

<b>University:</b> Comenius University in Bratislava	
<b>Faculty:</b> Faculty of Pharmacy	
<b>Course Code:</b> KFT/11-Mgr-A/00	<b>Course Name:</b> Clinical pharmacology and pharmacotherapy (1)
<b>Type, Extent and Method of Educational Activities:</b> 2 hrs lectures/2 hrs seminars per week <i>method of educational activities: daily attendance</i>	
<b>Number of Credits:</b> 5	
<b>Recommended Study Semester/Trimester:</b> 7	
<b>Study Level:</b> 1. + 2. level ( Mgr.)	
<b>Prerequisite Courses:</b> <i>obligatory prerequisites: - suggested prerequisites: KFT/01-Mgr-A/00 Anatomy and Physiology, KFT/13-Mgr-A/00 Pathology, KFT/14-Mgr-A/00 Pathological Physiology, KFT/08-Mgr-A/00 Pharmacology and Toxicology (1)</i>	
<b>Conditions for Course Completion:</b> <i>Preliminary assessment: 1 seminar work Final assessment: final test - written examination, the minimum threshold of success: 60% Scale of assessment: A: 85 – 100 %, B: 79 – 84 %, C: 73 – 78 %, D: 66 – 72 %, E: 60 – 65 %, FX: 59 % and less</i>	
<b>Results of Education:</b> <i>Students shall acquire basic information not only on the efficacy of medicinal products, but also on their safe administration to patients, in particular risk groups. Students become familiar with the methods of preclinical and clinical trials of medicinal products, explanation of mechanism of interactions, adverse effects of drugs and their monitoring. Pharmacy students will be able to contribute to the rational use of medicines in clinical practice.</i>	
<ul style="list-style-type: none"> <li>- <b>Course Description:</b> - <i>Introduction to the study of Clinical Pharmacology and Pharmacotherapy</i></li> <li>- <i>Preclinical evaluation of drugs</i></li> <li>- <i>Clinical evaluation of drugs</i></li> <li>- <i>Rational pharmacotherapy</i></li> <li>- <i>Harmful effects of drugs, adverse drug reaction</i></li> <li>- <i>Pharmacovigilance</i></li> <li>- <i>Summary of Product Characteristic and Patient Information Leaflet</i></li> <li>- <i>Over the counter drugs</i></li> <li>- <i>European drug policy</i></li> <li>- <i>Drug interactions</i></li> <li>- <i>Humans rights and medicine</i></li> <li>- <i>Ethical problems and non-proved therapeutical approaches</i></li> <li>- <i>Basic pharmacokinetic parameters in clinical practice</i></li> <li>- <i>Prescription form, generic substitution</i></li> <li>- <i>Individual variability in pharmacotherapy of neonates and children, pregnant women, elderly</i></li> <li>- <i>Importance of pharmacogenetics for the rational pharmacotherapy. Gene therapy</i></li> <li>- <i>Chronopharmacology and its importance for therapy</i></li> <li>- <i>Pathophysiological status influencing drug response</i></li> <li>- <i>Obesity, dyslipidemia, diabetes and cardiovascular disease, nutritional supplements for proper diet</i></li> <li>- <i>Abdominal pain – basic evaluation and first aid.</i></li> <li>- <i>Chest pain and back pain – diagnosis and first aid</i></li> </ul>	
<b>Recommended Literature</b> <i>e-books and printed books:</i>	
<ul style="list-style-type: none"> <li>- <i>Walker R, Whittlesea C: Clinical Pharmacy and Therapeutics. Fifth edition. Churchill Livingstone. Elsevier. 2012. 983 p.</i></li> <li>- <i>Brown M.J., Sharma P., Mir F.A., Bennet P.N.: Clinical Pharmacology. 12th Edition. Elsevier. 2018 (available as e-book from Central Library)</i></li> <li>- <i>Francis S-A, Smith F.J., Malkinson J., Constanti A., Taylor K. Integrated Pharmacy Case Studies. Pharmaceutical Press. 2015 (available as e-book from Central Library)</i></li> <li>- <i>Gray A.H., Wright J., Bruce L., Oakley J. Clinical Pharmacy. Second Edition. Pharmaceutical Press. 2016 (available in Central Library for present studying)</i></li> <li>- <i>Nathan A: Managing symptoms in the pharmacy. Second Edition. Pharmaceutical Press. 2012 (available as e-book from Central Library)</i></li> </ul>	
<i>(e-book section from Central Library: <a href="https://www.fpharm.uniba.sk/en/divisions/central-library/e-books/">https://www.fpharm.uniba.sk/en/divisions/central-library/e-books/</a>)</i>	

Online databases: - LEXICOMP Online. Wolters Kluwer Clinical Drug Information, Inc. <online:  
<http://online.lexi.com/lco/action/home>>

**Language Requirements:** *english*

**Notes:**

**Course Evaluation:**

*A – 16.40 %, B – 15.07 %, C – 17.39 %, D – 20.67 %, E – 28.87 %, Fx – 0.96 %*

**Teachers,**

prof. PharmDr. Ján Klimas, PhD., MPH, guarantee

prof. RNDr. Magdaléna Kuželová, CSc.

Mgr. Gabriel Dóka, PhD., PharmDr. Zuzana Kiliánová, PhD., PharmDr. Elena Ondriašová, CSc.,

PharmDr. Tatiana Foltánová, PhD., PharmDr. Stanislava Kosírová, PhD., PharmDr. Eva Kráľová, PhD.,

Mgr. Peter Vavrínek, PhD., Mgr. Diana Vavrinová, PhD.

**Date of Last Update:** 14. 9. 2021

**Approved by:** prof. RNDr. Magdaléna Kuželová, CSc.