

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
2.	22.09.2025 Neurology - general considerations. History taking. Cranial nerves I-XII , anatomy, physiology, pathology. <i>prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i>	Cranial nerves I-XII , anatomy, physiology, pathology.
3.	29.09.2025 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. <i>MUDr. Vladimír Haň, PhD.</i>	Neurology - general considerations. History taking.
4.	06.10.2025 Language and higher cortical function. Physiological and anatomical considerations. Language disorders, brain lobes pathology. Consciousness and unconsciousness. Causes of unconsciousness, quantitative disorders of consciousness: drowsiness, stupor, coma. The investigation of unconscious patient. Glasgow coma scale. Delirium. Brain death. <i>prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i>	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.
5.	13.10.2025 Meningeal syndrom. Cerebrospinal fluid. Physiology, pathology. Lumbar puncture. Intracranial hypertension. Herniation of the brain – temporal, occipital. <i>prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i>	Language and higher cortical function. Physiological and anatomical considerations. Language disorders, brain lobes pathology. Consciousness and unconsciousness. Causes of unconsciousness, quantitative disorders of consciousness: drowsiness, stupor, coma. The investigation of unconscious patient. Glasgow coma scale. Delirium. Brain death.
6.	20.10.2025 Cerebellum. Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. Extrapyramidal system. Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia. <i>prof. MUDr. Matej Škorvánek, PhD.</i>	Meningeal syndrom. Cerebrospinal fluid. Physiology, pathology. Lumbar puncture. Intracranial hypertension. Herniation of the brain – temporal, occipital.
7.	27.10. 2025 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. Ultrasound examintaion in neurology. Duplex ultrasound of extracranial and intracranial cerebral	Cerebellum. Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. Extrapyramidal system. Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia.

	<p>arteries. Angiography of cerebral arteries. General considerations, clinical value.</p> <p><i>prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN</i></p>	
8.	<p>03.11.2025</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 examination in neurology. Duplex ultrasound of extracranial and intracranial cerebral arteries. Angiography of cerebral arteries. General considerations, clinical value.</p>
9.	<p>10.11.2025</p> <p>Electromyography, evoked potentials. General considerations, clinical value.</p> <p><i>prof. MUDr. Jarmila Szilasiová, PhD.</i></p>	Electroencephalography. Polysomnography.
10.	<p>17.11.2025 SVIATOK</p> <p>Sleep disorders. Hypersomnia of the CNS origin. Restless leg syndrome.</p> <p><i>doc. MUDr. Eva Feketeová, PhD.</i></p>	Electromyography.
11.	<p>24.11.2025</p> <p>TEST</p>	Evoked potentials
12.	<p>01.12.2025</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>	Examination of the patient.
13.	<p>08.12.2025</p> <p>Dementia. Diagnosis, differential 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>	Head injury. Concussion, subdural, epidural hematoma, contusion of the brain. Spinal column and spinal cord injury.
14.	<p>15.12.2025</p> <p>Sleep disorders. Hypersomnia of the CNS origin. Restless leg syndrome.</p> <p><i>doc. MUDr. Eva Feketeová, PhD.</i></p>	Dementia. Diagnosis, differential diagnosis. Alzheimer disease, Lewy body disease, frontotemporal dementia. Vascular dementia, other dementias. Diagnostic, therapy

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 Hanzlukva 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