Course Description:
This course is designed to deepen students’ ability in the assessment and management of medically complex patients. Using a case-based approach, students will independently assess the medical and dental aspects of selected patients, review medications, potential drug interactions and generate mock prescriptions to peers and faculty group leaders.

I. General Information

Course Director:
Course Director: Sarah G Fitzpatrick
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Phone: (352) 273-6686
Course Credits: 1
Semester: Spring

Contributing Faculty
John Neubert (352) 273-5687 JNEUBERT@dental.ufl.edu

Support Staff
Janie Berger (352) 273-6757 JBerger@dental.ufl.edu TA / Syllabus /
Grade Administrator

II. Course Goals
The purpose of this course is to deepen student's ability in patient assessment and management through advanced training in oral medicine and clinical pharmacology and communicating and collaborating with other health professionals.
III. Course Overview

This course is designed for students to build upon the foundation courses, DEN 6262, Pharmacology and DEN 6260 Oral Medicine, offered during the sophomore year and your clinical experiences in the junior year.

Teaching methodology: This course contains 2 parts each requiring different types of student engagement.

Part 1, in Canvas, is online (asynchronous) and requires students to self-regulate their learning by viewing the lecture presentations and completing the post assessment quizzes. The midterm exam covers the lectures, associated Power Points, and self-assessment quiz material.

Part 2, in Canvas, is seminar-based. Students are assigned to small groups and cases to review for group discussion. There is one case presentation assigned to each student.

There is a comprehensive final examination that contains material from all of the modules in the course.

At the initial session, the enrollment conference, a course overview including performance expectations and assessment criteria will be discussed. Next, asynchronous study assignments must be completed with all 8 quizzes completed at least one week before the midterm exam. The study assignments (PowerPoints, readings, and media-site lectures) can be viewed in Canvas. Student formative-assessment quizzes are posted in Canvas. These are required exercises, and will serve to assist students in confirming understanding of key information, and to enhance preparation for midterm and final exams.

The next 3 sessions will consist of the small group seminars. The class will be divided into four groups, consisting of approximately 23 students per group. Students will be provided their assigned discussion case at the beginning of the course, which will allow them ample time to analyze and review the case and prepare a PowerPoint presentation. At each session, 4-6 cases will be presented and discussed. Students should be prepared to actively participate in the case discussions. Students will be required to be in attendance for their assigned case presentation. (Attendance is recorded and a peer review of presentations will be assigned.) Students will be encouraged, but not required, to attend all seminar sessions as the case presentations are not recorded. The role of the student will be to think critically and actively engage themselves in research of the cases to develop a thorough understanding of the disease conditions, associated medications, drug interactions, and treatment considerations. Students will be challenged to apply that knowledge to develop appropriate patient-specific management strategies and prescriptions.

During the seminar sessions, each student will be required to present one case independently. For the required case presentation exercise, students will be evaluated on their ability to organize their presentation, communicate their understanding of the medical/dental issues to peers and faculty, and on their responses to the questions posed. Incorporating at least one relevant scientific dental literature into the presentation is required. The assessment form with
performance criteria is posted in Canvas. The PowerPoint presentation must be uploaded to Canvas within 1 week after the presentation.

The key responses for each case will be posted on Canvas after each seminar series is completed. These posted case discussions will be a significant component of material to be reviewed for the comprehensive final exam.

The anticipated course outcome will be enhanced knowledge in the medical assessment of patients including an understanding of the indications, contraindications, side effects and drug interactions frequently used medications. Students will improve their ability to prescribe appropriate medications.

IV. Course Outline

General components of lectures and case simulations include the following:
Patient assessment
Clinical indications for medications
Adverse drug reactions and drug interactions
Prescription writing for dental drugs used in clinical practice

Specific medical conditions and medication classes include the following:
Cardiovascular Conditions and Drugs for Medical Management
Cardiac glycosides
Antiarrhythmics
Antihypertensives
Diuretics
Coronary dilators
Anticoagulants/coagulants (Liver related)
Antihyperlipidemics

Autonomic System Drugs
Adrenergics – agonists and blockers
Cholinergics – agonists and blockers

Local anesthetics
Basic pharmacology/action
Types
Vasoconstrictors
Dose calculations and maximum safe dosages

Endocrine System Agents
Hormone replacements (thyroid and estrogen)
Anti-diabetic agents
Prednisone and Adrenal suppression
Pregnancy concerns

**Analgesics**
- Opioids
- Non-opioids, nonsteroidals

**Antibiotics**
- Penicillins, Macrolides, Clindamycin, Tetracyclines, Metronidazole
  (Includes AHA and Prosthetic joint premedication guidelines)

**Antiviral and antifungal agents**

**Herbals and Alternative medicine agents**

**Agents for bleeding disorders**

**Antihistamines (Asthma and COPD meds)**

**Antineoplastics and Immunosuppressants**
- Oncology management & Transplant management
- Autoimmune disorders such as Sjögren's, Lupus, Scleroderma, and Rheumatoid arthritis
  (Immuran, Cyclosporine, Methotrexate, Prednisone)

**Central Nervous System Agents**
- Sedatives – hypnotics
- Antianxiety
- Conscious sedation agents
- Anticonvulsants
- Psychotropics, antipsychotics
- Antidepressants

V. Course Material

**Required Materials:**
Books from DEN 6260 are same required texts for DEN 8263:
2. Little, Falace, Miller and Rhodus, Dental Management of the Medically Compromised Patient, 8th ed. or newer.

