



<b>Study program:</b> Integrated Academic Studies in Dental Medicine			
<b>Course title:</b> Rational Drug Use in Pregnancy and Lactation			
<b>Teacher:</b> Aleksandar L. Rašković, Zdenko S. Tomić, Olga J. Horvat, Saša N. Vukmirović, Boris T. Milijašević, Vesna M. Mijatović Jovin, Nebojša P. Stilinović			
<b>Course status:</b> elective			
<b>ECTS Credits:</b> 3			
<b>Condition:</b> -			
<b>Course aim</b> To get students acquainted with basic principles of pharmacotherapy during pregnancy and lactation			
<b>Expected outcome of the course</b> The students will get acquainted with basic principles of drug application during pregnancy and lactation, with particular emphasis on the safety of pharmacotherapy; students will acquire knowledge on administration of drugs during pregnancy and lactation, which have proved safe and reasonable for application in this specific population according to the principles of evidence based medicine. The students are expected to be acquainted with basic principles of rational pharmacotherapy in the population of gravid women and women in lactation period			
<b>Course description</b> <i>Theoretical education:</i> Selection of the drug according to the sex of the patient. Physiological characteristics of pregnant woman and the fetus affecting the pharmacokinetic and pharmacodynamic features of drugs. Physiological characteristics of pregnant woman and the fetus affecting the characteristics of drugs during lactation period. Criteria for risk assessment and safety of drugs intended for application during pregnancy and lactation period. Classification of drugs into safety-categories related to their application during pregnancy and lactation period. Effects of drugs on organogenesis, fetus and pregnancy course. Effects of gestation age on drug features. Biomarkers indicating exposure to drugs during pregnancy. Clinical trials on pregnant women. Safety of the application of antihypertensive drugs during pregnancy and lactation. Safety of the application of antiemetics during pregnancy and lactation. Safety of the application of antimicrobials during pregnancy and lactation. Safety of the application of drugs for the treatment of neuropsychiatric disorders (anxiolytics, antidepressants, antipsychotics and antiepileptics) during pregnancy and lactation. Prophylactic application of drugs during pregnancy. Rational pain therapy during pregnancy. Rational application of tocolytics and uterotonics. Effects of cigarette smoke, alcohol and drug misuse on the fetus and pregnancy  <i>Practical education:</i> Information sources on safety of drugs applied during pregnancy and lactation periods. Analysis of the results of preclinical studies of importance for assessment of safety of drugs to be applied during pregnancy and lactation. Analysis of the results of clinical trials of importance for assessment of safety of drugs to be applied during pregnancy and lactation. Case reports – paper patients addressing the application of drugs during pregnancy and lactation. Seminar papers prepared by the students.			
<b>Literature</b> <i>Compulsory</i> 1. Rang HP, Dale MM, Ritter JM, Moore PK. Pharmacology. Churchill Livingstone, Edinburgh, New York, 2003. 2. Brenner GM, Stevens C. Pharmacology, 4 <sup>th</sup> edition. Elsevier, 2012			
<b>Number of active classes</b>		<b>Theoretical classes:</b> 30	<b>Practical classes:</b> 15
<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*	40
Practices	5	Oral	
Colloquium*		Other	
Essay	50		