Faculty of Dentistry

ORAL BASIC AND CLINICAL SCIENCES
DEPARTMENT

Course Portfolio

PERIODONTICS

Course Number PERIO 401

O.B.C.S 445

1428 /1429

2007/ 2008
Course Syllabus

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   COURSE MEETING TIMES & PLACES
   COURSE TEACHING METHODOLOGY

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1- INSTRUCTOR INFORMATION
1- INSTRUCTOR INFORMATION

(Periodontics 401)

**Course Director:** Prof. Hakem El-Sayed: building # 11 male section, ground floor, office hours Saturday morning.

**E-mail:** Dr_Hakem2@yahoo.com  Ext# 22531

<table>
<thead>
<tr>
<th>Staff members</th>
<th>Post &amp; Ext.#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Ali Al-Ghamdi</td>
<td>Assistant Professor &amp; Head of the division 21262</td>
</tr>
<tr>
<td>Prof. Hakem El-Sayed</td>
<td>Professor Course director 4th Year 22531</td>
</tr>
<tr>
<td>Prof. Amal El-Hessy</td>
<td>Professor Course director 5th Year 23225</td>
</tr>
<tr>
<td>Prof. Mosaad Al-Sherbini</td>
<td>Professor Course director 6th Year 20013</td>
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<tr>
<td>Dr. Mohammad Al-Zahrani</td>
<td>Assistant Professor 20034</td>
</tr>
<tr>
<td>Dr. Mamdouh Karima</td>
<td>Assistant Professor 20030</td>
</tr>
<tr>
<td>Dr. Nada Al-Ghorab</td>
<td>Assistant Professor 23294</td>
</tr>
<tr>
<td>Dr. Hadir AL-Dessouky</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Hind Al-Johani</td>
<td>Lecturer 23219</td>
</tr>
<tr>
<td>Dr. Dina Al-Tayeb</td>
<td>Lecturer 23217</td>
</tr>
<tr>
<td>Dr. Ahmed Ali AL Hassani</td>
<td>Demonstrator 21206</td>
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<tr>
<td>Dr. Arwa Badahdah</td>
<td>Demonstrator</td>
</tr>
</tbody>
</table>
2- COURSE INFORMATION:

COURSE DESCRIPTION
COURSE MEETING TIMES & PLACES
COURSE TEACHING METHODOLOGY
2- COURSE INFORMATION

COURSE DESCRIPTION

The course enables the student to acquire recognition skills for the diagnosis, prognosis and treatment of periodontal diseases (basically scaling and root planning).

**Didactic part**: Starting with a general understanding of macro & microscopic features of the periodontium and classification of diseases affecting it. Special emphasis will be directed towards preventive periodontics. The etiology and pathogenesis of periodontal disease including the role of dental plaque, calculus and other predisposing factors (including smoking) will be presented and discussed. Gingival tissues defence mechanisms and microbial interaction with the host in periodontal diseases are also presented. The student should be able to know detailed information about periodontal instrumentation and the characteristic features & functions of each instrument in order to prepare them for clinical periodontal treatment. An abroad knowledge of periodontal epidemiology and the role of periodontology in public health dentistry is explained and discussed.

**Clinical part**: The clinical part is focused in the first semester in teaching the student the basic clinical criteria of healthy and diseased gingival tissue and ways of plaque control, methods of patient's education and motivation. They learn examination and recording of all clinical pathological changes of the periodontal tissues, and perform a detailed periodontal charting of periodontal disease. Finally, the student learn the practical instrumentation (instrument...
identification & uses) and performing scaling and root planing on educational
dental models

In the second semester, the students complete two periodontal cases including
diagnosis, prognosis, formulate an adequate treatment plan, performing
scaling and root planing, and re-evaluation of periodontal treatment after at least
one month

COURSE MEETING TIMES & PLACES

- Periodontics 401
- Lecture location: 4th year class room building # 10 for female
  and # 14 for male.
- Lectures Times: 1 Lecture /week (Monday 8-9 am for males)
  and (Monday 1-2 pm for females)
- Clinical sessions: 1 session (Mon 2-5 pm for females) and (Mon
  9-12 am for males)
- Prerequisite: the student should passed 3rd year

COURSE TEACHING METHODOLOGY

● Data show (power point presentation) for course lectures
  presentation. Each class room is provided by lap top
  computer.

