

DEN6421C: Periodontic Treatment Planning and Disease Control

Fall 2020

Course Description:

Review of the information on etiology and pathogenesis of periodontal disease. Students will be introduced to data gathering, diagnosis of periodontal diseases, establishing prognosis, treatment planning and the steps in the first phase of periodontal therapy. Skill development laboratory sessions will focus on oral hygiene skills and motivation of patients, root preparation procedures, and evaluation of phase 1 treatment.

I. General Information

Course Director:

Tsuyoshi Tanaka

Email: TTanaka@dental.ufl.edu

Phone: (352) 294-5109

Course Credits: 2

Semester: Fall

Contributing Faculty/Teachers

Ikramuddin Aukhil (352) 273-7488 IAUKHIL@dental.ufl.edu

Jia Chang (352) 273-8366 JChang@dental.ufl.edu

Gail Childs (352) 273-5952 GCHILDS@dental.ufl.edu

Wagner Duarte (352) 727-1440 WRodriguesDuarte@dental.ufl.edu

Poliana Mendes Duarte PMendesDuarteReis@dental.ufl.edu

Luz D Oreste (352) 273-8363 LORESTE@dental.ufl.edu

Roberta Pileggi (352) 273-5437 RPILEGGI@dental.ufl.edu

Gibson, Frank (352) 273-8856 FGibson@dental.ufl.edu

Lorie L Primosch (352) 273-8365 LPRIMOSCH@dental.ufl.edu

Joseph P Richardson (352) 273-7846 JRICHARDSON@dental.ufl.edu

Karin C Schey (352) 273-7960 KSchey@dental.ufl.edu

Alline T Teles (352) 273-8365 ATClark@dental.ufl.edu TA / Syllabus / Grade Administrator

Cecil White CWHITE@dental.ufl.edu

Support Staff

Abigale Elizabeth Bell (352) 273-7846 ABell@dental.ufl.edu TA / Grade Administrator

Chenelle Cobb CCobb@dental.ufl.edu TA / Grade Administrator

Michelle Cooley (352) 294-5499 MCooley@dental.ufl.edu TA

II. Course Goals

This course introduces students to the clinical management of periodontal disease, in preparation for treating patients clinically. Beginning with the clinical characteristics and pathological process, students will learn to examine, diagnose, and predict the course of inflammatory periodontal disease. Using case based presentations, students will be familiarized with treatment planning methods. Students will learn and practice the therapeutic methods used to initially treat patients with active periodontal disease. The course concludes with assessment methods to determine what additional care is required for successful treatment. Students will begin providing periodontal treatment after successful completion of this course and the demonstration of clinical readiness to perform treatment procedures. Periodontal surgical processes will be the students' next didactic encounter with periodontal therapy.

III. Course Overview

Students will attend 23 lectures, 5 laboratory sessions and 2 clinical sessions. Students will also research and conduct one case presentation.

IV. Course Outline

Lecture 1: Introduction to Periodontology + Anatomy of the Periodontium

Lecture 2: Periodontium in Health and Disease

Lecture 3: Etiology of periodontal disease

Lecture 4: Pathogenesis of periodontal disease

Lecture 5: Clinical and radiographic examination of the periodontium

Lecture 6: Local & Systemic Risk factors

Lecture 7: Prognosis

Lecture 8: Classification of periodontal diseases I

Lecture 9: Classification of periodontal diseases II

Lecture 10: Treatment Planning + Quiz 1

Lecture 11: Epidemiology of periodontal diseases

Lecture 12: The Importance of plaque control during periodontal therapy

Lecture 13: Rationale for root instrumentation

EXAM 1: Midterm

Lecture 14: NSPT I (SRP) + Quiz 2

Lecture 15: NSPT II systemic antibiotics and local antimicrobials

Lecture 16: Phase I Evaluation

Lecture 17: Supportive Periodontal Therapy (SPT)

Lecture 18: Endo-Perio Lesions

Lecture 19: Preparation for clinic sessions

Lecture 20: Acute lesions of the periodontium Lecture

21: Occlusion and Periodontal Diseases + Quiz 3

Lecture 22: Perio Restorative Relationships

Lecture 23: Healthy peri-implant mucosa, peri-implant mucositis, and peri-implantitis

Sim-Lab Practice

Lab 1: Diagnostic Instruments - periodontal probing/charting

Lab 2: Periodontal Instrumentation I - Universal curettes, scalers, and sharpening

Lab 3: Periodontal Instrumentation II - Gracey curettes and sharpening

Lab 4: Periodontal Instrumentation: Practicing and psychomotor

Lab psychomotor remediation (if needed)

Clinical Practice

Ultrasonics & Polishing clinic exercise on dental models

Clinic 1 - Perio assessment and Prophylaxis practice

Clinic 2 - Perio assessment and Prophylaxis practice

Case Presentations (group assignment)

EXAM 2: Final

V. Course Material

Recommended text:

Newman, M., Takei, H., Klokkevold, P., Carranza, F., Carranza's Clinical Periodontology, Twelfth Edition, Saunders Elsevier.

