



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

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.**

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