

MINISTRY OF HEALTH OF UKRAINE  
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department Of Neurosurgery

2021-2022 academic year

**SYLLABUS**  
**«NEURODENTISTRY»**  
(name of discipline)

Mandatory or additional course component: optional

Educational program: Full-time

field of study 22 «Healthcare»

specialty 221 «Dentistry» the second (master's) level

course: VI

The program of discipline approved at a meeting of the Neurosurgery Department

Approved by the methodical Commission of KHNMU on problems of surgical profile

Protocol from.  
“30” August 2021 year № 1

Head of department

(signature)

Professor Pyatykop V.O.  
(surname and initials)

“30” August 2021 year № 1

Protocol from.  
“31” August 2021 year № 1

Head of department

(signature)

Professor Syplyvyy V.O.  
(surname and initials)

“31” August 2021 year № 1

## DEVELOPERS OF THE PROGRAM:

Head of Department, Doctor of Medicine, Professor Pyatykop V.O.

Assistant professor, Candidate of Medical Sciences Serhiyenko J.G.

### 1. Data about the teacher who teaches the discipline

Surname, name, patronymic of the teacher	Pyatykop Vladimir Alexandrovich
Contact phonenumber .	+380503035092
E-mail:	pyatikopv@gmail.com
Schedule of classes	according to the schedule
Consultation	according to the stand

Last name, first name and patronymic of the teacher	Tsygankov Alexander Vasylyevich
Contact phonenumber .	+380505196240
E-mail:	
Schedule of classes	according to the schedule
Consultations	according with the stand

Last name, first name and patronymic	Chmut Victor Alekseyevich
Contact phonenumber .	+30672995889
E-mail:	
Schedule of classes	according to the schedule
Consultations	according with the stand

Surname, name, patronymic of the teacher	Kutovoy Igor Alexandrovich
Contact phonenumber .	+380503002550
E-mail:	igorkutovoy@gmail.com
Schedule of classes	according to the schedule
Consultation	according to the stand

Surname, name, patronymic of the teacher	Masalitin Igor Nikolaevich
Contact phonenumber .	+380503003906
E-mail:	Im.masalitin@knmu.edu.ru
Schedule of classes	according to the schedule
Consultation	according to the stand

Surname, name, patronymic of the teacher	Yulia Genadievna Sergienko
Contact phonenumber .	+380509603676
E-mail:	Yh.serhiienko@gmail.com
Schedule of classes	according to the schedule
Consultation	according to the stand

Surname, name, patronymic of the teacher	Babalyan Yuri Alexandrovich
Contact phonenumber .	+30506549404
E-mail:	Babalyan_y@ukr.net
Schedule of classes	according to the schedule
Consultation	according to the stand

Surname, name, patronymic of the teacher	Natalia Igorevna Zavgorodnaya
Contact phonenumber .	+380957173508
E-mail:	Ni.zavgorodnia@kntmu.edu.com
Schedule of classes	according to the schedule
Consultation	according to the stand

Surname, first name and patronymic of the teacher	Kravtsova Anna Vitalievna
Contact phonenumber .	+380509478939
E-mail:	Av.kravtsova@kntmu.edu.com
Schedule of classes	according to the schedule
Consultation	according to the stand

Surname, name, patronymic of the teacher	Stogniy Artem Volodimirovich
Contact phonenumber .	+380506549404
E-mail:	Av.stohnii@kntmu.edu.com
Schedule of classes	according to the schedule
Consultation	according to the stand

Location of the Department: Kharkiv, Independence ave. 13

## INTRODUCTION

**The program of study of the “NEUROSTOMATOLOGIC” discipline** is made according to the Standard of higher education of Ukraine (hereinafter – the Standard) \_\_\_\_\_ specialists of the second (master) level

(a name of higher education level)

academic discipline \_\_\_\_\_ 22 «Healthcare»

(code and name of the field of knowledge)

specialties \_\_\_\_\_ 221 "Dentistry" - the second (master's) level

(code and name of specialty)

specialization (s) \_\_\_\_\_.

(code and name of specialization)

Educational program

(name of the educational program)

**Description of the discipline (abstract)** Discipline involves the study of neurostomatologic on major sections: "Trigeminal nerve lesions of the trigeminal nerve", "the Syndromes of lesion of the facial nerve. Syndromes of defeat of the pharyngeal, vagus and sublingual nerves", "Symptomocomplexes caused by the defeat of the autonomic nervous system. Vegetative prosopalgia and other neurogenic diseases of the person", the emphasis is on the study of the etiology, pathogenesis, clinical presentation, diagnosis, emergency treatment and prevention of the most common and widespread neurogenic diseases of the face and mouth, neurostomatologic diseases. Considerable attention is paid to the formation of students' skills of anamnesis, examination and differential diagnosis of neurostomatological diseases with a variety of clinical course and their complications, in practice, we study modern approaches to diagnosis, principles of treatment and prevention based on evidence-based medicine, as well as emergency conditions in practice. Students take part in the diagnostic and therapeutic process of outpatient, inpatient patients under the guidance of assistants and associate professors of the Department. It also provides for familiarization with treatment and prevention measures, which are most often used in practice. The study of the discipline "Neurostomatology" contributes to the formation of a holistic view of the structure and innervation of the face and oral cavity; deepening of theoretical and practical training, the acquisition of professional practical skills for independent medical activity.

