



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 (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 <ul style="list-style-type: none"> <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
Tutor responsible for the module	dr hab. n. med. Małgorzata Mazurek-Mochol, prof. PUM
Department's/ Clinic's/ Unit's website	Department of Periodontology e-mail: perio@pum.edu.pl phone: 914661745 https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/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. The role of lasers in the treatment of periodontal diseases.	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 eczema.	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	Anatomy and physiology of the oral cavity. Patient examination and symptomatology of oral mucosa diseases.	1	W01, U01

TK09	Oral lesions with blisters and vesicles: aphthous ulcers, viral diseases and autoimmune diseases: pemphigus, pemphigoid, exudative erythema	1	W01, W02, W03, K01-K08, U01-U14
TK10	Lesions in the oral cavity leading to the formation of white, red and white-red lesions: mycosis, atrophic lesions, lupus erythematosus, scleroderma, sexually transmitted diseases, HPV infections, keratinization disorders.	1	W01, W02, W03, K01-K08, U01-U14
TK11	Lesions in the oral cavity leading to the formation of white, red and white-red lesions part 2: leukoplakia, Wilson's lichen planus, white spongiform nevus, hairy tongue, exfoliative cheilitis, geographic tongue.	1	W01, W02, W04, W06, K01-K08, U01-U14
TK12	Pre-cancerous conditions (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	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.	1	W01, W02, W04, W06, K01-K08, U01-U14
TK14	Burning mouth syndrome. Principles of diagnosis and treatment. Differential diagnosis with oral candidosis, atrophic stomatitis, xerostomia, pain syndromes, denture and orthodontic stomatitis and Sjogren's syndrome.	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:

- Carrying out a medical interview with a patient - U01, U13 - 5 procedures
- Conducting a physical examination of patient - U02, U13, U16 - 5 procedures
- Interviewing a patient about:

- the essence of their ailments,
- method of treatment,
- prognosis,
- preventive measures (including minimal anti-smoking intervention),
- informed consent for treatment from a patient - U03, U04, U14, U 16 - 5 procedures
- Referral to additional tests and interpretation of these test results with description in documentation - U05, U06, U13, U16 - 3 procedures
- Establishing indications for dental procedures:
 - supra and subgingival scaling,
 - teeth sandblasting,
 - correction of the frenum attachments,
 - covering the gum recession,
 - guided tissue regeneration (GTR),
 - molar hemisection,
 - tooth extraction
- U07, U16 - 4 procedures
- Establishing a written preventive and treatment plan – U08, U09, U11, U15, U16 - 3 procedures
- Treatment of periodontal diseases - removal of dental plaque, scaling, periodontal debridement - U09, U10, U11, U15, U16 - 12 procedures
- Prescribing medication with regard to interactions and side effects - U12, U15 - 3 procedures
- Diagnosis and treatment of mucous membrane diseases (including precancerous conditions) - U01, U02, U05, U07, U09, U12, U13 - 5 procedures

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 classes	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...