



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Periodontal diseases	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medicine and Dentistry
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year 3, semester v and VI
ECTS credits (incl. semester breakdown)	2 ECTS (semester VI)
Type/s of training	lectures 5h+seminars 5h+ practical 25h= 35h
Form of assessment*	<input checked="" type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input checked="" type="checkbox"/> test</li> <li><input type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul> <input type="checkbox"/> non-graded assessment <ul style="list-style-type: none"> <li><input type="checkbox"/> final examination <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input type="checkbox"/> test</li> <li><input type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul> </li> </ul>
Head of the Department/ Clinic, Unit	dr hab. n. med. Monika Machoy-Rakoczy
Tutor responsible for the module	dr hab. n. med. Małgorzata Mazurek-Mochol, prof. PUM
Department's/ Clinic's/ Unit's website	<a href="https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-periodontologii">https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-periodontologii</a>
Language	English

\* replace  into  where applicable

**Detailed information**

<b>Module objectives</b>		<p>The main aim of Periodontal Diseases is to prepare a student to work with a patient in the prevention and basic treatment of periodontal disease. Specific learning objectives of the module include:</p> <ul style="list-style-type: none"> <li>the acquisition of research skills in particular oral periodontal assessment of oral hygiene and periodontal tissue condition documented by selected indicators</li> <li>gain knowledge on the etiopathogenesis of periodontal disease, in particular the importance of bacterial biofilm</li> <li>familiarize students with instruments for removing dental deposits and instruments for the control of oral hygiene</li> <li>gain practical skills in scaling and performing hygienic treatments in prevention and primary treatment of periodontitis</li> <li>acquire practical skills in the diagnosis differentiation, and comprehensive treatment of periodontal diseases</li> <li>learn practical cooperation with patients with periodontal disease and the use of basic periodontal treatments in prevention, treatment and preservation of treatment effects</li> <li>integrate knowledge of basic disciplines of the impact of periodontal disease on the general health of the patient.</li> </ul>
Prerequisite /essential requirements	Knowledge	<p>Knowledge of the:</p> <ul style="list-style-type: none"> <li>anatomy and physiology of the oral cavity with a special focus on periodontal structure and characteristics of the oral mucosa</li> <li>etiopathogenesis, diagnosis and differentiation of periodontal diseases</li> <li>non-surgical treatment of periodontal diseases</li> </ul>
	Skills	An ability to select the basic dental instruments, ability to work with the active assistance and the ability to actively assist.
	Competences	A habit of self-study, the use of different sources of knowledge, including scientific literature, the Internet. Ability to work in a team.

<b>Description of the learning outcomes for the subject /module</b>			
<b>No. of learning outcome</b>	<b>Student, who has passed the (subject) knows /is able to /can:</b>	<b>SYMBOL (referring the standards)</b>	<b>Method of verification of learning outcomes*</b>
W01	knows and understands the principles of preventive and therapeutic management in the masticatory system diseases at various stages of development;	F.W2.	Continuous evaluation during exercises.
W02	knows and understands symptoms, course and treatment methods of specified diseases of oral cavity, head and neck with regard to age groups	F.W4	Continuous evaluation during exercises and semester test
W03	knows and understands diagnostics and treatment of periodontal and oral mucosa diseases	F.W9	Continuous evaluation during exercises and semester test
W04	knows and understands causes of complications of stomatognathic system diseases and the rules	F.W12	Continuous evaluation during

	of their management		exercises and semester test
W05	knows and understands rules of radiological diagnostics	F.W18	Continuous evaluation during exercises.
W06	knows and understands the basic clinical procedures of periodontal prophylaxis	C.W32.	Continuous evaluation during exercises.
U01	is able to interview patient or his/her family	F.U1	Continuous evaluation during exercises.
U02	is able to carry out dental examination of patient	F.U2	Continuous evaluation during exercises. Checking of the practical skills.
U03	is able to provide patient with explanation about nature of ailment, establish treatment confirmed by informed consent of the patient as well as establish prognosis	F.U3	Continuous evaluation during exercises.
U04	is able to provide patient or his/her family with the information about unfavorable prognosis	F.U4	Continuous evaluation during exercises.
U05	is able to sample and protect material for diagnostic tests, including cytology	F.U5	Continuous evaluation during exercises. Checking of the practical skills.
U06	is able to interpret results of auxiliary diagnostics and consultations	F.U6	Continuous evaluation during exercises.
U07	is able to determine indications and contraindications to a specified dental procedure	F.U7	Continuous evaluation during exercises. Checking of the practical skills.
U08	is able to treat tooth-derived and non-tooth-derived acute and chronic inflammation of soft tissue, periodontium and jaw bones	F.U8	Continuous evaluation during exercises. Checking of the practical skills.
U09	is able to manage general and local complications during and after dental procedures	F.U9	Continuous evaluation during exercises and semester test
U10	is able to prescribe medicines taking into account their interactions and side effects	F.U10	Continuous evaluation during exercises. Checking of the practical skills and on the

