



Study program: Doctoral Academic Studies in Biomedical Sciences		
Course title: POLYTRAUMA		
Teacher(s): Goran S. Rakić, Ilija Lj. Srdanović, Nemanja V. Gvozdrenović		
Course status: elective		
ECTS: 20		
Pre-requirements: -		
Course goals: The main goal of studying polytrauma is to familiarize students with this specific occurrence which is very common in medical practice. Also, to master the recognition of epidemiological, clinical and therapeutic aspects of polytrauma and to master skills for practical application of the acquired knowledge. In addition, to develop critical reasoning and the ability to recognize and adequately respond in the event of encountering polytrauma. Furthermore, to develop skills for scientific research as well as to acquire and implement the scientifically established facts in clinical work.		
Course outcomes: The students have mastered modern aspects of diagnosis and therapy of polytrauma and can use the scientifically established facts in clinical practice as well as for original scientific work. Students have developed creativity and originality in the interpretation of scientific results and have engaged research cooperation with foreign countries. Students have gained practical application of learned techniques and specific skills of either resuscitation or surgical type related to polytrauma. Students have acquired the knowledge for qualification and classification of injuries within polytrauma and have developed the ability to apply the acquired knowledge and skills in creating and interpreting a scientific research project.		
Course contents: <i>Theoretical lectures</i> <ol style="list-style-type: none"> 1. The place and significance of polytrauma in everyday practice 2. Shock management in polytraumatized patient 3. Complications of polytrauma 4. Polytrauma in children 5. Organization of polytrauma care 6. Craniocerebral injuries within polytrauma 7. Maxillofacial injuries within polytrauma 8. Chest injuries within polytrauma 9. Intra-abdominal injuries within polytrauma 10. Injuries of the musculoskeletal system within polytrauma 11. Vascular injuries within polytrauma 12. Burns within polytrauma 13. Urinary tract injuries within polytrauma <i>Practical lectures</i> <ol style="list-style-type: none"> 1. Basics of reanimation and resuscitation of polytraumatized patient 2. Practical work in the department of emergency surgery Literature <ol style="list-style-type: none"> 1. Heckman JD, McKee M, McQueen MM, Ricci W, Tornetta III P. Rockwood and Green's Fractures in Adults. Lippincott Williams & Wilkins; 2014. 2. McGrory BJ, Frederick M, Azar, MD, James H. Beaty, MD, S. Terry Canale, MD, editors. Campbell's Operative Orthopaedics. 4 volume set, Philadelphia: Elsevier; 2017. 		
Number of active classis	Theory: 60	Practice: 45
Teaching methods Lectures. Seminars. Practical work under the supervision of a mentor. The exam and the final grade are formed on the basis of the candidate's activities in the preparation and conduct of the seminar during the course by the mentor and the final oral exam.		
Assessment of knowledge (maximum number of points 100) activity during lectures: 15 seminar(s): 5 SWR: 30		

written exam: 20

oral exam: 30