● Lectures hand out copy (Lecturer provided lecture hand out
  copy to the class leader to be coped and distributed to all
  students)
• Printed forms and clinical reports (Medical history - Clinical gingival examination - periodontal charting – Student evaluation forms …ect.) - available in the clinical sessions.

• Disclosing tablets (for recording Plaque index) available in the clinical sessions.

• Complete set of periodontal instrument (For instrument identification and uses)

• Educational dental modeles (for performing practical scaling and root planing) each student has his/her model
3- COURSE OBJECTIVES & LEARNING RESOURCES
3- OBJECTIVES & LEARNING RESOURCES

● COURSE OBJECTIVES

Upon the completion of the didactic part of the course,
the student should be able to know

* different types of periodontal diseases

* The etiological factors of periodontal diseases and how to control it

* The clinical, pathological and immunological profile of the disease

* Periodontal instrumentation

Periodontal diagnosis, prognosis and rational of periodontal therapy

Upon the completion of the clinical course, the student should be able to
diagnose and treat simple periodontal cases and evaluate the result of their
treatment. Special emphasis will be directed towards infection control
measures.

● LEARNING RESOURCES

Required Reading:
2- Fundamental of Periodontal Instrumentation and Advanced Root
Instrumentation by Jill S. Nield Gebrig 5th ed, 2004
3- Color Atlas of Dental Medicine 1: Periodontology Edited by
K.H.Reteitschak, 3rd revised edition (Thieme), 2005
2004
5- Color Atlas of Periodontal Therapy: Clinical Approaches and
Evidence of Success, Quintessence Publishing Co. 1998

Faculty Liberary
● For text books & periodic journals in the field of periodontology &
Implantology.
● Free Intern et access is available at Faculty Library
4- COURSE REQUIREMENTS & GRADING
4- COURSE REQUIREMENTS & GRADING

Grading System

1. Continuous assessment 40%

   - Quiz1 10 marks
   - Midterm 35 marks
   - Quiz2 10 marks
   - Clinical requirement:
     - Clinical activity (1st semester) 5 marks
     - One completed case (2nd semester) 10 marks
   - Clinical knowledge test (1st semester) 10 marks

   TOTAL 80 marks

2. Final Examination: 60%

   - Written Exam 80 marks
   - Oral Exam. 20 marks
   - Clinical Test 20 marks
     (Completed periodontal case)

   TOTAL 120 marks

TOTAL MARKS: 200
Criteria for Cases Selection:

1. Patient should have a minimum of 20 teeth.
2. Gingivitis to mild periodontitis with detectable supra- and/or subgingival calculus.
3. Staff approval prior to the start of the case is mandatory.

*For first semester each student must complete the (student clinical activity form) which includes: Normal gingival criteria – pathological changes & (plaque / bleeding indices) – periodontal charting – Practical instrumentation staff evaluation is a must after obtaining each of these clinical steps

**It is mandatory that all students should thoroughly complete at least two patients during second semester; from the start of history taking, examination, charting, diagnosis, and carry out all steps of Phase I therapy and evaluate the result of treatment rendered. In addition, they should demonstrate their ability to identify and sharpen scalers and curettes.

