



**University of Jordan
Faculty of Dentistry
Dept. of Prosthetic Dentistry
Fifth Year, 2010-2011
Removable Prosthodontics Clinical 3**

Course Title: Removable Prosthodontics Clinical 3

Course Code: 1304544

Prerequisite: Removable Prosthodontics Laboratory 1 and Removable Prosthodontics Clinical 2.

Clinic Venue: Prosthodontics Teaching Clinics, Level -2
The University of Jordan Hospital,

Clinic Times:

| Day | 8 -10 | 10:15-12:15 | 12:30-2:30 | 2:45-4:45 |
|-------|-------|-------------|------------|-----------|
| Sun | | | | |
| Mon | | | | |
| Tues | | | | |
| Wed | | | | |
| Thurs | | | | |

The program is announced before the beginning of each semester.

If the clinic day is a Holiday; the clinic will be automatically transferred to the next week.

Course Description:

This is a clinical based Prosthodontics course where students are trained on the various steps involved in the construction of conventional and non-conventional complete dentures and removable partial dentures. The practical sessions are given on weekly basis. Theoretical background is the responsibility of the student. However, short talks during clinic and treatment will be provided during the clinic. No demonstrations of the work to be done. However, during each practical step strict supervision will be provided to ensure that all students acquire the skills necessary to do the practical work of removable dentures taking into account the variations in the level of understanding between students.

The clinical work of relation to the laboratory work is discussed with the students to ensure that the students understand each practical step.

Objectives and Goals:

- ❖ This clinical course concludes the last sequence of removable prosthodontic courses leading to a professional degree in dentistry. Experience attained to complete this level brings the student to a point of self-assessment. The student should make sound judgment independent of the instructor. The overall abilities should also show the formation of the student's progress to the point of attaining competency. This course is designed to develop clinical skills and provide information for utilizing removable prosthodontics (conventional and non-conventional complete and partial dentures) for the management of completely/partially edentulous patients.
1. Provide the students with more advanced, current, evidence based and updated information and sufficient practical clinical background to assist them in managing completely/partially edentulous patients using conventional and non-conventional removable complete or partial dentures. This is in the form of clinical sessions.
 2. Provide clinical training on the various steps involved in fabrication of conventional and non-conventional complete and removable partial dentures.
 3. Prepare the students to be more skilled and efficient with all clinical steps in conventional and non-conventional complete denture and Transitional/Definitive removable partial denture construction and how to manage edentulous patients.
 4. Learn how to communicate with other professionals especially dental technicians by the work authorization.
 5. Finish various requirements including conventional and non-conventional complete and partial dentures going through the entire clinical steps.

Learning Outcomes:

1. Be more efficient, clinically oriented and able to tackle the problem solving issues and the more sophisticated prosthodontic treatment.
2. Be more aware and familiarized with the consequences of edentulousness, conventional and non-conventional complete and partial denture components and terminology.
3. Gain working knowledge on the advanced treatment modalities in removable prosthodontics.
4. Gain competency in history taking and clinical examination and in the formulation of the most appropriate treatment plan. Gain skills of gathering information from patients and establish ways of good communication
5. Be more familiar with the anatomy of the denture bearing areas in the mandible and maxilla and how to overcome anatomical obstacles to prosthodontic treatment.
6. Gain working knowledge on the properties of dental materials used in prosthodontics and their clinical applications.
7. Be more experienced and practice the principles of making primary impressions for teeth and edentulous ridges. Selection of appropriate size of stock tray, handling and mixing alginate or impression compound, and ability to evaluate the impression.