**Strongly Recommended:**

Database Application:
VI. Course Objectives

In this course students will:
- Review contemporary dental pharmacotherapeutics via lecture review and case analysis
- Review and analyze assigned cases,
- Participate in the case discussions,
- Research the disease conditions, associated medications, and treatment considerations,
- Apply decision making in appropriate patient-specific management strategies and prescriptions,
- Present one case independently,
- Incorporate relevant scientific dental literature into the case presentation,
- Generate/discuss medical consults, patient referrals as needed,
- Communicate their understanding of the medical/dental issues to peers and faculty,
- Utilize critical thinking on responses to the faculty questions posed,
- Review all cases posted on ECO (time: approximately 10 minutes per case) in preparation for the final exam
- Communicate and collaborate with other health professionals.

VII. Course Competencies

This course teaches to the following competencies in the "Competencies for the New Dental Graduate".

Domain I: Critical Thinking

1: Critical Thinking: Use critical thinking and problem-solving, including their use in the comprehensive care of patients, scientific inquiry and research methodology.
2: Evidence-Based Patient Care: Access, critically appraise, apply and communicate scientific and lay literature as it relates to providing evidence-based patient care.
3: Apply biomedical science knowledge in the delivery of patient care.

Domain II: Professionalism

6: Appropriate Referral Provide oral health care within the scope of general dentistry to include recognizing the complexity of patient treatment and identifying when referral is indicated.

Domain VI: Patient Care

A. Assessment, Diagnosis, and Treatment
12: Patient Assessment, Diagnosis, Treatment Planning and Informed Consent: Provide oral health care within the scope of general dentistry to include patient assessment, diagnosis, comprehensive treatment planning, prognosis, and informed consent.
13: Assess Patients with Special Needs: Assess the treatment needs of patients with special needs.

B. Establishment and Maintenance of Oral Health
14: Assessment of Treatment Outcomes: Provide oral health care within the scope of general dentistry to evaluate the outcomes of treatment, recall strategies and prognosis.
15: Patient Management: Provide oral health care within the scope of general dentistry to patients in all stages of life.
21: Provide oral health care within the scope of general dentistry to include local anesthesia and pain and anxiety control, including consideration of the impact of prescribing practices and substance use disorder.
25: Provide oral health care within the scope of general dentistry to include oral mucosal and osseous disorders.
26: Provide oral health care within the scope of general dentistry to include screening and risk assessment for head and neck cancer.

VIII. Evaluation

Evaluation will be a cumulative assessment consisting of students' performance on the required components:

- 8 Self-assessment quizzes which must be completed prior to the midterm exam
- Midterm exam
- Comprehensive Final exam
- Case presentation with at least one scientific reference

Assigning Grades

Eight (8) self-assessment quizzes - 5% (Average of 8 quizzes)

These must be completed **before the midterm exam is given**.

Midterm Exam 30%

Multiple choice exam which covers all assigned media site lectures and associated powerpoints, plus the 8 self-assessment quiz material.

Comprehensive Final Exam - 40%

The final comprehensive exam will include short answer, T/F, and multiple choice questions. Case analysis with multiple choice and possible short essay items regarding case management will be included. These will follow the same format as the small group case presentations. Review the cases and discussion points for the cases designated for the final exam.
Case Presentation – 25%

Students will be assigned a case to review, research, and present to their small group. Successful completion is defined as achieving a score of 72% or higher in each of the 5 subsections on the assessment form. The presentation must include at least one scientific reference (Pub-med) and be completed within the time frame provided, approximately, 10-12 minutes. Students should present the material in a format that engages their peers.

Attendance

- Attendance is only required for the one session at which the student presents their assigned case.
- Failure to show for your assigned presentation will result in 0% for this section and course failure if the presentation is not addressed.
- Students are encouraged to attend any of the group seminars, but additional seminar attendance is not required.

Remediation:

Students failing any academic coursework must meet with the course director to develop a remediation plan, within one week of receiving the failing final grade. The remediation activities are at the discretion of the course director and may consist of a comprehensive examination with emphasis on those areas in which the student failed.

Honorlock will proctor your exams this semester. Honorlock is an online proctoring service that allows you to take your exam from the comfort of your home. You DO NOT need to create an account, download software or schedule an appointment in advance. Honorlock is available 24/7 and all that is needed is a computer, a working webcam, and a stable Internet connection. To get started, you will need Google Chrome and to download the Honorlock Chrome Extension. You can download the extension at www.honorlock.com/extension/install.

When you are ready to test, log into the LMS, go to your course, and click on your exam. Clicking Launch Proctoring will begin the Honorlock authentication process, where you will take a picture of yourself, show your ID, and complete a scan of your room. Honorlock will be recording your exam session by webcam as well as recording your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device. Good luck! Honorlock support is available 24/7/365. If you encounter any issues, you may contact us by live chat, phone (844-243-2500), and/or email (support@honorlock.com. If you encounter issues within the LMS, you may contact Your School's Online Support Services team at their number.

IX. Administrative Practices
Administrative practices for all UFCD courses are universally applied. Exceptions to or deviations from these practices are stated in the individual syllabi by the course director. When not individually stated in the syllabus, course administrative practices default to those identified under "Course Policies" on the DMD Student Website:

https://dental.ufl.edu/education/dmd-program/course-policies/

X. Grade Scale

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<th>Method</th>
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<tr>
<td>Letter Grade</td>
<td>100</td>
<td>0.55 (Final letter grades within this range will be rounded up.)</td>
<td>96 - 100</td>
<td>92 - 96</td>
<td>88 - 92</td>
<td>84 - 88</td>
<td>80 - 84</td>
<td>76 - 80</td>
<td>72 - 76</td>
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