King Saud University
College of Dentistry
Department of Prosthetic Dental Sciences

SDS 321
Clinical Removable Prosthodontics I

DR. ABDULAZIZ ALBAKER
Course Director - M

PROF. ELHAMY ABED
Course Co-Director - M

ACADEMIC YEAR
1431/1432H (2010/2011G)
COURSE TITLE: Clinical Removable Prosthodontics I

COURSE CODE: SDS 321

CREDIT HOURS: 6 (2L+2C+2P)

PREREQUISITES: SDS 211

COURSE DESCRIPTION:

This course is the first course in Clinical Removable Prosthodontics. It consists of didactic, clinical, and laboratory components. The course is limited to the teaching of conventional complete and Removable Partial Dentures.

The didactic component is delivered in 30 lectures. It covers the theoretical background for different phases of treatment with Removable Partial and Complete Dentures. Syllabus includes diagnosis, treatment planning, treatment procedures, and follow-up of the treatment. Lectures focus on the basic concepts, principles, indications, and limitations of these clinical procedures.

The clinical component comprises of 30 sessions held for one academic year (once a week), utilized to practice common clinical procedures for patients examination, motivation, and treatment with complete and removable partial dentures.

During laboratory sessions (held once a week), students are instructed to do all the laboratory work required for RPD and CD fabrication for their clinical cases, with the exception of "framework fabrication", and “processing of acrylic dentures”. These steps will be done by the central laboratory personnel.

COURSE OBJECTIVES:

To familiarize the student with clinical management of edentulous and partially edentulous patients, through teaching basic clinical procedures and their integration with the procedures taught in the pre-clinical course SDS 211.

At the completion of the course, the student should be competent in the basic scientific knowledge pertaining to the treatment of edentulous and partially edentulous patients; skilled in all laboratory procedures used in the construction of conventional complete and removable partial dentures; and proficient in the clinical management of uncomplicated cases requiring complete and removable partial dentures.
**COURSE TOPICS:**

**1st Semester**

1. Introduction to the course, clinical & laboratory protocol & forms
2. Diagnosis & treatment planning for dentulous and edentulous patients – Part 1
3. Diagnosis & treatment planning for dentulous and edentulous patients – Part 2
4. Tooth loss
5. Mouth preparation for RPD
6. Surgical and non-surgical preparation of the mouth for complete denture service
7. Impression procedure for partially edentulous patients
8. Principles and objectives of impression making for complete dentures
9. Recording maxillomandibular relations (complete dentures)
10. Jaw relation records and techniques for RPD
11. Selection of anterior artificial teeth various methods and related anatomic factors (complete dentures)
12. Selection of posterior artificial teeth various methods and related anatomic factors (complete dentures)
13. Selection and arrangement of teeth for RPD – the denture base
14. Retention and stability of complete dentures
15. Philosophy of occlusion, occlusal concepts and occlusal schemes for complete dentures

**2nd Semester**

16. Arrangement of teeth for abnormal jaw relationship
17. Principles of partial denture design
18. Stress consideration in distal extension partial dentures
19. Try-in of complete dentures
20. Various techniques for posterior palatal seal
21. The metal framework try-in and dual impression technique
22. Try-in of waxed partial denture
23. Denture placements and clinical remount procedures
24. Post insertion problems and management of complete dentures
25. RPD denture placement, counseling, complaints and adjustment
26. Provisional removable partial dentures
27. Immediate complete dentures – Part 1
28. Immediate complete dentures – Part 2

INSTRUCTIONAL METHODS:

- Didactic Lectures
- Clinical Demonstration and Practice Sessions
- Laboratory and Hands-on Practical Sessions

LABORATORY EXERCISE:

- Students are required to carry out all laboratory procedures for the complete and removable partial denture construction following their clinical sessions every week, except RPD framework casting and processing of removable dentures.

- Students will be provided with a model of Class III set up, in addition to a lecture. They will then perform the arrangement of teeth for complete dentures in Class III jaw relation on their own. The instructors may only guide the students during the set up.

- Students will practice the designing of the RPD on their own and submit the work to their instructors for assessment.

EVALUATION AND ASSESSMENT:

<table>
<thead>
<tr>
<th>Continuous Assessment</th>
<th>70%</th>
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<tbody>
<tr>
<td>1. Theoretical knowledge</td>
<td>30%</td>
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<tr>
<td>• Mid-year exam</td>
<td>(20%)</td>
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<td>• Quizzes</td>
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<td>2. Laboratory &amp; Practical Assessment</td>
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<td>• Master casts for partial denture cases to be surveyed, scored, and lab authorization forms prepared including the drawing of the design</td>
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<td>• Set-up for complete dentures in class III occlusion</td>
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<td>3. Quality of clinical and laboratory procedures</td>
<td>20%</td>
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<tr>
<td>• 1st semester</td>
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<td>• 2nd semester</td>
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<th>Final Exams:</th>
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<td>• Final Written Exam</td>
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Total Grade 100%
Every student will fabricate a 2nd set of record blocks for his complete denture patient and obtain the jaw relation records after the completion of wax try-in stage without supervision. The timing of this final exam will coincide with the timing of the student treating the complete denture patient (i.e. either during the 1st semester or 2nd semester).

