

Republic of Yemen
Ministry of Higher Education & Scientific Research
Emirates International University



Faculty of Dentistry
Department of Oral Surgery
Doctor of Dental Surgery

Course Specification of Medical Emergencies

Course No. ()




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Review committee:



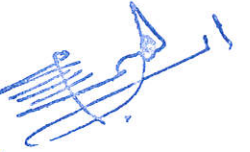
Head of the Department



Quality Assurance head



Dean of Faculty



I. Course Identification and General Information:

1	Course Title:	Medical Emergencies			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:	5 th Level / 2nd Semester			
5	Pre –Requisite (if any):	Medically Compromised Patients			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Medicine			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Dentistry			
12	Prepared by:	Dr. Sam Da'er			

II. Course Description:

Purpose of this course is Knowledge urgent conditions that do not endanger the patient's life and urgent conditions that endanger the patient's life. Emergency situations, emergency interventions, accidental conditions and aspect of mental preparation and premedication. The student should be able to recognize and provide the first aid in most urgent situations in dentistry, and to participate in terms of adequate assistant in the delivery of first aid performed by a doctor. The students will adopt the skills and knowledge of principles of cardiopulmonary cerebral reanimation (CPR) in adults, ABC order in reanimation (respiratory pathway, ventilation, chest compression), medication therapy, pathways of medication, practical application of CPR algorithms, monitoring patient.



III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program		
A. Knowledge and Understanding:		I, A or E		
a1	Identify and know the normal structures & functions of human body			A2
a2	Describe the steps undertaken to properly manage medically compromised patients			A4
a3	Attributing management of road casualties			A5
a4	Outlining the treatment of poisoning, wounds and head injuries			A2
B. Intellectual Skills:				
b1	Checking of comatose person.			B2
b2	Integrating airway patency with normal circulation			B3
C. Professional and Practical Skills:				
c1	Evaluate and manage the medical and dental emergency which can effect dental treatment.			C1
c2	Correlate the normal and abnormal functions of human body and its effect on the body			C6
D. Transferable Skills:				
d1	Appreciate the importance of life-long self-learning and show strong commitment to it.			D1
d2	Respect ethics related to laboratory work.			D3

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding)



to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
a1	Identify and know the normal structures & functions of human body Outlining the treatment of poisoning, wounds and head injuries	<ul style="list-style-type: none"> ▪ Lectures ▪ Debate 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm exam ▪ Final exam. ▪ Oral exam
a2	Describe the steps undertaken to properly manage medically compromised patients	<ul style="list-style-type: none"> ▪ Lectures ▪ Debate 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm exam ▪ Final exam. ▪ Oral exam
a3	Attributing management of road casualties.	<ul style="list-style-type: none"> ▪ Lectures ▪ Debate 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm exam ▪ Final exam. ▪ Oral exam
a4	Outlining the treatment of poisoning, wounds and head injuries	<ul style="list-style-type: none"> ▪ Lectures ▪ Debate 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm exam ▪ Final exam. ▪ Oral exam
(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
b1	Checking of comatose person.	<ul style="list-style-type: none"> ▪ Lecture ▪ Discussion 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm exam ▪ Final exam. ▪ Oral exam ▪ Homework
b2	Integrating airway patency with normal circulation	<ul style="list-style-type: none"> ▪ Lecture ▪ Discussion 	<ul style="list-style-type: none"> ▪ Quizzes ▪ Midterm exam ▪ Final exam. ▪ Oral exam ▪ Homework
(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:			
Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
c1	Evaluate and manage the medical and dental emergency which can effect dental treatment.	<ul style="list-style-type: none"> ▪ Demonstration ▪ Debate 	<ul style="list-style-type: none"> ▪ Homework



c2	Correlate the normal and abnormal functions of human body and its effect on the body	<ul style="list-style-type: none"> ▪ Demonstration ▪ Debate 	<ul style="list-style-type: none"> ▪ Homework
(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:			
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Appreciate the importance of life-long self-learning and show strong commitment to it.	<ul style="list-style-type: none"> ▪ Discussion ▪ Brainstorming ▪ Presentation 	<ul style="list-style-type: none"> ▪ Homework
d2	Respect ethics related to laboratory work.	<ul style="list-style-type: none"> ▪ Discussion ▪ Brainstorming ▪ Presentation 	<ul style="list-style-type: none"> ▪ Homework

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction of dental emergencies	The role of dentists in solving urgent medical conditions. Prevention of E.R.: a aspect of mental preparation and premedication. An overview of the E.R. in the dental office. Judicial-medical responsibility of dentists in solving the urgent medical conditions.	1 st	2	a1
2	Urgent cardiovascular conditions	Sinus bradycardia, sinus tachycardia, angina pectoris, hypertensive crisis, acute myocardial infarction. Initial treatment of acute myocardial infarction. Cardiopulmonary cerebral reanimation in adults. Cardiopulmonary cerebral reanimation in children.	2 nd -3 rd	4	a1, a2
3	Urgent respiratory conditions	Laryngospasm, laryngeal oedema, bronchospasm, respiratory obstruction. Treatment of acute	4 th	2	a1, a2, b2



