

COURSE INFORMATION

COURSE PREFIX/NO: **DHG 115**
COURSE TITLE: **Medical and Dental Emergencies**
LEC HOURS/Week: 2.0
LAB HOURS/Week: 0.0
CREDIT HOURS/Semester: 2.0

DL ATTENDANCE/VA STATEMENT TEXTBOOK INFORMATION

COURSE DESCRIPTION:

This course provides a study of the various medical/dental emergencies and appropriate treatment measures. Additionally, it includes managing medically compromised dental client and provides for CPR certification.

Co-Requisites: DHG 125, DHG 154

Pre-Requisite: Admission to the Dental Hygiene Program

ENTRY LEVEL SKILLS: None

COURSE COMPETENCIES:

1. Understand the importance of an accurate and complete medical history including vital signs.
2. Be familiar with the operation of the oxygen tank in the clinic and the components of the emergency kit.
3. Identify common emergencies that can occur in a dental office and respond with appropriate action, including reactions to local anesthetics.
4. Identify clients with cardiovascular disorders and determine the management prior to, during and after dental treatment.
5. Determine the management of client who suffer with respiratory disorders.
6. Identify clients with a history of neurocerebral disorders and determine the appropriate management prior to, during and following dental treatment.
7. Determine the correct pre-operative management of clients with diabetes and explain the use of insulin in treating diabetes.
8. Identify patients with kidney and liver disease and determine the proper management during dental treatment.
9. Identify various types of allergic reactions and their treatment.
10. Be familiar with various types of blood disorders and how they can influence dental treatment.

11. Be familiar with the management of immunocompromised clients to include those with a history of Sexually Transmitted Diseases, HIV, AIDS, Lupus, Arthritis, Prosthetic Implants and organ transplants.

TEXT

Clinical Practice of the Dental Hygienist, Wilkins, 8th ed.
Lecture Manual, Clinic Manual

REFERRAL TEXT

Medical Emergencies in the Dental Office, Malamed
Dental Management of the Medically Compromised Patient, Little & Falace

COURSE REQUIREMENTS

In order to successfully complete DHG 115, the student is required to fulfill the following requirements:

1. attend all lecture sessions
2. take all written tests and quizzes
3. complete all assignments as required by course instructor
4. complete the Medical Emergencies Program in CAI Lab
5. each student must be currently certified in CPR by the American Heart Association or the American Red Cross

METHODS OF INSTRUCTION

Lecture
Discussion Demonstrations Overhead projections Audio-visual aids Applications Written tests

EVALUATION

STRATEGIES Testing

Students will be evaluated in Dental Emergencies and Medicine by weekly quizzes, tests and a final examination. The tests will be multiple choice, matching, fill in the blank and theory application questions (short essay). The competency skill evaluation must be completed to an 80% proficiency level.

Remedial Action

Students must meet the 80% proficiency level in order to successfully complete DHG 115
Students must meet the 80% proficiency level in order to successfully complete DHG 115. Students who fail to meet the criteria will be dismissed from the Dental Hygiene Program.

Absenteeism

Students are expected to attend all lecture sessions. In case of an unavoidable absence students must contact the instructor prior to the class. Any student who is absent on a test day will automatically have seven (7) points deducted from the test grade. Students who are absent on a day a quiz is given will not have the opportunity to make up the quiz and will be given a grade of zero "0" for that quiz. **If a student is absent for more than three (3) consecutive days, a doctor's statement will be needed.**

Students are responsible to make an appointment with the Instructor to set up a time to make-up the test. Students must make up the missed test within one (1) week or a grade of 0 will be given for that test.

Tardiness: Any student who is not punctual to class will not be allowed to enter class until a break is given. Three (3) tardies will count as one (1) absence.

Any absence in excess of three (3) will be grounds for dismissal from the DHG Program.

