

**PEDO 6146  
PEDIATRIC DENTISTRY V**

**SPRING 2018**

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**CLASS DAYS and TIME:** Mondays 8:00 a.m. – 12:00 p.m. & Fridays 1:00 p.m. – 5:00 p.m.

**CLASSROOM:** COHCR 4067

**COURSE FACULTY:** Dr. Jeff Mabry, Dr. Claudia Contreras, Dr. Alexis Liu, Dr. Alexander Olea, Dr. Minerva Garcia, Dr. Elva Jordan

**READ THIS DOCUMENT CAREFULLY - YOU ARE RESPONSIBLE FOR ITS CONTENTS.**

**COURSE DESCRIPTION AND OBJECTIVES**

Pediatric Dentistry V consists of the following individual courses:

- Pediatric Outpatient Sedation
- Pediatric Pulp Therapy
- Hospital Dentistry
- Behavior Management
- Practice Management/Ethics
- Case Presentations
- Literature Review
- Pediatric Grand Rounds
- Craniofacial Clinic Rotation
- Teaching Clinic Rotation

**LEARNING OBJECTIVES:**

Learning Objectives and other information for each individual course will be attached to this document.

**Semester credit hours** – 5 credit hours

**ATTENDANCE:** Required

**REQUESTS FOR ACCOMODATIONS FOR DISABILITIES**

In accordance with policy 4.2.3, **Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA)**, any student requesting accommodation must submit the appropriate request for accommodation under the American with Disabilities Act (ADA, form 100). to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at <http://uthscsa.edu/eoo/request.asp>.

**ACADEMIC INTEGRITY AND PROFESSIONALISM**

Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT System Rules and Regulations of the Board of Regents. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at <http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/>

## **TITLE IX AT UTHSCSA**

### **Title IX Defined:**

Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads “no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.”

### **University of Texas Health Science Center San Antonio’s Commitment:**

University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567-2800. Additional information may be obtained at <http://students.uthscsa.edu/titleix/>

### Course: Sedation for Pediatric Dentistry (Spring 2018)

Directors: C. Isabel Contreras, DDS and Alex Olea, DDS and Minerva Garcia, DDS

Location: 4067 COHCR conference room for San Antonio Residents

2.100.06 Regional Campus for Laredo Residents

**Time: Mondays 9:00-9:50 am**

Date	Topic	Speaker
January 22	Sedation Introduction/Overview & Patient Assessment	Garcia & Contreras
January 29	Need for sedation, AAPD Guidelines & Nitrous Oxide/Local Anesthetics, Texas State Board Rules	Contreras
February 5	Sedation Meds I: Sedative hypnotics & Anti-Anxiety agents	Contreras
February 12	Sedation Meds II: Hypnotics, Narcotics	Olea
February 26	Sedation Routes: IV,SQ,IN Pediatric Sedations	Olea
March 19	Sedation Emergencies	Olea
March 26	Sedation for the Medically Compromised Child	Contreras/Garcia
April 9	Sedation for Medically Compromised Child (continued)	Contreras/Garcia
April 16	<b>Resident Performance- video tapings &amp; Conclusions</b>	Contreras & Olea
April 23	Final Exam (tentative- or may keep final exam to 4/30/18)	Contreras & Olea
April 30	<b>Resident Performance- of final of exam (or more video tapings)</b>	(if we have this class or keep final for this day)

#### Sedation Course Goals

- Describe and discuss guidelines associated with the sedation of pediatric patients.
- Review the pediatric anatomy and physiology of the respiratory, cardiovascular, and central nervous system related to oral sedation.
- Describe the appropriate physical assessment of the pediatric patient including risk assessment.
- Describe and choose the appropriate monitoring and monitoring equipment.
- Describe the pharmacological effects of sedative agents used in pediatric sedations.
- Discuss the advantages and disadvantages of the different modes of sedation.
- Discuss the complications associated with oral sedation of the pediatric patient.
- Discuss the prevention, recognition, and management of possible complications and emergencies associated with sedation

#### Course Format:

- 9 Sessions of lectures: literature review, chapter readings, quizzes and resident performance videos and final exam.

