

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**

**" NEUROSURGERY "**

*LEVEL OF HIGHER EDUCATION Second (master's) level*

*DEGREE OF HIGHER EDUCATION Master*

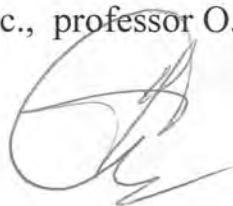
*FIELD OF KNOWLEDGE 22 Healthcare*

*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 № 1 from "21" December 2020

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



Kyiv 2020

<b>1. general information</b>	
<b>Subjects</b>	neurosurgery
<b>Teacher (s)</b>	Mischiuk A. O.
<b>Teacher's contact phone number</b>	+38(098)921- 37-45
<b>Teacher's e-mail</b>	Goncharukoo@gmail.com
<b>Discipline format</b>	Normative discipline
<b>The scope of discipline</b>	30
<b>Link to the distance learning site</b>	
<b>Consultations</b>	During the semesters in accordance with graphics
<b>2. Discipline abstract</b>	
<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>	
<b>3. The purpose and objectives of the discipline</b>	
<i>The purpose of studying the discipline "neurosurgery":</i>	
<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 "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 activity of the general practitioner.</p>	
<b>4. Learning outcomes (competencies)</b>	
As a result of studying the discipline "neurosurgery"	
<b>KNOW:</b>	
<ul style="list-style-type: none"> <li>• • place of neurosurgery as science, industry of practical medicine and educational subject;</li> <li>• • Methodological bases and patient clinical examination schemes:</li> <li>• • study of cranno - brain nerves, motor, sensitive functions, etc.;</li> <li>• • Changes in spinal fluid and meningual symptom complex;</li> <li>• • Paraclinical methods of patient examination (neuroisualization, ultrasonic and electrophysiological);</li> <li>• • clinical and diagnostic interpretations of indicators of the most important laboratory and instrumental studies;</li> <li>• • the most important symptoms and syndromes in the clinic of nerve diseases and their semiological interpretation;</li> <li>• • the most important issues of clinical neurosurgery: vascular, inflammatory, traumatic defeat of the main and spinal cord, disease of the peripheral nervous system, vertebrogenic diseases, paraneoplastic processes of the main and spinal cord, their etiological and pathogenetic factors of formation;</li> <li>• • Modern methods of diagnosis, treatment and prevention of neurosurgical diseases, taking into account the principles of evidence-based medicine.</li> </ul>	
<b>BE ABLE TO: *</b>	
<ul style="list-style-type: none"> <li>• • assess the neurological status of the patient (examination of active and passive movements, tone</li> </ul>	

<p>and muscle strength, tendons, perpetrators, skin reflexes).</p> <ul style="list-style-type: none"> <li>• to highlight and fix the leading topical syndrome and establish a clinical diagnosis;</li> <li>• To interpret the main indicators of auxiliary methods of examination in the neurological clinic (electrophysiological, ultrasonic, radiological, computer-repair);</li> <li>• 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;</li> <li>• 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;</li> <li>• Demonstrate the possession of the moral and deontological principles of the medical specialist and principles of professional subordination in the clinic of neurosurgery</li> </ul>						
<b>5. Organization of the study of the discipline</b>						
<i>The volume of the course</i>						
<b>Type of lesson</b>		<b>Total number of hours</b>		<b>30</b>		
Lectures				4		
Seminars				16		
Independent work				10		
<i>Signs of the course</i>						
Semester	Specialty	Course (year of study)	Normative / selective			
8	221 Dentistry	4	Normative			
<i>Course topics</i>						
Theme, plan		Form of employment	literature	Tasks, hours	Estimation weight	Deadline
<i>Content module 1.</i>						
<b>Topic 1.</b> Traumatic lesions of the nervous system.		lecture	1- 9, 15	3 hours	6,7	According to the schedule
<b>Topic 2.</b> Vertebral-spinal trauma. Traumatic damage peripheral nervous system.		practical	1- 9, 12, 13	3 hours	6,7	According to the schedule
<i>Content module 2.</i>						
<i>Tumors of the brain. Hydrocephalus</i>						
<b>Topic 3.</b> Tumors of the brain.		practical	1-9, 12,22,25	2 hours	6,7	According to the schedule
<b>Topic 4.</b> Hydrocephalus.		practical	1-9, 14,15	2 hours	6,7	According to the schedule
<b>Topic 5.</b> Vascular diseases of the brain.		practical	1- 9, 11	2 hours	6,7	According to the schedule
<b>Topic 6.</b>		practical	1-9,12,13	2 hours	6,7	Accordi

Children's neurosurgery, hydrocephalus.					ng to the schedule
<b>Topic 7.</b> Tumors of the spinal cord.	practical	7-9,10,27,28	2 hours	6,7	According to the schedule
<b>Topic 8.</b> Final modular control			80	6,7	According to the schedule

### 6. Course evaluation system

#### General course evaluation system

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:

- test tasks with the choice of one correct answer, with the definition of the correct sequence of actions, with the definition of compliance;
- individual oral examination, interview;
- solving typical situational problems;
- control of practical skills;
- solving typical tasks of diagnosis, medical care, medical evacuation, treatment and prevention.

