Course Outline

Sumer Alaki
Course Director

Course schedule: Female - Saturday lecture (1:00 – 2:00pm) Clinic (2:00 – 5:00 pm)
Male - Sunday lecture (1:00 – 2:00pm) Clinic (2:00 – 5:00 pm)

Type of course: Clinical

Director’s office hrs.: Saturdays: Sundays:

Procedures: Students have to attend their lectures in the lecture rooms (females in bldg. 10 and the males in bldg. 14). Laboratory sessions are held in the Phantom Labs (bldg. 10 for females and bldg. 12 for males). Clinical sessions are held in bldg. 11, 1st level for females and ground floor for males. Attendance sheets are signed at the beginning of each lecture and clinical sessions.

I. Course Description

Clinical Module
The Specialty of Pediatric Dentistry involves Practicing and Teaching a comprehensive, preventive and therapeutic oral health care of children from birth through adolescence. It also includes providing care for special patient beyond the age of adolescence who demonstrated mental, physical or emotional problems.

At the end of the course the students should acquire the following:

1. Empathy
The student has a proper degree of empathy with the patient’s fear, pain or discomfort.

2. Professional Integrity
The student complies with taught principles even when unsupervised (sterilization of instruments, honesty in class work and on examination)
3. **Balanced Mind**

The student places proper weight on law and custom, as well as on money and fame. He has no strong prejudices against minority group. He gives proper credence to statements of authority, theory, empirical generalization as well as his own experiences.

4. **Self-discipline**

The student is neither rash nor timid in drawing conclusions from (the usually) ambiguous biological data. He can suppress, if any, a visible emotional reaction to an annoying situation. His behavior is organized and systemic (arrangement of instruments, personal neatness). He is punctual and can be depended on unto meeting commitments on time.

5. **Scientific curiosity**

The student seeks reason for principles and generalization rather than learning by note. He considers knowledge and experience worthwhile ends in themselves rather than just means of getting good grades.

6. **Realistic self-evaluation**

The student is aware of his own strengths and weaknesses and will request assistance when a task is beyond his abilities.

7. **Physical and mental stamina**

The student possesses stamina to accomplish a full day’s work of a nearly constant quality.

8. **Pleasant personality**

The student gets along with fellow students, patients and instructors. He inspires confidence and respect for his abilities.

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**II. Overall Goals and Objectives of the Clinical Module**

**Clinical Module**

This module aims at helping the student to develop basic diagnostic and clinical skills. Upon completion of this module, the student should be able to:

1. Differentiate between normal and abnormal development of human organism.

2. Guide the behavior of the child and adolescent to the extent that necessary dental procedures can be completed efficiently and safely.

3. Develop a data base from which he will be able to formulate an accurate diagnosis.
4. Diagnose the nature of the child and adolescent’s oral health problem(s) and plan appropriate therapy.

5. Effectively communicate with the parent(s).

6. Implement a scientifically-based, effective program of primary prevention for children and adolescents.

7. Render restorative care for teeth whose structural integrity has been compromised.

8. Treat pulpally affected teeth.

9. Supervise the developing occlusion in such a manner that selected malocclusion can be prevented and/or intercepted with appropriate therapy.

10. Provide dental care for mentally, physically and/or emotionally handicapped children.

11. Recognize and refer patients whose conditions are beyond his/her competency and qualifications to specialists competent to provide required care.

**Didactic Objectives**

*At the end of the course, the students should acquire the following:*

1. **Knowledge of Pedodontics:** to know the facts and some of the explained “ways” of Pedodontics. These information are obtained in the lectures which may be presented by invited guest speakers and the required text. Some emphasis may be given to certain areas of the texts, but all areas are required to be known.

2. **Undertaking of Pedodontics:** it is the ability to solve problems in Pedodontics. This will require the integration of knowledge of Pedodontics, General Dentistry, Medicine and the Basic Sciences. Tutorial sessions are planned to help the student to develop this potency. This aspect of the didactic course will be evaluated on the final exam.

3. **Ability to learn:** it is the ability to learn independently from texts, internet lectures, library materials, and discussion with faculty members. This is important for he/she is only in formal education for 3 years and may spend the next 40 years with only himself as an educator.

**III. Course Content (List of topics)**

**Clinical Module**

1. Introduction to Pediatric Dentistry
   Examination and Treatment planning

2. Dental radiology for the child patient (in course assessment)
3. Pain control in Pediatric Dentistry, Local anesthesia technique
4. Development of the child patient fro the psychological management perspective I
5. Development of the child patient fro the psychological management perspective II
6. Non-pharmacological behaviour management for the child patient in the dental environment
7. Preventive care in pediatric dentistry I
   Preventive care in pediatric dentistry II
8. Fluoride therapy in the management of the dental caries in children and adolescent I
9. Fluoride therapy in the management of the dental caries in children and adolescent II
10. Basic principles and advances in cariology
11. Caries in children
12. Restorations of primary and young permanent teeth (new trends)
13. Pulp therapy for primary and young permanent teeth I
14. Pulp therapy for primary and young permanent teeth II
15. Gingival and periodontal diseases and conditions in children

V. Course Materials

Clinical Module
Dentistry for the Child and Adolescent 7th edition

Authors: Ralph E. McDonald & David R. Avery
Publisher: Mosby Publications
ISBN: 0-8151-9017-4
Description: © 2000

In addition to the textbooks the students are provided with the following:
1. Lectures handouts
2. Reprints of important journal articles
3. Copies from other textbooks or articles if required.

VIII. Course Assessment and Scoring (200)

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<th>Marks</th>
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<td>80 Marks (40%)</td>
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<td>120 Marks (60%)</td>
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Continuous Assessment 1

| Quiz 1 | 10 |
| Midyear Requirements | 30 |
| 80 Marks (40%)        |

Final 2

| Quiz 2 | 10 |
| Written exam | 60 |
| Practical/Clinical | 30 |
| Oral exam | 20 |
| 120 Marks (60%)    |

Total 200

Note: The students must finish his/her clinical requirement to be eligible to sit for written exam.

IX. Evaluation

In the clinic

Students will be evaluated and graded for each clinical procedure as part of criteria of continuous assessment (see attached requirement sheet and appropriate grades of each procedure). When practicing in the clinic, the student should complete the clinical evaluation form and then ask the instructor’s evaluation, just as it was done in the laboratory. The clinical evaluation forms are stated in more general terms than are the typodont evaluation forms and are appropriate for the variety of lesion encountered when treating the patient.

Didactic evaluation

The student will be assessed for the didactic part by taking written exam. Quiz 1 for the 1st semester, Quiz 2 for the 2nd semester and final written exam in the form of MCQ, matching item, interpretive type of exercise. The final clinical examination will be given at the end of the year which includes slide clinical exam.
### Types of written exam of the clinical Module

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<thead>
<tr>
<th>Exam Type</th>
<th>Format</th>
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<tbody>
<tr>
<td>Quiz 1 (written)</td>
<td>Short MCQs, matching item and interpretive exercise</td>
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<tr>
<td>Quiz 2 (written)</td>
<td>Short MCQs, matching item and interpretive exercise</td>
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<tr>
<td>Midyear exam (written)</td>
<td>Short MCQs, matching item and interpretive exercise</td>
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<tr>
<td>Final exam (written)</td>
<td>Short MCQs, matching item and interpretive exercise</td>
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<tr>
<td>Clinical exam</td>
<td>Perform procedure on patient</td>
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<tr>
<td>Slide exam</td>
<td>Short MCQs, matching items on clinical slides</td>
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