

CHART OF DISCIPLINE/ SYLLABUS

1. Study Program Data

1.1 High Education Institution	“VICTOR BABEȘ” UNIVERSITY OF MEDICINE AND PHARMACY OF TIMIȘOARA
1.2 Faculty	FACULTY OF DENTAL MEDICINE
1.3 Department	II MD
1.4 Study Domain ¹⁾	HEALTH
1.5 Cycle Studies ²⁾	LICENSE
1.6 Study programme/ Qualification	DENTAL MEDICINE

2. Course Data

2.1.Course/Department	DIAGNOSIS AND TREATMENT PROTOCOLS IN DENTAL MEDICINE							
2.2 Course tutor	Assoc. Prof. MARIANA MIRON, PhD. MD.							
2.3 Practical activity tutors	Assoc. Prof. MARIANA MIRON, PhD. MD. Assist. Drd. EDMOND CIORA							
2.4. Year of study	V	2.5 Semester	7	2.6 Assessment	COLOCVIUM	2.7 Course rank	Content ³⁾	DS
							Mandatory /Compulsory ³⁾	DO

3. Duration/Estimated Time (number of hours/ semester of teaching activity)

3.1 Number of hours/ week	2	3.2 lecture/course	1	3.3 laboratory	1
3.4 Total hours of curriculum	28	3.5 lecture/course	14	3.6 laboratory	14
Time distribution for course activities					Hours
Study support- manuals, lectures, references and notes					14
Additional documentation – library, dedicated platforms from domain					4
Documentation for seminars/ practical activity/ projects, themes, portfolios and essays					4
Tutoring					-
Assessment					1
Other activities					-
3.7 Total number of hours for individual study		18			
3.8 Total number of hours per semester		25			
3.9 Number of credits⁵⁾		1			

4. Preconditions (if applicable and requested)

4.1 Courses- studied curriculum / rules for attending the course	<ul style="list-style-type: none"> General and minimal knowledge of human physiology and general risk disorders which may lead to medical emergency situations in the dental practice
4.2 Practical activities/seminars/projects studied curriculum, basic skills/ rules for attending the course	<ul style="list-style-type: none"> General and specific competencies such as: establishing connection and communication when working in a team

5. Condition (if applicable and requested)

5.1 Courses	<ul style="list-style-type: none"> Attendance is compulsory, absences over 30% from the overall duration of the didactic process are not allowed Students study the lecture notes and the references given in each lecture Use of modern technology in the teaching process such as: laptop, projector, Internet, Power Point presentations and other specific didactic materials
5.2 Laboratory/practical activity/ project	<ul style="list-style-type: none"> Attendance is compulsory, absences over 30% from the overall duration of the didactic process are not allowed

	<ul style="list-style-type: none"> • Active participation of students, individually and in groups, in learning the maneuvers used in emergency cases, the CPR maneuver, as well as the techniques used in the case of the respiratory obstruction with foreign bodies • The discipline ensures the emergency kit, the mannequin, the patient's record and the supplies used in disinfection, pest control and sterilization
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6. Key competencies and basic skills

Professional Competencies	<ol style="list-style-type: none"> 1. Knowledge of the basic rules in the case of medical emergency 2. Acquisition of the correct techniques of positioning the patient and of the basic maneuvers necessary for maintaining the vital functions of the patient in cases of vital risk for the patient 3. Knowledge of the medical emergency kit and of the protection equipment 4. Acquisition of the clinical symptomatology of general disorders which may present vital risk and which are frequently met in the dental practice, according to the subject under discussion 5. Knowledge of the contents of the patient's record 6. Knowledge of the disinfection and sterilization protocols in the dental practice
Transversal Competencies	<ol style="list-style-type: none"> 1. Raise awareness of the role the dentist has in evaluating the general status of a medical risk patient present in the dental practice 2. Raise awareness of the role the dentist has in preventing the occurrence of a medical emergency of vital risk in the dental practice 3. Develop the observation skill and improve team work activity

