



Pomorski Uniwersytet Medyczny w Szczecinie

MODULE SYLLABUS (SUBJECT) General information

Nazwa ZAJĘĆ: CLINICAL PHARMACOLOGY	
Module type	<i>Obligatory</i>
PMU Faculty	<i>Faculty of Medicine</i>
Field of study	<i>Medicine</i>
Specjalność	<i>Not applicable</i>
Study level	<i>Uniform master</i>
Type of study	<i>stationary, non-stationar</i>
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"> <input type="checkbox"/> written, descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> credit, no grade <input type="checkbox"/> final exam: <ul style="list-style-type: none"> <input type="checkbox"/> written, descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
Head of department	Prof. dr hab. n. med. Marek Drożdżik
Responsible person	Prof. dr hab. Monika Białecka, monika-bialecka@post.pl 91-4661589
Address	Department of Pharmacology Powstańców Wlkp. Str. 72 70-111 Szczecin
Web page	www.farmakol.pum.edu.pl
Instruction language	Polish/English

Detailed information

Module tasks		<p>1. Detailed information about particular drug classes, drug names, actions and principles for clinical application, and drug combination in a given therapeutic indication.</p> <p>2. Discussion of drug side effects, including drug-drug interaction consequences.</p> <p>3. Drug prescription standards and practice of prescription.</p>
Prerequisite knowledge	Knowledge	Principles of biochemistry, physiology, histology, genetics
	Skills	Basic mathematical calculations, the ability to use the acquired knowledge
	Social competences	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	is able to characterize individual groups of therapeutic agents	K_C.W36	K
W02	is able to explain the mechanisms of action of drugs and their changes in the system depending on age	K_C.W37	K
W03	discusses the impact of disease states on drug metabolism and elimination	K_C.W40	K
W04	knows the basic principles of pharmacotherapy	K_E.W7	K
W05	knows the most important side effects of drugs, including drug-drug interactions	K_E.W10	K
W06	understands aspects of drug resistance, including multidrug resistance	K_E.W29	K
W07	knows the indications for genetic testing to individualize pharmacotherapy	K_E.W40	K
U01	adjusts drug dosing to adopt medication to pathological states	K_C.U13	K
U02	can correctly prescribe all forms of drug formulas	K_C.U17	K
U03	uses pharmaceutical sources and databases on medicinal products	K_E.U17	K
U04	possess ability to work in a group and is aware of the responsibility associated with professional career	K_E.U18	K
K01	is able to characterize individual groups of therapeutic agents	K_K03	O

Tracing 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	K_C.W36			x			
W02	K_C.W37			x			
W03	K_C.W40			x			
W04	K_E.W7			x			
W05	K_E.W10			x			
W06	K_E.W29			x			
W07	K_E.W40			x			
U01	K_C.U13			x			
U02	K_C.U17			x			
U03	K_E.U17			x			
U04	K_E.U18			x			
K01	K_K03			x			

MODULE (SUBJECT) TEACHING CONTENT			
Symbol of teaching content	Description of teaching content	Hours	Reference to teaching effects for the module
Ćwiczenia			
TK01	Definition of clinical pharmacology. Clinical drug evaluation. Pharmacokinetics. Therapeutic drug monitoring.	3	K_C.W36, K_E.W10, K_E.W40, K_C.U13
TK02	Pharmacogenetics. Adverse drug reactions. Drug interactions.	3	K_C.W40, K_C.U17
TK03	Standards in pharmacotherapy of coronary heart disease, hypertension and heart failure.	3	K_C.W37, K_E.W7, K_E.W10, K_C.U17, K_E.U17, K_E.U18, K_K03
TK04	Standards in pharmacotherapy of pain. Pharmacotherapy of patients with multiple comorbidities. Pharmacotherapy during pregnancy and lactation.	3	K_C.W37, K_E.W29, K_E.U17, K_E.U18
TK05	Anticoagulation in clinical practice. Drug prescription. Final revision.	3	K_C.W36, K_C.W37, K_C.W40, K_E.W7, K_E.W10, K_E.W29, K_C.U17, K_E.U17, K_E.U18, K_K03

Books	
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	
Student workload	
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
Comments	