

**MINISTRY OF HEALTH OF UKRAINE  
KHARKIV NATIONAL MEDICAL UNIVERSITY**

Department of Otorhinolaryngology

Academic year 2021-2022

**SYLLABUS OF THE COURSE  
"Otorhinolaryngology"**

Normative or optional educational component	Normative
Form of education:	Full-time
Area of knowledge	22 "Health"
Specialty	222 "Medicine"
Educational and professional program	" Medicine "
The second (master's) level of higher education	
Course	4

The syllabus of the discipline was considered at a meeting of the Department of Otorhinolaryngology

Protocol from  
"30" August 2021 № 1

Head of Department  
  
\_\_\_\_\_ A.V. Lupyr

Approved by the methodical commission of KhNMU on the problems of professional training of surgical profile

Protocol from  
"30" August 2021 № 1

Head  
  
\_\_\_\_\_ Syplyviy V.O.

### **Course team:**

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3. Shushliapina Natalia Olegivna– Candidate of Medical Sciences, Associate Professor.
4. Yurevych Nadia Oleksandrivna– Candidate of Medical Sciences, Associate Professor.
5. Kalashnyk-Vakulenko Yulia Mykhailivna– Candidate of Medical Science, Associate Professor.
6. Karchynsky Olexander Olexandrovych– teaching assistant.
7. Bondarenko Olga Volodymyrivna– teaching assistant.
8. Dzyza Alla Vasilyevna - teaching assistant.

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## INTRODUCTION

**The syllabus of the discipline** "Otorhinolaryngology" is compiled in accordance with the educational-professional program (hereinafter - OPP) "Otorhinolaryngology" and the Standard of Higher Education of Ukraine (hereinafter - the Standard), the second (master's) level, field of knowledge 22 "Health", specialty Dentistry ».

### **Description of the discipline (annotation)**

Otorhinolaryngology is a clinical discipline that studies the morphology, physiology and pathology of the upper respiratory tract and ear. Modern otorhinolaryngology is engaged in the diagnosis and treatment of both acute and chronic diseases of the ENT organs and related areas. Most of these pathological conditions require surgical intervention: in the ear, in the nasal cavity, in the paranasal sinuses, in the pharynx, larynx and trachea. Endoscopic methods for the study and treatment of diseases of ENT organs are widely used. A large number of operations and manipulations, in particular on the ear and larynx, are performed using an operating microscope.

Otorhinolaryngology plays a large social role. This is due to the fact that it studies the work of most analyzers (auditory, vestibular, olfactory and taste). Violation of the normal work of these analyzers significantly affects the quality of life of people, their professional activities.

Given the close anatomical, topographic and reflex connections with other organs, often there is the possibility of serious complications that often threaten the health and life of patients.

The object of activity - the preservation of health, prevention and treatment of otorhinolaryngological diseases of a person.

Theoretical content of the subject area: knowledge on the prevention, diagnosis and treatment of ENT diseases.

Methods and techniques: anamnestic, clinical, laboratory, instrumental methods of diagnosis, determining the leading symptoms and syndromes, determining the preliminary and clinical diagnosis of otorhinolaryngological diseases and emergency conditions; their diagnosis, treatment and prevention.

Instruments and equipment (objects, devices and apparatus that the higher education applicant learns to use and use): modern diagnostic, medical and other equipment, objects and devices for carrying out professional activities.

**The subject of study** - a variety of pathological conditions and diseases of ENT organs.

**Interdisciplinary communications:** otorhinolaryngology is closely connected with such disciplines as anatomy, physiology, histology, biochemistry, pathomorphology, pathological physiology, medical genetics, internal medicine, neurosurgery, ophthalmology, maxillofacial surgery, general surgery, oncology, infectious diseases.

**Prerequisites.** The study of the discipline involves the preliminary mastering of credits in otorhinolaryngology.

**Post-requisites.** The main provisions of the academic discipline should be applied in the study of special disciplines.

**Link to the discipline page in MOODLE**  
<http://31.128.79.157:8083/course/index.php?categoryid=35>

## **1. Aims and objectives of the discipline**

**1.1. The purpose of teaching** the educational discipline is to study and assimilate students of theoretical and practical issues of otorhinolaryngology, familiarization with the proportion of diseases of the ENT organs in general pathology, with the importance of timely detection and elimination of diseases of the ear, throat and nose in the prevention of general morbidity and health improvement of the population, with the principles and methods of dispensary work.

