



Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (SUBJECT)

General information

Module title: OCCLUSION NORMS AND FUNCTIONS OF THE STOMATOGNATHIC SYSTEM	
Module type	Obligatory.
Faculty PMU	Medicine and Dentistry (WLS)
Major	Medicine and Dentistry (KLD)
Specialty	n.a.
Level of study	long-cycle (S2J)
Mode of study	full-time/part-time
Year of studies, semester e.g. Year 1, semester (I and II)	Year 3 (semester V)
ECTS credits (incl. semester breakdown)	4
Type/s of training	Lectures - (10h) Seminars - (20h) Practical classes - (30h) Total - 60h
Form of assessment	Theoretical exam (test)
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Krzysztof Woźniak
Persons conducting classes	prof. dr hab. Krzysztof Woźniak Dr Beata Rucińska-Grygiel Dr Hanna Bielawska-Victorini Dr Lilianna Szyszka-Sommerfeld Dr Paweł Tsynkiel Dr Agata Budzyńska (tutor)
Department's/Clinic's/Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-ortodoncji
Language	Polish/English

Detailed information

Module objectives		The aim of the module is to prepare for contemporary dental treatment by integrating knowledge of the anatomy and physiology of the stomatognathic system in relation to systemic relationships.
Prerequisite /essential requirements	Knowledge	Knowledge, skills and competences at the level of the completion of II-nd year of studies in the medical and dental field of study.
	Skills	
	Competences	

Description of the learning outcomes for the subject /module			
No. of learning outcome	Student, who has passed the module (subject) knows /is able to /can:	SYMBOL (referring Assumed Learning Outcomes	Means of verification of learning outcomes*
W01	knows occlusion norms in different phases of ontogenesis and deviations from norms	K_F.W01	Assessment on classes/ practical skills check Oral theme seminars. ET – test examination
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	
U03	maps anatomical occlusal conditions and analyses occlusion	K_C.U12	
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	
K03	can co-operate with team members and care about occupational safety	K_K03	
K04	understands sense of responsibility for entrusted property	K_K07	

Table presenting LEARNING OUTCOMES in relation to the form of classes

item	SYMBOL (referring Assumed Learning Outcomes)	Form of didactic classes							
		Lecture	Seminar	Practical classes	Clinical classes	other ...
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_C.U12		X	X					
6.	K_K01	X	X	X					
7.	K_K02		X	X					
8.	K_K03		X	X					
9.	K_K04		X	X					

No. of learning content

Item	Description of learning content	Number of hours	References to learning outcomes for the module
	Lectures		
TK 01	Prenatal development. Disorders of occlusal development in the fetal period. Clefts. First period of teeth replacement. Second period of teeth replacement. The influence of occlusion on the oral cavity; reflex and adaptive mechanisms of the stomatognathic system. Acquired occlusion defects. Functional and morphological disorders of the masticatory organ. Dysfunctions and parafunctions.	10	W01, W02, K01
	Seminars:p	20	
TK 02	Physiology of the masticatory organ. Periods of individual development. Muscles of stomatognathic system and their function. Temporomandibular joint: structure, function, development. Central, lateral, incisor articulation; resting position, lateral movements, resting fissure, masticatory function. Functions: sucking, swallowing (visceral, mature), chewing, breathing, participation in speech. Norms of development of the masticatory organ in fetal period. The masticatory organ in infancy until the eruption of milk teeth - stages of tooth development. Bite in milk teeth, Baum's classes - differences between milk and permanent teeth. Eruption - periods of eruption of milk and permanent teeth. First period of teeth replacement. Second period of teeth replacement. Shape, size, number, structure of permanent teeth. Functional and morphological disorders of the masticatory organ. Dysfunctions and parafunctions. The influence of occlusion on the oral cavity; reflex and adaptive mechanisms of the stomatognathic system. Disorders of occlusal development in the fetal period. Clefts. Acquired occlusion defects.		W01, W02, U01, U02, U03, K01, K02, K03, K04
	Practical classes	30	
TK 03	Practical application of the acquired theoretical knowledge during practical classes		W01,W02,U01,U02, K01,K02,K03,K04

Booklist:			
Obligatory literature:			
1. S. Jabłońska, S. Majewski: Gnatofizjologia stomatologiczna. Normy okluzji i funkcje układu stomatognatycznego. Wydawnictwo Lekarskie PZWL, 2007.			
2. M. Kleinrok: Zaburzenia czynnościowe układu ruchowego narządu żucia. Wydawnictwo Kwintesencja, 1992.			
3. I. Karłowska: Zarys współczesnej ortodoncji. Podręcznik dla studentów i lekarzy stomatologów. Wydawnictwo Lekarskie PZWL, 2001.			
Supplementary literature:			
1. A. Bochenek, M. Reicher: Anatomia człowieka. Wydawnictwo Lekarskie PZWL.			
2. T. W. Sadler: Embriologia Lekarska, Wydawnictwo Med. Tour. Press, 1993.			
Student's workload (balance of ECTS scores)			
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]		
	Tutor	Student	Mean
Contact hours with the tutor	60		
Time spent on preparation to seminars/ practical classes	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 module/subject	4		
Notes			

* 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...