



CD 8.5.1 DISCIPLINE CURRICULUM FOR
UNIVERSITY STUDIES

Edition: 08
Date: 21.02.2020

Pag. 1 / 9

FACULTY STOMATOLOGY
STUDY PROGRAM 0911.1 STOMATOLOGY
CHAIR OF ODONTOLOGY, PERIODONTOLOGY AND ORAL
PATHOLOGY "SOFIA SÎRBU"

APPROVED

at the meeting of the Commission for Quality
Assurance and Evaluation of the Curriculum in
Stomatology

Minutes No. 1 of 22.09.2020

Chairman, PhD, associate professor
Stepco Elena

(signature)

APPROVED

at the Council meeting of the Faculty
Stomatology

Minutes No. 2 of 30.09.2020

Dean of Faculty, PhD, associate professor
Solomon Oleg

(signature)

APPROVED

approved at the meeting of the chair Odontology,
periodontology and oral pathology "Sofia Sîrbu"

Minutes No. 01 of 25-08-2020

Head of chair, PhD, DMD, professor

Ciobanu Sergiu

(signature)



CURRICULUM

DISCIPLINE APPLICATIVE PERIODONTOLOGY

Integrated studies

Type of course: **Optional**

Curriculum developed by the group of authors:

Chetruş Viorica, PhD, associate professor

Chişinău, 2020



CD 8.5.1 DISCIPLINE CURRICULUM FOR UNIVERSITY STUDIES

Edition: 08

Date: 21.02.2020

Pag. 2 / 11

II. PRELIMINARIES

- **General presentation of discipline: place and role of discipline in the formation of specific competences of professional training program/ speciality.**

Periodontology is a very important compartment in dentistry.

Students training at this compartment of dentistry is performed with their acquaintance and initiation with the specific of conservative periodontology, arrangement and endowment of a periodontal dental office and organization of ambulatory periodontal assistance. The basic stages in patient examination and options of clinical and paraclinical examination described in this compartment are targeted to the development of clinical thinking of students with the purpose of establishment of a diagnosis and treatment plan in periodontal diseases. A special attention is accorded to prevention, prophylaxis, hospitalization and monitoring of patients with periodontal disease. Doctor attitude in periodontal dental office, getting out from asepsis principles, antisepsis and ergonomics, anamnesis, clinical and paraclinical examination, setting diagnosis, represents one of the development ways of future specialists.

Curriculum mission (purpose) in professional formation

Periodontology has the purpose the integration of accumulated knowledge of the future periodontists in order to provide an efficient dental assistance. Respecting the primary, secondary and tertiary prophylaxis principles, clinical and paraclinical examination, described methods tends to develop abilities, clinical thinking of students targeted to skills accumulation in optimal determination of methods of prophylaxy, diagnosis and treatment of patients with periodontal disease and in optimal information of the patients about periodontal disease, oral hygiene and its importance in periodontal disease treatment.

- **Teaching languages of discipline:** romanian and english.
- **Beneficiaries:** Vth year students, Faculty of Stomatology.

I. DISCIPLINE ADMINISTRATION

Discipline code	S.09.A.117		
Discipline name	Applicative periodontology		
Responsible of discipline	Chetruş Viorica, PhD, associate professor		
Year	V	Semester	IX
Total hour number, including:			30
Courses	10	Practical work	10
Practical lessons	-	Individual work	10
Evaluation form	CD	Number of credits	1



CD 8.5.1 DISCIPLINE CURRICULUM FOR UNIVERSITY STUDIES

Edition: 08

Date: 21.02.2020

Pag. 3 / 11

III. OBJECTIVES OF FORMATION INSIDE OF DISCIPLINE

- *At the level of knowledge and understanding:*

Student must know:

- History of periodontology. The topic of study of periodontology as a medical-surgical branch of general dentistry. Terminology. Development and embryonic evolution of teeth and marginal periodontium. Functional-evolutional aspects of radicular cementum, desmodontium and alveolar bone.
- The structure of superficial periodontium. Morpho-functional aspects of gingival structure components: macromorphological – type of gingiva, supraalveolar ligament and micromorphological (hystological) – epithelium, corium.
- The structure of supporting periodontium. Morpho-functional aspects of deep periodontium: macro- and micromorphological aspects of radicular cementum, desmodontium, alveolar bone.
- Epidemiology of periodontal disease. Periodontal management of patients with general diseases/systemic diseases (diabetes mellitus, smoking, pregnancy). The role of bacterial plaque in the appearance and evolution of periodontal disease. The role of favorable local factors and general factors in the appearance and evolution of periodontal diseases.
- Modern concepts in pathogenesis, onset and evolution of periodontal disease.
- Basic principles regarding the objective clinical examination of healthy marginal periodontium and in disease condition.
- Evaluation of radiological examination in periodontology (OPG, RVG, CT,CBCT, etc.)
- Modern criteria in diagnosis of gingivitis and marginal periodontitis. Identification methods of pathogenic microflora for a correct diagnosis and specific antimicrobial treatment.
- Modern aspects in clasiffication of periodotal disease. Particularities of clinical forms of chronic gingivitis of microbial etiology in combination with other local and systemic factors.
- Chronic marginal periodontitis mild form, single reversible form rezulted from clinical evolution of chronic gingivitis. Morphopathological and radiological modifications in chronic marginal periodontitis, mild form.
- Chronic marginal periodontitis, moderate form. Morphopathological and radiological modifications.
- Chronic marginal periodontitis, severe form in association with aggressive forms of periodontitis. Morphopathological and radiological modifications.
- Stages and modern techniques of complex periodontal treatment. Prophylaxis through hygienic measures in periodontal inflamation. Its role.
- Elimination of the soft and hard supra- and subgingival deposits (control of bacterial plaque – manual and ultrasonic scaling, „scaling-root planning” SRP). The role of gingivo-periodontal debridement in prevention of periodontal disease in order to obtain a susceptibility for a regenerative response.
- Elimination of the local rick factors by treating the odontal lesions, iatrogenics, by teeth extractions of IIIrd degree mobility to the patients with periodontal disease.



CD 8.5.1 DISCIPLINE CURRICULUM FOR UNIVERSITY STUDIES

Edition: 08

Date: 21.02.2020

Pag. 4 / 11

- ***At the level of application:***
 - ✓ To possess the capacities for periodontology's role evaluation in clinical training of dental student;
 - ✓ To possess knowledge referring to biologic structure of superficial and supporting periodontium;
 - ✓ To possess knowledge about modern concepts in pathogenesis and etiology;
 - ✓ To possess knowledge in collecting data about patients (interrogation, investigation, combined);
 - ✓ To know the mechanism of action of anti-inflammatory and antimicrobial remedies;
 - ✓ To possess knowledge to differentiate the healthy periodontium from periodontal disease, using objective examination, periodontal indices, radiological, microbiological and biochemical investigations;
 - ✓ To know how to avoid the possible causes of complications as the result of local conservative treatment;
 - ✓ To possess capacities to implement the accumulated knowledge in a researcher activity;
 - ✓ To be able to use scientific information obtained as the result of studies using new informational and communication technologies;
 - ✓ To possess knowledge in multimedia technology in order to receive, to evaluate, to store, to produce, to present and exchange information.

- ***At the level of integration***
 - ✓ To be able to collect the anamnesis (subjective and objective examination) of the patient with periodontal disease;
 - ✓ To be able to fill in the medical record and informed agreement of the patient with periodontal disease;
 - ✓ To be able to perform clinical examination, periodontal indices, paraclinical examination in order to establish a correct diagnosis;
 - ✓ To be able to describe the stages of local and general conservative treatment;
 - ✓ To know the doctor's conduct during stages of conservative treatment.