**MINIMUM CLINICAL REQUIREMENT:**

Students who fail to fulfill the minimum requirements will be graded as INCOMPLETE. The requirements of this course are to fabricate prostheses for:

1. Two partially edentulous arches. Single short edentulous spaces are not accepted.
2. Two completely edentulous arches.

However, in order to pass the clinical exam a total of minimum 2 arches are required to obtain the passing grade of the clinical requirements.

**COURSE PROTOCOL:**

1. A minimum of 75% attendance is compulsory in lectures as well as in practical sessions.
2. Students are expected to complete each exercise by the assigned date. Late submission of laboratory projects will receive less mark.
3. At the end of each lab session, the students should submit the completed lab procedure of their clinical cases to his instructor for grading.
4. To obtain a passing grade in this course, the student must pass both practical and didactic separately.
5. Final written and practical examinations will be held at the end of the year.

**REQUIRED TEXTBOOKS:**

EVALUATION FORMS:

Two forms are to be used by the Course Director to register the grades, sign the marks and write the remarks for each student on a daily basis for both the clinical and laboratory parts.

CPC   Clinical Performance Card
The student’s evaluation form in the Clinical part.

LPC   Laboratory Performance Card
The student’s evaluation form in the laboratory part.

Each form will represent the assessments and grand total marks for each part of the course.

A copy of each evaluation form is attached to this course outline for the student’s information and guidance.

**Computer print of DPC and LPC will be submitted to each student during this academic semester:**

- After each assessment for didactic part
- After each practical assessment for laboratory part

EVALUATION FORMS ABBREVIATION:

CS    clinical session

LB    Laboratory session

LT    Late attendance on the lecture or laboratory sessions beyond 5 minutes after the due time.

AB    Absent (no show)

Q     Quiz

NT    Neatness in the arrangement of the instruments, equipments and materials needed for certain practical procedure and maintaining a good, neat and clean appearance of the personal outlook as well as the working area.

QW    Quality of the work submitted to the Course Director for grading. It must represent the standard measurements, dimensions and appearance of the 3 dimensional practical project required in each exercise.

PB    Personal behavior of the student which includes:
- Communication and cooperation with faculty, staff and other
students

- promptness in departing "on time" at the end of each session
- proper wearing of uniform and laboratory apron
- Careful handling of materials, equipments, electrical and non-electrical devices.
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**TOTAL:**

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First Clinical Assessment

Second Clinical Assessment

**GRAND TOTAL**

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**GRAND TOTAL**

1st laboratory Assessment

2nd laboratory Assessment

Approved Course Director: AcademicYear2010 Semester_1__
# Lecture No. 1

**Lecturer:** Dr. A. Al Baker

**Title:** Introduction to the course

**Topics:**
- Introduction to the Course
- Clinical and laboratory protocol & forms

## Clinical Session No. 1 for CD Group

**Demo & Practice:** Examination of completely edentulous patient

## Laboratory Session No. 1 for CD Group

**Demo & Exercise:** Construction of record blocks for lab exam

## Clinical Session No. 1 for RPD Group

**Demo & Practice:** Examination of partially edentulous patients, making primary impressions in alginate

## Laboratory Session No. 1 for RPD Group

**Demo & Exercise:** Construction of sectional record blocks
# Lecture No. 2

**Lecturer:** Prof. Elhamy Abed  
**Title:** Diagnosis for treatment planning for dentulous and edentulous patient – Part 1

**Topics:**
- Health questionnaire for dentulous and edentulous subjects  
- Psychological consideration  
- Past dental history for dentulous & edentulous subjects  
- Extraoral examination for edentulous patient  
- Intraoral examination for edentulous patient

**References:**
- Boucher’s *Prosthodontic treatment for edentulous patients*, pp. 57 - 87

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**Clinical Session No. 2 for CD Group**

**Demo & Practice:** Primary impressions: tray selection, impression making

**Laboratory Session No. 2 for CD Group**

**Demo & Practice:** Construction of custom trays

**Clinical Session No. 2 for RPD Group**

**Demo & Practice:** Face-bow and CR for diagnostic cases, mounting diagnostic casts (split casts) and writing treatment plan