Required Materials:

Instrument kits for lab sessions 1-4 will be provided to you in Lab-1. Each student will have to checkout instrument kits (ultrasonic scalers, perio instrument trays, handpieces) from sterilization for the ultrasonics lab and clinics 1 and 2.

Additional Resource:

Dental Lib Guide: <http://guides.uflib.ufl.edu/dental>

VI. Course Objectives

This course is instructionally designed to prepare you for the transition from a primary knowledge acquisition environment to a clinical applications environment. A movement from background information to clinical application is encouraged by periodic case based work sessions where you will be challenged to integrate and apply knowledge about periodontal pathology to actual clinical cases. As treatment methods for controlling etiologic agents become central course content, you will have a series of laboratory and clinical exercises to develop cognitive and motor skills associated with the initial stages of periodontal care. As instructors, our roles will focus on facilitating the application of your knowledge base to clinical situations. During the instrumentation phase our approach will be structured repetition and feedback. As a student in this class your role will be more active in applying information following its presentation through structured small group exercises, case based analysis of data and its therapeutic implications, and critical decision making.

The major learning objectives are as follows:

1. You will assimilate a periodontal examination routine and relate the individual pieces of data gathered to an overall diagnosis.
2. You will recognize and classify forms of periodontal disease based on clinical criteria, and you will develop a concept of prognosis based on previous disease exposure, heredity, host response, local factors, microbial colonization and risk assessment.
3. You will practice and teach oral hygiene skills within a patient motivational framework in a clinical session.
4. You will develop psychomotor skills in removing deposits from root surfaces.
5. You will relate changes occurring during initial periodontal care to the stability and need for more advanced care in periodontal patients.
6. You will describe the rationale and therapeutic steps in periodontal maintenance therapy.

VII. Course Competencies

This course teaches 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.

Domain VI: Patient Care - 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.

20: Provide oral health care within the scope of general dentistry to include periodontal therapy.

VIII. Evaluation

Evaluation philosophy:

Create fair and calibrated evaluations that test critical thinking, evidence-based knowledge and applied clinical skills towards the competency for proper diagnosis, treatment planning and clinical skills in Periodontology

You are responsible for learning the materials presented in lecture, lab, and clinic, as well as the assigned text readings assigned to be prepared for all class sessions and to render periodontal therapy to assigned patients.

There will be three quizzes given in lecture classes (no makeup quizzes, the lowest grade will be dropped) and one quiz/instrumentation skills test - at the end of the last laboratory session (identification, activation and sharpening of instruments).

There will be a grade on the student case presentations and clinic/ labs/ lecture attendance/ course participation. Attendance is mandatory and will be recorded at each session. No unexcused absences will be allowed without affecting your grade.

The midterm and the final exams are based on lecture/ lab/ clinic presentations and text when indicated.

Evaluation will be based on the following:

- Lecture quizzes (best 2 of 3: usually cumulative although more emphasis are given to recent lectures - not tested for already) =10%
- Psychomotor skills assessment*: instrumentation (see documents folder for grading criteria) = 10%
- Student case presentations = 10%
- Attendance & Participation (clinical, labs, lectures and course evaluation) = 5%
- Midterm exam (multiple choice - usually around 40 questions - includes lab materials) = 30%
- Final exam (multiple choice also usually around 40 questions - includes lab materials - knowledge from previous lectures may be needed in order to answer the clinical scenarios well) = 35%

* Note: No one will be allowed to use the ultrasonic instrument or any manual instruments on patients until they remediate that portion of the course if it is missed during class.

Remediation:

If a student receives an "E" grade, they must contact the course director within 2 weeks to schedule a remediation session. The course director will determine which re-examination is necessary (written and/or psychomotor) for that student and schedule it accordingly.

Remediation grades will be averaged with previous grades for a final grade. *The psychomotor exam is Pass/Fail and remediation is required.

Faculty Evaluation

“Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://ufl.bluera.com/ufl/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.”

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

DEN6421C Grade Scale

Method Letter Grade

Scale 100

Tolerance 0.5 (Final letter grades within this range will be rounded up.)

A 95 - 100

A- 92 - 95

B+ 88 - 92

B 84 - 88
B- 80 - 84
C+ 76 - 80
C 70 - 76
E 0 - 70