**The subject** of study of the discipline are neurogenic pathological processes of the face and oral cavity related to the room of neurostomatology and neurology, features of their clinical course, the main diagnostic and therapeutic manipulations used in practice.

The academic discipline belongs to selective disciplines.

**Interdisciplinary connections:** normal anatomy, histology, normal physiology, pathological physiology, topographic anatomy and operative surgery, Microbiology, biochemistry, pharmacology, nervous diseases, neurosurgery, otorhinolaryngology, ophthalmology, medicine of extreme conditions.

### 1. The purpose and objectives of the discipline

To provide academic training in neurosurgery and training of graduates for professional activity of the physician primary positions through the acquisition of General and specific competences, the scope of which at least describes how certain lists of syndromes and symptoms, diseases, emergency conditions, physiological States and diseases that require special tactics of patient management, laboratory and instrumental investigations, medical procedures; issues of labour, judicial and military expertise.

#### 1.2. The main objectives of the study neurohrGII are:

1. Identify and identify the leading clinical neurosurgical symptoms and syndromes; follow standard methods, using preliminary data of the patient's anamnesis, patient examination data, knowledge about a person, his organs and systems, establish a probable nosological or syndromic preliminary clinical diagnosis of aneurological disease.

2. Prescribe and analyze additional (mandatory and optional) methods of examination (laboratory, radiological, functional and / or instrumental), patients with diseases of internal organs with the help of the nervous system for the differential diagnosis of diseases.

3. Determine the final clinical нейрохірургнеurosurgery diagnosis by adhering to appropriate ethical and legal norms, by making an informed decision and logical analysis of the obtained subjective and objective data of the clinical additional examination, conducting differential diagnostics under the supervision of a senior doctor in a medical institution.

4. Establish the diagnosis of urgent conditions in нейрохірургнеurosurgery under any circumstances (at home, on the street, in a medical facility), in an emergency situation, martial law, lack of information and limited time.

5. Determine the approach, plan, type and principle of treatment ofneurosurgical disease by making an informed decision, following existing algorithms and standard schemes.

6. Determine the management tactics of aneurocirculatory patient with somatic pathology by making an informed decision, following existing algorithms and standard schemes.

7. Conduct treatment of major нейрохірургнеurocirculatory diseases using existing algorithms and standard schemes under the supervision of a medical supervisor in a medical facility

8. Perform neuro-surgical manipulations based on a preliminary and / or final clinical diagnosis for different segments of the population and in different conditions.

### **1.3 Competencies andзультати learning outcomes**

According to the requirements this discipline ensures the acquisition of students *competencies*:

*integral*: Ability to solve complex problems and problems in the field of healthcare by specialty «Dentistry» in professional activity or in the course of training, which involves research and / or innovation and is characterized by uncertainty of conditions and requirements;

*General competencies*: Ability to abstract thinking, analysis and synthesis. Knowledge and understanding of the subject area and understanding of professional activities. Ability to apply knowledge in practical activities. Skills in using information and communication technologies. Ability to search, process, and analyze information from various sources. Ability to adapt and act in a new situation. Ability to identify, pose and solve problems. The ability to be critical and self-critical. Ability to work in a team. Striving to preserve the environment. The ability to act in a socially responsible and conscious manner. Ability to exercise their rights and obligations as a member of society, to understand the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine. The ability to preserve and multiply moral, cultural, scientific values and achievements of society on the basis of understanding the history and patterns of development of the subject area, its place in the General system of knowledge about nature and society and in the development of society, technology and technology, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle.

*special (professional) competencies*: ability to collect medical information about a patient and analyze clinical data. Ability to interpret the results of laboratory and instrumental studies. Ability to diagnose: to identify pre-clinical, the final, related diagnosis, a medical emergency. Ability to plan and implement measures for the prevention of neurosurgical diseases. Ability to design the process of providing medical care: determine approaches, plans, types and principles of treatment of neurosurgical diseases. Ability to determine the rational mode of work, rest, diet in patients with the treatment of neurosurgical diseases. The ability to define tactics of conducting patients with neurohirurgiіtheir diseases. Ability to perform medical and neuro-surgicalmanipulations. Ability to treat major neurosurgical diseases. Ability to maintain regulatory medical documentation.