**Laboratory Session No. 2 for RPD Group**

**Demo & Practice:** Surveying and preparation of abutment preparation list
## LECTURE NO. 3

**Lecturer:** Prof. Elhamy Abed

**TITLE:** Diagnosis for treatment planning for dentulous and edentulous patient – Part 2

**TOPICS:**
- Intraoral examination for dentulous patient
- Radiological examination (root morphology, crown root ratio, bone height & quality, reaction of bone to stress)
- Study cast (requirements and uses, cast analysis articulator plane, interridge space, interocclusal space, occlusal interferences)

**REFERENCES:**

## CLINICAL SESSION NO. 3 for CD Group

**DEMO & PRACTICE:** Upper final impressions:
- Checking custom trays
- Border molding
- Impression making

## LABORATORY SESSION NO. 3 for CD Group

**DEMO & EXERCISE:** Construction of upper record block

## CLINICAL SESSION NO. 3 for RPD Group

**DEMO & EXERCISE:** Abutment preparation, check impression

## LABORATORY SESSION NO. 3 for RPD Group

**DEMO & EXERCISE:** Construction of custom tray, filling lab authorization form (upper arch)
LECTURE NO. 4  
Lecturer: Dr. Abdulaziz Albaker

TITLE: Tooth Loss

TOPICS:
- Relationship between tooth loss and oral health status
- Etiology
- Epidemiology
- Sequences and patterns of tooth loss: partial edentulism, edentulism
- Management: various prosthodontic solutions

REFERENCES:

CLINICAL SESSION NO. 4 for CD Group

DEMO & PRACTICE: Lower final impressions:
- Checking custom trays
- Border molding
- Impression making

LABORATORY SESSION NO. 4 for CD Group

DEMO & EXERCISE: Construction of lower record block

CLINICAL SESSION NO. 4 for RPD Group

DEMO & PRACTICE: Final impression of upper arch

LABORATORY SESSION NO. 4 for RPD Group

DEMO & PRACTICE: Construction of custom tray, filling lab authorization form (lower arch)
# LECTURE NO. 5

**Lecturer:** Prof. Faisal Fahmi

**TITLE:** Mouth preparation for RPD

**TOPICS:**
- Surgical procedures such as extractions, alveoplasty of hyperplastic tissue, etc.
- Periodontal therapy
- Occlusal adjustment
- Endodontic procedures
- Treatment of abused tissue
- Overall review

**REFERENCES:**


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# CLINICAL SESSION NO. 5 for CD Group

**DEMONSTRATION:** Recording centric jaw relation:
- Checking upper record base intra-orally
- Orientation of upper occlusal plane
- Checking lower record base intra-orally
- Recording of occlusal vertical dimension
- Checking tongue space

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# LABORATORY SESSION NO. 5 for CD Group

**DEMO & EXERCISE:** Mounting the casts of lab exam

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# CLINICAL SESSION NO. 5 for RPD Group

**DEMO & PRACTICE:** Final impression of lower arch

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# LABORATORY SESSION NO. 5 for RPD Group

**DEMO & EXERCISE:** Preparation of custom trays for exam
LECTURE NO. 6

Lecturer: Prof. Faisal Fahmi

TITLE: Surgical and non-surgical preparation for complete denture service

TOPICS:

A. Surgical Procedures:
- Soft tissue procedure: Epulis, denture fissuratum, pressure on mental foramen
- Removal of hyperplastic tissues
- Frenal attachments
- Surgical procedures for hard tissues: Bony prominences, tori, bony spicules, spiny ridge
- Enlargement of denture bearing area: Vestibuloplasty, ridge augmentation
- Correction of jaw relations
- Prescribing dental implants

B. Non Surgical Procedures:
- Nutrition
- Conditioning the mucosa by providing rest and using tissue conditioners

REFERENCES:
- Textbook of Complete Dentures by Rahn & Heartwell. 5th ed., pp. 171-193
- McCracken’s Removable Partial Prosthodontics, 11th ed., pp. 405-420

CLINICAL SESSION NO. 6 for CD Group

CONTINUE: Recording centric jaw relation:
- Checking lower occlusal plane
- Recording centric jaw relation
- Face-bow record
- Selection of teeth

