



## **DISCIPLINE SHEET**

### **1. Study programme**

<b>1.1.</b>	<b>"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST</b>				
<b>1.2.</b>	<b>FACULTY OF DENTISTRY</b>				
<b>1.3.</b>	<b>DEPARTMENT II</b>				
<b>1.4.</b>	<b>DISCIPLINE INTERNAL MEDICINE</b>				
<b>1.5.</b>	<b>STUDY DOMAIN: Health, sectoral regulated within the European Union</b>				
<b>1.6.</b>	<b>STUDY LEVEL: I (Bachelor's degree) and II (Master's degree)</b>				
<b>1.7.</b>	<b>STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH</b>				

### **2. Discipline**

<b>2.1.</b>	<b>Discipline name according to the study curriculum: MEDICAL FIRST AID. MEDICAL AND SURGICAL EMERGENCIES IN DENTISTRY</b>				
<b>2.2.</b>	<b>Discipline code: MD03S12EN</b>				
<b>2.3.</b>	<b>Discipline type (FD/SD/CD): SD</b>				
<b>2.4.</b>	<b>Discipline optionality (COD/ED/FAD): COD</b>				
<b>2.5.</b>	<b>Lectures tenure: Prof. Laura Carina TRIBUS, M.D., Ph. D.</b>				
<b>2.6.</b>	<b>Practical classes / seminar tenure: Prof. Laura Carina TRIBUS, M.D., Ph. D.</b>				
<b>2.7. Year of study</b>	<b>III</b>	<b>2.8. Semester</b>	<b>VI</b>	<b>2.9. Evaluation (E/C/V)</b>	<b>C</b>

### **3. Estimated total time (hours/ semester of teaching and training activity /individual study)**

<b>I. University training</b>						
<b>3.1. Number of hours per week</b>	<b>4</b>	<b>from which:</b>	<b>3.2. lecture</b>	<b>2</b>	<b>3.3. practical class/ seminar</b>	<b>2</b>
<b>3.4. Total hours in the study curriculum</b>	<b>28</b>	<b>from which:</b>	<b>3.5. lecture</b>	<b>14</b>	<b>3.6. practical class/ seminar</b>	<b>14</b>
<b>II. Preparation/ individual study</b>						
<b>Time distribution</b>						<b>hours</b>
<b>Study of lecture materials, textbooks, books, study of the minimum recommended bibliography</b>						<b>14</b>
<b>Additional documentation activity in the library, on online platforms</b>						<b>8</b>
<b>Specific preparation activities for projects, practical classes, preparation of assignments, reports</b>						<b>4</b>
<b>Preparation for presentations or evaluations, preparation for the final examination</b>						<b>3</b>
<b>Tutoring activity</b>						<b>2</b>
<b>Other activities</b>						<b>1</b>
<b>3.7. Total hours of individual study</b>						<b>32</b>
<b>3.8. Total hours per semester (3.4.+3.7.)</b>						<b>60</b>
<b>3.9. Number of credits</b>						<b>2</b>

#### 4. Prerequisites (where appropriate)

<b>4.1. curriculum</b>	<p><b>Anatomy:</b> knowledge of the structure of organs and systems (e.g., cardiovascular, respiratory, digestive system).</p> <p><b>Physiology:</b> understanding of the normal functions of the body (e.g., hemodynamics, ventilation, metabolism).</p> <p><b>Biochemistry and Cell Biology:</b> the basis of metabolic processes and cellular regulation.</p> <p><b>Basic notions of Genetics and Immunology.</b></p> <p><b>Pathophysiology:</b> main pathogenic mechanisms involved in the onset of various medical diseases.</p> <p><b>Medical Semiology:</b> anamnesis and objective clinical examination – all these being indispensable for understanding the theoretical and practical basis of Internal Medicine and for being able to immediately recognize a medical-surgical emergency.</p>
<b>4.2. proficiencies</b>	<p><b>Basic practical skills:</b></p> <ul style="list-style-type: none"> <li>-correct use of the stethoscope, sphygmomanometer, thermometer, pulse oximeter</li> <li>-ability to communicate appropriately with the patient in the dental office starting from the very first internship</li> <li>-basic knowledge of medical terminology in Romanian and medical Latin (for understanding semiological terminology)</li> </ul>

#### 5. Conditions (where appropriate)

<b>5.1. for lecture activity</b>	Lecture hall with a capacity of minimum 70 seats, computer, overhead projector.
<b>5.2. for practical class/ seminar activity</b>	Hospital wards, clinical laboratory, radiology, ultrasound office and UMF “Carol Davila” simulation center.

#### 6. Learning outcomes\*

Knowledge	Skills	Responsibility and autonomy
Student/graduate: -identifies, describes, and evaluates etiopathogenic mechanisms; -the student should be able to recognize the main symptoms and signs of medical emergencies that may occur in	Student/graduate: -recognizes and differentiates the general state of health and/or disease in patients who are to undergo dental treatments; -demonstrates, adapts, and integrates the theoretical knowledge and practical skills	Student/graduate: -requests the patient’s consent for anamnesis and further examination; -shows respect, empathy, and discretion towards the patient -respects the confidentiality of patient data;

<p>the dental office;</p> <ul style="list-style-type: none"> <li>-possesses therapeutic knowledge, in accordance with the pathogenic mechanisms involved;</li> <li>-establishes principles of diagnosis and treatment specific to medical emergencies.</li> </ul>	<p>necessary for assessing disease status, using specific clinical and paraclinical methods and techniques.</p>	<ul style="list-style-type: none"> <li>-asks for help when their own knowledge is exceeded;</li> <li>-shows openness to collaboration with colleagues and teaching staff from the very first days of internship;</li> <li>-integrates the suggestions received from them into personal and professional development.</li> </ul>
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## 7. Discipline objectives (correlated with learning outcomes)

