



KING SAUD UNIVERSITY  
College of Dentistry  
Department of Periodontics  
and Community Dentistry



**313 PCS**

# **CLINICAL PERIODONTOLOGY I**

**COURSE DIRECTOR : Dr. Nouf Alshibani**

**COURSE COORDINATOR : Dr. Hend Alharbi**

**Academic Year  
1435/1436 H (2014/2015 G)**

## Reviewed and Updated by

### PCS Department Courses Review and Update Committee

~ Prof. Nahid Ashri	Chairperson
~ Prof. Nadir Babay	Member
~ Dr. Salwa Al Sadhan	Member
~ Dr. Amel Darwish	Member
~ Dr. Reem Al Kattan	Member
~ Dr. Mansour Al Askar	Member

COURSE TITLE: CLINICAL PERIODONTOLOGY I

COURSE CODE: PCS 313

CREDIT HOURS: 4 hours (1 hour- Lecture & 3 hours -Clinic)

PREREQUISITES: None

### INTRODUCTION:

Gingival and periodontal diseases are common pathological conditions that continue to affect the supporting structures of the dentition in different parts of the world. The Clinical Periodontology I course runs over one year. It reviews and expands the student's knowledge of the biology of healthy periodontium; introduces the student to the current classification of periodontal diseases; and provides the fundamental knowledge of the etiology, microbiology, and diagnosis of periodontal diseases. Basic information will be integrated with necessary clinical skills to systematically evaluate and diagnose all currently recognized forms of periodontal diseases, and formulate a comprehensive treatment plan. This includes the ability to recognize the less common forms of gingivitis and periodontitis and those systemic conditions that may influence the initiation, progression, or treatment of periodontal diseases.

### COURSE DESCRIPTION:

This course consists of didactic, pre-clinical and clinical components. It covers the following:

1. Periodontium in health.
2. Etiology, pathogenesis, and classification of periodontal diseases.
3. Systematic examination, diagnosis, treatment planning and management of patients with non-advanced periodontal diseases.
4. Principles and techniques of prevention and therapy of periodontal diseases.
5. Re-evaluation of the patient response to the given periodontal treatment.
6. Periodontal instrumentation, including the proper use and handling of the periodontal instruments.

### COURSE OBJECTIVES:

At the end of this course the student should be able to:

1. Present a complete patient record, including the history and comprehensive clinical and radiographic examination of the periodontium as well as other oral tissues.
2. Develop the appropriate diagnosis, identify prognosis and formulate a multidisciplinary treatment plan of periodontal diseases.
3. Master the ability to motivate and customize a home-based plaque control regime for each individual patient.
4. Become competent in the prevention, assessment and management of periodontal diseases.
5. Distinguish between healthy and diseased periodontium based on the knowledge of the biology of the periodontal structures and the pathological mechanisms of periodontal diseases.
6. Demonstrate the ability to identify the presence of local irritants and the competency necessary to eliminate them.
7. Use and handle various periodontal instruments effectively.

## COURSE REQUIREMENTS:

*Students must satisfactorily complete the following minimum requirements:*

Finish at least three (3) clinical cases:

- Two case with gingivitis including slight/moderate amount of calculus and/or systemic factors.
- One case with generalized periodontitis including slight/moderate amount of subgingival calculus and/or systemic factors
- One gingivitis or slight periodontitis re-evaluation case **from the students self treated patients**

## COURSE PROTOCOL:

- Screening of clinical cases by the **COURSE DIRECTOR** is mandatory.
- Approval of the **COURSE DIRECTOR** to dismiss or transfer patients is mandatory.
- **SIGNING AND APPROVING** of the treatment plan by your supervisor is mandatory before starting the treatment procedures
- Students are expected to perform **satisfactorily** in both Didactic and Clinical components of the course
- The Clinical Evaluation Form will be strictly followed for each clinical procedure, and the instructor must sign each step during the session.
- All report of the assigned patients should be kept with the student.
- The student should maintain discipline with regards to attending the clinic sessions on time.
- The students are expected to maintain a good relationship with his/her patients, colleagues and instructor alike.
- The student must always observe cleanliness and neatness in appearance and wear their proper clinical gowns, ID, head cover and goggles during the clinical session; otherwise they will not be allowed to perform their clinical procedures.
- It is the responsibility of the student to complete the patient's permanent file, indicating clearly the name, university number and signature of the students. A temporary file is not acceptable.
- At the end of each clinical session the student should obtain the signature of the instructor.
- The patient's file, without the signature of the assigned instructor, shall be considered as an incomplete clinical procedure, and will affect your daily grade.
- In a situation where the patient is unable to attend the clinic, the instructor should immediately be notified.
- Students should attend the clinic session despite the absence of their patients.
  
- Each student must fulfill the minimum treatment requirements of the course (3 patients).
- The quality of treatment for each clinical step provided will be of primary concern in the assignment of the final grade.
- Regularity, punctuality & adherence to college didactic & clinical regulation in treating patients must be strictly observed and will be graded.
- Your instructor will continually monitor your clinical skills, behavior and patient management.
- All patients under the student's care will undergo routine evaluation.
- Scaling and root planing will be evaluated on a quadrant or sextant basis.
- The STUDENT is responsible to assure that his/her clinical work is regularly evaluated.
- The clinical mark will be severely affected if the Student will show:
  - ▶▶ Poor management of the case