7. Disciplines/Course objectives (based on the key competences)

7.1 Disciplines/Course general objectives	1. Presentation of disorders of high medical risk, of the maneuvers which can trigger a situation of vital risk for the patients in the dental practice, as well as the required emergency treatment protocols
7.2 Disciplines/Course specific objectives	<ol style="list-style-type: none"> 1. recognize and identify the emergency situations in the dental practice 2. acquisition of the basic procedures in medical emergency situations 3. knowledge of the stages of the emergency treatment required for the patient who undergoes a dental treatment, according to the specific medical risk 4. knowledge of the contents of the patient's record 5. acquisition of the protection measures, disinfection, pest control and sterilization protocols in the dental practice

8. Content

8.1 Course	Teaching method	Number of hours	Notification
1. Basic procedures in medical emergency situations - CPR	- Teaching style:	1	- presentation, multimedia
2. Basic procedures in medical emergency situations - foreign body aspiration.	- interactive	1	- Video presentation materials
3. Syncope in the dental practice - management	- Lecture	1	
4. Hypersensitivity reactions in the dental practice.	- Explanation	1	
	- Posing	1	

5. Cardiovascular disorders: Arterial hypertension. Angina pectoris. Cardiac arrest. Stroke.	problems - Video Presentatio materials	1	
6. Cardiovascular disorders: Infective endocarditis. Cardiac insufficiency. Rhythm disorders.		1	
7. Cardiovascular disorders: Coagulation and hemostasis disorders.		1	
8. Chronic obstructive pulmonary disorders. Bronchial asthma. Hyperventilation.		1	
9. Pregnancy in dental practice. Epileptic crisis – management in dental practice		1	
10. Diabetic patient's emergency in the dental office: hypoglycemia, hyperosmolar coma, diabetic aceto-ketosis		1	
11. Endocrine emergencies: thyrotoxic crisis, mixedemia coma, hypocalcemia during dental treatment		1	
12. Patient management with hepatitis in the dental office		1	
13. Patient management with addicts in the dental office		1	
14. Revision course		1	

Mandatory references:

1. Todea C., Bojoga D.E., Ciora E., Cirdei M., Constantin G.D., Hanigovski E., Luca R.L., Miron M.I., Ioana Ruxandra Munteanu. *Emergencies in dental medicine, chapter1*, Editura Victor Babes, Timisoara, **2021**, ISBN 978-606-786-254-6
2. Olasveengen Theresa M., Semeraro F., Ristagno G., Castren M., Handley A., Kuzovlev A., Monsieurs K. G., Raffay Violetta, Smyt M., Soar J., Svavarsdottir H., Perkins G. D. *European Resuscitation Council Guidelines 2021: Basic Life Support* <https://cprguidelines.eu>
3. Flack JM, Adekola B. *Blood pressure and the new ACC/AHA hypertension guidelines*. Trends Cardiovasc Med. **2020** Apr;30(3):160-164. doi: 10.1016/j.tcm.2019.05.003. Epub 2019 May 15. PMID: 31521481.
<https://www.sciencedirect.com/science/article/pii/S1050173819300684?via%3Dihub>

Optional references:

1. 1. Malamed, Stanley F. *Medical Emergencies in the Dental Office, 7th Edition*, Mosby ELSEVIER, **2015** ISBN: 978-0-323-17122-9
2. Ogle, Orrett E., Dym H., Weinstock, Robert J. *Medical Emergencies in dental practice*, Quintessence Publishing Co, Inc., **2016** ISBN 9780867155693
3. Mohideen K, Thayumanavan B, Balasubramaniam AM, Vidya KM, Rajkumari S, Bharkavi SKI. *Basics of Management of Medical Emergencies in Dental Office and Emergency Drug Kit*. Int J Sci Stud **2017**; 5(4):273-279. Online ISSN: 2321-595X, DOI: 10.17354/ijss/2017/378
https://www.researchgate.net/publication/319507633_Basics_of_Management_of_Medical_Emergencies_in_Dental_Office_and_Emergency_Drug_Kit ;
<https://www.researchgate.net/publication/319507633>
4. Rajani R, Klein JL. *Infective endocarditis: A contemporary update*. Clin Med (Lond). **2020** Jan; 20(1):31-35. doi: 10.7861/clinmed.cme.20.1.1. PMID: 31941729; PMCID: PMC6964163.