Teaching the course of otorhinolaryngology also pursues the goal of educating students in a scientific worldview, high ideology, conviction, as well as fostering a high political and moral culture, a principled attitude towards deviations that occur from the norms of ethical morality, deontological education with the aim of bringing to consciousness and mastering by students the skills of observing the principles medical ethics and the norms governing the behavior of healthcare professionals.

The set goals of teaching otorhinolaryngology are achieved through the use of appropriate methodological techniques aimed at developing active cognitive activity of students in the process of mastering knowledge and practical skills, ensuring their independent work with specific tasks, as well as UDRS and NIRS.

**1.2. The main tasks of studying the discipline "otorhinolaryngology"** is to provide students with knowledge of their specialty in accordance with the current state of medical science.

In the course of training, students should ensure a deep assimilation of a complex of modern knowledge on otorhinolaryngology, taking into account their role in the formation of a scientific worldview - the only scientific and methodological basis for studying the object and subject of modern medicine.

Coverage of the problems of otorhinolaryngology, fostering a creative attitude towards learning in students, interest in scientific and medical research should be combined with the presentation of ethics and medical deontology.

Familiarization of students with the peculiarities of the study of ENT organs, endoscopy and functional study of hearing, vestibular function, smell, taste. Show the significance of the results of this examination in the general clinical examination of a sick person, in identifying pathology from other organs and systems. To reconcile these data with a holistic concept of the functioning of the body, its state under normal and pathological conditions.

To acquaint students with the etiology, pathogenesis, clinical picture, diagnosis, prevention and treatment of ENT diseases, which are often encountered and have social significance, and also require emergency assistance.

To teach students the endoscopic and necessary functional methods for examining the nose, pharynx, larynx and ear, practical skills in providing emergency ENT care for injuries, foreign objects, burns and other acute diseases of the ENT organs.

In studying of the etiology and pathogenesis of certain diseases, it is necessary to pay attention to the importance of hereditary-constitutional factors with the help of



modern scientific theories, and also pay special attention to the role of external factors - social, domestic, etc. For the implementation of the tasks, the methodological developments provide for clarity and consistency in the study of the course of otorhinolaryngology with the wide use of visual aids and technical teaching aids.

**1.3.1.** The study of the discipline provides students with the acquisition of competencies:

**integral:**

Ability to solve typical and complex specialized problems and practical problems in professional activities in the field of health care, or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements.

**general:**

1. Ability to apply knowledge in practical situations.
2. Knowledge and understanding of the subject area and understanding of the profession.
3. Ability to choose a communication strategy; ability to work in a team; interpersonal skills.
4. Ability to communicate in the native language both orally and in writing; ability to communicate in a second language.
5. Skills in the use of information and communication technologies.
6. Ability to abstract thinking, analysis and synthesis, the ability to learn and be modernly trained.

7. Definiteness and perseverance in terms of tasks and responsibilities.

8. Ability to act socially responsible and socially conscious.

**special (professional, subject):**

1. Ability to establish a preliminary clinical diagnosis of the disease.
2. Skills of gathering information about the patient.
3. Ability to evaluate the results of laboratory and instrumental research.
4. Ability to determine the principles and nature of treatment of diseases.
5. Ability to diagnose emergencies.
6. Ability to determine the tactics of emergency medical care.
7. Skills of emergency medical care.
8. Ability to determine the required mode of work and rest in the treatment of diseases.
9. Ability to determine therapeutic nutrition in the treatment of diseases.
10. Ability to determine the tactics of contingent of persons subject to dispensary supervision.

**1.3.2.** The study of the discipline provides students with the acquisition of the following **program learning outcomes:**

PLO1. Identify and identify leading clinical symptoms and syndromes; according to standard methods, using preliminary data of the patient's anamnesis, data of the patient's examination, knowledge about the person, his organs and systems, to establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease.

PLO 2. Collect information about the general condition of the patient, assess the

psychomotor and physical development of the patient, the condition of the maxillofacial area, based on the results of laboratory and instrumental studies to assess information about the diagnosis.

PLO 3. To prescribe and analyze additional (mandatory and optional) methods of examination (laboratory, radiological, functional and / or instrumental) of patients with diseases of the organs and tissues of the oral cavity and maxillofacial region for differential diagnosis of diseases.

PLO 4. Determine the final clinical diagnosis in accordance with 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 doctor in a medical institution.

