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| 1 | Course title | Periodontology Practical 2 |
| 2 | Course number | 1301534 |
| 3 | Credit hours (theory, practical) | 1 credit hour practical |
| | Contact hours (theory, practical) | 32 contact hours practical |
| 4 | Prerequisites/corequisites | 1301434 |
| 5 | Program title | DDS degree |
| 6 | Program code | |
| 7 | Awarding institution | - |
| 8 | Faculty | Faculty of Dentistry |
| 9 | Department | Oral & Maxillofacial Surgery, Oral Medicine & Periodontology |
| 10 | Level of course | Advanced |
| 11 | Year of study and semester (s) | 5th year - First and second semesters |
| 12 | Final Qualification | |
| 13 | Other department (s) involved in teaching the course | N/A |
| 14 | Language of Instruction | English |
| 15 | Date of production/revision | Sept. 2019 |

16. Course Coordinator:

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18. Course Description:

Clinical course focused on the examination, diagnosis and treatment of periodontal diseases including diagnostic procedures, surgical and non-surgical therapy and periodontal maintenance.

19. Course aims and outcomes:

A- Aims:

Student should be able to screen their patients for inflammatory Periodontal Diseases using periodontal probe.

Student should be able to give oral hygiene instruction to their patients as appropriate.

Student should be able to disclose and polish the teeth and remove supra- and sub-gingival calculus using manual and sonic scalers.

Student should understand and work within the Dental Hospital cross-infection policy.

The students should have knowledge of treatment planning in Periodontal Disease, charting and assessment for patients with advanced disease.

The students should be able to perform root planning and curettage under local anesthesia.

The student should be able to undertake a gingivectomy and crown lengthening under local anesthesia.

The student should be able, with staff assistance, to perform Modified Widman Flap under local anesthesia.

Student should be able to recognize and treat occlusal trauma by means of selective grinding and hard and soft bite-guards.

Student should understand the relationships between Periodontics and Prosthetic and Conservative Dentistry, and to plan treatment for the patient who has multiple restorative needs.

Student should recognize and manage Periodontal Diseases in the child.

B- Intended Learning Outcomes (ILO's): upon successful completion of this course, students will be able to ...

Knowledge and understanding, student should:

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| Be able to diagnose and establish a successful treatment plan for his patient and carry out different surgical and non-surgical treatment plan modalities for his patient. |
| Be able to establish a follow up treatment plan. |
| Intellectual skills, with ability to: |
| Understand patient's needs and develop the right approach to deal with and treat his patient to the best of his acquired skills and knowledge in Periodontology. |
| Subject specific skills, with ability to: |
| Tat as possible, most of the common periodontaldiseases prevalent among the society, and be able to motivate the patient towards a high standard of Oral Hygiene as it is the best preventive approach to healthy periodontium. |

20. Topic Outline and Schedule:

| Topic | Week | Instructor | Achieved ILO's | Evaluation method | Reference |
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| Clinical patient care | All weeks | Assigned as per schedule | Accumulated throughout the course | Evaluating clinical work | References specified in theoretical courses |

21. Teaching Methods and Assignments:

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| <p>The student has a 2 hour clinical session once every two weeks over the 1st and 2nd semester of the 5th year for a total of 32 clinical contact hours.</p> <p>Teaching will include supervision of clinical patient care and provision of periodontal care, clinical demonstrations and case discussions.</p> |
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| Gingivitis with moderate deposits | 1 point |
| Gingivitis with heavy deposits | 2 points |
| Localized periodontitis (Localized pockets $\geq 5\text{mm}$ involving at least 8 sites) | 3 points |
| Generalized periodontitis (Generalized pockets $\geq 5\text{mm}$ involving at least 30 sites) | 4 points |
| Periodontal maintenance/ Re-evaluation | 1 point |

22. Evaluation Methods and Course Requirements:

The grade for this course is divided into the following components:

Course work (60%): course work performed over the whole year which includes all the cases treated (points & quality), quizzes, assignments and conduct (explained below).

Final Exam (40%):

OSCE exam (20%)

Oral examination (VIVA VOCE) (20%)

Course work requirements:

Course work (60 marks): course work include the following components and the corresponding marks :

Points - cases treated: 15%

Quality - cases treated: 60% (of which 25% will be allocated to periodontitis cases)

Quizzes: 10%

Adherence to CIC policy 10%

Assignments: 5%

Competencies: pass/fail

Points - cases treated:

Students will be providing periodontal treatment to patients in each session. There will be a point system where the student will accumulate points for treating different cases.

