

### SYLABUS

<b>Subject:</b>	Neurology 1	<b>Form of study:</b> full-time
<b>Prerequisites:</b>	Anatomy 2,3	<b>Semester:</b> 7. semester
<b>Study program:</b>	General medicine	<b>Number of ours:</b> 2 hours per week
<b>Teaching formats:</b>	lecture/practical lessons	<b>Credits:</b> 4
<b>Evaluation:</b>	test	

**Monday: 15:15 - 16:45**

<i>Week</i>	<i>Lecture</i>	<i>Practical lessons</i>
1.	<p><b>18.09.2023</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>
2.	<p><b>25.09.2023</b></p> <p><b>Neurology</b> - general considerations. <b>History taking.</b> <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>
3.	<p><b>02.10.2023</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., univ. prof.</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>09.10.2023</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>Cerebellum.</b> Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. <b>Extrapyramidal system.</b> Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia.</p>
5.	<p><b>16.10.2023</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>doc. MUDr. Marianna Vitková, PhD.</i></p>	<p><b>Language and higher cortical function.</b> Physiological and anatomical considerations. Language disorders, brain lobes pathology.</p>

6.	<p><b>23.10. 2023</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>doc. MUDr. Eva Feketeová, 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>30.10.2023</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><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., FESO, FEAN</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>
8.	<p><b>06.11.2023</b></p> <p><b>Electroencephalography. Polysomnography.</b> General considerations, clinical value.</p> <p><i>doc. 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>
9.	<p><b>13.11.2023</b></p> <p><b>Electromyography, evoked potentials.</b> General considerations, clinical value.</p> <p><i>prof. MUDr. Jarmila Szilasiová, PhD.</i></p>	<p><b>Electroencephalography. Polysomnography.</b></p>
10.	<p><i>20.11.2023</i></p> <p><b>Sleep disorders.</b> Hypersomnia of the CNS origin. Restless leg syndrome.</p> <p><i>doc. MUDr. Eva Feketeová, PhD.</i></p>	<p><b>Electromyography, evoked potentials.</b></p>
11.	<p><b>27.11.2023</b></p> <p><b>TEST</b></p>	<p><b>Sleep disorders.</b> Hypersomnia of the CNS origin. Restless leg syndrome.</p>
12.	<p><b>04.12.2023</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>prof. MUDr. Jarmila Szilasiová, PhD.</i></p>	<p>Examination of the patient.</p>
13.	<p><b>11.12.2023</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>18.12.2023</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. Jarmila Szilasiová, PhD.</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.
2. Practical examination of the neurological patient.
3. Successful completion of the test, evaluation A – E (possibility to repeat the test 2 times).

*Attendance at the lectures is optional..*

**Literature:**

Gdovinová Z., Szilasiová J.: Textbook of general neurology. Košice : Aprilla Ltd. for Hanzlúvka Books, 2009. 189 s. ISBN 9788089346158 (brož.), also 3d edition 2019, ISBN 978-1-259-83531-5, ISSN 1932-1074

Brust J.C.M.: Neurology. Current Diagnosis and treatment. Lange Medical Books/McGraw-Hill, 2007. 601 pp. ISBN: 13: 978-0-07-110554-5, also 3d edition 2019, ISBN 978-1-259-83531-5, ISSN 1932-1074

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