Local Anesthesia for Licensed Dental Practitioners

Course Catalog Number: LADH 2341 200117 (Spring 2020)
Full Course – Friday Lectures, as well as Saturday and Sunday Hands-On Practice

COURSE AGENDA AND TOPICS COVERED
The following schedule is tentative; changes/updates may occur before this class starts (presenters, campus location, dates & times, etc.), however, this is very rare. Changes/Updates/Adjustments and emergencies do happen, a presenter may find they need more time to cover a certain topic, or we may have to shift to another location, due to rooming conflicts. Any enrolled students always receive up-to-date information/announcements through their registration contact information.

<table>
<thead>
<tr>
<th>Day One:</th>
<th>Friday, January 17, 2020 (8.0 CEU/PDU/Hours)</th>
<th>Education 2 South (L28) Room #1307</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am to 7:30am</td>
<td>Class Check-In</td>
<td></td>
</tr>
<tr>
<td>7:30am to 7:55am</td>
<td>Pretest (With Meghan Crow, RDH, and Manti Lehn, RDH)</td>
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<tr>
<td>7:55am to 8:00am</td>
<td>Welcome and Introduction</td>
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<tr>
<td>8:00am to 9:30am</td>
<td>History of Anesthesia, and Physiology of Pain  (With Dr. Lonnie Johnson, DDS, PhD)</td>
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<tr>
<td>9:30am to 9:35am</td>
<td>Let’s Take a Quick Break</td>
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<tr>
<td>9:35am to 11:30am</td>
<td>Pharmacology of Local Anesthesia, Pharmacology of Vasoconstrictors, and Clinical Actions of Specific Agents (With Dr. Michael Savage, DDS)</td>
<td></td>
</tr>
<tr>
<td>11:30am to 12:10pm</td>
<td>Lunch Provided</td>
<td></td>
</tr>
<tr>
<td>12:10pm to 1:10pm</td>
<td>Anatomical Considerations (With Dr. Lonnie Johnson, DDS, PhD)</td>
<td></td>
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<tr>
<td>1:10pm to 2:25pm</td>
<td>Patient Evaluation (With Manti Lehn, RDH)</td>
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<tr>
<td>2:25pm to 2:40pm</td>
<td>Let’s Take a Break</td>
<td></td>
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<tr>
<td>2:40pm to 5:00pm</td>
<td>Complications of Local Anesthesia, and Armamentarium (With Meghan Crow, RDH)</td>
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<thead>
<tr>
<th>Day Two:</th>
<th>Saturday, January 18, 2020 (8.0 CEU/PDU/Hours)</th>
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</thead>
<tbody>
<tr>
<td>7:30am to 8:00am</td>
<td>Class Check-In – Education 2 South (L28) Room #1307</td>
</tr>
<tr>
<td>8:00am to 10:30am</td>
<td>Techniques of Maxillary Anesthesia (With Manti Lehn, RDH) – Education 2 South (L28) Room #1307</td>
</tr>
<tr>
<td>10:30am to 12:30pm</td>
<td>Laboratory Exercises – Maxillary (With Multiple Instructors) – SDM Bldg., 4th Floor Clinic</td>
</tr>
<tr>
<td>12:30am to 1:30pm</td>
<td>Lunch Provided – Education 2 South (L28) Room #1307</td>
</tr>
<tr>
<td>1:30pm to 3:00pm</td>
<td>Techniques of Mandibular Anesthesia (With Meghan Crow, RDH) – Education 2 South (L28) Room #1307</td>
</tr>
<tr>
<td>3:00pm to 5:00pm</td>
<td>Laboratory Exercises – Mandibular (With Multiple Instructors) – SDM Bldg., 4th Floor Clinic</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Day Three:</th>
<th>Sunday, January 19, 2020 (8.0 CEU/PDU/Hours)</th>
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</thead>
<tbody>
<tr>
<td>7:30am to 8:00am</td>
<td>Class Check-In – SDM Bldg., 4th Floor Lobby</td>
</tr>
<tr>
<td>8:00am to 12:00pm</td>
<td>Laboratory Exercises – Mandibular and Maxillary Anesthesia (With Multiple Instructors) – SDM Bldg., 4th Floor Clinic</td>
</tr>
<tr>
<td>12:00pm to 1:00pm</td>
<td>Lunch Provided – SDM Bldg., 4th Floor Lobby</td>
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<tr>
<td>1:00pm to 4:00pm</td>
<td>Clinical Patient (With Multiple Instructors) – SDM, 4th Floor Clinic</td>
</tr>
<tr>
<td>4:00pm to 5:00pm</td>
<td>Final Exam, Closing Remarks, Questions &amp; Answers Time, Class Evaluation Form, Continuing Education Needs Assessment Survey – Education 2 South (L28) Room #1307</td>
</tr>
</tbody>
</table>
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WHAT IS THIS COURSE ALL ABOUT?
We designed our 24-hour course in local anesthesia to comply with the educational requirements of the Rules and Regulations of the Dental Practice Act of Colorado. Each state’s Dental Practice Act is different. If practicing/applying outside of Colorado you must read that state’s Practice Act to determine exactly what requirements you will need to accomplish. We may be able to accommodate some additional state requirements – please contact our Continuing Dental Education Office for details.