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.

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.

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.

**Table 1. Conversion of the average grade for current activities in a multi-point scale (for disciplines that end with an exam (differentiated credit))**

4-point scale	120-point scale	4-point scale	120-point scale	4-point scale	120-point scale	4-6point scale	120-point 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		

The maximum number of points that a student can score during the final control of the student's acquisition of knowledge is 80 points.

**Table 2. Scale of assessment of differentiated (exam) credit:**

National scale	Score scale
«5»	70-80

	«4»	60-69
	«3»	50-59
	<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>	
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 (differentiated 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 1	
	Classroom work (Content module 1)	
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.	
<b>7. The policy of studying the discipline</b>		
<p>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.</p>		
<b>8. Recommended literature</b>		
Basza:	<ol style="list-style-type: none"> <li>1. Romodanov AP, Mosychuk M.M .. Neurosurgery: Tutorial. - K.: "Flash", 1998. - p.: 256, IL.</li> <li>2. Neurosurgery: Textbook / VI Tsimbalyuk, B.M. Luzan, I.P. Dmitryko et al.; ed. the acad. VI Tsibalyuk. - Vinnitsa: New Book, 2011.- 304 p.</li> <li>3. Atlas Topic diagnostics Diseased nervous system / A.P.Romodanov, N.M. Mosychuk, D.I. Kholopchenko - High Sk., - 1987. -231C.</li> <li>4. Atlas Operations at Main Mosge / A.P.Romodanov, Yu.A.Zozuly, N.M.Mosichuk, G.S. Sushkin - Moscow: Medicine, - 1986. -384 p.</li> <li>5. Brotman M.K., Romodanov S.A. Early manifestations of neurochurgical diseases.</li> </ol>	

	<p>- K.: Health, 1984.</p> <p>6. Grigorovich K.A. Hirurgicheskoe beds are frozen nerves. - L.: Medicine, - 1981. - 302 p.</p> <p>7. Gusev E.I., Konovalov A.N. etc. Neurology and neurochurgery. Trainer. - M. Medicin - 2000.- 656C .: IL.</p> <p>8. Cuckoo I.S. Craniocerebral trauma: classification, clinic, diagnostics, urgent medical care // Ukrainian medical magazine. -1997.-№1.-p. 25-31.</p> <p>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>
<p><b>Auxiliary:</b></p>	<p>10. Candel E.I. The basics of stereotaxic and functional neurosurgery. - Moscow: Medicine, 1981.</p> <p>11. Konovalov AN Hirurgic layer aneurysms of the brain. - Moscow: Medicine, 1975.</p> <p>12. Lebedev V.V., Bykovnikov L.D. Moving on an unulpower neurosurgery. -M: Medicine. - 1987. - 336 p.</p> <p>13. Loveliz AV Hurourage of spinal cord. - M: Medicine, 1990. - 352 p.</p> <p>14. Mozhaev JI. et al. Neurosurgery..cher for students of medicine node. - S.-P. b: a polytechnic, - 2001.-355s.: With IL.</p> <p>15. Neurology / Ed. M. Samuelas. - Moscow: Practice, 1997. -640 with.</p> <p>16. Neurotravatology. Wellness / Ed. APKonovalova, L.B.L.Therman, AA Potapova Rostov N / D: Izdu "Fenecas" .- 1999, ed. - 576 p.</p> <p>17. Neurosurgery: Trainer / V.I.Simbalyuk, B.N.Luzan, I.P. Dmitryko and DR; Ed. Prof. YOU. Tsibalyuk.-K.: Medicine, 2008.- 160s.</p> <p>18. Nikiforov B.M., Matsko D.E. Tumors of the brain. - SPB, Peter, 2003.-320C. - (Serium "Bright Movowry").</p> <p>19. Oleskevich F.V. , Oleskevich AF Neurosurgery: Operations at the main Mozge. - Minsk: Вышэйшая 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. Polishchuk 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

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