

DISCIPLINE SHEET

1. Data about the Program

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| 1.1 Academic institution | UNIVERSITY OF MEDICINE AND PHARMACY "VICTOR BABEȘ" TIMIȘOARA |
| 1.2 Faculty | FACULTY OF DENTISTRY |
| 1.3 Department | 2 MD |
| 1.4 Field of studies ¹⁾ | Licence |
| 1.5 Cycle of studies ²⁾ | Licence |
| 1.6 Program of studies/ Qualification | MD |

2. Data about the Discipline

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| 2.1 Name | PATIENTS WITH RISK IN THE DENTAL PRACTICE | | | | | | | |
| 2.2 Lecture holder | Assist. Prof. Dr. MARIANA MIRON, PhD | | | | | | | |
| 2.3 Laboratory holder | Assist. Prof. Dr. MARIANA MIRON, PhD | | | | | | | |
| 2.4 Year of study | 5th | 2.5 Semester | 9 | 2.6 Type of assessment | MULTIPLE CHOICES | 2.7 Discipline policy | Contents ³⁾ | DS |
| | | | | | | | Obligativity ³⁾ | DO |

3. Total Estimated Time (hours/ semester of didactic activities)

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|--|-----------|-----------------------|-----------|----------------|-----------|
| 3.1 Number of hours/ week | 2 | 3.2 of which: lecture | 1 | 3.3 laboratory | 1 |
| 3.4 Total of hours in the curriculum | 28 | 3.5 of which: lecture | 14 | 3.6 laboratory | 14 |
| Time unit | | | | | hours |
| Textbook study, course frame, bibliography and notes | | | | | 8 |
| Extra study in the library, on specialty electronic platforms and on the job | | | | | 14 |
| Preparation of seminars/ laboratories/ projects, themes, papers, portfolios and essays | | | | | 10 |
| Tutoring | | | | | - |
| Examinations | | | | | 2 |
| Other activities | | | | | 14 |
| 3.7 Total hours of individual study | 48 | | | | |
| 3.8 Total hours/ semester | 76 | | | | |
| 3.9 Number of credits⁵⁾ | 1 | | | | |

4. Preconditions (where necessary)

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| 4.1 regarding the curriculum | <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 regarding the competencies | <ul style="list-style-type: none"> General and specific competencies such as: <ul style="list-style-type: none"> - guiding and monitoring the students' learning process - establishing connection and communication when working in a team |

5. Conditions (where necessary)

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| 5.1 lecture development | <ul style="list-style-type: none"> Attendance is compulsory, absences over 20% 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 seminar/ laboratory/ project development | <ul style="list-style-type: none"> Attendance is compulsory, absences over 20% from the overall duration of the didactic process are not allowed 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 |

6. Specific Competencies Acquired

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| Professional Competencies | <p>Pc1. Knowledge of the basic rules in the case of medical emergency</p> <p>Pc2. 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</p> <p>Pc3. Knowledge of the medical emergency kit and of the protection equipment</p> <p>Pc4. 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</p> <p>Pc5. Knowledge of the contents of the patient's record</p> <p>Pc6. Knowledge of the disinfection and sterilization protocols in the dental practice</p> |
| Transversal Competencies | <p>Tc1. Raise awareness of the role the dentist has in evaluating the general status of a medical risk patient present in the dental practice</p> <p>Tc2. Raise awareness of the role the dentist has in preventing the occurrence of a medical emergency of vital risk in the dental practice</p> <p>Tc3. Develop the observation skill and improve team work activity</p> |

7. Discipline Objectives (resulting from the acquired specific competencies)

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| 7.1 General objective of the discipline | - 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 approach |
| 7.2 Specific objectives | <ul style="list-style-type: none"> - recognize and identify the emergency situations in the dental practice - acquisition of the basic procedures in medical emergency situations - knowledge of the stages of the emergency treatment required for the patient who undergoes a dental treatment, according to the specific medical risk - knowledge of the contents of the patient's record - acquisition of the protection measures, disinfection, pest control and sterilization protocols in the dental practice |

