



CDM 2280 - Internal Medicine for Dentists

I. Course Information

Course: CDM 2280 - Internal Medicine for Dentists
Semester and Year: Fall 2021
Course Start and End Dates: 07/26/2021 - 12/12/2021
Course Reference Number: 24017
Semester Credit Hours: 2.0
Building and Room: HPD-Assembly I Building - 2101TERY

II. Instructor Information

Professor: Lina Maria Mejia
Email: lm1273@nova.edu
Office Hours:
 Dr. Mejia by appointment
 For assistance in Pharmacology:
 Michael J. Parker, PhD
 Office Room # and Office Hours: 1357 by Appt.
 Phone: 954-262-1357
 E-Mail: parkmich@nova.edu

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
W	07/28/2021 - 12/08/2021	1:10 PM - 2:59 PM	Ft Lauderdale/Davie Campus	HPD-Assembly I Building- 2101TERY

IV. Course Description

Systemic diseases, as well as the medications used to treat these diseases, can significantly affect even the most routine dental procedure. Conversely, dental treatment can also have serious effects upon a patient's existing health problems. The quality of total health care delivered to a patient is therefore, dependent upon the ability of the dentist to properly evaluate the physical status of dental patients. This semester-long course is devoted to a review of internal medicine and facilitates student exploration of applied principles of diagnosis of the medically complex patient (MCP) and translation of these principles into clinical practice. Lectures are given in a review of systems format. All lectures will present a specific system/disorder with emphasis on definition, epidemiology, pathophysiology and complications, clinical presentation, medical management and dental management. Each lecture reinforces previously encountered concepts of pathology and physiology, translates these concepts into a clinical venue, and then applies dental management techniques that are necessary to safely manage patients in clinical practice. Concepts of antibiotic premedication and medical consultation will be introduced. This lecture series will be delivered by faculty members in the Department of Diagnostic Science

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

At the completion of this course, the student will be able to:

1. Provide a review of selected systemic disorders with regard to etiology, pathogenesis, clinical presentations and medical treatment.
2. Understand the relationship between systemic diseases and specific dental procedures.
3. Recognize those medical problems that require referral and be able to initiate appropriate referral mechanisms.
4. Know the information necessary to interpret the results of medical consultations and laboratory tests.
5. Alter the dental treatment plan accordingly to provide comprehensive dental care for the patient with medical problems

COLLEGE OF DENTAL MEDICINE COMPETENCY STATEMENTS Faculty Note: Use the most updated version of the CDM Predoctoral Competency document to select the corresponding competencies for this course. Be sure to select the number of the competency statement and the verbatim competency statement as it appears on the competency document. For each competency indicate the type of assessment (formative or summative) that will be employed to measure the attainment of the competency

Core Competencies:

Related Competencies (as defined by educational outcomes):

1. Graduates must be competent in patient assessment, diagnosis, comprehensive treatment planning, prognosis, and informed consent. *[CODA Predoctoral Standard 2-24(a)] (Formative) Quizzes, Midterm exam (Summative) Cumulative Final exam*
 2. Graduates must be competent in screening and risk assessment for head and neck cancer. *[CODA Predoctoral Standard 2-24(b)] (Formative) Quizzes, Midterm exam (Summative) Cumulative Final exam*
 3. Graduates must be competent in recognizing the complexity of patient treatment and identifying when referral is indicated. *[CODA Predoctoral Standard 2-24(c)] (Formative) Quizzes, Midterm exam (Summative) Cumulative Final exam*
 19. Graduates must be competent in the application of biomedical science knowledge in the delivery of patient care. *[CODA Predoctoral Standard 2-15] (Formative) Quizzes, Midterm exam (Summative) Cumulative Final exam*
 20. Graduates must be competent in the application of the fundamental principles of behavioral sciences as they pertain to patient-centered approaches for promoting, improving and maintaining oral health. *[CODA Predoctoral Standard 2-16] (Formative) Quizzes, Midterm exam (Summative) Cumulative Final exam*
 24. Graduates must be competent in communicating and collaborating with other members of the health care team to facilitate the provision of health care. *[CODA Predoctoral Standard 2-20] (Formative) Quizzes, Midterm exam (Summative) Cumulative Final exam*
 26. Graduates must be competent in the use of critical thinking and problem-solving, including their use in the comprehensive care of patients, scientific inquiry and research methodology. *[CODA Predoctoral Standard 2-10] (Formative) Quizzes, Midterm exam (Summative) Cumulative Final exam*
 28. Graduates must be competent to access, critically appraise, apply, and communicate scientific and lay literature as it relates to providing evidence-based patient care. *[CODA Predoctoral Standard 2-22] (Formative) Quizzes, Midterm exam (Summative) Cumulative Final exam*
- This refers to the same as the items in the CDM Competency Document; please see them listed below.