LABORATORY SESSION NO. 6 for CD Group

DEMO & EXERCISE: Setting upper and lower anterior teeth

CLINICAL SESSION NO. 6 for RPD Group

CLINICAL EXAM: Final impressions, pouring final impressions

LABORATORY SESSION NO. 6 for RPD Group

DEMO & EXERCISE: Tutorial by coordinators for different designs
<table>
<thead>
<tr>
<th>Lecture No. 7</th>
<th>Lecturer: Dr. Abdulaziz Albaker</th>
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<tbody>
<tr>
<td>Title:</td>
<td>Impression procedure for partially edentulous patients</td>
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<tr>
<td>Topics:</td>
<td>Techniques of impression making</td>
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<td>• Method of forming a cast – trimming the cast</td>
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<tr>
<td>Demo &amp; Practice: Trial of waxed complete denture -</td>
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<td>• Checking anterior teeth</td>
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<td>• Verification of CR</td>
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<td>• Making protrusive record</td>
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<td>Demo &amp; Exercise: Setting upper and lower anterior teeth</td>
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<td>Clinical Exam: Fitting metal framework</td>
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<th>Laboratory Session No. 7 for RPD Group</th>
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<tr>
<td>Demonstration: Construction of sectional lower custom tray</td>
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# LECTURE NO. 8

Lecturer: Dr. Sulieman Aljohany

## TITLE:
Principles & objectives of impression making for complete dentures

## TOPICS:
- Impression objectives: preservation, support, stability, retention, esthetic
- Preliminary impressions: equipment, seating the patient, impression of the mandibular and maxillary arch
- The final impression materials and techniques: classification of impression techniques (mucostatic, functional impression, selective pressure technique)
- Final impression – step by step clinical procedures (Border molding): final impression of maxillary and mandibular arch, management of a severe gagger
- Final impression materials, its advantages and disadvantages: ZOE impression, elastomeric impression, impression plaster

## REFERENCES:
- Boucher’s Prosthodontic Treatment for Edentulous Patients, 11th ed., Chap. 9 & 10, pp. 141-161, 162-181
LECTURE NO. 9
Lecturer: Dr. Sulieman Aljohany

TITLE: Recording maxillomandibular relations (complete dentures)

TOPICS:
- Orientation of occlusal plane
- Vertical jaw relation record
  - Recording physiologic rest position
  - Recording vertical dimension of occlusion
  - Evaluating vertical dimension of occlusion
  - Pre-extraction records
- Centric jaw relation record
  - Methods of recording CR
  - Interocclusal check record method

REFERENCES:
- Boucher’s Prosthodontic Treatment for Edentulous Patients, 11th ed., Chap. 12 & 13, pp. 197-230

CLINICAL SESSION NO. 8 for CD Group
DEMO & PRACTICE: Trial of posterior teeth, scoring the posterior palatal seal area
CLINICAL EXAM: Final Impression

LABORATORY SESSION NO. 8 for CD Group
DEMO & EXERCISE: Wax-up of complete denture

CLINICAL SESSION NO. 8 for RPD Group
CLINICAL EXAM: Sectional corrective impression

LABORATORY SESSION NO. 8 for RPD Group
DEMO & EXERCISE: Construction of occlusion rims
LECTURE NO. 10
Lecturer: Dr. Abdulaziz Albaker

TITLE: Jaw relation records and techniques for RPD

TOPICS:
- Methods of establishing the occlusion
- Vertical dimension of occlusion
- Altering the vertical dimension of occlusion
- Establishing the horizontal relation for the partial denture that opposes edentulous arch
- Face-bow records

REFERENCES:
- McCracken’s Removable Partial Prosthodontics, 11th ed., Chap. 17, pp. 301 - 318

CLINICAL SESSION NO. 9 for CD Group
DEMO & PRACTICE: Laboratory remounts

LABORATORY SESSION NO. 9 for CD Group
DEMO & EXERCISE: Preparing mounted jaw relation for lab exam

CLINICAL SESSION NO. 9 for RPD Group
DEMONSTRATION: Jaw relation, selection of shade

LABORATORY SESSION NO. 9 for RPD Group
DEMO & EXERCISE: Setting artificial teeth
LECTURE NO. 11

Title: Selection of anterior artificial teeth various methods and related anatomic factors (complete dentures)

Topics:

- Anatomic factors for anterior tooth selection and posterior teeth:
  - Size of the face
  - Size of the maxillary arch
  - Incisive papilla and cuspid eminence
  - Maxillomandibular relations (Class I, Class II and Class III)
  - Contour of residual ridges
  - Interridge space
  - The lip

- Factors related to anterior teeth:
  - Size
  - Form
  - Shade

References:
- Boucher’s Prosthodontic Treatment for Edentulous Patients, 11th ed., Chap. 14, pp. 231-236

