

**MINISTRY OF HEALTH OF UKRAINE**  
**NATIONAL PIROGOV MEMORIAL MEDICAL UNIVERSITY, VINNYTSYA**  
**Department of ENT diseases**

"APPROVE"

Acting rector of the HEI

Victoriia PETRUSHENKO

“ 31 ” 08 2023 year

"AGREED"

Head of ENT department MD, prof. of HEI

Vasyl KISHCHUK

“ 30 ” 08 2023 year

**SYLLABUS OF THE COURSE**

**OTORHINOLARYNGOLOGY**

training of specialists of the second (master's) level of higher education

qualification of educational "Master of Stomatology "

qualification of professional " Stomatology"

areas of knowledge 22 "Health"

specialty 221 " Stomatology"

2023-2024

## **1. Course annotation:**

### **Semester (s) - 7**

Volume of the module: total number of hours - 60 of them lectures - 10 , practical classes - 28 , independent work - 22.

### **Description of the discipline abstract.**

Otorhinolaryngology is a clinical discipline that studies the anatomy, physiology and pathology of the ear, upper respiratory tract and adjacent areas. The importance and necessity of its teaching at the final stage of doctor's training is due to the fact that diseases of the upper respiratory tract are in one of the first places among human diseases and account for about 15% of all appeals to medical institutions. In addition, timely treatment of ENT diseases is the prevention of various pathologies of internal organs, helps prevent such severe chronic diseases as rheumatism, polyarthritis, pyelonephritis, cholecystitis, vascular pathology, nervous system, visual organ and thus determines the preservation of efficiency and longevity.

### **Types of educational activities of students according to the curriculum are:**

- lecture material;
- practical classes;
- independent work of students (VTS);
- consultations.

### **Practical classes include:**

- study of the discipline of otorhinolaryngology; - mastering practical skills. In practical classes in the discipline of otorhinolaryngology, students are recommended to:

- perform written tasks (test control to determine the initial level of knowledge, test control and situational tasks for the final control of the level of knowledge of students, watching educational thematic videos); (use of diagrams, tables, slides, models, computer presentations); - practical skills (tools for performing endoscopic examination of ENT organs: frontal reflector and frontal illuminator, nasal mirrors, spatulas, rear rhinoscopy mirror, laryngeal mirrors, ear canals).

- Supervision of patients with various occupational pathologies (and in their absence in the clinic - analysis of clinical situational tasks or archival case histories): collection of general and professional history, physical examination;

- Justification of the previous diagnosis;
- Drawing up a plan for additional examination of the patient and interpretation of laboratory and auxiliary research methods;
- Carrying out a differential diagnosis and substantiation of a clinical diagnosis;
- Drawing up a scheme of rational treatment;
- Solving the issues of examination of working capacity and prevention of occupational diseases.

- During their studies, students write and defend their medical history (only for clinical departments).

- Assimilation of the topic is controlled in practical classes in accordance with specific objectives, assimilation of content modules - in practical final classes. The following means of diagnosing the level of preparation of students are used: tests, solving situational problems, filling out workbooks, evaluation of data on sanitary and hygienic characteristics of working conditions. Interpretation of laboratory tests and interpretation and evaluation of their results, analysis and evaluation of the results of instrumental studies and parameters that characterize the functions of the human body, its systems and organs; control of practical skills.

- The final control of mastering the module is carried out after its completion. Assessment of student achievement in the discipline is a rating and is set on a multi-point scale and is determined by the ECTS system and the scale adopted in Ukraine.

