

Study program: Medicine			
Type and level of the study program: Integrated academic studies			
Course title: Anaesthesia and perioperative medicine (M5-APM)			
Teacher: Biljana G. Drašković, Ljiljana V. Gvozdrenović, Anna S. Uram-Benka, Gordana V. Jovanović, Arsen A. Uvelin, Izabella M. Fabri			
Course status: Compulsory			
ECTS Credits: 4			
Condition: Internal medicine; General pharmacology; Special pharmacology			
Course aim The aim of this course is to train future general practitioners to prepare and assess surgical patients; inform them about techniques of general and regional anesthesia, general measures of intensive care, as well as about intensive care in special pathological conditions. Therapy of acute and chronic pain and cardiopulmonary resuscitation.			
Expected outcome of the course: Preoperative assessment and preparation of surgical patients. Specific features of general and regional anesthesia. Identification, diagnosis, monitoring and treatment of emergency patients with special review of pathological conditions (injuries, burns, sepsis, shock, pancreatitis etc.). Acute and chronic pain assessment. Cardiopulmonary resuscitation in all age groups and clinical conditions. Intubation and venous catheterization. Other modes of drug application. Algorithms of preoperative preparation. Monitoring of the critically ill. Infusion of electrolytes, blood and blood derivatives. Postoperative pain assessment and therapy.			
Course description <i>Theoretical education</i>		19. Trauma and polytrauma 20. Burns – intensive care and therapy 21. Basic and complex resuscitation 22. Airway (intubation techniques, complications) 23. Preoperative blood and blood derivatives transfusion 24. Brain death, donors, cadaveric transplantation	
1. Preoperative patient preparation 2. General anesthesia – classification 3. General anesthesia – anesthetics and other medications used during general anesthesia 4. General anesthesia – complications and postoperative monitoring 5. Sedation and analgesia 6. Acute pain therapy 7. Chronic pain therapy 8. Regional anesthesia (techniques, drugs, complications) 9. Critically ill patients 10. Shock (definition, classification, stages, therapy) 11. Sepsis (definition, classification, stages, therapy) 12. Intravenous sedation (classification, techniques, equipment and complications) 13. Acid-base status, intravenous infusions 14. Acute pulmonary conditions 15. Mechanical ventilation 16. Pancreatitis – intensive care and therapy 17. Acute kidney failure in critically ill 18. Nutrition of the critically ill (enteric and parenteral)		<i>Practical education: exercises, other forms of education, research related activities</i> Phantom resuscitation takes place in outpatient facilities for preoperative preparation and in operating rooms, as well as emergency units. 1. Preoperative patient preparation algorithms. 2. Infusion (classification, techniques, equipment, complications). 3. Intramuscular drug application and other manners. 4. Regional anesthesia techniques 5. Assessment of patients' hydration and acid base status 6. Correction of electrolyte and acid-base disorders 7. Intubation – practice 8. Monitoring and therapy of the critically ill 9. Postoperative pain assessment and therapy 10. CPRC - Cardiopulmonary cerebral resuscitation in adults 11. CPRC - Cardiopulmonary cerebral resuscitation in children	
Literature <i>Compulsory</i> 1. Marino PL. ICU book, 3rd Edition. Lippincott Williams & Wilkins 2007. <i>Additional</i> 1. Allman K, Wilson I, O'Donnell. Oxford handbook of anaesthesia. Oxford University Press 2011.			
Number of active classes			Other:
Lectures: 30	Practice: 30	Other types of teaching: Research related activities:	
Teaching methods			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	15	Written	
Practices	25	Oral	40
Colloquium		Practical	20
Essay			