IV. CONDITIONINGS AND PRIOR REQUIREMENTS

Knowing and respecting ethical-moral and professional norms. Knowing the purpose and periodontology's tasks. Knowing necessary documents in periodontal dental office (medical record, registre of patient evidence, registre of evidence and control of sterilization). Knowing the collecting of anamnesis (clinical and paraclinical examination) of patient with periodontal disease. Knowing the methods of hygiene and prophylaxis.

V. THEMATIC AND INDICATIVE DISTRIBUTION OF HOURS

Order Nr.	THEME	Number of hours			
		Lectures	Practical lessons	Practical work	Individual work
1.	Students acquaintance with department structure. Introduction in periodontology. Periodontology's purpose. Requirements to arrange and organize the periodontal dental office. Necessary documentation in periodontal dental office.	1		1	1



**CD 8.5.1 DISCIPLINE CURRICULUM FOR
UNIVERSITY STUDIES**

Edition: 08
Date: 21.02.2020

Pag. 5 / 11

Order Nr.	THEME	Number of hours			
		Lectures	Practical lessons	Practical work	Individual work
2.	Primary consultation and preventive oncology in periodontology. Clinical periodontal examination and the indices of gingival-periodontal disease.	1		1	1
3.	Evaluation of complementary examination methods in periodontal disease (microbiological, immunological, biochemical, radiological examination). Biopsy.	2		2	2
4.	Primary and secondary prophylaxis in periodontal disease. Elimination of soft and hard supra- and subgingival deposits, manual and ultrasonic scaling, root planning.	2		2	2
5.	Biostimulation therapy. Local and systemic antimicrobial and antiinflammatory therapy.	1		1	1
6.	Treatment of risk factors. (odontal lesions, iatrogenics, extraction of mobile teeth).	1		1	1
7.	Occlusal balancing in marginal periodontal disease. Temporary immobilization of teeth with periodontal disease.	2		2	2
	Total	10		10	10

VI. REFERENCE OBJECTIVES AND CONTENT UNITS

Objectives	Content units
Students acquaintance with department structure. Organization of periodontal dental office.	
<ul style="list-style-type: none"> ✓ To know the role of the periodontist; ✓ To know the definition of periodontology; ✓ To know the history of periodontology; ✓ To know requirements for periodontal dental office equipment and arrangement; ✓ To know the dental medical documentation in periodontal dental office. 	<p>The role of profession of periodontist. The anatomy of periodontium. The history of periodontology. Requirements for arrangement and organization of periodontal dental office. The rules of hygiene, ethics and deontology. Exterior aspect of a doctor in a medical institution. Dental medical documentation in periodontal dental office.</p>
Primary specialized consultation and preventive oncology in periodontology. Clinical periodontal examination and the indices of gingival-periodontal disease.	
<ul style="list-style-type: none"> ✓ To know what is and what does include primary specialized consultation; ✓ To know the objectives of primary consultation; ✓ To know principles of deontology and medical ethics in patient examination; ✓ To know the stages of history (anamnesis) and its importance in patient examination; ✓ To be able to perform periodontometry; ✓ To be able to introduce in a periodontal chat obtained data from clinic examination and periodontometry; ✓ To be able to determine indices of gingivo-periodontal disease (OHI); index of gingival 	<p>The essential purpose of a primary consultation. The objectives of primary consultation in periodontology. Deontological and ethical conditions in patient examination. The essential purpose in clinical examination. Stages of clinical examination of the patients with periodontal diseases. The purpose and the data offered to us by periodontometry. Patient motivation to the treatment by means of periodontal map. Evaluation of OHI indices; Loe and Silness and indices</p>



