

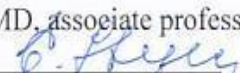


FACULTY OF STOMATOLOGY
PROGRAM OF STUDY 0911.1 STOMATOLOGY
DEPARTMENT OF ODONTOLOGY, PERIODONTOLOGY AND ORAL PATHOLOGY

APPROVED

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


Minutes nr. 2 of 19-02-2018

President, PhD, DMD, associate professor
Stepco Elena 

APPROVED

at the meeting of the Faculty Council of Stomatology

Minutes nr. 6 of 20-02-2018


Dean of the Faculty, PhD, DMD, associate professor
Ciobanu Sergiu 



APPROVED

At the meeting of the Department of odontology, periodontology and oral pathology

Minutes nr. 5 of 08.12.2017

Chief of department, PhD, DMD, associate professor
Ciobanu Sergiu 

CURRICULUM

DISCIPLINE: **Applicative periodontology**

Integrated studies

COURSE TYPE: **Optional discipline**

Chișinău, 2017



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I. PRELIMINARIES

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

Periodontology is a very important compartment in dentistry.

Students instruction to this compartment of dentistry is performed with familiarization and their instruction with the specific of conservative periodontology, arrangement and endowment of a periodontal 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 oriented for the development of clinical thinking of students with the purpose to establish a diagnosis and treatment plan in periodontal diseases. A special attention is paid to prevention, prophylaxis and dispensarization and monitoring patients with periodontal disease. Doctor attitude in periodontal office, getting out from asepsys principles, antisepsys and ergonomics, history collection, in base of clinical and paraclinical examination and setting diagnosis represents one of the development base of feature profile specialists.

Curriculum mission (purpose) in profesional formation

Periodontology has the purpose the integration of accumulated knowledges of the future periodontologists for the purpose of insurance an efficient dentistry assistance, harmless at the periodontal apparatus level. Respecting the primary, secondary and tertiary prophylaxis principles, clinical and paraclinical examination methods described whithin the discipline maintain to develop abilities, clinical thinking of students oriented for accumulation skills in determination optimal methods of prophylaxy, diagnosis and treatment of patients with periodontal disease and to inform 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.

II. DISCIPLINE ADMINISTRATION

Discipline code	S.09.A.117		
Discipline name	Applicative periodontology		
Responsable of discipline	PHD, DMD, Valentina Nicolaiciuc		
Year	V	Semester	IX
Total hour number, including:			30
Course	20	Practical works	-
Practical lessons	-	Individual work	10
Evaluation form	Coloquium	Number of credits	1



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III. OBJECTIVES OF FORMATION WITHIN DISCIPLINE

- *At the level of knowing and thinking:*

Student must know:

- History of periodontology. The study object 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 (cover) periodontium. Morpho-functional aspects of gingival structure components: macromorphologic – gingiva type, supraalveolar ligamentary system and micromorphologic (histologic) – epithelium, corion.
- The structure of supporting periodontium. Morpho-functional aspects of profound periodontium: macro- and micromorphologic of radicular cementum, desmodontium, alveolar bone.
- Epidemiology of periodontal disease. Periodontal management of patients with general diseases/systemic (diabetes mellitus, smoking, pregnancy). The role of bacterial plaque in occurrence and evolution of periodontal disease. The role of favorable local factors and of general factors in occurrence and evolution of periodontal diseases.
- Modern conceptions in pathogenesis, onset and evolution of periodontal disease.
- Basic principles regarding staging the objective clinical examination of health marginal periodontium and in sickness conditions.
- Evaluation of radiologic examination in periodontology (OPG, RVG, CT,CBCT, etc.)
- Modern criterion in diagnosis the gingivitis and marginal periodontitis. Methods for identification the periodontogenic microflora in vision of correct diagnosis and specific antimicrobial treatment.
- Modern aspects in classification of periodontal disease. Particularities of clinical forms of chronic gingivitis of microbial etiology in combination with other local factors and systemic associated.
- Chronic marginal periodontitis mild form, single reversible form resulted from clinical evolution of chronic gingivitis. Morphopathologic and radiologic modifications in chronic marginal periodontitis of mild form.
- Chronic marginal periodontitis, moderate form. Morphopathologic and radiologic modifications.
- Chronic marginal periodontitis, severe form in relation with aggressive forms of periodontitis. Morphopathologic and radiologic modifications.
- Stages and modern techniques of complex periodontal treatment. Prophylaxis through hygienic measure in marginal periodontium inflammation. Its role.
- Elimination the soft and supra- and subgingival deposits (control of bacterial plaque – manual scaling and ultrasonic, „scaling-root planning” SRP). The role of gingivo-periodontal debridement in prevention illness of marginal periodontium to obtain a susceptibility for a regenerative response.