FOUNDATION KNOWLEDGE

STATEMENTS FOR THE GENERAL DENTIST

FK1: Apply knowledge of molecular, biochemical, cellular, and systems-level development, structure and function to the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

FK2: Apply knowledge of physics and chemistry to explain normal biology and pathobiology in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

FK4: Apply knowledge of the principles of genetic, congenital and developmental diseases and conditions and their clinical features to understand patient risk in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

FK5: Apply knowledge of the cellular and molecular bases of immune and non-immune host defense mechanisms in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

FK6: Apply knowledge of general and disease-specific pathology to assess patient risk in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

FK7: Apply knowledge of the biology of microorganisms in physiology and pathology in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

FK8: Apply knowledge of pharmacology in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

FK9: Apply knowledge of sociology, psychology, ethics and other behavioral sciences in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

FK10: Apply quantitative knowledge, critical thinking, and informatics tools in the prevention, diagnosis, and management of oral disease and the promotion and maintenance of oral health.

VI. Materials and Resources

Course Required Texts and Materials:

- *Dental Management of the Medically Compromised Patient*. Little, Miller, Rhodus, Editors; Ninth Edition; C.V. Elsevier, 2017
- *Basic and Clinical Pharmacology*, Bertram G. Katzung, Ed., 12th Edition, The McGraw-Hill Companies, Inc., 2012.

Faculty Note: Please indicate the textbooks that are **required** for the class and if available, a hyperlink to the textbook. Also, indicate if there are articles or links to **required readings** that are required for the class *and* the site where the articles are available for the student (such as: Canvas, library, database).

- Supplemental, Recommended, Optional, NOT required.

The access to all instructional resources included in this course, such as, lectures, handouts, manuals, PowerPoint presentations, videos, photographs, pictures, articles and web links is limited to students who are enrolled in the course and is not for public distribution. The use of these instructional resources is exclusively for non-commercial and non-profit educational use. Students are recommended to download the instructional resources provided in the course, UNLESS, the course director instructs NOT to download specific files. We recommend that all students download, save, and keep the instructional materials from all the courses. These instructional resources will be very helpful references as you progress from year to year in the program.

VII. Course Schedule and Topic Outline

Course Schedule: For course hours information, please refer to the Course Syllabus Sections I-III

Topic Outline:

Lecture	Date	Topic	Chapter	Content Outline	Faculty
1	8/04/21	Patient Evaluation and Risk Assessment / Policy Guide for MCPs	1	Thorough patient medical history establishes patient medical status and prevent dental office emergencies	Mejia
2	8/11/21	Infective Endocarditis & Prosthetic Joint Premedication	2, 20	Responsibility of dentist to prevent endocardial & prosthetic joint infections	Mejia
3	08/18/21	Hypertension	3	Dental treatment guidelines for hypertensive patients	Mejia
4	08/25/21	Cardiovascular Disease (Ischemic Heart Disease, Cardiac Arrhythmias & Congestive Heart Failure)	4, 5, 6	Distinguish various types of heart disease, medications used / side effects of medical treatment & impact on clinical dentistry	Mejia
5	09/01/21	Liver Disease	10	Various causes of reduced liver function & dental management considerations	Mejia
6	09/08/21	Sexually Transmitted Diseases & HIV / AIDS	13, 18	Implications for clinical dental management of patients with a current, or a history of, STI	Mejia
7	09/15/21	Chronic Kidney Disease and Dialysis	12	End-stage renal disease medical therapy & dental management considerations	Mejia
8	09/22/21	Hematologic (Bleeding) Disorders	24, 25	Dental treatment modifications necessary for patients with congenital & acquired disorders	Mejia
	09/29/21	MIDTERM EXAMINATION		Lectures 1-7	
9	10/06/21	Pulmonary Disease	7, 8	Prevention of potential problems when treating patients with lung diseases	7, 8
10	10/8 8-10	Respiratory pharmacology	20 Katzung	Discuss the drugs used for respiratory disorders including asthma and COPD.	Parker
11	10/13/21	Gastrointestinal (GI) Disease	11	Types of GI disease & medical treatment that may affect dental management	Mejia

