



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Periodontal and mucous membrane diseases	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Dentistry
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	year 5 (semester IX and X)
ECTS credits (incl. semester breakdown)	7 ECTS (semester IX-4, semester X-3)
Type/s of training	seminars (8h)/ practical 95h (sem.ix-45h, sem.X-50h)
Form of assessment*	<input type="checkbox"/> graded assessment: <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> <input type="checkbox"/> non-graded assessment <input checked="" type="checkbox"/> final examination <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>
Head of the Department/ Clinic, Unit	dr hab. n. med. Elżbieta Dembowska
Tutor responsible for the module	dr hab. n. med. Małgorzata Mazurek-Mochol
Department's/ Clinic's/ Unit's website	<a href="https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-periodontologii">https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-periodontologii</a>
Language	English

\* replace  into  where applicable

**Detailed information**

<b>Module objectives</b>		<p>The aim of Periodontal and Mucosal Diseases is to:</p> <ul style="list-style-type: none"> <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> <li>• familiarize students with the symptomatology, diagnosis and preventive treatment of selected diseases of oral mucosa, with particular emphasis on changes and precancerous conditions,</li> <li>• acquire the ability to use additional examinations,</li> <li>• acquire skills in treatment of diseases of oral mucosa including pharmacological and physical therapy.</li> </ul>
<b>Prerequisite /essential requirements</b>	<b>Knowledge</b>	<p>Knowledge of:</p> <ul style="list-style-type: none"> <li>• anatomy and physiology of parodontium,</li> <li>• principles of ergonomics and periodontal instrumentation,</li> <li>• types of periodontal diseases, diagnostic criteria and differentiation of periodontal disease,</li> <li>• algorithm of action in individual clinical periodontal disease,</li> <li>• impact of periodontal disease on the general health of the patient,</li> <li>• diagnostics and principles of treatment planning in occlusal trauma, masticatory parafunctions and functional disorders of the temporomandibular joint.</li> <li>• the anatomy and physiology of oral mucosa,</li> <li>• oral microbiology,</li> <li>• rules for collecting biological material for microbiological, cytological and histological examination; the capabilities and the use of immunoassays in the histopathological diagnosis of selected diseases of oral cavity.</li> </ul>
	<b>Skills</b>	<p>Skills of:</p> <ul style="list-style-type: none"> <li>• using the periodontal instruments,</li> <li>• work according to the principles of ergonomics and teamwork including the "four hands" work,</li> <li>• subject survey, determining the health of parodontium and oral mucosa,</li> <li>• prevention and basic treatment of periodontal diseases.</li> </ul> <p>An ability to:</p> <ul style="list-style-type: none"> <li>• diagnose deviations from the physiology of oral cavity,</li> <li>• interpret the results of additional blood tests,</li> <li>• check blood pressure, handling shock and cardiac arrest,</li> <li>• communicate in a professional way with patients of all ages,</li> <li>• manage patient medical records.</li> </ul>
	<b>Competences</b>	<p>A habit of self-education, teamwork, use of all available sources of medical knowledge, respect for professional secrecy, an awareness of the need for cooperation of dentist with doctors of other specialties, cooperation in a team patient-doctor-dental assistant.</p>

<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 occlusion norms in different phases of ontogenesis and deviations from norms	K_F.W01	Continuous evaluation during exercises Checking of the practical skills Exam test
W02	knows and understands mechanism leading to organ and systemic pathology (incl. of infection, auto-immunological diseases and ones caused by immune deficit, metabolic and genetic diseases)	K_F.W02	Continuous evaluation during exercises Checking of the practical skills Exam test
W03	knows rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development	K_F.W03	Continuous evaluation during exercises Checking of the practical skills Exam test
W04	knows viral, bacterial and mycotic flora of oral cavity and importance thereof	K_F.W04	Continuous evaluation during exercises Checking of the practical skills Exam test
W05	knows symptoms, course and procedures for certain diseases of oral cavity , head and neck with regard to age groups	K_F.W05	Continuous evaluation during exercises Checking of the practical skills Exam test
W06	knows rules of administering local anesthesia in area of stomathognathic system	K_F.W06	Continuous evaluation during exercises Checking of the practical skills Exam test
W07	knows principles of conduct of pulp diseases and mineralized tooth tissue and injury of tooth and facial skeleton	K_F.W07	Continuous evaluation during exercises Checking of the practical skills Exam test
W08	knows diagnostics and treatment of parodontium and diseases of oral mucosa	K_F.W11	Continuous evaluation during exercises Checking of the practical skills Test exam

