



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE occlusion norms and functions of stomatognathic system valid from the academic year 2017/2018

General Information

Module title	Occlusion norms and functions of stomatognathic system
Module type	<i>Obligatory</i>
Faculty	<i>Faculty of Medicine and Dentistry</i>
Field of study	<i>Medicine and Dentistry</i>
Major	<i>Not applicable</i>
Level of study	long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	<i>Year III, semester VI</i>
ECTS credits (incl. semester breakdown)	4
Type/s of training	<i>lectures (10h) seminars (20h) practical (30h)</i>
Form of assessment	<i>- final examination: test</i>
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Krzysztof Woźniak
Tutor responsible for the module	lek. dent Agnieszka Warmbier (didactics lecturer) dr n. med Katarzyna Lubińska lek. dent Sylwia Jagła
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-ortodoncji
Language	English

Detailed information

Module objectives		The aim of the subject is preparation to present dentistry trough integration of knowledge in anatomy and physiology of stomatognathic system						
Prerequisite /essential requirements	Knowledge	Knowledge, skills, competence - level of proficiency II year dentistry graduate						
	Skills							
	Competences							
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 occlusion norms in different phases of ontogenesis and deviations from norms	K_F.W01			Permanent evaluation/ practical skills control. Oral seminars. Test exam.			
W02	knows causes and procedures for management with complications of stomatognathic system diseases	K_F.W14						
U01	interprets results of ancillary tests	K_F.U06						
U02	diagnoses, differentiates and classifies malocclusion	K_F.U21						
K01	shows habit of self-education and lifelong education	K_K01						
K02	accepts need of standards of conduct and legislation regarding medical practice	K_K02						
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						
		L e c t u r e	S e m i n a r	P r a c t i c a l	C l i n i c a l

				c l a s s e s	l a s s e s				
1.	K_F.W01	X	X	X					
2.	K_F.W14	X	X	X					
3.	K_F.U06		X	X					
4.	K_F.U21		X	X					
5.	K_K01	X	X	X					
6.	K_K02		X	X					
7.	K_K03		X	X					
8.	K_K04		X	X					
Module (subject) contents no.	Descripti on of teaching program me	No. of hours			References to learning outcomes				
	Lectures:	10							
TK 01		prenatal development of masticatory system; primary and secondary palate. First and second period of tooth eruption. Temporomandibular joint, Functional and morphological malocclusions. Dysfunctions and Parafunctions.			W01, W02, K01				
	Seminars:	20							

TK 02		Development of masticatory system (movie). Periods of ontogenesis. Masticatory system – anatomy; skeletal system; primary and secondary dentition. Muscles of masticatory system, tendons, fascias, ligaments, muscle attachments, function. masticatory muscles supra- and infrahyoid muscles, tongue muscles, mimetic muscles, palatal and uvula muscles. Periodontal tissue: morphology, receptors, relationship with orthodontic treatment (tooth movement mechanism). Structure of mucous membrane and its function in stomatognathic system. Nervous system and vascular system. Function of particular components of stomatognathic system. Temporomandibular joint: anatomy, function, development. Centric and lateral occlusion, anterior guidance, rest position and rest space; bite strength, chewing effectiveness. Functions: sucking, swallowing, chewing, respiration, speech, licking, kissing, blowing, whistling, sneezing, cough, hiccup. Norms of prenatal development of masticatory system; primary and secondary palate; relation between position and shape of maxilla and mandible. Masticatory system in the infant period before teeth eruption – phases of tooth development. Occlusion in deciduous dentition (anatomy review), canine classes, Baume's classes; differences between primary and secondary dentition. Deciduous and permanent teeth eruption schedule; mechanisms of tooth eruption.	W01, W02, U01, U02, K01, K02, K03, K04
	Practical classes:	30	
TK 03		Students should be prepared for classes. The knowledge is checked on every practical part of the classes in small groups	W01, W02, U01, U02, K01, K02, K03, K04
Booklist			
Obligatory literature:			
1 Jeffrey P. Okeson: Management of Temporomandibular Disorders and Occlusion, June 2007, ISBN: 0323046142			
2 Mitchell Laura: An introduction of orthodontics. 2007			
Supplementary literature:			
1 Moyers, Robert E. Tytuł Handbook of orthodontics for the student and general practitioner. 3 ed. Chicago ; London : Year Book Medical Publ., 1973.			
2 Jeryl D. English, Timo Peltomäki, Kate Pham-Litschel: Mosby's orthodontic review/ Orthodontic review. St. Louis : Mosby Elsevier, cop. 2009.			
3 Samir E. Bishara, [contributors Athanasios E. Athanasiou [et al.]: Textbook of orthodontics . Philadelphia: W. B. Saunders Co., cop. 2001.			
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	60		

Time spent on preparation to seminars/ practical classess	10		
Time spent on reading recommended literature	10		
Time spent on writing report/making project			
Time spent on preparing to colloquium/ entry test			
Time spent on preparing to exam	20		
Other			
Student's workload in total	100		
ECTS credits for the subject (in total)	4		
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...