- ▶▶ Repeated ignorance to given instructions
- ▶▶ Unacceptable behavior with patients and/or clinical instructors.
- Student who fails to finish the clinical work during the allotted clinical time per session will receive a zero mark. Another Zero (0) will cancel the clinical requirement for that case with the student continuing to treat the clinical case.
- All performed clinical procedures should be recorded in the patient's file.
- It is the Student responsibility to prepare the clinic before starting the treatment. Radiographs, treatment plan, saline and sharpened instrument should always be available in the clinic.
- Attendance to the lectures and the clinic is mandatory. Being 10 minutes late to the lecture or 15 minutes late to the clinical session will be considered as absence affecting the student's evaluation.
- King Saud University rules and regulations stipulate that missing 25% of the lecture or the clinical sessions will deprive the student from setting in the final exam.
- It is the students responsibility to coordinate with the Booking Area for patients appointments
- Student who does not fulfill the all the above-mentioned items will have their final grade negatively affected

**MEASUREMENT AND EVALUATION:**

*Final mark will be calculated as follows:*

<b>A. CONTINUOUS YEARLY EVALUATION</b>	<b>(60%)</b>
1. Clinical evaluation	25%
2. Mid-Year Clinical examination (I)	10%
3. Mid-Year examination	15%
4. Punctuality/quizzes	10%
<b>B. FINAL EXAMINATION</b>	<b>(40%)</b>
1. Written examination	25%
2. Final Clinical examination (II)	15%
<b>TOTAL</b>	<b>100%</b>

The final written examination includes all course materials presented during the year. Daily clinical evaluation will be in the categories of preparation, professionalism, knowledge and management of the patients.

**Note:** Failure to meet the professional and ethical responsibilities towards the patients will affect the student's grade

**ROUTINE EVALUATION MARKS:**

This evaluation measures the quality of the work performed by the student during the management of his/her periodontal patients. Marks will be calculated using the point system depending on the case selection and the procedure:

- Gingivitis case 1 point out of 15
- Slight periodontitis case 1.5 points out of 15

- Moderate periodontitis case 3 points out of 15
- Severe periodontitis case 3 points out of 15
- Re-evaluation after initial therapy of a case 3 points out of 15
- Recall of a finished case treated by student 2 points out of 15
- Periodontal surgery/implant case report 1.5 points out of 15

### REQUIREMENT MARKS:

- A clinical treated case will not be considered in the requirement until it has a passing grade of 60%.
- Any grade below 60% will only be counted in the routine evaluation.
- Accordingly each requirement case will be calculated in accordance with their type as the following:

*Example: Student treats a slight periodontitis case (examination, diagnosis, treatment plan and initial therapy, scaling and root planing) and the calculated average of the case from student evaluation form is 80% then the point for this case is:*

$$(80 \times 1.5) \div 100 = 1.2 \text{ out of 1.5 points}$$

### REQUIRED TEXT:

1. **Carranza's Clinical Periodontology**, 11<sup>th</sup> edition, Michael G. Newman, Henry Takei, Perry R. Klokkevold, and Fermin A. Carranza (editors), Saunders Elsevier, 2011.
2. **Color Atlas of Dental Medicine 1, Periodontology**, 3<sup>rd</sup> ed. Herbert F. Wolf, Edith M. Rateitschak-Pluss, Klaus H. Rateitschak, Thieme Inc., 2005.

### Periodontal examination and evaluation forms:

The forms, lectures and the clinical manual required for this course can be downloaded from the website: <http://faculty.ksu.edu.sa/nalshibani/default.aspx>

**Course Director, Course Coordinator and Participating Faculty Contact Information:**

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# 313 PCS

## CLINICAL EVALUATION GUIDELINES

GRADE	CLINICAL PROCEDURES
	<p>Students will be evaluated for the following:</p> <ul style="list-style-type: none"> <li>• Attitude</li> <li>• Professionalism</li> <li>• Cleanness of the field</li> <li>• Organization</li> <li>• Availability of the charting and dental radiographs</li> <li>• Scaling and root planning</li> </ul>
90-100	<ul style="list-style-type: none"> <li>• No injury to the gingival tissue</li> <li>• No roughness left</li> <li>• Good knowledge</li> <li>• Complete removal of sub- &amp; supra-gingival calculus</li> </ul>
80-89	<ul style="list-style-type: none"> <li>• No injury to the gingival tissue</li> <li>• <u>Localized</u> roughness left</li> <li>• Complete removal of sub- &amp; supra-gingival calculus</li> </ul>
70-79	<ul style="list-style-type: none"> <li>• Some injury to the gingival tissue</li> <li>• Unable to detect localized areas of sub-gingival calculus</li> <li>• <u>Multiple areas</u> with root roughness left</li> </ul>
60-69	<ul style="list-style-type: none"> <li>• Obvious injury to the gingival tissue</li> <li>• <u>Multiple areas</u> with sub- &amp; supra-gingival calculus</li> </ul>
<60 (Fail)	<ul style="list-style-type: none"> <li>• Remarkable injury to the gingival tissue</li> <li>• <u>Unable to detect huge amount of sub- &amp; supra-gingival calculus</u></li> <li>• <u>Does not deserve to pass (unsafe)</u></li> </ul>



