

The University of Jordan
Faculty of Dentistry
Department of Conservative Dentistry
2011/2012

Course Title: Conservative Dentistry Practical 2 (Endodontics)

Course Code: 1302320

Semester: 1st & 2nd (3rd year level).

Prerequisite: None

Department: Conservative Dentistry.

Module Coordinator: Dr Mohammad Hammad.

Instructors:

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Course Objectives:

Objectives of the course are:

- To familiarize students with the internal anatomy of teeth and pulp system.
- The students should be able to carry out access cavity, cleaning and shaping and obturation of root canals of human extracted teeth.
- The students should learn when and how to use various endodontic instruments while doing root canal treatment.
- To teach the students the necessary fundamental manual practical skills for root canal treatment that would furnish the ability to deal with patients that need endodontic treatment in a clinical setting.

Learning Outcomes:

Successful completion of this course should lead to the following:

- Students should gain practical skills related to the concepts, principles and methods of root canal treatment.
- Students should be able to identify and use various endodontic instruments and materials used for root canal treatment teeth.
- Students should be able to recognize and evaluate the complexity of the internal anatomy of the tooth and the pulp canal system.
- Students should be able to appreciate the use of radiographs and have the ability to identify when and how they are used and developed.

A. Knowledge and understanding, student should:

- Gain full knowledge of the internal anatomy of the tooth and the pulp system.
- To understand the principles and concepts of methods and practices used for root canal treatment.
- When and how to use the different root canal treatment instruments and materials.

B. Manual skills, with ability to:

- To practically carry out access cavity, cleaning and shaping and root canal filling on extracted human teeth.
- To gain the ability to effectively use root canal treatment instruments and materials.
- To take and develop dental x-ray radiographs.

Teaching Methods:

Duration: 32 weeks in 1st and 2nd semester (3rd year), 64 hours in total.

Practical sessions: 64 hours, a 2-hour session every week (including a 2-hour final practical exam).

Requirements:

- Instruments:
Low and high speed burs, mirror, tweezers, endodontic explorer, k-files of various sizes and lengths, hand and finger spreaders, scissors, mixing bowl and spatula.
- Materials:
Extracted human teeth, dental radiographs, gutta perch and sealer.
- Students will be asked to perform root canal treatment on extracted human teeth mounted in plaster blocks and into artificial upper and lower jaws. Treatment will be divided into three major steps; access cavity, cleaning and shaping and finally obturation. Treatment will be carried out on anterior, premolar and molar teeth.

▪ Evaluation system:

- The system will be based on evaluation of work quality.
- The distribution of marks will be as follows:
 - All year evaluations: 60%
 - Final exam: 40%
- Regarding all year evaluation:
Students will be asked to perform certain tasks within the scope of root canal treatment and his/her work will be evaluated. 8 evaluations will be done in the first semester and 4 in the second semester. Overall mark will be out of 60.

- Regarding final exam:

Students will be asked to perform a full root canal treatment on an anterior tooth mounted into a plaster block. Final mark will be out of 40.

- Attendance:

- Students are allowed 15% absence according to university laws. This translates into 5 clinics for 3rd year students in the conservative dentistry practical 2 course (endodontics).
- Any student who comes late to the clinic will be registered as so and possibly might lose marks from that session evaluation.

References and reading materials:

- Pathways of the pulp, 10th edition, Hargreaves and Cohen.
- Endodontics: Principles and Practice, 4th edition, Walton and Torabinejad.