8. Be more experienced and practice the principles of making special trays for completely/partially edentulous cases and practice the principles of making secondary impressions for teeth and edentulous ridges including special tray adjustments and border molding. Ability to trim the special tray to the appropriate dimensions and trace the borders accurately and then selecting the appropriate impression material for making the final impression.
9. Be more experienced and practice the principles of jaw relationships registration for completely/partially edentulous patients and dealing with record blocks intraorally. Ability to trim wax rim according to lip support, leveling of occlusal plane, vertical dimension, free-way space and ability to record the centric jaw relationship accurately, and shade selection.
10. Be more experienced and practice the principles of tooth selection and occlusion for partial and complete denture.
11. Be more experienced and practice the principles of mounting for completely/partially edentulous cases.
12. Be more experienced and practice the principles of setting teeth and the principles of waxing and festooning removable dentures. Ability to assess the trial denture from all aspects mentioned in the registration stage: Aesthetics, phonetics, occlusion.
13. Be more experienced and practice the principles and techniques of providing postdams for complete dentures.
14. Ability to assess retention, stability, support, appearance of finished dentures, in addition to occlusal adjustment and clinical remount if necessary.
15. Ability to identify patients complaints and try to solve them.
16. Be more efficient and skilled regarding the clinical techniques that are used in our daily practice during removable prosthodontic treatment.
17. Be more experienced and know the functions, shape, form and location of different components of RPD and clinically apply this information.
18. Be more experienced and Practice the principles of Removable partial denture (RPD) design. Practice surveying, designing partial denture, drawing the design on the form, and communicating with the laboratory.
19. Be more experienced and Practice the procedure of cast surveying and the necessary tooth preparation procedures for RPDs. Practice rest seat and guiding planes preparation, and assessing undercut retention.
20. Practicing a mucocompressive impression of the free end saddles using the metal framework, and modifying the cast accordingly.
21. Be more experienced and practice how to authorize work to dental technicians.

Teaching and Learning Methods:

- Clinical sessions are designed to achieve the course objectives
- The acquired clinical skills during this course will allow the student to manage completely/partially edentulous patients using conventional and non-conventional complete and partial dentures, be more efficient, and be more capable of problem solving during prosthodontic treatment.
- Discussions with the clinical supervisors are main component of the teaching methods. The students treat patients under strict supervision.
- The students are responsible of the material covered during the course

- Any difficulty or concern during the course should be passed to the instructors and course coordinator immediately.
- During the course, once you finished a case with one supervisor; you should switch to the other supervisor to start a new case and you must not stick to one supervisor during the whole semester. This is essential and mandatory for the student to be exposed to the experience of all available supervisors and thus make the best of all their knowledge and experience.

Attendance:

- It is mandatory for all clinical sessions.
- Every student will be allocated to a chair and clinic according to the serial number.
- UJ regulations will be applied when you exceed 10% of an excused absence.
- Course drop date is according the UJ regulations.
- The dental nurse in the clinic will review the attendance in each clinic during the first 10 minutes of clinic time.
- Changing clinics is not allowed without previous arranged appointment under the supervision of the supervisor who allowed for the change and on the condition that this will not disturb the clinic and will not affect the work of other students who attend that clinic according to the schedule.

Work Load:

The average work load is 3 hours/student/week.

Lab Work:

- A lab form should be completed and signed by the clinical supervisor before sending the work to the lab. The instructions should be fully detailed and clear to avoid any lab errors.
- The student work should be marked with the students name and university number
- The Lab work should be finished in the UJ dental technology labs and you are allowed to finish your work outside the university.
- The student is responsible for fabrication and maintenance of primary models, special tray, secondary models, record blocks, mounting, setting of teeth, flasking, dewaxing, packing, curing, deflasking, finishing and polishing of the denture.
- All the instruments you need should be brought as soon as possible. A list of that will be provided.
- You should leave your worktop as clean as possible
- Cooperation and professionalism in the lab are very helpful and encouraged to facilitate your progress in the course
- Dress code using lab coat should be adhered to all the time in the lab, and the coat should be on before entering the lab and only removed outside the lab after finishing the work.