			semester test
U11	is able to keep current patient records, refer patient to general and specialist dental and medical examination or treatment	F.U11	Continuous evaluation during exercises. Checking of the practical skills.
U12	is able to formulate research problems in dentistry	F.U12	Continuous evaluation during exercises. Checking of the practical skills.
U13	is able to present selected medical problems in oral or written form relevantly to recipient standards	F.U13	Continuous evaluation during exercises. Checking of the practical skills.
U14	is able to establish treatment for stomatognathic system tissues diseases	F.U15	Continuous evaluation during exercises. Checking of the practical skills.
U15	is able to diagnoses and perform basic treatment of periodontal diseases	F.U17	Continuous evaluation during exercises. Checking of the practical skills.
U16	is able to plan the basic stages of preventive care for patients with periodontal needs	C.U15.	Continuous evaluation during exercises. Checking of the practical skills.
K01	is ready to be guided by the patient wellbeing	K.2.	Continuous evaluation during exercises.
K02	is ready to respect physician-patient privilege and patient's rights	K.3.	Continuous evaluation during exercises.
K03	is ready to take activities towards patient on the basis of ethical principles with awareness of social conditions and disease restrictions	K.4.	Continuous evaluation during exercises.
K04	is ready to propagate health-promoting behavior	K.6.	Continuous evaluation during exercises.

Table presenting LEARNING OUTCOMES in relation to the form of classes								
No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical classes	Clinical classes	Simulations	E-learning	Other...
1.	F.W2.	X		X	X			
2.	F.W4.	X			X			
3.	F.W9.	X		X	X			
4.	F.W12.	X			X			
5.	F.W18.		X		X			
6.	C.W32.				X			
7.	F.U1.				X			
8.	F.U2.				X			
9.	F.U3.				X			
10.	F.U4.				X			
11.	F.U5.				X			
12.	F.U6.			X	X			
13.	F.U7.		X	X				
14.	F.U8.				X			
15.	F.U9.				X			
16.	F.U10.				X			
17.	F.U11.			X	X			
18.	F.U12.				X			
19.	F.U13.				X			
20.	F.U15.		X		X			
21.	F.U17.		X	X	X			
22.	C.U15.				X			
23.	K.2.				X			
24.	K.3.				X			
25.	K.4.				X			
26.	K.6.				X			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
<b>Summer semester</b>			
<b>Lectures</b>			
TK01	Healthy periodontium and gingival diseases on healthy or reduced periodontium	1	W02, W06
TK02	Classification of periodontitis. Staging and grading of periodontitis.	1	W02, W04, W06
TK03	Comprehensive treatment of gingivitis and periodontitis- part I	1	W04
TK04	Comprehensive treatment of gingivitis	1	W04

	and periodontitis- part II		
TK05	Final test	1	W01-W04
<b>Seminars</b>			
TK01	Patomechanism of changes in periodontal tissues and progression of periodontopathy.	1	W02
TK02	Acute conditions of periodontium.	1	W02
TK03	Symptoms of systemic diseases and conditions affecting the periodontal structures.	1	W01
TK04	Radiological visualization of normal periodontium and pathological changes in periodontium.	1	W03, W05
TK05	Other conditions affecting the periodontium. Teeth mobility. Determination of teeth splinting indicators.	1	W04
<b>Practical classes</b>			
TK06	Periodontal patient examination card. Introduction to periodontal instruments.	1	U01,U07,U11,U14, U15, U16
TK07	Preventive and treatment plan.	1	U03,U06,U08,U09, U10, U12, U14, U16
TK08	Periodontal examination.	1	U02, U15
TK09	Clinical exercises with patients	22	U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, K01, K02, K03, K04

