

Course Information

Course Number: DDDS 731; DH 4110
Course Title: Dental Office Medical Emergencies
Section: 300
Semester: Summer semester 2024
Time: Monday 01:00 – 03:00
Location: Room 605
Credit Hours: 1

Instructor Details

Instructor and Course director: Ehab Shehata, DDS, MD, MS, PHD
Office: 3000 Gaston Ave, Clinic Building
Phone: 214-828-8104
E-Mail: shehata@tamu.edu
Office Hours: Email for appointment

Co-Instructor: Marianela Gonzalez, DDS, MS
Office: 3000 Gaston Ave, Clinic Building
Phone: 214-828-8959
E-Mail: gonzalezm@tamu.edu
Office Hours: Email for appointment

Welcome Note

Dear students,

I would like to extend a warm welcome to all of you to the Dental Office Medical Emergencies course. I am Dr. Ehab Shehata, and I will be your Course director and principal instructor for this course.

As dental professionals, it is essential for us to be prepared and equipped to handle medical emergencies that may occur during dental procedures. This course will provide you with the necessary knowledge and skills to recognize, prevent, and manage various medical emergencies that may arise in the dental office.

Throughout the course, we will cover topics such as basic life support, emergency drug protocols, and management of common medical emergencies such as syncope, anaphylaxis, and cardiac arrest. We will also discuss strategies for preventing medical emergencies in the dental office and creating a safe and effective environment for our patients.

I am confident that this course will provide you with valuable insights and skills that you can apply in your practice to provide the highest level of care to your patients. I am looking forward to working with all of you and assisting you in achieving your goals in this field.

Once again, welcome to the Dental Office Medical Emergencies course!

Course Description

The course aims to enhance your understanding of various emergency situations in the dental office setting. You will learn how to effectively prepare yourself and your staff to handle emergencies, recognize and prevent them at an early stage, and manage them in the event of an occurrence. Additionally, you will be introduced to various emergency drugs and updated rescue devices commonly used in such critical situations.

This course will be delivered through a series of interactive lectures, quizzes, and assignments. Students' activities / assignments can include case scenarios, student presentations, group discussions, case studies, interactive quizzes, and fun role-playing activities on stage. By the end of the course, you will be equipped with the necessary knowledge and skills to effectively manage emergency situations in a dental office setting.

Course Prerequisites

DDDS 600-level courses

Special Course Designation

DDS Professional Degree

Course Learning Outcomes

Course Objectives:

At the completion of the course, you should be able to:

1. **Discuss** how to prevent common medical emergencies and minimize their occurrence.
2. **Recognize** and *evaluate* the signs and symptoms of the most common emergencies and *understand* how they happen in the body.
3. **Know** what to do first to help save a patient's life before advanced medical help arrives.
4. **Apply your knowledge** to put together an emergency drug kit and create an office emergency plan.
5. **Learn** how your office emergency plan connects with the resources of the community EMS system.
6. **Understand** the importance and *apply* the new technology, like AEDs and PBGMs, in your office emergency equipment.

Related Competencies:

Dental Students

- 1.2 Provide humanoid and compassionate patient care for a diverse patient population.
 - 2.1 Use oral, written and electronic information resources in contemporary practice as an aid for self-assessment and lifelong learning.
 - 2.2 Assess and integrate into practice new techniques, materials, and other findings applicable to dental practice.
 - 4.1 Obtain a diagnostic database including the patient's chief complaint, the dental, medical and psychosocial histories.
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- 5.2 Recognize the presence and oral manifestations of systemic disease and how the disease and its treatment affect the delivery of dental care.
- 6.2 Communicate with other health care professionals to obtain additional information for evaluation and treatment.
- 7.1 Prevent, recognize, and manage dental and medical emergencies encountered in the practice of general dentistry.
- 7.12 Assess treatment outcomes and modify subsequent treatment as may be required.
- 8.1 Maintain patient records.

Dental Hygiene Student:

- 1.2 Comply with state and federal laws governing the practice of dentistry and dental hygiene.
- 2.1 Apply critical thinking skills and evidence-based decision making to the practice of dental hygiene.
- 3.3 Contribute to the knowledge base of dental hygiene.
- 6.1 Determine medical conditions that require special precautions or consideration prior to or during dental hygiene treatment.
- 6.2 Perform an extra oral and intraoral examination of the patient including assessment of vital signs and radiographic examination and distinguish normal from abnormal findings.
- 6.3 Manage the patient at risk for a medical emergency and be prepared to handle the emergency should it occur during and appointment.
- 6.4 Recognize predisposing, etiologic risk factors, and life-style choices that may require intervention to prevent disease.
- 6.6 Determine the need for referral to the appropriate health professional.