U01	interviews patient or his/her family	K_F.U01	Continuous evaluation during exercises Checking of the practical skills
U02	carries out physical examination of patient	K_F.U02	Continuous evaluation during exercises Checking of the practical skills
U03	provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis	K_F.U03	Continuous evaluation during exercises Checking of the practical skills
U04	provides patient or his/her relatives with bad news about health state	K_F.U04	Continuous evaluation during exercises Checking of the practical skills
U05	samples and protects material for diagnostic examination (incl. of cytology)	K_F.U05	Continuous evaluation during exercises Checking of the practical skills
U06	interprets results of ancillary tests	K_F.U06	Continuous evaluation during exercises Checking of the practical skills
U07	finds indications as to performance of certain dental procedure	K_F.U07	Continuous evaluation during exercises Checking of the practical skills
U08	knows prophylaxis of oral cavity diseases	K_F.U08	Continuous evaluation during exercises Checking of the practical skills Exam test
U09	knows procedures applicable to diseases of stomatognathic system tissues, tooth and jaw bones	K_F.U09	Continuous evaluation during exercises Checking of the practical skills Exam test
U10	treats acute and chronic tooth-related and non-tooth-related inflammation of oral cavity soft tissue, paradontium and jaw bones	K_F.U10	Continuous evaluation during exercises Checking of the practical skills
U11	knows procedures applicable to cases of general and local complications during and after dental treatment	K_F.U11	Continuous evaluation during exercises Checking of the practical skills

			Exam test
U12	prescribes drugs with regard to their interactions and side effects	K_F.U12	Continuous evaluation during exercises Checking of the practical skills
U13	keeps day-to-day patient's records, refers patient to general and special dental and medical examination or treatment	K_F.U13	Continuous evaluation during exercises Checking of the practical skills
U14	presents selected medical issues in written or oral form relevantly to recipient standards	K_F.U15	Continuous evaluation during exercises Checking of the practical skills
U15	establishes treatment in diseases of stomatognathic system tissues	K_F.U18	Continuous evaluation during exercises Checking of the practical skills
U16	diagnoses and treats parodontium disease to basic extent	K_F.U20	Continuous evaluation during exercises Checking of the practical skills
K01	shows habit of self-education and lifelong education	K_K01	Continuous evaluation during exercises Checking of the practical skills
K02	accepts need of standards of conduct and legislation regarding medical practice	K_K02	Continuous evaluation during exercises Checking of the practical skills
K03	can co-operate with team members and care about occupational safety	K_K03	Continuous evaluation during exercises Checking of the practical skills
K04	shows respect to human body	K_K04	Continuous evaluation during exercises Checking of the practical skills
K05	shows respect to patient, social groups and cares for their goodwill and security	K_K05	Continuous evaluation during exercises Checking of the practical skills
K06	understands proper examiner/examined relationship	K_K08	Continuous evaluation during exercises Checking of the practical skills
K07	understands need for keeping professional secrecy and showing respect to patients'	K_K09	Continuous evaluation

	rights		during exercises Checking of the practical skills
--	--------	--	---

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	K_F.W01		x					
2	K_F.W02		x					
3	K_F.W03		x					
4	K_F.W04		x					
5	K_F.W05		x					
6	K_F.W06		x					
7	K_F.W07		x					
8	K_F.W11		x					
9	K_F.U01				x			
10	K_F.U02				x			
11	K_F.U03				x			
12	K_F.U04				x			
13	K_F.U05				x			
14	K_F.U06				x			
15	K_F.U07				x			
16	K_F.U08				x			
17	K_F.U09				x			
18	K_F.U10				x			
19	K_F.U11				x			
20	K_F.U12				x			
21	K_F.U13				x			
22	K_F.U15				x			
23	K_F.U18				x			
24	K_F.U20				x			
25	K_K01				x			
26	K_K02				x			
27	K_K03				x			
28	K_K04				x			
29	K_K05				x			
30	K_K08				x			
31	K_K09				x			