## **2. Prerequisites and postrequisites of the discipline**

*a) is based on the study of students :*

- medical and biological physics: explain the physical basis of diagnostic and physiotherapeutic (therapeutic) methods used in medical equipment (PN.045); to interpret the general physical and biophysical laws that underlie human life (PN.048);
- human anatomy: to determine the topographic and anatomical relationships of human organs and systems (PN.019); interpret gender, age and individual features of the structure of the human body (PN.033);
- microbiology, virology and immunology: to interpret the biological properties of pathogenic and non-pathogenic microorganisms, viruses and patterns of their interaction with the macroorganism, the human population and the environment (PN.024); to interpret the main mechanisms of formation of the immune response of the human body (PN.052);
- histology, cytology and embryology: to interpret the microscopic structure of various human organs in terms of the relationships of tissues that are part of them at different ages, as well as in terms of physiological and reparative regeneration (PN.051);
- physiology: to analyze the state of sensory processes in ensuring human life (PN.012); explain the physiological basis of methods for studying the function of the organism (PN.037);
- internal diseases: to determine the tactics of the patient with the most common therapeutic diseases (PP.053); diagnose and provide emergency care for major emergencies in the clinic of internal medicine (PP.085);
- surgery: provide emergency medical care for the most common surgical diseases (PP.034); plan examination of the patient, interpret the results of laboratory and instrumental studies in the most common surgical diseases and their complications (PP.035);
- pathomorphology: to interpret the etiology, pathogenesis and morphological changes at different stages of the disease, the structural basis of recovery, complications and consequences of diseases (PP.263);
- pathophysiology: to interpret the causes, mechanisms of development and manifestations of typical pathological processes (pp.208);
- radiology: choose the optimal method of radiological examination to detect functional and morphological changes in the pathology of various organs and systems (PP.214);
- neurology: to determine the main symptoms and syndromes of lesions of different parts of the nervous system (PP.118);
- ophthalmology: to make a preliminary diagnosis of the most common eye diseases and injuries (PP.257);
- tuberculosis: to plan the scheme of examination of a patient with tuberculosis, to analyze the obtained data and to determine the treatment regimens of patients with different clinical forms of tuberculosis (PP.076) and integrate with these disciplines;

*b) lays the foundations for the study of students:*

- infectious diseases: to identify the main clinical symptoms that form a characteristic syndrome of the most common infectious diseases (PP. 028); interpret the results of specific tests for the presence of combined pathology - infectious and non-infectious (PP.067);
- epidemiology: to interpret the causes and patterns of the epidemic process, the main regulations in the field of epidemiology (PP.206);
- occupational diseases: to examine the patient, make a preliminary diagnosis and determine the tactics of management of patients with the most common occupational diseases (PP.037);
- oncology: to determine the tactics of examination and management of patients with suspected malignancy (PP.135), which provides for the integration of teaching with these disciplines and the formation of skills to apply knowledge of otorhinolaryngology in further study and professional activities;

*c) lays the foundations of a healthy lifestyle and prevention of upper respiratory tract and ear dysfunction in the process of life.*

**3 . Objectives of the course: .** "Otorhinolaryngology" is the mastery of methods of diagnosis, treatment and prevention of ENT diseases, especially the most common.

To achieve this educational goal the student must know: clinical anatomy and physiology of ENT organs and modern methods of their study: etiology, pathogenesis, clinic, methods of treatment and prevention of diseases of the nose, paranasal sinuses, pharynx, larynx, outer, middle and inner ear, and also the complications caused by them.

#### 4. The results of study

for the discipline according to the levels of knowledge:

1. Remembering, Knowledge ( Remembering , Knowledge ) - the ability to remember or reproduce facts (terms, specific facts, methods and procedures, basic concepts, rules and principles of holistic theories, etc.)

2. Understanding ( Comprehension , Understanding ) - the ability to understand and interpret learned. This means the ability to explain facts, rules, principles; convert verbal material into, for example, mathematical expressions; predict future consequences based on the acquired knowledge.

3. Application ( Applying ) - the ability to use learned material in new situations, such as use ideas and concepts to solve specific problems. 4. Analysis ( Analysing ) - the ability to break down information into components, understand their relationships and organizational structure, see errors and flaws in the logic of reasoning, the difference between facts and consequences, assess the significance of data. 5. Synthesis ( Synthesis , Creation, Creating ) - the ability to combine parts together to obtain a whole with a new system property. 6. Evaluation ( Evaluation , Evaluating ) - the ability to assess the importance of the material for a specific purpose.