Clinical Session No. 10 for CD Group

Demo & Exercise: Denture insertion, clinical remount

Laboratory Session No. 10 for CD Group

Demo & Exercise: Selective grinding

Clinical Session No. 10 for RPD Group

Demo & Exercise: Trial of waxed dentures

Laboratory Session No. 10 for RPD Group

Demo & Exercise: Wax-up of RPD
LECTURE NO. 12  
Lecturer: Dr. Zeyad Alsowygh

**TITLE:** Selection of posterior artificial teeth various methods and related anatomic factors (complete dentures)

**TOPICS:**
- **Posterior teeth:**
  - Form of posterior teeth
  - Size and shade
  - Material composition

**REFERENCES:**
- Boucher’s Prosthodontic Treatment for Edentulous Patients, 11th ed., Chap. 14, pp. 236-261

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**CLINICAL SESSION NO. 11 for CD Group**

**DEMO & PRACTICE:** Denture insertion

**LABORATORY SESSION NO. 11 for CD Group**

**DEMO & EXERCISE:** Arrangement of teeth for Class III relation

**CLINICAL SESSION NO. 11 for RPD Group**

**DEMO & PRACTICE:** Insertion of dentures

**LABORATORY SESSION NO. 11 for RPD Group**

**DEMO & PRACTICE:** Tutorial by coordinators of different designs
LECTURE NO. 13
Lecturer: Dr. Abdulaziz Albaker

TITLE: Selection and arrangement of teeth for RPD & the denture base

TOPICS:
- Types of posterior teeth
- Selection of teeth for Class IV partial denture
- Selection of posterior teeth
- Rules for arranging posterior teeth
- Method of attaching artificial teeth

REFERENCES:
- Boucher’s Prosthodontic Treatment for Edentulous Patients, 11th ed., Chap. 14, pp. 231-261

CLINICAL SESSION NO. 12 for CD Group
DEMO & PRACTICE: First inspection

LABORATORY SESSION NO. 12 for CD Group
DEMO & EXERCISE: Arrangement of teeth for Class III relation

CLINICAL SESSION NO. 12 for RPD Group
DEMONSTRATION: First inspection
PRACTICE: First inspection

LABORATORY SESSION NO. 12 for RPD Group
LAB EXAM: Cast surveying and designing
LECTURE NO. 14  
Lecturer: Dr. Ibrahim Alshiddi

TITLE: Arrangement of teeth for abnormal jaw relationship

TOPICS:

- Physical factors of saliva:
  - Atmospheric pressure
  - Oral and facial musculature
  - Health of basal seat tissue
  - Primary stress bearing and retentive areas

REFERENCES:

- Boucher’s Prosthodontic Treatment for Edentulous Patients, 11th ed., Chap. 14, pp. 231-262
- McCracken’s Removable Partial Prosthodontics, 11th ed., Chap. 17, pp. 301-318

CLINICAL SESSION NO. 13 for CD Group

DEMO & PRACTICE: Second inspection

LABORATORY SESSION NO. 13 for CD Group

LAB EXAMINATION: Setting teeth for Class II jaw relation

CLINICAL SESSION NO. 13 for RPD Group

DEMO & PRACTICE: Second inspection

LABORATORY SESSION NO. 13 for RPD Group

DEMO & PRACTICE: Examination and primary impression with completely edentulous patient
LECTURE NO. 15  
Lecturer: Prof. Elhamy

TITLE: Philosophy of occlusion, occlusal concepts and occlusal schemes for complete dentures

TOPICS:
- Theories of occlusion: Bonwill’s theory and Spherical theory
- Philosophy of occlusion
- Concept of occlusion: Definition
  - Balanced occlusion and Non-balanced occlusion
  - Advantages
- Occlusal schemes: Definition
  - Anatomic (30 or 33 degree teeth)
  - Semi-anatomic (20 degree teeth)
  - Rationale (zero degree teeth)

REFERENCES:
- Boucher’s Prosthodontic Treatment for Edentulous Patient, 11th ed, Chapter 15, pp. 262 - 278

CLINICAL SESSION NO. 14
DEMO & PRACTICE: Examination of partially edentulous patient; making primary impressions in alginate

LABORATORY SESSION NO. 14
DEMO & PRACTICE: Construction of sectional record blocks

MID YEAR DIDACTIC EXAM

CLINICAL SESSION NO. 15
DEMO & PRACTICE: Face-bow and CR for diagnostic casts

MID YEAR CLINICAL EXAM

LABORATORY SESSION NO. 15
DEMO & PRACTICE: Mounting diagnostic casts (split casts), surveying and preparation of abutment preparation list
## 2nd Semester
12 – 16 Feb. 2011

### LECTURE NO. 16
**Lecturer:** Dr. Ibrahim Alshiddi
**TITLE:** Retention and stability of removable dentures

### CLINICAL SESSION NO. 1 for CD Group
**DEMO & PRACTICE:** Examination of completely edentulous patient

### LABORATORY SESSION NO. 1 for CD Group
**DEMO & EXERCISE:** Construction of record blocks for lab exam

### CLINICAL SESSION NO. 1 for RPD Group
**DEMO & PRACTICE:** Examination of partially edentulous patients, making primary impressions in alginate

### LABORATORY SESSION NO. 1 for RPD Group
**DEMO & EXERCISE:** Construction of sectional record blocks
### LECTURE NO. 17

**Lecturer:** Dr. Abdulaziz Albaker  
**Title:** Principles of partial denture design

**Topics:**
- The types of leverages are present in a RPD, its classification, mechanical advantages related to stress on abutment teeth
- Distribution of load to each part of RPD
- Factors that influence the magnitude of the stress that is transmitted to the abutment tooth
- Design consideration in controlling leverage induced stress. Summary of the basic principles.

