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**Educational objectives (max. 6 items)**

- 1). Getting students familiar with methodology of neurological examination, diagnostic procedures in central and peripheral nervous system diseases.
- 2). Getting students familiar with different groups of neurological disorders and therapeutic possibilities according to the newest scientific data.
- 3). Practical application of the theoretical knowledge.

**Education result matrix for module/course in relation to verification methods of the intended education result and the type of class**

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>
K 01	E.W.13	knows and differentiates the basic neurological syndromes knows and	Oral presentation, test, practical examination, theoretical examination (oral)	L, CC
K 01	E.W.14	understands causes, symptoms and signs, rules of diagnostic and therapeutic procedures in the most common neurological disorders: a). headaches: migraine, tension headache, others headaches, trigeminal neuralgia b). vascular disorders, mostly in stroke). epilepsy). infections of the nervous system, mostly meningitis, tick-born syndrome, herpetic encephalitis, transmissible spongiform encephalopathies). dementias, mostly in Alzheimer disease, frontal dementia, vascular dementia and others). basal ganglia disorders, mostly in Parkinson disease). demyelinating disorders, mostly in multiple sclerosis). neuromuscular disorders, mostly i amyotrophic lateral sclerosis and sciatic neuralgia). head injury, mostly in concussions.	Oral presentation, test, practical examination, theoretical examination (oral)	L, CC
S01	E.U.1	Knows how to conduct the medical interview in adult patient	Oral presentation, practical examination	CC
S02	E.U.3	Knows how to examine the adult patient	Oral presentation, practical examination	CC
S03	E.U.7	Knows how to estimate the general status, state of consciousness, and awareness,	Oral presentation, practical examination	CC
S04	E.U.30.5	Assists the procedures: lumbar puncture	Practical skills	CC

\*\* L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories:  
communication of knowledge, skills or forming attitudes:  
Knowledge: 5  
Skills: 5



Student's amount of work (balance of ECTS points)	
Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	90
2. Student's own work (self-study):	103
Total student's workload	193
<b>ECTS points for module/course</b>	6,5
Comments	
<b>Content of classes</b> (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)	
<b>Lectures</b> <ol style="list-style-type: none"> <li>1. Structural basis of nervous system's function.- 2h</li> <li>2. Developmental disorders of nervous system. Pyramidal syndromes. .- 2h</li> <li>3. Basis of neuropediatrics: cerebral palsy, hereditary disorders. .- 2h</li> <li>4. Frontal, temporal, occipital, and parietal lobes' lesions. .- 2h</li> <li>5. Extrapyrmidal syndromes (parkinsonism, Huntington chorea, dystania) .- 2h</li> <li>6. Headaches (migraine, tension-type headache), secondary headaches, brain tumors. .- 2h</li> <li>7. Vascular diseases of central nervous system.- 2h</li> <li>8. Dementia (Alzheimer disease, vascular dementia, secondary and reversible dementia). .- 2h</li> <li>9. Demyelinating disorders (multiple sclerosis – diagnosis, treatment). .- 2h</li> <li>10. Epilepsy – classification, types, treatment. Coma, brain death. .- 2h</li> <li>11. Neuromuscular and autonomic disorders: diagnosis, treatment. .- 3 h</li> <li>12. Cognitive dysfunctions( aphasia, agnosia, apraxia). .- 2,5h</li> <li>13. Emotions, memory. Autonomic disfunction. .- 2,5h</li> </ol>	
<b>Seminars</b> <ol style="list-style-type: none"> <li>1.</li> <li>2.</li> <li>3.</li> </ol>	
<b>Practical classes</b> <b>Winter semester:</b> <ol style="list-style-type: none"> <li>1. Interview. Examination of head, cranial nerves I, II, III, IV and VI.- 4h</li> <li>2. Examination of cranial nerves V, VII, VIII, cerebellopontine angle syndrome. .- 4h</li> <li>3. Examination of cranial nerves IX, X, XI, XII, bulbar and pseudobulbar syndromes.- 4h</li> <li>4. Examination of limbs and trunk, radicular and meningeal signs. .- 4h</li> <li>5. Cognitive impairment examination: aphasia, apraxia, agnosia. Examination of comatose patient, coma and brain death.- 4h</li> <li>6. Symptoms of central and peripheral motor pathway lesions, symptoms of spinal cord lesions: vertical and horizontal lesions, sensory pathway lesions. .- 4h</li> <li>7. Cerebellar and extrapyramidal symptoms.- 4h</li> <li>8. Neurodiagnostic procedures: neuroelectrophysiological procedures: EEG, EMG, EP, ENG, cerebrospinal fluid examination, radiological procedures: CT, MRI, fMRI, PET, SPECT, vascular investigations: doppler, angio-CT, angio-MR, neuropathological examination.- 2h</li> </ol>	