***Last day of submission for perio clinical case requirements will be by April, 15, 2008

Over all Grading Guidelines

The percentage (%) of total grading system will be used in this course

A = Excellent 85% or more of total

B = Very good 75% or more of total but less than 85% of total

C = Good (accepted) 65% or more of total but less than 75% of total

D = Marginally accepted 60% or more of total but less than 65% of total

F = Unacceptable (failed) less than 60% of total marks

Remediation plan: The student who fail will be required to pass re-sit exam with a result of minimum 60% of the total grade. Otherwise he/she will repeat the 4th year.
5- DETAILED COURSE SCHEDULE
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>REMARKS</th>
<th>LECTURER</th>
<th>Reading*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/9/2007</td>
<td>The Gingiva &amp; the Tooth supporting Structures</td>
<td>Dr. Al-Ghamdi</td>
<td>Chapter 1, 2</td>
</tr>
<tr>
<td>2</td>
<td>15/9/2007</td>
<td>Classification of Periodontal Diseases</td>
<td>Dr. Karima</td>
<td>Chapter 4</td>
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<tr>
<td>3</td>
<td>22/9/2007</td>
<td>Periodontal Microbiology</td>
<td>Dr. Al-Ghamdi</td>
<td>Chapter 6</td>
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<tr>
<td>4</td>
<td>29/9/2007</td>
<td>Dental Calculus and Other Predisposing Factors</td>
<td>Dr. H. Al-Johani</td>
<td>Chapter 11, 49</td>
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<td></td>
<td></td>
<td>Plaque Control for the Periodontal Patient</td>
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<tr>
<td>5</td>
<td>20/10/2007</td>
<td>Histopathology and pathogenesis of chronic inflammatory Periodontal Diseases</td>
<td>Dr. Al-Ghorab</td>
<td>Chapter 16</td>
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<tr>
<td>6</td>
<td>27/10/2007</td>
<td>Clinical Features of Gingivitis</td>
<td>Dr. Al-Dessouky</td>
<td>Chapter 17</td>
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<tr>
<td>7</td>
<td>3/11/2007</td>
<td>Medical student day</td>
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<tr>
<td>8</td>
<td>10/11/2007</td>
<td>Periodontal Pocket &amp; Patterns of Bone Loss in Periodontal Diseases</td>
<td>Dr. H. Al-Johani</td>
<td>Chapters 22, 23</td>
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<td>9</td>
<td>17/11/2007</td>
<td>Chronic Periodontitis</td>
<td>Prof. El-Sherbini</td>
<td>Chapters 26</td>
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<td>10</td>
<td>24/11/2007</td>
<td>Periodontal Instrumentation</td>
<td>Prof. El-Sherbini</td>
<td>Chapter 41</td>
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<td>11</td>
<td>1/12/2007</td>
<td>Manual and Ultrasonic Instrumentation</td>
<td>Prof. El-Sherbini</td>
<td>Chapters 42, 43</td>
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<td>12</td>
<td>8/12/2007</td>
<td>Diagnosis of Periodontal Diseases (clinical) &amp; radiographic</td>
<td>Prof. El-Hessy</td>
<td>Chapters 30, 31</td>
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<td><strong>Hajj Vacation</strong>: 13/12/2007 – 28/12/2007.................................3/12/1428 - 18/12/1428</td>
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<td>13</td>
<td>29/12/2007</td>
<td>Treatment Planning &amp; Rationale of Periodontal Therapy</td>
<td>Dr. Al-Tayeb</td>
<td>Chapters 35, 36</td>
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<td>14</td>
<td>5/1/2008</td>
<td>Clinical Test</td>
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### King Abdulaziz University
Faculty of Dentistry
PERIODONTICS

#### Second Semester 2007 - 2008

<table>
<thead>
<tr>
<th>Week</th>
<th>REMARKS</th>
<th>LECTURER</th>
<th>Reading*</th>
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<tr>
<td>1.</td>
<td>Defensive Mechanism of the Gingiva</td>
<td>Prof. El-Sayed</td>
<td>Chapter 15</td>
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<tr>
<td>2.</td>
<td>Microbial interaction with the Host in Periodontal Diseases</td>
<td>Prof. El-Sayed</td>
<td>Chapter 8</td>
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<tr>
<td>3.</td>
<td>Desquamative Gingivitis</td>
<td>Dr. Al Dessouky</td>
<td>Chapter 21</td>
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<td>4.</td>
<td>Gingival Enlargement</td>
<td>Prof. El-Hessy</td>
<td>Chapter 18</td>
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<td>5.</td>
<td>Treatment of Gingival Enlargement</td>
<td>Dr. Al Dessouky</td>
<td>Chapter 59</td>
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<td>6.</td>
<td>Occlusion and Periodontal Disease</td>
<td>Dr. Al-Ghorab</td>
<td>Chapters 24, 52</td>
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<tr>
<td>7.</td>
<td>Smoking and the periodontium</td>
<td>Dr. Al-Ghamdi</td>
<td>Chapter 14</td>
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<tr>
<td>8.</td>
<td>Aggressive/Refractory Periodontitis (diagnosis - treatment)</td>
<td>Dr. M. Karima</td>
<td>Chapters 27, 28 &amp; 40</td>
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<td>9.</td>
<td>Determination of Prognosis</td>
<td>Prof. El-Hessy</td>
<td>Chapter 33</td>
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<tr>
<td>10.</td>
<td>Epidemiology of Gingival and Periodontal Diseases</td>
<td>Dr. Al-Zahrani</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>11.</td>
<td>Supportive periodontal treatment</td>
<td>Dr. Al-Ghorab</td>
<td>Chapter 76</td>
</tr>
<tr>
<td>12.</td>
<td>Revision</td>
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</table>