**References:**

### Clinical Session No. 2 for CD Group

**Demo & Practice:** Primary impressions: tray selection, impression making

### Laboratory Session No. 2 for CD Group

**Demo & Practice:** Construction of custom trays

### Clinical Session No. 2 for RPD Group

**Demo & Practice:** Face-bow and CR for diagnostic cases, mounting diagnostic casts (split casts) and writing treatment plan

### Laboratory Session No. 2 for RPD Group

**Demo & Practice:** Surveying and preparation of abutment preparation list
**LECTURE NO. 18**

**Lecturer:** Prof. Elhamy Abed

**TITLE:** Stress consideration in distal extension partial dentures

**TOPICS:**
- Basis for clasp selection
- Clasp mechanics and the effect of various designs on the supporting structures
- Design consideration of the reciprocal components
- Advantages, disadvantages, indications and contraindications of stress releasing clasps

**REFERENCES:**
- Phoenix, Rodney D.; Cagna, David R.; and DeFreest, Charles F., Stewart’s Clinical Removable Partial Prosthodontics, 3rd ed., Chap. 4, pp. 103 - 126

**CLINICAL SESSION NO. 3 for CD Group**

**DEMO & PRACTICE:** Upper final impressions:
- Checking custom trays
- Border molding
- Impression making

**LABORATORY SESSION NO. 3 for CD Group**

**DEMO & EXERCISE:** Construction of upper record block

**CLINICAL SESSION NO. 3 for RPD Group**

**DEMO & EXERCISE:** Abutment preparation, check impression

**LABORATORY SESSION NO. 3 for RPD Group**

**DEMO & EXERCISE:** Construction of custom tray, filling lab authorization form (upper arch)
LECTURE NO. 19

Lecturer: Prof. Faisal Fahmi

TITLE: Try-in of complete dentures

TOPICS:

- Verification of centric relation record
  - Tactile method (intraorally), Proving the articulator, Vertical relation, Remounting

- Eccentric records
  - Protrusive record, Adjusting the horizontal condylar guidance, Lateral records, Adjusting the horizontal condylar guidance, Hanau formula for adjusting the horizontal condylar guidance

- The appearance phase
  - Anterior teeth, anteroposterior position, super-inferior position, midline position, inclination, individual tooth position, size, form and shade of teeth

- Posterior teeth
  - Positions, size, mould and shade, Concept of occlusion and shape of polished surface of the dentures

REFERENCES:

- Boucher’s Prosthodontic Treatment for Edentulous Patients. Chap. 16, pp, 279-321
- Fenn, Liddlow & Gimson, Clinical Dental Prosthetics, 2nd ed., Chap. 11, pp. 309-325

CLINICAL SESSION NO. 4 for CD Group

DEMO & PRACTICE: Lower final impressions:
- Checking custom trays
- Border molding
- Impression making

LABORATORY SESSION NO. 4 for CD Group

DEMO & EXERCISE: Construction of lower record block

CLINICAL SESSION NO. 4 for RPD Group

DEMO & PRACTICE: Final impression of upper arch

LABORATORY SESSION NO. 4 for RPD Group

DEMO & PRACTICE: Construction of custom tray, filling lab authorization form (lower arch)
# LECTURE NO. 20

**Lecturer:** Prof. Elhamy Abed

**TITLE:** Various techniques for posterior palatal seal

**TOPICS:**
- Definition
- Purpose
- Anatomy
- Physiologic method using mouth temperature wax
- Biomechanical methods
- Combination physiologic and biomechanical methods

**REFERENCES:**
- *Boucher’s Prosthodontic Treatment for Edentulous Patients, Chap. 9, pp. 141-161; Syllabus of Complete Dentures pp. 191-192, 462-463*

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## CLINICAL SESSION NO. 5 for CD Group

**DEMONSTRATION:** Recording centric jaw relation:
- Checking upper record base intra-orally
- Orientation of upper occlusal plane
- Checking lower record base intra-orally
- Recording of occlusal vertical dimension
- Checking tongue space

