

SYLLABUS

INTERNATIONAL EUROPEAN
UNIVERSITY



SCHOOL OF
MEDICINE

Neurology

2021



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Subjet 

 Neurology

Teacher 



Teacher profile 



Consultations

Intramural consultations  the second Thursday of the month from 15:00 to 16:00

Online consultations  the third Friday of the month from 15:00 to 16:00

Contact phone 



E-mail 



Subjet page 



Form of final control	final test	differentiated credit	exam
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1 Short abstract of the subject

Neurology is an academic discipline that occupies an important place in the cycle of general clinical disciplines, in which specialists are trained who specialize in the structural and functioning features of various parts of the nervous system.

2 Prerequisites for studying the subject

Neurology as a subject matter is based on the study by students of medical biology, biological and bioorganic chemistry, histology, physiology and pathological physiology, human anatomy and pathological anatomy and is integrated with these disciplines; is based on the study by students of propaedeutic disciplines of a therapeutic profile, pharmacology, radiology and integrates with these disciplines; integrates with other clinical disciplines (internal medicine, neurosurgery, oncology, psychiatry, medical genetics, etc.); is undergoing differentiation - the formation of separate areas of neurological science, which have independent international organizations: - epileptology; cerebrovascular pathology; neuromuscular diseases; migraine and headache parkinsonology; the doctrine of multiple sclerosis and demyelinating diseases; degenerative - dystrophic diseases of the brain.

3 The purpose and objectives of the subject

The purpose of teaching the subject "Neurology" is to improve knowledge about the structural and functioning of various parts of the nervous system, mastering the technique of studying the neurological status, studying etiopathogenetic features, clinical manifestations, differential diagnostic signs and modern directions and algorithms for the treatment of various diseases of the nervous system.

Objectives of the subject:

- to improve knowledge about the anatomical and functional features and the main syndromes of lesions of the pyramidal, extrapyramidal, cerebellar, sensory systems, cranial nerves, integrative systems of the brain and autonomic nervous system;
- master the technique of studying the neurological status;
- get acquainted with the main research methods in neurology (EEG, USDG of cerebral vessels, ENMG, evoked potentials, CT, MRI, etc.), their advantages and diagnostic capabilities;
- learn to independently examine patients with neurological pathology with the preparation of a medical history, establishment of topical and clinical neurological diagnoses;
- to study the etiology, pathogenetic features, clinical manifestations, diagnostic and differential diagnostic signs, modern trends and methods of treatment of various diseases of the nervous system.

4 Educational outcomes

As a result of studying the subject the student should:

Be able:

- To conduct surveys and examinations of patients and analyze their results in the clinic of nervous diseases. Analyze the results of basic laboratory and instrumental research methods. Identify the leading symptoms in the clinic of nervous diseases.
- To evaluate information on the diagnosis in the health care institution, its unit, using knowledge about the person, his organs and systems, based on the results of laboratory tests;



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4 Educational outcomes

- To identify leading clinical symptoms; according to standard methods, using preliminary data of the patient's anamnesis, data of the patient's examination, knowledge about the person, his organs and systems, to establish a probable syndromic preliminary clinical diagnosis. To collect information about the general condition of the patient, based on the results of laboratory and instrumental studies to evaluate information about the diagnosis.

5 ECTS credits

3 credits / 90 academic hours

6 The structure of the subject

Topic	Amount of hours			
	Lectures	Practical classes (seminars)	Student's Individual Work	Individual work
Section 1 "General Neurology"				
Topic 1. The idea of reflex and reflex arc. Pathological reflexes, research methodology.		3	1	
Topic 2. Arbitrary movements and their violations. Pyramid system. Cortico-nuclear and cortico-spinal pathways. Symptoms of central and peripheral paresis, pathogenesis of symptoms.	1	3	2	
Topic 3. Symptomatic complexes of movement disorders during exercise of various levels of the cortico-muscular tract. Extrapyramidal system and syndromes of its defeat. Cerebellum. lesion syndromes cerebellum. Types of ataxia.	1	3	2	
Topic 4. Sensitive system and symptoms of its defeat. Types and types of sensitivity disorders. Practical experience.		3	2	
Topic 5. Pathology of olfactory and visual analyzers. Syndromes of oculomotor nerve damage.		3	1	
Topic 6. Trigeminal, facial, parietal-curl nerves and syndromes of their defeat.	1	3	2	