* Textbook required: Carranza's. Clinical Periodontology, 9th ed
### Division: Periodontics

#### Clinical Session 4\(^{th}\) Year (2007 – 2008)

<table>
<thead>
<tr>
<th>Date</th>
<th>Clinical Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 8/9/2007</td>
<td>Medical history</td>
</tr>
<tr>
<td>2 15/9/2007</td>
<td>Clinical criteria of the gingival tissues (1(^{st}) student)</td>
</tr>
<tr>
<td>3 22/9/2007</td>
<td>Clinical criteria of the gingival tissues (2(^{nd}) student)</td>
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<td></td>
<td><strong>Ramadan Vacation</strong></td>
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<tr>
<td></td>
<td>22/9/1428 – 7/10/1428</td>
</tr>
<tr>
<td>5 20/10/2007</td>
<td>Complete clinical criteria of the gingival tissues</td>
</tr>
<tr>
<td>6 27/10/2007</td>
<td>Practical Oral hygiene - Plaque index – Bleeding index (1(^{st}) student)</td>
</tr>
<tr>
<td>7 3/11/2007</td>
<td>Medical student day</td>
</tr>
<tr>
<td>8 10/11/2007</td>
<td>Practical Oral hygiene - Plaque index – Bleeding index (2(^{nd}) student)</td>
</tr>
<tr>
<td>9 17/11/2007</td>
<td>Periodontal Charting (1(^{st}) student)</td>
</tr>
<tr>
<td>10 24/11/2007</td>
<td>Periodontal Charting (2(^{nd}) student)</td>
</tr>
<tr>
<td>11 1/12/2007</td>
<td>Practical instrumentation – scaling on models</td>
</tr>
<tr>
<td>12 8/12/2007</td>
<td>Revision</td>
</tr>
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<td><strong>Hajj Vacation</strong></td>
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<td></td>
<td>3/12/1428 – 18/12/1428</td>
</tr>
<tr>
<td>13 29/12/2007</td>
<td>Practical instrumentation – scaling on models</td>
</tr>
<tr>
<td>14 5/1/2008</td>
<td>Clinical test</td>
</tr>
</tbody>
</table>

Students need to:

1. Obtain medical history
2. Examine and record clinical criteria of the gingiva.
3. Record Bleeding & plaque indices
4. Complete periodontal charting (on at least ½ mouth)
5. Perform practical instrumentation (identification & uses of instruments)

*Each faculty member will give 15 minutes instruction followed by 15 minutes demonstration before each clinical session (for his/her assigned groups).*
COURSE RELATED MATERIAL

CONTENTS

1- LECTURES OUTLINES & OBJECTIVES

2- LECTURES HANDOUTS

3- EXAMPLES OF EXAMS :
   ● QUIZZES
   ● MIDYEAR
   ● FINAL EXAMS

4 - MODEL ANSWERS OF THE EXAMS
1- LECTURES OUTLINES & OBJECTIVES
1-LECTURES OUTLINES AND OBJECTIVES

Topic # 1
*The gingiva and the tooth supporting structures*

Objective
The student should be able to recognize the microscopic and macroscopic features of the tissues of the periodontium in order to help them understand periodontal diseases. They also should be able to correlate clinical and microscopic features of the normal periodontium. A general understanding of the attachment apparatus of the tooth is also required.

Topic # 2
*Classification of Diseases and conditions affecting the periodontium*

Objective
The student should be able to differentiate between gingivitis and periodontitis. A general understanding of different types of diseases and conditions affecting the Periodontium (based on the 1999 international workshop of Periodontology) is required.

Topic # 3
*Periodontal Microbiology*

Objective
The student should be able to:

- Understand the bacterial pathogens involved in periodontal diseases.
- Understand the macroscopic composition of dental plaque.
- Become familiar with the mechanism of dental plaque formation.
- Understand the microscopic structure and physiologic properties of dental plaque.
- Determine the association of plaque microorganisms with periodontal diseases.
- Become familiar with different criteria for identification of periodontal pathogens.