#### Grade:

- 100 -90.00= A
- 89.99 -80.00= B
- 79.99-75.00= C

**Must achieve at least 75%**

# Pediatric Pulp Therapy

Course Director: Dr. Jungyi Alexis Liu  
Contact Information: 210-567-3551 (office)  
liuja@uthscsa.edu

Post-Doctoral Pediatric Dentistry Program  
Spring Semester (January-April 2018)

Place: COHCR 4067

Time: Mondays 11:00 am ---11:50 am

	Date	Topic	Faculty
1	01/22	Biology of dentin-pulp complex Pulpal reactions to caries Pulp status assessment and diagnosis	Dr. Ruparel
2	01/29	Vital pulp therapy in permanent teeth/ Pulp consideration of dental trauma	Dr. Ruparel
3	02/05	Regenerative endodontics	Dr. Diogenes
4	02/12	Vital pulp therapy in primary teeth- IPT and DPC	Liu
5	02/26	Vital pulp therapy in primary teeth- pulpotomy I	Liu
6	03/19	Vital pulp therapy in primary teeth- pulpotomy II	Liu
7	03/26	Nonvital pulp therapy in primary teeth-pulpectomy	Liu
8	04/09	Literature discussion	Liu
9	04/16	Literature discussion	Liu
10	04/23	Final	
11	04/30	No class	

# HOSPITAL DENTISTRY

## Spring, 2018

Postdoctoral Program – Pediatric Dentistry  
Course Director – Dr. Jeff Mabry  
Contact Information: (210) 567-0146 (office)  
Email: [mabryj2@uthscsa.edu](mailto:mabryj2@uthscsa.edu)

**Time: Monday 8:00AM – 8:50 AM**  
**Location: Conference Room (COHCR 4067)**

### GOALS AND OBJECTIVES:

- 1.) The advanced education student will be able to make a differential diagnosis of medically compromised patients and have an in depth understanding of special considerations that need to be implemented when treating these compromised patients.
- 2.) The advanced education student will understand hospital protocol and the appropriate protocol for obtaining consultations or providing consultations.

### TOPICS COVERED IN FORMAL INSTRUCTION:

The Hospital Dentistry course is a four part (four semester) course that provides didactic in depth instruction in diseases that compromise patients and require special considerations when providing care. These compromised conditions include heart diseases, autoimmune diseases, viral diseases, congenital diseases, trauma induced compromised health, bleeding disorders and other systemic diseases. The course is designed to recognize specific diseases through thorough diagnostic technique and medical history review, then treat these patients appropriately with special considerations that may be necessary due to their disease status.

### Postdoctoral Program – Pediatric Dentistry

<u>DATE/TIME</u>	<u>TOPIC</u>	<u>FACULTY</u>
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Monday, Jan 22 @ 0800-0850	Hospital Dentistry Pearls	Dr. Jeff Mabry (Pediatric Dentistry)
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Monday, Jan 29 @ 0800-0850	MRSA	Dr. Cantey (Peds Infectious Diseases)
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Monday, Feb 5 @ 0800-0850	Hospital Dentistry Pearls	Dr. Jeff Mabry (Pediatric Dentistry)
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Monday, Feb 12 @ 0800-0850	Pediatric Brain Tumors	Drs. Maida and George (Pediatric Oncology)
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Assignment: 2015 Board Reading List; Special Care Special Patients #9; da Fonseca, M.A. Dental care in the pediatric cancer patient. *Pediatr Dent* (2004) 26(1): 53-57.

Monday, Feb 26 @ 0800-0850	Ped. Anesthesia/MH	Dr. Debbie Rasch (Pediatric Anesthesia)
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**Behavior Guidance for the Pediatric Dental Patient**  
**Course Director - Dr. Jordan**  
**Friday 1:15-2:05**  
**Spring 2018**

January 12 - AAPD Best Practices: Behavior Guidance for the Pediatric Dental Patient  
January 19 - Theories of Child Development  
January 26 - Emotional and Social Development in Infancy and Toddlerhood  
February 9 - Emotional and Social Development in Early Childhood  
February 23 - Emotional and Social Development in Middle Childhood  
March 9 - Language and Relationship to Dentistry  
March 23 - Assessment of Child's Behavior in Dental Setting  
April 6 - Basic Behavior Guidance  
April 13 - Advanced Behavior Guidance  
April 20 - Attitudes of Parents Toward Behavior Guidance Techniques

#### COURSE OBJECTIVES

This course will consist of one-hour lecture/seminar sessions. Background reading will be included in many of the seminars, and these materials will be distributed at least one week in advance for proper preparation.

This course is specifically designed to aid the course participant in preparations for the Qualifying Examination (Part 1) of the American Board of Pediatric Dentistry.

#### PERFORMANCE EVALUATION

Academic performance in this course shall be measured by the following methods:

**1. Attendance (10%)**

Attendance at all seminar sessions is mandatory. Any and all absences must be approved by the course director.

**2. Participation (10%)**

It is expected that all course participants shall be adequately prepared for each seminar session, having reviewed assigned background reading materials.