<b>7.1. General objective</b>	<p>The course and practical training in <b>FIRST AID. MEDICAL AND SURGICAL EMERGENCIES IN DENTISTRY</b> aim to present, in a concise and logical manner and in accordance with the most up-to-date data from the specialized literature, the main conditions that fall within the scope of Emergency Medicine; to develop the necessary skills for the rapid recognition, in the dental office, of diagnoses that require prompt medical intervention, in the absence of which the patient's life could be endangered, as well as to build coherent and accurate medical reasoning, using appropriate terminology.</p>
<b>7.2. Specific objectives</b>	<p>At the end of the internship, students must be able to:</p> <ul style="list-style-type: none"> <li>-carry out anamnesis correctly;</li> <li>-recognize the manifestations of the main medical-surgical emergencies;</li> <li>-perform electrocardiograms independently, measure blood pressure accurately, as well as central and peripheral pulse and oxygen saturation;</li> <li>-establish the best treatment plan for various clinical forms of medical emergencies.</li> </ul>

## 8. Contents

8.1. Lecture	Teaching methods	Observations
<b>1. MEDICAL EMERGENCIES</b> – introductory lecture. The organization of the dental office. The emergency kit.	The interactive presentation of the material according to the syllabus, using multimedia means, power point presentations, movies related to the teaching activity.	
<b>2. RESPIRATORY DYSPNEA.</b> Asthma episode. Hyperventilation. Aspiration of foreign bodies.		
<b>3. CARDIAC DYSPNEA.</b> Cardiac failure. Acute pulmonary edema. Hypertensive emergencies.		
<b>4. THORACIC PAIN</b>		
<b>5. CARDIAC ARREST. CARDIO-PULMONARY RESUSCITATION (CPR)</b>		
<b>6. WORSENING/ LOSS OF CONSCIOUSNESS. CONVULSIONS.</b> Syncope. Orthostatic hypotension.		

<p>Hypoglycemic/ hyperglycemic coma. Cerebrovascular accident (CVA). Disorders of the thyroid gland.</p>		
<p><b>7.ALLERGIES. PARTICULARITIES OF MEDICAL CONDUCT TOWARDS ELDERLY PATIENTS, CANCER PATIENTS OR TRANSPLANT PATIENTS.</b></p>		
<p><b>8.2. Practical classes/ seminar</b></p> <p>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.</p>	<p><b>Teaching methods</b></p> <p>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 interventional”, in Thomas Masaryk str., no. 19, founded through the project with European funding e-PNRR: 2009669020, within the <b>Cardiology Laboratory</b>, 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.</p>	<p><b>Observations</b></p> <ul style="list-style-type: none"> <li>– Attendance at Seminars/Practical Classes is mandatory, and all unexcused absences must be made up.</li> <li>– Absences will be made up under the supervision of a teaching staff member, after 2:00 p.m., during that day's duty hours.</li> </ul>
<p>2.The clinical management of the patient with dyspnea in the dental office (1). Anamnesis. The objective examination. The ECG. Case presentation.</p>		
<p>3.The therapeutic management of the patient with dyspnea in the dental office (2). Case presentation.</p>		
<p>4.The approach of the patient with thoracic pain: anamnesis, clinical examination, ECG. Case presentation.</p>		
<p>5.Cardiac arrest. Cardiopulmonary resuscitation (CPR). The practical stages of Basic Life Support (BLS). Case presentation.</p>		
<p>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.</p>		
<p>7.The assessment of the patient that develops an allergic reaction in the dental office: causes, clinical examination, treatment. Case presentation.</p>		
<p><b>Recent bibliography:</b></p> <ol style="list-style-type: none"> <li>1. Current Lecture</li> <li>2. <b>Medical Emergencies in the Dental Office.</b> Stanley F. Malamed. Elsevier. <b>2022</b></li> <li>3. <b>Tratat de Medicină Internă.</b> Vol. 1, sub redacția I Bruckner, Editura Medicală, <b>2024</b></li> <li>4. <b>Medicină Internă. Patologie respiratorie, cardiovasculară și hematologică.</b> Laurențiu Solodoc. Editura Sedcom Libris. <b>2023</b></li> </ol>		

5. <b>Harrison. Principiile Medicinei Interne.</b> - Ediția a 19-a. Volumele 1 și 2. Dan L. Longo, Anthony Fauci. Editura ALL, 2021
6. <b>Manualul OXFORD de Medicină Clinică.</b> Ian B. Wilkinson. Tim Raine. Anna Goodhart. Catriona Hall. Harriet O Neill. Editura Prior. 2019
7. <b>General Medicine and Surgery for Dental Practitioners</b> , third edition, Mark Greenwood, John G. Meechan, Springer Nature Switzerland AG 2019
8. <b>Publicații periodice:</b> Romania Journal of Internal Medicine New England Journal of Medicine

## 9. Assessment

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percentage of final grade
<b>9.4. Lecture</b>	<p><b>Requirements for grade 5:</b> 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><b>Requirements for grade 10:</b> Solving 90% of the questions,</p>	<p><b>Viva-voce examination</b> Multiple choice questions -30 questions -One correct answer</p>	<b>80%</b>
<b>9.5. Practical classes/seminar</b>	<p><b>Requirements for grade 5</b> 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><b>Requirements for grade 10:</b> 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><b>Practical assessment</b> 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>	<b>20%</b>
<b>9.5.1. Individual project (if any)</b>	-	-	-
<b>Minimum performance standard</b>			
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.			