



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)

valid from the academic year 2019/2020

General Information

Module title	Periodontal Diseases
Module type	Obligatory
Faculty	Faculty of Medicine and Dentistry
Field of study	Medicine and Dentistry
Major	Not applicable
Level of study	long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	Year 3, semester V and VI
ECTS credits (incl. semester breakdown)	3 ECTS (semester V-1, semester VI-2)
Type/s of training	Lectures 10h /seminars 10h/practical class 35 h (semester V- lectures-5, seminars-5, practical-10; semester VI- lectures-5, seminars-5, practical class-25)
Form of assessment	graded assessment
Head of the Department/ Clinic, Unit	dr hab. n. med. Elżbieta Dembowska, Prof.PUM
Tutor responsible for the module	Dr n.med. Małgorzata Mazurek-Mochol
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-periodontologii
Language	English

Detailed information

Module objectives		<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"> the acquisition of research skills in particular oral periodontal assessment of oral hygiene and periodontal tissue condition documented by selected indicators gain knowledge on the etiopathogenesis of periodontal disease, in particular the importance of bacterial biofilm familiarize students with instruments for removing dental deposits and instruments for the control of oral hygiene gain practical skills in scaling and performing hygienic treatments in prevention and primary treatment of periodontitis 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.
Prerequisite /essential requirements	Knowledge	<p>Knowledge of the:</p> <ul style="list-style-type: none"> anatomy and physiology of the oral cavity with a special focus on periodontal structure and characteristics of the oral mucosa etiopathogenesis, diagnosis and differentiation of periodontal diseases non-surgical treatment of periodontal diseases
	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.

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) ZEK	Method of verification of learning outcomes *
W01	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.
W02	knows rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development	K_F.W03	
W03	knows symptoms, course and procedures for certain diseases of oral cavity , head and neck with regard to age groups	K_F.W05	
W04	knows diagnostics and treatment of parodontium and diseases of oral mucosa	K_F.W11	
W05	knows causes and procedures for management with complications of stomatognathic system diseases	K_F.W14	
W06	knows principles of acid-base equilibrium and transport of oxygen and carbon dioxide in human body	K_F.W21	

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	
U03	provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis	K_F.U03	
U04	provides patient or his/her relatives with bad news about health state	K_F.U04	
U05	samples and protects material for diagnostic examination (incl. of cytology)	K_F.U05	
U06	interprets results of ancillary tests	K_F.U06	
U07	finds indications as to performance of certain dental procedure	K_F.U07	
U08	knows prophylaxis of oral cavity diseases	K_F.U08	Continuous evaluation during exercises. Checking of the practical skills.
U09	knows procedures applicable to diseases of stomatognathic system tissues, tooth and jaw bones	K_F.U09	
U10	treats acute and chronic tooth-related and non-tooth-related inflammation of oral cavity soft tissue, paradontium and jaw bones	K_F.U10	
U11	knows procedures applicable to cases of general and local complications during and after dental treatment	K_F.U11	
U12	prescribes drugs with regard to their interactions and side effects	K_F.U12	
U13	keeps day-to-day patient's records, refers patient to general and special dental and medical examination or treatment	K_F.U13	
U14	recognizes his/her personal constraints, self-evaluates deficits and education requirements, plans his/her own education activity and evaluation thereof	K_F.U14	
U15	presents selected medical issues in written or oral form relevantly to recipient standards	K_F.U15	
U16	establishes treatment in diseases of stomatognathic system tissues	K_F.U18	
U17	diagnoses and treats paradontium disease to basic extent	K_F.U20	
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	
K03	can co-operate with team members and care about occupational safety	K_K03	
K04	shows respect to human body	K_K04	
K05	shows respect to patient, social groups and cares for their goodwill and security	K_K05	
K06	understands proper examiner/examined relationship	K_K08	
K07	understands need for keeping professional secrecy and showing respect to patients' rights	K_K09	

Table presenting learning outcomes of the subject/module in relation to the form of classes									
No.	SYMBOL (referring the standards) ZEK	Type/s of training							
		Lecture	Seminar	Practical classes	Clinical classes	Other...
1.	K_F.W02	X			X				
2.	K_F.W03	X		X	X				
3.	K_F.W05	X			X				
4.	K_F.W11	X		X	X				
5.	K_F.W14	X			X				
6.	K_F.W21		X		X				
7.	K_F.U01				X				
8.	K_F.U02				X				
9.	K_F.U03				X				
10.	K_F.U04				X				
11.	K_F.U05				X				
12.	K_F.U06			X	X				
13.	K_F.U07		X	X					
14.	K_F.U08			X	X				
15.	K_F.U09		X						
16.	K_F.U10				X				
17.	K_F.U11				X				
18.	K_F.U12				X				
19.	K_F.U13			X	X				
20.	K_F.U14				X				
21.	K_F.U15				X				
22.	K_F.U18		X		X				
23.	K_F.U20		X	X	X				
24.	K_K01				X				
25.	K_K02								
26.	K_K03			X	X				
27.	K_K04				X				
28.	K_K05				X				
29.	K_K08			X	X				
30.	K_K09				X				