12 3-5pm	10/13	Gi Pharmacology	62 Katzung	Description and overview of gastrointestinal pharmacology including drugs for acid peptic disorders, laxatives, antidiarrheals and antiemetics.	Parker
13	10/20/21	Diabetes Endocrine Diseases	14, 15, 16	Oral manifestations & dental management considerations for diabetic patients. Adrenal and thyroid disorders & necessary dental treatment modifications	Mejia
14 3-5pm	10/20	Diabetes pharmacology	41 Katzung	Insulin and antidiabetic agents for management of Type I and Type II diabetes mellitus	Powell
15	10/27/21	Immunologic Disease		Dental management and considerations in patients with Rheumatologic and connective tissue disorders	
	10/29/21	Quiz #1		Lecture 10, 12 and 14	Parker
16	11/03/21	Glucocorticoid/mineralocorticoids	39 Katzung	Corticosteroid pharmacology: Management of disturbed adrenal function and nonadrenal disorders	Powell
17	11/10/21	CNS/Mental health conditions and Behavioral Disorders	28, 29	Identify problems that may be encountered in the dental practice that stem from a patient's behavioral patterns, rather than from physical conditions. Considerations for dental management.	Mejia
18 3-5 pm	11/10	Antipsychotics	29 Katzung	Describe the first and second generation antipsychotics uses, mechanisms and adverse reactions.	Parker
20	11/17/21	Antidepressants and Bipolar Disorder	30 Katzung	Explain the different classes of agents used for depression, their side effects and theories for how they work. Describe the treatment strategies and agents used for bipolar disorder.	Parker
	11/19/21	Quiz #2		Lecture 16, 18 and 20	Parker
	11/24/21	FINAL EXAMINATION			Mejia/Parker

“Important note – Please note that due to the current Coronavirus pandemic, course schedules and course activities may be modified now and in future. Faculty and students are responsible for keeping apprised of these changes and adjusting their schedules accordingly.”

VIII. Instructional Methods

In this section of the syllabus you will find information about any course (instructional, assessment, assignments, benchmarks and/or clinical) modifications that were added to the course as a result of COVID-19

No modifications were added to the course as a result of COVID-19.

IX. Assignments

Description of Assignments, Point Value and Rubrics

<https://www.mededportal.org/publication/7768>

X. Grading Criteria

Provide a List of all the graded work in the course (Assessments, Class Activities, Classwork and Assignments) with Point or Percentage Values, or required Completion item.

Grading Scale:

0-100 scale Midterm Exam: 35%

Quiz 1: 15%

Quiz 2: 15 %

Final Exam: 35%
100%

Make-up examinations for unexcused student absence from an examination may consist of multiple choice, true/false, fill-in, short answer, and/or identification type questions.

Course Final Grade Mode for the course (Pass/Fail, PR/NPR or Letter Grade). For a continuum course, please specify the grade mode for each semester.

Grade Mode:

Letter grade

Course Grading Scale

Letter Grade	GPA	Equivalence
A	4	93 to 100
A-	3.75	90 to < 93
B+	3.5	86 to < 90
B	3	83 to < 86
B-	2.75	80 to < 83
C+	2.5	76 to < 80
C	2	70 to < 76
F	0	<70

XI. Course Policies

COURSE ATTENDANCE REQUIREMENTS, REMEDIATION POLICY, ALL CDM POLICIES

Attendance Policy : Please refer to appropriate pages of the NSU-CDM 2020-2021 Student Handbook.

