Course Number and Name: Pharmacology 4015

Course Type: Lecture Laboratory Clinical Seminar Selective

Academic Year/Semester Offered: 2016--2017 Fall Spring Summer Session

Course Director: Celeste M. Abraham, BS, DDS, MS.

Other Participating Faculty: None

Course Description: Actions, indications, and contraindications of drugs; emphasis on drugs frequently encountered in dentistry.

Course Objectives:
At the conclusion of the course the student will be able to:
1. identify pharmaceutical agents commonly used by dental hygienists and dentists
2. discuss the use and pharmacologic effects of drugs commonly used in the dental office
3. contrast and compare the routes of administration and the means of absorption and elimination of drugs commonly used in the dental office
4. list the classification of drugs and name commonly used brand and generic names in each category of pharmacologic agents prescribed by physicians
5. list drugs commonly prescribed by physicians which may alter the treatment of the dental patient
6. differentiate signs and symptoms of adverse drug reactions
7. identify the parts and explain the contents of each part of a prescription
8. identify drugs that patients take for medical conditions and understand their basic pharmacology and the rationale for using the specific drug
9. Identify drugs that patients take for medical conditions and understand their potential adverse effects and drug interactions.

For each assigned chapter, there are learning objectives in the form of chapter summary questions under the section entitled Clinical Skills Assessment

Learning Outcomes/Competencies:
1.2 Comply with state and federal laws governing the practice of dentistry and dental hygiene.
2.1 Apply critical thinking skills and evidence based decision making to the practice of dental hygiene.
2.2 Commit to self-assessment and lifelong learning in order to provide contemporary clinical care.
6.1 Determine medical conditions that require special precautions or consideration prior to or during dental hygiene treatment.
6.2 Perform an extraoral and intraoral examination of the patient including assessment of vital signs and radiographic examination, and distinguish normal from abnormal findings.
6.3 Manage the patient at risk for a medical emergency, and be prepared to handle the emergency should it occur during an appointment.
6.4 Recognize predisposing, etiologic risk factors, and life style choices that may require intervention to prevent disease.
6.5 Analyze and interpret the assessment data to formulate a dental hygiene diagnosis related to and congruent with the diagnosis of the dentist and other health professionals.
6.6 Determine the need for referral to the appropriate health professional.
8.2 Control pain and anxiety during treatment through the use of accepted clinical techniques and appropriate behavioral management strategies.
8.3 Select and administer the appropriate preventive and/or antimicrobial (chemotherapeutic) agents and provide pre- and post-treatment instructions.

**Evaluation Criteria/Methods:**
The grading for the course will be based on the quizzes and the final exam.

**Quizzes:**
13 quizzes, based on the weekly lecture-discussion and the required text, are scheduled. No make-up quizzes will be allowed. Of the 13, the two lowest grades will be dropped. The remaining 11 quizzes will account for 70% of the final grade.

**Final Exam:**
A comprehensive, closed-book two-hour exam will be held as scheduled. The exam will be composed of multiple-choice and/or short-answer questions. This exam will account for 30% of the final grade.

**Grading Scale:**
A = 90-100  B = 80-89  C = 75-79  D = 70-74  F = <70

**Learning Materials:**
Applied Pharmacology for the Dental Hygienist by Elena Bablenis Haveles, 7th Edition, 2015. All text assignments are required reading. The textbook should be brought to each class session. Additional learning materials: Lecture Handouts and Journal Literature Readings.

**Remediation Policy:**
Students who fail the course will be allowed to remediate the course as directed self-study designed by the course director. To successfully complete the remediation, the student will be required to demonstrate acceptable (75% or better) comprehension of the total content of the original course as measured by examination.

**Attendance and Make-up Policy:**
Attendance is required. For university excused absences, refer to Student Rule 7 for detail. For an excused absence, a missed exam or assignment must be made up within (time frame) of the excused absence.

**Laboratory/Clinic Policies and Procedures:**
Not applicable

**Special Accommodation for Persons with Disabilities:**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Dr. Charles Berry, Associate Dean for Academic Affairs in charge of Disability Services, Room 514, or call 214 828 8208 for additional information.
Academic Integrity Statement and Policy:

“An Aggie does not lie, cheat or steal, or tolerate those who do.”

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the honor Code, to accept responsibility, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

Date prepared: 5/17/2016
<table>
<thead>
<tr>
<th>Date</th>
<th>Session Title/Topic</th>
<th>Instructor(s) L. Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 15</td>
<td>Information, Sources and Regulatory Agencies; Drug Action and Handling; Adverse Reactions; Prescription Writing/ Chapters 1-3</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>August 22</td>
<td>Autonomic Drugs/ Chapter 4/ Quiz #1</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>August 29</td>
<td>Nonopioid and Opioid Analgesics/Chapters 5-6 / Quiz #2</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>September 5</td>
<td>Labor Day Holiday: No Class</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>September 12</td>
<td>Antiinfective, Antiviral, and Antifungal Agents/Chapters 7-8/ Quiz #3</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>September 19</td>
<td>Antianxiety Agents/Chapter 11/ Quiz #4</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>September 26</td>
<td>Oral Conditions and Their Treatment/ Hygiene-Related Disorders</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td></td>
<td>Chapters 12-13/Quiz #5</td>
<td></td>
</tr>
<tr>
<td>October 3</td>
<td>Drugs for the Treatment of Cardiovascular Disease/ Chapter 14/ Quiz #6</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>October 10</td>
<td>Drugs for the Treatment of Gastrointestinal Disease/ Chapter 15/ Quiz #7</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>October 17</td>
<td>Drugs for the treatment of Seizure Disorders and Central Nervous System Disorders/ Chapters 16-17/ Quiz #8</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>October 24</td>
<td>Adrenocorticosteroids/ Drugs for the treatment of Respiratory Disorders</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td></td>
<td>Chapters 18-19/ Quiz #9</td>
<td></td>
</tr>
<tr>
<td>October 31</td>
<td>Drugs for the Treatment of Allergic Rhinitis/Drugs for the treatment of Diabetes Mellitus/ Chapters 20-21/ Quiz #10</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>November 7</td>
<td>Drugs for the treatment of other endocrine disorders/ Antineoplastic Drugs/ Chapters 22-23/ Quiz #11</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>November 14</td>
<td>Emergency Drugs/ Pregnancy and Breast Feeding/Chapters 24-25 Quiz #12</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>November 21</td>
<td>Fall Recess: No Class</td>
<td></td>
</tr>
<tr>
<td>November 28</td>
<td>Drug Abuse/ Chapter 26/ Quiz #13</td>
<td>Dr. Abraham</td>
</tr>
<tr>
<td>December 5</td>
<td>Final Examination</td>
<td>Dr. Abraham</td>
</tr>
</tbody>
</table>