PLO 5. To diagnose emergencies under any circumstances (at home, on the street, in a medical institution), in an emergency, martial law, lack of information and limited time.

PLO 13. Determine the tactics of emergency medical care, using the recommended algorithms, under any circumstances on the basis of a diagnosis of emergency in a limited time.

PLO 14. Analyze and evaluate state, social and medical information using standard approaches and computer information technologies.

PLO 17. Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.

PLO 18. To be aware of and guided in its activities by civil rights, freedoms and responsibilities, to raise the general cultural level.

PLO 19. Adhere to the requirements of ethics, bioethics and deontology in their professional activities.

PLO 20. To organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.

PLO 21. Perform medical manipulations on the basis of preliminary and / or final clinical diagnosis for different segments of the population and in different conditions.

1.3.3. The study of the discipline provides students with the following **social skills (Soft skills)**:

- communicativeness (implemented through: the method of group work and brainstorming during the analysis of clinical cases, the method of presenting the results of independent work and their protection in the group),
- teamwork (implemented through: group work method and brainstorming during the analysis of clinical cases),
- conflict management (implemented through: business games),
- time management (implemented through: the method of self-organization during classroom work in groups and independent work),
- leadership skills (implemented through: the method of presenting the results of independent work and their defense in the group).

## 2. INFORMATION VOLUME OF THE EDUCATIONAL DISCIPLINE

Name of indices	Branch of knowledge, direction of training, educational-qualification level	Characteristics of the course	
		Day tuition	
Number of credits – 3	Direction of training 22 “Health Care”	Standard	
Total number of hours - 90	Specialty 222 “Medicine”	<b>Year of study:</b>	
		4 <sup>th</sup>	
		<b>Семестр</b>	
		7 <sup>th</sup>	8 <sup>th</sup>
		<b>Lectures</b>	
Number of hours for day tuition: Practical classes – 40 Independent work - 50	Educational-qualification level: «second (master's) level»	6 hours	
		<b>Practical classes, seminars</b>	
		34 hours	
		<b>Independent work</b>	
		50 hours	
		Type of control: grading test	

### 2.1 Discipline’ description

#### 2.2.1 Lectures

No.	Topics title	Number of hours	Types of lectures
1	The concept of otorhinolaryngology as a science. History of its development. Injuries of the ear. Diseases of the external ear. Exudative otitis. Acute purulent otitis media. Presentation of acute otitis media in infectious diseases. Mastoiditis. Chronic inflammation of the middle ear. Conservative and operative methods of treatment of chronic otitis media. Otogenic intracranial complications.	2	Problem reading, lecture-visualization online and offline
2	Physiology of the nose. Injuries of the nose. Nosebleeds. Furuncle of the nose. Acute rhinitis. Acute diseases of the paranasal sinuses. Chronic rhinitis. Chronic diseases of the paranasal sinuses. Rhinogenic intraorbital and intracranial complications. Neoplasms of the nose and paranasal sinuses.	2	Problem reading, lecture-visualization online and offline
3	Physiology of the pharynx. Acute tonsillitis (sore throat). Paratonsillar and pharyngeal abscesses,		Problem reading,

	parapharyngitis. Acute pharyngitis. Hypertrophy of the lymphoid tissue of the pharynx. Chronic tonsillitis. Chronic pharyngitis. Pharyngeal tumors. Clinical anatomy and physiology of the larynx. Injuries of the larynx. Stenoses of the larynx. Tracheostomy. Acute and chronic inflammation of the larynx. Paresis of the larynx. Neoplasms of the larynx.	2	lecture-visualization online and offline
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### 2.2.3 Practical classes

No.	Topics title	Number of hours	Methods of studding	Forms of control
1.	Chronic otitis media (epitympanitis and mesotympanitis). Methods of treatment (conservative and operative). Major surgeries. Tympanoplasty Otogenic intracranial complications: extradural abscess, sigmoid sinus thrombosis, meningitis, brain and cerebellum abscess.	4	story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, simulation game, modeling of processes and situations, debate	oral questioning; written survey; test control; creative tasks; report; speech on the topic
2.	Injuries of the ears: direct and indirect (othematoma, perichondritis of the auricle, fractures of the walls of the external auditory passage, tympanic membrane, longitudinal and transverse fractures of the pyramid of the temporal bone, foreign bodies, cerumen and epidermal plugs, furuncles, diffuse inflammation, eczema. Adhesive otitis media. Acute otitis media. Otitis in infectious diseases. Mastoiditis. Atypical forms of otitis and mastoiditis (mucous otitis, zygomatic abscess, petrositis, apical-cervical forms of mastoiditis).	5	story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, simulation game, modeling of processes and situations, debate	oral questioning; written survey; test control; creative tasks; report; speech on the topic