**CD 8.5.1 DISCIPLINE CURRICULUM FOR
UNIVERSITY STUDIES**

Edition:	08
Date:	21.02.2020
Pag. 6 / 11	

Objectives	Content units
inflammation Loe and Silness; index of papillary and sulcular bleeding Bleeding index.	of papillary and sulcular bleeding – Bleeding Index.
Evaluation of complementary examination in periodontal diseases (microbiological, immunological, biochemical, radiological examination). Biopsy.	
<ul style="list-style-type: none"> ✓ To understand the importance of paraclinical examination in the patient diagnosis determination; ✓ To know types of laboratory paraclinical and radiological investigations, to be able to analyze the obtained data after the investigation. ✓ To know indications for radiological investigations in periodontology. 	Paraclinical examination used in periodontology. The purpose and role of laboratory paraclinical and radiological investigations. Bacteriological, biochemical, immunological examination. Indications and clinical importance in periodontology. Computer tomography. Types. Purpose. Indications. Biopsy. Definition. Purpose. Indications.
Primary and secondary prophylaxis in periodontal disease. Elimination of the soft and hard supra- and subgingival deposits: manual scaling, ultrasonic scaling and root planning.	
<ul style="list-style-type: none"> ✓ To know the measures included by primary and secondary prophylaxis; ✓ To know the tools and methods for elimination of soft and hard deposits, supra- and subgingival. 	Measures of primary and secondary prophylaxis. Methods, tools and indications for the elimination methods of soft and hard, supra- and subgingival deposits.
Biostimulation, antimicrobial and antiinflammatory therapy.	
<ul style="list-style-type: none"> ✓ To know the meaning of biostimulation, therapeutic possibilities of biostimulation, remedies and vaccines. ✓ To know the methods of microbial microflora determination, microbial and antiinflammatory remedies used in periodontology. 	Indications for biostimulation therapy and vaccines. Indications for taking microbial samples. Methods. Techniques.

VII. PROFESSIONAL COMPETENCES(SPECIFIC (ST) AND TRANSVERSAL (TC)) AND FINALITIES OF THE STUDY

Professional competences (specific) (SC)

PC1: Knowledge about theoretical background related to periodontal system, anamnesis, examination of the patients with periodontal diseases. To be able to analyse the obtained data as the result of clinical and paraclinical examination. Knowing the rights and responsibilities of a periodontist.

PC2: Knowledge about plaque, calculus and bleeding index.

PC3: Knowledge about the diagnosis and treatment plan of the patient with periodontal disease.

PC4: Filling in the medical records of the patients with periodontal disease. Filling in the documentation in the periodontal dental office. Elaboration of an algorithm for patients data collection in the periodontal dental office.

PC5: Data analysis of indicated laboratory paraclinical investigations and their description. Analysis of radiological status. Analysis of computer tomography.

PC6: Demonstration and application of accumulated knowledge in clinical and paraclinical patient examination. Choosing and reasoning of the techniques for communication, data collection, patient preparing for treatment. Promoting the principles of tolerance and compassion towards the patient.

Transversal competences (TC)



CD 8.5.1 DISCIPLINE CURRICULUM FOR UNIVERSITY STUDIES

Edition:	08
Date:	21.02.2020
Pag. 7 / 11	

TC1: Application of professional standards of evaluation. Promotion of logical thinking, practical applicability, evaluation and autoevaluation with making decisions.

TC2: Exercising and realization of team work activities in the periodontal dental office or periodontal department. Promotion of initiative spirit, dialogue, cooperation and respect for colleagues and patients.

TC3: Systemic evaluation of knowledge with participation to specialized skills, conferences, professional congresses. Application of autoevaluation for obtained knowledge.

Finalities of the study:

At the end of discipline study the student will be able to:

- Know the basic principles, work organization and healthcare in periodontal dental office/periodontal department;
- Know the role and functions of periodontist;
- Promote healthy style, to give advices to follow the hygiene of periodontal system; to be able to give speeches, reports, presentations, articles in specialized journals.



