |  |  |  |  |  |
| 7 | Diagnosis\* |  |  |  |  |  |  |  |  |  |  |
| 8 | Periodontal Treatment Plan\* |  |  |  |  |  |  |  |  |  |  |
| 9 | Gingival Biotype |  |  |  |  |  |  |  |  |  |  |
| 10 | Mucogingival Junction |  |  |  |  |  |  |  |  |  |  |
| 11 | Probing Technique\* |  |  |  |  |  |  |  |  |  |  |
| 12 | Bleeding on Probing |  |  |  |  |  |  |  |  |  |  |
| 13 | Probing depth & Clinical attachment loss |  |  |  |  |  |  |  |  |  |  |
| 14 | Recession |  |  |  |  |  |  |  |  |  |  |
| 15 | Mobility assessment technique\* |  |  |  |  |  |  |  |  |  |  |
| 16 | Furcation assessment\* |  |  |  |  |  |  |  |  |  |  |
| 17 | Manual scaling technique\* |  |  |  |  |  |  |  |  |  |  |
| 18 | Interdepartmental referral |  |  |  |  |  |  |  |  |  |  |
| 19 | Appropriate oral hygiene instructions |  |  |  |  |  |  |  |  |  |  |
| 20 | Supportive care/ Follow-up regimen |  |  |  |  |  |  |  |  |  |  |
| 21 | Chemotherapeutics |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |
|  | **TOTAL** |  |  |  |  |  |  |  |  |  |  |