Students will be asked to accumulate a minimum of 8 points in order to validate the requirements for the course, provided that at least one case is a periodontitis case with localized or generalized periodontal pocketing.

Cases and point allocation is as follows:

A minimum of 8 points is required to be able to enter the final exam

A maximum of 16 points is acceptable provided that 6 points are for periodontitis cases. Any additional points will not be considered.

A student that accumulates the minimum number of points (8) will be attributed 70% of the mark for points, and so on, upward to 100% of the mark for points when student accumulates the maximum of 16 points.

When there is a case that is not completed, such as when the patient comes for the first visit only, or when the patient interrupts the treatment, the student will be attributed points as follows:

Examination and diagnosis: 0.5 point

Scaling for one arch: 0.5 point

Root planing for one quadrant: 0.5 point

Quality - cases treated:

For each treated case, the student will be evaluated for the following clinical aspects of patient care:

History and examination, Scaling (per arch) and root planing. The evaluation categories are as follows:

Evaluation of History & Examination is as follows:

Grade (A): Students excels in identifying the chief complaint and related history, shows excellent understanding of various medical findings relevant to patient disease or management, Identifies clearly and fully etiological factors and describes accurate and comprehensive diagnosis, formulates a detailed, comprehensive and well-thought treatment plan. Student requires no assistance in this task.

Grade (B): Student identifies the chief complaint and any relevant medical history, dental history, all findings related to the periodontal diseases, properly identifies the diagnosis and the etiological factors, formulates an appropriate treatment plan. Student requires only minimal assistance in this task.

Grade (C): Student doesn't identify certain information related to the chief complaint, relevant medical history, dental history, certain findings related to the periodontal diseases, doesn't formulate the diagnosis correctly, or some of the related etiological factors. Student requires considerable assistance in this task.

Grade (D): Student poorly collects information about the chief complaint, medical history, dental history, poorly identifies clinical findings related to the periodontal diseases, and can't formulate the diagnosis and doesn't identify the basic etiological factors. Student requires full assistance in this task.

Grade (F): Student is unable to identify and collect most basic information from the patient, and is unable to identify the most basic findings related to periodontal diseases, and doesn't identify the etiological factors. Student requires full assistance in this task, yet still lacking basic knowledge of topic.

Evaluation of Scaling & Polishing is as follows:

Grade (A): All tooth surfaces are calculus free both supra- and sub-gingival, including interproximal surfaces. No visible trauma to the tissues. Minimal stains are left. No plaque (soft debris) is detected.

Grade (B): supra-gingival calculus removed but minimal calculus remains subgingivally or in the interproximal surfaces. Moderate trauma to the tissues. Moderate stains are left. Minimal plaque is detected.

Grade (C): supra-gingival calculus removed but significant calculus remains subgingivally or in the interproximal surfaces. Significant trauma to the tissues is evident but localized. Considerable stains are left. Considerable plaque is detected.

Grade (D): supra-gingival calculus remains. Frank and significant calculus remains subgingivally or in the interproximal surfaces. Significant trauma to the tissues is evident and generalized. heavy stains remain. heavy plaque is detected.

Grade (F): Poor result of the treatment. Calculus remaining is abundant. Stains aren't removed. significant trauma to the tissues that requires intervention. Student is unable to use the instruments correctly.

Evaluation of Root Planing is as follows:

Grade (A): No residual calculus or plaque is detected in the pockets. No or minimal trauma to the tissues.

Grade (B): Minimal residual calculus or plaque is present but is localized. No or minimal trauma to the tissues.

Grade (C): Minimal residual calculus or plaque is present but is generalized. moderate tissue trauma.

Grade (D): Significant and generalized residual calculus and plaque are detected. Significant trauma to the tissues. Radicular surface not instrumented properly.

Grade (F): Poor instrumentation. Important trauma to the tissues. Student is unable to use the instruments correctly, or doesn't use the proper instruments.

Quizzes:

During the course, students will be given 4 quizzes of 5-10 minutes each.

The quiz will evaluate the knowledge of the students in periodontology, especially in the aspects that are directly related to the clinical work.