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		bronchial asthma attack. Cardiopulmonary cerebral reanimation in adults. Cardiopulmonary cerebral reanimation in children. Airway and artificial ventilation: establishment and maintenance of the respiratory tract, use of oropharyngeal and nasopharyngeal tube, endotracheal intubation, application of laryngeal mask, reanimation balloon, portable respirator.			
4	Dental emergencies	Diabetes mellitus, hypoglycemic shock, hyperglycemic crisis. Acute adrenaline crisis. Hyperthyroidism (thyrotoxicosis).	5 th	2	a2, b1
5	Episcopal unconscious conditions	Syncope, collapse, epileptic attack, hysterical attack, acute stroke, coma, rarer forms of episodic consciousness disorder. Treatment of conditions of consciousness disorder.	5 th	2	a4, b1
6	Allergic reactions	Systemic and local. Anaphylactic reaction and anaphylactic shock.	7 th	2	a2, a4, b2
7	Midterm Exam		8 th	2	a1-a4, b1-b2
8	Painful conditions:	Diagnosis of orofacial pain, origin of pain in the orofacial area, characteristics of orofacial pain.	9 th	2	a2
9	Bleeding	Causes, types. Hemostasis: Mechanical methods, chemical methods, biological methods, physical methods and consequence of surgical interventions in the oral cavity. Bleeding as a result of injuries of soft and bone facial tissue and jaw.	10 th -11 th	4	a2, a4, b2
10	Odontogenic	Etiology, clinical picture, diagnosis			a2



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	infections	and differential diagnosis. Acute dentogenic infection. Treatment of dentogenic infection. Surgical treatment of dentogenic infections: principles of intraoral and oral incisions, drainage. Therapeutic use of antibiotics. Pathways spread the dentogenic infection. Complications of dentogenic infection.			
11	Injuries to the oral cavity and jaws	Injuries to the oral cavity, jaw and face: first aid in injury to the oral cavity, dental injury and jaw.	13 th	2	a3, a4
12	Dental emergencies in the course of dental therapy part 1	Urgent conditions during the application of local anaesthesia and in the extraction of teeth. Complications during surgical procedures, complications in the execution of incisions, complications when working with surgical instruments, complications in the course of surgical interventions, complications in the course of stitching, post-operative complications.	14 th	2	a4, b2
13	Dental emergencies in the course of dental therapy part 2	Dental emergencies in the course of dental therapy: aspiration, swallowing of foreign objects, endodontic emergency conditions, periodontology, prosthetics. Urgent conditions that do not endanger the patient's life.	15 th	2	a4, b1
14	Final Exam		16 th	2	a1-a4, b1-b2
Number of Weeks /and Units Per Semester			16	32	



V. Teaching Strategies of the Course:

- Lectures
- Debate
- Discussion
- Brainstorming
- Demonstration
- Presentation

VI. Assessment Methods of the Course:

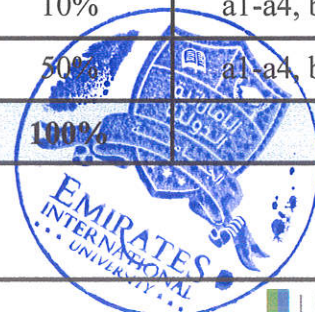
- Quizzes
- Midterm exam
- Final exam.
- Oral exam
- Homework

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	presentation	2 nd -15 th	10	b1-b2,c1-c2, d1-d2
Total			10	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	2 nd -15 th	10	10%	b1-b2,c1-c2, d1-d2
2	Quizzes 1 & 2	4 th , 12 th	10	10%	a1-a4, b1-b2
3	Midterm Exam	8 th	20	20%	a1-a4, b1-b2
4	Oral Exam	16 th	10	10%	a1-a4, b1-b2
5	Final Exam	16 th	50	50%	a1-a4, b1-b2
Total			100	100%	



IX. Learning Resources:

1- Required Textbook(s) (maximum two):

- 1- F.M. Andreasen, J.O. Andreasen, L.K. Bakland, M.T. Flores, 2008 Traumatic teeth injury, 4th edition, Mosby.

2- Essential References:

- 1- STANLEY MALAMED, DANIEL L, 2015, MEDICAL EMERGENCIES IN THE DENTAL OFFICE, 7th edition, Mosby, an imprint of Elsevier Inc.

