

Virginia Western Community College

DNH 235

Management of Dental Pain and Anxiety

Prerequisites:

Successful completion of the first three semesters of the Dental Hygiene curriculum including DNH 115, 120 and 216.

Course Description:

Provides a study of anxiety and pain management techniques used in dental care. Students will understand the necessary theory to appropriately treat, plan and successfully administer topical anesthesia, local anesthesia, and nitrous oxide/oxygen analgesia. Includes the components of pain, pain control mechanisms, topical anesthesia, local anesthesia and nitrous oxide/oxygen analgesia.

Semester Credits: 2**Lecture Hours: 1****Lab/Clinical/Internship Hours: 2****Required Materials****Textbook:**

Local Anesthesia for Dental Professionals. Bassett, DiMarco & Naughton. (2015). 2nd Edition. Pearson

Course Outcomes

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

- Implement a review of the medical history and assess the psychological profile of a patient prior to the administration of local anesthesia or nitrous oxide–oxygen sedation.
- Identify the pharmacologic actions and anatomical considerations for the administration of local anesthetic agents.
- Differentiate the clinical actions of specific anesthetic agents.
- Demonstrate the proper assembly of the local anesthetic armamentarium.
- Demonstrate maxillary/mandibular infiltration and block anesthesia techniques to laboratory competency on a classmate.
- Define the potential complications and management of emergencies when administering local anesthesia.
- Describe the protocols for use of topical anesthetics.

- List indications and contraindications for the use of nitrous oxide/oxygen sedation.
- Demonstrate knowledge and use of the nitrous oxide/oxygen sedation armamentarium.
- Demonstrate to laboratory competency, on a classmate, nitrous oxide-oxygen sedation techniques.
- Define the potential complications and management of emergencies when administering nitrous oxide/oxygen analgesia.

General Course Purpose

This course allows students to attain entry-level competency in administration of anesthesia and analgesics to manage pain and anxiety in the dental healthcare setting.

Topical Description

- Pain Control Concepts
- Armamentarium
- Basic Injection Technique
- Anatomy Review
- Maxillary Technique: Buccal
- Maxillary Technique: palatal
- Neurophysiology
- Pharmacology
- Anesthetic Agents and Vasoconstrictors
- Dosage Calculations
- Mandibular Techniques
- Patient Assessment
- Local and Systemic Complications
- Management of Emergencies
- Supplemental Injections
- Troubleshooting Inadequate Anesthesia
- Nitrous Oxide: Oxygen Sedation

Lab Topics

- Preparation of Armamentarium
- Injection Technique Practice on fruit
- Proper Disposal of Sharps
- Maxillary Injections on partners
- Mandibular Injections on partners
- Nitrous Oxide: Oxygen Technique Demo
- Nitrous Oxide Competency
- Local Anesthesia Competency

Note to Instructors