



Syllabus for academic year: 2021/2022													
Training cycle: 2017/2018 -2022/2023													
Description of the course													
Course	Neurology											Group of detailed education results	
	Group code	E											Group name
												General Clinical Sciences (Non-Surgical)	
Faculty	Faculty of Medicine												
Major	medicine												
Level of studies	<input checked="" type="checkbox"/> uniform magister studies <input type="checkbox"/> 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies												
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time												
Year of studies	V						Semester:	<input checked="" type="checkbox"/> winter <input checked="" type="checkbox"/> summer					
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / optional												
Language of study	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English												
Number of hours													
Form of education													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Winter semester: 30 h													
Department of Neurology (Dep. in charge of the course)													
Direct (contact) education ¹					30								
Distance learning ²													
Summer semester: 60 h													
Department of Neurology (Dep. in charge of the course)													

¹ Education conducted with direct participation of university teachers or other academics

² Education with applied methods and techniques for distance learning



Direct (contact) education	28				32								
Distance learning													
TOTAL Department of Neurology per year: 90 h													
Department of Neurology (Dep. in charge of the course)													
Direct (contact) education	28				62								
Distance learning													
<p>Educational objectives (max. 6 items)</p> <p>C.1. Getting students familiar with methodology of neurological examination, diagnostic procedures in central and peripheral nervous system diseases.</p> <p>C.2. Getting students familiar with different groups of neurological disorders and therapeutic possibilities according to the newest scientific data.</p> <p>C.3. Practical application of the theoretical knowledge.</p> <p>C.4. Development social competences needed to practice the medical profession, in accordance with graduate's profile.</p>													
Education result for course in relation to verification methods of the intended education result and the type of class:													
Number of detailed education result	Student who completes the course knows/is able to				Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>							
E.W.13	In terms of knowledge the graduate knows and understands basic neurological symptom clusters;				Oral presentation, test, practical examination, theoretical examination (oral)	L, CC							
E.W.14	<p>In terms of knowledge the graduate knows and understands causes, symptoms, principles of diagnosis and therapeutic management of the most common diseases of the nervous system, including:</p> <ol style="list-style-type: none"> 1. headache, migraine, tension-type headache and headache syndromes, and V nerve neuralgia 2. cerebrovascular diseases, in particular stroke, 3. epilepsy 4. infections of the nervous system, in particular meningitis, lyme disease, herpes simplex encephalitis, neurotransmission diseases, 5. dementias, in particular Alzheimer's disease, frontotemporal dementia, vascular dementia and other dementia syndromes, 6. basal ganglia diseases, in particular Parkinson's disease, 7. demyelinating diseases, in particular multiple sclerosis, 8. diseases of the neuromuscular system, in particular amyotrophic lateral sclerosis and sciatica, 				Oral presentation, test, practical examination, theoretical examination (oral)	L, CC							



	9. craniocerebral trauma, in particular concussion		
E.U.1.	In terms of skills the graduate is able to conduct anamnesis with an adult patient	Oral presentation, practical examination	CC
E.U.3.	In terms of skills the graduate is able to conduct a complete and focused physical examination of an adult patient	Oral presentation, practical examination	CC
E.U.7.	In terms of skills the graduate is able to assess the general condition, state of consciousness and awareness of the patient	Oral presentation, practical examination	CC
E.U.13	In terms of skills the graduate is able to assess and describe the somatic and psychological state of the patient	Oral presentation, practical examination	CC
E.U.14	In terms of skills the graduate is able to . recognize immediate life-threatening conditions	Oral presentation, practical examination	CC
E.U.16	In terms of skills the graduate is able to plan diagnostic, therapeutic and preventive procedures	Oral presentation, practical examination	CC
E.U30	In terms of skills the graduate is able to assist in performing the following medical procedures and treatments – lumbar puncture	Practical skills	CC
E.U38	maintain patient medical records	Practical skills	CC

* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

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

Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	90
2. Number of hours of distance learning:	
3. Number of hours of student's own work:	103
4. Number of hours of directed self-study	n/a
Total student's workload	193
ECTS points for course	6,5

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. Extrapyramidal 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

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

Seminars

1.

2.

3.

ect.

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.

ect.