Link to the handbook:

<https://liverootnova.sharepoint.com/dentmed/Active%20Docs/Policies%20and%20Procedures/Pre%20a2020%20CDM%20Pre%20Doctoral%20Student%20Handbook.pdf?wa=wsignin1.0>

Remediation Policy: Please refer to appropriate pages of the NSU-CDM 2020-2021 Student Handbook.

“Successful completion of each CDM course requires compliance with the CDM Code of Behavioral Conduct.”

CDM College Attendance Policy Please note that, the Office of Admissions, Student Affairs and Services manages excused absences including sick days, mission trips, dental meetings, externships, interviews, family events, and other personal leave time, etc. and all student absences will continue to be tracked in axiUm. (Please refer to NSU Wide Religious Holidays Policy in the Student Handbook.)

- Planned excused absences: please fill out the appropriate paperwork, with backup documentation (e.g. physician's note), and submit on the online portal for the Office of Student Services prior to the scheduled absence, so that we can approve the leave time, and help you map out a plan to make up the work. It is the student's responsibility to inform the course director for any courses you will be missing, your team leader for any clinic sessions that will be missed and/or the Coordinator of Extramural Programs (Dr. Mairelina Godoy), etc. of your planned absence(s).
- Unplanned excused absences: please email Dr. Galka at agalka@nova.edu with a cc to cdmservices@nova.edu to report that you will be out, the reason for your absence and to also let us know if you plan to return to school the following day. You should also email the course director for any courses you will be missing, Dr. Mairelina Godoy mg1189@nova.edu for any rotations you will be missing and/or your team leader for any clinic sessions scheduled for that day. You must continue to email us daily to keep us updated if you will be out additional days and you can submit your SREA form together with backup documentation when you know the date you will return to school.

The student will be responsible for making up all missed rotations, all material presented in lectures, all laboratory projects, all written and practical examinations (including OSCEs) and must fulfill all didactic and clinical responsibilities as outlined in the individual course syllabi. Also, please review the attendance policy in the individual course syllabi.

- Please do not schedule externships or interviews when you are scheduled for an examination or rotation.
- Remember, it is your responsibility to reach out to our office for any unexcused absences to see if these fall under excused absences and/or to see how the unexcused absence will be managed. Also, please contact Dr. Mairelina Godoy directly to arrange makeup of any and all missed rotations, which will take place during optional clinic weeks.

Every student will be able to take 1 Personal Day/per Semester (3 Personal Days/Academic Year) with NO BACKUP DOCUMENTATION REQUIRED, provided the day(s) are not taken when you are scheduled for a rotation, written examination, practical/competency examination, OSCE or taken directly before/after a school holiday, etc. These absences will be managed through our office and designated as excused absences, provided our office is notified by email in advance or on the day of the absence. (Please indicate in the email if you will be using a personal day and designate D-1, D-2, D-3 or D-4 student.) For any additional absences to the 1 Personal Day/per semester, or in the event that you will be missing a written examination, a preclinical or clinical practical/competency examination, including an OSCE, or rotation, backup documentation WILL be required. Again, it is the student's responsibility to notify all course directors, team leaders, and/or the Coordinator of Extramural Programs, etc. affected by your absence(s). Please check your individual schedule before requesting a personal day, to be sure that you will not be missing a rotation or an exam. A personal day will be recorded as a full day. (Half days cannot be requested.) A personal day must be requested on or before the day in question and cannot be used retroactively.