### Booklist

#### Obligatory literature:

##### Articles about new classification of periodontal diseases

1. Caton J et al. A new classification scheme for periodontal and peri-implant diseases and conditions- introduction and key changes from the 1999 classification. J Periodontol 2018; 89 (Suppl 1):S1-S8.
2. Chapple ILC et al. Periodontal health and gingival diseases and conditions on an intact and a reduced periodontium: Consensus report of workgroup 1 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. J Periodontol. 2018; 89(Suppl 1): S74-S84.
3. Murakami S et al. Dental plaque-induced gingival conditions. J Periodontol. 2018; 89(Suppl 1):S17-S27.
4. Holmstrup P et al. Non-plaque-induced gingival diseases. J Periodontol.2018;89(Suppl 1): S28-S45.
5. Lang NP et al. Periodontal health. J Periodontol.2018; 89(Suppl 1): S9-S16.
6. Papanou PN et al. Periodontitis: Consensus report of Workgroup 2 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. J Periodontol.2018;89 (Suppl 1): S173-S182.
7. Herrera D et al. Acute periodontal lesions (periodontal abscesses and necrotizing periodontal diseases) and endo-periodontal lesions. J Periodontol. 2018 (Suppl 1): S85-S102.
8. Tonetti MS et al. Staging and grading of periodontitis: Framework and proposal of a new classification and case definition. J Periodontol. 2018;89 (Suppl 1): S159-S172.
9. Jepsen S et al. Periodontal manifestations of systemic diseases and developmental and acquired conditions: Consensus report of workgroup 3 of the 2017 World Workshop on the Classification

- of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol.*2018; 89 (Suppl 1): S237-S248.
10. Albandar JM et al. Manifestations of systemic diseases and conditions that affect the periodontal attachment apparatus: Case definitions and diagnostic considerations. *J Periodontol.*2018; 89 (Suppl 1):S183-S203.
  11. Berglundh T et al. Peri-implant diseases and conditions: Consensus report of workgroup 4 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol.*2018; 89 (Suppl 1): S313-S318.
  12. Renvert S et al. Peri-implant health, peri-implant mucositis and peri-implantitis: Case definitions and diagnostic considerations. *J Periodontol.*2018;89 (Suppl1):S304-S312.
  13. Cortellini P et al. Mucogingival conditions in the natural dentition: Narrative review, case definitions, and diagnostic considerations. *J Periodontol.* 2018;89 (Suppl 1): S204-S213.
  14. Fan J et al. Occlusal trauma and excessive occlusal forces: Narrative review, case definitions, and diagnostic considerations. *J Periodontol.* 2018;89 (Suppl 1): S214-S222.
  15. Ercoli C et al. Dental prostheses and tooth-related factors. *J Periodontol.*2018;89 (Suppl 1): S223-S236.

#### Articles about treatment of periodontitis

1. Sanz M. et al. Treatment of stage I–III periodontitis—The EFP S3 level clinical practice guideline. *Journal of Clinical Periodontology* 2020, 48, 1, 164-165. *J Clin Periodontol* 2020,47,22:4-60.
2. Tonetti M., Sanz M. Implementation of the new classification of periodontal diseases: Decision-making algorithms for clinical practice and education. *J Clin Periodontol.* 2019 Apr;46(4):398-405.

#### Supplementary literature:

Periodontology- The Essentials. Hans-Peter Mueller, Thieme 2015.

Periodontology: Color Atlas of Dental Medicine by Herbert F. Wolf, Edith M. Rateitschak-Pluss Klaus H. Rateitschak.

Clinical Periodontology and Implant Dentistry. Edited by J. Lindhe, Niklaus P.Lang. Chichester : Wiley Blackwell, 2015.

Carranza's Clinical Periodontology by Michael G. Newman, Henry Takei, Fermin A.Carranza, Perry R. Klokkevold

#### Standards of procedures required to obtain credit:

1. Patient Examination Extra- and Intraoral – 1 point
2. Evaluation of indicators API, BOP, FMPI – 1 pont
3. Hygiene instruction with brushing instruction – 2 points
4. Supragingival and subgingival scaling – 3 points
5. Root planing – 3 points
6. Sandblasting – 3 points
7. Completing the Periochart – 2 points
8. X-ray analysis with an assistant – 2 points

For procedures 4-7 you must earn a minimum of 26 points per semester:

4. - 3 procedures

5. - 1 procedure

6. - 2 procedures

7. - 4 procedures

For procedures performed during the semester, you must earn 54 points.

<b>Student's workload</b>	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	35
Time spent on preparation to seminars/ practical classes	10
Time spent on reading recommended literature	10
Time spent on writing report/making project	-
Time spent on preparing to colloquium/ entry test	10
Time spent on preparing to exam	-
Other .....	-
Student's workload in total	65
<b>ECTS credits for the subject (in total)</b>	2
<b>Remarks</b>	

\* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedial presentation

other...