Through lecture, demonstration, laboratory, and clinical experiences, participants learn the management of pain through the administration of local anesthetic agents. Participants receive hands-on experience with live patients on Saturday and Sunday of the course. This course is necessary for those who are moving to Colorado or for those who have not successfully completed a 24-hour course in local anesthesia, including block anesthesia, as part of your accredited dental hygiene program or in a formal continuing education course by an ADA CERP accredited school.

OBTAINING HOURS/CERTIFICATE AND INJECTIONS GIVEN/RECEIVED
Licensed practitioners come to our course for the 12 hours of Lecture/Didactic and the 12 hours of Technique/Clinical. Participants wishing to earn the Didactic and Clinical hours must successfully pass both a clinical and written exam. Didactic education includes, but is not limited to the following: Anatomy, Physiology, Pharmacology, techniques, patient assessment, and medical emergencies. A minimum of three each, of the following injections, are completed successfully by our course participants: Anterior Superior Alveolar, Middle Superior Alveolar, Posterior Superior Alveolar, Inferior Alveolar, Nasopalatine, Greater Palatine, Incisive Nerve Block, and Buccal Nerve Block.

COURSE LOGISTICS AND LOCATION
This class is Three Full Days, Friday - Sunday, January 17-19, 2020. Day One: 7:00am to 5:00pm; Day Two: 7:30am to 5:00pm; Day Three: 7:30am to 5:00pm – Lunch provided all three days. Class held at the University of Colorado Anschutz Medical Campus in Aurora, Colorado. One week prior to the class start date, we announce the detailed building and room/clinic information, as well as directions to campus and parking availability, to registered participants.

TESTIMONIALS FROM OUR PREVIOUS PARTICIPANTS
Here are testimonials and endorsements from our previous course participants:
+ Of all the courses I have taken I liked how this one was done the most. I think all the presenters complimented each other well. I did really like the fact we could get all of this done in 3 days! - H. Lowry
+ I like the level of experience and knowledge of all the instructors! - L. Campbell
+ The information was presented clearly. – T. Turner
+ The instructors! Each person was so helpful and comforting. The first day of lecture each [person, including Heidi, made a point to reassure us that we would all be okay. This really helped with my anxiety. – J. Walker
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PREREQUISITES AND REQUIREMENTS

✓ Handbook of Local Anesthesia by Stanley F. Malamed, DDS. Participants are responsible for purchasing their own copy of the textbook. The 7th edition published in August 2019, however the Sixth Edition of the text is acceptable. Prerequisite reading of the text is necessary, prior to the start of the course.

✓ Participants must provide copies of the following documentation no later than three (3) weeks prior to the start of the course to be eligible for course participation (please email copies to Heidi.Utt@UCDenver.edu or fax to 303-724-7059).