3.	<p>Chronic otitis media (epitympanitis and mesotympanitis). Methods of treatment (conservative and operative). Major surgeries. Tympanoplasty Orogenic intracranial complications: extradural abscess, sigmoid sinus thrombosis, meningitis, brain and cerebellum abscess.</p>	5	<p>story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, simulation game, modeling of processes and situations, debate</p>	<p>oral questioning; written survey; test control; creative tasks; report; speech on the topic</p>
4	<p>Physiology of the nose. Diseases of the nose: defects and deformities of the external nose, furuncles of the nose. Diseases of the nasal cavity: acute rhinitis, chronic (catarrhal, hypertrophic, atrophic) vasomotor rhinitis (neurovegetative and allergic forms), curvature of the nasal septum. Nosebleeds.</p>	5	<p>story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, simulation game, modeling of processes and situations, debate</p>	<p>oral questioning; written survey; test control; creative tasks; report; speech on the topic</p>
5	<p>Acute and chronic diseases of the maxillary, frontal and main cavity of ethmoid sinuses. Intracranial and intraorbital complications in diseases of the nose and paranasal sinuses. Pathogenesis, presentation, diagnosis. Methods of treatment, prevention.</p>	5	<p>story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, simulation game, modeling of</p>	<p>oral questioning; written survey; test control; creative tasks; report; speech on the topic</p>

			processes and situations, debate	
6	Acute pharyngeal diseases: acute pharyngitis: tonsillitis, pharyngeal abscess, acute paratonsillitis. Diphtheria of the pharynx. Chronic pharyngeal disease. Tumors of the pharynx (benign and malignant). Chronic pharyngitis, chronic tonsillitis. Principles of follow-up treatment of chronic tonsillitis. Adenoids. Hyperplasia of palatine tonsils. Fungal disorders of the pharynx: pharyngomycosis, candidiasis, leptotrichosis. Acute and chronic diseases of the larynx. Paresis and paralysis of the laryngeal muscles. Benign and malignant laryngeal tumors.		story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, simulation game, modeling of processes and situations, debate	oral questioning; written survey; test control; creative tasks; report; speech on the topic
7	Emergency care in ENT diseases. Infectious granulomas of ENT organs. ENT examination. The work of an otorhinolaryngologist in draft committee. Work in dressing and operating rooms. <b>Computer test. Grading test</b>		story-explanation, conversation, illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, simulation game, modeling of processes and situations, debate	oral questioning; written survey; test control; creative tasks; report; speech on the topic
	Total hours of practical classes	34		

### 2.2.5 Independent work

№	Topics title	Number of hours	Methods of studying	Forms of control
1.	<b>Preparation for practical training - theoretical preparation and practical skills development</b>	<b>34</b>	story-explanation, conversation,	oral questioning; written survey;

			illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, simulation game, modeling of processes and situations, debates.	test control; creative tasks; report; presentation on a given topic.
2.	<b>Independent study of topics that are not included in classroom training sessions</b>	<b>10</b>	story-explanation, conversation,	
	Modern problems of hearing-related operations.	3	illustration, demonstration, presentation,	oral questioning; written survey; test control; creative tasks; report; presentation on a given topic.
	New methods of diagnosis and treatment of sensorineural hearing loss.	3	videos, videos, discussion,	
	Rhinoplasty.	2	business, role-playing, simulation game,	
	Functional diseases of the vocal apparatus.	2	modeling of processes and situations, debates.	
3.	<b>Individual independent work of students</b>	<b>6</b>	story-explanation, conversation,	
	Writing an essay "Modern methods of diagnosing hearing impairment"	2	illustration, demonstration,	oral questioning; written survey; test control; creative tasks; report; presentation on a given topic.
	Writing an essay "Immunodiagnosics, prevention and treatment of chronic tonsillitis"	2	presentation, videos, videos, discussion,	
	Mastering the technique and technique of performing cricoconicotomy, tracheostomy	2	business, role-playing, simulation game,	
			modeling of processes and situations, debates.	