## Competence matrix

<b>Classification of competencies according to National qualifications framework (NQF)</b>	<b>Knowledge</b>	<b>Skills</b>	<b>Communication</b>	<b>Autonomy and responsibility</b>
<b>General competences</b>				
1. Ability to abstract thinking, analysis and synthesis; ability to learn and be modernly trained.	+	+	+	+
2. Knowledge and understanding of the subject area and understanding of the profession.	+	+	+	+
3. Ability to apply knowledge in practical situations.	+	+	+	+
4. Skills in the use of information and communication technologies.	+	+	+	+
5. Ability to communicate in the state language both orally and in writing; ability to communicate in a second language.				
6. The ability to search for, process and analyse information from a variety of sources.	+	+	+	+
7. Ability to adapt and act in a new situation; ability to work autonomously.	+	+	+	+
8. Ability to identify, put and solve problems.	+	+	+	+
9. Ability to choose a communication strategy.	+	+	+	+
10. Ability to work in a team. Interpersonal skills.		+	+	+
11. Ability to act on the basis of ethical considerations (motives).	+	+	+	+
12. Skills for safe operation.	+	+	+	+
13. Ability to assess and ensure the quality of work performed.	+	+	+	+
14. The desire to preserve the environment.	+	+	+	+
15. Ability to act in a socially responsible and civic conscious manner.	+	+	+	+

<b>Special (professional) competences</b>				
1. Collection of medical information on the patient's condition.	+	+	+	+
2. Evaluation of the results of laboratory and instrumental research.	+	+	+	+
3. Establishment of a clinical diagnosis of disease.	+	+	+	+
4. Diagnosis of urgent dental conditions.	+	+	+	+
5. Planning and conducting of the profile of the actives of dental diseases.	+	+	+	+
6. Determination of the nature and principles of treatment of dental diseases.	+	+	+	+
7. Determination of the necessary mode of work and rest, diet and the treatment of dental diseases.	+	+	+	+
8. Determination of the tactics of conducting patients with pathology.	+	+	+	+
9. Conducting the treatment of dental diseases.	+	+	+	+
10. Performance of medical diagnostic and therapeutic manipulations.	+	+	+	+
11. Organization of medical and evacuation activities.	+	+	+	+
12. Clinical examination of persons subject to dispensary supervision.				
13. Definition of tactics and provision of emergency medical care.	+	+	+	+
14. Assessment of the environmental impact on the health of the population (individual, family, population).	+	+	+	+
15. Maintaining medical records.	+	+	+	+
16. Ability to organize and conduct rehabilitation activities and care for patients with diseases of the oral cavity and SLE.	+	+	+	+
17. Development of state, social and medical information.	+	+	+	+
18. Ability to provide premedical according to the protocols of tactical medicine.	+	+	+	+









analysis of certain social and personal needs.																	
17. Adhere to a healthy lifestyle, use self-regulation and self-control.	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
18. To be aware of and guided in their activities by civil rights, freedoms and duties, to improve the general cultural level.	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
19. Comply with the requirements of ethics, bioethics and deontology in their professional activities.	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
20. To organize the necessary level of individual safety (own and persons who are taken care of) in case of typical dangerous situations in the individual field of activity.	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
21. Perform medical manipulations based on a preliminary and/or final clinical diagnosis for different segments of the population and under different conditions.	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
22. Perform medical dental procedures based on a preliminary and/or final clinical diagnosis for different segments of the population and under different conditions .	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
23. Perform manipulation of emergency medical care, using standard schemes, under any circumstances, based on the diagnosis of an emergency condition in a limited time .	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+

	<b>Special (professional) competences</b>
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Program learning outcomes	1. Collection of medical information about the patient's condition.	2. Evaluation of the results of laboratory and instrumental studies.	3. Establishment of a clinical diagnosis of disease.	4. Diagnosis of urgent dental conditions.	5. Planning and conducting of the profile of the activities of dental diseases.	6. Determination of the nature and principles of treatment of dental diseases.	7. Determination of the necessary mode of work and rest, diet and the	8. Determination of the tactics of conducting patients with pathology.	9. Conducting the treatment of dental diseases.	10. Performance of medical diagnostic and therapeutic manipulations.	11. Organization of medical and evacuation activities.	12. Clinical examination of persons subject to disaster evacuation.	13. Definition of tactics and provision of emergency medical care.	14. Assessment of the environmental	15. Maintaining medical records.	16. Ability to organize and conduct	17. Development of state, social and medical information.	18. Ability to provide premedical according to the protocols of tactical
1. To distinguish and identify the leading clinical symptoms and syndromes; for standard techniques, using preliminary data of the patient's history, the patient's examination data, knowledge about the person, his organs and systems, to establish a probable nosological or syndromic preliminary clinical diagnosis of a neurosurgical disease.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
2. Collect information about the General condition of the patient, evaluate the neurological status of the patient and the state of the nervous system, based on the results of laboratory and instrumental studies to evaluate information regarding the diagnosis.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
3. Assign and analyze laboratory, functional and/or instrumental examination of the patient in neurosurgical diseases for differential diagnosis of diseases.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
4. To determine the final clinical diagnosis, adhering to the relevant ethical and legal norms, by making an informed decision and logical analysis of the obtained subjective and objective data of clinical additional examination, differential diagnosis under the supervision of a physician-Manager in a medical institution.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
5. Establish a diagnosis of emergency	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+