- A copy of your current/active Dental Hygienist License
- A copy of your current/active CPR Certification Card
- Proof of your own Malpractice/Liability Insurance
- If Licensing in CO, review the Colorado Revised Statutes 2018 here: https://drive.google.com/file/d/0B-K5DhxXxJZbOUFWejJVSTFyN3c/view
- If Licensing in CO, review the Colorado Dental Board Rules and Regulations 2019 here: https://www.sos.state.co.us/CCR/GenerateRulePdf.do?ruleVersionId=8307&fileName=3%20CCR%20709-1

✓ Participants are required to bring a patient with them on Sunday, January 19, 2020 from 1:00pm to 4:00pm.
  - We release detailed information to participants upon receipt of registration and include guidelines for types of patients required during the last clinic session.
  - If you are unable to receive injections due to health reasons (allergies, pregnancy, etc.; there must be a proven medical reason) please notify us as soon as possible. If this should occur, you will need a patient to ‘sit-in’ for you (the other course participants will be injecting the patient you provide).
  - If you are unable to bring your own patient and/or cannot receive injections, we may be able to provide you with a patient, based on availability, and at an additional cost – please contact our Continuing Dental Education Office for details. We must have all patient requests by Wednesday, January 8, 2020. Upon request, CDE will provide a listing of potential patients to you, with which you will contact and negotiate pricing, timing, etc.

WHAT TO WEAR AND/OR BRING WITH YOU TO CLASS

Day One: Please feel free to wear what you like, comfortable clothing recommended, and dress in layers (in case you get too cold/hot). You may want to also bring snacks for yourself; lunch provided. Bring your book, your laptop (if you would like to access Dropbox) and/or your own printed PowerPoint Presentations (if you would like, from the same Dropbox). We will provide any essential in-class materials.

Day Two and Three: Please wear scrub attire and/or a lab coat/gown for clinic activities. You may want to also bring snacks for yourself; lunch provided. Bring your book, your own protective eyewear, as well as protective eyewear for your
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patient(s), and your own Blood Pressure Cuff (if you do not want to use a manual blood pressure cuff). We will provide any necessary clinical instruments and/or any essential in-class materials. If you choose to use your own specific clinical instruments for your afternoon patient, we can provide you with a sterilization bag for transport, but we will not be able to sterilize your personal instruments.

PREREQUISITE OBJECTIVES
Prior to the course on local anesthetic technique, the participant should be able to:
- Secure and evaluate the patient’s medical history and vital signs.
- Administer cardiopulmonary resuscitation (CPR).
- Locate and use emergency equipment in their own practice setting.
- Utilize good aseptic technique during patient treatment.

COURSE OBJECTIVES
Upon completion of this course, participants will be able to:
- Trace and/or locate the branches of the second and third divisions of the trigeminal nerve.
- Discuss the specific structures innervated by the parts of cranial nerve V.
- Identify or be familiar with the following information about the most commonly used local anesthetic solutions in dentistry (Lidocaine, Mepivacaine, Prilocaine, Articaine, Bupivacaine).
  - Generic vs. common or commercial name
  - Commonly used concentrations
  - Chemical classification – amide or ester
  - Vasoconstrictor most commonly used and its concentration
  - Approximate duration of action
  - Area or method of biotransformation
  - Maximum safe dose (MSD) in milligrams and cartridges for a normal adult patient
- Identify the parts and functions of the anesthetic armamentarium.
- Discuss and demonstrate the assembly of an aspirating anesthetic syringe.
- Explain the rationale and technique for aspirating before injecting anesthetic solution.
- Consistently demonstrate effective aspiration technique when administering local anesthetic.
- Evaluate your own or another person’s selection of anesthetic armamentarium, including type of needle and anesthetic solution for any given patient.
- Discuss the reasons for incorporating a vasoconstrictor into local anesthetic solutions.
- Identify the physical conditions, which limit or eliminate the use of vasoconstrictors.
- Discuss the relationship between tissue inflammation and the effectiveness of local anesthetic drugs.
- Compare the advantages and disadvantages of providing topical analgesia.
- Differentiate between a toxic reaction and an allergic reaction with respect to:
  - Cause
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- Symptoms
- Treatment
  - Characterize the cause, symptoms and treatment for the following:
    - Muscle trismus
    - Hematoma
    - Tissue sloughing
    - Simple syncope
- Evaluate the speed at which anesthetic solution is deposited during any procedure.
- Demonstrate aseptic technique throughout the local anesthesia set-up and procedure.
- Determine which injection(s) is/are appropriate for any given clinical situation within the scope of this course.
- Select the correct site of needle penetration and of anesthetic solution deposition for each of the injections learned.
- Calculate the amount of anesthetic drug administered in milliliters, cubic centimeters (cc), milligrams, and cartridges.
- Continually assess the patient’s response during the injection procedure.
- Identify the effect of various personal characteristics, e.g., age, fatigue, etc., on the pain threshold.
- Provide both verbal and non-verbal reassurance to the patient during the injection procedure.
- Administer first aid or secure appropriate help for any local anesthetic complications.
- Record and complete information regarding the injection on the patient’s treatment record.
- Use patient data for pretreatment assessment to determine armamentarium, treatment modification, and potential for an emergency.
- Discuss methods of reducing the possibility of systematic toxicity.
- Predict and explain what effect and sensations a patient is likely to experience with any given local anesthetic injection.
- Begin to integrate the overall experience of local anesthetic injections so that you can discuss them with patients or peers.

