



CDM 2170 - Pharmacology, Analgnesia & Local Analgesia

I. Course Information

Course: CDM 2170 - Pharmacology, Analgnesia & Local Analgesia
Semester and Year: Winter 2021
Course Start and End Dates: 01/04/2021 - 04/25/2021
Course Reference Number: 31890
Semester Credit Hours: 2.0
Building and Room: Online Venue - CANVAS

II. Instructor Information

Professor: Ana Maria Ospina
Email: aospina@nova.edu
Office Hours:
 Wednesday 9-12

III. Class Schedule and Location

Day	Date	Time	Location	Building/Room
	01/04/2021 - 04/25/2021		Programs On-line	Online Venue-CANVAS
M	01/04/2021 - 01/11/2021	1:10 PM - 1:59 PM	Programs On-line	Online Venue-CANVAS
M	01/25/2021 - 04/19/2021	1:10 PM - 1:59 PM	Programs On-line	Online Venue-CANVAS

IV. Course Description

Pharmacology, Analgesia and Local Anesthesia II, CDM 2170, is a didactic, lecture oriented course which reinforces information presented concerning the delivery of local anesthesia, including the application of pertinent anatomy, physiology, and pharmacology presents in CDM 2150. Students also will receive basic information about alternative techniques of pain and anxiety control such as oral sedation, nitrous oxide, IV sedation, general anesthesia and acupuncture. Students will also participate in a local anesthesia techniques lab seminar. This seminar will prepare the student to successfully administer local anesthetic in a live patient format. In a small group design, the students will alternate being the operator, the patient and the observer assistant. The student will demonstrate competency in technical aspects of local anesthetic administration and in applying pharmacological principles to the selection of local anesthetics and pain management.

V. Course Objectives / Learning Outcomes

Course Learning Outcomes

Upon successful completion of Pharmacology, Analgesia and Local Anesthesia II, CDM 2170, students will be prepared to deliver local anesthesia, including supplemental techniques. They will be able to:

1. Know and understand the components of a thorough medical history.
2. Develop and understanding of the skills involved in performing a patient examination.
3. Know and understand basic concepts about principles of management of head and neck pain.
4. Develop a comprehensive knowledge of the local anesthetic drugs and vasoconstrictors used in dentistry.
5. Develop a comprehensive knowledge of the regional anatomy for local anesthesia.
6. Know and understand the anesthetic extra-oral techniques.
7. Develop an understanding of the etiology and management of local anesthetic complications.
8. Know and understand the basic concepts of Oral Sedation, Nitrous oxide, Conscious sedation, and general anesthesia used in the dental practice.
9. Develop a comprehensive knowledge about Legal considerations in Local Anesthesia.

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:

5. Graduates must be competent in local anesthesia, and pain and anxiety control, including consideration of the impact of prescribing practices and substance use disorder. [CODA Predoctoral Standard 2-24(e)]

Formative assessments: Quizzes, midterm exam

Summative assessment: 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 assessments: Quizzes, midterm exam

Summative assessment: Final Exam

22. Graduates must be competent in applying legal and regulatory concepts related to the provision and/or support of oral health care services. [CODA Predoctoral Standard 2-18]

Formative assessments: Quizzes, midterm exam

Summative assessment: Final Exam

27. Graduates must demonstrate competence in the ability to self-assess, including the development of professional competencies and the demonstration of professional values and capacities associated with self-directed, lifelong learning. [CODA Predoctoral Standard 2-11]

Formative assessments: Discussion-self-assessment

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 assessments: Case Presentation

Summative assessment: 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.

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.

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.

VI. Materials and Resources

Course Required Texts and Materials:

1. Handbook of Local Anesthesia, 6th Ed. By Stanley Malamed. Elsevier. ISBN: 978-0-323-07413-1

2. Contemporary Oral and Maxillofacial Surgery 6th Edition, James Hupp, Edward Ellis III, Myron R. Tucker. Elsevier. ISBN-13: 978-0323091770 ISBN-10: 0323091776

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).

Course Supplemental Materials:

“Refer to Course Schedule above”

- 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:

ANESTHESIA II - CDM 2170 - WINTER 2021 - MONDAYS 1:10 PM TO 2:00 PM – Hull Aud.