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Структура дисципліни

Topic	Amount of hours			
	Lectures	Practical classes (seminars)	Student's Individual Work	Individual work
Topic 7. Pathology of IX-XII pairs of cranial nerves. Bulbar and pseudobulbar syndromes. Anatomical and physiological data, pathology and methods of research of the autonomic nervous system.		3	2	
Topic 8. Anatomical and physiological data, methods of studying cortical functions. Syndromes of lesions and irritation of the cortex. Disorders of higher brain functions. Liquor diagnostics. Meningeal syndrome. Functional diagnosis of diseases of the nervous system	1	3	3	
Together in the section of subject 1 "General Neurology"	4	24	15	
Section 2 of the subject "Special Neurology"				
Topic 9. Independent curation with compiling a medical history. Vascular diseases of the brain and spinal cord. Transient ischemic attacks.	2	3	2	
Topic 10. Epilepsy and non-epileptic paroxysmal conditions	2	3	4	
Topic 11. Occupational and domestic neurointoxication. Defeat of the nervous system under the influence of physical factors. Neurological aspects of traumatic brain injury. Spinal cord injury		3	2	
Topic 12. Meningitis. Encephalitis. Arachnoiditis. Poliomyelitis. Acute myelitis. Neurosyphilis. Neurological manifestations of polymyositis-dermatomyositis. Amyotrophic lateral sclerosis. Demyelinating diseases	2	3	4	
Topic 13. Lesions of the nervous system in the presence of HIV infection. Tuberculosis of the nervous system. Neuroberreliosis. Parasitic diseases of the nervous system, prion infections.		3	2	

6 Структура дисципліни

Topic	Amount of hours			
	Lectures	Practical classes (seminars)	Student's Individual Work	Individual work
Topic 14. Diseases of the peripheral nervous system.		3	3	
Topic 15. Perinatal lesions of the nervous system. Congenital defects of the spine and spinal cord. Syringomyelia. Hereditary and degenerative diseases of the nervous system.		3	3	
Total	10	45	35	

7 Signs of cours

Training period	Semester	International disciplinary integration	Year of study	Cycles: general training / vocational training / free choice
1 semester	VIII	yes	4 year	General training cycle

8 Assessment and Requirements

The current success of students is assessed on a 4-point scale (2; 3; 4; 5) on each practical, taking into account the approved assessment criteria for the subject. The student must receive a grade from each topic for further conversion of grades into points on a multi-point (200-point) scale.

Criteria for assessment of the current educational activity:

Excellent («5») – the student correctly answered 90-100% of the A-format tests (from the Krok-2 database). He solves situational problems of increased complexity, is able to summarize the material.

Good («4») - the student correctly answered 70-89% of the tests of format A. He has the necessary practical skills and techniques to perform them in excess of the required minimum.

Satisfactory («3») - the student correctly answered 50-69% of the A format tests. He has only the obligatory minimum of research methods.

Unsatisfactory («2») - the student correctly answered 50% of the A format tests. During the answer and demonstration of practical skills he makes significant, gross mistakes.

Assessment of independent work of students in preparation for classroom practical classes is carried out during the current control of the topic in the relevant classroom.

The semester credit is assessed on a two-point scale (credited / not credited) and a 200-point scale by determining the arithmetic mean of current grades for each practical lesson on a 4-point scale, and its subsequent conversion into points on a 200-point scale. The minimum number of points that a student must score is 120.

Final control of knowledge in the discipline "Neurology" is carried out in the form of differentiated credit. Differentiated credit in the discipline is conducted in the form of an oral examination in accordance with the questions of differential credit.

<https://ie.u.edu.ua/docs/rate-of-study.pdf>



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9 The conditions of access to the final control

Students who have completed all types of work, tasks provided for in the curriculum for the semester in accordance with the subject, attended all classes provided for in the curriculum, written and passed a patient record and have an average score for current academic activity of at least "3" are allowed to semester final control. (72 points on a 120-point scale).

<https://ieu.edu.ua/docs/rate-of-study.pdf>

10 Subject policy

To succeed in studying, you should be actively involved in the training process, not miss lectures, take a responsible approach to preparations for practical classes. Attend classes on schedule, promptly make up missed practical training. During classes, you should wear a doctor's gown, outdoor clothes should be put off.

For students:

- to eliminate the possibility to use mobile phones, tablets or any other mobile devices during the class, to prevent cheating and plagiarism;
- students should not miss lectures and practical training, should inform the dean's office of absence for valid reasons in order to obtain the permit to make up missed classes; coming late is undesirable;
- to ensure cooperation between the lecturer and students and adhere to the principle of solidarity while learning the discipline;
- to address the lecturer regarding the assistance in organization and consultation on scientific, exploration and research activities;
- to take part in scientific groups;
- topics of the academic discipline are considered from the perspective of their practical application and bioethical capability;
- to wear doctor's gowns during classes.

For lecturers:

- fulfillment of the syllabus is obligatory;
- coming late to lectures, seminars and practical training is not allowed;
- the discipline policy implies objective assessment of knowledge and skills;
- any forms of corruption activities are forbidden;
- prejudiced attitude and discrimination regardless of the race, ethnic origin and religious beliefs are not allowed.

11 Absence and Post-Deadline Tasks Policy

A student who, for valid documented reasons, was not subject to current control of the masses, the right to undergo current control within two weeks after returning to school.