**3. Daily Quizzes (80%)**

Daily quizzes shall be undertaken by all course participants at the beginning of each lecture. The format of the quizzes will be announced by the course director during the course introduction. A passing grade is 80%. The two lowest quiz grades will be dropped. There will be no final exam.

**4. Remediation**

Should a student receive a failing grade, remediation will be designed by the Course Director.

# Practice Management

Course Director: Dr. Al Burns

Contact Information: [dralburns@gmail.com](mailto:dralburns@gmail.com)

Location: COHCR 4067

## Goals and Objectives:

The course is intended to:

- 1.) Provide the opportunity to analyze the decision to enter private practice.
- 2.) Present a variety of options for handling professional/business aspects of a practice.
- 3.) Aid in transition from the advanced education program to private practice.
- 4.) Prepare students to prepare for loan applications.
- 5.) Prepare student to understand types of professional, business and personal insurance.
- 6.) Understand appointment management considerations of scheduling patients.
- 7.) Expose to efficiency in practice through office design, traffic flow, and computerization.
- 8.) Present marketing models for a private practice.

## TOPICS COVERED IN FORMAL INSTRUCTION:

This seminar and practice visitation course is presented in an informal manner to generate considerable discussion on the complex issues involved in opening and operating a modern pediatric dental practice.

Topics of discussion include:

- 1.) Business and practice structures
- 2.) Agencies affecting dentistry
- 3.) Management basics
- 4.) Financial statements
- 5.) Borrowing money
- 6.) Start-up and operating costs
- 7.) Lease agreements
- 8.) Associate agreements
- 9.) Purchase agreements
- 10.) Marketing concepts



# **Case Conference/Presentation**

**Course Director: Faculty Rotation**

**Time: Fridays 1:15 – 2:05 p.m.**

**Location: COHCR 4067**

## **GOALS AND OBJECTIVES:**

- 1.) Each advanced education student will present treatment cases involving pediatric dental care with full documentation for either pretreatment diagnosis and treatment planning, in progress special considerations, or post-treatment review and critique.
- 2.) Each advanced education student will gain an in-depth understanding of special patient considerations, including multidiscipline care in the practice of pediatric dentistry.
- 3.) Each advanced education student will be able to present and discuss topics related to pediatric dentistry.

## **TOPICS COVERED IN FORMAL INSTRUCTION:**

On a weekly basis, the fall and spring semesters of both years of the program, advanced education students present treatment cases involving pediatric dental care with full documentation for either pretreatment diagnosis and treatment planning, in progress special considerations, or posttreatment review and critique. The presentations serve as a focus for in-depth discussion of the issues raised by the case with advanced education student and faculty input. Each presentation is supported by appropriate complete records documentation, diagnostic radiographs, and a thorough review of background information to ensure the careful analysis of the case presented. The types of cases typically fall into the following categories:

- 1.) Complex restorative, surgical, periodontal, trauma, or pulp therapy cases.
- 2.) Patients with compromising medical, mental, physical, or developmental condition requiring special attention.
- 3.) Patients with challenging behavioral management considerations requiring pharmacologic aids or other special management techniques.
- 4.) Patients required for OR-general anesthesia admission to provide dental care.

# **Literature Review**

## **Course Director: Faculty Rotation**

**Time: Fridays 2:15 – 3:05 p.m.**

**Location: COHCR 4067**

### **GOALS AND OBJECTIVES:**

Upon completion of this course the advanced education student:

- 1.) Will have improved the ability to review, evaluate, critique and determine the clinical application of the dental literature.
- 2.) Will have become familiar with a broad base of original literature to which past and future articles may be related in a scientific manner.
- 3.) Will have reviewed and evaluated a broad spectrum of research protocols; materials and methods, and statistical designs.
- 4.) Will have kept abreast with pertinent current literature.
- 5.) Will have read the American Board of Pediatric Dentistry reading list in preparation to take the written portion of the examination.

### **TOPICS COVERED IN FORMAL INSTRUCTION:**

This four part (four semesters) course requires that each advanced education student read and be ready to discuss assigned articles from the most recent American Board of Pediatric Dentistry reading lists as well as chosen current and classic literature pertinent to pediatric dentistry. The major intent of the course is to develop the student's ability to evaluate the literature critically and determine the clinical application of the dental literature. The major subject areas include behavior management, growth and development, restorative dentistry, prosthodontics, pulp therapy, dental anatomy, dental materials, orthodontics, oral pathology, oral medicine, hospital dentistry, special patients, and preventive dentistry.

