

# D A 57: OFFICE EMERGENCY PROCEDURES

## Foothill College Course Outline of Record

Heading	Value
<b>Units:</b>	2
<b>Hours:</b>	2 lecture per week (24 total per quarter)
<b>Degree &amp; Credit Status:</b>	Degree-Applicable Credit Course
<b>Foothill GE:</b>	Non-GE
<b>Transferable:</b>	CSU
<b>Grade Type:</b>	Letter Grade Only
<b>Repeatability:</b>	Not Repeatable

## Student Learning Outcomes

- By the end of the quarter the student will be able to respond to common medical emergencies that occur in dental offices.
- The student will be able to list and identify equipment and medications commonly found in the dental emergency kit.

## Description

Overview of psychological or common medical problems which could lead to an emergency situation in a dental office. Emphasis placed on prevention, management, and legal issues of an emergency response. Intended for students in the Dental Assisting 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
- list procedures to manage common medical emergencies
    - conscious patient versus unconscious patient
    - patient positioning
    - airway-breathing-circulation (BLS)
    - definitive care
    - staff assignments
- indicate the methods to prevent common medical emergencies in the dental office
    - medical history assessment
    - treatment modifications
    - office and staff preparation
- 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
      - oxygen
      - AED unit
      - ambu bag
    - drugs
      - nitroglycerin pills or spray
      - antihistamine
      - epinephrine
      - inhaler
      - analgesic
      - ammonia vaporale
      - glucose
- identify patients who are at higher risk for medical emergencies through physical evaluations, such as vital signs and ASA assessment
    - ASA physical status clarification system
      - ASA I
      - ASA II
      - ASA III
      - ASA IV
      - ASA V
- practice simulated emergency situations and describe the procedures which would be appropriate in the management of these situations
    - syncope
    - postural hypotension
    - angina
    - acute myocardial infarct
    - cerebrovascular accident
    - choking
    - hyperventilation
    - asthma
    - drug related emergencies
    - diabetes mellitus
- describe the legal and ethical responsibilities of the dental team in the management of emergency situations
    - liability to staff and dentist
    - risk management
    - standard of care

4. respondeat superior
5. ethics
  - a. patient autonomy
  - b. nonmaleficence
  - c. veracity
  - d. competence
  - e. integrity

## Lab Content

Not applicable.

## Special Facilities and/or Equipment

- A. Dental units for simulated office situations, oxygen tanks and delivery unit, armamentarium for administration of emergency drugs.
- B. When taught via Foothill Global Access, on-going access to computer with email software and hardware; email address.

## Method(s) of Evaluation

- A. Assignment(s): Reflection and dental team member assignment papers
- B. Group Project: Dental emergency video
- C. Midterm: Multiple choice and short answer
- D. Final: Multiple choice and short answer

## Method(s) of Instruction

- A. Didactic lecture
- B. Role playing
- C. Small group assignments and discussions

## Representative Text(s) and Other Materials

Malamed. Medical Emergencies in the Dental Office. 7th ed. Mosby, 2015. ISBN-13: 978-0-323-17122-9 (Textbook is nationally recognized and standard of care)

Miyasaki, C. Dental Office Emergencies Lecture Manual.

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

- A. Reading chapters in textbook
- B. Reflection paper
- C. Video dialogue and video

## Discipline(s)

Dental Technology