Textbook and/or Resource Materials

Medical Emergencies in the Dental Office, Stanley F. Malamed - 7th Edition. ISBN-13: 978-0323171229
Learning materials and recordings posted to Canvas.

Grading Policy

There will be a mid-semester and a final examination covering all course material, including assigned reading materials. If you miss the midterm or final, the make-up exam will be an Essay examination. The Final Course grade will be a weighted compilation of the quizzes, assignments, midterm and final examinations. I highly encourage you to attend the ungraded Medical Emergency Scenarios Lab. The date for this lab will be announced either during or after the completion of this course. The weighted value of all graded components is:

- Ungraded pre-assessment quiz at the beginning of the first lecture
- Second quiz during the second lecture (covers the material discussed during the first lecture (10 points = 10%)
- Third quiz during the third lecture (covers the material discussed during the second lecture (10 points = 10%)
- Midterm Exam: covers the material discussed during the previous three lectures (30 points =30%)
- Students' activities / Assignments (10 points = 10%)
- Final exam: covers all the course material (40 points = 40%)

For DDDS 731 the grading scale will be:

A = 89.5-100 %
B = 79.5-89.4 %
C = 74.5-79.4 %
F = <74.5 %

For DDHS 4110; the grading scale will be:

A: 90.0 – 100 %
B: 80.0 – 89.99 %
C: 75.0 – 79.99 %
D: 70.0 – 74.99 %
F: <70.0%

Passing Grade: 75%
Medical emergency lab 0%* (highly recommended to attend when date announced)

Attendance Policy:

We truly believe that attending lectures regularly is a sign of responsible professionalism. So, feel free to take any available seat, unless the Course Director instructs otherwise. Your presence and attention in class are highly valued and appreciated.

Late Work Policy

As the contents of this course are crucial for ensuring patient safety and improving clinical practice, it's important that every student comprehends the material covered. Therefore, in case any student needs further guidance or clarification on any topic, the course director may offer Remediation at their discretion. Remediation sessions are designed to provide additional support and help students achieve the desired level of understanding. The course director will ensure that Remediation is carried out in a fair and supportive manner. So, don't hesitate to reach out to me if you require extra assistance in mastering the course material.

Optional Course Information Items

Technology Support

Students are responsible for maintaining their devices and ensuring that they are in proper working order throughout the semester. This includes maintaining access to the college wireless network, access to all accounts (both TAMU and TAMU Health) and keeping passwords up to date. Students are expected to keep their devices up to date in regard to patches and OS updates.

Division of IT

If the student experiences issues with an electronic device, wifi access, axiUm, Zoom, or user accounts, their first point of contact should be the Division of IT Central Help Desk or the local Division of IT at SOD. The Central Helpdesk provides 24-hour support.

Division of IT Central Help Desk Website: https://it.tamu.edu/help/ Phone: 1-979-845-8300 Email: helpdesk@tamu.edu	SOD Local Division of IT Office Room: 519 Phone: 214-828-8248
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COD Instructional Design Team

For electronic exam support or problems concerning other academic technology, such as the LMS (Canvas), ExamSoft, or Exemplify, students should contact the Instructional Design team.

Room: 516 through Academic Affairs

Carmina Castro	ccastro@tamu.edu	(214) 828-8316
Jeff Lowry	lowryj1@tamu.edu	(214) 828-8243
Canvas support 24-hours		(877) 354-4821

Course Schedule

Any F2F sessions and exams will be in room 134.

Date	Session Title/Topic	Grades %	Instructor(s) Name
06/10/2024	Office medical emergencies Lecture – 1 Pre-assessment quiz #1, General overview and principles, Emergency drugs, routes of administration, emergency equipment	<u>Ungraded</u> pre-assessment quiz #1 (ExamSoft)	Dr. Shehata
06/17/2024	Office medical emergencies Lecture – 2 Quiz #2, Common emergencies; Syncope, Angina, MI, DM / hypoglycemia, others	Quiz #2 10% (ExamSoft)	Dr. Shehata
06/24/2024	Office medical emergencies Lecture – 3 Quiz #3, Cardiovascular & CNS-Based Emergencies, including CHF, HBP, Anaphylaxis, Epilepsy & Ventilation-Based Emergencies, include COPD, Asthma, Hyperventilation, Obstructed A/W, Airway Management	Quiz #3 10% (ExamSoft)	Dr. Shehata
07/01/2024	EXAM 1 – Mid-term; Examsoft	30% (ExamSoft)	Dr. Shehata
07/08/2024	Review/Overview; students’ activities.	10%	Dr. Shehata
07/15/2024	FINAL EXAM – Examsoft	40% (ExamSoft)	Dr. Shehata

University Policies

Attendance Policy

The university views class attendance and participation as an individual student responsibility. Students are expected to attend class and to complete all assignments.

Please refer to [Student Rule 7](#) in its entirety for information about excused absences, including definitions, and related documentation and timelines.