<b>Table presenting TEACHING PROGRAMME</b>			
<b>No. of a teaching programme</b>	<b>Teaching programme</b>	<b>No. of hours</b>	<b>References to learning outcomes</b>
<b>Winter semester</b>			
<b>Seminars</b>			
TK 01	<b>Etiology and etiopathogenesis of periodontal diseases.</b> Dental plaque over-and subgingival, direct and indirect effect, mechanisms of bacteria virulence, marker bacteria. Classification, signs, symptoms and differential diagnosis of gingival and periodontal diseases.	1	W02
TK 02	<b>Non-surgical therapy of periodontal diseases.</b> Plaque and gingival indices (CPITN, API, SBI), instruction of oral hygiene. Professional plaque removal - technics, instruments. Supportive pharmacotherapy. <b>Splinting therapy.</b>	1	W02, W03, W05, W06
TK 03	<b>Surgical therapy of periodontal diseases</b> Recommendations for selected treatments for periodontium: closed curettage, open curettage, flap surgery for epulis. Regenerative treatments for bone pockets (SRT, biomaterials). Treatment of root furcation (regenerative - SRT, resection - radectomy, hemisection), postoperative proceedings.	1	W02, W05, W06
TK 04	<b>Occlusive disorders and rehabilitation of masticatory. Periodontal maintenance therapy in complex therapy of periodontal diseases.</b> Prosthetic, implant and orthodontic treatment in periodontal diseases. Procedure for periimplantitis. Photodisinfection. Laserotherapy.	1	W01, W02, W03, W05, W06, W08
TK05	<b>Oral lesions with blisters and vesicles:</b> herpesvirus infections and autoimmune diseases: pemphigus, pemphigoid, erythema exudative.	1	W02, W03, W05, W06, W08
TK06	<b>Changes in the mouth with white, red and white-red changes:</b> candidosis, atrophic stomatitis, lupus erythematosus, scleroderma, sexually transmitted diseases, diseases caused by papilloma virus (HPV), keratosis disorders: leukoplakia, lichen planus, white sponge nevus, hairy tongue, actinic cheilitis, geographic tongue.	1	W02, W03, W05, W06, W08
TK07	<b>Pre-cancerous conditions</b> (Gwieździński's classification). Preventive oncology. Oral mucositis in the course of chemo- and radiotherapy. Graft versus host disease. Preparation of the dental patient for the treatment of cancer.	1	W02, W03, W07
TK08	<b>Burning mouth syndrome.</b> Principles of diagnosis and treatment. Differential diagnosis with oral candidosis, atrophic stomatitis,	1	W02, W03, W05, W08

	xerostomia, pain syndromes, denture and orthodontic stomatitis and Sjogren's syndrome.		
<b>Practical classes</b>			
TK1	Clinical exercises with patients Admission of patients, examination of the periodontium and oral mucosa condition. Assessment of hygiene indicators, learning about oral hygiene. Establishing a preventive and therapeutic plan. Performing professional hygiene treatments, splinting of teeth.	45	U01, U02, U03, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16, K01, K02, K03, K04, K05, K06, K07
<b>Summer semester</b>			
<b>Practical classes</b>			
TK01	Classification of periodontal and peri-implant diseases 2017.	1	W02, W04, W11,
TK02	Healing of wound in the periodontium. Surgical periodontal treatment. Resection and regenerative surgery.	1	W02, W04
TK03	Surgical possibilities of improving the prosthetic field before prosthetic treatment: surgical lengthening of crowns, methods of preserving the ridge after extraction, reconstruction of soft tissues and bones within the edentulous process.	1	W01, W03, W07
TK04	The specificity of prosthetic treatment of patients with periodontitis - characteristics of fixed and removable restorations.	1	W01, W03, W07
TK05	Algorithms for comprehensive treatment of periodontitis (sequence of proceedings, difficult and questionable cases, decision errors).	1	W03, W05, W06, W07,
TK06	Lesions on the cheek mucosa, mouth-atrium and mouth-floor. Lesions of the gums, toothless alveolar process and palate.	1	W02, W04, W11
TK07	Lesions on the tongue. Lesions on the lips.	1	W02, W04, W11
TK08	Diseases of the salivary glands and associated clinical symptoms in the oral cavity.	1	W02, W04, W11
TK09	Oral changes due to blood diseases. Preparation of a patient for hematopoietic stem cell transplantation. Patient care after transplantation.	1	W02, W04, W07, W11
TK10	Oral changes in children.	1	W01, W02, W04, W11
TK11	The influence of nicotine on periodontium and oral mucosa. Methods of combating nicotine addiction. Minimal anti-smoking intervention.	1	W02
TK12	Antibiotic therapy in dentistry - discussion of the Recommendations of the Polish Dental Society and the National Program for the Protection of Antibiotics Working Group on the use of antibiotics in dentistry.	1	W07, W11



