



Syllabus for academic year: 2021/2022													
Training cycle: 2016/2017 – 2021/2022													
Description of the course													
Course	Practical Clinical Teaching – chosen specialty: 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	X uniform magister studies												
Form of studies	X full-time <input type="checkbox"/> part time												
Year of studies	VI						Semester:	<input type="checkbox"/> winter X summer (April/May)					
Type of course	X obligatory												
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:													
..... (Dep. in charge of the course)													
Direct (contact) education ¹													
Distance learning ²													
Summer semester:													
Department of Neurology													
Direct (contact) education					180								
Distance learning													
TOTAL per year:													
Department of Neurology													
Direct (contact) education					180								
Distance learning													

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

² Education with applied methods and techniques for distance learning



Educational objectives (max. 6 items)			
1). Getting students familiar with patients' conduction in the neurological department, with subjective and objective neurological examination, diagnostic and therapeutic procedures in the central and peripheral nervous system.			
2). Getting students familiar with basic knowledge of neurophysiological examinations (EEG, EMG, EP).			
3). Practical abilities to conduct patient's medical documentation in the neurological department, and for national therapeutic programs.			
4). Development social competences needed to practice the medical profession, in accordance with graduate's profile.			
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>
EU 1	Conducts medical history with adult patient	Oral presentation, practical examination	CC
EU 3	Conducts the whole and directed physical examination	Oral presentation, practical examination	CC
EU 7	Estimates general clinical status, status of consciousness and awareness of the patient	Oral presentation, practical examination	CC
EU 13	Estimates somatic and psychiatric status of the patient	Oral presentation, practical examination	CC
EU14	Recognizes state direct threat to life	Oral presentation, practical examination	CC
EU15	Recognizes abuse state after alcohol, narcotics, and other	Oral presentation, practical examination	CC
EU16	Plans diagnostic, therapeutic and profilactic procedures	Oral presentation, practical examination	CC
EU17	Conducts analysis of side effects, and drugs' interactions	Oral presentation, practical examination	CC



EU24	Interprets laboratory results, identifies the causes of the deviations	Oral presentation, practical examination	CC
EU25	Conducts nutritional therapy (enteral, and parenteral nutrition)	Oral presentation, practical examination	CC
E.U29	perform basic medical procedures and treatments including: <ol style="list-style-type: none">1. measurement of body temperature (surface and deep), heart rate measurement, non-invasive blood pressure measurement,2. monitoring of vital signs with a cardiomonitor, pulse oximetry,3. spirometric examination, oxygen treatment, support and mechanical ventilation,4. inserting an oropharyngeal tube,5. intravenous, intramuscular and subcutaneous injections, peripheral venous cannulation, collection of peripheral venous blood, collection of blood for culture, collection of arterial blood, collection of arterialised capillary blood,6. taking nasal, throat and skin swabs,7. bladder catheterisation in women and men, gastric probing, gastric lavage, enema,8. standard resting electrocardiogram with interpretation, electrical cardioversion and cardiac defibrillation,9. simple strip tests and blood glucose measurement;		
E.U 30	assist in performing the following medical procedures and treatments: <ol style="list-style-type: none">1. transfusion of blood and blood products,2. the drainage of the pleural cavity,3. the pericardiocentesis,4. the puncture of the peritoneal cavity,5. the spinal tap,6. the fine-needle biopsy,7. the epidermal tests8. the intradermal and the scarification tests and interpreting their results;		



EU32	Plans specialistic consultations	Oral presentation, practical examination	CC
EU37	Recognizes agony, states the death	Oral presentation, practical examination	CC
EU38	Conducts medical documentations	Oral presentation, practical examination	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:	180
2. Number of hours of distance learning:	n/a
3. Number of hours of student's own work:	90
4. Number of hours of directed self-study	n/a
Total student's workload	270
ECTS points for course	12,0

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 – n/a

Seminars – n/a

Classes

1. Subjective and objective neurological examination
2. Planning of therapeutic procedures, and specialistic consultations
3. Interpretation of diagnostic procedures
4. Planning, and monitoring therapy
5. Conduction of medical documentations
6. Patient with stroke – conduction in the stroke unit
7. patient with chronic neurological disorders (multiple sclerosis, Parkinson's disease, myasthenia gravis, radiculopathy), national therapeutic programs
8. Electroencephalography – basic knowledge of performing, and results' interpretation
9. Multimodal evoked potentials - basic knowledge of performing, and results' interpretation
10. Electromyography and neurography - basic knowledge of performing, and results' interpretation
11. Ultrasonography in neurology - basic knowledge of performing, and results' interpretation



12. Neuropsychological examination - basic knowledge of performing, and results' interpretation

Other – n/a

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 20021.

Preliminary conditions: (minimum requirements to be met by the student before starting the course)

Credits for previous subjects, among others for neurology.

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

Active participation in classes with the neurological patients, in the neurophysiological tests (EEG, EMG, PW) and neurimaging (USG, MR, CT), perfecting the skills of neurological examination – practical test in the direct contact. The student gets the credit when independently performs the task, correctly interprets the results, draws diagnostic conclusions, proposes diagnostics and therapy. Each absences could be made up during teachers' duties or as a preparation of presentation according the student's best interest .

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	

Department in charge of the course:	Department of Neurology Wrocław Medical University
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³ The verification must cover all education results, which are realize in all form of classes within the course



Person in charge for the course:	Dr hab. Sławomir Budrewicz			
Telephone:	+48717343100			
E-Mail:	slawomir.budrewicz@umed.wroc.pl			
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	clinical classes
Magdalena Koszewicz	MD, PhD, post-doctoral	medical sciences	physician	clinical classes
Marta Nowakowska-Kotas	MD, PhD	medical sciences	physician	clinical classes
Mieszko Zagrajek	MD, PhD	medical sciences	physician	clinical classes
Ewa Koziorowska-Gawron	MD, PhD	medical sciences	physician	clinical classes
Justyna Chojdak-Łukasiewicz	MD, PhD	medical sciences	physician	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.....

Syllabus developed by

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dr hab. med. Magdalena Koszewicz
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Signature of Head(s) of teaching unit(s)

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Dean's signature

Wrocław Medical University
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