4. Memorization of knowledge: - to master the material in the discipline of "Otorhinolaryngology"; - master the lecture material related to the subject of the discipline; - to reproduce the material related to the topics of content modules; - independently process, master the material. 2. Understanding: - to connect anatomy, physiology with the causes of ENT diseases; - to classify diseases with ENT pathology; - differentiate and analyze the timing of the disease; - on the basis of complaints, anamnesis and objective data to diagnose and differentiate with other diseases of the ENT organs; - on the basis of complaints, medical history to draw conclusions: to prescribe methods of examination and treatment of patients with ENT pathology. 3. Application: - p linking situational problems in practice; - use of knowledge in the practice of patient examination; - diagnosis of the patient on the basis of complaints, medical history, objective examination; - examination of the patient, manipulations. 4. Analysis: - to combine knowledge of fundamental medical disciplines and general knowledge; - have the means to search for information to demonstrate the skills of processing and analysis of information. 5. Synthesis: - create an oral and written presentation on the specialty; - formulate search results. 6. Assessment: - independently choose educational material while performing tasks of independent work; - combine the acquired knowledge during self-control; - to assess the reliability of information on the subject of "Otorhinolaryngology".

#### 5. Topics and content of the course

##### Topics of practical classes for 4th year students of the stomatological faculty

	Topic of the lesson The name of a teame	Year s
1	<b><i>Content module 1 Content module 1. Method of investigation of the ENT-organs.</i></b> Introduction to the specialty. Endoscopic methods of ENT examination. Preliminary test control of the basic level of knowledge. Endoscopic methods of ENT examination. Method and technic endoscopic investigation of ENT-organs. Clinical anatomy, physiology and research methods of the outer, middle ear. Clinical anatomy, physiology and research methods of the outer and middle ear. Clinical anatomy, physiology, methods of investigations of outer and middle ear.	2
2	Clinical anatomy, physiology and research methods of the auditory analyzer. Clinical anatomy, physiology of the inner ear, research methods of the auditory analyzer . Clinical anatomy, physiology, methods of investigation of the Sound analyzer.	2
3	Clinical anatomy, physiology and research methods of the vestibular analyzer . Clinical anatomy, physiology of the inner ear, research methods of the vestibular analyzer . Clinical anatomy , physiology , methods of investigation of vestibular system .	

