

PRIVATE HIGHER EDUCATIONAL INSTITUTION
"INTERNATIONAL ACADEMY OF ECOLOGY AND MEDICINE"
Department of Surgical Diseases with the course of Obstetrics and
Gynecology and the course of Pediatrics and Children's Infectious Diseases

SYLLABUS
EDUCATIONAL DISCIPLINE
elective course

"Current issues of neurosurgery"

LEVEL OF HIGHER EDUCATION Second (master's) level

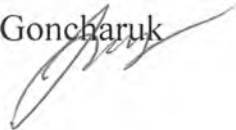
DEGREE OF HIGHER EDUCATION Master

FIELD OF KNOWLEDGE 22 Healthcare

SPECIALTY 221 Dentistry

Considered and approved at
the meeting of the Department of Surgical Diseases
with the course of Obstetrics and Gynecology and the course
of Pediatrics and Children's Infectious Diseases
Protocol № 2 from "04" XI 2020

Doc.Med.Sc., professor O.O. Goncharuk



Kyiv 2020

1. general information	
Subjects	Current issues of neurosurgery
Teacher (s)	Mischiuk A. O.
Teacher's contact phone number	+38(098)921- 37-45
Teacher's e-mail	Goncharukoo@gmail.com
Discipline format	Normative discipline
The scope of discipline	90
Link to the distance learning site	
Consultations	During the semesters in accordance with graphics
2. Discipline abstract	
<p>Neurosurgery is an applied and fundamental medical science, a practical branch of medicine that is surgery for diseases and lesions of the central and peripheral nervous system of various genesis (traumatic, tumor, infectious, parasitic, etc.), vascular pathology of the brain and spinal cord, surgery on the leading pathways and CNS centers, surgery for intractable pain syndromes and the consequences of CNS and PNS lesions of various origins. Knowledge of the basics of the clinical course of neurosurgical diseases, modern methods of diagnosis and treatment of neurosurgical patients, the ability to provide emergency care are integral components of training a modern doctor.</p>	
3. The purpose and objectives of the discipline	
<i>The purpose of studying the discipline "Current issues of neurosurgery":</i>	
<p>The purpose of teaching the course "Topical issues of neurosurgery" - to provide an expanded knowledge base, skills and experience, as well as the formation of professional judgment and independence in training a qualified physician who knows the general principles of diagnosis and treatment of major neurosurgical pathology This pathology, conducts active educational work on the prevention of neurosurgical diseases.</p> <p>The purpose of teaching neurosurgery at a medical university must meet all these requirements. 5th year students during the study of the discipline "Topical issues of neurosurgery" are taught extended data on the basics of pathogenesis, clinic, diagnosis and treatment of the most common neurosurgical diseases. The main feature of teaching is a modern approach to the coverage of the most common nosological units with a detailed analysis of modern methods of diagnosis, examination, a typical clinical picture of diseases of the nervous system in neurosurgical aspects. skills and practical skills in neurosurgery that can be used in the future practice of a general practitioner.</p> <p>The main task of teaching the discipline is to give future doctors theoretical knowledge, skills and practical skills in neurosurgery, which can be used by them in the future practice of the doctor.</p> <p>The purpose of studying the discipline "Neurosurgery" is the ultimate goals that are established on the basis of the preparation of a doctor in accordance with the block of its content module (professional and practical training) and are the basis for constructing the content of the discipline. Description of purposes formulated due to skills in the form of target tasks (actions).</p>	
<i>The objectives of studying the discipline "Current issues of neurosurgery":</i>	
<p>The main tasks of studying the discipline "Neurosurgery" are providing future doctors of theoretical knowledge, skills and practical skills in neurosurgery that can be used by them in the future practical</p>	

activity of the general practitioner.

4. Learning outcomes (competencies)

As a result of studying the discipline "Current issues of neurosurgery":

KNOW:

