



Syllabus for academic year: 2021/2022													
Training cycle: 2018/2023													
Description of the course													
Course	Periodontology							Group of detailed education results					
								Group code: F	Group name: Interventional clinical sciences				
Faculty	Faculty of Dentistry												
Major	Dentistry												
Level of studies	Uniform magister studies												
Form of studies	full-time												
Year of studies	IV						Semester:	summer					
Type of course	obligatory												
Language of study	English												
Number of hours													
Form of education													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
<b>Summer semester:</b>													
Department of Periodontology													
Direct (contact) education		10			45						15		
Distance learning	5												
<b>Educational objectives:</b> C1. Knowledge of periodontal diseases pathogenesis and differential clinical diagnosis for periodontal diseases and peri-implant pathology C2. Knowledge of two-way relationships between periodontitis and selected general diseases C3. Ability to conduct of clinical and epidemiological periodontal examination C4. Knowledge and ability to perform in clinical conditions principles of non-surgical periodontal treatment and demonstrate skills in using the most effective forms of this treatment C5. Ability to critically analyze knowledge in accordance with evidence based periodontology													
Education result for course in relation to verification methods of the intended education result and the type													



of class:				
Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>	
F. W3	Knows the bacterial and viral flora of periodontal biofilm and its importance	Obtaining formation marks at every classes and passing final test	L, SE	
F. W9	Knows periodontal diagnosis and treatment methods		SE	
F. W12	Knows causes of complications of stomatognathic system diseases and the principles of handling such complications		SE	
F. W19	Understands the pathomechanism of the impact of periodontitis on the overall health		L	
F. W20	Knows and understands the pathomechanism of the effects of general diseases or applied therapies on the periodontal status		L	
F. W21	Knows principles of periodontal prevention		SE	
F. U1	Takes medical history from the patient or his/her family	Passing the required number of clinical procedures	PCP, VP	
F. U2	Performs clinical periodontal examination		PCP, VP	
F. U3	Explains to the patient the nature of their periodontal disease, determine a method of treatment that is confirmed by the patient's informed consent and make a prognosis		PCP, VP	
F. U6	Interprets the results of additional examinations and consultations		PCP, VP	
F. U7	Applies indications and contraindications for performing specific periodontal procedures		PCP, VP	
F. U8	Provides periodontal treatment for acute and chronic inflammatory processes		PCP, VP	
F. U10	Prescribes medicines from the periodontal indications, taking into account their interaction and side effects		PCP, VP	
F. U17	Leads periodontal diagnostic and treats periodontal diseases to a basic extent		PCP, VP	
* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning				
<b>Student's amount of work (balance of ECTS points):</b>				
<b>Student's workload</b> (class participation, activity, preparation, etc.)		<b>Student Workload</b>		
1. Number of hours of direct contact:		70		
2. Number of hours of distance learning:		5		
3. Number of hours of student's own work:		15		
4. Number of hours of directed self-study				
Total student's workload		90		

ECTS points for course	3
Content of classes:	
Lectures (2 x 2 hours, 1 x 1 hour)	
<ol style="list-style-type: none"> <li>1. Pathogenesis of periodontal diseases. Dental biofilms and periodontal infections. Immunoregulation in periodontitis. Genetic susceptibility to periodontitis.</li> <li>2. Assessment of relationships between periodontitis and the prevalence and course of selected systemic diseases.</li> <li>3. Peri-implant pathology- risk factors, contemporary classification, non-surgical treatment.</li> </ol>	
Seminars (5 x 2 hours)	
<ol style="list-style-type: none"> <li>1. Clinical and epidemiological periodontal examination. Epidemiology of periodontal diseases. Risk factors for periodontitis and periimplantitis.</li> <li>2. Contemporary classification of periodontal and periimplant diseases.</li> <li>3. Additional examinations in periodontology.</li> <li>4. Treatment planning protocols of generally healthy patients with periodontal diseases.</li> <li>5. Treatment planning protocols of periodontal patients with selected systemic diseases.</li> </ol>	
<b>Practical classes with patients (15 x 3 hours)</b>	
<ol style="list-style-type: none"> <li>1. Anatomy of marginal periodontal tissues at teeth and implants. The role and function of the periodontal tissues in stomatognathic system. Regulation of tissue turnover in the periodontium. Periodontal prevention (mechanical and chemical supragingival plaque control) with particular emphasis on individualisation methods of dental biofilm control (replay of the II and III year).</li> <li>2. Clinical periodontal examination. Clinical and epidemiological indicators. Evaluation of the oral hygiene status, the intensity and extent of gingival inflammation, pocket depth and probing attachment level, furcation involvement, examinations of mucogingival complex, assessment of tooth mobility. Protocol of the periodontal examination. Assessment of multifactorial periodontal risk (PRA). Periodontal chart</li> <li>3. Hands, ultrasonic and sonic instruments used for non-surgical periodontal treatment, principles of ergonomic work with scalers and curettes. Types of ultrasonic scalers, working tips for subgingival scaling/root planning, advantages and disadvantages of ultrasonic scalers vs. hand curettes. Supragingival and subgingival air polishing, types of powders (replay of the III year).</li> <li>4. Etiologic determinants of periodontal disease. Dental biofilms and dental calculus. The role of host factors in periodontal disease. Mechanisms of destruction of periodontal tissues. Hypotheses of periodontitis pathogenesis. Genetic susceptibility to periodontal diseases. Risk factors for periodontitis. Etiology and risk factors peri-implant pathology.</li> <li>5. Contemporary classification of periodontal and peri-implant diseases. Definitions of periodontal health, gingival diseases and periodontitis. Clinical differentiation of gingivitis. Staging and grading of periodontitis. Acute periodontal lesions. The influence of general diseases on the periodontal attachment apparatus. Clinical features and diagnosis of peri-implant pathology.</li> <li>6. Radiological diagnosis of periodontitis and peri-implantitis with CBCT images. Microbiological, immunological and genetic tests in diagnosis of periodontitis. Examination of gingival fluid, saliva, gingival tissues and blood serum- what we are looking for in the diagnosis of periodontitis?</li> <li>7. Methodology for assessing the relationship between the risk factor and disease. Types of studies in periodontal medicine. The relationship between periodontal inflammation and cardiovascular disease, diabetes mellitus, adverse pregnancy outcomes and other general diseases. Periodontology based on evidence.</li> <li>8. The use of antiseptics in the control of dental biofilm. Treatment of gingivitis. The methodology of supragingival treatment of periodontitis.</li> <li>9. The methodology of classical non-surgical treatment of periodontitis- definitions and goals of subgingival scaling, root-planning (SRP) and closed curettage. Clinical, histopathologic and microbiologic outcomes following SRP. Possibilities and limitations of non-surgical periodontal</li> </ol>	