Module contents no.	Description of teaching programme	No. of hours	References to learning outcomes
	Lectures:		
TK 01	Microbiology of plaque. Bacterial biofilm and its role in the etiology of gum and periodontal diseases. Dental calculus.	1	W02
TK 02	Prevention of periodontal disease - part one.	1	W02
TK 03	Prevention of periodontal disease - part two.	1	W02,W04
TK 04	Non-surgical treatment of gum disease and periodontitis - part one.	1	W03, W04
TK 05	Semester test.	1	
TK 06	Anatomy and periodontal examination. Types of bone defects.	1	U09
TK 07	Pathomechanism of changes in periodontal tissues and progression of periodontopathy.	1	W01
TK 08	Comprehensive treatment of periodontitis. Scheme of the hygienic phase of periodontitis treatment.	1	W04,U08
TK 09	Comprehensive treatment of periodontitis. Scheme of non-surgical and palliative treatment of periodontal inflammation.	1	W04,U10
TK 10	Final test.	1	
	Seminars:		
TK01	Oral hygiene study. Clinical diagnosis of dental plaque. Plaque Indicators: API, PCR, PI, OHI. Plaque staining preparations. Oral hygiene practice.	1	W04
TK02	Periodontal anatomy. Periodontal tissue anatomy. Definition of the tooth-supporting structures. The configuration of the interdental papilla. Epithelial and connective tissue attachment structures. Biological width. Types of root cement. Periodontium. Periodontal innervation and vascularisation. Periodontal lymphatic system.	1	W01
TK03	Periodontal examination. Gingival condition study. Gingival sulcus, gingival pocket, periodontal pocket. Furcation. Clinical attachment loss. Physiological and pathological teeth mobility. Basic gingivitis status indicators - mSBI, BOP, GI, PBI.	1	W04
TK04	Non-surgical treatment of gingivitis and periodontitis - part two. Ultrasonic instruments. Types of scalers. Dental sandblasters. Teeth polishing. Histological, microbiological and clinical changes following the classic non-surgical treatment of gingivitis and periodontitis. Lasers for non-surgical treatment. Photodynamic Therapy - PDT.	1	W04
TK05	Differences in the clinical picture of healthy periodontium, gingivitis and periodontitis. The normal periodontium. Clinical manifestations of gingivitis and periodontitis - differences. Gingival sulcus, gingival pocket, periodontal pocket. Modified and unmodified risk factors for periodontal inflammation.	1	W04,W05

TK06	Gum Diseases related and not related to plaque.	1	W02,W01
TK07	Classification of periodontitis. Chronic and aggressive periodontitis.	1	W03
TK08	Acute conditions of periodontium. Management of acute periodontal conditions. Congenital or acquired deformities and defects.	1	W03
TK09	Radiological visualization of normal periodontium and pathological changes in periodontium.	1	W04,W06
TK10	Teeth movement. Tooth splinting - indication and methodology. Topics of the exercises: clinical exercises with patients.	1	W05
	Practical classes:		
TK01	Periodontal patient examination card. Introduction to periodontal instruments. Simulation of plaque indexing on phantom models. Presentation of selected plaque staining preparations.	2	U13, U17, K06
TK02	Preventive and treatment plan. Periodontal patient examination card - cont. Demonstration of periodontal anatomy on phantom models. Periodontal instrumentation. Hand instrumentation for dental deposits removal. Calibrated periodontal probes – general design characteristics; types of periodontal probes.	2	U13, U17, U08
TK03	Nabers probe. Study of tooth mobility. Periotest. Practice methods of toothbrushing on models. Practice of cleaning interdental spaces on models. Presentation and discussion of additional oral hygiene aids. Instruments for examination of periodontium. Instruments for manual scaling - cont. Indirect and direct support.	2	U06, U08, W04
TK04	Manual instrumentation - cont. Overview of mechanical scalers (magnetostrictive, piezoelectric). Tips for scaling and root planning. Dental sandblasters.	2	U07, U17, W02
TK05	Manual and machine tools - cont. Plaque and gingival condition - indicators - cont. Periodontal anatomy on phantom models - cont. Periodontal examination chart. Methods of dental prophylaxis.	2	K06, U13, U06, U07, U08,U17
TK06	Periodontal patient examination card. Periodontal instruments.	1	U01,U07,U13,U17
TK07	Preventive and treatment plan.	1	U03,U06,U08,U09,U10,U11,U12
TK08	Periodontal examination.	1	U02,U17
TK09	Clinical exercises with patients	22	U01-U15, U18, U20, K01,K02,K03,K04, K05, K06, K07,U16,U17

Booklist
Obligatory literature:
1. The Periodontic Syllabus by Arthur R. Vernino, Jonathan Gray, Elizabeth Hughes. Wolters Kluwer/ Lippincott Williams & Wilkins. Fifth edition. 2008
2. Carranza's Clinical Periodontology by Michael G. Newman, Henry Takei, Fermin A. Carranza, Perry R. Klokkevold
3. Periodontology: Color Atlas of Dental Medicine by Herbert F. Wolf, Edith M. Rateitschak-Pluss Klaus H. Rateitschak

Student's workload (balance sheet of ECTS credits)			
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]		
	Tutor	Student	Average
Contact hours with the tutor	55		
Time spent on preparation to seminars/ practical classess	35		
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	110		
ECTS credits for the subject (in total)	3		
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...