**Topic # 4**

*Dental Calculus and other Predisposing Factors*

**Objective**

The student should be able to know:

- The composition of calculus, its attachment to the tooth surface, and its effect on the periodontium.
- The differences between supragingival and subgingival calculus.
- The definition of materia Alba, food debris and dental stain (brown stain, black stain, chlorhexidine stain, etc……).
- What is meant by iatrogenic factors and their effects on the periodontium.
- The periodontal problems associated with orthodontic therapy, food impaction, chemical irritation and radiation.
- The effects of unreplaced missing teeth, extraction of impacted third molars, malocclusion and mouth breathing on the periodontium.

**Topic # 5**

*Plaque Control for the Periodontal Patient*

**Objective**

The student should be able to know:

- The importance of plaque control in maintaining the health of the periodontium.
- The importance of plaque control as one of the key elements of the practice
of dentistry.
- The different types of tooth brushes.
- The differences between manual and powered tooth brushes.
- What are dentifrices.
- The different types of tooth brushing methods and their indications.
- The different types of interdental cleansing aids (dental floss, interdental brushes and wooden tips) and their specific indications.
- About oral irrigation devices, chemical plaque control and disclosing agents.
- Recommendations for plaque control instruction.

**Topic # 6**

*Histopathology & pathogenesis of chronic inflammatory periodontal diseases*

**Objective**

The student should be able to know:

Different stages of gingivitis (Loe and Schroeder model)

- Stage I gingivitis: The initial lesion.
- Stage II gingivitis: The early lesion. \{ Reversible lesion \}
- Stage III gingivitis: The established lesion.
- Stage IV gingivitis: The advanced lesion. \{ Irreversible lesion \}

**Topic # 7**

*Clinical features of gingivitis*

**Objective**

The student should be able to know:

- Definition and etiology of gingivitis and inflammation.
- Criteria of plaque induced chronic gingivitis including the clinical and radiographical evidences.
- The histopathological changes and its relation to the clinical features.
- Mechanism and clinical value of gingival bleeding.
- Course, duration and distribution of plaque induced chronic gingivitis.
- Tissue response to treatment.

**Topic # 8**

*The Periodontal Pocket & patterns of bone loss in periodontal diseases*

**Objective**

The student should be able to know:

- The classification, clinical features and pathogenesis of the periodontal pocket.
- The relationship of loss of attachment and bone loss to pocket depth and the relationship of the periodontal pocket to bone.
- The mechanism of periodontal abscess formation.
- The etiology of periodontal cyst.

**Topic # 9**

*Chronic Periodontitis*

**Objective**

The student should be able to know:

- Definition of chronic periodontitis.
- Criteria selected to define chronic periodontitis.
- Etiology and pathogenesis of chronic periodontitis.
- Clinical and radiographic evidences of chronic periodontitis.
- Symptoms of chronic periodontitis.
- Prevalence of chronic periodontitis.
- Disease progression including signs and factors influence disease progression.
- Classification of chronic periodontitis according to disease distribution and disease severity.
- Tissue response to treatment.

**Topic # 10**

*Periodontal instruments*

**Objective**

The student should be able to know:

- General facts and knowledge about the periodontal instruments including parts, design, name and number.
- Classification of non-surgical hand activated periodontal instruments.
- Identification of the calculus removal instruments including the main characteristics features and function of each instrument.
- Standard Gracey Curettes as a representative of the area specific curettes.
- Different modifications of standard gracey curettes.
- Sonic and ultrasonic instrumentation.

**Topic # 11**

*Principles of periodontal instrumentation*

**Objective**

The student should be able to know:

- Definition of scaling and root planing.
- General principles for effective instrumentation such as:
  - Position of the patient and the operator.
  - Proper selection of the instruments suitable for area and procedure.
- Instrument grasp.
- Finger rest.
- Adaptation and angulation (working angle).
- The use of sharp instruments.
  - Instrument sharpening including:
    - Objectives.
    - Evaluation techniques.
    - Sharpening stone.
    - Principles of sharpening.