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- Elimination the local risk factors by treating the odontal lesions, iatrogenics, teeth extractions of IIIrd degree mobility to patients with periodontal disease.
- **At the level of application:**
 - ✓ To posses capacities in evaluation the role of periodontology in clinical preparation of student-dentist;
 - ✓ To posses knowledges reffering to biologic structure of cover and supporting periodontium;
 - ✓ To posses knowledges of modern conceptions in pathogenesis and etiology;
 - ✓ To posses knowledges in colecting data about patient (interrogation, investigation, combined);
 - ✓ To know the mechanism of action of antiinflamatory and antimicrobial remedies;
 - ✓ To posses knowledge in differentiation health periodontium from sick periodontium, using objective examination, periodontal indices, radiologic investigation, microbiologic and biochemical.
 - ✓ To know haw to avoid possible causes of complication occurance as the result of local conservative treatment;
 - ✓ To posses capacities to implement the accumulated knowledges in researcher activity;
 - ✓ To be able to use scientific information obtained as the result of stusies using new informational and communication technologies;
 - ✓ To posses knowledge in multimedia technology to receive, to evaluate, to store, to produce, to present and exchange informations.
- **At the level of integration**
 - ✓ To be able to colect the history (subjective and objective examination) of the patient with periodontal diseases;
 - ✓ To be able to fill in medical carf and informed agreement of patient with periodontal diseases;
 - ✓ To be able to perform clinical exmination, periodontal indices, paraclinic examination depending on case to establish a correct diagnosis;
 - ✓ To be able to describe the stages of local and general conservative treatment;
 - ✓ To know the doctor's conduct in stages of conservative treatment.

IV. CONDITIONINGS AND PRIOR REQUIREMENTS

Knowing and respecting ethic-moral and prophesional norms. Knowing the purpose and periodontology tasks. Knowing necessary documents in periodontology office (medical card, registre of patient evidence, registre of evidence and control of sterilization). Knowing the collection of history (clinical and paraclinical examination) of patient with periodontal disease. Knowing methods of hygiene and prophylaxis.

V. THEMATICS AND INDICATIVE DISTRIBUTION OF HOURS

Order Nr.	THEME	Number of hours			
		Lectures	Practical lessons	Practical work	Individual
1.	Familiarity the students with department composition. Introduction in periodontology. Periodontology purpose. Requirements to arrange and organize the office of	3			1



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

VI. REFERENCE OBJECTIVES AND UNITS OF CONTENT

Objectives	Units of content
Familiarity the students with department composition. Organization of periodontal office.	
<ul style="list-style-type: none"> ✓ To know the role of a periodontologist; ✓ To know the definition of periodontology; ✓ To know the history of periodontology; ✓ To know requirements for equipment and fitting out the office of periodontology; ✓ To know the stomatological medical documentation in periodontology office. 	<p>The role of profession of periodontologist. The anatomical territory of periodontal apparatus. The history of periodontology. Requirements for arrangement and organization the office. The rules of hygiene, ethics and deontology. Exterior aspect</p> <p>Regulile de igienă, etică și deontologie. Aspectu of doctor in medical institution. Dental medical documentation in periodontal office.</p>
Primary consultation of specialty and preventive oncology in periodontology. Clinical periodontal examination and the indices of gingival-periodontal illness.	
<ul style="list-style-type: none"> ✓ To know what is and what does include primary consultation on speciality; ✓ 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 obtained data from clinic examination and periodontometry in periodontal chat; 	<p>The essential purpose of a primary consultation. The objectives of primary consultation in periodontology.</p> <p>Deontologic and of medical ethics conditions in patient examination.</p> <p>The essential purpose in clinical examination. Stages of clinical examination of the patients with periodontal diseases.</p> <p>The purpose and what data does periodontometry offer us.</p> <p>Patient motivation to the treatment with periodontal</p>



