



**UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE
„CAROL DAVILA” DIN BUCUREȘTI
Facultatea de Stomatologie**



DISCIPLINE GRID

1. Data about the program:

1.1.	“CAROL DAVILA” UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	THE FACULTY OF DENTISTRY / DEPARTMENT II
1.3.	Discipline: INTERNAL MEDICINE
1.4.	Field of study: Healthcare – Regulated regionally within the European Union
1.5.	Type of study: UNDERGRADUATE STUDIES
1.6.	Program of study: DENTAL MEDICNE IN ENGLISH

2. Data about the Discipline

2.1.	Name of the required subject within the Discipline: MEDICAL FIRST AID. MEDICAL AND SURGICAL EMERGENCIES IN DENTISTRY						
2.2.	Location of the Discipline: THE COUNTY EMERGENCY CLINICAL HOSPITAL ILFOV						
2.3.	The tenured professors of the lectures: Prof. Laura Carina TRIBUS, M.D., Ph. D.						
2.4.	The tenured professors of the practical activities: Prof. Laura Carina TRIBUS, M.D., Ph. D. Lecturer Gabriela Anca ANGELESCU, M.D., Ph. D. Assist. Lecturer Corina COSTACHE, M.D., Ph. D. Assist. Lecturer Andreea Maria CALAPOD, M.D., Ph. D. Assist. Lecturer Francisc Iohann BACH, M.D., Ph. D.						
2.5. Year of study	III	2.6. Semester	VI	2.7. Assessment type	Viva-voce exam	2.8. Discipline type	CD/SD

3. Overall estimated time (hours/ semester of teaching activity)

No. of hours/ week	2	Out of which	Lecture: 1	Practical lectures: 1
Total no. of hours from the curriculum	28	Out of which	Lectures: 14	Practical lectures: 14

Time distribution	hours
Study from the textbook, lecture support, bibliography and notes	9
Additional research activity in the library, on online specialty platforms and on the field	5
Preparation for the seminars/ laboratories, homework, research papers, portfolio and essays	3
Tutoring	1
Examinations	3
Other activities	1
Total hours of individual study	22
Total hours per semester	50
Number of credits	2

4. Pre-conditions

4.1. in terms of curriculum	Knowledge of - human anatomy - human physiology and pathophysiology - general and clinical pharmacology
4.2. in terms of competencies	Knowledge of the patient's management

5. Conditions

5.1. for the lecture activity	Lecture hall with a capacity of minimum 70 seats, computer, overhead projector
5.2. for the practical lecture activity	Hospital wards, clinical laboratory, radiology and ultrasound offices

6. The acquisition of specific skills

Professional skills	<p>I. <u>Knowledge (cognitive dimension)</u></p> <ul style="list-style-type: none">- the ability to recognize the main symptoms, signs and syndromes in Emergency Medicine- the ability to make an accurate diagnosis specific to medical emergencies- the ability to make a quick differential diagnosis of the medical emergencies that can occur in the dental office- the ability to recognize the highly severe situations and refer them to colleagues holding the required competences to solve them. <p>II. <u>Abilities (functional dimension)</u></p> <ul style="list-style-type: none">- the ability to perform a full and accurate clinical examination in the field of Emergency Medicine- the ability to perform the main clinical manoeuvres typical of emergency medicine.
Transverse abilities	<p>III. <u>Role abilities</u></p> <ul style="list-style-type: none">- The identification of the sought-after objectives, of the available resources, of the conditions regarding their achievement, of the work stages, of the working times, of the corresponding terms for completion and related risks. <p>IV. <u>Professional and personal development related abilities</u></p> <ul style="list-style-type: none">- The identification of the roles and responsibilities in a pluri-disciplinary team and the implementation of efficient communication and working techniques within the team and in the relation with the patient- The efficient use of information sources, of assisted communication and professional training resources.

