



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 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 (14h)/ practical 81h (sem. IX-36h, sem. X- 45h)
Form of assessment*	<input type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input checked="" type="checkbox"/> final examination <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
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 e-mail: malgorzata.mazurek.mochol@pum.edu.pl
Department's/ Clinic's/ Unit's website	Department of Periodontology e-mail: zperio@pum.edu.pl https://www.pum.edu.pl/studenci/informacje_z_jednostek/ws/zaklad_periodontologii/
Language	English

* replace into where applicable

Detailed information

Module objectives	<p>The aim of Periodontal and Mucosal Diseases is to:</p> <ul style="list-style-type: none"> • acquire practical skills in the diagnosis, differentiation, and comprehensive treatment of periodontal diseases, • learn practical cooperation with patients with periodontal disease and the use of basic periodontal treatments in prevention, treatment and preservation of treatment effects, • integrate knowledge of basic disciplines of the impact of periodontal disease on the general health of the patient, • familiarize students with the symptomatology, diagnosis and preventive treatment of selected diseases of oral mucosa, with particular emphasis on changes and precancerous conditions, • acquire the ability to use additional examinations, • acquire skills in treatment of diseases of oral mucosa including pharmacological and physical therapy. 	
Prerequisite /essential requirements	Knowledge	<p>Knowledge of:</p> <ul style="list-style-type: none"> • anatomy and physiology of parodontium, • principles of ergonomics and periodontal instrumentation, • types of periodontal diseases, diagnostic criteria and differentiation of periodontal disease, • algorithm of action in individual clinical periodontal disease, • impact of periodontal disease on the general health of the patient, • diagnostics and principles of treatment planning in occlusal trauma, masticatory parafunctions and functional disorders of the temporomandibular joint. • the anatomy and physiology of oral mucosa, • oral microbiology, • 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.
	Skills	<p>Skills of:</p> <ul style="list-style-type: none"> • using the periodontal instruments, • work according to the principles of ergonomics and teamwork including the "four hands" work, • subject survey, determining the health of parodontium and oral mucosa, • prevention and basic treatment of periodontal diseases. <p>An ability to:</p> <ul style="list-style-type: none"> • diagnose deviations from the physiology of oral cavity, • interpret the results of additional blood tests, • check blood pressure, handling shock and cardiac arrest, • communicate in a professional way with patients of all ages, • manage patient medical records.
	Competences	<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</p>

		patient-doctor-dental assistant.
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Description of the learning outcomes for the subject /module			
No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards)	Method of verification of learning outcomes*
W01	knows occlusion norms in different phases of ontogenesis and deviations from norms	F.W1.	ET, S, PS, W
W02	knows and understands the principles of preventive and therapeutic management in the masticatory system diseases at various stages of development;	F.W2.	ET, S, PS, W
W03	knows and understands viral, bacterial and mycotic flora of oral cavity and importance thereof	F.W3.	ET, S, PS, W
W04	knows and understands symptoms, course and treatment methods of specified diseases of oral cavity, head and neck with regard to age groups	F.W4.	ET, S, PS, W
W05	knows and understands principles of management in the case of pulp diseases and mineralized dental tissues as well as teeth and facial bones trauma	F.W5.	ET, S, PS, W
W06	knows and understands diagnostics and treatment of periodontal and oral mucosa diseases	F.W9.	ET, S, PS, W
U01	is able to interview patient or his/her family	F.U1.	ET, S, PS, W
U02	is able to carry out dental examination of patient	F.U2.	ET, S, PS, W
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.	ET, S, PS, W
U04	is able to provide patient or his/her family with the information about unfavourable prognosis	F.U4.	ET, S, PS, W
U05	is able to sample and protect material for diagnostic tests, including cytology	F.U5.	ET, S, PS, W
U06	is able to interpret results of auxiliary diagnostics and consultations	F.U6.	ET, S, PS, W
U07	is able to determine indications and contraindications to a specified dental procedure	F.U7.	ET, S, PS, W
U08	is able to treat tooth-derived and non-tooth-derived acute and chronic inflammation of soft tissue, periodontium and jaw bones	F.U8.	ET, S, PS, W
U09	is able to manage general and local complications during and after dental procedures	F.U9.	ET, S, PS, W
U10	is able to prescribe medicines taking into account their interactions and side effects	F.U10.	ET, S, PS, W
U11	is able to keep current patient records, refer patient to general and specialist dental and medical examination or treatment	F.U11.	PS, O
U12	is able to present selected medical problems in oral or written form relevantly to recipient standards	F.U13.	PS, O
U13	is able to establish treatment for stomatognathic system tissues diseases	F.U15.	ET, S, PS, W

