



Distance learning (asynchronous)																		
Summer Semester																		
Direct (contact) education	28					16												
Online learning (synchronous)						16												
Online learning (asynchronous)																		
TOTAL per year:																		
Direct (contact) education						31												
Online learning (synchronous)	28					31												
Online learning (asynchronous)																		
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 **enter the abbreviation						
W 01	E.W.13	knows and differentiates the basic neurological syndromes knows and					Oral presentation, test, practical examination, theoretical examination (oral)					L, CC						
W 02	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						
U 01	E.U.1	Knows how to conduct the medical interview in adult patient					Oral presentation, practical examination					CC						



U 02	E.U.3	Knows how to examine the adult patient	Oral presentation, practical examination	CC
U 03	E.U.7	Knows how to estimate the general status, state of consciousness, and awareness,	Oral presentation, practical examination	CC
U 04	E.U.30.5	Assists the procedures: lumbar puncture	Practical skills	CC
K 01		the student actively participates in the diagnostic process, and takes part in the therapy estimation	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

Social competences: 5

Student's amount of work (balance of ECTS points)

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	31
2. Online learning hours (e-learning):	59
3. Student's own work (self-study):	103
Total student's workload	193
ECTS points for module/course	6,5
Comments	

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Lectures

1. Structural basis of nervous system's function.- 2h
2. Developmental disorders of nervous system. Pyramidal syndromes. .- 2h
3. Basis of neuropediatrics: cerebral palsy, hereditary disorders. .- 2h
4. Frontal, temporal, occipital, and parietal lobes' lesions. .- 2h
5. Extraparalymidal syndromes (parkinsonism, Huntington chorea, dystania) .- 2h
6. Headaches (migraine, tension-type headache), secondary headaches, brain tumors. .- 2h
7. Vascular diseases of central nervous system.- 2h
8. Dementia (Alzheimer disease, vascular dementia, secondary and reversible dementia). .- 2h
9. Demyelinating disorders (multiple sclerosis – diagnosis, treatment). .- 2h
10. Epilepsy – classification, types, treatment. Coma, brain death. .- 2h
11. Neuromuscular and autonomic disorders: diagnosis, treatment. .- 3 h
12. Cognitive dysfunctions(aphasia, agnosia, apraxia). .- 2,5h

Emotions, memory. Autonomic disfunction. .- 2,5h

Seminars



- 1.
- 2.
- 3.

Practical classes

Winter semester:

1. Interview. Examination of head, cranial nerves I, II, III, IV and VI.- 4h
2. Examination of cranial nerves V,VII, VIII, cerebellopontine angle syndrome. .- 4h
3. Examination of cranial nerves IX,X,XI,XII, bulbar and pseudobulbar syndromes.- 4h
4. Examination of limbs and trunk, radicular and meningeal signs. .- 4h
5. Cognitive impairment examination: aphasia, apraxia, agnosia. Examination of comatose patient, coma and brain death.- 4h
6. Symptoms of central and peripheral motor pathway lesions, symptoms of spinal cord lesions: vertical and horizontal lesions, sensory pathway lesions. .- 4h
7. Cerebellar and extrapyramidal symptoms.- 4h
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

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 dysfunctions, 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 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)

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.

Grade:	Criteria (only for courses/modules ending with an examination)
Very Good (5.0)	knowledge and skills of neurological issues above-standard
Good Plus (4.5)	knowledge and skills as above, not very important shortages
Good (4.0)	knowledge and skills of basic neurological issues, without ability to present extended knowledge and skills
Satisfactory Plus (3.5)	knowledge and skills are only basic, the interpretation of neurological phenomena is correct
Satisfactory (3.0)	knowledge and skills are minimal without making a mistake of the basic neurological meaning
	Criteria (only for courses/modules ending with e credit)
Credit	Does not apply to the Faculty of Medicine

Grade:	Criteria (examination evaluation criteria)
Very Good (5.0)	knows answers for all questions previously made available, with contents in courted textbooks and lectures, the knowledge is above-standard
Good Plus	knowledge and skills as above, not very important shortages



(4.5)	
Good (4.0)	knows basic neurological issues, without ability to present extended knowledge
Satisfactory Plus (3.5)	knowledge is only basic, the interpretation of neurological phenomena is correct
Satisfactory (3.0)	minimal neurological knowledge without making a mistake of the basic neurological meaning
Unit realizing the subject	Department of Neurology
Unit address	Borowska 213, 5-556 Wrocław
Telephone	+48 71 734 31 00
E-Mail	slawomir.budrewicz@umed.wroc.pl

Person responsible for module	Prof. Sławomir Budrewicz
	+ 48 71 734 31 00
	slawomir.budrewicz@umed.wroc.pl
Coordinator	
Telephone	
E-Mail	

List of persons conducting specific classes				
Full name	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Anna Pokryszko-Dragan	MD, PhD, post-doctoral	neurology	physician	Lectures, clinical classes
Magdalena Koszewicz	MD, PhD, post-doctoral	neurology	physician	Lectures, clinical classes
Marta Nowakowska-Kotas	MD, PhD	neurology	physician	Lectures, clinical classes
Mieszko Zagrajek	MD, PhD	neurology	physician	Lectures, clinical classes
Ewa Koziorowska-Gawron	MD, PhD	neurology	physician	Lectures, clinical classes
Justyna Chojdak-Łukasiewicz	MD, PhD	neurology	physician	Lectures, clinical classes
Justyna Oziom	Graduate student	neurology	physician	Clinical classes
Jakub Ubysz	Graduate student	neurology	physician	clinical classes

Paulina Papier

Graduate student

Date of Syllabus development

10.05.2020 correction 06.10.2020.....

Syllabus developed by

Koszewicz
.....
Magdalena Koszewicz
SPECJALISTA NEUROLOG
50.3758



UNIwersYTET MEDYCZNY
IM. PIASTÓW ŚLĄSKICH WE WROCŁAWIU

Appendix
to Resolution No. 2186
of Senate of Wrocław Medical University
of 1 July 2020

Uniwersytet Medyczny we Wrocławiu
KATEDRA NEUROLOGII
Klinika Neurologii
ul. Borowska 213, 50-556 Wrocław
tel. 71 734 31 00, faks: 71 734 31 09

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
Faculty of Medicine
Vice-Dean for Quality
prof. Beata Szymczanska, PhD

