

Study program: Integrated academic studies in pharmacy			
Type and level of the study program: integrated academic studies			
Course title: Drugs in pregnancy and lactation (PhV-DPAL)			
Teacher: Velibor M. Vasović, Zdenko S. Tomić, Aleksandar L. Rašković, Isidora N. Samojlik, Olga J. Horvat, Saša N. Vukmirović, Boris T. Milijašević, Vesna M. Mijatović, Nebojša P. Stilinović			
Course status: elective			
ECTS Credits: 3			
Condition: -			
Course aim To familiarize students with the basic principles of pharmacotherapy during pregnancy and lactation.			
Expected outcome of the course Introducing students with the basic characteristics of drug application in pregnancy and breast feeding; special attention to the safety of pharmacotherapy, learning about the drug application in pregnancy baes on medical principles for this population group. Students are expected to know the principles of rational pharmacotherapy for pregnant women.			
Course description <i>Theoretical education:</i> Selection of the drug , depending on the sex of the patient . Physiological characteristics of pregnant women and the fetus , which could affect the pharmacokinetic and pharmacodynamic properties of drugs . Physiological characteristics of nursing mothers and newborn / infant , which affect the properties of drugs during lactation. Criteria used to assess the risk and safety of the drug for use in pregnancy and breastfeeding . Classification of drugs in the safety category for use in pregnancy and breastfeeding . The effect of drugs on organogenesis , the fetus and the course of pregnancy. The effect of gestational age on fetal characteristics of drugs . Biological markers that indicate the exposure to drugs during pregnancy. Clinical studies in pregnant women. The safety of antihypertensive drugs in pregnancy and lactation. The safety of antiemetics in pregnancy and breastfeeding. The safety of antimicrobial agents during pregnancy and lactation. The safety of drugs for the treatment of neuropsychiatric disorders (anxiolytics , antidepressants , antipsychotics and antiepileptic drugs) during pregnancy and lactation. Prophylactic use of drugs in pregnancy. Rational pharmacotherapy of pain in pregnancy. Rational use of tocolysis and uterotonic. The influence of tobacco smoke , alcohol and drug abuse on the fetus and pregnancy. <i>Practical education: exercises, other forms of education, research related activities:</i> Sources of data on the safety of medicines used in pregnancy and lactation. Analysis of the results of preclinical studies relevant for the safety assessment of drug use in pregnancy and breastfeeding. Analysis of the results of clinical studies are important for safety assessment of drug use in pregnancy and breastfeeding. Case reports – regarding the usage of drugs during pregnancy and breastfeeding. Students' seminar papers.			
Literature <i>Compulsory</i> 1. Walker R, Whittlesea C. Clinical Pharmacy and Therapeutics, 4 th edition ed. Churchill Livingstone, Edinburgh, 2007. 2. Laurence DR, Bennett PN. Clinical pharmacology. Seventh edition: Churchill Livingstone, 1992. <i>Additional</i> -			
Number of active classes			Other:
Lectures: 30	Practice: 15	Other types of teaching: Research related activities:	
Teaching methods Theoretical and practical			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	5	Written	
Practices	5	Oral	40
Colloquium		Other	
Essay	50		