8.2 Seminars/ Laboratory/practical activity/ projects	Teaching-learning, methods	Number of hours	Notification
1. Patient history. Identification of emergency situations in the dental practice.	<ul style="list-style-type: none"> - Conversation - Posing problems - Explanation and presentation of videos containing: <ul style="list-style-type: none"> . demonstration on the mannequin . presentation of the medical emergency 	1	Realization of video materials within the discipline, by the members of the discipline, using the equipment and the
2. Knowledge of the emergency treatment stages in adults as well as in children, and the acquisition of the technique on the mannequin.		1	
3. Presentation of the emergency kit and of the protection equipment in the dental practice.		1	
4. Diagnosis and testing hypersensitivity to		1	

local anaesthetics in dentistry. Emergency approach in the anaphylactic shock.	kit . presentation of the patient's record . presentation of the instruments preparation for sterilization, of the procedures for disinfection and sterilization in the dental practice - Presentation of specialty articles and interactive debates concerning the points dealt with in the subject under discussion		mannequin, for:
5. Management of instruments and of the dental practice in order to ensure disinfection and sterilization in the dental practice.		1	- the study of the emergency kit in the dental practice
6. Presentation of the patient's record: observation sheet, medical questionnaires, consent forms, X-ray examination, dental practice register.		1	- explaining and visualizing the patient's positions in emergency situations in the dental chair
7. Management of the cardiac patient in the dental practice.		1	
8. Management of the patient having the respiratory airways obstructed, partially or totally, in adults and children.		1	- video presentation of the CPR protocol on the mannequin,
9. Acute respiratory insufficiency. Hyperventilation. Tuberculosis – how do we approach it in the dental practice?		1	
10. Special situations: pregnancy, epileptic seizure and stroke in the dental practice.		1	- video presentation of foreign body removal techniques on the mannequin
11. Management of the diabetic patient in the dental practice. Emergency treatment in case of the hypoglycemic coma and its prevention.		1	
12. Patients who undergo radiotherapy, chemotherapy. Toxicomania – hypothetical situations in the dental practice.		1	- video presentation of pulse and BP recording, recording blood pressure and sugar level
13. Presentation of specialty articles concerning the subjects studied.		1	
14. Revision session.		1	

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3. Flack JM, Adekola B. *Blood pressure and the new ACC/AHA hypertension guidelines*. Trends Cardiovasc Med. **2020** Apr;30(3):160-164. doi: 10.1016/j.tcm.2019.05.003. Epub 2019 May 15. PMID: 31521481. <https://www.sciencedirect.com/science/article/pii/S1050173819300684?via%3Dihub>

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9. Correlations between the content of the course and the requirements of the professional field and relevant employers

The usual activity of a dentist implies specialty manual labour performed for different patients who may present certain changes of their general health status as well as particularities regarding their lifestyle and professional and social behaviour. Because of these particularities, there is a potential risk of occurrence of medical emergencies in the dental practice, which requires their identification and prevention. The emergency in the dental practice is an unforeseeable situation, of complex manifestation and variable duration, susceptible of compromising the functional and vital prognostic of the patient in some cases. It is the dentist who bears the responsibility of taking the decisions and assume the consequences of the way they managed the situation in case of an emergency in the dental practice. In order to prevent emergencies, but also to be able to manage properly such situations, the dentist must be prepared both theoretically and practically. The discipline *Diagnosis And Treatment Protocols In Dental Medicine*, due to the subjects covered, aims at facilitating the theoretical and practical training of the future dentist, by offering them the acquisition of theoretical knowledge and necessary specific skills. All these will allow the dental practitioner to recognise and identify rapidly the emergency situations in the dental practice, to know the required stages of the emergency treatment, to perform correctly and timely the basic procedures in medical emergency situations and last but not least, to prevent such situations which may endanger the patient's life.

