



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Clinical Pharmacolog	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medicine
Level of study	-
Mode of study	full-time studies
Year of studies, semester	Year 4, semester VII
ECTS credits (incl. semester breakdown)	1,5
Type/s of training	Lectures 4 h, e-learning 1 h, seminars 15 h practicals 10 h
Form of assessment *	<input checked="" type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input checked="" type="checkbox"/> test</li> <li><input type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul> <input type="checkbox"/> non-graded assessment  <input type="checkbox"/> final examination <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input type="checkbox"/> test</li> <li><input type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul>
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Department's/ Clinic's/ Unit's website	<a href="http://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-farmakologii-doswiadczalnej-i-klinicznej">www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-farmakologii-doswiadczalnej-i-klinicznej</a>
Language	English

### Detailed information

\* replace  into  where applicable

<b>Module objectives</b>		<p>1. Basic pharmacokinetic processes, genetic determinants of drug action, monitoring therapy, severe adverse drug reactions.</p> <p>2. Discussion of pharmacotherapy in bacterial, fungal and viral infections.</p> <p>3. Principles of using painkillers and local anesthesia. 4. Principles of management of patients with impaired hemostasis.</p> <p>4. Emergency states pharmacotherapy.</p>
Prerequisite /essential requirements	Knowledge	Principles of anatomy, histology, physiology and pathophysiology. Background information from chemistry, biochemistry and microbiology.
	Skills	The ability to use available sources of information and correct interpretation of data from various sources. Ability to read and understand the medical literature.
	Social competences	The habit of self-education, team work and the need for further education.

<b>Description of the learning outcomes for the subject /module</b>			
<b>No. of learning outcome</b>	<b>Student, who has passed the (subject) knows /is able to /can:</b>	<b>SYMBOL (referring the standards)</b>	<b>Method of verification of learning outcomes*</b>
W01	understands relationship between morphological anomalies and function of organs and systems, clinical symptoms and ability of diagnostics and treatment	E.W1	S, K
W02	knows neurological effect of chronic administration of drugs	E.W6	K, SP
W03	knows principles of immunity against infectious diseases in children and adults	E.W9	K
W04	knows rules of pregnant woman management with regard to dental care	E.W12	K, SP
W05	knows causes and mechanisms of circulatory and respiratory arrest and rules of resuscitation and post-resuscitation proceeding	E.W17	K, SP
W06	knows life-threatening states	E.W18	K, SP
U01	plans diagnostics procedures and therapeutic management in case of most common diseases in adults	E.U3	K, SP
U02	identifies life-threatening risks	E.U8	S, K
U03	prescribes drugs, considering drug-drug interactions and adverse reactions	F.U10	S
K01	is ready to perceive and recognize his own limitations, make a self-assessment of deficits and educational needs	K5	O, PS
K02	is ready to use objective sources of information	E.W1	S, K

Table presenting LEARNING OUTCOMES in relation to the form of classes							
No. of learning outcome	Learning outcomes	Type of training					
		Lecture	Seminar	Practical classes	Clinical classes	Simulations	E-learning
W01	E.W1	X	X	X			X
W02	E.W6		X	X			
W03	E.W9		X				
W04	E.W12		X	X			
W05	E.W17		X				
W06	E.W18		X				
U01	E.U3		X	X			
U02	E.U8		X	X			
K01	F.U10		X	X			
K02	K5			X			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
<b>Winter semester</b>			
<b>Lectures</b>			
TK01	Pharmacokinetics	2	W01, W02, W04
TK01	Therapeutic drug monitoring	2	W01, W02
<b>Seminars</b>			
TK01	Adverse drug reactions. Drug interactions	2	W01, W02, U03
TK02	Antipsychotics in dentistry	2	W01, W02, W04, W05, K01, U03
TK03	Antimicrobial drugs in dentistry	2	W01, W02, W03, W04, U01, K01
TK04	Practical aspects of dental infections management	2	W01, W03, K01,
TK05	Asthma and COPD management	2	W01, W02, K01, U02
TK06	Drugs affecting hemostasis, clinical aspects	2	W01, W04, K01
TK07	Drugs in emergency states	3	W01, W02, W05, W06, U01, U02, K01
<b>Practical classes</b>			
TK01	Opioid analgesics in dentistry	3	W01, W02, U01, K01, K02
TK02	Non-opioid analgesics in dentistry	3	W01, W02, K01, K02, U03
TK03	Local anesthetics. General anesthesia in dentistry	3	W01, W02, U01, U02, K01, K02
TK04	Pharmacotherapy in pregnancy	1	W01, W02, W04, K01, K02
<b>e-learning</b>			
TK01	Clinical pharmacology – introduction	1	W01, W02, W04, K02

<b>Booklist</b>
Obligatory
Pharmacology, 7th Edition, Lippincott Illustrated Reviews Series by Richard A. Harvey, Michelle A Clark, Richard Finkel, Jose A. Rey, Karen Whalen
Pharmacology and Therapeutics for Dentistry 7th edition By Frank J. Dowd & Bart Johnson & Angelo Mariotti, Elsevier
Supplementary
Pharmacology, 5th Edition, Elsevier by George M. Brenner, Craig Stevens

<b>Student's workload</b>	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	29
Time spent on preparation to seminars/ practical classess	15
Time spent on reading recommended literature	5
Time spent on writing report/making project	-
Time spent on preparing to colloquium/ entry test	5
Time spent on preparing to exam	-
Time spent on e-learning	1
Student's workload in total	55
<b>ECTS credits for the subject (in total)</b>	<b>1,5</b>
<b>Remarks</b>	

\* 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...