

Study program: Integrated academic studies in medicine			
Type and level of the study program: integrated academic studies			
Course title: Neurology (M4-NERO)			
Teacher: Gebauer Bukurov E. Ksenija, Žarkov G. Marija, Živanović D. Željko, Jovanović I. Aleksandar, Jovičević N. Mirjana, Rabi Žikić J. Tamara, Semnic D. Marija, Simić S. Svetlana			
Course status: compulsory			
ECTS Credits: 5			
Condition: Clinical propedeutics (exam); General pharmacology (exam)			
Course aim The aim of this course is to provide medical students with knowledge on pathogenetic basis and clinical symptoms of common neurological disorders and their current neurological diagnostic procedures, treatment, and prognosis.			
Expected outcome of the course: The course provides students with a general understanding of symptoms and signs of disorders of different structures of the central nervous system, evaluation of the patient with neurological symptoms, how and when to suspect a neurological entity, perform an adequate diagnostic procedure and if necessary initiate a treatment. After completing the course the student should: <ul style="list-style-type: none"> – be able to carry out history-taking and a complete neurological examination of the patient and based on it – formulate a working (probable) diagnosis and indicate basic laboratory investigations; – be familiar with basic principles of the management of urgent neurological conditions; – have an understanding of conditions that require referral to a neurology specialist (i.e. whether a condition requires in-patient investigation and treatment) 			
Course description <i>Theoretical education</i>		<i>Practical education: exercises, other forms of education, research related activities</i>	
1. Episodic disturbance of consciousness, coma, delirium. Sleep disorders		1. Neurological history taking	
2. Epilepsy and epileptic syndromes		2. Examination of cranial nerves I-VI	
3. Headache, neuralgia, vertigo		3. Examination of cranial nerves VII-XII	
4. Ischemic cerebrovascular disease		4. Examination of the neck, upper and lower limbs (nutrition, tonus, movement, muscular reflexes, strength, stretching tests)	
5. Hemorrhagic cerebrovascular disease and brain edema		5. Examination of sensibility	
6. Infectious disease of the CNS and neurological complications of systemic disorders		6. Extrapyramidal symptoms and signs	
7. Dementias		7. Examination of cerebellar functions	
8. Leucodystrophies and metabolic disorders		8. Examination of higher cerebral functions	
9. Neurological aspects of CNS trauma and CNS tumors		9. Diagnostic procedures in neurology (EEG, video EEG, EMNG, EP, LP, CSF isoelectric focusing, ultrasonography, CT, MRI, PET, SPECT)	
10. Demyelinating diseases		10. Examination of a comatose patient	
11. Movement disorders and cerebellar disorders		11. Examination of a patient with myasthenia gravis	
12. Developmental neurology		12. Neurological examination of a pediatric patient	
13. Motor neuron disorders and polyneuropathies		13. Gait disorders (differential diagnosis)	
14. Brainstem and spinal cord disorders		14. Headaches	
15. Neuromuscular junction disorders and muscular disease		15. Complete neurological examination of different neurological diseases, differential diagnosis	
Literature <i>Compulsory :</i>			
1. Mumenthaler M, Mattle H. Fundamentals of neurology. Thieme, 2006.			
2. Gilman S. at al. Oxford american handbook of neurology. Oxford University Press, Inc. 2010.			
3. Westover MB. Pocket neurology. Lippincott Williams and Wilkins, 2016			
<i>Additional:</i>			
1. Adams RD, Victor M, Ropper AH. Principles of neurology. Mc Graw-Hill New York 1997 (2005,2009,2014)			
Number of active classes			Other:
Lectures: 30	Practice: 60	Other types of teaching:	
Research related activities:			
Teaching methods: lectures, practice			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points	Final exam	points
Lectures	5	Written	60
Practices	25	Oral	
Colloquium		Practical	10
Essay			