YOUR PRESENTERS AND CREDENTIALS

Meghan Crow, RDH, BS, Clinical Instructor and Course Co-Director
Department of Surgical Dentistry, University of Colorado School of Dental Medicine

Ms. Crow is a graduate of the University of Colorado with a Bachelor of Science degree in Dental Hygiene. She currently works both in the Postgraduate Periodontics program and as clinical faculty for the Pre-doctoral Program. She has been actively involved in teaching this course, since 2011, as well as participating in the laboratory sessions involving local anesthesia for the dental students.
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Manti Lehn, RDH, BS, Clinical Assistant Professor and Course Co-Director
Department of Surgical Dentistry, Division of Periodontics, Postdoctoral Periodontics Program
University of Colorado School of Dental Medicine

Ms. Lehn is a Clinical Instructor in the Department of Surgical Dentistry at the University of Colorado School of Dental Medicine. Here at CU, Ms. Lehn has taught local anesthesia to licensed dental practitioners, since 2009. She also helps teach with the laboratory portion of the local anesthesia course given to dental students. She has treated patients in the Postgraduate of Periodontics Program. Ms. Lehn has a Bachelor of Science degree in Dental Hygiene from the University of Colorado School of Dental Medicine.

Lonnie R. Johnson, DDS, PhD, BS, Professor
Department of Family Medicine, Department of Surgical Dentistry, Division of Periodontics
University of Colorado School of Dental Medicine

Dr. Johnson received a Certificate in Periodontics and a Ph.D. in Biological Structure (Anatomy) from the University of Washington. He joined the faculty at the University Of Colorado School Of Dental Medicine in 1985 and is currently the Senior Associate Dean for Clinics and Professional Practice. Prior to assuming duties at the School of Dental Medicine, Dr. Johnson was associated with the University of Washington in the Department of Neurological Surgery and the Department of Periodontics. His research interests center on the normal and traumatized structure of oral cavity-related brain stem nuclei. He has been actively involved in this continuing education course since 1987. He also maintains a private practice here at the dental school.

Michael G. Savage, DDS, BS, Professor Emeritus
Department of Surgical Dentistry, University of Colorado School of Dental Medicine

Dr. Michael G. Savage is a 1972 graduate of University of California, San Francisco School of Dentistry. He remained at UC for a fellowship in Oral Medicine. He entered the Air Force as a general dentist in 1973. He retired as Special Consultant in Oral and Maxillofacial Surgery to the Air Force Surgeon General culminating a 22-year Air Force career. Dr. Savage is a Diplomat of the American Board of Oral and Maxillofacial Surgery. He is currently a Professor in the Division of Oral and Maxillofacial Surgery at the University Of Colorado School Of Dental Medicine. He has taught many levels of students from lay public through dental postgraduate specialty residents.
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COURSE TUITION(s) AND INCLUSIONS: Start Date is Friday, January 17, 2020

Standard Price of $995.00 for all three days (lectures and clinic exercises); $500.00 deposit saves your seat

- Twenty-Four (24) hours of in-class, live, interactive education, as well as hands-on clinic practice
- Presenters’ notes, presentation, contact information, and much more (we no longer physically print materials, unless they are absolutely needed for in-class use; you are welcome to bring a laptop to follow the presentations during class); Dropbox, loaded with class materials before class begins, we will email the link to all registrants
- Participants who attend the class in full earn 24 Continuing Education Credit Hours, a Certificate of Completion from the Continuing Dental Education Program (certificates awarded to participants who complete both the class evaluation and the needs assessment forms). Sign in on class attendance roster(s) required.
- Participants who attend the class in full, pass the final written exam, and complete all the course activities, earn everything listed above.