Articles assigned for each session are required to be read by each student - by random selection a student is chosen to report on an article, discuss the strengths and weaknesses of the article, the major findings and their relationship to similar articles, and possible clinical implications of the findings.

# **Pediatric Grand Rounds**

## **Course Director: Faculty Rotation**

**Time: TBD**

**Location: TBD**

### **GOALS AND OBJECTIVES:**

- 1.) To provide an interesting and informative update on current topics in the care of infants, children and adolescents.
- 2.) The advanced education student will:
  - a) Learn and appreciate advances in medicine and dentistry.
  - b) Regularly attend lectures that may relate directly or indirectly to the specialty.
  - c) See various research methods, applications, and analysis of data.
  - d) Find information that might be used to further research in Pediatric Dentistry.

### **TOPICS COVERED IN FORMAL INSTRUCTION :**

Pediatric Grand Rounds is a series of one-hour lectures provided by the Department of Pediatrics of UTHSCSA by faculty and distinguished guest speakers who present topics of current interest. The rounds are selectively attended by Pediatric Dentistry students depending on topics of interest to the management of children in a dental context. Others attending the Grand Rounds include medical students, Pediatric residents, university faculty, and community doctors.

## **Craniofacial Clinic Rotation**

**Course Director: Dr. Maria Jose Cervantes Mendez & Dr. Alexis Liu**

**Contact Information: Dr. Cervantes (210) 450-3514 [cervantesmen@uthscsa.edu](mailto:cervantesmen@uthscsa.edu)**

**Dr. Liu (210) 567-3551 [liuja@uthscsa.edu](mailto:liuja@uthscsa.edu)**

**Time: 3<sup>rd</sup> Tuesday of the month**

**Location: Children's Hospital of San Antonio**

### **GOALS AND OBJECTIVES:**

Each advanced education student will:

- 1.) Be exposed to a wide variety of special patients that have craniofacial abnormalities, including cleft lip and palate patients and patients with diagnosed syndromes.
- 2.) Learn to interact and communicate with various health care specialists involved with the Craniofacial Anomalies Team.
- 3.) Improve communication skills with patients and parents.
- 4.) Learn to present dental treatment plans to an interdisciplinary team.
- 5.) Learn general medical considerations in the treatment of craniofacial abnormalities.
- 6.) Learn the implications of dental treatment plans upon the consensus treatment plan proposed by the craniofacial team.
- 7.) Become more acquainted with normal and abnormal growth and development in cleft palate and other craniofacial patients.

### **TOPICS COVERED IN FORMAL INSTRUCTION:**

The Craniofacial Anomalies Clinic is scheduled on a monthly basis in a three-hour clinic session. The patients are evaluated by a number of clinical disciplines which include Plastic Surgery, ENT, Oral Surgery, Speech, Pediatrics, Craniofacial Genetics, Pediatric Dentistry, and Orthodontics. The Team structure allows a multi-disciplinary approach to monitor the condition, progress, and future treatment recommendations for the patients of the clinic. At the end of each clinic session, the team meets for a one to two hour session to develop a comprehensive treatment plan with both short and long-term recommendations. On a rotating basis, pediatric dentistry advanced education students accompany various Team disciplines in patient evaluations and attend the Team meeting.

# **Clinical Teaching**

## **Course Director: Faculty Rotation**

**Time: Weekly, one-half day**

**Location: PEDO Clinic**

### **GOALS AND OBJECTIVES:**

The advanced education student will be able to:

- 1.) Be competent in teaching predoctoral dental students in clinical pediatric dentistry.
- 2.) Be competent in making and justifying decisions on care to fellow clinicians.
- 3.) Develop increased responsibility and ability in making decisions and accomplishing goals.
- 4.) Promote individual learning by reviewing concepts, explaining procedures, and demonstrating techniques.

### **TOPICS COVERED IN FORMAL INSTRUCTION:**

Teaching experience is an excellent opportunity to develop responsibility and promote learning of pediatric dentistry, educational, and interpersonal relationships. During the second year of the program, each advanced education student will be assigned to approximately three clinic sessions per month of the predoctoral pediatric dentistry clinics to serve as a clinical attending to predoctoral dental students. A faculty member will always be assigned to the clinic session with the advanced education student for advise and overall responsibility.

The clinical teaching provides the advanced education student an opportunity to gain practical experience in teaching pediatric dentistry to predoctoral students and in making and justifying decisions.

Through teaching experience the advanced education student should develop increased responsibility and ability in making decisions and promote individual learning by reviewing concepts, explaining procedures, and demonstrating techniques. Likewise, the advanced education student can gain an appreciation and understanding of teaching.