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Objectives	Units of content
<ul style="list-style-type: none"> ✓ To be able to determine indices of gingivo-periodontal illness (OHI); index of gingival inflammation Loe and Silness; index of papillary and sulcular bleeding Bleeding index. 	chat help. Evaluation of OHI indices; Loe and Silness and indices of papillary and sulcular bleeding – Bleeding Index.
Evaluation of complementary exam in marginal periodontium diseases (microbiological, immunological, biochemical, radiological and imaging exam). Biopsy.	
<ul style="list-style-type: none"> ✓ To understand the importance of paraclinical exploration in diagnosis determination for the patient; ✓ To know types of laboratory paraclinical and those radiological investigations, to be able to interpret the obtained data after the investigation. ✓ To know indications for imaging investigation in periodontology. 	Paraclinical exploration used in periodontology. The purpose and role of laboratory paraclinical and radiological investigation. 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 the soft and hard supra- and subgingival deposits: manual scaling, scaling with ultrasonic and planning.	
<ul style="list-style-type: none"> ✓ To know what measures does the primary and secondary prophylaxis include; ✓ To know the tools and methods for elimination the soft and hard deposits, supra- and subgingival. 	Comprising measures of primary and secondary prophylaxis. Methods, tools and indications for methods in elimination the soft and hard supra- and subgingival deposits.
Biostimulation, antimicrobial and antiinflammatory therapy.	
<ul style="list-style-type: none"> ✓ To know what is the biostimulation, therapeutic modalities of biostimulation, remedies and vaccines. ✓ To know the methods of determination the microbial microflora, microbial and antiinflammatory remedies used in periodontology. 	Indications for biostimulation therapy and vaccines. Indications for microbial sampling. Methods. Techniques.

VII. PROFESSIONAL SPECIFIC (ST) AND TRANSVERSAL COMPETENCES (TC) AND FINAL STUDIES

Professional competences (specific) (SC)

PC1: Knowing theoretical bases related to periodontal apparatus, history (anamnesis) collection, patients examination with periodontal diseases. To be able to analyse and to interpret the obtained data as the result of clinical and paraclinical examination in periodontal office. Knowing the rights and obligations of a periodontologist doctor.

PC2: Knowledge of plaque, tartar and blood index hemorag.

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

PC4: Filling in patients medical cards with periodontal diseases. Filling in the documentation in the periodontal office. Elaboration of algorithm for collection the working data with patients in the office.

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

PC6: Demonstration and application of accumulated knowledges in clinical and paraclinical evaluation of patient. Selection and argumentation the communication techniques, data collection, patient preparation for treatment. Promoting the principles of tolerance and compassion and



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compassion towards the patient.

Transversal competences (TC)

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

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

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

Study finals:

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

- To know the basic principles, work organization and healthcare in office/department of periodontology;
- To know the role and functions of periodontologist;
- To promote health style, to give advices in taking care of periodontal apparatus through hygiene; to be able to hold speeches, reports, presentations, articles in journals on speciality.



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VIII. INDIVIDUAL WORK OF STUDENT

Nr.	Predicted product	Implementation strategies	Evaluation criterion	Deadline
1.	Working with information sources	Reading the lecture or material from the book on that theme. Knowing and selection the additional informatonal sources on theme. Reading the text with attention and describtion the essential content. Formulation the generalizations and conclusions reffering to theme /subject importance.	The ability to extract the essentials. Interpretative skills. The ability to analyze and communicate the material accumulated on its own.	During the course
2.	Solving the problems of the situation	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 problem solving and clinical case, the ability to formulate and interpret clinical and paraclinical data. Ability to analyze selected information from national and international professional websites.	During the course
3.	<p>Evaluation of perception (basic knowledge) in clinical and paraclinical examination of patients.</p> <p>Each student will complete the patient's medical card, organize the stages of the clinical examination and collect the anamnesis.</p> <p>Establish indications for paraclinical investigations, argumentation their need.</p>			
3.1.	Data recording and patient history	Work with the medical card and systematization the stages of collection the anamnesis and clinical examination of self-esteem.	Assess the correctness and succession of the performed analysis.	During the course
3.2.	Appreciation the indications for radiographic examination.	The student should study the particularities of the radiographic examination and argument for the need to indicate each type of X-ray examination.	Assessing the accuracy of the information described by the student.	During the course
3.5.	Preparing for a colloquium	Students will prepare information on the selected theme from the Thematic Plan with Schematic and Graphic Plays in Power Point	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

✓ **Teaching and learning methods used.**

For the applied periodontics discipline, course hours (20) and individual work (10) are provided. Courses are held in the semester IX by the course holder. As a teaching aid, the specialized manuals available in the university library, the methodological recommendations of the department's staff, tables, schemes, electronic information sources, national and international professional websites, etc. are available. Students receive individual work for preparation, being later discussed 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 teach the theoretical material after the courses read and the books available at the specialized library.

✓ **Applied didactic strategies / technologies** (*specific for the discipline*)

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

✓ **Evaluation methods** (*including the indication of how final note is calculated*)

Final: The course ends with a colloquium.

X. RECOMMENDED BIBLIOGRAPHY:

A. *Obligatory:*

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. *Suplimentary:*

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

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