

## UTHSCSA SCHOOL OF DENTISTRY

<b>COURSE TITLE:</b>	Pharmacotherapeutics
<b>COURSE NUMBER:</b>	INTD 6019
<b>DEPARTMENT:</b>	Interdisciplinary
<b>SEQUENCE YEAR:</b>	Graduate students
<b>CLOCK HOURS:</b>	8
<b>CREDIT HOURS:</b>	1
<b>COURSE DIRECTOR:</b>	David Ojeda Diaz, DDS. ojedadiaz@uthscsa.edu
<b>EXECUTIVE DIRECTOR:</b>	Brian L. Mealey, DDS. MS mealey@uthscsa.edu
<b>COORDINATOR:</b>	Shirley Kraft krafts@uthscsa.edu

### **COURSE DESCRIPTION:**

This course is designed to (1) review general principles of pharmacology, (2) provide evidence-based information on the therapeutic application of agents prescribed by oral healthcare providers, and (3) discuss the rationale for and clinical implications of other therapeutic agents prescribed to patients by other healthcare providers. Emphasis is placed on critical thinking in discussing the reciprocal influences of drug-, patient-, and procedure-related variable.

### **COURSE GOALS:**

To provide an evidence-based framework for the use of therapeutic agents for the treatment or management of oral problems; to understand the clinical implications of medical drug therapy; and to provide residents with the knowledge essential to interpret pharmacological parameters as they relate to a patient's ability to undergo and respond to dental care.

### **COURSE OBJECTIVES:**

At the conclusion of the course, residents will be able to:

1. Demonstrate an understanding of general principles of pharmacotherapy as they apply to ethical decision making and professional responsibility related to prescribing drugs.
2. Demonstrate an understanding of the components and legal implications of writing a prescription, and be able to produce acceptable prescriptions for a variety of drugs.
3. Demonstrate an understanding of drugs of abuse and associated legal and regulatory standards when prescribing drugs with an abuse potential.
4. Demonstrate an understanding of basic mechanisms of intraoperative pain and pharmacology of local anesthetics; select the most appropriate local anesthetic to

- manage intraoperative pain; and discuss potential ADEs associated with local anesthetics.
5. Demonstrate an understanding of basic mechanisms of acute pain and pharmacology of analgesics; select the most appropriate analgesic to treat acute odontogenic pain; and discuss potential ADEs associated with analgesic therapy.
  6. Demonstrate an understanding of the microbiology of odontogenic infections and pharmacology of antibacterial agents; select the most appropriate adjunctive and prophylactic antibacterial agent; and discuss potential ADEs associated with antibacterial therapy.
  7. Demonstrate an understanding of the microbiology of viral infections and pharmacology of antiviral agents; select the most appropriate antiviral agent for a specific infection; and discuss potential ADEs associated with antiviral therapy.
  8. Demonstrate an understanding of the microbiology of fungal infections and pharmacology of antifungal agents; select the most appropriate antifungal agent for a specific infection; and discuss potential ADEs associated with antifungal therapy.
  9. Demonstrate an understanding of basic mechanisms of organ-specific diseases; the pharmacology of and indications for the top 200 prescription drugs; and disease-, treatment-, and procedure-related variables essential for risk stratification of patients.

**COURSE FORMAT:**

Seminars incorporating clinical examples and web-based learning.

**PREREQUISITE:**

Residency status in one of the dental specialties/disciplines and the completion of the following online courses:

<b>MODULE</b>	<b>TOPIC</b>
1	<a href="#"><u>GENERAL PRINCIPLES OF PHARMAOCLOGY</u></a>
2	<a href="#"><u>PHARMACOLOGY OF LOCAL ANESTHETICS: CLINICAL IMPLICATIONS</u></a>
3	<a href="#"><u>EPINEPHRINE: FRIEND OR FOE?</u></a>
4	<a href="#"><u>PHARMACOLOGY OF ANALGESICS: CLINICAL IMPLICATIONS.</u></a>
5	<a href="#"><u>ADJUNCTIVE AND PROPHYLACTIC USE OF ANTIBACTERIAL AGENTS IN DENTISTRY.</u></a>
6	<a href="#"><u>PHARMACOLOGY OF ANTIFUNGAL AND ANTIVIRAL AGENTS.</u></a>

7	<a href="#"><u>PHARMACOLOGY OF SELECTED THERAPEUTICS AGENTS IN ORAL MEDICINE</u></a>
8	<a href="#"><u>CARDIOVASCULAR DRUGS OUR PATIENTS TAKE.</u></a>
9	<a href="#"><u>ENDOCRINE AND METABOLIC AGENTS IN THE TOP 200: CLINICAL IMPLICATIONS.</u></a>
10	<a href="#"><u>CNS DRUGS IN THE TOP 200: CLINICAL IMPLICATIONS.</u></a>
11	<a href="#"><u>RESPIRATORY, GASTROINTESTINAL, UROGENITAL, AND MISCELLANEOUS DRUGS IN THE TOP 200: CLINICAL IMPLICATIONS.</u></a>
12	<a href="#"><u>ADVERSE DRUG REACTIONS: PART I.</u></a>
13	<a href="#"><u>ADVERSE DRUG REACTIONS: PART II.</u></a>

**OUTCOME ASSESSMENT/GRADE SCALE:**

Outcome is based on the resident’s active participation in discussions during seminars based on which the Course Director will assign a Pass/Fail grade.

**COURSE DEFICIENCY POLICY & REMEDIATION PLAN:**

In case of a “Fail” grade, remediation plans are developed on an individual basis, and must be approved by the Course Director and the appropriate Graduate Program Director.

**ATTENDANCE POLICY:**

Attendance in class is expected. Failure to attend seminars will not warrant reasonable cause for remediation.

**CLASS REQUIRED EDUCATIONAL MATERIAL:**

PDF of course modules 1- 13 available online at dentalcare.com (see Prerequisites)

**SCHEDULE (2019):**

Date	Time	Modules
Fri – Oct 25th	8:00-17:00	1 to 13