

### UČEBNÝ PLÁN PREDMETU

<b>Názov predmetu:</b>	Neurology 1	<b>Forma štúdia:</b>	Full-time study
<b>Podmieňujúce predmety:</b>	Anatomy 3	<b>Obdobie štúdia:</b>	7. semester
<b>Študijný program:</b>	General medicine	<b>Rozsah výučby:</b>	2/4 hour/week
<b>Katégória predmetu:</b>	compulsory	<b>Počet kreditov:</b>	4
<b>Forma výučby:</b>	lecture/practical lessons		
<b>Forma ukončenia:</b>	passed		

Týždeň	Prednáška	Cvičenie
1.	<p><b>23.09.2020</b></p> <p><b>Neurology</b> - general considerations. <b>History taking.</b></p> <p><b>Cranial nerves I-XII</b>, anatomy, physiology, pathology.</p> <p><i>Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	<p><b>Neurology</b> - general considerations. <b>History taking.</b></p>
2.	<p><b>30.09.2020</b></p> <p><b>Affection of the upper and the lower motor neurons</b> – anatomic and physiologic considerations, diagnosis of paralytic states – lesion of corticospinal tract, brain stem syndromes, lower motor neuron lesions. <b>Sensation.</b> Anatomy, pathology.</p> <p><i>MUDr. Vladmír Haň, PhD.</i></p>	<p><b>Cranial nerves I-XII</b>, anatomy, physiology, pathology.</p>
3.	<p><b>07.10.2020</b></p> <p><b>Language and higher cortical function.</b> Physiological and anatomical considerations. Language disorders, brain lobes pathology.</p> <p><i>Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	<p><b>Affection of upper and lower motor neurons</b> – anatomic and physiologic considerations, diagnosis of paralytic states – lesion of corticospinal tract, brain stem syndromes, lower motor neuron lesions. <b>Sensation.</b> Anatomy, pathology.</p>
4.	<p><b>14.10.2020</b></p> <p><b>Cerebellum.</b> Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. <b>Extrapyramidal system.</b> Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia.</p> <p><i>Doc. MUDr. Matej Škorvánek, PhD.</i></p>	<p><b>Language and higher cortical function.</b> Physiological and anatomical considerations. Language disorders, brain lobes pathology.</p>
5.	<p><b>21.10.2020</b></p> <p><b>Meningeal syndrom. Cerebrospinal fluid.</b> Physiology, pathology. <b>Lumbar puncture. Intracranial hypertension. Herniation of the brain</b> – temporal, occipital.</p> <p><i>MUDr. Marianna Vitková, PhD.</i></p>	<p><b>Cerebellum.</b> Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. <b>Extrapyramidal system.</b> Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia.</p>
6.	<p><b>28.10.2020</b></p> <p><b>Plane X-ray</b> of the skull and spine. <b>Computer tomography</b> of the brain and spinal column. <b>MRI</b> of the brain and spinal cord. PET, SPECT, DAT SCAN. <b>Ultrasound examintaion in neurology.</b> Duplex ultrasound of extracranial and intracranial cerebral</p>	<p><b>Meningeal syndrom. Cerebrospinal fluid.</b> Physiology, pathology. <b>Lumbar puncture. Intracranial hypertension. Herniation of the brain</b> – temporal, occipital.</p>

	<p>arteries. <b>Angiography of cerebral arteries.</b> General considerations, clinical value.</p> <p><i>Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	
7.	<p><b>04.11.2020</b></p> <p><b>Electroencephalography. Polysomnography.</b> General considerations, clinical value.</p> <p><i>MUDr. Eva Feketeová, PhD.</i></p>	<p><b>Plane X-ray</b> of the skull and spine. <b>Computer tomography</b> of the brain and spinal canal. <b>MRI</b> of the brain and spinal cord.</p> <p><b>Ultrasound examintaion in neurology.</b> Duplex ultrasound of extracranial and intracranial cerebral arteries. <b>Angiography of cerebral arteries.</b> General considerations, clinical value.</p>
8.	<p><b>11.11.2020</b></p> <p><b>Neurophysiological examination in neurology.</b> Evoked potentials, electromyography. General considerations, clinical value.</p> <p><i>Doc. MUDr. Jarmila Szilasiová, PhD.</i></p>	<p><b>Electroencephalography. Polysomnography.</b></p>
9.	<p><b>18.11.2020</b></p> <p><b>Consciousness and unconsciousness.</b> Causes of unconsciousness, quantitative disorders of consciousness: drowsiness, stupor, coma. The investigation of unconscious patient. Glasgow coma scale. Delirium. Brain death.</p> <p><i>MUDr. Eva Feketeová, PhD.</i></p>	<p><b>Neurophysiological examination in neurology.</b> Evoked potentials, electromyography. General considerations, clinical value.</p>
10.	<p><b>25.11.2020</b></p> <p><b>Sleep disorders.</b> Hypersomnia of the CNS origin. Restless leg syndrome.</p> <p><i>MUDr. Eva Feketeová, PhD.</i></p>	<p><b>Consciousness and unconsciousness.</b> Causes of unconsciousness, quantitative disorders of consciousness: drowsiness, stupor, coma. The investigation of unconscious patient. Glasgow coma scale. Delirium. Brain death.</p>
11.	<p><b>02.12.2020</b></p> <p><b>TEST</b></p>	<p><b>Sleep disorders.</b> Hypersomnia of the CNS origin. Restless leg syndrome.</p>
12.	<p><b>09.12.2020</b></p> <p><b>Head injury.</b> Concussion, subdural, epidural hematoma, contusion of the brain. <b>Spinal column and spinal cord injury.</b></p> <p><i>Doc. MUDr. Jarmila Szilasiová, PhD.</i></p>	<p>Examination of the patient.</p>
13.	<p><b>16.12.2020</b></p> <p><b>Dementia.</b> Diagnosis, diferencial diagnosis. Alzheimer disease, Lewy body disease, frontotemporal dementia. Vascular dementia, other dementias. Diagnostic, therapy.</p> <p><i>Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	<p><b>Head injury.</b> Concussion, subdural, epidural hematoma, contusion of the brain. <b>Spinal column and spinal cord injury.</b></p>
14.	<p><b>23.12.2020</b></p> <p><b>Developmental diseases of the nervous system.</b> Cranial abnormalities, cerebral palsy, fakomatosis, neurofibromatosis (M. Recklinghausen,) syringomyelia.</p> <p><i>Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	<p><b>Dementia.</b> Diagnosis, diferencial diagnosis. Alzheimer disease, Lewy body disease, frontotemporal dementia. Vascular dementia, other dementias. Diagnostic, therapy.</p>

**Conditions for passing the course:**

1. Active participation in practical exercises – according the dean's order and epidemiological situation.
2. Complete the video lecture before the beginning of the practical exercise. Video lecture will be available on the educational Portal LF UPJŠ.
3. Practical examination of the neurological patient.
4. Successful completion of the test, evaluation A – E (possibility to repeat the test 2 times).

**Literature:**

Gdovinová Z., Szilasiová J.: Textbook of general neurology. Košice : Aprilla Ltd. for Hanzlúvka Books, 2009. 189 s. ISBN 9788089346158 (brož.).

Brust J.C.M.: Neurology. Current Diagnosis and treatment. Lange Medical Books/McGraw-Hill, 2007. 601 pp. ISBN: 13: 978-0-07-110554-5

Last modification: 16. september 2020