

Neurology

Educational subject description sheet

Basic information

Department Faculty of Medicine Field of study Medical Program Study level long-cycle master's degree program Study form full-time Education profile general academic Disciplines Medical science Subject related to scientific research Yes		Didactic cycle 2016/17 Realization year 2019/20 Lecture languages English Block obligatory for passing in the course of studies Mandatory obligatory Examination examination Standard groups C. Preclinical course, E. Clinical non-procedural medical disciplines
Subject coordinator	Katarzyna Sawczyńska	
Lecturer	Agnieszka Słowik, Marcin Wnuk, Wojciech Turaj, Jakub Antczak, Marta Banach, Magdalena Bosak, Małgorzata Dec-Ćwiek, Tomasz Dziedzic, Jeremiasz Jagieła, Aleksandra Klimkowicz-Mrowiec, Anna Krygowska-Wajs, Monika Marona, Joanna Pera, Karolina Porębska, Elżbieta Trąbka-Janik, Dorota Włoch-Kopeć, Elżbieta Klimiec-Moskał, Paweł Łatacz, Magdalena Władysiuk, Dariusz Adamek, Katarzyna Sawczyńska	
Periods Semester 7, Semester 8	Examination examination Activities and hours lecture: 10, seminar: 34, classes: 46	Number of ECTS points 7.0

Goals

C1	1. The ability of taking medical history and performing neurological examination allowing to identify life-threatening conditions and to make decisions about preliminary diagnosis of the patient's symptoms.
C2	2. Gaining knowledge about frequent and important (from epidemiological and social point of view) diseases of the nervous system.
C3	3. Gaining knowledge about neurological terminology, methods used for diagnosing nervous system disorders and treatment of chronic neurological diseases, which will allow future collaboration with a neurologist.
C4	4. Gaining experience in contact with patients with nervous system disorders.

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	causes, symptoms, principles of diagnosis and therapeutic management in the most common diseases of the nervous system, including: 1) headaches: migraines, tension headaches and headache syndromes and neuralgia of the nerve V, 2) cerebral vascular diseases, in particular stroke, 3) epilepsy, 4) infections of the nervous system, in particular meningitis, borreliosis, herpetic encephalitis, neurotransmission diseases, 5) dementia, in particular: Alzheimer's disease, frontal dementia, vascular dementia and other dementia syndromes, 6) basal ganglia diseases, Parkinson's disease in particular, 7) demyelinating diseases, multiple sclerosis in particular, 8) diseases of the neuromuscular system, lateral atrophic sclerosis and sciatic neuralgia in particular, 9) craniocerebral injuries, cerebral palsy in particular	E.W14	test, oral credit
Skills - Student can:			
U1	carry out a medical history with an adult patient	E.U1	classroom observation
U2	conduct a full and targeted physical examination of an adult patient	E.U3	classroom observation
U3	assess the general condition, state of consciousness and awareness of the patient	E.U7	classroom observation, oral credit
U4	plan diagnostic, therapeutic and prophylactic procedures	E.U16	classroom observation, oral credit
U5	recognize immediate life-threatening conditions	E.U14	classroom observation
Social competences - Student is ready to:			
K1	to establish and maintain deep and respectful contact with patients and to show understanding for differences in world views and cultures	O.K1	classroom observation
K2	to be guided by the well-being of a patient	O.K2	classroom observation
K3	use objective sources of information	O.K7	classroom observation

Calculation of ECTS points

Activity form	Activity hours*
lecture	10
seminar	34
classes	46
preparation for classes	40
preparation for classes	40
preparation for examination	40
Student workload	Hours 210
Workload involving teacher	Hours 90
Practical workload	Hours 46

* hour means 45 minutes

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Nervous system disorders	W1	lecture
2.	Stroke	W1	lecture
3.	Alzheimer's disease and other causes of dementia	W1	lecture
4.	Parkinson's disease and other extrapyramidal system disorders	W1	lecture
5.	Pain in neurology	W1	lecture
6.	Bedside teaching	U1, U2, U3, U4, U5, K1, K2, K3	classes
7.	Patophysiology of the motor system.	W1	seminar
8.	Patophysiology of the sensory nervous system. Cranial nerves.	W1	seminar
9.	Auxiliary tests in neurology - part I	W1	seminar
10.	Auxiliary tests in neurology - part II	W1	seminar
11.	Disorders of consciousness and higher brain functions	W1	seminar
12.	Multiple sclerosis	W1	seminar
13.	Epilepsy	W1	seminar
14.	Neuropathies	W1	seminar

15.	Neuromuscular disorders	W1	seminar
16.	Neurological symptoms in internal medicine	W1	seminar
17.	Neuroinfections	W1	seminar
18.	Sleep disorders. Autonomic system disorders.	W1	seminar
19.	Cerebellum and spinal cord disorders. Vertigo.	W1	seminar
20.	Life-threatening conditions in neurology	W1	seminar
21.	Neuropathology	W1	seminar
22.	Involuntary movements	W1	seminar

Course advanced

Teaching methods:

case study, clinical classes, discussion, lecture

Activities	Examination methods	Credit conditions
lecture	test	mandatory attendance, preparation for classes, active participation in classes
seminar	test	mandatory attendance, preparation for classes, active participation in classes
classes	classroom observation, test, oral credit	mandatory attendance, preparation for classes, active participation in classes

Additional info

The students are allowed 1 excused absence at bedside teaching and 1 excused absence in seminars. Additional absences have to be made up for either by attending medical shifts or writing an essay on a recommended topic. The passing score for the final test is 60% + 1 point, the grades are proportional to the final result.

Entry requirements

Passed course in Pharmacology and Radiology.
Neurology exam can be attended with passed exams in Pharmacology and Radiology.
Attending classes is obligatory.

Literature

Obligatory

1. Fuller G., Neurological Examination Made Easy. Churchill Livingstone, London New York Oxford Philadelphia St Louis Sydney Toronto last edition
2. Aminoff M.J., Greenberg D.A., Simon R.P., Clinical Neurology LANGE Medical Books, McGraw-Hill, last edition
3. Yogarajah M. Crash Course Neurology. Mosby, last edition

Optional

1. Training materials published on the website of The Dept of Neurology (www.neurologia.wl.uj.edu.pl) - handouts from the lectures and seminars - summary of neurological syndromes

Standard effects

Code	Content
E.U1	carry out a medical history with an adult patient
E.U3	conduct a full and targeted physical examination of an adult patient
E.U7	assess the general condition, state of consciousness and awareness of the patient
E.U14	recognize immediate life-threatening conditions
E.U16	plan diagnostic, therapeutic and prophylactic procedures
E.W14	causes, symptoms, principles of diagnosis and therapeutic management in the most common diseases of the nervous system, including: 1) headaches: migraines, tension headaches and headache syndromes and neuralgia of the nerve V, 2) cerebral vascular diseases, in particular stroke, 3) epilepsy, 4) infections of the nervous system, in particular meningitis, borreliosis, herpetic encephalitis, neurotransmission diseases, 5) dementia, in particular: Alzheimer's disease, frontal dementia, vascular dementia and other dementia syndromes, 6) basal ganglia diseases, Parkinson's disease in particular, 7) demyelinating diseases, multiple sclerosis in particular, 8) diseases of the neuromuscular system, lateral atrophic sclerosis and sciatic neuralgia in particular, 9) craniocerebral injuries, cerebral palsy in particular
O.K1	to establish and maintain deep and respectful contact with patients and to show understanding for differences in world views and cultures
O.K2	to be guided by the well-being of a patient
O.K7	use objective sources of information