## LABORATORY SESSION NO. 5 for CD Group

**DEMO & EXERCISE:** Mounting the casts of lab exam

## CLINICAL SESSION NO. 5 for RPD Group

**DEMO & PRACTICE:** Final impression of lower arch

## LABORATORY SESSION NO. 5 for RPD Group

**DEMO & EXERCISE:** Preparation of custom trays for exam
**LECTURE NO. 21**

**Lecturer:** Dr. Ibrahim Alshiddi

**TITLE:** The metal framework try-in and dual impression technique

**TOPICS:**

- Checking the metal framework on the cast and out of cast
  - Do the components in proper position as indicated in the design
  - Examining the tissue side of the metal framework

- Fitting the metal framework to the teeth of the patient
  - Adjusting the clasps
  - Adjusting the overextension of the metal framework
  - Wedging effect

- Adjusting the framework to the opposing teeth
  - Objectives
  - Equilibration of occlusion – materials and methods employed

**REFERENCES:**


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**CLINICAL SESSION NO. 6 for CD Group**

CONTINUE: Recording centric jaw relation:

- Checking lower occlusal plane
- Recording centric jaw relation
- Face-bow record
- Selection of teeth

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**LABORATORY SESSION NO. 6 for CD Group**

DEMO & EXERCISE: Setting upper and lower anterior teeth

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**CLINICAL SESSION NO. 6 for RPD Group**

CLINICAL EXAM: Final impressions, pouring final impressions

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**LABORATORY SESSION NO. 6 for RPD Group**

DEMO & EXERCISE: Tutorial by coordinators for different designs
LECTURE NO. 22

TITeL: Try-in of waxed partial denture

TOPICS:
- Indications of try-in waxed partial denture
- Esthetics
- Verification of jaw relations
  - If the partial denture is opposed by a complete denture
  - If all the posterior teeth in both arches are being replaced
  - If there are no opposing natural teeth in contact

REFERENCES:

CLINICAL SESSION NO. 7 for CD Group

DEMO & PRACTICE: Trial of waxed complete denture -
- Checking anterior teeth
- Verification of CR
- Making protrusive record

LABORATORY SESSION NO. 7 for CD Group

DEMO & EXERCISE: Setting upper and lower anterior teeth

CLINICAL SESSION NO. 7 for RPD Group

CLINICAL EXAM: Fitting metal framework

LABORATORY SESSION NO. 7 for RPD Group

DEMONSTRATION: Construction of sectional lower custom tray
**LECTURE NO. 23**

**Lecturer:** Dr. Abdulaziz Albaker

**TITLE:** Denture placement and clinical remount procedures

**TOPICS:**
- **Initial insertion**
  - Evaluation of tissue surface, border extensions, retention & stability, esthetic & facial contours
  - Centric relation records
- **Clinical remount**
  - Denture remount and selective grinding
  - Final intra-oral check-up
- **Instruction to patients and recall appointments**
  - First oral feelings, excessive salivation, speech
  - Maintaining tissue health
  - Complete denture hygiene

**REFERENCES:**
- Textbook of Complete Dentures by Rahn & Heartwell, 5th ed., Chap. 18, pp. 387-400

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**CLINICAL SESSION NO. 8 for CD Group**

**DEMO & PRACTICE:** Trial of posterior teeth, scoring the posterior palatal seal area

**CLINICAL EXAM:** Final Impression

**MID TERM PRACTICAL:** 06/04 – 16/04/2011

**LABORATORY SESSION NO. 8 for CD Group**

**DEMO & EXERCISE:** Wax-up of complete denture

**CLINICAL SESSION NO. 8 for RPD Group**

**CLINICAL EXAM:** Sectional corrective impression

**LABORATORY SESSION NO. 8 for RPD Group**

**DEMO & EXERCISE:** Construction of occlusion rims
LECTURE NO. 24  
Lecturer: Prof. Faisal Fahmi  

TITLE: Post insertion problems and management of complete dentures  

TOPICS:  
- Basal tissue irritation: detection and correction  
- Occlusal discrepancies: detection and correction  
- Defective denture retention: detection and correction  
- Gagging: its causes and correction  
- Poor mastication and phonetic defects  

REFERENCES:  

CLINICAL SESSION NO. 9 for CD Group  
DEMO & PRACTICE: Laboratory remounts  

LABORATORY SESSION NO. 9 for CD Group  
DEMO & EXERCISE: Preparing mounted jaw relation for lab exam  

CLINICAL SESSION NO. 9 for RPD Group  
DEMONSTRATION: Jaw relation, selection of shade  

LABORATORY SESSION NO. 9 for RPD Group  
DEMO & EXERCISE: Setting artificial teeth
# LECTURE NO. 25