U14	is able to diagnoses and perform basic treatment of periodontal diseases	F.U17.	ET, S, PS, W
K01	is ready to establish and maintain deep and respectful contact with the patient as well as to show understanding for ideological and cultural differences	K.1.	PS, O
K02	is ready to be guided by the patient wellbeing	K.2.	PS, O
K03	is ready to respect physician-patient privilege and patient's rights	K.3.	PS, O
K04	is ready to take activities towards patient on the basis of ethical principles with awareness of social conditions and disease restrictions	K.4.	PS, O
K05	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5.	PS, O
K06	is ready to propagate health-promoting behaviour	K.6.	PS, O
K07	is ready to draw conclusions from own measurements or observations	K.8.	PS, O
K08	is ready to assume responsibility related to decisions taken as a part of professional activity, also in terms of own safety and the safety of others	K.11.	PS, O

Table presenting LEARNING OUTCOMES in relation to the form of classes

No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other...
1.	F.W1.				X			
2.	F.W2.	X			X			
3.	F.W3.	X	X		X		X	
4.	F.W4.	X	X		X			
5.	F.W5.		X		X			
6.	F.W9.	X	X		X			
7.	F.W1.				X			
8.	F.W2.	X			X			
9.	F.W3.	X	X		X		X	
10.	F.U1.		X		X			
11.	F.U2.		X		X			
12.	F.U3.		X		X			
13.	F.U4.				X			
14.	F.U5.		X		X			
15.	F.U6.				X			
16.	F.U7.	X	X		X		X	
17.	F.U8.		X		X			
18.	F.U9.				X			

19.	F.U10.	X	X		X		X	
20.	F.U11.				X			
21.	F.U13.	X	X		X			
22.	F.U15.	X	X		X			
23.	F.U17.	X	X		X			
24.	K.1.				X			
25.	K.2.				X			
26.	K.3.				X			
27.	K.4.				X			
28.	K.5.				X			
29.	K.6.				X			
30.	K.8.				X			
31.	K.11.				X			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Winter semester			
Seminars – 14h			
TK 01	Anatomy and physiology of the periodontium. Indicators of periodontal condition and hygiene. Radiological visualization of periodontal diseases.	1	W06, U14
TK 02	Etiopathogenesis of periodontal diseases. Risk factors for periodontal disease.	1	W02, W03
TK 03	Classification of periodontal diseases from 2017. symptomatology, differential diagnosis of gingivitis and periodontitis.	1	W01, W02, W04, W06
TK 04	Prevention and non-surgical treatment of periodontal diseases. Supportive pharmacotherapy.	1	W02, W03, W04, W06, U01, U02, U11-U14, K01-K08
TK05	Management of acute periodontal conditions. Schemes of comprehensive treatment of periodontal diseases.	1	W02, W03, W04, W06, U01, U02, U11-U14, K01-K09
TK06	Surgical treatment of periodontal diseases: indications and contraindications for periodontal treatments. Guided tissue regeneration in the treatment of periodontal diseases. Management of open root furcation. Treatment of epulis.	1	W02, W03, W04, W06, U01-U14, K01-K09
TK07	Rehabilitation of the masticatory system: prosthetic, orthodontic and implantological rehab. in periodontal diseases, treatment of traumatic occlusion. Maintenance phase of periodontal treatment.	1	W01, W02, W03, W04, W06, U01-U14, K01-K09
TK08	Practical application of the classification of periodontal diseases and Periochart in treatment planning.	1	W01, U01
TK09	Oral lesions with blisters and vesicles:	1	W01, W02, W03,

