

DH 78 Course Outline as of Summer 2000**CATALOG INFORMATION**

Dept and Nbr: DH 78

Title: LOCAL ANES

Full Title: Local Anesthesia/Nitrous Oxide Conscious Sedation

Last Reviewed: 2/7/2022

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	1.50	6	Lecture Scheduled	9.00
Minimum	1.00	Lab Scheduled	4.00	6	Lab Scheduled	24.00
		Contact DHR	0		Contact DHR	0
		Contact Total	5.50		Contact Total	33.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 18.00

Total Student Learning Hours: 51.00

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

Catalog Description:

A course covering the techniques of pain control by the administration of local anesthetics. The course will prepare the student for management of the more complex clinical client during advanced dental hygiene care procedures.

Prerequisites/Corequisites:

Course Completion of DH 75

Recommended Preparation:**Limits on Enrollment:****Schedule of Classes Information:**

Description: A course covering the techniques of pain control by the administration of local anesthetics. The course will prepare the student for management of the more complex clinical client during advanced dental hygiene care procedures. (Grade Only)

Prerequisites/Corequisites: Course Completion of DH 75

Recommended:

Limits on Enrollment:

Transfer Credit: CSU;
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:

IGETC:	Transfer Area	Effective:	Inactive:
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CSU Transfer:	Transferable	Effective:	Summer 2000	Inactive:
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UC Transfer:	Effective:	Inactive:
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CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

The student will be able to:

- A. Assess each patient's health history to determine their suitability to receive local anesthetics, vasoconstrictors, and determine if modifications to the dental hygiene care plan are required.
- B. Describe the physiological mechanism of nerve conduction.
- C. Describe each of the anesthetic agents and vasoconstrictors used in dentistry and discuss the rationale behind the selection of a particular agent when providing dental hygiene care.
- D. Calculate the maximal safe dose of each local anesthetic agent and vasoconstrictor for each patient.
- E. Assemble, disassemble and properly maintain the armamentarium required for administration of local anesthetics.
- F. Identify the anatomical landmarks on both a skull and a patient for the following injections: suprapariosteal/local infiltration, anterior/superior alveolar nerve block, infraorbital nerve block, middle superior alveolar nerve block, posterior superior alveolar nerve block, greater palatine nerve block, nasopalatine nerve block, inferior alveolar nerve block, lingual nerve block, buccal nerve block, mental nerve block, incisive nerve block.
- G. Identify which nerve, teeth and soft tissue structures are anesthetized with each of the preceding injections.
- H. Administer local anesthetics to a classmate and clinical patients following procedural guidelines for each of the preceding injections.
- I. Identify the local complications which may result from the administration of anesthetic agents and the proper management of these complications.
- J. Recognize and assist in the management of any systemic complication which may result from the administration of anesthetic agents.

Topics and Scope:

Local Anesthesia

1. Physiology of nerve conduction
2. Pharmacology of local anesthetics and vasoconstrictors
3. Pre-anesthetic Client Assessment
4. Armamentarium-usage and troubleshooting
5. Anatomic review of oro-facial structures
6. Local Anesthetic Administration Technique
7. Complications and Their Management
8. Emergency Management/CPR Review

Assignment:

Practice assembly of nitrous oxide equipment
Hazards of Nitrous Oxide Paper
Practice injections on models

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams, Skills

Problem solving
10 - 60%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, Field work, Performance exams

Skill Demonstrations
10 - 80%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion

Exams
5 - 50%

Other: Includes any assessment tools that do not logically fit into the above categories.

Professionalism: See file for criteria used in evaluation.

Other Category
5 - 30%

Representative Textbooks and Materials:

Dental Hygiene Theory & Practice. Darby. M. and Walsh, M. WB Saunders,
Philadelphia, 1996

Periodontal Instrumentation, Pattison, A. and Pattison, G., Norwalk:
Appleton and Lange, 1992

Clinical Practice of the Dental Hygienist 7th Ed.. Wilkins, E.M., Malvern:
Williams & Wilkins. 1990

SUPPLEMENTARY TEXT: Medical Emergencies in the Dental Office, 4th Ed.,
St. Louis, CV Mosby, 1993