Participation:

- All students are highly encouraged to participate in the clinical sessions
- Quizzes and brain storming questions will be essential part of the course
- All Students are highly encouraged to finish all the requirements of this course in due time
- Being a positive party during this course will be helpful
- Never be shy to participate & ask where you get it wrong.
- Make use of the time by attending the clinic even if you do not have patients in order to see cases of other students and learn from others' mistakes and cases.
- No student should relay on the clinical supervisor to do the work for them. Supervisors are to help you but not to do your job. This does not mean that the supervisor should not interfere whenever required to do so.
- No student should do the work of other student and this will negatively affect you.
- Home reading: Students should study at home for every clinical and laboratory step in constructing complete denture, clinical exams and assessment will include topics covered in the 3rd & 4th year concerning complete & partial dentures. Students should read and prepare at home for every clinical step they are supposed to do at the clinic and they will be subject for evaluation, assessment and marking

Assessment and Exams policy:

Exams' Format: The exams are practical exams. However, they might be in other formats like spot exams and viva.

Make up Exams: It is applicable when an acceptable and valid excuse is presented at the applicable time.

Dates: According to Registration Unit and the Examination committees.

Cheating:

- It is unethical and illegal by any means
- UJ regulations will be applicable
- The work should be your own, otherwise it will be scored zero

Continuous assessment, Quizzes and Participation form portion of the assessment

Continuous assessment sheets are marked every clinical step and will be kept in special locker with the responsible dental nurse of the clinic.

No case will be marked or considered without a signed case history sheet

Here is a suggestion of exams, assessment dates and grade distribution:

| Assessment policy | | |
|------------------------|-----------------------|--------|
| Assessment Type | Expected Due Date | Weight |
| Continuous Assessment | Throughout the course | 60 |
| Final Practical Exam | End of the year | 30 |
| Final viva examination | End of the year | 10 |
| Total | | 100 |

Please note that the grade distribution might be modified and changed according to certain circumstances and this will be announced to the students in advance.

Professionalism:

- Professions tend to be autonomous and self-sufficient i.e having a high degree of control of own affairs while having freedom to exercise professional judgment.
- As it is a trait, which can be easily enhanced, it is thus subject to self-interest and a continuous process of critical evaluation of ethics and procedure.
- As the students have been part of the university for some considerable time, they would be familiar with general principles about it's beliefs on matters such as quality studentship within this environment. We thus expect our students to develop their professionalism even further together with a high Morality. And Dentistry is one of these professions based on such Ethical codes.
- Gross violations of these formal codes are governed by University laws, which delineate the procedures to determine whether a violation of the code of ethics occurred and, if so, what remedies should be imposed.
- This does not mean the list is complete. We encourage students to abide with the more sensitive approach to this by allowing the practice of a high Morality (or proper behavior), which defines right and wrong by the society, philosophy, religion, and individual conscience.
- Students and their instructors often make ethical choices reflexively. But ethically sensitive situations, where time, emotions and marks are pressured, it becomes all too easy to be blind-sided by temptation. The best antidote to ethical lapses is to commit in advance to a set of ethical principles - your personal ethical code that follows or grows to it
- The course coordinator is always available to talk with the student when problems arise. If a student must talk with the course coordinator after office hours, an appointment can be made for that time
- If you have any problems that require the attention of an instructor, do not wait until the problem is insurmountable. Do not allow tension to build-up to unsolvable proportions.

Students with special needs:

- Any student who feels that s/he may need accommodation for any type of disability is encouraged to contact the course coordinator who will be happy to help in any way.

- Accommodations to the course plan can be tailored to the needs of specific individuals after consultations with the dean.

Course changes:

- Information contained in this course outline is correct at the time of publication.
- Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment needs.
- The course coordinator reserves the right to add or delete material from courses and will endeavor to provide notice of changes to students as soon as possible.
- The timetable may be revised accommodating to holidays & unexpected off days.