Total hours of student self-study	50		
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**Teaching methods (only those that are used during the teaching of the discipline are given):** story-explanation, conversation, lecture, illustration, demonstration, presentation, videos, videos, discussion, business, role-playing, imitation play, modeling of processes and situations, debate.

**Control methods (only those that are used during the teaching of the discipline are given):**

*Current control:* oral questioning; written survey; test control; creative tasks; report; presentation on a given topic.

*Final control:* differential credit.

### 3. EVALUATION CRITERIA

**3.1.** Evaluation of the academic performance of applicants for education is carried out on the basis of the current "Instructions for assessing the educational activities of applicants for education at KhNMU"

The recalculation of the average grade for current control into a multi-point scale is carried out in accordance with the "Instructions for the assessment of educational activities of applicants for higher education at Kharkiv National Medical University"

Table 1

#### Calculation of the average mark for current learning activity in a multi-scale (for courses ending with a grading test)

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-point scale	120-point scale
4.12- 4.15	99
4.08- 4.11	98
4.04- 4.07	97
3.99-4.03	96
3.95- 3.98	95

4-point scale	120-point scale
3.1- 3.12	73
3.07- 3.09	72
3.04-3.06	71
3.0-3.03	70
Less than 3	Insufficient

### 13.2 Conducting and evaluating differentiated offset

Table 7

Assessment of theoretical knowledge and practical skills, if they are presented in one ticket.

Number of questions	“5”	“4”	“3”	Oral answer for questions that include the theoretical part of the course	For each answer the student receives 10 to 16 points, which corresponds to: “5” - 16 points; “4” - 13 points; “3” - 10 points.
2	16	13	10		
3	16	13	10		
4	16	13	10		
5	16	13	10		
	80	65	50		

### 13.3 Discipline Assessment

Table 3

#### Grading scale in KhNMU

Mark in 200-point scale	Mark in ECTS scale	Mark in 4-point (national) scale
180–200	A	Excellent
160–179	B	Good
150–159	C	Good
130–149	D	Satisfactory
120–129	E	Satisfactory
Less than 120	F, Fx	Unsatisfactory

### **3.2 List of questions for differential credit:**

1. Epiglottitis abscess: clinic, treatment
2. Adenoid vegetation: clinical picture, treatment
3. Anatomy of the lymphadenoid pharyngeal ring. Age features of the lymphadenoid tissue of the pharynx
4. Atypical forms of mastoiditis
5. The structure of the otolith apparatus. adequate stimuli
6. The structure of the spiral organ. Adequate stimulus for auditory analysis of the torus
7. Vestibular nuclei and their connections
8. Types of decompensation of chronic tonsillitis, formulation of the diagnosis
9. Types of ear surgery for chronic suppurative otitis media
10. Age features of the development of the paranasal sinuses
11. Hematoma and perichondrium of the auricle
12. Acute sinusitis: clinic, treatment
13. Acute suppurative otitis media. Etiology, pathogenesis, clinic
14. Acute and chronic sphenoiditis clinic, treatment
15. Acute catarrhal laryngitis: etiology, clinic, treatment
16. Acute mastoiditis: definition, clinic, diagnosis, treatment. antromastoidotomy
17. Acute stenosing laryngotracheitis in children. intensive therapy
18. Differential diagnosis of epitympanitis and mesotympanitis
19. Differential diagnosis of lesions of sound-conducting and sound-receiving devices
20. Benign tumors of the larynx
21. Retharyngeal abscess in children clinic, treatment
22. Ewald's laws and patterns of nystagmenoi reaction
23. Malignant tumors of the pharynx: localization, clinic, methods
24. Malignant tumors of the nose and paranasal sinuses: diagnosis, treatment
25. The importance of nasal breathing for the development of the child's body.

## Research methods of the nose and paranasal sinuses

26. Otitis externa: forms, etiology, clinic, treatment

27. Innervation of the larynx

28. History of the Department of Otorhinolaryngology of the University

29. History of development of otorhinolaryngology in Ukraine

30. Catarrhal sore throat: clinic, treatment.

31. Clinical anatomy of the tympanic membrane. Features of the location and structure of the tympanic membrane in young children