**TOPIC Lahore Medical and Dental College**

**3rd year BDS**

**Yearly Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.**  | **Topic** | **Date & Day** | **Facilitator**  | **Chapter** |
|  | Introduction of Periodontology | 11.04.22 | Dr. Myra |  |
|  | Anatomy of Periodontium | 14.04.22 | Dr. Myra | 3 |
|  | Classification and Epidemiology of Periodontal Diseases | 18.04.22 | Dr. Ibrar | 5 |
|  | Pathogenesis  | 25.04.22 | Dr. Myra | 7 |
|  | Contd. | 28.04.22 | Dr. Myra | 7 |
|  | **TEST 1** | **09.05.22** | **ALL FACULTY** |  |
|  | Role of Calculus | 12.05.22 | Dr. Ibrar | 13 |
|  | Periodontal Microbiology | 16.05.22 | Dr. Myra | 8,9,16 |
|  | Smoking | 19.05.22 | Dr. Ibrar | 12 |
|  | Tutorial | 23.05.22 | Demonstrators |  |
|  | Relationship between periodontal health and systemic diseases | 26.05.22 | Dr. Myra | 15,14 |
|  | *continued...* | 30.05.22 | Dr. Myra | 15, 14 |
|  | **TEST 2** | **02.06.22** | **ALL FACULTY** |  |
|  | Gingival pathology: clinical features | 06.06.22 | Dr. Ibrar | 18 |
|  | Gingival inflammation | 09.06.22 | Dr. Myra | 17 |
|  | Acute Gingival infections - Herpetic gingivostomatitis ANUG | 13.06.22 | Dr. Ibrar | 20 |
|  | Tutorial | 16.06.22 | Demonstrators |  |
|  | Acute gingival infections - NUP with treatment of NUG Desquamative | 20.06.22 | Dr. Myra | 20, 2922, 44 |
|  | Gingival enlargement | 23.06.22 | Dr. Ibrar | 19 |
|  | Periodontal Pathology: Pocket | 27.06.22 | Dr. Myra | 23 |
|  | Tutorial | 30.06.22 | Demonstrators |  |
|  | **TEST 3** | **04.07.22** | **ALL FACULTY** |  |
|  | Bone loss and patterns of bone destruction | 07.07.22 | Dr. Ibrar | 24 |
|  | Periodontal response to external forces | 14.07.22 | Dr. Ibrar | 25 |
|  | Chronic Periodontitis | 18.07.22 | Dr. Myra | 27 |
|  | Aggressive Periodontitis | 21.07.22 | Dr. Ibrar | 28 |
|  | Treatment of Aggressive Periodontitis | 25.07.22 | Dr. Ibrar | 43 |
|  | Periodontal Management of HIV patients | 28.07.22 | Dr. Myra | 30 |
|  | Clinical Diagnosis + Radiographs | 18.08.22 | Dr. Yousaf | 32, 33 |
|  | Clinical Risk Assessment with Treatment Planning | 22.08.22 | Dr. Ibrar | 34, 36 |
|  | Determination of Prognosis | 25.08.22 | Dr. Myra  | 35 |
|  | Management of Medically compromised patients | 29.08.22 | Dr. Yousaf | 39 |
|  | *continued...* | 01.09.22 | Dr. Yousaf | 39 |
|  | Management of Female patients | 05.09.22 | Dr. Myra | 41 |
|  | Periodontal abscess | 08.09.22 | Dr. Myra |  |
|  | Endo-Perio lesions | 12.09.22 | Dr. Ibrar | 46 |
|  | Phase I Therapy  | 15.09.22 | Dr. Myra | 47 |
|  | **MID-TERM**  | **19.09.22** | **ALL FACULTY** |  |
|  | Plaque control | 22.09.22 | Dr. Ibrar | 48 |
|  | Breath Malodour | 26.09.22 | Dr. Myra |  |
|  | Scaling and root planing  | 29**.**09**.**22 | Dr. Yousaf | 50 |
|  | **TEST 5** | **10.10.22** | **ALL FACULTY**  |  |
|  | Sonic and ultrasonic instruments | 13.10.22 | Dr. Nadeem | 51 |
|  | Systemic anti-infective therapy | 03.10.22 | Dr. Myra | 52 |
|  | *Continued...*+Locally Delivered, Controlled-Release Antimicrobials | 06.10.22 | Dr. Myra | 52, 53 |
|  | Host Modulation | 17.10.22 | Dr. Ibrar | 54 |
|  | Phase 2 Surgical Treatment | 20.10.22 | Dr. Myra | 57 |
|  | **TEST 6** | **31.10.22** | **ALL FACULTY** |  |
|  | General Principles of Periodontal Surgery | 24.10.22 | Dr. Ibrar | 59 |
|  | Periodontal Surgical Therapy | 27.10.22 | Dr. Myra | 60 |
|  | Treatment of Gingival Enlargement | 03.11.22 | Dr. Nadeem |  |
|  | Resective Osseous Surgery | 10.11.22 | Dr. Nadeem | 62 |
|  | Periodontal Regeneration and Reconstructive Surgery  | 17.11.22 | Dr. Nadeem  | 63 |
|  | Furcation involvement and treatment | 24.11.22 | Dr. Nadeem | 64 |
|  | Periodontal Plastic and Aesthetic Surgery | 01.12.22 | Dr. Myra | 65 |
|  | **TEST 7** | **21.11.22** | **ALL FACULTY** |  |
|  | Leukocyte- and Platelet-Rich Fibrin: Biologic Properties and Applications | 07.11.22 | Dr. Ibrar | 66 |
|  | Preparation of the Periodontium for Restorative Dentistry,Restorative Interrelationships | 14.11.22 | Dr. Myra | 69, 70 |
|  | Supportive Periodontal Treatment | 28.11.22 | Dr. Ibrar | 72 |
|  | Clinical evaluation of Implant patientDiagnostic imaging of implant patientsTreatment planning & basic procedures | 05.12.22 | Dr. Myra | 75, 76, 78 |
|  |  |  |  |  |
|  | **SEND UP** | **26-12-22** | **ALL FACULTY** | **ALL** |
|  | Send Up discussion |  |  |  |
|  | UQ’s discussion |  |  |  |
|  | Clinical Revision |  |  |  |
|  | Chapters that need revision |  |  |  |
|  | Book Marking |  |  |  |

**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  |  |

**FINAL (SEND UP) EXAMINATION**

**Tentative date December 2022**

* + **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* :**

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**Carranza’s Clinical periodontology;** byMicheal G.Newman, Henry H Takei, Perry R. Klokkevold ,Fermin A. Carranza ; 12th edition 20017, Publisher: Elsevier, 1286 pages.

The most definitive and widely used periodontology text for both the classroom and clinical practice, Carranza's Clinical Periodontology, 12th 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.