8. Contents

| Contents | | | |
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| 8.1 Lecture | Teaching methods | Nr of hours | Observations |
| 1. Basic procedures in medical emergency situations - CPR | <ul style="list-style-type: none">- Teaching style: interactive- Lecture- Explanation- Posing problems- Video presentation materials | 1 | <ul style="list-style-type: none">- Demonstration on clinical situations- PowerPoint presentation, multimedia |
| 2. Basic procedures in medical emergency situations - foreign body aspiration. | | 1 | |
| 3. Syncope in the dental practice - management | | 1 | |
| 4. Hypersensitivity reactions in the dental practice. | | 1 | |
| 5. Cardiovascular disorders: Arterial hypertension. Angina pectoris. Cardiac arrest. Stroke. | | 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 | |
| Compulsory bibliography: 1. Carmen Todea. <i>The Management of Medical Risk Patients in the Dental Practice</i> , Lito UMF Victor Babeş, Timișoara, 2012 2. https://cprguidelines.eu | | | |
| Optional bibliography: 1. Malamed S.F. <i>Medical Emergencies in the Dental Office</i> , 6th Edition, Mosby, 2007 2. <i>Advanced Life Support – 6th Edition</i> , Resuscitation Council (UK) ALS, 2013 3. Little J.W., Falace D., Miller C., Rhodus N.L. <i>Dental Management of the Medically Compromised Patient - E-Book</i> , 8th Edition, Mosby, 2012 | | | |

| 8.2 Seminar/ Laboratory / Internship/ Project | Teaching-learning methods | Nr of hours | Observations |
|--|---|-------------|--|
| 1. Patient history. Identification of emergency situations in the dental practice. | <ul style="list-style-type: none">- Conversation- Posing problems- Explanation- Demonstration on the mannequin- Presentation of the medical emergency 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 | 1 | <ul style="list-style-type: none">- The study of the emergency kit in the dental practice- Individual practice of the patient's positions in the dental chair in emergency situations- Performing the CPR maneuver on the mannequin- Performing on the mannequin the techniques of eliminating the foreign body |
| 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 local anaesthetics in dentistry. Emergency approach in the anaphylactic shock. | | 1 | |
| 5. Management of instruments and of the dental practice in order to ensure disinfection and sterilization in the dental practice. | | 1 | |
| 6. Presentation of the patient's record: observation sheet, medical questionnaires, consent forms, X-ray examination, dental practice register. | | 1 | |
| 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 | |
| 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 | |
| 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 | |
| 13. Presentation of specialty articles concerning the subjects studied. | | 1 | |
| 14. Revision session. | | 1 | |
| Compulsory bibliography: 1. Carmen Todea. <i>The Management of Medical Risk Patients in the Dental Practice</i> , Lito UMF Victor Babeş, Timișoara, 2012 2. https://cprguidelines.eu | | | |
| Optional bibliography: 1. Malamed S.F. <i>Medical Emergencies in the Dental Office</i> , 6th Edition, Mosby, 2007 2. <i>Advanced Life Support – 6th Edition</i> , Resuscitation Council (UK) ALS, 2013 | | | |

9. Corroboration of Discipline Contents with the Requirements of the Epistemic Communities Representatives, Professional Associations and Representative Employers in the Domain Associated with the Program

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 *Patients with Risk in the Dental Practice*, 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 type | 10.1 Assessment criteria | 10.2 Assessment methods | 10.3 Share of the final score |
|---|--|---|-------------------------------|
| 10.4 Lecture | <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) | Assessment consists of a multiple choice test , made out of 2 types of questions: single answer questions and multiple answer questions. | 60% |
| 10.5 Laboratory/ Internship | <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>Individual student assessment regarding the acquisition of CPR maneuvers on the mannequin</p> <p>Assessment based on observation and ongoing testing</p> | 40% |
| 10.6 Minimum standard of performance | | | |
| <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. | | | |

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| Date of completion 29.10.2018 | Signature of course holder Assist. Prof. Dr. Mariana Miron, PhD | Signature of laboratory holder Assist. Prof. Dr. Mariana Miron, PhD |
| Signature of Head of discipline Prof. Dr. Carmen Todea, PhD | | |
| Date of presentation in the department 30.10.2018 | Signature of Head of department Prof. Dr. Carmen Todea, PhD | |

Notă:

- 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 – 30 de ore de studiu (activități didactice și studiu individual).
- 6) Pentru specializările și/sau disciplinele a căror tematică se regăsește în bibliografia de rezidențiat, aceasta devine obligatorie.