GRADING

The final grade scale for DHG 115 is as follows:

100-94 A
93-87 B
86-80 C
79-below F

The grade for DHG 115 will be determined as follows:

Quizzes averaged as one (1) major test grade

Written tests 75%

Midterm 10%

Comprehensive Final 15%

100%

MEDICAL AND DENTAL EMERGENCIES DHG 115 COURSE OUTLINE

I. Introduction - Prevention

A. Medical/Dental History

1. history taking
2. dialogue history
3. physical inspection
4. vital signs - define
5. medical consultations
6. ASA Classification
7. summary
8. up-date history

II. Vital Signs

A. Blood Pressure

1. equipment
2. technique
3. documentation
4. contraindications

B. Pulse

1. technique
2. documentation
3. contraindication

C. Respiration

1. technique
2. documentation
3. contraindication

D. Temperature

1. technique
2. equipment
3. documentation
4. contraindication

III. Emergency Drugs and Equipment

A. Injectable Drugs

1. routes of administration
2. preparation
3. types

B. Noninjectable Drugs

1. oxygen
2. vasodilator

C. Primary Emergency Equipment (critical)

1. injectable
2. noninjectable
3. emergency equipment
 - a. oxygen
 - b. suction & suction tips
 - c. tourniquets
 - d. syringes

IV. General Preparation

1. training
2. team management
3. emergency practice drill
4. outside medical assistance

V. Unconsciousness

A. Syncope

1. etiology
2. symptoms
3. prevention
4. treatment

B. Postural Hypotension

1. etiology
2. symptoms
3. prevention
4. treatment

VI. Respiratory Distress

A. Airway Obstruction

1. etiology
2. symptoms
3. prevention
4. treatment

B. Hyperventilation

1. etiology
2. symptoms
3. prevention
4. treatment

C. Asthma

1. etiology
2. symptoms
3. prevention
4. treatment

D. Heart Failure Acute Pulmonary Edema

1. etiology
2. symptoms
3. treatment

- E. Tuberculosis
 - 1. definition
 - 2. etiology
 - 3. symptoms
 - 4. treatment
 - 5. dental management

VII. Altered Consciousness

- A. Diabetes Mellitus
 - 1. etiology
 - 2. symptoms
 - 3. prevention
 - 4. treatment
- B. Cerebrovascular Accident
 - 1. types/etiology
 - 2. symptoms
 - 3. prevention
 - 4. treatment

VIII Cardiovascular Disorders

VIII. Cardiovascular Disorders

- A. Congestive Heart Failure
 - 1. causes
 - 2. symptoms
 - 3. drug therapy/treatment
- B. Angina Pectoris
 - 1. symptoms
 - 2. prevention
 - 3. drug therapy/treatment
- C. Myocardial Infarction
 - 1. terms
 - 2. symptoms
 - 3. causes
 - 4. drug therapy/treatment
- D. Congenital Heart
 - 1. etiology
 - 2. dental considerations
 - 3. types
- E. Rheumatic heart
 - 1. rheumatic fever
 - 2. effects
 - 3. dental considerations
- F. Subacute Bacterial Endocarditis
 - 1. etiology
 - 2. premedication
 - 3. medications
 - 4. complications
- G. Hypertension
 - 1. definition
 - 2. etiology
 - 3. prevention
 - 4. symptoms
 - 5. dental management

IX. Epilepsy

1. etiology
2. types of seizures
3. drug therapy. treatment
4. prevention

X. Local Anesthesia and Associated Reactions

A. Local Anesthetic Agents

1. types
 2. uses of anesthetic agents
 3. health status of the patient
 4. complications associated with local anesthesia

XI. Common Dental Emergencies

XII. Liver Disease

A. Hepatitis

1. etiology
2. treatment
3. dental considerations and management

B. Alcoholic Liver Disease

1. symptoms
2. dental management

XIII. Renal Failure

1. etiology
2. treatment
3. dental management

XIV. Allergic Reaction

1. etiology
2. treatment
3. dental considerations and management

XV. Blood Disorders

1. types
2. etiology
3. dental considerations and management
4. treatment

XVI. Immunocompromised Clients

A. HIV/AIDS, and other sexually transmitted diseases

1. etiology
2. treatment
3. dental considerations and management

B. Arthritis/Lupus

1. etiology
2. treatment
3. dental considerations and management

C. Organ Transplant

1. types
2. dental considerations and management

D. Prosthetic Implants

1. types
2. dental considerations and management