3- Electronic Materials and Web Sites etc.:

1. www.bjoms.com

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	<p>Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.</p>
2	<p>Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p>Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.</p>
4	<p>Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p>Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
6	<p>Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.</p>
7	<p>Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.</p>



Faculty of Dentistry

Department of Oral Surgery

Doctor of Dental Surgery

Course Plan (Syllabus) of Medical Emergencies

Course No. ()

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:		Office Hours					
Location & Telephone No.:							
E-mail:		SAT	SUN	MON	TUE	WED	THU



II. Course Identification and General Information:

1	Course Title:	Medical Emergencies			
2	Course Code & Number:				
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
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5	Pre –Requisite (if any):	Medically Compromised Patients			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Medicine			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
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12	Prepared by:	Dr. Sam Da'er			

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IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

	A. Knowledge and Understanding:
a1	Identify and know the normal structures & functions of human body
a2	Describe the steps undertaken to properly manage medically compromised patients
a3	Attributing management of road casualties
a4	Outlining the treatment of poisoning, wounds and head injuries
	B. Intellectual Skills:
b1	Checking of comatose person.
b2	Integrating airway patency with normal circulation
	C. Professional and Practical Skills:
c1	Evaluate and manage the medical and dental emergency which can effect dental treatment.
c2	Correlate the normal and abnormal functions of human body and its effect on the body
	D. Transferable Skills:
d1	Appreciate the importance of life-long self-learning and show strong commitment to it.
d2	Respect ethics related to laboratory work.

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction of dental emergencies	The role of dentists in solving urgent medical conditions. Prevention of E.R.: a aspect of mental preparation and premedication. An overview of the E.R. in the dental office. Judicial-medical responsibility of dentists in solving the urgent medical conditions.	1 st	2
2	Urgent cardiovascular conditions	Sinus bradycardia, sinus tachycardia, angina pectoris, hypertensive crisis, acute myocardial infarction. Initial treatment of acute myocardial infarction. Cardiopulmonary cerebral reanimation in adults. Cardiopulmonary cerebral reanimation in	2 nd , 3 rd	4

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		children.		
3	Urgent respiratory conditions	Laryngospasm, laryngeal oedema, bronchospasm, respiratory obstruction. Treatment of acute bronchial asthma attack. Cardiopulmonary cerebral reanimation in adults. Cardiopulmonary cerebral reanimation in children. Airway and artificial ventilation: establishment and maintenance of the respiratory tract, use of oropharyngeal and nasopharyngeal tube, endotracheal intubation, application of laryngeal mask, reanimation balloon, portable respirator.	4 th	2
4	Dental emergencies	Diabetes mellitus, hypoglycemic shock, hyperglycemic crisis. Acute adrenaline crisis. Hyperthyroidism (thyrotoxicosis).	5 th	2
5	Episcopal unconscious conditions	Syncope, collapse, epileptic attack, hysterical attack, acute stroke, coma, rarer forms of episodic consciousness disorder. Treatment of conditions of consciousness disorder.	6 th	2
6	Allergic reactions	Systemic and local. Anaphylactic reaction and anaphylactic shock.	7 th	2
7	Midterm Exam		8 th	2
8	Painful conditions:	Diagnosis of orofacial pain, origin of pain in the orofacial area, characteristics of orofacial pain.	9 th	2
9	Bleeding	Causes, types. Hemostasis: Mechanical methods, chemical methods, biological methods, physical methods and consequence of surgical interventions in the oral cavity. Bleeding as a result of injuries of soft and bone facial tissue and jaw.	10 th - 11 th	4
10	Odontogenic infections	Etiology, clinical picture, diagnosis and differential diagnosis. Acute dentogenic infection. Treatment of dentogenic infection. Surgical treatment of dentogenic infections: principles of intraoral and oral incisions, drainage. Therapeutic use of antibiotics. Pathways spread the dentogenic infection. Complications of dentogenic infection.	12 th	2

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
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13	Dental emergencies in the course of dental therapy part 2	Dental emergencies in the course of dental therapy: aspiration, swallowing of foreign objects, endodontic emergency conditions, periodontology, prosthetics. Urgent conditions that do not endanger the patient's life.	15 th	2
14	Final Exam		16 th	2
Number of Weeks /and Units Per Semester			16	32

VI. Teaching Strategies of the Course:

- Lectures
- Debate
- Discussion
- Brainstorming
- Demonstration
- Presentation



VII. Assessment Methods of the Course:

- Quizzes
- Midterm exam
- Final exam.
- Oral exam
- Homework

VIII. Assignments:

No.	Assignments	Week Due	Mark
1	presentation	2nd-15th	10
Total			10

IX. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	2 nd -15 th	10	10%
2	Quizzes 1 & 2	4 th , 12 th	10	10%
3	Midterm Exam	8 th	20	20%
4	Oral Exam	16 th	10	10%
5	Final Exam	16 th	50	50%
Total			100	100%

X. Learning Resources:

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