



Local Anesthesia for the Dental Assistant: A 45-hour Training Program

2024 Sessions

Course Director: Jill Hormann, BDSH, MSDH

Preliminary Schedule

Part A: Didactic Instruction - 25 Hours

12.5 hours video lectures (recorded and via zoom)

12.5 hours readings, quizlets, and worksheets

Unit 1: Welcome/Course Introduction

Zoom 6:30-8:00pm

- Course Director and contact information
- Course overview
- Google Drive overview
- Uploading your videos and writing assignment to Google Drive
- Turning in your assignments
- Q&A session

Unit 2: Introduction to Local Anesthesia

View the recorded lecture [here](#)

- 2A Pain, Fear, Anxiety and Management
- 2B Selection and preparation of armamentarium
- 2C Topical anesthesia
- 2D Trigeminal nerve
- 2E Basic injection technique
- 2F Proper disposal of sharps
- 2G Types of injections
- 2H Documentation
- 2I Sharps injury prevention/Risk Management

Unit 3: Reading Assignment and Questions

- Read [Logothetis](#) Chapters. 1, 6, 9, 10, and 11
- Complete quizlet found in folder 3 of Google Drive (80% passing rate or retake required)

Unit 4: Pharmacology and Neurophysiology

View the recorded lecture [here](#)

- 4A Neurophysiology
- 4B Pharmacology of local anesthetics
- 4C Pharmacology of vasoconstrictors
- 4D Anesthetic agents

Unit 5: Reading Assignment and Quizlet

- Read [Logothetis](#) Chapters 2, 3, 4, & 5
- Complete quizlet found in folder 5 of Google Drive (80% passing rate or retake required)

Unit 6: Patient Assessment and Maximum Recommended Dose

View the recorded lecture [here](#)

- 6A Patient Assessment
- 6B Indications for administration of local anesthetics
- 6C Contraindications for administration of local anesthetics
- 6D Absolute contraindications
- 6E Relative contraindications
- 6F Calculating maximum recommended dose

Unit 7: Reading Assignment and Worksheet

- Read [Logothetis](#) Chapters 7 and 8
- Complete Modifications Worksheet (see folder 7 in Google Drive).
Print your completed worksheet and bring it with you for your onsite training.

Unit 8: Complications and Management

View the recorded lecture [here](#)

- 8A Local complications
- 8B Systemic complications
- 8C Prevention, diagnosis, and management of medical emergencies
- 8D Medications in a standard emergency kit
- 8E Risk Management

Units 9 and 10: Reading Assignment and Worksheet

- Read [Logothetis](#) Chapters 15 and 16
- Complete Toxicity Worksheet (See folder 9 in Google Drive).
Print your completed Toxicity Worksheet and bring it with you for your onsite training.
- Complete Emergency Kit Worksheet (see folder 10 in Google Drive).
Print your completed Emergency Kit Worksheet and bring it with you for your onsite training.

Unit 11: Supraperiosteal Technique

View the recorded lecture [here](#)

- 11A Anatomy
- 11B Anesthetic agents for SPs
- 11C Facial/Buccal SPs
- 11D Palatal SPs
- 11E Pediatric Considerations for SPs

Unit 12: Reading Assignment and Quizlet

- Read [Logothetis](#) Chapters 10, 12 (pages 412-417), 13 (pages 519-521), and 14
- Read [Use of Local Anesthesia for Pediatric Dental Patients](#)
- Complete quizlet found in folder 12 of Google Drive (80% passing rate or retake required)

Unit 13: Overview of Injection Techniques

View the recorded lecture [here](#)

Unit 14: Reading Assignment and Quizlet

- Review Videos of Injection Techniques [here](#)
- Review [Logothetis](#) Chapters 12 (excluding pages 412-417) and 13 (excluding pages 519-521)
- Complete quizlet found in folder 14 of Google Drive (80% passing rate or retake required)

Part B: Injection Experience - At-home or Workplace Clinic - 5 Hours

For these assignments, you will need to borrow a syringe, cartridge, and needle from your place of employment. Participants must also purchase one bone-in piece of chicken.