## CLASSIFICATION OF PERIODONTAL DISEASES (AAP 1999)

GINGIVAL DISEASE	Plaque induced gingival disease	I-A1	Gingivitis associated with plaque only			
		I-A2	Gingival disease modified by systemic factors e.g. puberty, diabetes			
		I-A3	Gingival disease modified by medication e.g. phenytoin			
		I-A4	Gingival disease modified by malnutrition e.g. vitamin C deficiency			
	Non-plaque induced gingival disease	I-B1	Gingival disease of specific bacterial origin e.g. syphilis			
		I-B2	Gingival disease of specific viral origin e.g. herpes infection			
		I-B3	Gingival disease of fungal origin e.g. candidiasis			
		I-B4	Gingival disease of genetic origin e.g. hereditary fibromatosis			
		I-B5	Traumatic lesion of the gingival i.e. chemical, physical, thermal			
		I-B6	Foreign body reaction of the gingival			
PERIODONTITIS	Chronic Periodontitis	II-A1	Slight	1-2mm clinical attachment loss	Generalized >30% of sites involved	Localized <30% of sites involved
		II-A2	Moderate	3-4mm clinical attachment loss		
		II-A3	Severe	5mm or more clinical attachment loss		
	Aggressive Periodontitis	II-B	Absence of large amount of plaque and calculus		Generalized >30% of sites involved	Localized <30% of sites involved
	Periodontitis as manifestation of systemic disease	II-C	Such as periodontitis in acquired neutropenia or leukemia			
NECROTIZING PERIODONTAL DISEASE		III-A	Necrotizing ulcerative gingivitis			
		III-B	Necrotizing ulcerative periodontitis			
ABSCESSSES OF PERIODONTIUM		IV-A	Gingival abscess			
		IV-B	Periodontal abscess			
		IV-C	Pericoronal abscess			
PERIODONTITIS ASSOCIATED WITH ENDODONTIC LESIONS		V-A	Endo-perio lesion			
		V-B	Perio-endo lesion			
		V-C	Combined lesion			
DEVELOPMENTAL OR ACQUIRED DEFORMATIES AND CONDITIONS		VI-A	Localized tooth-related factors that predispose to plaque induced gingival diseases or periodontitis.			
		VI-B	Mucogingival deformities and conditions around teeth			
		VI-C	Mucogingival deformities and conditions around edentulous ridges			
		VI-D	Occlusal trauma			

**PROGNOSIS CLASSIFICATION**  
**McGuire & Nunn, 1996**

GOOD	Control of the etiologic factors and adequate periodontal support as measured clinically and radiographically to ensure the tooth would be relatively easy to maintain by the patient and clinician assuming proper maintenance
FAIR	Approximately 25% attachment loss as measured clinically and radiographically and/or class I furcation involvement.  The location and depth of the furcation would allow proper maintenance with good patient compliance.
POOR	50% attachment loss and/or class II furcations.  The location and depth of the furcations would allow proper maintenance, but with difficulty.
QUESTIONABLE	>50% attachment loss resulting in a poor crown/root ratio.  Poor root form, class II furcations not easily accessible to maintenance care, or class III furcations.  ≥2+ mobility.  Significant root proximity.
HOPELESS	Inadequate attachment to maintain the tooth in health, comfort, and function. Extraction is suggested.

STUDENT'S PROGRESS  
313 PCS  
FIRST SEMESTER

Date	Requirement	Complete	In Progress	Needed

STUDENT'S PROGRESS  
313 PCS  
SECOND SEMESTER

Date	Requirement	Complete	In Progress	Needed

**DEPARTMENT OF PERIODONTICS AND COMMUNITY DENTISTRY  
DIVISION OF PERIODONTICS**

**313 PCS**

**Clinical Evaluation Form**

Patient's Name \_\_\_\_\_

Patient's File No: \_\_\_\_\_

Case Diagnosis:

Severity of local factor: slight - moderate – severe

Extent of local factor: localized - generalized

Faculty Signature: \_\_\_\_\_

PROCEDURE	GRADE	FACULTY SIGNATURE
<ul style="list-style-type: none"> <li>• <b>Part I – Initial Examination</b></li> <li>1. Chief complaint, oral history, medical history</li> <li>2. Extra- and intra- oral examination</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Part II- Clinical Examination</b></li> <li>1. Periodontal charting</li> <li>2. Radiographic interpretation</li> <li>3. Oral and periodontal diagnosis</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Part III –Treatment Plan</b></li> <li>1. Motivation, OHI, periodontal treatment plan</li> <li>2. Other dental treatment specialties needed</li> <li>3. Initial surgical treatment plan</li> <li>4. Overall and individual tooth prognosis</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Part IV – Therapy</b></li> <li>1. Motivation and oral hygiene performance</li> <li>2. Gross scaling and polishing</li> <li>3. Scaling and root planning                             <ul style="list-style-type: none"> <li>a. Quadrant I</li> <li>b. Quadrant II</li> <li>c. Quadrant III</li> <li>d. Quadrant IV</li> </ul> </li> <li>4. Availability of the charting and x-ray</li> <li>5. Cleanness and instruments sharpening</li> <li>6. Attitude</li> <li>7. Professionalism</li> <li>8. Organization</li> <li>9. Surgical Procedure                             <ul style="list-style-type: none"> <li>▪ Quadrant</li> <li>▪ Teeth</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Part V – Re-evaluation</b></li> <li>1. Plaque, bleeding indices and re-evaluation findings</li> <li>2. Definitive treatment plan</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Part VI – Recall and maintenance</b></li> </ul>		

Faculty Signature: \_\_\_\_\_

TOTAL GRADE:

TOTAL POINTS:

# Student's Performance

PATIENT NUMBER	CLINICAL DIAGNOSIS	SEVERITY LOCAL FACTORS	REQ/ADDIT	CLINICAL EVALUATION AVREAGE	POINTS
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
<b>Total</b>					
Additional Points					

MIDTERM EXAM 20	FINAL CLINICAL EXAM I 10	CASE PRESENTATION 10	TOTAL 40	PUNCTUALITY 10	CLINICAL REQR. 15	CLINICAL EVALU. 15	TOTAL 40