- • methods of examination of patients with neurosurgical pathology;
- • classification of the main types of neurosurgical pathology and their complications (traumatic brain injury, spinal cord injury, vascular pathology of the brain, tumors of the nervous system, congenital malformations of the nervous system, etc. .);
- • algorithms for providing emergency medical care for neurosurgical diseases;
- • clinic, modern methods of diagnosis and surgical treatment of patients with traumatic brain injury;
- • clinic, modern methods of diagnosis and surgical treatment of patients with spinal cord injury;
- • clinic, modern methods of diagnosis and surgical treatment of patients with peripheral nerve injury;
- • clinic, modern methods of diagnosis and surgical treatment of patients with vascular pathology of the brain and spinal cord;
- • clinic, modern methods of diagnosis and surgical treatment of patients with tumors of the central nervous system;
- • clinic, modern methods of diagnosis and surgical treatment of patients with hydrocephalus;
- • clinic, modern methods of diagnosis and surgical treatment of patients with congenital malformations of the nervous system;
- • clinic, modern methods of diagnosis and surgical treatment of patients with purulent-inflammatory volume lesions of the brain and spinal cord;
- • clinic, modern methods of diagnosis and surgical treatment of patients with epilepsy, parkinsonism, spasticity;
- • clinic, modern methods of diagnosis and surgical treatment of patients with discogenic spinal pathology;
- • clinic, modern methods of diagnosis and surgical treatment of patients with pain syndromes, degenerative diseases of the CNS and the consequences of lesions of the nervous system.

BE ABLE TO:

- • assess the neurological status of the patient (examination of active and passive movements, tone and muscle strength, tendons, perpetrators, skin reflexes).
- • to highlight and fix the leading topical syndrome and establish a clinical diagnosis;
- • To interpret the main indicators of auxiliary methods of examination in the neurological clinic (electrophysiological, ultrasonic, radiological, computer-repair);
- • independently examine patients with neurosurgical pathology with the preparation of history of the disease and the purpose of modern diagnosis and treatment, taking into account the principles of evidence-based medicine;
- • to identify signs of an urgent state of a person, under all circumstances (at home, on the street, health care institution, its subdivision), using standard physical examination methods and possible anamnesis, knowledge of man, its organs and systems, adhering to the corresponding ethical and legal norms;
- • Demonstrate the possession of the moral and deontological principles of the medical specialist and principles of professional subordination in the clinic of neurosurgery

5. Organization of the study of the discipline

The volume of the course

<i>Type of lesson</i>	<i>Total number of hours</i>	<i>90</i>
Lectures		
Seminars		20
Independent work		70

Signs of the course

Semester	Specialty	Course (year of study)	Normative / selective								
9-10	221 Dentistry	5	Normative								
<i>Course topics</i>											
<p>Content module 1. Traumatic lesions of the nervous system</p> <p>Content module 2. Tumors of the central nervous system. Hydrocephalus. Congenital malformations of the CNS</p> <p>Content module 3. Vascular diseases of the brain and spinal cord</p> <p>Content module 4. Osteochondrosis. Facial pain, neurostomatological diseases.</p> <p>Thematic plan of practical classes of the module "Topical issues of neurosurgery".</p> <ol style="list-style-type: none"> 1 Closed traumatic brain injury 2 Open traumatic brain injury 3 Spinal cord injury (CSI) 4 Traumatic injuries of the peripheral nervous system 5 Brain tumors. 6 Hydrocephalus. 7 CNS malformations. 8 Tumors of the spine and spinal cord. 9 Vascular diseases of the brain accompanied by circulatory disorders of the hemorrhagic type 10 Vascular diseases of the brain and spinal cord accompanied by circulatory disorders of the ischemic type 11 Modern conservative and surgical methods of prevention stroke 12 Pathology of the vessels of the spinal cord 13 Degenerative diseases of the spine and spinal cord. 14 Surgical treatment of osteochondrosis and its complications 15 Pain syndromes in the head and face 16 Surgical treatment of pain syndromes. 											
6. Course evaluation system											
General course evaluation system											
<p>Current control is based on the control of theoretical knowledge, skills and abilities in practical classes. The student's independent work is assessed in practical classes and is part of the final assessment of the student. Current control is carried out during classes and aims to verify the assimilation of students' learning material. Forms of current control are:</p> <ol style="list-style-type: none"> a) test tasks with the choice of one correct answer, with the definition of the correct sequence of actions, with the definition of compliance; b) individual oral examination, interview; c) solving typical situational problems; d) control of practical skills; e) solving typical tasks of diagnosis, medical care, medical evacuation, treatment and prevention. <p>Grades in the national scale ("excellent" - 5, "good" - 4, "satisfactory" - 3, "unsatisfactory" - 2), received by students, are displayed in the journals of attendance and academic group performance. Final control of learning success is carried out in the form of diff. credit (oral and test tasks). The maximum number of points that a student can score for current educational activities for admission to the PC is 120 points.</p> <p>The minimum number of points that a student must score for the current academic activity for admission to the exam is 72 points. The calculation of the number of points is based on the grades obtained by the student on the traditional (national) scale during the study of the discipline during the semester, by calculating the arithmetic mean (CA), rounded to two decimal places.</p> <p>Assessment of students' independent work. Students' independent work, which is provided by the topic of the lesson along with the classroom work, is assessed during the current control of the topic in the relevant lesson. Assimilation of topics that are submitted only for independent work is checked during the final module control.</p> <p style="text-align: center;">Table 1. Conversion of the average grade for current activities in a multi-point scale (for disciplines that end with an exam (differentiated credit))</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 12.5%;">4-point</td> <td style="width: 12.5%;">120-</td> <td style="width: 12.5%;">4-point</td> <td style="width: 12.5%;">120-point</td> <td style="width: 12.5%;">4-point</td> <td style="width: 12.5%;">120-point</td> <td style="width: 12.5%;">4-6point</td> <td style="width: 12.5%;">120-point</td> </tr> </table>				4-point	120-	4-point	120-point	4-point	120-point	4-6point	120-point
4-point	120-	4-point	120-point	4-point	120-point	4-6point	120-point				