Unit 15: Injection Assignment Overview

View the recorded lecture [here](#)

Unit 16: Assignments

Upload short and clear videos to Folder 16 in Google Drive:

Video Assignment 16A: Properly load a syringe

- Inspect cartridge prior to use
- Breech load cartridge into the syringe
- Engage harpoon without excessive force
- Upload to video to Google Drive: LASTNAME16A

Video Assignment 16B: Demonstrate supraperiosteal technique on a chicken wing

- Penetrate just a few mm of an extra short or short needle
- Demonstrate proper aspiration
- Demonstrate proper rate of deposition
- Demonstrate proper amount of deposition
- Upload to video to Google Drive: LASTNAME16B

Video Assignment 16C: Safe recapping technique

- Demonstrate the one-handed scoop technique (you may use a recapping device if your office has one)
- Properly disassemble the syringe and dispose of sharps
- Upload to video to Google Drive: LASTNAME16C

Writing Assignment 16D: Self-assessment

- Use 300 words or fewer to describe the following:
 - As you make contact with the chicken wing, describe the difference between soft tissue and hard tissue/bone.
 - Describe the steps that you will take to ensure that bone is not contacted as you complete a supraperiosteal injection.
 - What steps did you use to complete a successful supraperiosteal injection?
 - Upload writing assignment to Google Drive LASTNAME16D

Part C: On-campus Hands-on Injection Instruction and Practice - 15 Hours

Saturday • 7:30 AM to 5:00 PM - 30 MAXILLARY SPs

7:30 AM Registration and light breakfast

8:00 AM Welcome, introductions, log book
Review medical emergency preparedness (call 911, show emergency kit, oxygen, and AED locations)

8:15 AM Faculty Demo Armamentarium and Basic Injection Technique
SP #8, SP #25, SP #3L, SP #14L

8:45 AM Anatomical Landmarks on Partner

9:30 AM Break

9:45 AM Participants Assemble Armamentarium and start Manikin Practice
Each participant completes and logs a minimum of 22 SPs:
14 Facial/Buccal SPs
8 Palatal SPs (Maxillae)

11:45 AM Lunch

12:15 PM Continue Manikin Practice (if needed)

1:30 AM Partner Practice

Each participant completes 8 SPs Total: 2 maxillary molars, 2 maxillary premolars, 2 maxillary incisors & 2 palatal infiltrations

15-minute break as needed during this session

5:00 PM Adjourn

Sunday • 7:30 AM to 3:00 PM - 20 MANDIBULAR SPs

7:30 AM Breakfast and coffee available

8:00 AM Q&A

9:00 AM Manikin SP Practice

Finish Maxillary SPs on partner or manikin (if needed)

Each participant completes a minimum of 14 Facial/Buccal SPs

15-minute break as needed during this session

12:00 PM Lunch

12:30 PM Partner SP Practice

Each participant completes 6 SPs Total: 2 mandibular molars, 2 mandibular premolars & 2 mandibular incisors

15-minute break as needed during this session

2:30 PM Calibrated Faculty will sign log of all successfully completed SPs (50 total)

Take a Picture and Upload to Folder 17 in Google Drive labeled "LASTNAME Final Log"

3:00 PM Adjourn & Course Wrap Up

Continuing Dental Education will provide paperwork for BOD Certification, emailing each participant and the MN Board of Dentistry the course completion documentation.

The University of Minnesota School of Dentistry has an obligation to disseminate new knowledge related to dental practice. Some programs offered through Continuing Dental Education may introduce materials, techniques or product references that are subject to debate. Sponsorship of courses by the University of Minnesota School of Dentistry does not necessarily imply endorsement of specific philosophies, procedures or products by this institution. Recognizing that you may be learning about new procedures, techniques and materials that you may not yet be familiar with, we ask that you take every precaution when implementing these new materials and techniques into your practice.

The University of Minnesota School of Dentistry is an ADA CERP Recognized Provider.

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.

Concerns or complaints about a CE provider may be directed to the provider or to the Commission for Continuing Education Provider Recognition at ADA.org/CERP.