**Summer semester:**

1. Demyelinating diseases.- 4h
2. Vascular diseases of CNS -4h
3. Tumors of brain and spinal cord, headache.- 4h
4. Epilepsia, dementia, Alzheimer disease - 4h
5. CNS infections, AIDS - neurological complications – 4h
6. Neurodegenerative disorders: Parkinson's disease, MSA – 4h
7. Peripheral nerve, plexus and root disfunctions, myopathies, myasthenia gravis and myasthenic syndromes – 4h,
8. Early and late head injury complications – 2h, practical examination – 2h

**Other**

- 1.
- 2.
- 3.

etc. ...

**Basic literature** (list according to importance, no more than 3 items)

1. Weiner H. L., Levitt L. P.: Neurology, William and Wilkins, 2008,
2. Rowland L.P.: Merritt's Neurology, Lippincott William and Wilkins, 2005

**Additional literature and other materials** (no more than 3 items)

1. Bradley W.G.: Neurology in clinical practice. Butterworth Heinemann, 2003.
2. Hankey G.J., Wardlaw J.H.: Clinical Neurology. Blackwell Publishing, Manson Publishing 2002

**Didactic resources requirements** (e.g. laboratory, multimedia projector, other...)

Computer, multimedia projector, internet connection

**Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)

**Credits for previous subjects, first of all anatomy and physiology**

**Conditions to receive credit for the course** (specify the form, criteria and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades).

**Each absence must be made up, including rector's days or dean's hours.**

Participation in all classes (100%), credit for the classes in the form of the practical examination, oral examination. Each absence could be made up for the whole academic year during classes, and the teachers' duties.



<b>Grade:</b>	<b>Criteria for course</b>
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	
<b>Grade:</b>	<b>Criteria for exam (if applicable)</b>
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	

<b>Name of unit teaching course:</b>	<b>Department of Neurology</b>
Address	<b>Borowska 213, 5-556 Wrocław</b>
Phone	<b>+48 71 734 31 00</b>
E-mail	<b>slawomir.budrewicz@umed.wroc.pl</b>

<b>Person responsible for course:</b>	<b>Prof. Sławomir Budrewicz</b>
Phone	<b>+ 48 71 734 31 00</b>
E-mail	<b>slawomir.budrewicz@umed.wroc.pl</b>

<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>

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<b>Anna Pokryszko-Dragan</b>	MD, PhD, post-doctoral	neurology	physician	Lectures, clinical classes
<b>Magdalena Koszewicz</b>	MD, PhD, post-doctoral	neurology	physician	Lectures, clinical classes
<b>Marta Nowakowska-Kotas</b>	MD, PhD	neurology	physician	Lectures, clinical



				classes
<b>Mieszko Zagrajek</b>	MD, PhD	neurology	physician	Lectures, clinical classes
<b>Ewa Koziarowska-Gawron</b>	MD, PhD	neurology	physician	Lectures, clinical classes
<b>Justyna Chojdak-Łukasiewicz</b>	MD, PhD	neurology	physician	Lectures, clinical classes
<b>Justyna Oziom</b>	Graduate student	neurology	physician	Clinical classes
<b>Jakub Ubysz</b>	Graduate student	neurology	physician	clinical classes
<b>Paulina Papier</b>	Graduate student	neurology	physician	Clinical classes

**Date of Syllabus development**

10.05.2020

Uniwersytet Medyczny we Wrocławiu  
KATEDRA NEUROLOGII  
Klinika Neurologii  
ul. Borowska 213, 50-136 Wrocław  
tel. 71 734 31 00, faks: 71 734 31 09

dr hab. n. med.  
Magdalena Koszewicz  
Klinika Neurologii  
71-33760

**Syllabus developed by**

Magdalena Koszewicz

**Signature of Head of teaching unit**

Uniwersytet Medyczny we Wrocławiu  
KATEDRA NEUROLOGII  
Klinika Neurologii  
Kierownik

dr hab. Sławomir Budrewicz, prof. nadzw.

**Signature of Faculty Dean**

Wrocław Medical University  
Vice-Rector for Faculty Studies  
prof. Beata Łukasiewicz, PhD