treatment.

10. Alternative protocols of non-surgical periodontal treatment: full mouth disinfection, local administration of antimicrobial agents, modulation of host response, subgingival air polishing, Vector system. Conservative treatment of periimplantitis, cumulative interceptive supportive therapy- CIST.
11. Photodynamic therapy in the treatment of periodontitis. Er:YAG, diode and Nd:YAG lasers in non-surgical therapy of periodontitis. Laser assisted new attachment procedure- LANAP. Ability to critically evaluate novelties in periodontal treatment.
12. Systemic antibiotics in therapy of periodontitis- indications and contraindications, principles of antibiotics use in periodontitis, specific characteristics of the periodontal infections, timing of systemic antibiotic corrective phase of periodontitis treatment.
13. Management of acute periodontal lesions: treatment of necrotizing periodontal disease, herpetic gingivostomatitis, abscesses in the periodontium and endo-perio lesions.
14. Maintenance phase in the complex treatment of periodontitis.
15. Final test

**Basic literature:**

- 1.H-P Mueller: Periodontology. The Essentials. 2 edition. Georg Thieme Verlag, 2016.
- 2.AAP and EFP materials regarding new classification for periodontal and peri-implant diseases from 2017 year.

**Additional literature and other materials:**

Clinical periodontology and implant dentistry. 6 edition. Wiley Blackwell 2015.

**Preliminary conditions:** obtaining credits in promotion of oral cavity health (second year) and preclinical periodontology (third year).

**Conditions to receive credit for the course:** obtaining a minimum average of 3.0 from corrective marks for the effects of knowledge during verbal answers during selected interactive seminars and every all classes, passing the knowledge effects through a final test prepared by an assistant with whom the student did not have classes (61% pass threshold), skill effects will be credited in performing all required procedures in a clinical condition. In the event of an appropriate Rector's order, the final test may be carried out remotely.

Department in charge of the course:	Department of Periodontology
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**List of persons conducting specific classes:**

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Aleksandra Sender-	MDM	Medical	Dentist, periodontist	L, SE, PCP

Janeczek		sciences		
Jacek Zborowski	MDM	Medical science	Dentist, periodontist	L. SE, PCP
Joanna Toczewska	MDM	Medical sciences	Dentist	PCP
Aneta Zakrzewska	BDS		Dentist	PCP, VP
Barbara Paśnik-Chwalik	BDS		Dentist	PCP, VP
Katarzyna Dębska-Łasut	BDS		Dentist	PCP, VP

Date of Syllabus development

05.07.2021

Syllabus developed by

Tomasz Konopka

Uniwersytet Medyczny we Wrocławiu  
 WYDZIAŁ  
 LEKARSKO-STOMATOLOGICZNY  
 DZIEKAN  
 prof. dr hab. Marek Mikulewicz

Dean's signature

Signature of Head of teaching unit(s)

Uniwersytet Medyczny we Wrocławiu  
 KATEDRA I ZAKŁAD  
 PERIODONTOLOGII  
 kierownik

prof. dr hab. Tomasz Konopka