Infection Control, Health and Safety measures:

- It is mandatory for each student to wear gloves, masks, protective eye goggles, and lab coats.
- No student is allowed to treat patients if not immunized for Hepatitis.
- Any student with infectious disease (especially viral diseases) should report this to the clinical supervisor before treating or dealing with any patient.
- No student should treat any patient with infectious disease (especially viral diseases) before taking the full permission of the clinical supervisor and under strict infection control measures.
- The student is responsible for disinfecting the lab work before bringing it to the clinic.
- The student is responsible for disinfection of the clinical work (e.g. impressions,...etc) before taking it out of the clinic.
- The clinical work should be washed from blood and saliva under running tap water before asking the supervisor to evaluate them.
- Students should never handle case history sheets, clothes, log books, clean instruments, separating walls between clinics, doors, pens, their bags with infected substance (e.g. saliva, blood,..etc) on their gloves or hands. All efforts should be carried out to prevent cross infection of the clinical environment.
- The clinics should be wrapped before patients are allowed to the clinic and this should make it easier to control cross infection and disinfect the dental chair after completion of the clinical session. Disinfectants should also be used to disinfect the dental chair after the removal of the cling films.
- No impression materials or wax or remnants of any material should be left in the sink of the dental chair or the hand washing basin to avoid cross infection and blockage of the sink.
- Patients should wear aprons to protect their clothes.
- Patients' medical history and status should be taken into full consideration every clinic and during the whole clinical session. Report and medical problems that might interfere the treatment.
- It is mandatory to wear the coat outside before getting into the clinic and it is strictly forbidden to enter the clinic without the coat being on. Also, students are not allowed to take their coats off until they exit the clinic. This measure is very important to control cross infection in the clinic.

Instruments:

You need to bring the following armamentarium during each clinical session:

- Impression trays of different sizes and for different purposes.
- Wax knife, Lacron carver and Plaster Knife
- Loop forming pliers and Wire cutter
- Rubber bowl and Plaster spatula
- Protective glasses, Lighter and Pencil (copia)
- Gloves, masks and Eye protective glasses
- Clean and Tidy Laboratory white coat available every clinic. Name badge mounted all the time during the laboratory sessions

This list will be checked during the clinical session

Students are not allowed to share instruments especially the copia pencil in order to prevent cross infection.

CLINICAL REQUIREMENTS:

According to the Department Policy.

References:***Textbooks:***

Complete Denture Prosthodontics:

- Essentials of Complete Denture Prosthodontics by Sheldon Winkler (1994)
- Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Protheses by George A. Zarb, Charles L. Bolender, Steven E. Eckert, and Aaron H. Fenton (2003)
- Prosthetic Treatment of the Edentulous Patient, 4th Edition. RM Basker and JC Davenport; 2002, Blackwell Munksgaard Publishers
- The Complete Denture: A Clinical Pathway. Michael MacEntee; 1999. Quintessence Publishing Co, Inc
- Clinical dental Prosthetics, 4th edition. Roy MacGregor
- Complete denture Prosthetics, 3rd Edition. RJ Neill and RI Nairn; 1990

Partial Denture prosthodontics:

- McCracken's Removable Partial Prosthodontics (Carr, McCracken's Removable Partial Prosthodontics) by Alan B. Carr, Glen P. McGivney, David T. Brown. Elsevier, 2005, 11th ed.
- A color Atlas of Removable Partial Dentures by Basker R.M., Heath J.R., Ralph, J.P. Wolfe Medical Publications Ltd, 1988.

- Stewart's Clinical Removable Partial Prosthodontics by Rodney D. Phoenix, David R. Cagna, Charles F. Defreest. Quintessence Publishing (IL); 4 edition (October 2008)
- Dental Laboratory Procedures. Removable Partial Dentures, Volume 3 (v. 3) (Hardcover) by Kenneth D. Rudd, Robert M. Morrow, Harold F. Eissmann
- Removable Partial Denture Design. Outline Syllabus.5th edition Krol et al: 1999

Handouts: According to the lecturer