

Pomorski Uniwersytet Medyczny w Szczecinie

MODULE SYLLABUS (SUBJECT) General information

MODULE NAME: Pharmacology	
Module type	Obligatory
PMU Faculty	Faculty of Medicine and Dentistry
Field of study	Medicine/Dentistry
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of study	3 year / semester V i VI
ECTS	4
Forms of instruction (hours)	lectures- 14h , e-learnig – 6 h, seminars – 15 h, practicals – 45 h
Knowledge verification/grading system	 □ graded assessment: □ written, descriptive □ test □ practical □ oral □ non-graded assessment ⊠ final examination □ written, descriptive ⊠ test □ practical □ oral
Head of the Department	Prof. dr hab. n. med. Marek Droździk
Tutor responsible for the module	Prof. dr hab. Marek Droździk drozdzik@pum.edu.pl 91-4661589
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Instruction language	English

Detailed information

Module objectives		1. Detailed information about particular drug classes, drug names, actions and principles for clinical application, and drug combination in a given therapeutic indication.	
		2. Discussion of drug side effects, including drug-drug interaction consequences.	
		3. Drug prescription standards and practice of prescription.	
	Knowledge	Principles of biochemistry, physiology, histology, genetics	
Prerequisite /essential	Skills	Basic mathematical calculations, the ability to use the acquired knowledge	
requirements	Social competences	Teamwork skills	

Description of	Description of the learning outcomes for the subject /module					
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, mode of action, pharmacokinetics and biotransformation	C.W18	W, K, ET			
W02	is able to define clinical indications and contraindications, dosing, adverse drug reactions and toxicity as well as drug-drug interactions	C.W19	W, K, ET, SP			
W03	knows and understands pharmacotherapy of infections	C.W20	W, K, ET, SP			
W04	knows and understands pharmacotherapy of pain and drug applications in life emergency states	C.W21	W, K, ET, SP			
W05	is able correctly prescribe all forms of drug formulas	C.W22	S, K			
W06	understands the relationship between morphological abnormalities and the function of the dysfunctional organs and systems, clinical symptoms and the possibilities of diagnosis and treatment	E.W1	W, K, ET, SP			
W07	knows the neurological effects of long- term medication	E.W6	W, K, ET			
W08	knows the causes and mechanisms of cardiac and respiratory arrest as well as the principles of resuscitation and post-resuscitation	E.W17	W, K, ET, SP			
U01	prescribes drugs correctly for different clinical indications	C.08	S, K			
U02	prescribes drugs with regard to their interactions and side effects	F.U10	S, K			

K01	is ready to establish and maintain deep and respectful contact with the patient as well as to show understanding for ideological and cultural differences	K.5	K, O, PS
K02	is ready to be guided by the patient wellbeing	K.7	K, EP
K03	is ready to respect physician-patient privilege and patient's rights	K.10	O, SP, PS

Table presenting LEARNING OUTCOMES in relation to the form of classes									
			Type of didactic activitiy						
Numer of teaching effects	Teaching effects	Lecture	Seminar	Laboratory	Clinical classes	Simulation	E-learning	Others	
W01	C.W18	X	Х	Х			Х		
W02	C.W19	X	Х	Х			Х		
W03	C.W20	Χ		Х					
W04	C.W21	Χ	Х	Х			Х		
W05	E.W1	Х	Х	Х			Х		
W06	E.W6	Χ		Х			Х		
W07	E.W17	Χ	Х	Х					
U01	C.U08		Х	Х					
K01	K.5		Х	Х					
K02	K.7		Х	Х					
K03	K.10		Х	Х					

Table presenting TEACHING PROGRAMME				
Symbol of teaching content	Description of teaching content	Hours	Reference to teaching effects for the module	
Winter semest	er	1		
	Lectures			
TK01	Autonomic system drugs	1	W01, W02, W04	
TK02	Drugs in hypertension	1	W01, W02, W04, W06	
TK03	Drugs in chronić and acute coronary events	1	W01, W02, W04 W06	
TK04	Drugs affecting hemostasis	1	W01, W02, W06	
TK05	Drugs used in diabetes mellitus	1	W01, W02, W06	
TK06	Drugs in thyroid gland diseases and osteoporosis	1	W01, W02, W06	
TK07	Glucocorticosteroids	1	W01, W02, W06	
	Seminars			
TK01	Principles of pharmacolohy	2	W01, W02	
TK02	Drugs of autonomic parasymphatetic system	1	W01, W02, W04, W08, W06, K01, K02	