32. Clinical anatomy of the external ear

33. Clinical anatomy of the sphenoid sinus

34. Clinical anatomy of the mastoid process. Types of structure of the mastoid process. Age features

35. Clinical anatomy, physiology of the auditory tube. Features of its structure in childhood

36. The clinical significance of the paranasal cavities. Clinical anatomy of the maxillary sinus

37. Conservative treatment of chronic suppurative otitis media

38. Blood supply and innervation of the nasal cavity

39. Bleeding from the ear

40. Labyrinthitis: forms, clinic, treatment

41. Leptotrichosis clinic, treatment

42. Treatment of acute purulent otitis media

43. Treatment of acute purulent otitis media in the pre-perforative stage.

## Indications and technique for paracentesis

44. Treatment of acute and chronic sensorineural hearing loss

45. Treatment of Meniere's disease. Treatments for Acute Vestibular Dysfunction

46. Methods of examination of the ampullary receptor (caloric, rotating, pressor test)

47. Methods of examination of the pharynx

48. Methods of examination of the larynx in adults and children

49. Sound conduction mechanism (air, bone conduction)
50. Nasal bleedings: causes, symptoms, methods of stopping
51. Ozena clinic, differential diagnosis, treatment principles
52. Burns of the esophagus: causes, pathological anatomy, clinical stages
53. The main stages of development of otorhinolaryngology as an independent medical discipline
54. The main directions of development and achievements of modern otorhinolaryngology
55. Features of the course of acute purulent otitis media in infectious diseases: influenza, scarlet fever, measles, tuberculosis
56. Features of the course of acute purulent otitis media in young children
57. Orogenic meningitis clinic and treatment
58. Orogenic brain abscesses: clinical picture, treatment
59. Otosclerosis: pathogenesis, clinic, modern methods of surgical treatment
60. Papillomatosis of the larynx in adults and children.
61. Paresis and paralysis of the larynx: causes, laryngoscopic picture, principles of treatment
62. First aid for burns of the esophagus
63. Principles of early diagnosis of laryngeal cancer
64. Cancer of the larynx: etiology, localization, clinic, stages of development of the disease
65. Rhinogenic intracranial complications: routes of infection, types of complications, principles of treatment
66. Rhinogenic infraorbital complications: routes of infection,
67. Sensorineural hearing loss: causes, clinic
68. Sinus thrombosis and otogenic sepsis: clinical picture, treatment
69. Syphilis of the upper respiratory tract: clinical features, differential diagnosis
70. Sulfur plug, clinic, methods of removal
71. Scleroma of the upper respiratory tract: etiology, pathology, stages, treatment
72. Auditory bones and muscles of the tympanic cavity

73. Spontaneous vestibular disorders
74. Stages of laryngeal stenosis, principles of treatment (medication, prolonged intubation, tracheotomy)
75. Stenosis of the larynx: definition of the concept, causes of acute and chronic stenosis of the larynx
76. Walls and floors of the tympanic cavity
77. Foreign bodies of the bronchi: types of stenosis, clinic, methods of removal
78. Foreign bodies of the ear, ways to remove them
79. Foreign bodies of the pharynx: clinic, treatment
80. Foreign bodies of the larynx clinic, methods of removal in adults and children
81. Foreign bodies of the respiratory tract: causes of aspiration, history, characteristics of foreign bodies
82. Foreign bodies of the respiratory tract: causes of aspiration, history, characteristics of foreign bodies
83. Foreign bodies of the nose. Removal tools.
84. Foreign bodies of the esophagus clinic, diagnostics, methods of removal
85. Foreign bodies of the esophagus clinic, diagnostics, methods of removal
86. Foreign bodies of the trachea: clinic, methods of removal
87. The structure of the tonsils, blood supply, innervation
88. Theories of sound perception
89. Ear trauma, traumatic rupture of the tympanic membrane
90. Injuries to the nose and paranasal sinuses: classification, clinical picture, treatment.
91. Tracheostomy: indications, its variants, technique of execution
92. Tuberculosis of the upper respiratory tract: clinical manifestations, differential diagnosis
93. Complications of acute purulent otitis media
94. Complications of foreign bodies of the esophagus clinic, therapeutic tactics
95. Physiology of the lymphadenoid pharyngeal ring
96. Follicular tonsillitis: clinic, treatment

97. Meniere's disease: etiology, pathogenesis, clinic
98. Surgical treatment of laryngeal cancer, its types, indications
99. Chondroperichondritis of the larynx: causes, clinic, treatment
100. Chronic purulent inflammation of the middle ear: mandatory signs, classification
101. Chronic sinusitis: forms, clinic, treatment
102. Chronic hypertrophic rhinitis: clinical picture, differential diagnosis, treatment
103. Chronic purulent epitympanitis. Cholesteatoma. Diagnostics, clinic, treatment
104. Chronic purulent mesotympanitis, clinic, methods
105. Chronic polyposis sinusitis: etiology, clinic, complex treatment
106. Ways and stages of the spread of infection from the ear to the cranial cavity
107. Juvenile angiofibroma of the nasopharynx: clinical picture, diagnosis, methods of removal.