	scale	point scale	scale	scale	scale	scale	scale										
	5	120	4,45	107	3,91	94	3,37	81									
	4,95	119	4,41	106	3,87	93	3,33	80									
	4,91	118	4,37	105	3,83	92	3,29	79									
	4,87	117	4,33	104	3,79	91	3,25	78									
	4,83	116	4,29	103	3,74	90	3,2	77									
	4,79	115	4,25	102	3,7	89	3,16	76									
	4,75	114	4,2	101	3,66	88	3,12	75									
	4,7	113	4,16	100	3,62	87	3,08	74									
	4,66	112	4,12	99	3,58	86	3,04	73									
	4,62	111	4,08	98	3,54	85	3	72									
	4,58	110	4,04	97	3,49	84	Less 3	Not enough									
	4,54	109	3,99	96	3,45	83											
	4,5	108	3,95	95	3,41	82											
<p>The maximum number of points that a student can score during the final control of the student's acquisition of knowledge is 80 points.</p> <p>Table 2. Scale of assessment of differentiated (exam) credit:</p> <table border="1"> <thead> <tr> <th>National scale</th> <th>Score scale</th> </tr> </thead> <tbody> <tr> <td>«5»</td> <td>70-80</td> </tr> <tr> <td>«4»</td> <td>60-69</td> </tr> <tr> <td>«3»</td> <td>50-59</td> </tr> </tbody> </table> <p>Assessment of the final control is considered credited if the student scored at least 60% of the maximum amount of points (for a 200-point scale - at least 50 points).</p> <p>The final number of points that the student scored in the discipline is defined as the sum of points for the current educational activity (Table 1) and for the final control (differentiated credit) (Table 2).</p>										National scale	Score scale	«5»	70-80	«4»	60-69	«3»	50-59
National scale	Score scale																
«5»	70-80																
«4»	60-69																
«3»	50-59																
Requirements for final test control	<p>The final test control is credited to the student if he demonstrates the possession of practical skills and scored at least 50 points in the test control of theoretical training.</p> <p>The maximum number of points for the final control of the student (differential test) - 80 points.</p> <p>Criteria for assessing students for final control are carried out according to the scheme:</p> <p>"2" - 0-49 points; "3" - 50-60 points; "4" - 61-70 points "5" - 71 - 80 points</p> <p>Assessment of the final test task is carried out by dividing the maximum score of the final control - 80 - by the number of test questions in the variant and multiplied by the number of correct test answers of the student.</p>																
Practical training	Module I																
Classroom work (Content module I)																	
	T 1-11	Amount - 200 (The maximum number of points that a student can score for the current educational activity, the minimum is 120 points).															
	Control work	0															
	Test	20															
	Working in pairs	30															
	Abstract	50															
	Conditions of admission to the final control	Semester control is provided in the form of credit. Provides a final grade on a 200-point scale as the sum of grades for the current control of knowledge (oral examination, tests, examination of abstracts), the results of the content module.															
7. The policy of studying the discipline																	
The organization of the educational process is carried out with the use of the European Credit Transfer																	

System (ECTS) to assess student performance. The points gained in the current survey, independent work and points of the final control are credited. This must take into account the student's presence in class and his activity during practical work. Inadmissible: absences and late classes; use of a mobile phone, tablet or other mobile devices during the lesson (except for the cases provided by the curriculum and methodical recommendations of the teacher); copying and plagiarism; untimely performance of the task, the presence of unsatisfactory assessments and more submitted theoretical and practical material.