TK03	Drugs of autonomic symphatetic system	2	W01, W02, W04, W06, W08, K01, K02
TK04	Calcium channel antagonists	1	W01, W02, W06, K01, K02
TK05	Drugs affecting RAA system	2	W01, W02, W06, K01, K02, K03
TK06	Diuretics	2	W01, W02, W04, W06, W08, K01, K02, K03
TK07	Drugs for coronary heart disease and heart failure	2	W01, W02, W04, W08, W06, K01, K02, K03
TK08	Hypolipidemic drugs	1	W01, W02, W06, K01, K02
TK09	Drugs for diabetes mellitus	2	W01, W02, W06, K01, K02, K03
	Practicals		·
TK01	Hypotensive agents	2	W01, W02, W06, W08, K01, K02, K03
ТК02	Antiplatelet drugs	2	W01, W02, W06, K01, K02, K03
ТК03	Anticoagulants	2	W01, W02, W06, K01, K02, K03
TK04	Drugs for obesity	1	W01, W02, W06, K01, K02
TK05	Glucocorticoids	2	W01, W02, W06, K01, K02, K03
TK06	Sex hormones	2	W01, W02, W06, W08, K01, K02
TK07	Drugs for thyroid gland pathology and calcium homeostasis	2	W01, W02, W06, K01, K02, K03
TK08	Hypophysis/pituitary gland hormones and related drugs	1	W01, W02, W06, K01, K02
TK09	Final revision	1	W01, W02, K01, K02, K03
	E-learning (lectures)		
TK01	Principles of pharmacology	1	W01, W02
TK02	Autacoids	1	W01, W02
TK03	Antiarrhytmic drugs	1	W01, W02, W04, W06
Summer sem	ester		
	Lectures	1	
TK01	Antimicrobial agents - introduction	1	W01, W02, W03
TK02	Antiviral drugs	1	W01, W02, W03
TK03	Local anesthetics	1	W01, W02, W07
TK04	General anesthesia drugs	1	W01, W02, W08
TK05	Immunosuppressants and anticancer drugs	1	W01, W02, W06, W07
TK06	Analgesic drugs	1	W01, W02, W04, W06, W07

TK07	Antiepileptic drugs	1	W01, W02, W06, W07		
	Practicals				
TK01	Antibacterial drugs	4	W01, W02, W03, K01, K02, W07		
TK03	Antifungal, antiparasitic drugs. Antiseptic agents	2	W01, W02, W03, K01, K02		
TK04	Summary of antimicrobial agents	2	W01, W02, W03, W04, W06, K01, K02		
TK05	Nonopioid analgesics	3	W01, W02, W04, W06, W07, K01, K02		
TK06	Opioid analgesics	2	W01, W02, W04, W06, W07, K01, K02		
TK07	Local anesthetics	3	W01, W02, W04, W07, K01, K02		
TK08	Hypnotic, anxiolytic and sedative drugs	3	W01, W02, W04, W06, W07, W08, K01, K02		
TK09	Summary of drugs affecting central nervous system functions	3	W01, W02, W06, W07, K01, K02		
TK10	Drugs for peptic ulcer disease	2	W01, W02, W06, K01, K02		
TK11	Drugs for gastrointestinal tract diseases	2	W01, W02, W06, K01, K02		
TK12	Drugs for respiratory tract diseases	2	W01, W02, W04, W06, W08, K01, K02		
TK13	Summary – drugs in therapy of organ pathologies	2	W01, W02, W04, W06, K01, K02		
	E-learning				
TK01	Psychotropic drugs - introduction	1	W01, W02, W04, W07		
TK02	Antipsychoric and antidepressant drugs	1	W01, W02, W07		
TK03	Biological drugs	1	W01, W02		

Booklist
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

Student's workload					
Form of student workload	Student workload [h]				
(participation in classes/seminars, activity, report writing, etc.)	Tutor				
Direct teaching	74				
Classes/seminar preparation	10				
Self-reading of the specified literature	10				
Laboratory reports writing/project preparation					
Section testing preparation	25				
Exam preparation	35				
Others	6				
Summary of students workload	160				
ECTS credits for the subject (in total)	4				
Comments					