**Lecturer:** Prof. Elhamy Abed  
**Title:** RPD denture placement, counseling, complaints and adjustments

**Topics:**  
- Fitting of the prosthesis: the procedures  
- Counseling the patient  
- Post-insertion follow-up  
- Common complaints of the partial denture wearer  
- Factors in assessing the need for adjustments  
- Inflammation caused by the prosthesis that often elicit no complaint

**References:**  

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**Clinical Session No. 10 for CD Group**  
**Demo & Exercise:** Denture insertion, clinical remount

**Laboratory Session No. 10 for CD Group**  
**Demo & Exercise:** Selective grinding

**Clinical Session No. 10 for RPD Group**  
**Demo & Exercise:** Trial of waxed dentures

**Laboratory Session No. 10 for RPD Group**  
**Demo & Exercise:** Wax-up of RPD
## LECTURE NO. 26

**Lecturer:** Dr. Abdullah Alfarraj

**TITLE:** Provisional removable partial dentures

### TOPICS:
- **Definitions**
- **Indications for:**
  - Interim removable partial dentures
  - Transitional removable partial dentures
  - Treatment removable partial dentures
- **Clinical procedures and number of patient visits for:**
  - Interim removable partial dentures
  - Transitional removable partial dentures
  - Treatment removable partial dentures (including use of tissue conditioners)
- **Placement (insertion) visit**

### REFERENCES:
- *McCracken Removable Prosthodontics, Chap. 23, pp. 391-420*

## CLINICAL SESSION NO. 11 for CD Group

**DEMO & PRACTICE:** Denture insertion

## LABORATORY SESSION NO. 11 for CD Group

**DEMO & EXERCISE:** Arrangement of teeth for Class III relation

## CLINICAL SESSION NO. 11 for RPD Group

**DEMO & PRACTICE:** Insertion of dentures

## LABORATORY SESSION NO. 11 for RPD Group

**DEMO & PRACTICE:** Tutorial by coordinators of different designs
### LECTURE NO. 27

**Lecturer:** Dr. Abdulaziz Albaker

**TITLE:** Immediate complete dentures (Part 1)

**TOPICS:**

- **Definitions**
  - Conventional and immediate complete denture
  - Interim (temporary) immediate complete denture
- **Indications and advantages of immediate denture service**
- **Contraindications for immediate denture service**
- **Clinical steps and laboratory procedures for conventional immediate complete dentures**
  - Visit 1: Initial consult visit, ordering radiographs, diagnostic impression
  - Visit 2: History taking, comprehensive examination, scheduling posterior teeth extractions, verbal & written explanations
  - Visit 3: New impression after posterior teeth extractions. Lab prescription: fabricate full-arch or sectional custom impression trays.
  - Visit 5: Maxillomandibular jaw records, posterior palatal seal, shade & mould selections. Lab prescription: instructions for articulator mounting (facebow & centric relation record) & setting of artificial teeth

**REFERENCES:**

- *Textbook of Complete Dentures, Chap. 21, Immediate Complete Dentures General Considerations, 5th ed., 1993, pp. 437-451*

### CLINICAL SESSION NO. 12 for CD Group

**DEMO & PRACTICE:** First inspection

### LABORATORY SESSION NO. 12 for CD Group

**DEMO & EXERCISE:** Arrangement of teeth for Class III relation

### CLINICAL SESSION NO. 12 for RPD Group

**DEMO & PRACTICE:** First inspection

### LABORATORY SESSION NO. 12 for RPD Group

**LAB EXAM:** Cast surveying and designing
LECTURE NO. 28  
Lecturer: Dr. Abdulaziz Albaker

TITLE: Immediate complete dentures (Part 2)

TOPICS:
- Visit 6: Placement (insertion visit for immediate dentures)
- Post-placement visits
- Patient complaints & solutions associated with immediate complete dentures
- Stabilization of immediate complete dentures during the soft and hard tissue healing period
- Permanent relining (hard acrylic) of conventional immediate complete dentures
- Pre-extraction casts

REFERENCES:
- Textbook of Complete Dentures, Chap. 21, Immediate Complete Dentures General Considerations, 5th ed., 1993, pp. 437-451

CLINICAL SESSION NO. 13 for CD Group

DEMO & PRACTICE: Second inspection

LABORATORY SESSION NO. 13 for CD Group

LAB EXAMINATION: Setting teeth for Class II jaw relation

CLINICAL SESSION NO. 13 for RPD Group

DEMO & PRACTICE: Second inspection

LABORATORY SESSION NO. 13 for RPD Group

DEMO & PRACTICE: Examination and primary impression with completely edentulous patient
29th Week
21 - 25 May 2011
Review

30th Week
28 May – 1 June 2011
Review

31st Week
4 – 8 June 2011
Review