4	Clinical anatomy, physiology and methods of examination of the nose and paranasal sinuses. Clinical anatomy, physiology and methods of examination of the nose and paranasal sinuses . Clinical anatomy, physiology and methods of investigation of nose and paranasal sinus	2
5	Clinical anatomy, physiology and research methods, pharynx, larynx, trachea, bronchi, esophagus. Clinical anatomy, physiology and methods of examination of the pharynx, larynx, trachea, bronchi, esophagus . Clinical anatomy, physiology, methods of investigation of pharynx, esophagus, larynx, trachea and bronchus.	2
6	Summary of practical skills. The result of practical skills . Methods of investigations of ENT-organs.	2
7	<b>Content module 2</b> Diseases of the outer and middle ear. Acute purulent otitis media. Mastoiditis. Anthromastoidotomy. Disease of the outer and middle ear. Acute purulent otitis media. Mastoiditis. Anthromastoidotomy. Acute external and middle otitis, mastoiditis.	2
8	Chronic purulent otitis media, labyrinthitis. Sanitizing and hearing restoration operations of the ear. Chronic purulent otitis media, labyrinthitis. Sanitizing and hearing-improving operations on the ear. Otogenic intracranial complications . Chronic purulent middle otitis. Tuberculosis middle ears. Otomycosis. Labyrinthitis.	
9	Non-inflammatory diseases of the ear. Otogenic intracranial complications. Non-inflammatory ear diseases. NonInflammatory inner ear deseases. Sensoneural deafness. Otosclerosis. Menier's disease. Acute and chronic catarrh of middle ear. Otogenic intracranial complication.	2
10	<b>Content module 3</b> Acute and chronic diseases of the pharynx. Acute diseases of the pharynx. X chronic diseases of the pharynx . Acute & chronic pharyngitis , tonsillitis . Quinsy ( paratonsillar abscess ). Retropharyngeal abscess. Diphtheria of pharyngis. Foreing bodies of pharyngis and gullet. Hypertrophy of palatine tonsills and nasopharyngeal tonsils (adenoids). Pharyngoleptotricosis.	2
11	Acute and chronic diseases of the nose and DPN. Rhinogenic orbital and intracranial complications . Acute and chronic rhinitis. Sinusitis, orbital and intracranial complications. Acute and chronic rhinitis. Diphtheria of nose. Nasal bleeding. Foreing bodies of the nasal cavity. Acute and chronic inflammation of the paranasal sinuses. Orbital and intracranial complications of sinusitis	2
12	<b>Content module 4</b> Diseases of the larynx, acute laryngitis, laryngeal sore throat, phlegmonous laryngitis, chondroperichondritis of the larynx Diphtheria of the larynx, chronic laryngitis, precancerous diseases of the larynx . Acute and hronycheskye larynhyty, stenozы larynx . Acute catarrhal laryngitis. Subchordal Laryngitis. Diphtheria of laryngis. Laryngotracheobronchitis obturans. Chronic laryngitis. Urgent help for patient with laryngeal strenosis. Foreing bodies of laryngis, trachea and bronchi.	2
13	Tumors and infectious granulomas of the ENT organs. Nasal injuries, nosebleeds. Foreign bodies of the ENT organs, respiratory tract and esophagus. ENT injuries. Foreign bodies of ENT organs. Nasal bleeding. Infectious granulomas. Tumors of the ENT organs . Tumors of the upper airways. Infectious granuloms of the airways (Rhynoscleroma, tuberculosis, syphilis). Traumas of the ENT organs. Foreing bodies of ENT-organs.	2
14	Credit ( Module )	2
	<b>Together</b>	<b>28</b>

### Lecture topics for 4th year students of the stomatological faculty

№3 / II	Name topics	To-th year	Lecturer
1	Acute external and middle otitis, mastoiditis. Chronic purulent middle otitis. Tuber-cu-losis middle ears. Otomycosis. Labirhyntitis.	2	Phd., associate professor of HEI. Bartsikhovskiy A .I.
2	Otogenic intracranial complication. NonInflammatory inner ear deseases. Sensoneural deafness. Otosclerosis. Menier's disease. Acute and chronic catarrh of middle ear.	2	Phd., associate professor of HEI. Bartsikhovskiy A .I.
3	Acute pharyngitis. Acute tonsillitis. Quinsy (paratonsillar abscess). Retropharyngeal abscess. Lateropharyngeal abscess. Diphtheria of pharyngis. Foreing bodies of pharyngis and gullet. Chronic pharyngitis. Chronic tonsillitis. Hypertrophy of palatine tonsills and nasopharyngeal tonsil (adenoids). Pharyngoleptotricosis. Candida-mycosis. Actinomycosis.	2	Phd., associate professor of HEI. Bartsikhovskiy A .I.
4	Acute and chronic rhynitis. Diphtheria of nose. Nasal bleeding. Foreing bodies of the nasal cavity. Acute and chronic inflammation of the paranasal sinuses. Orbital and intracranial com-pli-ca-tions of the sinusitis. Acute catarrhal laryngitis. Subchordal Laryngitis. Diphtheria of laryngis. Laryngotracheobronchitis obturans. Chronic laryngitis. Urgent help for patient with laryngeal strenosis. Foreing bodies of laryngis, trachea and bronchi.	2	Phd., associate professor of HEI. Bartsikhovskiy A .I.
5	Trauma & tumors & infectious granuloms of the ENT-organs.	2	Phd., associate professor of HEI. Bartsikhovskiy A .I.
	<b>Together</b>	10	

