



## Pomorski Uniwersytet Medyczny w Szczecinie

### MODULE SYLLABUS - CLINICAL PHARMACOLOGY General information

Nazwa ZAJĘĆ:	
Module type	Obligatory
PMU Faculty	Faculty of Medicine
Field of study	Medicine
Specjalność	-
Study level	Uniform master
Type of study	stationary, non-stationary
Year of study	V year, semester IX-X (block)
ECTS	1
Forms of instruction (hours)	Practicals – 15 h
Knowledge verification/grading system	<input checked="" type="checkbox"/> credit: <ul style="list-style-type: none"> <li><input type="checkbox"/> written, 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"/> credit, no grade  <input type="checkbox"/> final exam: <ul style="list-style-type: none"> <li><input type="checkbox"/> written, descriptive</li> <li><input type="checkbox"/> test</li> <li><input type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul>
Head of department	Prof. dr hab. n. med. Marek Drożdżik
Responsible person	Prof. dr hab. Monika Białecka, monika-bialecka@post.pl 91-4661589
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Web page	www.farmakol.pum.edu.pl
Instruction language	Polish/English

### Detailed information

Module tasks		1. Familiarizing students with the concepts of clinical pharmacology, pharmacokinetics and pharmacodynamics, side effects of drugs, practical aspects of selected disease states, their pharmacotherapy, safety and effectiveness of drugs used. 2. Principles of combining drugs in order to obtain an optimal clinical effect.
Prerequisite knowledge	Knowledge	Principles of biochemistry, physiology, pathophysiology, general pharmacology and pharmacogenetics
	Skills	Application of pharmacology and clinical pharmacology principles in clinical situations
	Social competences	Self-education and teamwork skills

DESCRIPTION OF TEACHING EFFECTS FOR THE MODULE (SUBJECT)			
Numer of teaching effects	Student, who completed the module (subject) knows/can/is able:	SYMBOL (reference) EKK	Assessing student achievement of learning outcomes (form of verification)
W01	Lists indications for the implementation of therapeutic drug monitoring	E.W42	ZT
U01	Analyzes possible side effects of individual drugs and drug-drug interactions	E.U17	ZT
U02	Proposes individualization of existing therapeutic guidelines and other treatment methods facing ineffectiveness or contraindications to standard therapy	E.U18	ZT
K01	Notices and recognizes his own limitations and makes a self-assessment of educational deficits and needs	E.K5	O
K02	Promotes pro-health behaviors	E.K6	O
K03	Uses objective sources of information	E.K7	O
K04	Formulates conclusions from his own measurements or observations	E.K8	O

Traching effects matrix for the module (subject) referred to type of didactic forms							
Ip. efektu uczenia się	Efekty uczenia się	Type of didactic activity					
		Lecture	Seminar	Laboratory	Clinical classes	Simulation	E-learning
W01	E.W42			x			
U01	E.U17			x			
U02	E.U18			x			

K01	E.K5			x			
K02	E.K6			x			
K03	E.K7			x			
K04	E.K8			x			

<b>MODULE (SUBJECT) TEACHING CONTENT</b>			
<b>Symbol of teaching content</b>	<b>Description of teaching content</b>	<b>Hours</b>	<b>Reference to teaching effects for the module</b>
<b>Ćwiczenia</b>			
TK01	Definition of clinical pharmacology. Clinical drug evaluation. Pharmacokinetics and pharmacodynamics. Therapeutic drug monitoring. Pharmacogenetics. Drug side effects. Drug interactions.	5	E.W42, E.U18, E.K5, E.K6, E.K7, E.K8
TK02	Standards in pharmacotherapy of cardiovascular disorders. Drug combinations in hypertension. Drug combinations in heart failure	5	E.U17, E.K5, E.K6, E.K7, E.K8
TK03	Standards in pharmacotherapy of pain. Pharmacotherapy of patients with multiple comorbidities.	5	E.U17, E.U18, E.K5, E.K6, E.K7, E.K8

<b>Books</b>
Rang & Dale's Pharmacology, 9th Edition, Elsevier by James M. Ritter, Rod J. Flower, Graeme Henderson, Humphrey P. Rang
Clinical Pharmacology, 12th Edition, Elsevier by Morris Brown Pankaj Sharma Fraz Mir Peter Bennett

<b>Student workload</b>	
Forma nakładu pracy studenta (udział w zajęciach, aktywność, przygotowanie sprawozdania, itp.)	Student workload [h]
	Teacher evaluation
Direct teaching	15
Classes/seminar preparation	2
Self-reading of the specified literature	4
Laboratory reports writing/project preparation	
Section testing preparation	4
Exam preparation	
Others	
Summary of students workload	25
ECTS points	1
<b>Comments</b>	