# LECTURE SCHEDULE

313 PCS  
2014-2015

<b>FIRST SEMESTER</b>			
DATE	LECTURE	CLINIC	LECTURER
2/9/2014	Course introduction	Introduction to clinical session, course forms and requirements (lecture room)	Dr. Alshibani Dr. Alaskar
9/9/2014	Classification of diseases & conditions affecting the periodontium (Chapter 4)	Demonstration on the clinical forms	Dr. Alshibani Dr. Alsarhan
16/9/2014	Periodontal anatomy (gingiva & periodontal ligament) (Chapter 2 at <a href="http://www.expertconsult.com">www.expertconsult.com</a> )	Demonstration on the clinical forms	Dr. Alhazmi Dr. Alhamdan
<b>Hajj Break</b>			
14/10/2014	Periodontal anatomy (cementum & alveolar bone) (Chapter 2 at <a href="http://www.expertconsult.com">www.expertconsult.com</a> )	Demonstration on chair position/ students probing each other	Prof. Awaratani
21/10/2014	Epidemiology of periodontal diseases (Chapter 5)	Faculty case	Dr. Alajlan Prof. Anil
28/10/2014	Periodontal microbiology (Chapter 23)	Faculty case	Dr. Nath Dr. Alzoman
4/11/2014	Periodontal case presentation	Periodontal case presentation	Dr. AL Omar Dr. ALghamdi
11/11/2014	Periodontal pathogenesis (Chapter 21)	Student case (start)	Dr. Alahmari Dr. Alaskar
18/11/2014	Host response: basic concepts (Chapter 25)	Student case (continue)	Dr. Shaheen Dr. Alaskar
25/11/2014	Role of dental calculus & other local predisposing factors (Chapter 22)	Student case (continue)	Dr. Nath Prof. Anil
2/12/2014	Periodontal pocket & patterns of bone destruction (Chapter 13 & 14)	Student case (continue)	Dr. Alhazmi Dr. Alqutub
9/12/2014	Clinical features of gingivitis & chronic periodontitis (Chapter 8 & 16)	Student case (continue)	Dr. Alsinaidi Dr. Alqutub
16/12/2014	Clinical diagnosis (Chapter 8: pg. 82-83 & chapter 30)	Student case (continue)	Dr. Alomar Dr. Alshehri
23/12/2014	Course review	Student case (continue)	Dr. Alshibani Dr. Alaskar
30/12/2014	<b>Midterm Written and 1<sup>st</sup> Clinical Examination</b>		

**LECTURE SCHEDULE**  
**313 PCS**  
**2014-2015**

<b>SECOND SEMESTER</b>			
<b>DATE</b>	<b>LECTURE</b>	<b>CLINIC</b>	<b>LECTURER</b>
27/1/2015 26/1/2015	Radiographic aids in the diagnosis of periodontal disease (Chapter 31)	Patients	Dr. Shaheen Dr. Alghamdi
3/2/2015 2/2/2015	Prognosis & rationale for periodontal treatment (Chapters 33 & 35)	Patients	Dr. AlOtaibi Dr. Alqutub
10/2/2015 9/2/2015	Periodontal treatment plan (Chapter 34)	Patients	Dr. Alhazmi Dr. Alaskar
17/2/2015 16/2/2015	Non-surgical periodontal therapy I: Mechanical & chemical plaque control (Chapter 44)	Patients	Dr. Alshibani Dr. AlHamoudi
24/2/2015 23/2/2015	Non-surgical periodontal therapy II: Scaling & root planing (Chapter 45 & 46)	Patients	Dr. Alajlan Dr. AlHamoudi
3/3/2015 2/3/2015	Non-surgical periodontal therapy III: Sonic & ultrasonic instrumentation & irrigation	Patients	Dr. Alajlan Dr. Alshehri
10/3/2015 9/3/2015	Periodontal management of medically compromised patients (Chapter 37)	Patients	Prof. Awaratani Dr. Alghamdi
17/3/2015 16/3/2015	Reevaluation & periodontal maintenance (Chapters 33-pg 382, 52- pg 513, 54-pg 525, 78 & handout)	Patients	Dr. Alsinaidi Dr. Alzoman
<b>MidTermBreak</b>			
31/3/2015 30/3/2015	Periodontal emergencies & acute conditions (Chapters 10, 41, 42 & handout)	Patients	Dr. AlOtaibi Dr. Alshehri
7/4/2015 6/4/2015	Periodontal diseases in children (Chapter 11)	Patients	Dr. Alhazmi Prof. Anil
14/4/2015 13/4/2015	Systemic diseases & periodontitis (I) (Chapters 26 & 27)	Patients	Dr. Basudan Dr. Alhamdan
21/4/2015 20/4/2015	Systemic diseases & periodontitis (II) (Chapters 26 & 27)	Patients	Dr. Nath Dr. Alhamdan
28/4/2015 27/4/2015	Aggressive periodontitis- diagnosis & treatment (Chapter 18 & 40)	Patients	Dr. Alharbi Dr. Alghamdi
5/5/2015 4/5/2015	Gingival enlargement (Chapter 9)	Patients	Dr. Alahmari Prof. Anil
12/5/2015 11/5/2015	Course review	Clinical Exam II	Dr. Alshibani Dr. Alaskar
<b>Final Written Examination</b>			

# PCS 313

1<sup>st</sup> Semester

# 1<sup>st</sup> Week

1<sup>st</sup> September 2014  
2<sup>nd</sup> September 2014

## LECTURE NO. 1

**LECTURER: Dr. N Alshibani  
Dr. A Alaskar**

**TITLE:** Course Introduction

**AIM:** Introduce the course objectives and the intended learning outcomes (ILOs)

**ILOs:**

- Introduce the course
- Explain the course outline
- Clarify course objectives
- Explain mark distribution
- Identify the course requirements
- Determine the required text books

## CLINICAL SESSION NO. 1

**ORIENTATION:**

- Introduction to the clinical sessions, course forms and requirements



## LECTURE NO. 2

LECTURER: **Dr. N Alshibani**  
**Dr. H Alghamdi**

TITLE: Classification of Diseases and Conditions Affecting the Periodontium

AIM: To classify diseases and conditions affecting the tissues of the periodontium that was presented and discussed at the 1999 International Workshop for the Classification of the Periodontal Diseases organized by the American Academy of Periodontology (AAP).