conditions under any circumstances (at home, on the street, in a medical institution), in an emergency, martial law, lack of information and limited time.																		
6. Plan and implement measures to prevent neurosurgical diseases among the population to prevent the spread of diseases.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
7. 7. To analyze the epidemiological state and carry out measures of mass and individual, General and local drug and non-drug prevention of neurosurgical diseases.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
8. To determine the nature of treatment of neurosurgical disease by making an informed decision on existing algorithms and standard schemes	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
9. To determine the nature, principles of work, rest and necessary diet in the treatment of neurosurgical diseases on the basis of preliminary or final clinical diagnosis by making an informed decision, for existing algorithms and standard schemes.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
10. To determine the tactics of management of a neurosurgical patient in somatic pathology by making an informed decision on the existing algorithms and standard schemes.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
11. To carry out treatment of the main neurosurgical diseases according to the existing algorithms and standard schemes under the supervision of the doctor of the head in the conditions of medical institution.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
12. Organize medical evacuation measures among the population, military personnel, in an emergency situation, including martial law, during the deployed stages of medical	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+

evacuation, taking into account the existing system of medical evacuation support.																		
13. To determine the tactics of emergency medical care, using the recommended algorithms, under any circumstances, based on the diagnosis of an emergency condition in a limited time.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
14. Analyze and evaluate public, social and health information using standard approaches and computer information technologies.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
15. Assess the impact of the environment on the health of the population in a medical institution using standard methods.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
16. To form goals and determine the structure of personal activity on the basis of the result of the analysis of certain social and personal needs.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
17. Adhere to a healthy lifestyle, use self-regulation and self-control.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
18. To be aware of and guided in their activities by civil rights, freedoms and duties, to improve the general cultural level.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
19. Comply with the requirements of ethics, bioethics and deontology in their professional activities.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
20. To organize the necessary level of individual safety (own and persons who are taken care of) in case of typical dangerous situations in the individual field of activity.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
21. Perform medical manipulations based on a preliminary and/or final clinical diagnosis for different segments of the population and under different conditions.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
22. Perform medical dental procedures based on a preliminary and/or	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+

final clinical diagnosis for different segments of the population and under different conditions .																			
23. Perform manipulation of emergency medical care, using standard schemes, under any circumstances, based on the diagnosis of an emergency condition in a limited time .	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+

## 2. Information volume of the discipline

"Neurostomatology"(specialty 221 " Dentistry»)  
 Total hours: 30/0,75 credits  
 (8 lectures, 22 practical and self-learning classes).

The program in neurostomatology for the 4th year of the second(master's) level of higher education in specialty 221 "Dentistry", provides for the study of topical issues of neurostomatology in its main sections: trigeminal nerve and damage to the trigeminal nerve system. Syndromes of facial nerve damage. syndromes of damage to the lingual-pharyngeal, vagus and hyoid nerves. Symptom complexes caused by damage to the autonomic nervous system. Vegetative prosopalgia and other neurogenic facial diseases., urgencies in neurostomatology.

According to the curriculum of student training, the discipline "Neurostomatology" (30 hours/0,75 credit) is studied by students in the 4th year of study in the specialty 221 "Dentistry". The approximate duration of lectures and practical classes is 30 hours.

The program of the discipline consists of only hours: 30/0,75 credits (classroom – 28: lectures - 8, practical - 20 and SLS - 2), which includes 3 blocks of content modules.

The topics of the lecture course reveal problematic issues of the relevant sections of topical issues of neurostomatology. In the lecture course, didactic tools are used as much as possible (multimedia presentations, graphological structures, demonstration of working with computer programs for calculating statistical quantities). The lecture and practical stages of students ' training are mainly designed in such a way that lectures either precede the corresponding practical classes, or, when rotating modules, are read in one block.

The department, when teaching the course "Neurostomatology", has the right to redistribute academic hours within the content modules within the program, depending on organizational and technical capabilities, research areas, environmental characteristics of the region, but must fulfill the overall scope of discipline requirements according to the final goals of OKH and OPP in the direction of training and curriculum.