10. Assessment

Activity	10.1 Assessment criteries	10.2 Assessment methods	10.3 Percentage of the final grade
10.4 Course	<p><i>Knowledge for score 5:</i></p> <ul style="list-style-type: none"> - obtain the minimum standards of performance (50% out of the total test score) <p><i>Knowledge for score 10:</i></p> <ul style="list-style-type: none"> - obtain the maximum standards of performance (over 90% out of the total test score) 	<p>Assessment consists of a multiple choice test, made out of 2 types of questions: single answer questions and multiple answer questions.</p> <p>Individual student assessment regarding the acquisition of CPR maneuvers on the mannequin</p>	50%
10.5 Practical activity/ seminar	<p><i>Knowledge for score 5:</i></p> <ul style="list-style-type: none"> - acquisition of the mandatory basic maneuvers in situations of medical emergency of vital risk <p><i>Knowledge for score 10:</i></p> <ul style="list-style-type: none"> - active participation in all laboratory sessions and acquisition of theoretical and practical aspects introduced in each session 	<p>Practical evaluation of acquisition of the basic maneuvers in situations of medical emergency of vital risk</p>	50%
10.6 Minimum performance standard-basic knowledge			
<ul style="list-style-type: none"> • Meet the criteria regarding the minimum number of attendances in the lecture and laboratory sessions. • Score at least 5 in the lecture activities, so that the assessment grid established by the teacher is respected. • Score at least 5 in the laboratory activities. 			

Date	Signature of the course holder Assoc. Prof. Mariana Miron, PhD	Signature of the laboratory/seminar holder Assoc. Prof. Mariana Miron, PhD Assist. Drd. Edmond Ciora
Signature of the Head of Discipline		
Date of approval in the Department	Signature of the Head of Department Prof. Silviu Brad PhD	

- 1) Domeniul de studii - *se alege una din variantele:* Licență/ Masterat/ Doctorat (**se completează conform cu Nomenclatorul domeniilor și al specializărilor/ programelor de studii universitare în vigoare**) ;
- 2) Ciclul de studii - *se alege una din variantele:* Licență/ Master/ Doctorat;
- 3) Regimul disciplinei (conținut) - *se alege una din variantele:* **DF** (disciplină fundamentală)/ **DD** (disciplină din domeniu)/ **DS** (disciplină de specialitate)/ **DC** (disciplină complementară) - *pentru nivelul de licență*; **DAP** (disciplină de aprofundare)/ **DSI** (disciplină de sinteză)/ **DCA** (disciplină de cunoaștere avansată) - *pentru nivelul de masterat*;
- 4) Regimul disciplinei (obligativitate) - *se alege una din variantele:* **DI** (disciplină obligatorie)/ **DO** (disciplină opțională)/ **DFac** (disciplină facultativă);
- 5) Un credit este echivalent cu 25 de ore de studiu (activități didactice și studiu individual).

*nr de ore de studiu individual (punctul 3.7.) = nr total ore (nr credite X 25) minus nr. ore din planul de învățământ (punctul 3.4) minus ore alocate pentru examinări. Aceste ore se împart între

Studiul după manual, suport de curs, bibliografie și notițe	
Documentare suplimentară în bibliotecă, pe platformele electronice de specialitate și pe teren	
Pregătire seminarii/ laboratoare/ proiecte, teme, referate, portofolii și eseuri	
Tutoriat	

- 6) Pentru specializările și/sau disciplinele a căror tematică se regăsește în bibliografia de rezidențiat, aceasta devine obligatorie. Dintre titlurile bibliografice, 50% trebuie să fie din ultimii 5 ani.