### Independent work.

№ topics	Topic of the lesson	hours
1	Meniere's disease: etiology, pathogenesis, diagnosis, clinic and treatment. Meniere ' s disease : etiology , pathogenesis , diagnostics , clinic and treatment . Meniere's disease: etiology, pathogenesis, diagnosis, clinic and treatment.	2
2	Otogenic intracranial complications. Otogenigal intracranial complications . Otogenic intracranial complications	2
3	Exudative otitis. Exudative otitis . Exudative otitis	2
4	Otosclerosis: etiology, pathogenesis, diagnosis, clinic and treatment. Otosclerosis: etiology, pathogenesis, diagnostics, clinic and treatment.	2
5	Modern problems of hearing restoration operations. Modern problems of hearing operations. Otosclerosis: etiology, pathogenesis, diagnosis, clinic and treatment.	2
6	New methods of diagnosis and treatment of sensorineural hearing loss. New methods of diagnostics and treatment of sensorineural hearing loss. New methods of diagnosis and treatment of sensorineural hearing loss.	2
7	Rhinoplasty. Rhinoplasty. Rhinoplasty	2
8	Functional diseases of the vocal apparatus. Functional diseases of the vocal apparatus	2
9	Mycoses of the ENT organs. Mycosis of ENT organs . Mycoses of the ENT - organs	3

10	Assimilation of methods and techniques of cricoconicotomy, tracheostomy. Mastering of the methods and techniques of tracheostomy . Assimilation of methods and techniques of cricoconicotomy, tracheostomy.	3
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### **Form of final control of learning success - differentiated test:**

#### **The list of questions for the final control-differentiated test :**

- Otoscopy. Instruments, technique. Otoscopic picture.
- Anterior rhinoscopy. Instruments, technique. Rhinoscopic picture.
- Meso-pharyngeoscopy. Instruments, technique. Draw the picture.
- Epipharyngeoscopy (posterior rhinoscopy) Instruments, technique. Draw the picture.
- Hypopharyngeoscopy (indirect laryngeoscopy) Instru-ments, technique. Draw the picture.Outer and middle ear.
- Structure of external acoustic meatus walls. Parts of the meatus. Function. Incisurae Santorini.
- Ear-drum, parts, layers, anatomical stuctures. Transformative and protective functions of ear-drum.
- Anatomic formations of middle ear (cavity system, ossicles, musles).
- Anatomy and function of auditory tube (Eustachian tube), methrds of investigations.
- Types of mastoideus process (pneumatic, diploetic, sclerotic). Groups of air cells, their role in expanding of inflammatory processes. Perceptive analyzer.
- Anatomy and topography of the mem-bra-nous cochlea. Basic membrane.
- Investigation of hearing by a voice.
- Investigation of hearing by a tuning fork (Rinne, Weber, Schwabach), with different type of deafness.
- Investigation of hearing by an audiometry, with different type of deafness.
- Vestibulary system
- Anatomy and topography of the mem-bra-nous labyrinth, parts of a labyrinth.
- Adequate stimulus of the ampullaris and otolithic receptor.
- The nystagmus kinds (spontaneous, postrotating, caloric, pressory) and features'.
- The nystagmus law's (Ewald's).
- Investigation of the ampullar receptors by:
  - Rotation test.
- Investigation of the vestibular receptors by otolithic reaction.
- Pharynx, esophagus, larynx, trachea and bronchus.
- Topography of pharynx. Parts of pharynx (margins between them). Communication with other anatomical structures.
- Muscles of the soft palate.
- Lymphatic pharyngeal ring.
- Histological structure of palatine tonsils.
- Anatomy, physiology & methods investigation of the oesophagus (gullet). Topography of the gullet constriction.
- Topography, floor of the laryngis.
- Cartilages, joints and membranes of the laryngis.
- Innervation of the laryngis: topography of superior laryngeal & inferior nerve (place of his blockade). Nose and paranasal sinuses
- Nasal meatus, their topography & opened up in them sinus.
- Structure of concha nasales. Localisation & functions of the cavernosus tissue inside the nasal cavity.
- Physiology of nose (functions).
- Peculiarity of the Kisselbach's area.
- Methods investigations of the nose & respiratory and olfactory function.
- Clinical anatomy of the maxillary sinus.
- Clinical anatomy of the frontal sinus.
- Clinical anatomy of the ethmoidal sinus.
- Clinical anatomy of the sphenoidal sinus.
- Acute external and middle otitis, mastoiditis