The quiz can be in the form of MCQs, short questions, or short questions about a diagram or a photo

Adherence to cross-infection control (CIC) and clinic policies:

Students are required to adhere to all the enforced policies at student dental clinics including the CIC policies and clinic policies outlined in the periodontics logbook and student clinical manual. A violation of CIC policies or clinic policies as determined by the supervisor result in a 2 point deduction out of a maximum of 10 points.

Examples of violations include, but not limited to, soiled instruments, missing or inadequate personal protective equipment (PPE), poor or non-compliance with surface disinfection protocol, poor handling of instruments or equipment.

Assignments:

Each student must submit an assignment determined or approved by his supervisor.

Assignments include **any** of the following:

A written report on a periodontal surgery procedure that the student either attended or watched a complete video of a periodontal surgery (A list of of the approved videos is available on Moodle)

A essay on a topic relevant to clinical periodontics and determined by the supervisor.

The assignment should be submitted on the electronic learning platform - Moodle no later than the posted deadline.

The report/essay should be concise, without jargon and written in professional terms. The report should be typed. There is no specific format for the report. Diagrams are welcomed.

An example of a properly written surgical report is available on Moodle.

Competencies:

Each student has to complete a set of clinical competencies as part of the practical requirements of the course.

The student should perform the competencies without any assistance from the supervisor or any colleague. multiple competencies on one case.

The should validate his competency work and achieve the minimum points required to be able to enter the final exam.

The student should inform the supervisor of his/her request to perform a competency at the time of his choice, during the clinics allocated to him/her.

The competencies are:

Oral hygiene instructions presentation to the patient.

Presentation and explanation of brushing technique with all the needed details and steps to the patient using models. Student should tell the supervisor the choice of the brushing technique and the reason for that choice prior to the presentation to the patient.

Selection of appropriate oral hygiene aids including interproximal aids. Student should demonstrate to the patient the needed interproximal oral hygiene techniques after informing the supervisor of his/her choice.

If the use of mouthwashes is necessary, the student should explain all the needed details to the patient. Student should tell the supervisor the choice of the brushing technique and the reason for the choice prior to the presentation to the patient.

Periodontal examination, diagnosis and treatment planning.

The periodontal chart should contain the following:

Full-mouth probing.

Plaque score

Bleeding score.

PSR scores.

Recession.

Furcation involvement.

Tooth mobility.

Student should interpret the radiographic findings of periodontal problems.

Student should establish periodontal diagnosis /problem list and document it in the patient's file.

Student should establish periodontal prognosis for individual teeth and for the dentition as whole.

Student should formulate a periodontal treatment plan that addresses all the periodontal problems.

Scaling for one sextant using hand instruments.

The sextant should have all the teeth with at least four teeth with abundant amount of calculus on buccal and lingual/palatal surfaces.

In addition, there should be calculus in interdental spaces.

Supra- & sub-gingival scaling for one sextant:

The sextant should have all the teeth with at least four teeth with abundant amount of calculus on buccal and lingual/palatal surfaces.

In addition, there should be calculus in interdental spaces.

23. Course Policies:

A- **Attendance policies:** Students are allowed 15% absence according to the laws of the university. This stands for 2 clinics for 5th year students in the periodontology practical course.
 B- **Absences from exams and handing in assignments on time:** Any student who comes late to the clinic will lose the marks of the quiz of that clinic.
 C- **Health and safety procedures:** students should adhere to all the stated rules and regulations regarding safety, cross infection control and patient care.
 D- **Honesty policy regarding cheating, plagiarism, misbehavior:** students should adhere to all the stated rules and regulations regarding professional conduct.

24. Required equipment:

Each student is responsible for having an examination set that includes: dental mirror, dental explorer, tweezers and an “acceptable” quality periodontal probe.

An “acceptable” periodontal probe is either the Michigan O probe with Willaims markings (1-2-3 -5 —7-8-9-10 mm markings) or the UNC-12 or -15 mm. CPITN, WHO, Marquiz, ball-end, flat probes are discouraged. The probe should have appropriate dimensions to facilitate probing without discomfort.

25. References:

Carranza Clinical Periodontology and Implant Dentistry; 11th edition
 As assigned by the supervising faculty

Name of Course Coordinator Dr. Murad Shaqman Signature: ----- Date: 11/9/2019

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----