

### 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>19.09.2018</b></p> <p><b>Neurology</b> - general considerations. <b>History taking. Cranial nerves I-XII</b>, anatomy, physiology, pathology.</p> <p><i>Doc. MUDr. Jarmila Szilasiová, Phd.</i></p>	<p><b>Neurology</b> - general considerations. <b>History taking. Cranial nerves I-XII</b>, anatomy, physiology, pathology.</p>
2.	<p><b>26.09.2018</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>Prof. MUDr. Zuzana Gdovinová, CSc.</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>
3.	<p><b>03.10.2018</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>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>
4.	<p><b>10.10.2018</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.</i></p>	<p><b>Language and higher cortical function.</b> Physiological and anatomical considerations. Language disorders, brain lobes pathology.</p>
5.	<p><b>17.10.2018</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>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>24.10.2018</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>Meningeal syndrom. Cerebrospinal fluid.</b> Physiology, pathology. <b>Lumbar puncture. Intracranial hypertension. Herniation of the brain</b> – temporal, occipital.</p>

7.	<p><b>31.10.2018</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.</p> <p><i>Prof. MUDr. Zuzana Gdovinová, CSc.</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>
8.	<p><b>07.11.2018</b></p> <p><b>Electroencephalography. Polysomnography.</b></p> <p><i>MUDr. Eva Feketeová, PhD.</i></p>	<p>Electroencephalography. Polysomnography.</p>
9.	<p><b>14.11.2018</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>Neurophysiological examination in neurology.</b> Evoked potentials, electromyography. General considerations, clinical value.</p>
10.	<p><b>21.11.2018</b></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> <p><i>Prof. MUDr. Zuzana Gdovinová, CSc.</i></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>
11.	<p><b>28.11.2018</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>Sleep disorders.</b> Hypersomnia of the CNS origin. Restless leg syndrome.</p>
12.	<p><b>05.12.2018</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><b>Head injury.</b> Concussion, subdural, epidural hematoma, contusion of the brain. <b>Spinal column and spinal cord injury.</b></p>
13.	<p><b>12.12.2018</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.</i></p>	<p><b>Dementia.</b> Diagnosis, diferencial diagnosis. Alzheimer disease, Lewy body disease, frontotemporal dementia. Vascular dementia, other dementias. Diagnostic, therapy.</p>
14.	<p><b>19.12.2018</b></p> <p><b>Developmental diseases of the nervous system.</b> Cranial abnormalities, cerebral palsy, fakomatosis, neurofibromatosis (M. Recklinghausen,) angiomatosis, myelodysplazy, syringomyelia.</p> <p><i>Prof. MUDr. Zuzana Gdovinová, CSc.</i></p>	<p><b>Developmental diseases of the nervous system.</b> Cranial abnormalities, cerebral palsy, fakomatosis, neurofibromatosis (M. Recklinghausen,) angiomatosis, myelodysplazy, syringomyelia</p>

**Conditions for passing the course:**

1. 100 % active participation in practical exercises, in the case of absence, may substitute up to 3 exercises per semester
2. Compulsory attendance in at least 9 lectures (national holidays are not included).
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: 14. september 2018