



Syllabus for 2022/2023 academic year Learning cycle: 2019/2020- 2023/2024			
Description of the course			
Course	(in Polish) <b>Periodontologia</b>	Group of specific learning outcomes	
	(in English) <b>Periodontology</b>	Class group (group code) F	Group name: Specialized clinical sciences (interventional)
Faculty	Faculty of Dentistry		
Major	dentistry		
Level of studies	uniform Master's degree studies		
Mode of study	full-time		
Year of studies	4	Semester	summer
Type of course:	mandatory		
Language of instruction	English		

Number of hours													
Course delivery method													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Non-clinical Classes (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)	Guided Self-directed Learning (GSL)	E-learning (EL)
<b>Summer semester:</b>													
Department of Periodontology													
Indirect learning		10			45								
Remote learning	5												

**Educational objectives:**

- 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

**Learning outcomes for the course in relation to methods of verifying the intended learning outcomes and the course delivery method:**

Number of the specific learning outcome	Student who completes the module/course knows/is able to	Methods of verification of intended learning outcomes	Form of teaching <i>* enter the symbol</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	CC
F. U2	Performs clinical periodontal examination		CC
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		CC
F. U6	Interprets the results of additional examinations and consultations		CC
F. U7	Applies indications and contraindications for performing specific periodontal procedures		CC
F. U8	Provides periodontal treatment for acute and chronic inflammatory processes		CC
F. U10	Prescribes medicines from the periodontal indications, taking into account their interaction and side effects		CC,
F. U17	Leads periodontal diagnostic and treats periodontal diseases to a basic extent		CC

*\* L - Lecture; SE - Seminar; AC - Auditorium Classes; MC- Major Non-clinical Classes; CC - Clinical Classes; LC - Laboratory Classes; CS - Classes in Simulated Conditions; PP - Practical Classes with Patient; FLC - Foreign Language Course ; PE - Physical Education; VP - Vocational Practice; GSL - Guided Self-directed learning; EL - E-Learning*

**Student's amount of work (balance of ECTS points):**

<b>Student's workload</b> (class participation, activity, preparation etc.)	<b>Student's hourly workload</b>
1. Hours of direct learning:	55
2. Hours of remote learning:	5
3. Hours of student's individual work:	30
4. Hours of self-directed learning:	0
Summary of the student's workload:	90
<b>Module/course ECTS value:</b>	<b>3</b>

**Course content:**

**Lectures (2 x 2 hours, 1 x 1 hour)**

1. Pathogenesis of periodontal diseases. Dental biofilms and periodontal infections. Immunoregulation in periodontitis. Genetic susceptibility to periodontitis.
2. Assessment of relationships between periodontitis and the prevalence and course of selected systemic diseases.
3. Peri-implant pathology- risk factors, contemporary classification, non-surgical treatment.

**Seminars (5 x 2 hours)**

1. Clinical and epidemiological periodontal examination. Epidemiology of periodontal diseases. Risk factors for periodontitis and periimplantitis.
2. Contemporary classification of periodontal and periimplant diseases.
3. Additional examinations in periodontology.
4. Treatment planning protocols of generally healthy patients with periodontal diseases.
5. Treatment planning protocols of periodontal patients with selected systemic diseases.

**Practical classes (11 x 4 hours, 1 x 1 hour)**

1. Anatomy of marginal periodontal tissues. The mucosa at 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).
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. 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 RSD, advantages and disadvantages of ultrasonic scalers vs. hand curettes. Supragingival and subgingival air polishing, types of powders (replay of the III year).
3. 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.
4. 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.
5. 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?

6. 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.
7. The use of antiseptics in the control of dental biofilm. Active agents for chemical biofilm control. Clinical indications for chemical plaque control Treatment of gingivitis. Supragingival treatment of periodontitis. 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 and RSD. Possibilities and limitations of non-surgical periodontal treatment.
8. 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. 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.
9. 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. Contemporary recommendations on the effectiveness of treatment of stage I and II periodontitis
10. Management of acute periodontal lesions: treatment of necrotizing periodontal diseases, herpetic gingivostomatitis, periodontal abscesses and endo-perio lesions.
11. Supportive periodontal care.
12. Final test

**Mandatory 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 and treatment of stage I and II periodontitis from 2020 year.

**Supplementary literature and other aids:**

1. NP. Lang, T. Berglundh, WV. Giannobile, M. Sanz: Clinical periodontology and implant dentistry. 7 edition. Wiley Blackwell, Oxford, 2021.
2. George MD., Donley TG., Preshaw PM.: Ultrasonic periodontal debridement: theory and technique. First ed., John Wiley & Sons, New York, 2014.

**Prerequisites/preliminary requirements:** obtaining credits in promotion of oral cavity health (second year) and preclinical periodontology (third year).

**Rules for awarding component grades in the course during the semester:**

**Requirements to pass the course:**

Course credit evaluation criteria (no grade)

	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.
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Syllabus preparation date
11.07.2022