ILOs:

- The students should be able to classify:
  - ▶▶ Gingival diseases
  - ▶▶ Periodontal diseases
  - ▶▶ Necrotizing periodontal disease
  - ▶▶ Abscesses of the periodontium
  - ▶▶ Periodontitis associated with endodontic lesions
  - ▶▶ Developmental or acquired deformities and conditions

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (4)*

## CLINICAL SESSION NO. 2

- Demonstration on the clinical forms.

# PCS 313

1<sup>st</sup> Semester

# 3<sup>rd</sup> Week

15 September 2014

16 September 2014

## LECTURE NO. 3

**LECTURER: Dr. B Alhazimi  
Dr. K Alhamdan**

**TITLE:** Periodontal Anatomy (Gingiva and Periodontal Ligament)

- AIM:**
1. To define the structural components of the gingiva and the periodontal ligament of the normal periodontium.
  2. Describe their development, vascularization, innervations and functions.

**ILOs:**

- The students should be able to:
  - ▶▶ Identify the clinical and microscopic gingival features
  - ▶▶ Correlate the clinical and microscopic features in terms of color, size, shape and contour
  - ▶▶ Describe the functions & features of the gingival epithelium
  - ▶▶ State the different stages of tooth eruption
  - ▶▶ Recognize the nature of gingival fluid
  - ▶▶ Categorize the gingival fibers
  - ▶▶ State the different groups of periodontal fibers and identify their structures and functions
  - ▶▶ Compare between gingival and periodontal fibers.

**REFERENCE:** *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (2 at [www.expertconsult.com](http://www.expertconsult.com))*

## CLINICAL SESSION NO. 3

- Demonstration on the clinical forms.

HAJJ BREAK

# PCS 313

1<sup>st</sup> Semester

# 4<sup>th</sup> Week

14 October 2014

13 October 2014

## LECTURE NO. 4

**LECTURER: Prof. F Awartani  
Dr. K Alhamdan**

**TITLE:** Periodontal Anatomy (Cementum and Alveolar Bone)

- AIM:** 1. To define the structural components of cementum and alveolar bone of the normal periodontium.  
2. Describe their development, vascularization, innervations and functions.

**ILOs:**

- The students should be able to:
  - ▶▶ Describe the permeability of cementum, cemento-enamel junction, cemento-dentinal junction and thickness of cementum
  - ▶▶ Explain cementum resorption and repair
  - ▶▶ Describe the different bone cells and intercellular matrix
  - ▶▶ Explain bone remodeling
  - ▶▶ Describe the different components of bone marrow
  - ▶▶ Interpret and differentiate between periosteum and endosteum
  - ▶▶ Define the bony defects: fenestration and dehiscence
  - ▶▶ State the development stages of the attachment apparatus

**REFERENCE:** *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (2 at [www.expertconsult.com](http://www.expertconsult.com))*

## CLINICAL SESSION NO. 4

- Demonstration on chair position/ students probing each other.

## LECTURE NO. 5

**LECTURER: Dr. S Alajlan  
Prof. Anil**

**TITLE:** Epidemiology of Periodontal Diseases

**AIM:** To analyze a disease and establish the diagnostic and therapeutic decisions based on its prevalence, incidence, and distribution in large populations or groups.

**ILOs:**

- The students should be able to:
  - ▶▶ Recognize the role of epidemiology
  - ▶▶ Describe how to measure the occurrence of conditions or diseases
  - ▶▶ Identify the challenges in obtaining epidemiologic measures of periodontal conditions and diseases
  - ▶▶ Differentiate between periodontal conditions versus periodontal diseases
  - ▶▶ Identify the diagnostic tests available to assess periodontal conditions.
  - ▶▶ Give examples of some epidemiological data on periodontal disease in Saudi Arabia.

**REFERENCE:** *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (5)*

## CLINICAL SESSION NO. 5

- Faculty Case.

28 October 2014  
27 October 2014

### LECTURE NO. 6

LECTURER: Dr. P Nath  
Prof. Anil

TITLE: Periodontal Microbiology

AIM: 1. To understand the nature, formation, accumulation & factors affecting the oral bacteria and their plaque biofilms.  
2. Understand the relationship between bacteria and the periodontal diseases.

ILOs:

- The students should be able to:
  - ▶▶ Describe bacteria biofilm
  - ▶▶ Describe the characteristics of bacteria biofilm and mode of living
  - ▶▶ Define bacterial transmission and translocation
  - ▶▶ State nonbacterial inhabitants of the oral cavity
  - ▶▶ Define the microbiologic specificity of periodontal diseases
  - ▶▶ Understand the process of transition from health to disease
  - ▶▶ Identify the virulence factors of periodontopathogens

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (23)*

### CLINICAL SESSION NO. 6

- Faculty Case.



# PCS 313

1<sup>st</sup> Semester

# 7<sup>th</sup> Week

4 November 2014  
3 November 2014

## LECTURE NO. 7

LECTURER: Dr. N Alomar  
Dr. H Alghamdi

TITLE: Periodontal Case Presentation

AIM: To demonstrate a comprehensive periodontal case with diagnosis, prognosis and treatment plan with alternatives.

ILOs:

- The students should be able to:
  1. Relate clinical data to diagnosis and prognosis
  2. Select the appropriate mode of treatment
  3. Comprehend the outcome of periodontal treatment

REFERENCE: *Additional Reading*

## CLINICAL SESSION NO. 7

- Periodontal Case Presentation



## LECTURE NO. 8

LECTURER: Dr. F Alahmari  
Dr. M Alaskar

TITLE: Periodontal Pathogenesis

AIM: 1. To understand the origin and the development of the periodontal disease.  
2. Understand the periodontal tissues reaction to the disease.