COURSE REGISTRATION PROCESS AND DEADLINE

The Continuing Dental Education Program does not follow the traditional schedule and/or deadlines as the School of Dental Medicine and/or the University of Colorado Anschutz Medical Campus. Please have your registration completed through RegOnline (link to class registration page listed below) no later than three-weeks before the class start date, which is Friday, December 27, 2019.

Participants are able to register right up to the start date based on availability. However, participants must fulfill all the Prerequisites and Requirements, and be licensed inside the state of CO (out-of-state licensees MUST register and complete prerequisites/requirements three-weeks early). Be aware, if you wait until the last minute the class may be full, your in-class and/or hands-on materials may not be immediately available. In short, please register early and do not procrastinate – you may miss-out!

The Registration Process through RegOnline is FREE! Do not struggle on your own; always contact the Continuing Dental Education Program if you have any questions, concerns, and/or comments. We would love to hear from you! We would like to have your registration in the RegOnline system by Friday, December 27, 2019. Here is the Class RegOnline Registration Page: https://www.regonline.com/registration/Checkin.aspx?EventID=2572386

CLASS DROP/WITHDRAW DEADLINE

Please understand our program must make decisions in a timely manner, order supplies, and budget accordingly…

Any registrant who chooses to drop/withdraw from this course, for any reason, must do so in writing, by emailing a drop/withdraw request/notification to Heidi Utt at Heidi.Utt@UCDenver.edu.
- If a registrant Drops/Withdraws from this course before 5 pm on Friday, December 27, 2019 (Full Tuition Refund, minus an $95 Cancellation Fee)
- If a registrant Drops/Withdraws from this course after 5 pm on Friday, December 27, 2019 (Half Tuition Refund)
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If an emergency does occur before and/or during a course you registered for, which completely restricts you from attending class, there are policies and procedures for dropping/withdrawing after this deadline – contact CDE/Heidi Utt. Please be fully aware, we may not be able to provide you with a refund after this deadline, if your justification/explanation does not meet university requirements.

TRAVEL ACCOMMODATIONS
If you are travelling-in to attend this course, we have some recommendations for you. The easiest physical address to use, for locating area accommodations, is our School of Dental Medicine Building, which is at 13065 East 17th Avenue, Aurora, CO 80045.

SpringHill Suites by Marriott Denver at Anschutz Medical Campus (mention you are with the University for Discounts)
13400 East Colfax Avenue, Aurora, Colorado 80011; Phone: 720-859-1100

Hyatt Regency Aurora-Denver Conference Center
13200 East 14th Place, Aurora, Colorado 80011; Phone: 303-365-1234

The Anschutz Medical Campus is approximately a half-hour away from the Denver International Airport (DIA)
Denver International Airport - https://www.flydenver.com/
Regional Transportation District (trains, light-rails, buses, etc.) - http://www.rtd-denver.com/
Denver Yellow Cab/Taxi – 303-777-7777
Lyft - https://www.lyft.com/
Uber - https://www.uber.com/

CONCERNING THE AMERICAN DENTAL ASSOCIATION (ADA)
CONTINUING EDUCATION RECOGNITION PROGRAM (CERP)
The American Dental Association Continuing Education Recognition Program (ADA CERP) accredits the University of Colorado (CU) School of Dental Medicine (SDM). Our accreditation/provider is important to us. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry.

To ensure balance, independence, objectivity, and scientific rigor at all programs, the planners and faculty must make full disclosure indicating whether they and/or their immediate family (includes spouse/partner) have any relationships with pharmaceutical companies, biomedical device manufacturers, and/or corporations whose products or services are related...
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to pertinent therapeutic areas. All planners, faculty, content specialists, and feedback specialists participating in Continuing Dental Education (CDE) activities must disclose to the audience information listed above. If relevant relationships are not disclosed, we must disqualify all parties from the planning and implementation of this CDE activity.

ADA C·E·R·P® Continuing Education Recognition Program