

# D A 57: OFFICE EMERGENCY PROCEDURES

## Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2023
Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	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:

1. Identify the common medical emergencies that occur in the dental office
2. Describe the underlying biological processes responsible for the emergency
3. Describe the signs and symptoms for common medical emergencies
4. List procedures to manage common medical emergencies
5. Indicate the methods to prevent common medical emergencies in the dental office
6. 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
7. Identify patients who are at higher risk for medical emergencies through physical evaluations, such as vital signs and ASA assessment
8. Practice simulated emergency situations and describe the procedures which would be appropriate in the management of these situations
9. Describe the legal and ethical responsibilities of the dental team in the management of emergency situations

## Course Content

1. Identify the common medical emergencies that occur in the dental office

- a. Syncope
  - b. Postural hypotension
  - c. Angina
  - d. Acute myocardial infarct
  - e. Cerebrovascular accident
  - f. Choking
  - g. Hyperventilation
  - h. Asthma
  - i. Drug related emergencies
  - j. Diabetes mellitus
2. Describe the underlying biological processes responsible for the emergency
    - a. Pathophysiology
    - b. Contribution of stress and anxiety
    - c. Pre-existing conditions
  3. Describe the signs and symptoms for common medical emergencies
    - a. Clinical manifestations
  4. List procedures to manage common medical emergencies
    - a. Conscious patient versus unconscious patient
    - b. Patient positioning
    - c. Airway-breathing-circulation (BLS)
    - d. Definitive care
    - e. Staff assignments
  5. Indicate the methods to prevent common medical emergencies in the dental office
    - a. Medical history assessment
    - b. Treatment modifications
    - c. Office and staff preparation
  6. 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
    - a. Equipment
      - i. Oxygen
      - ii. AED unit
      - iii. Ambu bag
    - b. Drugs
      - i. Nitroglycerin pills or spray
      - ii. Antihistamine
      - iii. Epinephrine
      - iv. Inhaler
      - v. Analgesic
      - vi. Ammonia vaporale
      - vii. Glucose
  7. Identify patients who are at higher risk for medical emergencies through physical evaluations, such as vital signs and ASA assessment
    - a. ASA physical status clarification system
      - i. ASA I
      - ii. ASA II
      - iii. ASA III
      - iv. ASA IV
      - v. ASA V
  8. Practice simulated emergency situations and describe the procedures which would be appropriate in the management of these situations

- a. Syncope
  - b. Postural hypotension
  - c. Angina
  - d. Acute myocardial infarct
  - e. Cerebrovascular accident
  - f. Choking
  - g. Hyperventilation
  - h. Asthma
  - i. Drug related emergencies
  - j. Diabetes mellitus
9. Describe the legal and ethical responsibilities of the dental team in the management of emergency situations
- a. Liability to staff and dentist
  - b. Risk management
  - c. Standard of care
  - d. Respondeat superior
  - e. Ethics
    - i. Patient autonomy
    - ii. Nonmaleficence
    - iii. Veracity
    - iv. Competence
    - v. Integrity

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

1. Reading chapters in textbook
2. Reflection paper
3. Video dialogue and video

## Discipline(s)

Dental Technology

## Lab Content

Not applicable.

## Special Facilities and/or Equipment

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

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

Assignment(s): Reflection and dental team member assignment papers

Group project: Dental emergency video

Midterm: Multiple choice and short answer

Final: Multiple choice and short answer

## Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Didactic lecture

Role playing

Small group assignments and discussions

## Representative Text(s) and Other Materials

Malamed. Medical Emergencies in the Dental Office, 8th ed. (ISBN-10: 0323776159). 2022.

Miyasaki, C.. Dental Office Emergencies Lecture Manual. .