ILOs:

- The students should be able to:
  - ▶▶ Identify the histology of diseased gingival and periodontal tissues
  - ▶▶ Recognize the role of inflammatory responses in the periodontium
  - ▶▶ Identify the inflammatory mediators during bone resorption
  - ▶▶ Interpret the concept of host susceptibility
  - ▶▶ Recognize the immune responses in periodontal pathogenesis (innate immunity and adaptive immunity)
  - ▶▶ Demonstrate the clinical features of diseased periodontium

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (21)*

## CLINICAL SESSION NO. 8

- Student Case

1<sup>st</sup> Semester

18 November 2014  
17 November 2014

## LECTURE NO. 9

LECTURER: Dr. M Shaheen  
Dr. M Alaskar

TITLE: Host Response: Basic Concepts

AIM: To introduce an overview of the molecular biology of the host-parasite relationship from a cellular signaling perspective point of view.

ILOs:

- The students should be able to:
  - ▶▶ Define innate immunity in periodontal diseases
  - ▶▶ Define adaptive immunity in periodontal diseases
  - ▶▶ Dmicrobe interactions-host the escribe
  - ▶▶ Comprehend the most common cytokines and mediators of inflammation
  - ▶▶ Understand the function of cytokines and mediators of inflammation in regard to periodontal inflammation.

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (25)*

## CLINICAL SESSION NO. 9

- Student Case

## LECTURE NO. 10

LECTURER: Dr. P. Nath  
Prof Anil

TITLE: Role of Dental Calculus and Other Local Predisposing Factors

AIM: To recognize all the aspects related to dental calculus and its relationship to periodontal inflammation as well as other predisposing factors.

ILOs:

- The students should be able to:
  - ▶▶ Identify sub- and supra- gingival calculus
  - ▶▶ Describe calculus composition, attachment, formation and its significant to periodontal tissues
  - ▶▶ Define materia alba
  - ▶▶ Revise other predisposing factors that contribute to periodontal health e.g. smoking, malocclusion, radiation and orthodontic treatment

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (22)*

## CLINICAL SESSION NO. 10

- Student Case

## LECTURE NO. 11

LECTURER: **Dr. B Alhizimi**  
**Dr. M Alqutub**

TITLE: Periodontal Pocket and Patterns of Bone Destruction

AIM: To describe the mechanism of periodontal tissue destruction and periodontal pocket formation.

ILOs:

- The students should be able to:
  - ▶▶ Classify the periodontal pockets
  - ▶▶ Identify the clinical features of periodontal pockets
  - ▶▶ Describe mechanisms of gingival and periodontal tissue destruction
  - ▶▶ List the contents of periodontal pocket
  - ▶▶ Outline surface morphology of tooth wall
  - ▶▶ Identify the pulp changes associated with periodontal pockets
  - ▶▶ Describe the relationship of attachment loss and bone loss to pocket depth
  - ▶▶ Describe the bone destruction caused by extension of gingival inflammation
  - ▶▶ List the factors determining bone morphology in periodontal disease
  - ▶▶ Identify the different types of bone destruction patterns

REFERENCE: ***CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (13 and 14)***

## CLINICAL SESSION NO. 11

- Student Case

# PCS 313

1<sup>st</sup> Semester

# 12<sup>th</sup> Week

9 December 2014  
8 December 2014

## LECTURE NO. 12

LECTURER: Dr. A Alsinidi  
Dr. M Alqutub

TITLE: Clinical Features of Gingivitis and Chronic Periodontitis

AIM: To diagnose and identify the clinical features of gingivitis and chronic periodontitis.

ILOs:

- The students should be able to:
  - Describe the changes in gingival contour during inflammation
  - **State gingivitis course and duration**
  - **descriptions** list the gingivitis different
  - Describe the clinical features of chronic periodontitis and its prevalence
  - Identify the local, systemic, environmental, behavioral and genetic factors related to chronic periodontitis

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (8 and 16)*

## CLINICAL SESSION NO. 12

- Student Case

## LECTURE NO. 13

LECTURER: Dr. N Alomar  
Dr. F Alshehri

TITLE: Clinical Diagnosis

AIM: To assemble all the tools from the patients to establish proper clinical diagnosis and judgment.

ILOs:

- The students should be able to:
  1. Collect the medical history & dental history from the patient properly
  2. Record intraoral radiographic survey
  3. Use the casts
  4. Collect clinical photographs
  5. Master oral examinations both extra- and intra-oral examination
  6. Practice the examination of the teeth and implants
  7. Practice examination of the periodontium
  8. Assess the laboratory aids
  9. .proper clinical diagnosis Establish

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (8 pg. 82-83 & 30)*

## CLINICAL SESSION NO. 13

- Student Case

# PCS 313

1<sup>st</sup> Semester

# 14<sup>th</sup> Week

23 December 2014  
22 December 2014

## LECTURE NO. 14

LECTURER: Dr. N Alshibani  
Dr. M Alaskar

TITLE: Course Review

Revision for the lecture content in addition to answering students inquires regarding the content

## CLINICAL SESSION NO. 14

- Student Case

PCS 313

1<sup>st</sup> Semester

15<sup>th</sup> Week

30 December 2014

MID-TERM WRITTEN  
&  
1<sup>st</sup> CLINICAL  
EXAMINATIONS



## LECTURE NO. 16

LECTURER: Dr. M Shaheen  
Dr. H Alghamdi

TITLE: Radiographic Aids in the Diagnosis of Periodontal Disease

AIM: To develop appropriate radiographic diagnosis of periodontal diseases

ILOs:

- The students should be able to:
  - ▶▶ Demonstrate the normal radiographic appearance of the interdental bone
  - ▶▶ Demonstrate the proper radiographic techniques that depict the periodontal bone status
  - ▶▶ Assess changes in the interdental bone in periodontal disease
  - ▶▶ Illustrate the radiographic features of different periodontal defects.
  - ▶▶ Differentiate the radiographic appearance of local or systemic diseases of the facial bones that can mimic periodontitis.
  - ▶▶ Use their knowledge and understanding of the dental radiographs to identify periodontal diseases (cognitive skill)
  - ▶▶ Think and practice radiographic interpretation of periodontitis cases (psychomotor skill).

