Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

DEH 2503 - Pain Control in the Dental Practice

Division: Health Sciences

Department: Dental Health Sciences

Credit Hour Total: 1.0 **Lab Hrs:** 2.0

Prerequisite(s): DEH 2402AND DEH 2403

Other Prerequisite(s): Restricted to Majors

Date Revised: February 2014

Course Description:

Laboratory and clinical training in the administration of local anesthesia and nitrous oxide sedation.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Local Anesthetic Selection
Discuss the criteria involved in the selection of an appropriate anesthetic agent including a patient's medical history, the procedure to be performed and the desired duration of anesthesia.

Assessment Method: Simulations
Performance Criteria:

80% or higher achieved

Anesthesia Competencies
Demonstrate clinical competency for outcomes one, three and four and correctly and safely administer each of the required injections on human subjects.

Assessment Method: Locally developed exams
Performance Criteria:

70% or higher

Assessment Method: Performance appraisals
Performance Criteria:

80% or higher achieved

Physiology and Perception of Pain
Describe the theory of pain and delineate the physiological and psychological aspects of pain sensation and its treatment.

Assessment Method: Locally developed exams
Performance Criteria:

70% or higher

Assessment Method: Performance appraisals
Performance Criteria:

80% or higher

Infection Control
Identify and apply appropriate infection control standards in the preparation, delivery, disposal and sterilization of local anesthesia and nitrous oxide armamentaria and supplies.

Assessment Method: Locally developed exams
Performance Criteria:

70% or higher achieved

Assessment Method: Performance appraisals
Performance Criteria:

80% or higher achieved

Armamentarium and Protocol for Local Anesthesic Delivery
Assemble the armamentarium appropriate for local anesthetic delivery and demonstrate accepted techniques in local anesthetic administration.

Assessment Method: Performance appraisals
Performance Criteria:

80% or higher achieved

Nitrous Oxide Competency
Identify the various components of the nitrous oxide sedation unit and demonstrate the protocol for the induction, maintenance and discontinuation of nitrous oxide sedation on a human subject.

Assessment Method: Locally developed exams
Performance Criteria:

75% or higher achieved

Assessment Method: Performance appraisals
Performance Criteria:

80% or higher achieved

Anatomical considerations for Local Anesthesia
Outline the gross anatomy of the maxilla, mandible and closely associated structures and relate this information to the administration of local anesthesia in the oral cavity.

Assessment Method: Locally developed exams
Performance Criteria:

70% or higher

Assessment Method: Performance appraisals
Performance Criteria:

80% or higher

Patient Evaluation
Summarize the evaluation criteria for the local anesthetic candidate and address potential concerns revealed by physical evaluation and the medical history questionnaire.

Assessment Method: Locally developed exams
Performance Criteria:

70% or higher

Assessment Method: Performance appraisals
Performance Criteria:

80% or higher

Etiology, Diagnosis and Management of Complication
Delineate potential adverse local and systemic outcomes associated with the administration of local anesthetics and nitrous oxide and discuss the management of patients displaying complications and/or emergencies associated with these agents.

Assessment Method: Locally developed exams
Performance Criteria:

70% or higher

Assessment Method: Performance appraisals
Performance Criteria:

80% or higher

Outline:

Local Anesthesia and Nitrous Oxide Sedation Armamentaria

Anatomical Considerations of Local Anesthesia Delivery

Infection Control Modalities

Clinical Administration of Local Anesthetics and Nitrous Oxide