

The University of Jordan
Faculty of Dentistry
Department of Oral Surgery, Oral Medicine & Periodontics
2011/2012

Course Title: Periodontology 1- Theory

Course Code number: 1301433

Prerequisite: None

Department: Oral Surgery, Oral Medicine and Periodontology.

Module Coordinator(s): Dr. Nicola Barghout

Instructor(s):

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Course Objectives:

- Understanding the basic structure and cell biology of periodontal tissues.
- Discuss composition of plaque and its importance in initiating periodontal disease.
- Outline the importance of calculus and other plaque retentive factors in the etiology of periodontal disease.
- Discuss the occlusion and its relationship to the periodontal disease.
- Introduce epidemiological incidences, prevalences and risk factors of periodontal disease.
- The course is designed to introduce the dental student to periodontal evaluation of patients, diagnosis of periodontal diseases and treatment planning.
- The student should be able to collect clinical and other data required to evaluate the periodontal status of patients.
- The student should acquire basic skills to make appropriate periodontal diagnosis.
- To enable the student to design an effective plaque control program and to recognize acute conditions and recommend appropriate treatment.
- To provide students with basic skills for non-surgical periodontal treatment both ultrasonic and manual scaling, root planning and chemotherapeutic role in treatment of periodontal disease.
- The student should be able to understand the dynamic relationship between periodontal diseases and systemic conditions, such as cardiovascular and pre term labour and low-birth weight babies, diabetes mellitus.

Learning Outcomes:

Successful completion of this course should lead to the following learning outcomes:

- Students should gain essentials of basic knowledge and understanding of the concepts, principles and theories related to Periodontal Disease.
- Students should be able to discuss and explain the interaction between the periodontium and the histopathogenesis.
- Students should be able to visualize, discuss and explain the clinical signs and symptoms of periodontal disease.
- Students should be able to diagnose and discuss the treatment of gingivitis and different forms of periodontitis, and acute conditions affecting the periodontium.
- The student should gain the basic knowledge of chemotherapeutic agents and drug interaction related to drugs prescribed for the treatment of periodontal disease.

A. Knowledge and understanding, student should:

- Develop a wide range of back-ground knowledge and understanding of the basic and pre-disposing factors of Periodontal Disease and their management.
- Have in depth knowledge and skills for the use of manual instrumentations and power driven scalers.

B. Intellectual skills, with ability to:

- Apply the knowledge of the related dental sciences (dental anatomy, occlusion, histopathology and oral medicine) within the context of Periodontology.
- Understand and relate the material and design of manual and power driven scalers and their effectiveness in the treatment of related Periodontal Disease.

C. Subject specific skills, with ability to:

- Classify different Periodontal Diseases according to their aggression and relate the direct etiology of each specific disease and their management.

D. Transferable skills, with ability to:

- Acknowledge the new classification of Periodontal Diseases and the research brought about by the understanding of the cause and effect of such a disease.
- Understand and appreciate the clinical and laboratory research in the development of new chemotherapeutic agents (local drug delivery) as a non-surgical modality of treatment.

- Appreciate the understanding of the treatment of Periodontal Disease in relation to Restorative Dentistry, and the impact of faulty dentistry on Periodontium.

Teaching Methods:

Duration: 32 weeks (4th year).

Lectures: once week (including two 1-hour exams and one 2-hours exam).

Tests and Evaluation:

Computed assisted exams in the form of single best answer:

- First Exam (25%) in November
- Second exam (25%) in March
- Final exam (50%) in June

Course Contents and Weights:

No.	Topic	Lecturer
1	Anatomy & Histology of the Periodontium I	Dr. Ahmad
2	Anatomy & Histology of the Periodontium II	Dr. Ahmad
3	Classification of periodontal diseases	Dr. Ahmad
4	Epidemiology of Periodontal Disease I	Dr. Nicola
5	Epidemiology of Periodontal Disease II	Dr. Nicola
6	Etiology of Periodontal Diseases – Periodontal microbiology (dental plaque)	Dr. Murad
7	Etiology of Periodontal Diseases – Host - microbe interactions in periodontal disease	Dr. Murad
8	Etiology of Periodontal Diseases – Calculus and other local factors	Dr. Murad
9	Etiology of Periodontal Diseases – systemic and environmental factors	Dr. Ahmad
10	Gingivitis	Dr. Abeer
11	Periodontitis	Dr. Nicola
12	Chronic periodontitis	Dr. Nicola
13	Aggressive periodontitis	Dr. Murad
14	Periodontitis as a manifestation of periodontal disease and acute periodontal conditions	Dr. Abeer

15	Gingival enlargement: etiology, clinical presentation and management	Dr. Abeer
16	Examination, Charting & Diagnosis of Periodontal Diseases	Dr. Murad
17	Treatment Planning & Prognosis of Periodontal Diseases	Dr. Murad
18	Principles of Instrumentation	Dr. Murad
19	Plaque Control Methods	Dr. Abeer
20	Non-surgical Management I	Dr. Abeer
21	Non-surgical Management II	Dr. Abeer
22	Host modulation and antimicrobials & antiseptics in periodontal diseases	Dr. Nicola
23	Classification and treatment of furcation involvement	Dr. Murad
24	Occlusal Trauma – Classification & Treatment	Dr. Abeer
25	Periodontal Medicine	Dr. Murad
26	Periodontal Healing & Host Response	Dr. Ahmad
27	Principles of Surgery I	Dr. Ahmad
28	Principles of Surgery II	Dr. Ahmad

References and reading materials:

- Carranza's Clinical Periodontology (Hardcover). 10th edition, by Michael G. Newman, Henry Takei, Fermin A. Carranza.