The program is structured into sections:

### Section 1

Trigeminal nerve and defeat of the trigeminal nerve system.

#### Topic 1. Trigeminal neuralgia.

Trigeminal neuralgia is predominantly of Central origin. Classic trigeminal neuralgia of Central origin. Postherpetic lesions of the branches of the trigeminal nerve.

Trigeminal neuralgia is predominantly of peripheral origin. Odontogenic neuralgia of the trigeminal nerve. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment.

#### Topic 2. Neuropathy of the trigeminal nerve and its individual branches.

Neuropathy of the mandibular branch of the trigeminal nerve and its individual branches: alveolar, buccal and linguistic(glossalgia) nerves. Neuropathy of the maxillary branch of the trigeminal nerve and its upper alveolar nerve.

Iatrogenic neuropathies of the trigeminal nerve. Etiology, pathogenesis, clinic, diagnosis, treatment.

### Section 2.

Syndromes of facial nerve damage. syndromes of defeat of the pharyngeal, vagus and sublingual nerves.

**Topic 1. Syndromes of facial nerve damage.** Peripheral and Central paresis of facial muscles. Neuropathy of the facial nerve. Syndrome of destruction of the knee node (hunt's syndrome). Neuralgia videogo nerve (syndrome File). Etiology, pathogenesis, clinic, diagnosis, treatment.

**Topic 2. Syndromes of defeat of the pharyngeal, vagus and sublingual nerves.**

Neuralgia of the pharyngeal nerve. Neuralgia of the tympanic nerve (Reichert syndrome). Neuralgia of the ear nerve. Neuralgia of the upper laryngeal nerve. Neuropathy of hypoglossal nerve. Etiology, pathogenesis, clinic, diagnosis, treatment.

**Section 3.**

The symptom caused by lesions of the autonomic division of the nervous system. vegetative prosopalgia and other neurogenic diseases of the face, pathogenesis, clinic, diagnosis, treatment.

**Topic 1.** Neuralgia of the nasal nerve (syndrome Carlina, the ciliary node syndrome) . Ear-temporal nerve syndrome (Frey syndrome).

Ganglion of the ciliary node (Oppenheim syndrome). Krillan's a ganglion node (syndrome Sluder). Ganglion of the ear node. Ganglion of submandibular and sublingual nodes. Ganglionitis of cervical sympathetic nodes. Etiology, pathogenesis, clinic, diagnosis, treatment.

**Topic 2.** Cluster cephalalgia (Horton's syndrome). The basic syndromes of defeat of the segmental level of the autonomic nervous system: trophic, sympathalgia and vascular syndromes (Queen's edema, Meig's disease).

Recurrent facial paralysis (syndrome Resolv-Melkerson-Rosenthal syndrome Melkersson-Rosenthal). Dry mucous membrane syndrome (Sjogren's syndrome, Guzhero-Sjogren's syndrome). Gematria person syndrome (Romberg's syndrome, parry-Romberg, tropho-neurosis Romberg).

Etiology, pathogenesis, clinic, diagnosis, treatment.

**Description of the discipline**

Name of indicators	Branch of knowledge, direction of training, educational qualification level	Characteristics of the discipline	
		full-time education	evening form of education
Number of credits 0.75	Direction of preparation 22 “Healthcare (code and name)	Full-time education	
Total hours - 30	Specialty: 221 “Dentistry” (code and name)	<b>Year of preparation:</b>	
		4th	th
		<b>Semester</b>	
		7th	8th
	Educational qualification level:	<b>Lectures</b>	
		8 hours	hour



Hours for full-time (or evening) education: classroom – 28 independent work of the student - 2	second (master's)	<b>Практичні, семінарські</b>	
		20 hours	hours
		<b>Laboratory</b>	
		hour	hour
		<b>Independent work</b>	
		2 hours	hour
		<b>Individual task: hours</b>	
Type of control: differentiated credit			