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (31)*

## CLINICAL SESSION NO. 16

- Regular Patients

## LECTURE NO. 17

LECTURER: Dr. D Alotaibi  
Dr. M Alqutub

TITLE: Prognosis and Rationale for Periodontal Treatment

AIM: 1. To determine the prognosis of teeth with periodontal destruction.  
2. To describe the possible healing outcomes following periodontal therapy

ILOs:

- The students should be able to:
  - ▶▶ Define the prognosis
  - ▶▶ Identify factors that determine the prognosis
  - ▶▶ Discusses the potential prognoses of the various periodontal diseases
  - ▶▶ Predict the overall as well as specific prognosis of case scenario (cognitive skill)
  - ▶▶ Estimate the effectiveness of periodontal therapy
  - ▶▶ Describe the possible outcomes of periodontal therapy

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (33 and 35)*

## CLINICAL SESSION NO. 17

- Regular Patients

2<sup>nd</sup> Semester

9 February 2015  
10 February 2015

## LECTURE NO. 18

LECTURER: **Dr. B Alhazimi**  
**Dr. M Alaskar**

TITLE: Periodontal Treatment Plan

AIM: To formulate and explain an appropriate treatment plan for patients with periodontal diseases.

ILOs:

- The students should be able to:
  - ▶▶ Recognize the short-and long-term goals of the periodontal treatment
  - ▶▶ Formulate an appropriate treatment plan considering all its phases in response to the requirements of the case
  - ▶▶ Demonstrate effective personal communication and patient motivation in treatment planning

REFERENCE: ***CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (34)***

## CLINICAL SESSION NO. 18

- Regular Patients

## LECTURE NO. 19

LECTURER: **Dr. N Alshibani**  
**Dr. M Alaskar**

TITLE: Non-Surgical Periodontal Therapy I: Mechanical and Chemical Plaque Control

- AIM:
1. To introduce the oral hygiene products
  2. To describe the methods and technique for oral home care

ILOs:

- The students should be able to:
  - ▶▶ Identify the products and methods that can be utilized by the patients for effective plaque control
  - ▶▶ Select and describe the appropriate oral hygiene measures for patients with periodontal diseases.

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (44)*

## CLINICAL SESSION NO. 19

- Regular Patients

## LECTURE NO. 20

LECTURER: Dr. S Alajlan  
Dr. F Alshehri

TITLE: Non-Surgical Periodontal Therapy II: Scaling and Root Planing

- AIM:
1. To illustrate the periodontal instruments (hand) Including their features and areas of use
  2. To explain the principles of scaling and root planning
  3. To illuminate sharpening of the periodontal scalers and curettes.

ILOs:

- The students should be able to:
  - ▶▶ Distinguish the periodontal instruments.
  - ▶▶ Demonstrate sound knowledge of principles of scaling, root planning and instruments sharpening.
  - ▶▶ Apply the concept of scaling and root planing clinically

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (45 and 46)*

## CLINICAL SESSION NO. 20

- Regular Patients

## LECTURE NO. 21

LECTURER: **Dr. S Alajlan**  
**Dr. F Alshehri**

TITLE: Non-Surgical Periodontal Therapy III: Sonic and Ultrasonic Instrumentation and Irrigation

AIM: 1. To illustrate the periodontal instruments (power-driven) including their features and areas of use.

ILOs:

- The students should be able to:
  - ▶▶ Know the latest developments in the scaling and irrigating tools
  - ▶▶ Distinguish between sonic and ultrasonic instruments
  - ▶▶ Judge when to use hand instrument or power-driven
  - ▶▶ Apply sonic instrument clinically

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (47 pg 482)*

## CLINICAL SESSION NO. 21

- Regular Patients

## LECTURE NO. 22

**LECTURER: Prof. F Awaratani  
Dr. H Alghamdi**

**TITLE:** Periodontal Management of Medically Compromised Patients

**AIM:** To explain the appropriate periodontal management of medically compromised patients

**ILOs:**

- The students should be able to:
  - ▶▶ Recognize the appropriate periodontal management of patients with certain systemic diseases

**REFERENCE:** *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (37)*

## CLINICAL SESSION NO. 22

- Regular Patients

## LECTURE NO. 23

LECTURER: **Dr. A Alsinidi**  
**Dr. H Alzoman**

TITLE: **Reevaluation and Periodontal Maintenance**

AIM:           1. To define the reevaluation and maintenance phases of periodontal therapy and discuss their importance for appropriate management of periodontal diseases.  
                  2. To explain the steps of reevaluation and maintenance therapy.

ILOs:

- The students should be able to:
  - ▶▶ Identify the importance and valuable outcomes of reevaluation and maintenance phases of periodontal treatment plan
  - ▶▶ Practice reevaluation of phase I therapy for their periodontitis patients.

REFERENCE: ***CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (33 pg 382, 52 pg 513, 54 pg 525, 78 and handout)***

## CLINICAL SESSION NO. 23

- Regular Patients



Mid-term Break

# PCS 313

2<sup>nd</sup> Semester

# 25<sup>th</sup> Week

30 March 2015  
31 March 2015

## LECTURE NO. 25

LECTURER: Dr. D Alotaibi  
Dr. F Alshehri

TITLE: Periodontal Emergencies and Acute Conditions

AIM: To discuss the most common forms of acute periodontal conditions that imply emergency management.