**Topic # 12**

*diagnosis of periodontal disease (clinical and radiographic)*

**Objective**

The student should be able to know:
- The importance of periodontal charting.
- Recognition of deviation from normal.
- Probing theory and accurate probing.
- Identification of mucogingival problems.
- Detection of furcation involvement.
- Tooth mobility.
- Recording the above finding in the periodontal chart.
- Recognition of charting symbols as listed in the periodontal chart.
- Record radiographic findings that will aid in diagnosis of periodontal disease.
- Diagnosis of gingival and periodontal disease.
- Determination of prognosis of the existing periodontal disease.
- Estimation of the various factors that lead to the patient’s problem.
Topic # 13

*Treatment Planning & rationale of periodontal therapy*

**Objective**
The student should be able to:
- Identify the different phases of periodontal therapy.
- Establish the correct decision making regarding extracting or preserving a periodontal affected tooth.
- Apply the treatment plan phase to a real patient treatments in the clinical session.
- Know how to explain the treatment plan to a patient.
- Identify situations that need systemic therapy.
- Understand the factors that affect the healing phase.
- Understand the difference in healing between regeneration, repair and new attachment.

Topic # 14

*Defensive mechanisms of the gingiva*

**Objective**
The student should be able to know:
- What is meant by defence mechanisms of the gingival tissue.
- The role of:
  - Leukocytes in the dentogingival area.
  - Saliva: regarding its’ antibacterial effects, salivary antibodies, buffering, coagulation factors, and leukocytes content.
Topic # 15

**Microbial interaction with the host in periodontal disease.**

**Objective**
The student should be able to know:

- Microbial and Host interaction.
- Microbial aspect of the interaction including:
  - Bacterial colonization in the tooth surface.
  - Mechanisms of tissue destruction.
- Immunological aspects:
  - Initiation of inflammation.
  - Role of Neutrophils.
  - Proinflammatory mediators involved.
  - Healing process in periodontitis.
- Microbiology and immunology in periodontal health and disease.

Topic # 16

**Desquamative Gingivitis**

**Objective**
The student should be able to:

- Understand the clinical criteria of desquamative gingivitis.
- Become familiar with different diseases clinically presenting as desquamative gingivitis.
- Become familiar with different histopathologic tests used for identification of these diseases.
- Identify which tests should be used based on clinical criteria.
- Diagnose the systemic disease based on clinical and laboratory investigations.
- Understand the treatment for each disease and when to refer the patient to the physician for further medical evaluation.

**Topic # 17**

**Gingival Enlargement & treatment of gingival enlargement (2 lectures)**

**Objective**

The student should be able to know:

- Classification of gingival enlargement.
- Inflammatory enlargement.
- Drug-induced gingival enlargement.
- Enlargement associated with systemic diseases.
- Neoplastic enlargement.
- False enlargement.
- Treatment of the different types of gingival enlargement.
- Recurrence of gingival enlargement:
  - Complication.
  - Treatment.

**Topic # 18**

**Occlusion & periodontal disease:**

**Objective**

The student should be able to know:

- Adaptive capacity of the periodontium to occlusal forces.
- Definition of trauma from occlusion (TFO).
  - Acute and chronic TFO.
- Primary and secondary TFO.
  - Tissue response to increased occlusal forces.
  - Effect of insufficient occlusal force.
  - Reversibility of traumatic lesion.
  - Influence of TFO on progression of marginal periodontitis.
  - Clinical and radiographic signs of TFO.
  - Pathologic tooth migration.

Topic # 19

**Smoking and the periodontium**

**Objective**

The student should be able to:

- Understand the effect of smoking on the prevalence and severity of periodontal diseases.
- Understand the effects of smoking on the etiology and pathogenesis of periodontal diseases.
- Understand the effect of smoking on the response to periodontal and implant therapy.
- To become familiar with different protocols used for smoking cessation.

Topic # 20

**Aggressive/Refractory periodontitis (diagnosis and treatment) (2 lectures)**

**Objective**

The student should be able to:

- Define the terminology of aggressive and refractory periodontitis.
- Recognize the types of aggressive periodontitis and their clinical and radiographic features.
- Identify the various risk factors for aggressive periodontitis:
  - Microbiologic factors
  - Immunologic factors
  - Genetic factors
  - Environmental factors
- Determine the appropriate treatment modality of each disease category.

