

<b>Study program:</b> Integrated Academic Studies in Medicine			
<b>Course title:</b> Clinical Pharmacology			
<b>Teacher:</b> Aleksandar L. Rašković, Zdenko S. Tomić, Velibor M. Vasović, Olga J. Horvat, Saša N. Vukmirović, Boris T. Milijašević, Vesna M. Mijatović Jovin Jovin, Nebojša P. Stilinović, Maja P. Đanić, Ana D. Tomas Petrović			
<b>Course status:</b> compulsory			
<b>ECTS Credits:</b> 2			
<b>Condition:</b> -			
<b>Course aim</b> To apply clinical knowledge in the field of pharmacology in clinical practice.			
<b>Expected outcome of the course</b> Students should be able to analyze the existing data on drugs, analyze references for clinical trials, analyze data obtained in clinical trials, to get familiar with pharmacotherapy in target groups of patients. Students must know the ethical rules of clinical research, basic principles of pharmacoepidemiology and pharmacoconomics. Students should be trained to write and present information to patients - participants in clinical research and to present, analyze and define the optimal pharmacotherapy for the most common diseases.			
<b>Course description</b> <i>Theoretical education</i> Drug development. Phases of clinical trials. Pharmacoepidemiology. Pharmacoconomics. Pharmacovigilance. Clinical significance of pharmacokinetic parameters and drug interactions. Clinical toxicology. Rational use of antibacterial drugs. Guidelines and evidence-based medicine. Pharmacotherapy of psychiatric disorders. Pharmacotherapy and guidelines in the treatment of arterial hypertension, heart failure, angina pectoris, and acute coronary syndrome. Pharmacotherapy of pain. Pharmacotherapy of COPD and bronchial asthma. Pharmacotherapy of gastrointestinal disorders. Guidelines for the treatment of endocrine diseases (diabetes, osteoporosis).  <i>Practical education</i> Ethical aspects of clinical research; ethics of clinical pharmacologists. Interpretation of results of preclinical research - significance for clinical testing. Information for participants when conducting academic and sponsored research – processing, presentation and discussion. Information on drugs - a comparison of information provided by the pharmaceutical industry and independent information sources. Educational activity of clinical pharmacologists. Pharmacotherapy problems – processing a pharmacotherapy problem; presentation and discussion. Pharmacotherapy of depression. Pharmacotherapy of kidney failure. Pharmacotherapy of arterial hypertension. Pharmacotherapy of pain in outpatient facilities. Pharmacotherapy of chronic bronchitis.			
<b>Literature</b> <i>Compulsory</i> 1. Bennet PN, Brown MJ. Clinical Pharmacology. 12th ed. London: Churchill Livingstone, 2018. 2. BNF. British Medical Association and Royal Pharmaceutical Society of Great Britain (any edition newer than 2015) <i>Additional</i> 1. Ritter J, Flower R, Henderson G, Loke Y.K, MacEwan D, Rang H. Rang and Dale's Pharmacology. 9th Edition, Elsevier; 2019. 2. Brenner GM, Stevens C. Pharmacology, 6th edition. Elsevier, 2022.			
<b>Number of active classes</b>		<b>Theoretical classes:</b> 30	<b>Practical classes:</b> 30
<b>Teaching methods</b> Theoretical and practical			
<b>Student activity assessment (maximally 100 points)</b>			
<b>Pre-exam activities</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Lectures	5	Written*	50
Practices	5	Oral	40
Colloquium	2x25	Other	-
Essay			
*if the student does not pass both colloquiums, he/she should take the exam in written form			