

Study program : MEDICINE			
Type and level of studies: Integrated academic studies, Level 1/2			
Course unit: CLINICAL PHARMACOLOGY			
Teacher in charge : Professor Slobodan Jankovic, MD, DSc, MSc, Prim.			
Language of instruction : ENGLISH			
ECTS: 4			
Prerequisites: Completed course in pharmacology and toxicology			
Semester: SUMMER SEMESTER			
Course unit objective : Acquiring knowledge and skills of administering drugs in clinical practice.			
Learning outcomes of Course unit:			
<ul style="list-style-type: none"> • Knowledge about medical treatment of the most prevalent diseases in population (e.g. diabetes, asthma, COPD, hypertension, heart failure, epilepsy, schizophrenia, depression, etc.) • Knowledge about medical treatment and prophylaxis of contagious diseases (bacterial, viral and fungal infections) • Knowledge about clinically important adverse drug reactions and drug-drug interactions • Skills of making appropriate drug choices and tailoring dosage regimens according to the needs of patients 			
Course unit contents			
<i>Theoretical classes</i>			
<i>Clinical pharmacology as a discipline. Basics of pharmacovigilance, pharmacokinetics and pharmacoeconomics. Treatment of cardiovascular diseases (hypertension, heart failure, myocardial infarction, angina pectoris, atrial fibrillation, peripheral arteries disease). Treatment of respiratory diseases (asthma, COPD, pulmonary edema, acute bronchitis, pneumonia). Treatment of gastrointestinal diseases (peptic ulcer disease, GERD, constipation, diarrhea). Treatment of diseases of central nervous system (schizophrenia, major depression, bipolar disease, epilepsy, Parkinson's disease, dementia). Prophylaxis and treatment of intra-abdominal infections caused by bacteria and fungi. Prophylaxis and treatment of urinary tract and skin infections caused by bacteria or fungi. Surgical antibiotic prophylaxis. Treatment of AIDS, viral hepatitis, influenza and herpes virus infections. Treatment of osteoporosis. Clinically important adverse drug reactions and drug-drug interactions.</i>			
<i>Practical classes</i>			
<i>Principles of tailoring dosage regimens according to a patient's needs. Dosing in renal and liver failure. Dosing in patients with renal replacement therapy. Dosing in children and elderly. Beers criteria. Discovering potential drug-drug and drug-food interactions. Causal interpretation of adverse events.</i>			
Literature			
<ul style="list-style-type: none"> • Atkinson JA, Huang SM, Lertora J, Markey SP. Principles of Clinical Pharmacology, 3rd ed., Academic Press, 2012. • Katzung B, Trevor A. Basic & Clinical Pharmacology, 13th edition, McGraw-Hill Medical, 2014. 			
Number of active teaching hours			Other classes
Lectures: 30	Practice: 15	Other forms of classes:	Independent work: 150
Teaching methods: Lectures, practice in a clinic, clinical problems solving			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	30	oral examination	70
practical classes/tests		written examination	
Seminars/homework		
Project			
Other			

Grading system		
Grade	No. of points	Description
10	95-100	Excellent
9	85 – 94	Exceptionally good
8	75 – 84	Very good
7	65 – 74	Good
6	55 – 64	Passing
5	< 55	Failing

(Table 5.2) Course unit description