A student who was absent from class without viable reason did not take part in monitoring activities, did not liquidate academic debt, is not allowed to the final semester control of knowledge in this subject, and on the day of passing the exam, the scientific and pedagogical worker gives the mark "rejected" in the examination sheet. Re-delivery of a differentiated credit for a subject is assigned subject to the fulfillment of all types of educational, independent (individual) work, provided for by the working curriculum of subject i, is carried out in accordance with the schedule for the elimination of academic debt approved by the directorate.

<https://ieu.edu.ua/docs/050.pdf>



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12 Academic integrity policy compliance

Participants in the educational process are guided by the principles of academic compliance
<https://ie.u.edu.ua/docs/011.pdf>

13 Recommended sources of information

Basic

1. Grigorova IA Neurology: a national textbook / [ed. prof. IA Grigorova, prof. LI Sokolova]. - Kyiv: "Medicine", 2015. - 640p. - (ISBN 978- 617-505-300-3).
2. Methods of examination of a neurological patient: Textbook. way. for honey. University III-IV years Recommended by the Verkhovna Rada of NMU. O.O. Bogomolets / Ed. L.I. Sokolova, TI Ilyash. - K., 2015. - 144 p.
3. Neurology / SM Vynychuk, TI Ilyash, O. Ya. Myalovytska and others; for order. SM Vinichuk. - Kyiv: Health, 2008. - 664 p.
4. Shevaga VM Neurology: a textbook / [ed. prof. VMShevaga, prof. AV Payenok]. - Kyiv: "Medicine", 2009. - 656p.

Auxiliary

1. Vynychuk SM, Prokopiv MM Acute ischemic stroke. - Kyiv: Scientific opinion. - 2006. - 286p.
2. Golubev VL Vegetative disorders / VL Голубев, A.M. Wayne, T.G. Voznesenskaya, Vorobieva OV. - MIA, 2010.- 640p.
3. Gusev EI Neurology: a national guide / Summary. GEOTARMedia, 2014.- 688p.
4. Levin OS The main drugs used in neurology / OS Levin. - MEDpress-inform, 2014.-368 p.
5. Thomas R., Brown. Epilepsy: a clinical guide / R. Thomas, Brown. - BINOM, 2014.-280p.
6. Shtok VN Handbook for formulating the clinical diagnosis of diseases of the nervous system / VN Shtok. Stock - Medical Information Agency (MIA), 2013.-504p ..
7. Adams and Victor's Principles of Neurology 10th Edition 10th Edition / Allan Ropper, Martin Samuels, Joshua Klein NY, McGraw-Hill Education – 2014 - 1654 p.
8. Aids to the Examination of the Peripheral Nervous System, 5e 5th Edition / Michael O'Brien, LA, Saunders Ltd. – 2010 - 72 p.
9. Clinical Neurology 9/E / Michael Aminoff, David Greenberg, Roger Simon: Ph. McGrawHill Education / Medical; 9 ed. - 2015 – 448 p.
10. Comprehensive Review in Clinical Neurology: A Multiple Choice Question Book for the Wards and Boards 1 / by Esteban Cheng-Ching), Lama Chahine, Eric P. Baron, Alexander Rae-Grant TH LWW; 2011 – 730 p.
11. DeJong's The Neurologic Examination Seventh Edition / William W. Campbell NY, LWW; Seventh edition, 2012 - 830 p.
12. Localization in Clinical Neurology Sixth Edition / Paul W. Brazis, Joseph C. Masdeu, José Biller NY, LWW, 2011 - 668 p.
13. Merritt's Neurology Thirteenth Edition / Elan D. Loui, Stephan A. Mayer, Lewis P. Rowland NY, LWW – 2015 – 1200 p.
14. Neuroanatomy Through Clinical Cases, Second Edition, Text with Interactive eBook / Hal Blumenfeld // NY., Sinauer Associates – 2011 - 975 p.
15. Neurological Examination Made Easy, 5e 5th Edition / Geraint Fuller Ph., Churchill Livingstone – 2013 - 252 p.
16. Neurology for the Non-Neurologist (Weiner, Neurology for the Non-Neurologist) Sixth Edition / ed. William J. Weiner, Christopher G. Goetz, Robert K. Shin, Steven L. Lewis NY LWW -2010 - 624 p.
17. Neurology Video Textbook DVD 1st Edition / by Jonathan Howard MD / Demos Medical; 1 edition (March 15, 2013) CD



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Tips for Successful Subject Learning

If you want to be successful in this subject, you need to be a student who:

- attends classes, works hard, confident, conscious, reactive and active;
- communicates with the teacher on all issues of the curriculum;
- performs tasks in accordance with the program;
- writes essays on program topics;
- discusses topics and tasks in groups outside the classroom;
- uses Internet resources.

We wish you perseverance, determination and motivation to learn. And then success will come to you!

See you in class!

Don't forget medical gowns!