8. Recommended literature

<p>Basza:</p>	<ol style="list-style-type: none"> 1. Romodanov AP, Mosychuk M.M .. Neurosurgery: Tutorial. - K.: "Flash", 1998. - p.: 256, IL. 2. Neurosurgery: Textbook / VI Tsimbalyuk, B.M. Luzan, I.P. Dmitryko et al.; ed. the acad. VI Tsibalyuk. - Vinnitsa: New Book, 2011.- 304 p. 3. Atlas Topic diagnostics Diseased nervous system / A.P.Romodanov, N.M. Mosychuk, D.I. Kholopchenko - High Sk., - 1987. -231C. 4. Atlas Operations at Main Mosge / A.P.Romodanov, Yu.A.Zozuly, N.M.Mosichuk, G.S. Sushkin - Moscow: Medicine, - 1986. -384 p. 5. Brotman M.K., Romodanov S.A. Early manifestations of neurochurgical diseases. - K.: Health, 1984. 6. Grigorovich K.A. Hirurgicheskoe beds are frozen nerves. - L.: Medicine, - 1981. - 302 p. 7. Gusev E.I., Konovalov A.N. etc. Neurology and neurochurgery. Trainer. - M. Medicin - 2000.- 656C :: IL. 8. Cuckoo I.S. Craniocerebral trauma: classification, clinic, diagnostics, urgent medical care // Ukrainian medical magazine. -1997.-№1.-p. 25-31. 9. Zozulya Yu.A., Polishchuk M.E. Diagnostics and therapeutic tactics in the acute period of vertebrates - spinal trauma // Bul. Ukrainian Neurosurgeon Association // - 1997.
<p>Auxiliary:</p>	<ol style="list-style-type: none"> 10. Candel E.I. The basics of stereotaxic and functional neurosurgery. - Moscow: Medicine, 1981. 11. Konovalov AN Hirurgic layer aneurysms of the brain. - Moscow: Medicine, 1975. 12. Lebedev V.V., Bykovnikov L.D. Moving on an unulpower neurosurgery. -M: Medicine. - 1987. - 336 p. 13. Loveliz AV Hurourage of spinal cord. - M: Medicine, 1990. - 352 p. 14. Mozhaev JI. et al. Neurosurgery..cher for students of medicine node. - S.-P. b: a polytechnic, - 2001.-355s.: With IL. 15. Neurology / Ed. M. Samuelas. - Moscow: Practice, 1997. -640 with. 16. Neurotravatology. Wellness / Ed. APKonovalova, L.B.L.Therman, AA Potapova Rostov N / D: Izdu "Fenecas" .- 1999, ed. - 576 p. 17. Neurosurgery: Trainer / V.I.Simbalyuk, B.N.Luzan, I.P. Dmitryko and DR; Ed. Prof. YOU. Tsibalyuk.-K.: Medicine, 2008.- 160s. 18. Nikiforov B.M., Matsko D.E. Tumors of the brain. - SPB, Peter, 2003.-320C. - (Serium "Bright Movowry").

	<p>19. Oleskevich F.V. , Oleskevich AF Neurosurgery: Operations at the main Mozge. - Minsk: Вышейшая Шк. , 1993. - 294 p.</p> <p>20. Pastor E. The basics of neurochurgery. Available for students and students of medicine knobs. Transfer from Wenger. - Budapest: Izda Gungary, - 1985. - 278C.</p> <p>21. Podachenko G.A. Course of Izbranny Lektsia on Neurosurgery: Open Cherko - Mosburg Trauma. - K.: Mariam, -1993.-28 p.</p> <p>22. Podachenko G.A. Course of Izbranny Lektsia on Neurosurgery: Traumatic intracellular bloodstream. - K.: Mariam, - 1994. - 44C.</p> <p>23. Podachenko G.A. Course of Izbranny Lektsia on Neurosurgery: Clear traumatic frustration of the repetition and spinal cord. - K.: Marriam, - 1997.- 40 p.</p> <p>24. Podachenko G.A. Course of Izbranny Lektsia on Neurosurgery: Open Cherko - Mosburg Trauma. - K.: Mariam, -1993.- 28 seconds.</p> <p>25. Polischuk N.E., Starch V.I.Ontralnaya Nazeniya Main.</p> <p>26. Romodanov AP, N.M. Mosychuk. Neurosurgery. - K.: High School, - 1990.-263C.</p> <p>27. Tsimbalyuk VI Status and prospects of renewable neurosurgery // Bul. Ukrainian Association of NeurosurgeryComins. - 1996. - Vip. 2. - C 44 - 45.</p> <p>28. Tsimbalyuk V.G, Honda O.M., Tretyak I. Neurosurgery. A course of lectures. - Kyiv, 1998.-206 p.; The publication is second, stereotyped. - Kiev, - 2000.- 256C.</p>
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Senior lecturer of the department