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



1. Mattle H., Mumenthaler M. Fundamentals of Neurology. Thieme, 2016
2. Burneo J., et al. Neurology. Springer, New York, 2011
3. Weiner H. L., Levitt L. P.: Neurology, William and Wilkins, 2008

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

Preliminary conditions: (minimum requirements to be met by the student before starting the course)
Credits for previous subjects: anatomy, physiology, biochemistry, histopathology, basics of internal medicine, radiology.

Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the 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)

Attention! Attendance can not be a condition for passing the course

Participation in all classes (100%) - each absence could be made up for the whole winter/summer semester during classes with other group, and the teachers' duties.

The student must know all issues, get credit in the form of the practical examination, during which the student performs the task on his own, correctly interprets the results, draws diagnostic conclusions, proposes diagnostics and therapy. The student is not allowed to proceed the oral exam without getting credit of the practical exam.

The oral exam includes assessment of: the knowledge of the neurological issues, inference, substantive and terminological mistakes, range and fluency of the statement.

Grade:	Criteria for courses ending with a grade ³
Very Good (5.0)	Performs the task of his own, correctly interprets their results and draws diagnostic conclusions, proposes further diagnostic procedures and therapy.
Good Above (4.5)	Performs the task of his own, correctly interprets their results, but needs help in drawing conclusions, planning the further diagnostic procedures and therapy.
Good (4.0)	Performs the task of his own, interprets their results with minor mistakes and corrects them, needs help in drawing conclusions, planning the further diagnostic procedures and therapy.
Satisfactory Plus (3.5)	Partly performs the tasks, interprets their results with minor mistakes and corrects them, needs help in drawing conclusions, planning the further diagnostic procedures and therapy.
Satisfactory (3.0)	Partly performs the tasks, interprets their results with minor mistakes, not all mistakes can correct, needs a lot of help in drawing conclusions, planning the further diagnostic procedures and therapy
	Criteria for courses ending with a credit³
Credit	

Grade:	Criteria for exam ³
Very Good (5.0)	Full knowledge of the neurological issues, fluent and range statement without substantive and terminological mistakes, independent inference and summary of the statement.
Good Above (4.5)	Knowledge of the neurological issues, fluent statement without important, substantive and terminological mistakes, correct inference and summary of the statement.

³ The verification must cover all education results, which are realized in all form of classes within the course



Good (4.0)	Knowledge of the neurological issues, full statement after the leading questions, without important, substantive and terminological mistakes, satisfactory inference and summary of the statement.
Satisfactory Plus (3.5)	Incomplete knowledge of the neurological issues, needs leading questions, substantive and terminological mistakes which can correct with help or independently, satisfactory inference and summary of the statement.
Satisfactory (3.0)	Incomplete knowledge of the neurological issues, needs leading questions, substantive and terminological mistakes, is not able to correct them all, incomplete inference and summary of the statement.

Department in charge of the course:	Department of Neurology
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Person in charge for the course:	Dr hab. Sławomir Budrewicz, Prof. UM
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List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Anna Pokryszko-Dragan	MD, PhD, post-doctoral, Prof.	medical sciences	physician	lectures, clinical classes
Magdalena Koszewicz	MD, PhD, post-doctoral	medical sciences	physician	lectures, clinical classes
Marta Nowakowska-Kotas	MD, PhD	medical sciences	physician	lectures, clinical classes
Mieszko Zagrajek	MD, PhD	medical sciences	physician	lectures, clinical classes
Ewa Kozirowska-Gawron	MD, PhD	medical sciences	physician	lectures, clinical classes
Justyna Chojdak-Łukasiewicz	MD, PhD	medical sciences	physician	lectures, clinical classes
Monika Służewska	MD, PhD	medical sciences	physician	clinical classes
Paulina Papier	Graduate student	medical sciences	physician	clinical classes
Jakub Ubysz	Graduate student	medical sciences	physician	clinical classes
Justyna Korbecka	Graduate student	medical sciences	physician	clinical classes

Date of Syllabus development
26.06.2021

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Syllabus developed by

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Signature of Head(s) of teaching unit(s)

Uniwersytet Medyczny we Wrocławiu
KATEDRA NEUROLOGII
KLINIKA NEUROLOGII
kierownik

dr hab. Sławomir Budrewicz, prof. nadzw.



Dean's signature

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Wrocław Medical University
Faculty of Medicine
Vice Dean for Quality Studies
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prof. Beata Wdźwieżarczyńska, PhD