**CD 8.5.1 DISCIPLINE CURRICULUM FOR
UNIVERSITY STUDIES**

Edition: 08

Date: 21.02.2020

Pag. 8 / 11

VIII. INDIVIDUAL WORK OF STUDENT

Nr.	Predicted product	Implementation strategies	Evaluation criteria	Deadline
1.	Working with information sources	Reading the lectures or material from the books on the topic. Knowing and selection the additional informational sources on the topic. Reading the text with attention and describing the essential content. Formulating of overviews and conclusions referring to the topic /subject importance.	The ability to underline the essential. Interpretative skills. The ability to analyze and communicate the accumulated on its own.	During the course
2.	Solving the situation problems	Solving case problems, arguing the conclusions at the end of each practical work. Verification of the finalities and appreciation of their achievement. Selection of additional information, using electronic addresses and additional bibliography.	The quality of solving the situation or case problems, the ability to formulate and interpret clinical and paraclinical data. Ability to analyze selected information from national and international specialized websites.	During the course
3.	<p>Evaluation of perception (basic knowledge) in clinical and paraclinical examination of the patients with periodontal disease.</p> <p>Each student will complete the patient's medical record, will establish the stages of the clinical examination and anamnesis.</p> <p>Establish indications for paraclinical investigations, arguing their need.</p>			
3.1.	Data recording and patient anamnesis	Work with the medical record and systematize the stages of data collection and clinical examination.	Assessing the rightness and succession of the performed analysis.	During the course
3.2.	Appreciation of the	The student should study the particularities of the	Assessing the accuracy of the described information by the	During the course



**CD 8.5.1 DISCIPLINE CURRICULUM FOR
UNIVERSITY STUDIES**

Edition: 08

Date: 21.02.2020

Pag. 9 / 11

Nr.	Predicted product	Implementation strategies	Evaluation criteria	Deadline
	indications for radiological examination.	radiological examination and argue the necessity of each type of X-ray.	student.	
3.5.	Preparing for a colloquium	Students will prepare information on the selected topics from the thematic plan with Power Point presentation	Evaluating the quality of the selected material, the design of the project and the ability to reproduce the information.	During the course



IX. METHODOLOGICAL SUGGESTIONS OF TEACHING- LEARNING-EVALUATION

✓ Used methods of teaching and learning.

For the discipline Applicative periodontology there are provided 20 hours for courses and 10 hours for individual work. The courses are taught in the IX semester by the professor responsible for the course. As teaching support there are used specialized manuals available in the university library, the department's methodological recommendations, tables, schemas, electronic information sources, national and international specialized websites, etc. Students receive individual work for preparation, being discussed later in a group on which the student is appreciated for individual work and practical skills. On the last day of the course students are tested through a colloquium.

As a learning method, it is recommended to study the theoretical material from the courses and the books available at the university library.

✓ Applied teaching strategies / technologies (specific for the discipline)

Frontal activity, individual, group discussion, clinical group analysis, clinical trial simulation, comparative analysis.

✓ Evaluation methods (including the method how to calculate the final mark)

Final: The course ends with a colloquium.

X. RECOMMENDED BIBLIOGRAPHY:

A. Compulsory:

1. Valerie Clerehugh, Aradhna Tugnait, Robert J. Genco. Periodontology at a Glance. Wiley- Blackwell
2. Fermin A. Carranza, Michael G. Newman. Clinical Periodontology. 8th Edition. W.B. Saunders Company. 1996

B. Additional:

1. Nicolaiciuc, Valentina. Practical guide : clinical practical lessons for 4th year of study 8th semester : subject : Periodontal disease / V. Nicolaiciuc ; State University of Medicine and Pharmacy "Nicolae Testemitanu", the Department of Therapeutical Dentistry. - Chişinău : Medicina, 2012

2. Fuhrmann, Andreas. Dental radiology : a contemporary guide to dental radiology for students and practitioners / Andreas Furmann. - Stuttgart : Thieme, 2015



**CD 8.5.1 DISCIPLINE CURRICULUM FOR
UNIVERSITY STUDIES**

Edition: 08

Date: 21.02.2020

Pag. 11 / 11