

D H 312: EMERGENCY PROCEDURES

Foothill College Course Outline of Record

Heading	Value
Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Not open to students with credit in D H 71.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- Students will be able to identify the medications in an emergency drug kit, including the use, dosing and indications/contraindications.
- Students will be able to describe the signs and symptoms of the most common medical emergency which occurs in dental practice. Appropriate intervention will be performed.

Description

This course is a study of common medical emergencies that may occur during delivery of dental care. Emphasis is placed on methods to prevent emergencies from occurring and procedures to manage emergency situations. Ethical and legal aspects in assisting during emergencies are also discussed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

Course Objectives

The student will be able to:

- identify the common medical emergencies that occur in the dental office
- describe the underlying biological processes responsible for the emergency
- describe the signs and symptoms for common medical emergencies
- list procedures to manage common medical emergencies
- indicate the methods to prevent common medical emergencies in the dental office
- identify the drugs and equipment used in the treatment of common medical emergencies and the components of a basic emergency kit and their primary uses in the emergency
- identify patients who are at higher risk for medical emergencies through physical evaluations, such as vital signs and ASA assessment
- practice simulated emergency situations and describe the procedures which would be appropriate in the management of these situations
- describe the legal and ethical responsibilities of the dental team in the management of emergency situations

Course Content

- identify the common medical emergencies that occur in the dental office

- syncope
- postural hypotension
- angina
- acute myocardial infarct
- cerebrovascular accident
- choking
- hyperventilation
- asthma
- drug related emergencies
- diabetes mellitus
- describe the underlying biological processes responsible for the emergency
 - pathophysiology
 - contribution of stress and anxiety
 - pre-existing conditions
- describe the signs and symptoms for common medical emergencies
 - clinical manifestations
- identify procedures to manage common medical emergencies
 - conscious patient versus unconscious patient
 - patient positioning
 - airway-breathing-circulation (BLS)
 - definitive care
 - staff assignments
- examine the methods to prevent common medical emergencies in the dental office
 - medical history assessment
 - dialogue history
 - medical history questions indicating undiagnosed conditions
 - medical history questions indicating ASA status
 - medical consultation
 - treatment modifications
 - stress reduction protocol
 - premedication
 - antianxiety agent
 - appointment planning
 - length of appointment
 - psycho sedation
 - pain control
 - office and staff preparation
 - staff assignments
 - emergency kit expiration date and compressed oxygen availability
 - assignments during an emergency
 - practice drills
 - identify the drugs and equipment used in the treatment of common medical emergencies and the components of a basic emergency kit and their primary uses in the emergency
 - equipment
 - blood pressure cuff and stethoscope
 - oxygen
 - AED unit
 - ambu bag
 - drugs
 - nitroglycerin pills or spray
 - antihistamine
 - epinephrine
 - inhaler
 - analgesic
 - ammonia vaporale
 - glucose
 - evaluate patients who are at higher risk for medical emergencies through physical evaluations, such as vital signs and ASA assessment

1. American Society of Anesthesiologist (ASA) physical status classification system
 - a. ASA I
 - b. ASA II
 - c. ASA III
 - d. ASA IV
 - e. ASA V and ASA VI
- H. practice simulated emergency situations and demonstrate the procedures which would be appropriate in the management of these situations
 1. syncope
 2. postural hypotension
 3. angina
 4. acute myocardial infarct
 5. cerebrovascular accident
 6. choking
 7. hyperventilation
 8. asthma
 9. drug related emergencies
 10. diabetes mellitus
- I. analyze the legal and ethical responsibilities of the dental team in the management of emergency situations
 1. liability to staff and dentist
 2. risk management
 - a. liability insurance
 - b. incident report form
 - c. documentation in the patient chart
 - d. communication strategies
 3. standard of care
 4. respondeat superior
 5. ethics
 - a. patient autonomy
 - 1) informed consent
 - b. nonmaleficence
 - c. veracity
 - d. competence
 - e. integrity

Lab Content

Not applicable.

Special Facilities and/or Equipment

- A. Multi-media lecture room.
- B. Simulated emergency kit contents.
- C. Computer with internet.
- D. When taught via Foothill Global Access, on-going access to computer with email software and hardware; email address.

Method(s) of Evaluation

- A. Multiple choice and short quizzes
- B. Multiple choice midterm and final exam
- C. Essay type homework assignments

Method(s) of Instruction

- A. Lecture
- B. Discussion
- C. Demonstration

Representative Text(s) and Other Materials

Malamed, S.F. Medical Emergencies in the Dental Office. 7th ed. St. Louis: CV Mosby, 2014. ISBN-13: 9978-0323171229 (Textbook is nationally recognized as standard of care)

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

- A. Online assignments and practice test
- B. Essay type assignments for emergency scenarios and ethical dilemma
- C. Chapter readings in assigned textbook, 2-3 chapters per week

Discipline(s)

Dental Technology