

Study program: Medicine			
Type and level of the study program: Integrated academic studies			
Course title: Pain medicine (M5-PAME)			
Teacher: Gvozdenović V. Ljiljana, Drašković B. Biljana, Jovanović V. Gordana, Popović N. Radmila, Tubić M. Teodora, Uvelin A. Arsen, Uram Benka S. Ana, Fabri Galamboš M. Izabela, Knežević Lj. Aleksandar			
Course status: Elective			
ECTS Credits: 3			
Condition:			
Course aim The basic goal of this course is to recognize pain as a global health problem, as well as psychosocial pain dimensions and consequences of pain, pain assessment and therapy and implementation of acquired knowledge into practice. Development of critical opinion and ability for scientific research work.			
Expected outcome of the course: Providing students with knowledge about the complexity of pain phenomena. Pain classification by pain mechanisms and time duration. Recognition of pain relief as a basic human right and ethical imperative. Pharmacological and nonpharmacological methods and technology in pain therapy. Obstacles in efficacy of pain treatment. Use of opioid analgesics. Opiophobia and opioignorance. Examination of patient with pain and pain assessment. Documentation. Pain therapy choice. Pain relief estimation, adverse drug effects, assessment of pain therapy clinical outcome.			
Course description <i>Theoretical education</i>		11. Trigeminal neuralgia. Cervical and lumbar radiculopathy. 12. Minimally invasive procedure for the treatment of chronic pain. 13. Painful diabetic neuropathy. Postherpetic neuralgia. 14. Central pain syndromes. 15. Physical therapy in the treatment of chronic pain.	
1. Neuroanatomical substrates of nociception. 2. Definition and classification of pain. 3. Pain as a health problem. Pain as a symptom and pain as a disease. Multidimensionality. Psychosocial and economic consequences. 4. Acute pain, character, service to control acute pain. 5. Occasionally chronic pain. 6. Pain assessment: unidimensional scales (VAS, NRS, VRS). Multidimensional scales and questionnaires. 7. Pharmacological therapy: Non-opioid analgesics. Opioids. The routes of administration of drugs. Opiophobia. 8. Coanalgesics: antidepressants, anticonvulsants and other adjuvant analgesics. 9. Migraine. Tension headache. Cluster headaches. 10. Acupuncture in the treatment of chronic pain.		<i>Practical education: exercises, other forms of education, research related activities</i> 1. Chronic pain treatment (noncancer pain) 2. Headache - treatment 3. Acupuncture treatment of pain 4. Chronic pain treatment (cancer pain) 5. Treatment of acute and chronic pain in children	
Literature <i>Compulsory</i> 1. Allman K, Wilson I, O'Donnell. Oxford handbook of anaesthesia. Oxford University Press 2011. <i>Additional</i> -			
Number of active classes			Other:
Lectures: 15	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	20	Written	
Practices	20	Oral	60
Colloquium			
Essay			