TK13	Admission of patients, examination of the periodontium and oral mucosa condition. Assessment of hygiene indicators, learning about oral hygiene. Establishing a preventive and therapeutic plan. Performing professional hygiene treatments, splinting of teeth.	38	U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16, K01, K02, K03, K04, K05, K06, K07
<b>Booklist</b>			
<b>Obligatory literature</b>			
<b>1. Articles about new classification of periodontal diseases</b>			
<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3. Murakami S et al. Dental plaque-induced gingival conditions. J Periodontol. 2018; 89(Suppl 1):S17-S27.</li> <li>4. Holmstrup P et al. Non-plaque-induced gingival diseases. J Periodontol.2018;89(Suppl 1): S28-S45.</li> <li>5. Lang NP et al. Periodontal health. J Periodontol.2018; 89(Suppl 1): S9-S16.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>15. Ercoli C et al. Dental prostheses and tooth-related factors. J Periodontol.2018;89 (Suppl 1): S223-S236.</li> </ol>			
<b>2. Articles about treatment of periodontitis</b>			
<ol style="list-style-type: none"> <li>1. Sanz M. et al. Treatment of stage I–III periodontitis—The EFP S3 level clinical practice</li> </ol>			

<p>guideline. Journal of Clinical Periodontology 2020, 48, 1, 164-165. J Clin Periodontol 2020,47,22:4-60.</p> <p>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.</p>
<p>3. Clinical Periodontology and Implant Dentistry. Edited by J. Lindhe, Niklaus P.Lang. Chichester : Wiley Blackwell, 2015.</p>
<p>4. Color Atlas of Oral and Maxillofacial Diseases. Brad W. Neville et al. Copyright 2019 by Elsevier Inc.</p>
<p>5. Color atlas of common oral diseases. Robert P. Langlais, Craig S. Miller , Jill S. Nield-Gehrig, 5th ed. Philadelphia: Wolters Kluwer, 2017.</p>
<p>6. Hans-Peter Mueller Periodontology- The Essentials. Thieme; Edycja 2. (2015)</p>
<p><b>Supplementary literature</b></p>
<p>1. Carranza's Clinical Periodontology by Michael G. Newman, Henry Takei, Fermin A. Carranza, Perry R. Klokkevold</p>
<p>2. Periodontology: Color Atlas of Dental Medicine by Herbert F. Wolf, Edith M. Rateitschak-Pluss Klaus H. Rateitschak</p>

<p><b>Standards of procedures required to obtain credit:</b></p>
<ul style="list-style-type: none"> <li>• Carrying out a medical interview with a patient - 5 procedures</li> <li>• Conducting a physical examination of patient - 5 procedures</li> <li>• Interviewing a patient about: <ul style="list-style-type: none"> <li>- the essence of their ailments,</li> <li>- method of treatment,</li> <li>- prognosis,</li> <li>- preventive measures (including minimal anti-smoking intervention),</li> </ul> </li> <li>- informed consent for treatment from a patient - 5 procedures</li> <li>• Referral to additional tests and interpretation of these test results with description in documentation - 3 procedures</li> <li>• Establishing indications for dental procedures: <ul style="list-style-type: none"> <li>- supra and subgingival scaling,</li> <li>- teeth sandblasting,</li> <li>- correction of the frenum attachments,</li> <li>- covering the gum recession,</li> <li>- guided tissue regeneration (GTR),</li> <li>- molar hemisection,</li> <li>- tooth extraction</li> </ul> </li> <li>- 4 procedures</li> <li>• Establishing a written preventive and treatment plan – 3 procedures</li> <li>• Treatment of periodontal diseases - removal of dental plaque, scaling, periodontal debridement - 12 procedures</li> <li>• Prescribing medication with regard to interactions and side effects - 3 procedures</li> <li>• Diagnosis and treatment of mucous membrane diseases (including precancerous conditions) - 5 procedures</li> </ul>

<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	103
Time spent on preparation to seminars/ practical classess	20
Time spent on reading recommended literature	5
Time spent on writing report/making project	
Time spent on preparing to colloqium/ entry test	
Time spent on preparing to exam	15
Other .....	
Student's workload in total	143
<b>ECTS credits for the subject (in total)</b>	<b>7</b>
<b>Remarks</b>	

\* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloqium

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...