01 catalogul disciplinei farmacologie englez

Name of discipline	Pharmacology			
Type	Compulsory		Credits	8
Academic year	IIII		Semester	V-VI
Number of hours	Course	60	Laboratory work	50
	Seminar	40	Self-training	90
Component	Fundamental			
Course holder	Pogonea Ina, Coreţchi Ianoş			
Location	Str. Testemiţanu, 27, et. II			
Preconditions and	Program: basic knowledge in related disciplines such as: human			
requirements of:	anatomy, physiology, biochemistry, molecular biology, microbiology,			
	pathophysiology, morphopathology, internal diseases - semiology,			
	surgical diseases - semiology.			
	Abilities: basic digital (internet use, document processing, use of text			
	editors, electronic tables and presentation applications), communication skills and teamwork.			
Aim of the	The main goal of this subject is to study the fundamental			
discipline	principles of pharmacokinetics and pharmacodynamics of drugs, their interaction with the human body, formation of knowledge about			
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	1		t administration, effective and	i narmiess
		-	eases and pathological conditions. will allow you: the formation of a	theorethical
	_	_	eloping a logic way of thinki	
	application of the obtained information; highlighting the importance of pharmacology as a medical-biological discipline to achieve a rational,			
	effective and harmless treatment.			
	Knowledge about pharmacology and its continuous perfection is			
	very important since medicine of the 21st century is a more			
	personalized med		,	
Overview of the	General prescription. General pharmacology. Drugs influencing the			
topics	peripheral innervations. Drugs influencing the CNS. Drugs influencing			
			systems. Drugs influencing in	
	metabolic and in	nmune sy	stems. Antimicrobal and antiparas	sitic drugs
Outcomes		-	ying the discipline, the student will	l be able to:
	_	-	of classification of drugs;	
		particul	arities of prescribing drugs in a	all forms of
	delivery;	.4		
		•	general principles of pharm	nacokinetics,
	• •	-	armacodynamics;	
	Demonstrate phermandyman		\mathcal{E} .	groups by
			narmacokinetic properties the selection of drugs in various of	diseases and
	pathological con-	_	the selection of drugs in various (uiscases allu
	1		ial in resolving the tests, tables a	and problem
	_		implementation in the research ac	-
Clinical skills	at the level of knowledge and understanding:			
		_	ture of the prescription and the p	orinciples of
	drugs in diff		<u> </u>	
	_		ept of raw drug material, substance	ce, form and
	nomenclatur		1	,
1	1	,		

- To identify drug interactions and incompatibilities;
- To list the basic principles of general drug classification;
- To describe basic principles of general and special pharmacokinetics, pharmacodynamics, chronopharmacology and pharmacogenetics;
- To memorize the groups of drugs, the obligatory drugs with their prescription in different medicinal forms;
- To list the classification, mechanism of action, effects, indications, contraindications and side effects of groups of drugs and specific drugs;
- To name the groups of drugs: definition, classification;
- To recognize the affiliation of the drugs to certain groups of chemical pharmacodynamics substances compounds; of (mechanism and site of action. effects. indications. contraindications, side effects and toxicity), pharmacokinetics of substances (route of administration, elimination), comparative characteristics of drugs;
- To find possibilities of using drugs for medical purposes based on the knowledges of their properties.

at application level:

- To select and prescribe drugs in different diseases and pathological conditions;
- To demonstrate pharmacological effects in experimental studies;
- To implement the principles of cause and effect (dose-effect), benefit injury;
- To solve tests and problematic cases;
- To be able to solve emergencies;
- To select the most effective ways of drug administration based on their pharmacokinetic and pharmacodynamic properties, preventing interaction, incompatability and complications of the medical treatment;
- To apply rules of prescription and the prescription of drugs in all their medical forms;
- To prescribe the medication of choice in various diseases and first of all in states of emergency, and depending on the pathogen agent, etc.;
- Apply the dosing principles and determine the routes of administration of age-dependent drugs;
- To estimate pharmacogenetically which drugs pose a risk to the patient in various enzymopathies;
- To estimate the clinical picture and the basic symptoms in drug intoxications, first aid measures, antidotes and general principles of treatment, methods of neutralization of the toxic absorbed in the body and correction of disordered functions;
- To sketch the biological standardization of the drugs;
- To use the concomitant administration of several drugs without risk of incompatibility;
- To administer the correct medicine depending on the biological

	rhythms;
•	To apply the theoretical knowledge to solve the situation
	problems, of the case - clinical problems;
•	Expressly modify a drug with another drug substance in the same
	group to minimize side effects and perform effective treatment;
•	To apply the method for determining the therapeutic index of the
	drug substance in experimental and clinical conditions, renal and
	hepatic clearance;
•	To demonstrate the dose-effect relationship and the bioavailability
	of the drugs;
•	To operate optimally in the provision of emergency assistance in
	situations of overdose or inadequate drug reactions.
at t	he integration level:
•	To assess the importance and role of pharmacology in the context
	of general medicine and its integration into related disciplines;
•	To integrate medical and biological knowledge in learning pharmacology;
	To distinguish the correlations between physiological and
	pathological processes and pharmacological properties of drugs;
•	To form basic principles of ethics and deontology in medical
	treatment (pharmacotherapy);
•	To propose research programs to develop new drugs and study
	further known medical substances;
•	To integrate the acquired knowledge of pharmacology in clinical
	disciplines;
•	To be able to acquire pharmacological news.
Evaluation form Cur	rent assessments and final exam