	aphthous, viral diseases and autoimmune diseases: pemphigus, pemphigoid, exudative erythema.		K01-K08, U01-U14
TK10	Lesions in the oral cavity leading to the formation of white, red and white-red lesions: lupus erythematosus, scleroderma, sexually transmitted diseases, HPV infections, leukoplakia, Wilson's lichen planus, white spongiform nevus, hairy tongue, exfoliative cheilitis, geographic tongue.	1	W01, W02, W03, K01-K08, U01-U14
TK11	Burning mouth syndrome. Principles of diagnosis and treatment. Differential diagnosis with oral candidosis, atrophic stomatitis, galvanic inflammation, xerostomia, pain syndromes, denture and orthodontic stomatitis and Sjogren's syndrome.	1	W01, W02, W04, W06, K01-K08, U01-U14
TK12	Potentially malignant disorders of the oral mucosa. Oral examination in oncological prevention. <i>Oral mucositis</i> during chemotherapy and radiotherapy. Dental preparation of the patient for oncological therapy.	1	W01, W02, W04, W06, K01-K08, U01-U14
TK13	Changes on the oral mucosa in the course of diseases of the hematopoietic and lymphatic systems. Graft versus host disease.	1	W01, W02, W04, W06, K01-K08, U01-U14
TK14	Pathological changes in the lips, palate, tongue and cheeks - practical aspects of diagnosis.	1	K01-K08, U01-U14
Practical classes – 36h			
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.	36	W01-W06, U01-U14, K01-K08
Summer semester			
Practical classes – 45h			
TK01	Classification of periodontal and peri-implant diseases 2017.	1	W01
TK02	Healing of wound in the periodontium. Surgical periodontal treatment. Resection and regenerative surgery.	1	W01-W06, U01-U14, K01-K08
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-W06, U01-U14, K01-K08
TK04	The specificity of prosthetic treatment of patients with periodontitis - characteristics of fixed and removable restorations.	1	W01-W06, U01-U14, K01-K08

TK05	Algorithms for comprehensive treatment of periodontitis (sequence of proceedings, difficult and questionable cases, decision errors).	1	W01-W06, U01-U14, K01-K08
TK06	Lesions on the cheek mucosa, mouth-atrium and mouth-floor. Lesions of the gums, toothless alveolar process and palate.	1	W01-W06, U01-U14, K01-K08
TK07	Lesions on the tongue. Lesions on the lips.	1	W01-W06, U01-U14, K01-K08
TK08	Diseases of the salivary glands and associated clinical symptoms in the oral cavity.	1	W01-W06, U01-U14, K01-K08
TK09	Oral changes due to blood diseases. Preparation of a patient for hematopoietic stem cell transplantation. Patient care after transplantation.	1	W01-W06, U01-U14, K01-K08
TK10	Oral changes in children.	1	W01-W06, U01-U14, K01-K08
TK11	The influence of nicotine on periodontium and oral mucosa. Methods of combating nicotine addiction. Minimal anti-smoking intervention.	1	W01-W06, U01-U14, K01-K08
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	W01-W06, U01-U14, K01-K08
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	W01-W06, U01-U14, K01-K08

Booklist

Obligatory literature

1. 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.

2. 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.

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

4. *Color Atlas of Oral and Maxillofacial Diseases.* Brad W. Neville et al. Copyright 2019 by Elsevier Inc.

5. *Color atlas of common oral diseases.* Robert P. Langlais, Craig S. Miller , Jill S. Nield-Gehrig, 5th ed. Philadelphia: Wolters Kluwer, 2017.

6. Hans-Peter Mueller *Periodontology- The Essentials.* Thieme; Edycja 2. (2015)

Supplementary literature

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

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

Standards of procedures required to obtain credit:		
1	Patient examination extra- and intraoral	1 pt
2	Assessment of API, BOP, FMPI indicators	1 pt
3	Hygiene instruction with brushing training	2 pts
4	Supragingival and subgingival scaling (minimum 7)	3 pts

5	Root planing (minimum 3 procedures)		3 pts
6	Sandblasting (minimum 4 procedures)		3 pts
7	Periochart (minimum 7 procedures)		2 pts
8	Analysis of X-ray images		2 pts
9	Periotest examinations		1 pt
10	Additional examinations	- sialometry	1 pt
		- examination of electropotentials in the oral cavity	1 kt
11	Examination of a patient with the oral mucosa disease		1 pt

Minimum 90 points must be obtained for performing procedures during the academic year.

Student's workload	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	95
Time spent on preparation to seminars/ practical classess	20
Time spent on reading recommended literature	20
Time spent on writing report/making project	
Time spent on preparing to colloquium/ entry test	
Time spent on preparing to exam	40
Other	
Student's workload in total	175
ECTS credits for the subject (in total)	7
Remarks	

* 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...