### 3. The structure of the discipline

Topic	Number of hours			Individual independent work
	Lectures	Practical class	Independent work	
<i>Section 1</i> Trigeminal nerve and defeat of the trigeminal nerve system.				
Trigeminal neuralgia is predominantly of Central origin. Classic trigeminal neuralgia of Central origin. Postherpetic lesions of the branches of the trigeminal nerve. Trigeminal neuralgia is predominantly of peripheral origin. Odontogenic neuralgia of the trigeminal nerve. Etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment. Neuropathy of the mandibular branch of the trigeminal nerve and its individual branches: alveolar, buccal and linguistic(glossalgia) nerves. Neuropathy of the maxillary branch of the trigeminal nerve and its upper alveolar nerve. Iatrogenic neuropathies of the trigeminal nerve. Etiology, pathogenesis, clinic, diagnosis, treatment.	3	6		<i>During the cycle review of scientific literature on the topics. Preparation of abstracts, reports.</i>
<i>Total under section 1</i>	<i>3</i>	<i>6</i>	-	
<i>Chapter 2</i> Syndromes of facial nerve lesions, syndromes of defeat of the pharyngeal, vagus and hypoglossal nerves.				
Peripheral and Central paresis of facial muscles. Neuropathy of the facial nerve. Syndrome of destruction of the knee node (hunt's syndrome). Neuralgia videogo nerve (File syndrome ). Etiology, pathogenesis, clinic, diagnosis, treatment. Neuralgia of the ear nerve. Neuralgia of the upper laryngeal nerve. Neuropathy of hypoglossal nerve. Etiology, pathogenesis, clinic, diagnosis, treatment. Neuralgia of the glossopharyngeal nerve. Neuralgia of the tympanic nerve (Reichert syndrome).	3	6	1	

Neuralgia of the ear nerve. Neuralgia of the upper laryngeal nerve. Neuropathy of hypoglossal nerve. Etiology, pathogenesis, clinic, diagnosis, treatment.				
<i>Total under section 2</i>	3	6	1	
<i>Section 3</i> Symptom caused by lesions of the autonomic division of the nervous system. Vegetative prosopalgia and other neurogenic diseases of the face.				
Neuralgia of the nasal frequent nerve (Charlene syndrome, ciliary node syndrome) . Ear-temporal nerve syndrome (Frey syndrome). Ganglion of the ciliary node (Oppenheim syndrome). Krillan's a ganglion node (Sluder syndrome). Ganglion of the ear node. Ganglion of submandibular and sublingual nodes. Ganglionitis of cervical cute knots. Etiology, pathogenesis, clinic, diagnosis, treatment. Cluster cephalalgia (Horton's syndrome). The basic syndromes of defeat of the segmental level of the autonomic nervous system: trophic, sympathalgia and vascular syndromes (Queen's edema, Meig's disease). Recurrent facial paralysis (syndrome Resolv-Melkerson-Rosenthal syndrome Melkersson-Rosenthal). Dry mucous membrane syndrome (Sjogren's syndrome, Guzhero-Sjogren's syndrome). Gematria person syndrome (Romberg's syndrome, parry-Romberg, tropho-neurosis Romberg). Etiology, pathogenesis, clinic, diagnosis, treatment.	2	6		
<i>Total under section 3</i>	2	6	-	
<i>Independent study of topics not included in the lesson plan</i>			1	
<i>Differentiated credit</i>		2		
<b>Total: 30 hours. (0,75 credit)</b>	8	20	2	

#### 4. Lecture topics

#	A name of a topic	Number of hours
1	Neurogenic diseases of the face and mouth. Trigeminal nerve and defeat of the trigeminal nerve system.	2
2	Syndromes of lesion of the facial nerve, syndromes of lesion of the glossopharyngeal, vagus and hypoglossal nerves.	2
3	The symptom caused by lesions of the autonomic division of the nervous system.	2
4	Vegetative prosopalgia and other neurogenic diseases of the face.	2
Total		8

#### 5. Topics of practical classes

#	A name of a topic	Number of hours
1.	Trigeminal nerve and defeat of the trigeminal nerve system	6
2.	Syndromes of facial nerve damage. syndromes of defeat of the pharyngeal, vagus and hypoglossal nerves	6
3.	The symptom caused by lesions of the autonomic division of the nervous system.	4
4.	Vegetative prosopalgia and other neurogenic diseases of the face. Differentiated credit.	4
Total		20

#### 6. Independent work

#	A name of a topic	Number of hours
1	Preparation for practical training	1
2	<i>Self-study of topics that are not included in the classroom plan</i>	1
4	Preparation for the differentiated credit	
Total		2

## **7. Individual task. Recommended topics of abstracts:**

1. Trigeminal neuralgia and glossopharyngeal neuralgia. Postherpetic trigeminal neuropathy. Neuropathy of individual branches of the trigeminal nerve. Clinic, diagnosis, treatment. Clinic, diagnosis and treatment of dental plexalgia.
2. Myofascial pain syndrome of the face, temporomandibular joint dysfunction. Clinic, diagnosis, treatment.
3. Neuroses. Somatoform pain syndromes of the face and head. Clinic, diagnosis. Treatment.
4. Cephalgias in different periods of human life. Migraine and periodic migrainous neuralgia, tension-type headache.

## **8. Teaching methods**

Practical clinical lessons on neurostomatologic held with groups of 13-15 people each.

