Univerzita Pavla Jozefa Šafárika v Košiciach, Lekárska fakulta

Neurologická klinika

UČEBNÝ PLÁN PREDMETU

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

Týždeň	*Prednáška*	*Cvičenie*
1.	**18.09.2019** **Neurology** - general considerations. **History taking.** *Doc. MUDr. Jarmila Szilasiová, PhD.*	**Neurology** - general considerations. **History taking.**
2.	**25.09.2019** **Cranial nerves I-XII,** anatomy, physiology, pathology. *MUDr. Eva Feketeová, PhD.*	**Cranial nerves I-XII,** anatomy, physiology, pathology.
3.	**02.10.2019** **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. *MUDr. Vladmír Haň*	**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.
4.	**09.10.2019** **Language and higher cortical function.** Physiological and anatomical considerations. Language disorders, brain lobes pathology. *Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN*	**Language and higher cortical function.** Physiological and anatomical considerations. Language disorders, brain lobes pathology.
5.	**16.10.2019** **Cerebellum.** Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. **Extrapyramidal system.** Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia. *Doc. MUDr. Matej Škorvánek, PhD.*	**Cerebellum.** Anatomy. Paleocerebellar and neocerebellar syndromes. Disorders of stance and gait. **Extrapyramidal system.** Hypertonic - hypokinetic syndrom. Hypotonic - hyperkinetic syndrom. Dystonia.
6.	**23.10.2019** **Meningeal syndrom**. **Cerebrospinal fluid.** Physiology, pathology. **Lumbar puncture. Intracranial hypertension**. **Herniation of the brain –** temporal, occipital**.** *Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN*	**Meningeal syndrom**. **Cerebrospinal fluid.** Physiology, pathology. **Lumbar puncture. Intracranial hypertension**. **Herniation of the brain –** temporal, occipital**.**
7.	**30.10.2019** **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.	**Plane X-ray** of the skull and spine. **Computer tomography** of the brain and spinal canal. **MRI** of the brain and spinal cord.

	Ultrasound examintaion in neurology. Duplex ultrasound of extracranial and intracranial cerebral arteries. **Angiography of cerebral arteries.** General considerations, clinical value. *Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN*	**Ultrasound examintaion in neurology.** Duplex ultrasound of extracranial and intracranial cerebral arteries. **Angiography of cerebral arteries.** General considerations, clinical value.
8.	**06.11.2019** **Electroencephalography. Polysomnography.** *MUDr. Eva Feketeová, PhD.*	Electroencephalography. Polysomnography.
9.	**13.11.2019** **Neurophysiological examination in neurology.** Evoked potentials, electromyography. General considerations, clinical value. *Doc. MUDr. Jarmila Szilasiová, PhD.*	**Neurophysiological examination in neurology.** Evoked potentials, electromyography. General considerations, clinical value.
10.	**20.11.2019** **Consciousness and unconsciousness.** Causes of unconsciousness, quantitative disorders of consciousness: drowsiness, stupor, coma. The investigation of unconscious patient. Glasgow coma scale. Delirium. Brain death. *MUDr. Eva Feketeová, PhD.*	**Consciousness and unconsciousness.** Causes of unconsciousness, quantitative disorders of consciousness: drowsiness, stupor, coma. The investigation of unconscious patient. Glasgow coma scale. Delirium. Brain death.
11.	**27.11.2019** **Sleep disorders.** Hypersomnia of the CNS origin. Restless leg syndrome. *MUDr. Eva Feketeová, PhD.*	**Sleep disorders.** Hypersomnia of the CNS origin. Restless leg syndrome.
12.	**04.12.2019** **Head injury.** Concussion, subdural, epidural hematoma, contusion of the brain. **Spinal column and spinal cord injury.** *Doc. MUDr. Jarmila Szilasiová, PhD.*	**Head injury.** Concussion, subdural, epidural hematoma, contusion of the brain. **Spinal column and spinal cord injury.**
13.	**11.12.2019** **Dementia.** Diagnosis, diferencial diagnosis. Alzheimer disease, Lewy body disease, frontotemporal dementia. Vascular dementia, other dementias. Diagnostic, therapy. *Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN*	**Dementia.** Diagnosis, diferencial diagnosis. Alzheimer disease, Lewy body disease, frontotemporal dementia. Vascular dementia, other dementias. Diagnostic, therapy.
14.	**18.12.2019** **Developmental diseases of the nervous system.** Cranial abnormities, cerebral palsy, fakomatosis, neurofibromatosis (M. Recklinghausen,) angiomatosis, myelodysplazy, syringomyelia. *Prof. MUDr. Zuzana Gdovinová, CSc., FESO, FEAN*	**Developmental diseases of the nervous system.** Cranial abnormities, cerebral palsy, fakomatosis, neurofibromatosis (M. Recklinghausen,) angiomatosis, myelodysplazy, syringomyelia

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 Hanzluvka 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

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