7. The objectives of the Discipline (resulting from the grid of acquired specific skills)

7.1. General objectives	<p>The aim of the course and the practical internship of MEDICAL FIRST AID. MEDICAL AND SURGICAL EMERGENCIES IN DENTISTRY is to briefly and logically present the main diseases related to Emergency Medicine according to the latest data in the specialty literature; to acquire the necessary skills for the rapid recognition, in the dental medicine practice, of the diagnoses that call for the rapid medical intervention, in the absence of which the life of the patient could be jeopardized; to build-up a coherent and adequate medical mindset, using proper language.</p> <ul style="list-style-type: none"> - They will acquire general knowledge on the manifestation of the main medical-surgical emergencies; - They will establish the most efficient means of communication with the patient and they will further develop the required skills for the examination of the patient, in order to make an accurate diagnosis; - They will be able to choose the best treatment plan for the various clinical forms of medical emergencies; - They will improve their practical skills to be able to cover the clinical stages necessary for the diagnosis of medical-surgical emergencies.
7.2. Specific objectives	<p>At the end of the course, the students will be able to:</p> <ul style="list-style-type: none"> - make an accurate diagnosis in case of medical emergencies. - establish the best treatments for the patients with medical emergencies.

8. Contents

8.1. Lecture	No. hours/ topic	Teaching methods	Obs.
1. MEDICAL EMERGENCIES – introductory lecture. The organization of the dental office. The emergency kit.	2	The interactive presentation of the material according to the syllabus, using multimedia means, power point presentations, movies related to the teaching activity.	
2. RESPIRATORY DYSPNEA. Asthma episode. Hyperventilation. Aspiration of foreign bodies.	2		
3. CARDIAC DYSPNEA. Cardiac failure. Acute pulmonary edema. Hypertensive emergencies.	2		
4. THORACIC PAIN	2		
5. CARDIAC ARREST. CARDIO-PULMONARY RESUSCITATION (CPR)	2		
6. WORSENING/ LOSS OF CONSCIOUSNESS. CONVULSIONS. Syncope. Orthostatic hypotension. Hypoglycemic/ hyperglycemic coma. Cerebrovascular accident (CVA). Disorders of the thyroid gland.	2		
7. ALLERGIES. PARTICULARITIES OF MEDICAL CONDUCT TOWARDS ELDERLY PATIENTS, CANCER PATIENTS OR TRANSPLANT PATIENTS.	2		

8.2 Practical lectures (LPs)	No. hours/ topic	Teaching methods	Obs.
1. Presentation of the emergency kit in the dental office. Measurement of the respiratory rate, blood pressure, ventricular rate and peripheral pulse; determination of oxygen saturation. Peripheral venous approach.	2	Depending on the cases of hospitalized patients and patients coming to the emergency room, the practical internship approaches the exact data regarding the diagnosis, evolution and treatment principles for the aforementioned disorders. Moreover, in order to cover all the practical aspects of the pathology presented during the internship, one practical class/clinical rotation will take place at “ Centrul digital de training în tratamentul minim-invaziv și intervențional ”, in Thomas Masaryk str., no. 19, founded through the project with European funding e-PNRR: 2009669020 , within the Cardiology Laboratory , by using the medical simulator - Hal (ICU high-fidelity simulator) of UMF “Carol Davila” Bucharest as well as within the Emergency Room of the County Clinical Emergency Hospital Ilfov.	
2. The clinical management of the patient with dyspnea in the dental office (1). Anamnesis. The objective examination. The ECG. Case presentation.	2		
3. The therapeutic management of the patient with dyspnea in the dental office (2). Case presentation.	2		
4. The approach of the patient with thoracic pain: anamnesis, clinical examination, ECG. Case presentation.	2		
5. Cardiac arrest. Cardiopulmonary resuscitation (CPR). The practical stages of Basic Life Support (BLS). Case presentation.	2		
6. The practical assessment of the patient with loss of consciousness. Glasgow score. The recognition of the main causes of loss of consciousness. Case presentation.	2		
7. The assessment of the patient that develops and allergic reaction in the dental office: causes, clinical examination, treatment. Case presentation.	2		