ILOs:

- The students should be able to:
  - ▶▶ Identify the etiology of acute gingival and periodontal diseases.
  - ▶▶ Distinguish the clinical features of periodontal emergencies and acute conditions.
  - ▶▶ Predict the diagnosis and differential diagnosis of acute gingival and periodontal diseases.
  - ▶▶ Plan appropriate treatment and management strategies for the acute periodontal conditions.

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (10, 41, 42 and handout)*

## CLINICAL SESSION NO. 25

- Regular Patients

# PCS 313

2<sup>nd</sup> Semester

# 26<sup>th</sup> Week

6 April 2015

7 April 2015

## LECTURE NO. 26

LECTURER: **Dr. B Alhazmi**  
**Prof Anil**

TITLE: Periodontal Diseases in Children

AIM: To clinically describe the oral mucosa and periodontium of childhood in health and disease

ILOs:

- The students should be able to:
  - ▶▶ Recognize the clinical features of periodontium of primary dentition
  - ▶▶ Identify periodontal changes associated with normal development
  - ▶▶ Distinguish the clinical characteristics of the children's oral mucosa
  - ▶▶ Describe different forms of gingival and periodontal diseases of childhood

REFERENCE: ***CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (11)***

## CLINICAL SESSION NO. 26

- Regular Patients

# PCS 313

2<sup>nd</sup> Semester

# 27<sup>th</sup> Week

13 April 2014

14 April 2014

## LECTURE NO. 27

LECTURER: **Dr. A Basudan**  
**Dr. K Alhamdan**

TITLE: Systemic Diseases and Periodontitis I

AIM: To explain the influences of the most common systemic diseases and conditions on the periodontium in patients with periodontitis.

ILOs:

- The students should be able to:
  - ▶▶ Identify the effects of smoking on the prevalence, severity, and pathogenesis
  - ▶▶ Identify the effect of smoking on response to periodontal therapy (non surgical, surgical and maintenance therapy)
  - ▶▶ Recognize the relationship between endocrine disorders & periodontal disease.
  - ▶▶ Assess the relationship between oral & periodontal tissue and hematological disorders.

REFERENCE: ***CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (26 and 27)***

## CLINICAL SESSION NO. 27

- Regular Patients

# PCS 313

2<sup>nd</sup> Semester

# 28<sup>th</sup> Week

20 April 2015  
21 April 2015

## LECTURE NO. 28

LECTURER: **Dr. P Nath**  
**Dr. K Alhamdan**

TITLE: Systemic Diseases and Periodontitis II

AIM: To explain the influences of the most common systemic diseases and conditions on the periodontium in patients with periodontitis.

ILOs:

- The students should be able to:
  - ▶▶ Recognize the effects of nutrition and medications on oral & periodontal tissue.
  - ▶▶ Identify the relationship between deficiencies in the host defense mechanism & destructive periodontal lesions.
  - ▶▶ Identify the possible relationship between genetic disorders and severity of periodontitis.
  - ▶▶ Assess the possible correlation between psychosomatic disorders and the occurrence of periodontal disease.

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (26 and 27)*

## CLINICAL SESSION NO. 28

- Regular Patients

# PCS 313

2<sup>nd</sup> Semester

# 29<sup>th</sup> Week

27 April 2015

28 April 2015

## LECTURE NO. 29

LECTURER: Dr. H Alharbi  
Dr. H Alghamdi

TITLE: Aggressive Periodontitis- Diagnosis and Treatment

AIM:

1. To define the aggressive form of periodontitis and explain its prevalence and distribution, associated risk factors as well as the clinical and radiographic features.
2. To describe the recommended treatment planning and maintenance programs for aggressive periodontitis.

ILOs:

- The students should be able to:
  - Recognize the localized and generalized forms of aggressive periodontitis
  - Describe the clinical and radiographic features of aggressive periodontitis
  - Identify the possible risk factors for aggressive periodontitis
  - Write an appropriate treatment planning and maintenance programs for aggressive periodontitis.

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (18 and 40)*

## CLINICAL SESSION NO. 29

- Regular Patients

# PCS 313

2<sup>nd</sup> Semester

# 30<sup>th</sup> Week

4 May 2015

5 May 2015

## LECTURE NO. 30

LECTURER: Dr. F Alahmari  
Prof Anil

TITLE: Gingival Enlargement

AIM: To describe the different forms of gingival enlargement and illustrate their etiology and clinical characteristics

ILOs:

- The students should be able to:
  - ▶▶ Identify the different forms of gingival enlargement
  - ▶▶ Recognize the etiological factors of gingival enlargement
  - ▶▶ Describe the clinical features of different forms of gingival enlargement.

REFERENCE: *CARRANZA's Clinical Periodontology 11<sup>th</sup> Edition Chapter (9)*

## CLINICAL SESSION NO. 30

- Regular Patients

# PCS 313

2<sup>nd</sup> Semester

# 31<sup>st</sup> Week

11 May 2015  
12 May 2015

## LECTURE NO. 31

LECTURER: Dr. N ALshibani  
Dr. M Alaskar

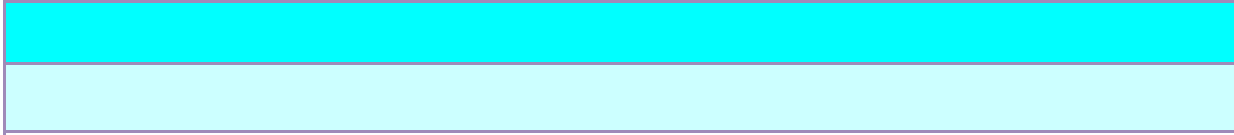
TITLE: Course Review

Revision for the lecture content in addition to answering students inquires regarding the content

## CLINICAL SESSION NO. 31

- Clinical Examination II





# FINAL WRITTEN EXAMINATION