Makeup Work Policy

Students will be excused from attending class on the day of a graded activity or when attendance contributes to a student's grade, for the reasons stated in Student Rule 7, or other reason deemed appropriate by the instructor.

Please refer to [Student Rule 7](#) in its entirety for information about makeup work, including definitions, and related documentation and timelines.

Absences related to Title IX of the Education Amendments of 1972 may necessitate a period of more than 30 days for make-up work, and the timeframe for make-up work should be agreed upon by the student and instructor" ([Student Rule 7, Section 7.4.1](#)).

"The instructor is under no obligation to provide an opportunity for the student to make up work missed because of an unexcused absence" ([Student Rule 7, Section 7.4.2](#)).

Students who request an excused absence are expected to uphold the Aggie Honor Code and Student Conduct Code. (See [Student Rule 24](#).)

Academic Integrity Statement and Policy

"An Aggie does not lie, cheat or steal, or tolerate those who do."

"Texas A&M University students are responsible for authenticating all work submitted to an instructor. If asked, students must be able to produce proof that the item submitted is indeed the work of that student. Students must keep appropriate records at all times. The inability to authenticate one's work, should the instructor request it, may be sufficient grounds to initiate an academic misconduct case" ([Section 20.1.2.3, Student Rule 20](#)).

Americans with Disabilities Act (ADA) Policy

Texas A&M School of Dentistry

Texas A&M University is committed to providing equitable access to learning opportunities for all students. If you experience barriers to your education due to a disability or think you may have a disability, please contact Rosa Vargas rosa.vargas@exchange.tamu.edu in the Office of Academic Affairs in the Administration Building, Room 514, or call (214)-828-8978. Disabilities may include, but are not limited to attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability-related needs with Disability Resources and their instructors as soon as possible.

Title IX and Statement on Limits to Confidentiality

Texas A&M University is committed to fostering a learning environment that is safe and productive for all. University policies and federal and state laws prohibit gender-based discrimination and sexual harassment, including sexual assault, sexual exploitation, domestic violence, dating violence, and stalking.

With the exception of some medical and mental health providers, all university employees (including full and part-time faculty, staff, paid graduate assistants, student workers, etc.) are Mandatory Reporters and must report to the Title IX Office if the employee experiences, observes, or becomes aware of an incident that meets the following conditions (see [University Rule 08.01.01.M1](#)):

- The incident is reasonably believed to be discrimination or harassment.
- The incident is alleged to have been committed by or against a person who, at the time of the incident, was (1) a student enrolled at the University or (2) an employee of the University.

Mandatory Reporters must file a report regardless of how the information comes to their attention – including but not limited to face-to-face conversations, a written class assignment or paper, class discussion, email, text, or social media post. Although Mandatory Reporters must file a report, in most instances, a person who is subjected to the alleged conduct will be able to control how the report is handled, including whether or not to pursue a formal investigation. The University's goal is to make sure you are aware of the range of options available to you and to ensure access to the resources you need.

Texas A&M School of Dentistry

Students can learn more about filing a report, accessing supportive resources, and navigating the Title IX investigation and resolution process on the University's [Title IX webpage](#). School of Dentistry students can contact Graduate Studies at 214-828-8182, Student Affairs at 214-828-8210, Security at 214-828-8335, their Program Director, or their Department Head to report an incident.

Statement on Mental Health and Wellness

Texas A&M University recognizes that mental health and wellness are critical factors that influence a student's academic success and overall wellbeing. Students are encouraged to engage in healthy self-care by utilizing available resources and services on your campus.

Texas A&M School of Dentistry

Students who need someone to talk to can call the TAMU Helpline (979-845-2700) from 4:00 p.m. to 8:00 a.m. weekdays and 24 hours on weekends. 24-hour emergency help is also available through the National Suicide Prevention Hotline (800-273-8255) or at suicidepreventionlifeline.org. You can also contact Graduate Studies at 214-828-8182 or Student Affairs at 214-828-8210 for a referral to a local counselor. These counseling sessions are private and confidential, as are any referral requests.

Campus-Specific Policies

Statement on the Family Educational Rights and Privacy Act (FERPA)

FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. Currently enrolled students wishing to withhold any or all directory information items may do so by going to howdy.tamu.edu and clicking on the "Directory Hold Information" link in the Student Records channel on the MyRecord tab. The complete [FERPA Notice to Students](#) and the student records policy is available on the Office of the Registrar webpage.

Items that can never be identified as public information are a student's social security number, citizenship, and gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

Directory items include name, UIN, local address, permanent address, email address, local telephone number, permanent telephone number, dates of attendance, program of study (college, major, campus), classification, previous institutions attended, degrees honors and awards received, participation in officially recognized activities and sports, medical residence location and medical residence specialization.