8.3. Bibliography for the lecture and the practical courses
<ol style="list-style-type: none"> The current lecture Tratat de Medicină Internă. Vol. 1 (<i>Treaty of Internal Medicine. Vol. 1</i>), under the editorship of Bruckner, Editura Medicală, 2024 Medical Emerencies in the Dental Office. Stanley F. Malamed. Elsevier. 2022 Oxford handbook of Emergency Medicine. Jonathan P. Wyatt. Robert G. Taylor. Kerstin de Wit. Emily J. Hotton. Fifth Edition. Oxford University Press. 2020 Medicină Internă. Patologie respiratorie, cardiovasculară și hematologică (<i>Internal Medicine. Respiratory, cardiovascular and hematologic pathology</i>). Laurențiu Solodoc. Editura Sedcom Libris. 2023 Harrison. Principiile Mediciniei Interne (<i>Harrison's Principles of Internal Medicine</i>). 19th edition. Volumes 1 and 2. Dan L. Longo, Anthony Fauci. Editura ALL, 2021

7. Manualul OXFORD de Medicină Clinică (*OXFORD Textbook of Clinical Medicine*). Ian B. Wilkinson. Tim Raine. Anna Goodhart. Catriona Hall. Harriet O Neill. Editura Prior. 2019
8. General Medicine and Surgery for Dental Practitioners, third edition, Mark Greenwood, John G. Meechan, Springer Nature Switzerland AG 2019
9. Washington Manual of Medical Therapeutics. Zacharry Crees, Cassandra Fritz, Alonso Huedebert. Jonas Noe. Arvind Rengarajan. Xiaowen Wang. Editura Wolters Kluwer. 2019
10. Implicații practice ale bolilor cardiovasculare în medicina dentară (*Practical Involvement of cardiovascular disorders in dentistry*) - Florin Mitu, Iulia-Cristina Roca, Mihai Roca, Casa Editorială Demiurg, Iași, 2013
11. Publicații periodice (Journals):
Romanian Journal of Internal Medicine
New England Journal of Medicine

9. Corroborating the contents of the Discipline with the expectations of the epistemic community representatives, professional associations and representative employers in the field corresponding to the program

The recognition and the management of the main medical emergencies that may occur in the dental office represent a priority and they should mandatorily be acquired by each dental student.

10. Assessment

10.1. Assessment			
Activity type	Assessment criteria	Assessment methods	Percentage of the final grade
Lecture	<p>Requirements for grade 5: Written examination: - multiple choice questions involving extended topics aiming at assessing the logical acquisition of the taught information. The topics cover all the main chapters. - solving 50% of the questions</p> <p>Requirements for grade 10: Solving 90% of the questions,</p>	<p>Viva-voce examination Multiple choice questions 30 questions One correct answer</p>	60%
Practical lectures	<p>Requirements for grade 5 The ability to make a correct anamnesis and to accurately classify the signs and the symptoms of the patients according to their medical emergency</p> <p>Requirements for grade 10: The ability to perform some practical maneuvers specific to the body systems – there is a classification of them and the students must be familiar with it.</p>	<p>Practical assessment The knowledge and performance of some specific maneuvers in case of possible emergencies that may occur in the dental office. The assessment will take place using the simulators of the Innovation and e-Health Center of UMF „Carol Davila” Bucharest, as well as in the Emergency Room of the County Clinical Emergency Hospital Ilfov.</p>	40%
Minimum performance standards			
The recognition of the most common signs and symptoms specific to the main clinical syndromes of Emergency Medicine in order to decide upon the most appropriate therapeutic plans for the patients with various medical pathologies.			

Date of completion:
23.08.2024

Head of the Discipline,
Prof. Dr. Laura Carina TRIBUS

**Date of approval by the
Department Board:**
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Department Director
Prof. Emeritus Dr. Alexandru BUCUR