COVID-19 Protocol (subject to change)

- NO STUDENT IS TO COME TO SCHOOL SICK- if you do not feel right- please do NOT come to school. Email Dr. Galka- Assistant Dean for Admissions, Student Affairs and Services (agalka@nova.edu)
- If a student has had direct/close contact with someone who has been infected with COVID-19 or is experiencing COVID-like symptoms- immediately self- isolate/quarantine. Email Dr. Galka and Dr. Schweizer- Director Infection Prevention Programs (schweize@nova.edu).
 - Direct Exposure/ Asymptomatic: test on day 7- if negative test result- can come back after 10 days : if NO test- quarantine 14 days
 - Symptomatic (with or without Direct Exposure): test immediately and then again on day 7- if negative test result on day 7- can come back after 10 days : NO test- quarantine 14 days and must be symptom-free for 72 hours
- If a student tests positive for COVID-19: remain self-isolated. To return to school: student needs to have 2 consecutive negative test results in a row (at least 24 hours apart).
- Students who are in quarantine, need to contact both Dr. Galka and Dr. Hernandez (marher@nova.edu) to determine if they can participate in online courses during this time

XII. University Policies

Academic Integrity: Cheating or inappropriate behavior during any written examination, quiz, any

assignment, any project; plagiarism of any work(s), or other unethical behavior will not be tolerated; the student risks receiving a grade of zero (0) for said examination, quiz, assignment, project and may be referred to the Associate Dean for Academic Affairs and the Student Progress Committee. Please refer to appropriate pages of the NSU-CDM 2020-2021 Student Handbook. and the NSU Student Handbook located at

<https://liverootnova.sharepoint.com/dentmed/Active%20Docs/Policies%20and%20Procedures/Pre%20and%202020%20CDM%20PreDoctoral%20Student%20Handbook.pdf?wa=wsignin1.0> .

Plagiarism Policy: All assignments, exams, works, patient care - written, laboratory, oral, clinical must be done as the independent work of each individual student. Plagiarism, copying or sharing the work of another or altering documentation to reflect something is your own work that is not; reflect false attendance, are considered serious offences that will not be tolerated. THESE ACTIONS WILL BE CONSIDERED IN VIOLATION OF THE UNIVERSITY AND THE CDM CODE OF BEHAVIORAL CONDUCT AND WILL BE REFERRED FOR APPROPRIATE ACTION. Students who need assistance in their learning goals should communicate with the appropriate NSU-CDM course director and/or faculty. Please refer to appropriate pages of the NSU and the CDM 2020-2021 Student Handbook. Following a link to the NSU Student Handbook

<https://liverootnova.sharepoint.com/dentmed/Active%20Docs/Policies%20and%20Procedures/Pre%20and%202020%20CDM%20PreDoctoral%20Student%20Handbook.pdf?wa=wsignin1.0>

University Policy

Class content throughout this course may be recorded in accordance with the NSU Class Recording Policy. If class content is recorded, these recordings will be made available to students registered for this course as a supplement to the classroom experience. Recordings will be made available to all students who were registered to attend the live offering of the class, regardless of a student's section or discipline, or whether the student is participating in the course online. If recordings are intended to be accessible to students or third parties who were not registered for the live offering of the class, students' personally identifiable information will be removed or redacted from the recording, unless (1) their written consent to such disclosure was previously provided, or (2) the disclosure is permissible in accordance with the Family Educational Rights and Privacy Act ("FERPA").

Students are prohibited from recording audio or video, or taking photographs in classrooms (including online classes) without prior permission from the instructor or pursuant to an approved disability accommodation, and from reproducing, sharing, or disseminating classroom recordings to individuals outside of this course.

Students found engaging in such conduct will be in breach of the Student Code of Conduct and subject to disciplinary action.

Title IX/Sexual Misconduct: Sexual violence and sexual harassment are contrary to our core values and have no place at Nova Southeastern University. In accordance with Title IX and other laws, NSU prohibits discrimination, including sex-based discrimination and discrimination towards pregnant/parenting students. If you or someone you know experience(s) sexual violence and/or sexual harassment, there are resources and options available. To learn more or to report an incident, please visit the NSU Title IX website at www.nova.edu/title-ix. Please be aware that as an instructor, I am not a confidential resource, and I will need to report any incidents of sexual misconduct to the NSU Title IX Coordinator. You can also contact Laura Bennett, NSU's Title IX Coordinator directly at laura.bennett@nova.edu or 954-262-7858.