

SYLABUS

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

Monday: 15:15 - 16:45

Week	Lecture	Practical lessons
1.	<p>16.09.2024</p> <p>Neurology - general considerations. History taking. Cranial nerves I-XII, anatomy, physiology, pathology.</p> <p><i>prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	<p>Cranial nerves I-XII, anatomy, physiology, pathology.</p>
2.	<p>23.09.2024</p> <p>Affection of the upper and the lower motor neurons – anatomic and physiologic considerations, diagnosis of paralytic states – lesion of corticospinal tract, brain stem syndromes, lower motor neuron lesions. Sensation. Anatomy, pathology.</p> <p><i>MUDr. Vladmír Haň, PhD.</i></p>	<p>Neurology - general considerations. History taking.</p>
3.	<p>30.09.2024</p> <p>Language and higher cortical function. Physiological and anatomical considerations. Language disorders, brain lobes pathology.</p> <p><i>prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	<p>Affection of upper and lower motor neurons – anatomic and physiologic considerations, diagnosis of paralytic states – lesion of corticospinal tract, brain stem syndromes, lower motor neuron lesions. Sensation. Anatomy, pathology.</p>
4.	<p>07.10.2024</p> <p>Cerebellum. Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. Extrapyramidal system. Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia.</p> <p><i>prof. MUDr. Matej Škorvánek, PhD.</i></p>	<p>Language and higher cortical function. Physiological and anatomical considerations. Language disorders, brain lobes pathology.</p>
5.	<p>14.10.2024</p> <p>Meningeal syndrom. Cerebrospinal fluid. Physiology, pathology. Lumbar puncture. Intracranial hypertension. Herniation of the brain – temporal, occipital.</p> <p><i>prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	<p>Cerebellum. Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. Extrapyramidal system. Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia.</p>
6.	<p>21.10. 2024</p> <p>Consciousness and unconsciousness. 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>Meningeal syndrom. Cerebrospinal fluid. Physiology, pathology. Lumbar puncture. Intracranial hypertension. Herniation of the brain – temporal, occipital.</p>

7.	<p>28.10.2024</p> <p>Plane X-ray of the skull and spine. Computer tomography of the brain and spinal column. MRI of the brain and spinal cord. PET, SPECT, DAT SCAN.</p> <p>Ultrasound examintaion in neurology. Duplex ultrasound of extracranial and intracranial cerebral arteries. Angiography of cerebral arteries. General considerations, clinical value.</p> <p><i>prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	<p>Consciousness and unconsciousness. Causes of unconsciousness, quantitative disorders of consciousness: drowsiness, stupor, coma. The investigation of unconscious patient. Glasgow coma scale. Delirium. Brain death.</p>
8.	<p>04.11.204</p> <p>Electroencephalography. Polysomnography. General considerations, clinical value.</p> <p><i>doc. MUDr. Eva Feketeová, PhD.</i></p>	<p>Plane X-ray of the skull and spine. Computer tomography of the brain and spinal canal. MRI of the brain and spinal cord.</p> <p>Ultrasound examintaion in neurology. Duplex ultrasound of extracranial and intracranial cerebral arteries. Angiography of cerebral arteries. General considerations, clinical value.</p>
9.	<p>11.11.2024</p> <p>Electromyography, evoked potentials. General considerations, clinical value.</p> <p><i>prof. MUDr. Jarmila Szilasiová, PhD.</i></p>	<p>Electroencephalography. Polysomnography.</p>
10.	<p>18.11.2024</p> <p>Sleep disorders. Hypersomnia of the CNS origin. Restless leg syndrome.</p> <p><i>doc. MUDr. Eva Feketeová, PhD.</i></p>	<p>Electromyography, evoked potentials.</p>
11.	<p>25.11.2024</p> <p>TEST</p>	<p>Sleep disorders. Hypersomnia of the CNS origin. Restless leg syndrome.</p>
12.	<p>02.12.2024</p> <p>Head injury. Concussion, subdural, epidural hematoma, contusion of the brain. Spinal column and spinal cord injury.</p> <p><i>prof. MUDr. Jarmila Szilasiová, PhD.</i></p>	<p>Examination of the patient.</p>
13.	<p>09.12.2024</p> <p>Dementia. 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>Head injury. Concussion, subdural, epidural hematoma, contusion of the brain. Spinal column and spinal cord injury.</p>
14.	<p>16.12.2024</p> <p>Developmental diseases of the nervous system. Cranial abnormalities, cerebral palsy, fakomatosis, neurofibromatosis (M. Recklinghausen,) syringomyelia.</p> <p><i>prof. MUDr. Jarmila Szilasiová, PhD.</i></p>	<p>Dementia. 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. **Attendance at the 9 lectures is mandatory**
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.), 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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