41. Local & diffuse external otitis. Symptoms, treatment.
42. Acute middle otitis, periods of development, symptoms, treatment.
43. Sequel of Acute middle otitis.
44. Clinical forms of the mastoiditis (subperiosteal abscess, zygomaticitis, petrositis, apico-neck forms), symptoms, treatment (conservative and surgical).
45. Acute and chronic katar of middle ear (eustachianitis): mechanism of development, symptoms, treatment. Chronic purulent middle otitis. Labirynthitis.
46. Differential diagnosis of the chronic meso- and epitimpanitis.
47. Surgical treatment of chronic otitis. Radical mastoidectomy.
48. Tympanoplasty. Indications and contra-indication. Types of tympanoplastica.
49. Local labyrinthitis: cause, symptoms, treatment.
50. Diffuse labyrinthitis: forms, symptoms, treatment.
51. Differential diagnosis of the diffuse serosal and purulent (suppurative) labyrinthitis. Otogenic intracranial complication
52. Otogenic meningitis: classification, symptoms, treatment (surgical, conservative). Subdural absces. Symptoms, treatment. Extradural absces: symptoms, treatment.
53. Abscesses of the temporal lobe of brain. Groups of symptoms, treatment.
54. Abscesses of the cerebellum. Groups of symptoms, treatment.
55. Sinustrombosis&otogenic sepsis: symptoms, treatment.
56. Indications to Radical and simple antro-mastoid-ectomy. «Golden rule».
57. Sensoneural deafness. Otosclerosis. Menier's disease.
58. Sensoneural deafness: etiology, symptoms, treatment.
59. Otosclerosis: Clinical and patomorphological forms (stages), symptoms, treatment.
60. The Menier disease: etiology, pathogenesis, treatment.
61. Acute tonsillitis&pharyngitis. Peritonsillar, Retro- & Lateropharyngeal abscess. Diphtheria of pharyngis.
62. Acute tonsillitis: classification (etiology, clinical, localization).
63. Catarrhal, membranous, follicular form of acute tonsillitis: sign, symptoms, treatment.
64. Acute Mononuclear tonsillitis: etiology, symptoms, symptoms, treatment.
65. Plaut-Vincent Acute tonsillitis. Symptoms, treatment,
66. Diphtheria of pharyngis: forms, symptoms, treatment.
67. Paratonsillar abscess (quinsy): etiology, symptoms, treatment.
68. Retrotonsillar abscess: etiology, clinic, symptoms, treatment, complication.
69. Acute&Chronic pharyngitis: symptoms, treatment.
70. Differential diagnosis of the catarrhal acute tonsillitis and acute pharyngitis. Chronic tonsillitis&pharyngitis. Adenoids.
71. Symptoms of chronic tonsillitis.
72. Classification of chronic tonsillitis. Conservative treatment of chronic tonsillitis.
73. Indications and contraindication to the tonsil-ectomy.
74. Hypertrophy of palatine tonsils: symptoms, treatment.
75. Differential diagnosis between hypertrophy of the palatine tonsils and chronic tonsillitis.
76. Hypertrophy of nasopharyngeal tonsil (adenoids): symptoms, treatment. Acute and chronic rhynitis.
77. Acute rhynitis, Stages. Treatment.
78. Diphtheria of nose: forms, symptoms, treatment.
79. Chronic hypertrophy rhynitis: forms, symptoms, treatment.
80. Differential diagnosis of chronic catarrhal and hypertrophy rhynitis.
81. Differential diagnosis of chronic atrophy rhynitis with ozena and scleroma.
82. Allergic rhynitis: etiology, symptoms, treatment.
83. Vasomotor rhynitis: etiology, symptoms, treatment.
84. Acute and chronic sinusitis.
85. Acute and chronic maxillitis: sign, treatment.
86. Acute and chronic frontitis: sign, treatment.
87. Acute and chronic ethmoiditis: sign, treatment.
88. Acute and chronic aphenoiditis: sign, treatment.
89. Orbital complications of sinusitis.
90. Conservative method treatment of sinusitis.
91. Acute & Chronic laryngitis.

