



King Saud University, College of Dentistry
Department of Pediatric Dentistry and Orthodontics
Division of Pediatric Dentistry
2018-2019G [1439-1440]

493 POS
Clinical Pediatric Dentistry II

Wednesday, 2:00 – 5:00 pm [BUC]

Course Director: Dr. Ayman Sulimany [BUC]
Email: asulimany@ksu.edu.sa
a.sulimany@windowslive.com

Course Contributors:

Prof. Alshalan
Prof. Salama
Prof. Alkhadra
Dr. Alsehaibany
Dr. Bawazir
Dr. Almajed
Dr. Almahdy
Dr. Aldhubaiban
Dr. Binsaleh
Dr. Alahmad
Dr. Alghamdi
Dr. Shamrani

Course Number: 493
Course Code : POS
Credit Hour: Two (2) Credit Hours
Pre-requisite Course: 413 POS
Location in the Curriculum: Fifth Year

Required Textbooks/Reading:

- Pediatric Dentistry: Infancy through Adolescence By: Paul S. Casamassimo, Henry W. Fields, Dennis J. McTigue, Arthur Nowak 5th Edition, 2013, St, Louis: MO. Elsevier Health Sciences, 2013
- Pediatric Dentistry at a Glance. By: Monty Duggal 1st Edition, 2013, John Wiley & Sons Ltd.
- Dentistry for the Child and Adolescent. By: Ralph E. McDonald 9th Edition, 2011, Mosby Co., Inc.
- The American Academy of Pediatric Dentistry Guidelines

Assigned Reading:

Different published articles and guidelines

Methods of Communications:

Learning Management System (Blackboard),
google drive, dropbox and emails

Course Description:

This is the final clinical course in pediatric dentistry. The course consists of one clinical training session of 3 hours per week for the whole academic year. The students are required to provide comprehensive dental treatment for children age 3 to 8 years presenting with a wide range of dental problems. Emphasis of the course will be on patient education and management, diagnosis, treatment planning, prevention of dental disease, restorative procedures, pulp therapy and space management.

After completing the clinical training, the students should be competent to *perform and understand the reasons for performing* the following:

1. Communication skills with the dental team, patient and the guardian of the child.
2. Evaluate the patient's need for behavior guidance and modification.
3. Apply different behavior modification techniques learned.
4. Discuss with the parents different approaches for the prevention of dental disease.
5. Teach and motivate patients in oral hygiene techniques according to their age.
6. Formulate a treatment plan by using:
 - proper diagnostic methods (clinical and radiographic assessments)
 - caries risk assessment
 - Diet analysis
7. Inform the parents about the nature of the proposed treatment, the anticipated results of the proposed treatment, the possible alternative forms of treatment, and any recognized benefits, risks and complications of the proposed treatment and of alternative forms of treatment, including non-treatment
8. Efficiently administer local anesthesia.
9. Use rubber dam properly.
10. Restore primary teeth using different materials available.
11. Use several clinical procedures available for pulp therapy.
12. Perform dental extraction in primary teeth.

13. Effectively manage cases of premature primary tooth/teeth loss.
14. Manage dental trauma in children.
15. Recognize and manage/refer special needs individuals.
16. Proper documentation

Clinical Course Outline:

1. Introduction of the child to the dental environment.
2. Guidance of the child behavior (Psychological).
3. Treatment strategies of caries in children.
4. Pulp therapy.
5. Stainless steel crown restorations.
6. Dental extraction.
7. Space management.
8. Management of patients with:
 - a. Traumatized primary teeth and immature permanent anterior teeth.
 - b. Oral and skin manifestations of infectious diseases.
 - c. Periodontal diseases.
 - d. Systemic diseases.
 - e. Different medical conditions.

Course Requirements:

The following are the minimum and maximum clinical requirements:

	Procedure	Minimum	Maximum
1	Comprehensive Treatment Plans	One	Two
2	Fissure sealant	Three	Four
3	Single surface restoration	Two	Three
4	Two surface restoration or more	One	Two
5	Pulp Therapy	Three	Four
6	Full crown coverage	Three	Four
7	Extraction	One	Two
8	Space Maintainers	One	Two
9	Recall Appointment	One	Two
10	Finished cases	One	Two

Evaluation/Grading

Marks/grade will be numerical (not letters) out of 10 for ALL **GRADES**. The following table show each mark and equal letter.

Grade	Equal Letter	Grade	Equal Letter
10	A+	7.5	C+
9	A	7	C
8.5	B+	6.5	D+
8	B	6	D
Less than 6	FAILURE	-----	-----

Course Evaluation/Grading: Total Grade (100)

Students are evaluated in three areas:

1. Clinical Evaluation	60%
2. Written Clinical Examinations and Case Scenarios	30%
3. Competency Examination	10%

1. Clinical Evaluation (60%)

FAILURE TO SATISFY COURSE REQUIREMENTS AND CLINICAL EVALUATION WILL LEAD TO FAILURE OF THE COURSE

Students will be evaluated on weekly basis in the following manner:

1a. Quality of Work – (35%)

Several instructors are assigned for this course. Each instructor will work with a group of students for several weeks, and then rotate with other groups. The final grade for the quality of work will be calculated by averaging the grades given by all the instructors. The following competencies will be assessed:

a. Professionalism (5%)

The evaluation for the professionalism will include attendance, patient's booking, punctuality, neatness, professional attitude and communication skills and rapport with the instructors and patients/parents.

b. Knowledge (5%)

This will assess the level of knowledge the student has on the clinical procedure he is performing or other topics before starting the planned clinical procedures.

c. **Clinical performance (25%)**

The evaluation for the clinical performance will include infection control, behavioral management techniques used with the patients, time management, prevention and diet counselling on weekly basis and accomplishment of the clinical procedure assigned with minimal to no help from the instructor.