The initial level of knowledge of the student, who begins training at the Department, provides for determining the level of knowledge in anatomy, General and special physiology, pathological anatomy and physiology on the basis of fundamental training at the departments of medical-biological and General clinical profile.

Lectures and practical training teachers highlights the achievements of scientific-technical progress of medicine, in particular, neurostomatologic and their implementation in practice.

In the lecture course presents the main and most challenging topics and neurostomatologic , including the problem of interrelation between all sections neurostomatologic General pathology, etiology and pathogenesis of various dental , somatic and neurological diseases, the nosological diagnosis, surgical and conservative treatment, prevention, socio-labor rehabilitation and examination.

With the aim of mastering the skills of medical care, along with the study of theoretical issues, students practice manipulation, under the direction and control of the teacher to independently carry out inspection of patients with different pathological processes that are the responsibility neurostomatologic, self study symptoms of neurogenic diseases of the face and mouth neurostomatologic diseases, acquire skills in diagnosis of diseases, their treatment,examination and employment rehabilitation.

## **9. Control methods**

Control measures are a necessary element of feedback in the learning process. They determine the compliance of the level of knowledge and skills acquired by students with the requirements of normative documents on higher education. Control measures in the study of the discipline "Neurostomatology" include current control, final control. The final semester control is carried out after the completion of the discipline in the form of current control and differentiated credit.

When evaluating the absorption of each training topic and the outcome of the lesson, the student will be billed based on national 4-point scale.

Mastering the topic (current educational activity) is monitored in practical classes in accordance with specific goals and during the individual work of the teacher with students.

**The following methods are used to determine the level of training of students:**

1. answers main questions;
2. computer tests;

3. solution of situational tasks and tasks on the license exam “KROK-2”;
4. evaluation and interpretation of clinical, laboratory and instrumental examinations (directly in diagnostic units, in classrooms, at the bedside of a person who is ill);
5. control of mastering practical skills and elements of medical equipment during the patient's supervision.

## **10. Evaluation of the success of teaching students on ECTS organization of the educational process (HDPE, credit, differentiated credit, exam) ECTS**

### 10.1 Assessment of current training activities

Total score for current educational activity during the semester is defined as the arithmetic average of the national estimates for each class and is listed in balatonaliga the scale in the table:

4-point scale	120-point scale	4-point scale	120-point scale
5	120	3.91-3,94	94
4.95-4,99	119	3.87-3,9	93
4.91-4,94	118	3.83- 3,86	92
4.87-4,9	117	3.79- 3,82	91
4.83-4,86	116	3.74-3,78	90
4.79-4,82	115	3.7- 3,73	89
4.75-4,78	114	3.66- 3,69	88
4.7-4,74	113	3.62- 3,65	87
4.66-4,69	112	3.58-3,61	86
4.62-4,65	111	3.54- 3,57	85
4.58-4,61	110	3.49- 3,53	84
4.54-4,57	109	3.45-3,48	83
4.5-4,53	108	3.41-3,44	82
4.45-4,49	107	3.37-3,4	81
4.41-4,44	106	3.33- 3,36	80
4.37-4,4	105	3.29-3,32	79
4.33-4,36	104	3.25-3,28	78
4.29-4,32	103	3.21-3,24	77
4.25- 4,28	102	3.18-3,2	76
4.2- 4,24	101	3.15- 3,17	75
4.16- 4,19	100	3.13- 3,14	74
4.12- 4,15	99	3.1- 3,12	73
4.08- 4,11	98	3.07- 3,09	72
4.04- 4,07	97	3.04-3,06	71
3.99-4,03	96	3.0-3,03	70
3.95- 3,98	95	Less than 3	Insufficiently

The minimum number of points that a student must score for the current academic activity in the study of the discipline to be admitted to a differentiated test is **70 points** on the ECTS scale.

## 10.2 Conducting and evaluation of differentiated credit.

The differentiated test is carried out by the teacher of the group at the last practical lesson. At the same time, the assessment of practical skills is carried out according to the "fulfilled" not fulfilled" criteria, and the evaluation of theoretical knowledge is carried out according to the table:

A number of questions	«5»	«4»	«3»	Oral answer for tickets that include the theoretical part of the discipline	For each answer, the student receives from 10 to 16 points, which corresponds to: «5» - 16 points; «4» - 13 points; «3» - 10 points.
1	16	13	10		
2	16	13	10		
3	16	13	10		
4	16	13	10		
5	16	13	10		
	80	65	50		

### 10.3 Evaluation on the discipline

The assessment on discipline is defined as the sum of points of the current educational activity and the points received directly on the differentiated offset. The maximum number of points that a student can score for the study of the discipline is 200 points, including the maximum number of points for the current educational activity – 120 points, as well as the maximum number of points on the results of the differentiated test - 80 points. The minimum number of points is 120, including the minimum current educational activity – 70 and the results of the differentiated test – 50 points.