92. Subchordal Laryngitis: symptoms, treatment. Diphtheria of laryngis: symptoms, treatment.
93. Laryngotracheobronchitis obturans. Symptoms, treatment. Laryngeal stenosis.
94. Flash-like stenoses: causes.
95. Acute stenoses: causes. SubAcute stenoses: causes.
96. Chronic stenoses: causes. The stages of stenosis.
97. Medical therapy of Acute stenoses.
98. Indication for intubation of the trachea.
99. Indications for tracheotomy, conicotomy: technique of surgery, complications after surgery. Tumors.
100. Malignant tumours of nose and paranasal sinuses: stages, groups of symptoms, treatment. Malignant tumours of laryngis: stages, TNM classification.
101. Clinical peculiarity depending on localization tumors of larynx. Treatment: surgical, irradiation, chemiotherapeutic.
102. Angiofibroma of base skull: etiology, histological structure, symptoms, treatment.
103. Papillomatosis of the larynx: etiology, symptoms (forms of papilloms), treatment.
104. Fibroma (angiofibroma) of vocal cord: causes, symptoms, treatment. Rhyno-scleroma.
105. Rhynoscleroma: etiology, morphological and clinical stages (forms).
106. Methods of verification of rhynoscleroma.
107. Treatment of rhynoscleroma (medical, dilatation, surgical).
108. Tuberculosis of laryngis: symptoms, treatment. Blockade of superior laryngeal nerve: Indications, technique. Traumas.
109. Damage of auricle. Otohaematoma. Symptoms, treatment, complications.
110. Damage of external meatus: mechanism, symptoms, treatment.
111. Longitudinal & transversal fracture of the temporal bone pyramid. Symptoms.
112. Peripheral air-contusion of the ear (ear-drum, middle and internal ear). Mechanism of formation. The pathological changes in a ear, treatment.
113. Haematoma, abscess of the nasal septum: symptoms, treatment.
114. Deflection of the nasal septum: mechanism of formation, symptoms, treatment.

**6. Types of training sessions:** lecture, practical lesson, consultation.

**7. Form of study:** full-time .

**8. Teaching methods:** verbal, explanatory-demonstration.

**9. Control methods:** oral, written, test.

**10. Forms of final control:** final modular control: differentiated test

**11. Tools for diagnosing learning success:** questions for current control, tasks, tests.

**12. Language of instruction :** Ukrainian, English.

### **13. The system of evaluating the success of students with ENT diseases**

#### **System of assessment of students' progress in ENT diseases**

#### **Value system of student's academic performance in ENT diseases**

The form of control and assessment system is carried out in accordance with the requirements of the discipline program and instructions adopted by the decision of the Academic Council, protocol № 2 from 30.06.2017 according to the "Regulations on the organization of the educational process at Vinnytsia National Medical University. E. Pirogov »

The student is admitted to the differentiated test if the requirements of the curriculum are met and if there are no omissions of lectures, practical classes and negative grades.

The grade for the module is defined as the sum of grades of current performance (according to the scale of conversion of traditional grades into rating points) adopted by the decision of the Academic Council of VNMU, protocol № 2 dated 28.09.2010.

The maximum number of points assigned to students when mastering the module - 200 points, including for current educational activities -120 points, according to the results of the final module control - 80 points. The final module control is credited to the student if he scored at least 50 points out of 80 points.

The organization of constant control of current performance gives the chance to improve quality of preparation of the student at the expense of activization of systematic independent work during academic year.

Criteria for assessing the response of students in the process of learning and self-education.

Assessment is "excellent" with a clear, comprehensive answer to the topic under discussion, when the student uses in addition to the main, additional literature, lecture material, as well as knowledge obtained at other departments (physiology, neurology, etc.), complements the answers of students.

Grade "good" - the student gives a comprehensive, clear answer on this topic using the main literature, lecture material, complements the answers of satisfactory students.