Date	Lecture	Lecturer	Reading Assignment
Jan 4	Medical Emergencies	Dr. Kaner	Hupp Chapter 2, Malamed 18
Jan. 11	Videos on Delivery of Local Anesthesia- Adjunctive (Supplementary) Injection Review mandibular techniques	Dr. Ospina	Malamed: 11, 13, 14 & 15.
Jan 18	No Lecture (Martin Luther King Day)		University closed.
Jan 25	Local & Systemic Complications of L.A- Extraoral Blocks	Dr Ospina	Handouts- Malamed
Feb 1	Choosing the proper local anesthetic	Dr. Kaner	Handouts
Feb. 8	Acupuncture	Dr. Bradley	

Feb. 15	Future Trends in Pain Control- Extraoral Blocks	OMFS/Residents	Malamed: Chapter 20 Handouts
Feb 22	Oral Sedation	Dr. Koyama	Sedation: A guide for Pt management. Chapter 7
March 1			
March 8	Management of pain and inflammation in dentistry	Dr Powell	Handouts
March 15	Management of fear and anxiety in dentistry	Dr Powell	Handouts
March 22	Midterm- 1-2 Steele	Dr. Ospina	
March 29	Opioid Prescription	Dr. Nack	Handouts
April 5	Prescription Writing	Dr. Splaver	Handouts
April 12	Final Exam-1-2 Steele	Dr. Ospina	
April 19			

Training Distribution / CDM 2170
Tuesdays 8:00am – 10:00 am – Winter 2021.
ANESTHESIA- OMFS Clinic

Training: Local Anesthesia	ANESTHESIA <u>Bring: goggles/eye protection</u>
GROUP	DATES
A (From Abdullah, Zakiya to Gonzalez, Raymond)	January 12, 19, 26 2021
B (From Gonzalez Acosta Antonio to Patel Pooja)	February 2, 9, 16 2021
C (From Patel Viral to Zumarán, Diana)	February 23, March 2, 9 2021

Session	Training
First Session	Techniques of Maxillary Anesthesia Chapter 13, Malamed. 6th Edition

Second Session	Techniques of Mandibular Anesthesia Chapter 14, Malamed. 6th Edition
Third Session	Competency

Topic Outline:
"Refer to Course Schedule above"

"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. Assignments

Description of Assignments, Point Value and Rubrics

For Anesthesia: A competency examination will be given at the end of the Administration of Local Anesthesia Seminars. Each student must demonstrate competency in local anesthesia technique, regional anatomy and how local anesthesia works. Your performance will count as 20% of your final grade and you must pass to be able to administer local anesthesia in the clinic.

Minimum number experiences prior to challenging ICPA	Type of Independent Competency Exam	Due Date
2	Anesthesia session	April 23 /2021

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IX. 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:

Midterm: 30%

Final Exam: 50%

Seminars/Training-L.A. injections: 20% (competency evaluation, ICPA grading is the 100% of this 20%, however if there is an unexcused absence deductions will be applied).

Total = 100%

Examinations are written multiple question/multiple choice format. Make-up examinations may be written multiple question/multiple choice, written essay, or oral depending on the discretion of the course director as per the student handbook. Tested material includes all aspects of the course syllabus.

Unannounced quizzes may be given based on the reading assignment designated for that lecture and/or previous lectures, and lecture material covered prior to that day. ****Please refer to 2020-2021 NSU-CDM Predoctoral Student Handbook** regarding point deductions off of final course grade pertaining to unexcused absences. No makeup quizzes will be given if the absence is unexcused.

The student is responsible for all material from lectures, reading assignments, and laboratory application REGARDLESS OF EXCUSED OR UNEXCUSED ABSENCES/LATENESS. Written exams/quizzes 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:

Number 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

X. 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%20PreDoctoral%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 clinicweeks. • 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)**1. 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) 2. 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). a. Direct Exposure/ Asymptomatic: test on day 7- if negative test result- can come back after 10 days : if NO test- quarantine 14 days b. 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 hours3. 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). 4. 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

XI. 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.