### 10.4 Technology of discipline evaluation.

Points for individual tasks are charged to the student only at a time Commission (Commission – head. Department, head teacher, group teacher) only on condition of their successful implementation and protection, but the total amount of points for the current educational activities can not exceed 120 points.

The correspondence between the 200-point scale, the four-point (national) scale and THESS scale is shown in the table:

:

Assessment on a 200-point scale	Rating on a scale ECTS	Based on four-point (national) scale
180–200	A	Excellent
160–179	B	Good
150–159	C	Good
130–149	D	Sufficiently
120–129	E	Sufficiently
Less than 120	F, Fx	Insufficiently

The mark on discipline is put only to students who ranked all the final classes and the differentiated test.

Students who do not meet the requirements of the curriculum disciplines exposed assessment FX, if they were allowed to pass the differentiated test, but did not make it. Grade F is given to students who are not allowed to pass the differentiated test.

After the completion of the study of the discipline responsible for the organization of educational and methodical work at the Department or teacher put the student appropriate assessment on the scales in the record book and fill out the statements of progress of students in the discipline in the form of B-5.03 B – differentiated credit.

## **11. Methodological support**

1. Program of discipline;
2. Plans of lectures, practical classes and independent work of students;
3. Abstracts of lectures on discipline;
4. Methodological developments for the teacher;
5. Methodical instructions to practical classes for students;
6. Methodical materials for independent work of students;
7. Test and control tasks for practical classes;
8. Questions and tasks to control the assimilation section;
9. The list of questions to examination or the differentiated tests, tasks to test practical skills during the exam or differentiated credit.

## **12. Recommended literature list**

1. Пузин М.Н «Нервные болезни» учебник для студентов стоматологических факультетов медицинских вузов. М., Медицина, 2002. – 670.
2. Гречко В.Е. Неотложная помощь в нейростоматологии. – М., 1990 г.
3. Триумфов А.В. Топическая диагностика заболеваний нервной системы. – С-Пб., 1996 г., 2002г., 2007 г.
5. Сборник учебных пособий для самостоятельной работы студентов. Барнаул 2008 г.
6. Мегдянов Р.С. Невралгия тройничного нерва. 1999. – 142 с.
7. Пузин М.Н. Вегетативные лицевые боли. 1999. – 158 с.
8. В.М.Назаров, В.Д.Трошин, А.В. Степанченко «Нейростоматология». М., 2008, 256 с.
9. А.С.Никифоров, Е.И.Гусев, «Общая неврология», Пособие по нервным болезням, 2007, 45 стр.
10. А.С.Никифоров, Е.И.Гусев, «Частная неврология. Пособие по нервным болезням», М., 2007, 48 стр.
11. А.В.Степанченко, Н.А.Синева, А.Н.Савушкин, Т.Ю.Хохлова. «Основы топической диагностики неврогенных заболеваний лица и полости рта», Москва, 2006. – С. 59 с.
12. М.Ю.Максимова, Н.А.Синева, Н.П.Водопьянов, А.Н.Савушкин, Т.Ю.Хохлова. «Заболевания нервной системы. Часть 1. Нейростоматологические заболевания и синдромы», Москва, 2009. – С.38.
13. А.В.Степанченко, Н.А.Синева, А.Н.Савушкин, Т.Ю.Хохлова. «Заболевания нервной системы. Часть 2. Общая неврология». Москва, 2006 . – С. 59.



14.Пятикоп, В.О., Казаченко А.В., Кутовий І.О.,проф. Григорова І.О. Нейростоматологія. Методичний посібник.- . Харків.-2017.-49с.

### 13. Information resources

1. Сторінка кафедри на офіційному сайті університету:  
[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=218%3A2011-05-18-13-03-01&catid=7%3A2011-05-05-09-09-08&Itemid=27&lang=uk](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=218%3A2011-05-18-13-03-01&catid=7%3A2011-05-05-09-09-08&Itemid=27&lang=uk)
2. Сторінка кафедри у соціальній мережі: <https://www.facebook.com/neurokhnmu>
3. Сайт кафедри: [http://neurohirurg.umi.ru/kollektiv/kollektiv\\_kafedry\\_nejrohirurgii/](http://neurohirurg.umi.ru/kollektiv/kollektiv_kafedry_nejrohirurgii/)
4. Сторінка кафедри з курсом в Moodle <http://31.128.79.157:8083/course/view.php?id=395>
5. Сторінка кафедри з курсом в Moodle <http://31.128.79.157:8083/enrol/index.php?id=2324>
6. Сторінка кафедри з курсом в Moodle <http://31.128.79.157:8083/course/view.php?id=418>