Assessment "satisfactory" - the student's answer is not quite clear, covers more than 50% of the given topic, does not go beyond the data of the textbook, lecture.

Grade "unsatisfactory" - the student's answer is not clear, covers less than 50% of the lecture material and textbook; the student answers uncertainly, with significant intervals between phrases, waits for a hint, tries to look at the synopsis, etc.

Assessment of students' practical skills is given based on the results of the first final lesson "Final control of knowledge - skills in methods and techniques of endoscopic and functional examination of ENT organs" and subsequent observation of students' work during outpatient care, supervision, etc.

The score for the differentiated test corresponds to the scale:

Assessment WOULD Ali

5 80-71 points

4 70-61 points

3 60-50 points

#### **Distribution of points that students receive for individual work:**

1. Writing an abstract - 4 points
2. Production of tables, videos - 6 points
3. Participation in student scientific conferences - 8 points
4. Participation in interuniversity competitions and international student scientific conferences - 10 points
5. Prizes at intra-university competitions - 11 points
6. Prizes at interuniversity competitions and international student scientific conferences - 12 points

#### **Scheme of accrual and distribution of points received by students**

Scale for conversion of traditional grades into rating points (200 points) for disciplines ending with credit and Scale for conversion of traditional grades into rating points (120 points) for disciplines ending with final control (PC), adopted by the Academic Council of VNMU protocol number 2 from 28.09.10.

Instructions for assessing exams and differentiated tests according to the decision of the Academic Council of VNMU from 27.09.2012. (in the main provisions for the organization of the educational process).

#### **Assessment scale: national and ECTS**

The sum of points for all types of educational activities	ECTS assessment	Score on a national scale	
		for exam, course project (work), practice	for offset
180-200	A	perfectly	credited
170-179,99	B	fine	
160-169,99	C		
141-159,99	D	satisfactorily	
122-140,99	E		
0-121,99	FX	unsatisfactory with the possibility of reassembly	not credited with the possibility of re- assembly

	<b>F</b>	unsatisfactory with mandatory re-study of the discipline	not enrolled with mandatory re-study of the discipline
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#### 14. Course policy

The policy of the course is carried out according to the Law "On Higher Education" from 01.07.2014 № 1556-VII; , Charter of VNMU. MI Pirogov, Rules of Procedure of VNMU, Regulations on the organization of the educational process in VNMU. MI Pirogov, Code of Academic Integrity, Security Regulations on the procedure for training and testing of knowledge, Order of VNMU. E. Pirogov from 25.08.2020 №90 “ On the organization of the educational process in the autumn-winter semester of 2020-2021 academic year on the combined (classroom-distance) form of education in the conditions of adaptive quarantine, in connection with the spread of covid - 19” paragraph 1 .

#### 15. List of educational and methodical literature

##### Basic:

1. Otorhinolaryngology: a textbook / D.I. Заболотный, Ю.В. Mitin, S.B. Bezshapochny, Yu.V. Деева. - К .: ВСВ «Медицина», 2010. - 472 с.
2. Mitin Yu. V. Otorhinolaryngology (lectures). - К .: Фарм Арт, 2000. - 185 с.
3. Otorhinolaryngology: a textbook / D.I. Zabolotny, Yu.V. Mitin, S.B. Bezshapochny, Yu.V. Deeva. - К .: ВСВ «Медицина», 2011. - 496 с.
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#### **Information resources**

- electronic site of the department <http://www.vnmu.edu.ua>
- electronic site of the library <http://library.vsmu.edu.ua/>
- electronic site of the National Library of Ukraine named after VI Vernadsky;
- electronic site of the National Scientific Medical Library of Ukraine;
- electronic database of scientific publications of the National Medical Library of the US National Institutes of Health .
- educational portal of NMU named after OO Worshipers;

Discussed and recommended at the meeting of the Department of ENT diseases  
National Pirogov Memorial Medical University, Vinnytsya Protocol №1 dated 30.08.2023

Head of the department



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signature last name and initials

The teacher is responsible  
for the discipline



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