1b. Effort – (25%)

The evaluation for the effort will depend on satisfying the maximum course clinical requirements.

2. Written Examination– (30%)

Two written clinical case scenarios and slide examinations (15% each) will be conducted in each semester to test the knowledge and understanding as well as critical thinking of the students.

2a. First Exam will include the following topics:

1. Space management.
2. Oral and skin manifestation of infectious diseases.
3. Periodontal diseases.
4. Children with special care needs

Examination Date will be on week 8

2b. Second Exam will include the following topics:

1. Guidance of the child behavior (behavioral approach).
2. Pulp therapy.
3. Stainless steel crown preparation and restoration.
4. Caries in children and treatment strategies.
5. Trauma in primary and immature permanent anterior teeth.

Examination Date will be on week 22

2c. Clinical case scenario:

A clinical case-based scenario will be included in each written exam. The student will answer questions related to formulation of an appropriate diagnosis and treatment plan. This question will emphasize critical thinking and total patient care.

3. Competency Clinical Exam – (10%)

1. **The procedure:** Pulpotomy procedure in a primary molar. The selection of the tooth as well as all required steps will be available for all students and instructors in a separate document.

There will be **prerequisites before starting** the competency exam as well as a **time frame for the competency exam**. Student will have the opportunity to perform the exam after completing 2 pulpotomy requirements, and they will have a deadline until the 10th week of the second semester. If a student was not able to perform the exam during this time frame, he can do the exam later but will be **evaluated out of 8** instead of 10.

Students' Responsibilities:

1. Arrange appointment for patients and have it recorded in the booking system. Each student **MUST** make every effort to have one patient for each clinical session.
2. Make sure that the patient attends the appointment by reconfirming the appointment with parents one day before the clinical session.
3. If the booked patient is unable to attend, book another patient. In case of any problem, inform your course director for an alternate arrangement.
4. Each student is required to prepare his log book before starting each session.
5. Before starting each session, knowledge of each student will be assessed. Questions could be related to the planned procedures or other topics. If the student did not pass the knowledge assessment, he must review the answer with his instructor and his knowledge grade will be reduced according to the judgement of the instructor.
6. Each student who completes the minimum clinical requirements will get 60% of the assigned grade while each student who completes the maximum clinical requirements will get 100% of the assigned grade.
7. Completion of maximum clinical requirements **DOES NOT** excuse any student from seeing more patients as his grade for quality of work will be zero for each session he does not work.
8. If your patient fails to come, you are responsible for finding an additional patient to treat or find a child who came with his parent and is not assigned to a student to offer them oral hygiene instructions and topical fluoride if needed.
9. If no patient is to be found, you must inform your supervisor, who will assign you to assist another student. A grade of 7/10 will be given in the quality of work.
10. As we are using the electronic record SALUD, each student **MUST** have the treatment plan authorized in SALUD, as a maximum one week after completing the treatment plan, if the student failed to do so, the treatment plan will not be counted as a requirement. The student **MUST** keep a hardcopy of the **SIGNED** treatment plan with him during each dental clinic session. Failing to do so, will result in a failing grade for this session.
11. Students are expected to be in the clinic **ON TIME**. Each contributor will report students who are late to the course director immediately and the student's grade of professionalism will be affected.

12. Any student who is unable to attend the clinic **MUST**:
 - a. Cancel his patient(s) appointment.
 - b. Inform the course director at least **ONE** day before the session.
 - c. Write a letter to the course director explaining the reason behind his absence.
IF THE REASON IS NOT ACCEBTABLE THE STUDENT WILL BE CONSIDERED ABSENT.
 - d. Notify the booking area and give details of new or next appointment.
 - e. It is the responsibility of the student to follow the steps listed above. Any student who fails to do so will be regarded as **ABSENT** without excuse and will be given an **(F)** grade in that session.
13. **Never leave your patient unattended (alone) in the operatory.**
14. Students are not allowed to see or treat adult patients during the clinic hours of this course.
15. Each student **must** make sure the evaluation sheet at the end of the session is given to the **instructor**; failure to do that will result in not counting the requirement done.
16. If the student fails to get the approval (authorization) for the treatment plan in two sessions, the treatment plan will not be counted.

Clinic Policy:

The student is required to observe the following protocol:

First Visit:

1. Record patient's personal data, medical and dental history.
2. Introduce the child to the clinic. Apply the Tell Show and Do technique.
3. Examine the child and record his findings.
4. Take necessary radiographs **after supervisor approval**.
5. Formulate a treatment plan on a separate sheet of paper.
6. Present treatment plan to your instructor. When approved, revise the treatment plan on the electronic record. Each student **MUST** keep a **hardcopy** of **SIGNED** treatment plan with him during each dental clinic session. Fail to do so, will result in failing grade for this session.
7. Make sure to obtain your instructor's approval and signature on all requires documents.
8. Make sure that the parent/guardian fill and signs the personal information and medical history as well as all requires documents.
9. Give oral hygiene instruction – If time allows, prophylaxis and fluoride application should be completed.

Second Visit:

1. Proceed with treatment as planned.
2. At each visit, first ten minutes should be spent in teaching the patient the proper way of brushing and to emphasize the instructions of oral hygiene.
3. If the patient has extensive caries or large cavities in two quadrants or more, gross excavation of caries should be done followed by temporary filling application.

Summary of Grades