**Topic # 21**

* Determination of prognosis

**Objective**

At the end of the lecture students should be able to know the following:

1. Definition of prognosis
2. Overall versus individual tooth prognosis
3. Factors to be considered when determining prognosis
4. Relationship between diagnosis and prognosis
5. Prognosis for patients with gingival disease
6. Prognosis for patients with periodontitis
7. Re-evaluation of prognosis after phase I therapy

**Topic # 22**

*Epidemiology of Periodontal Diseases*

**Objective**

The student should have a broad knowledge of periodontal epidemiology and the role of periodontology in public health dentistry. They also need to understand the basic concepts of research, methodology and how it could be applied to periodontal research.
Topic # 23

Supportive Periodontal Treatment (SPT)

Objective
The student should be able to know:

- Rationale for SPT.
- Efficacy of SPT.

- Maintenance program:
  - Examination & evaluation.
  - Checking of plaque control.
  - Treatment.
  - Recurrence of periodontal disease.

- Frequency and time allocated for SPT.
- Classification of post-treatment patients.
- When to refer patients to the periodontists.
- Maintenance for dental implant patients.
Student's Evaluation and Grading Sequences

Grading System

1. Continuous assessment 40%
   - Quiz 10 marks
   - Midterm 35 marks
   - Quiz 10 marks
   - Clinical: 1. Two completed cases 15 marks
   - 2. Clinical test 10 marks

   TOTAL 80 marks

2. Final Examination: covering the entire course 60%
   - Written Exam 80 marks
   - Oral Exam. 20 marks
   - Clinical Test 20 marks

   TOTAL 120 marks

* comprehension of course objectives

Criteria for Cases Selection:

1. Patient should have a minimum of 20 teeth.

2. Gingivitis to mild periodontitis with detectable supra- and/or subgingival calculus.

3. Staff approval prior to the start of the case is mandatory.

Grading System

1. Continuous assessment 40%

- Quiz1 10 marks
- Midterm 35 marks
- Quiz2 10 marks

Clinical requirement:

- Clinical activity (1st semester) (5)
- One completed case (2nd semester) (10)

Clinical knowledge test (1st semester) 10 marks

**TOTAL** 80 marks

2. Final Examination: covering the entire course 60%

- Written Exam 80 marks
- Oral Exam. 20 marks
- Clinical Test 20 marks

(Completed periodontal case)

**TOTAL** 120 marks

Criteria for Cases Selection:

1. Patient should have a minimum of 20 teeth.

2. Gingivitis to mild periodontitis with detectable supra- and/or subgingival calculus.

3. Staff approval prior to the start of the case is mandatory.
** It is mandatory that all students should thoroughly complete at least two patients from the start of history taking, examination, charting, diagnosis, and carry out all steps of Phase I therapy and evaluate the result of treatment rendered. In addition, they should demonstrate their ability to identify and sharpen scalers and curettes.

**Overall Grading Guidelines**

The percentage (%) of total grading system will be used in this course

A = Excellent 85% or more of total

B = Very good 75% or more of total but less than 85% of total

C = Good (accepted) 65% or more of total but less than 75% of total

D = Marginally accepted 60% or more of total but less than 65% of total

F = Unacceptable (failed) less than 60% of total

Remediation plan:

The student who fail will be required to pass re-sit exam with a result of minimum 60% of the total grade. Otherwise he/she will repeat the 4th year.
Division : Periodontics

Clinical Session 4\textsuperscript{th} Year (2007 – 2008)

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<th>Date</th>
<th>Clinical Session</th>
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<tr>
<td>8/9/2007</td>
<td>Medical history</td>
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<tr>
<td>15/9/2007</td>
<td>Clinical criteria of the gingival tissues (1\textsuperscript{st} student)</td>
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<tr>
<td>22/9/2007</td>
<td>Clinical criteria of the gingival tissues (2\textsuperscript{nd} student)</td>
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<td>4/10/2007 – 19/10/2007</td>
<td>Ramadan Vacation (4/10/1428 - 19/10/1428)</td>
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<td>20/10/2007</td>
<td>Complete clinical criteria of the gingival tissues</td>
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<td>27/10/2007</td>
<td>Practical Oral hygiene - Plaque index – Bleeding index (1\textsuperscript{st} student)</td>
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<tr>
<td>3/11/2007</td>
<td>Practical Oral hygiene - Plaque index – Bleeding index (2\textsuperscript{nd} student)</td>
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<tr>
<td>10/11/2007</td>
<td>Periodontal Charting (1\textsuperscript{st} student)</td>
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<td>17/11/2007</td>
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<td>Practical instrumentation – scaling on models</td>
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<td>8/12/2007</td>
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