### **3.3 Control questions**

1. Anterior and posterior rhinoscopy, video endoscopic examination of the nose and paranasal sinuses.
2. Direct and indirect laryngoscopy, fibroscopy, tracheobronchoscopy, esophagoscopy, microlaryngoscopy ..
3. Clinical and anatomical features of the structure of the outer ear.
4. Clinical and anatomical features of the structure of the middle ear.
5. Clinical and anatomical features of the structure of the inner ear.
6. Physiological aspects of sound-conducting, sound-perceiving, vestibular functions.
7. Basic anatomical, topographic and clinical aspects of the structure of the upper respiratory tract and esophagus.
8. The main clinical manifestations of ear diseases.
9. Causes and mechanisms of development of ear diseases and the occurrence of their complications.
10. Diagrams of diagnostics and treatment of typical cases of ear diseases and plans of therapeutic measures depending on the clinical course of the pathological process.
11. Analysis and interpretation of the results of clinical and laboratory methods of ear examination.
12. Differential diagnostic criteria for the main clinical manifestations of ear diseases.
13. Means of hearing aids, depending on the nature of the impairment of hearing function.
14. Forecast for the recovery and restoration of auditory and vestibular functions in

patients with ear pathology.

15. The main clinical manifestations of diseases of the upper respiratory tract.

16. Causes and mechanisms of development of diseases of the upper respiratory tract and the occurrence of their complications.

17. Diagrams of diagnostics and treatment of typical cases in diseases of the upper respiratory tract and plans of therapeutic measures, depending on the clinical course of the pathological process.

18. Analysis and interpretation of the results of clinical and laboratory research methods of the nose, paranasal sinuses, pharynx, larynx.

19. Differential diagnostic criteria for the main clinical manifestations of diseases of the upper respiratory tract.

20. Forecast for the recovery and restoration of functions in patients with upper respiratory tract pathology.

21. The main causes and clinical manifestations of urgent states of the ENT organs.

22. Pathogenetic mechanisms of development of urgent diseases of ENT organs.

23. Differential diagnostic criteria for the main clinical manifestations of urgent ENT conditions to assess the patient's condition.

24. Analysis and interpretation of the results of clinical and laboratory research methods of the nose, paranasal sinuses, pharynx, larynx, trachea, bronchi and esophagus in urgent diseases.

25. Algorithms of diagnostic and therapeutic tactics for injuries, bleeding, foreign bodies of the ENT organs.

26. The main methods of providing urgent care for injuries and bleeding of the upper respiratory tract, foreign bodies of the upper respiratory tract, esophagus and ears.

27. The prognosis for the recovery and restoration of functions in patients with urgent ENT pathology.

### **3.4 Individual assignments**

1. Preparation of abstract reports (10sc.).

2. Preparation of presentations for topics of classes using electronic resources (10 sc.).

3. Application of the technology "Thematic crossword puzzle" (drawing up crosswords according to the topic of the lesson) (10 sc.).

4. Application of technology "Critical thinking" (compilation of syncwines according to the topic of the lesson) (10 sc.).

5. Preparation for play techniques (role-playing games) (10 sc.).

6. Work in the student scientific circle (according to the plan) (10 sc.).

7. Preparation of reports for student scientific and practical conferences (10 sc.).

### **3.6 Evaluation appeal rules**

1. The procedure for appealing the results consists of three stages: filing a complaint, considering the complaint, making and publishing the decision of the appeal commission.

2. Submission of a complaint is carried out by the student in person in writing on the day of the announcement of the results of delivery of the differential test. The

person authorized by the rector accepts the complaint in the form of a written application. In response to filing a complaint, the person who received the complaint must inform the date and place of the meeting of the appeal commission.

3. If the person who disputes the results wishes to add additional documents to the appeal, then she must do this when filing the complaint. There is no need to add additional exam papers.

4. An appeal must be considered at a meeting of the appeal commission no later than the next two working days after its submission.

5. The meeting is conducted exclusively by the chairman of the commission or, if he is absent for valid reasons, the person is determined by the majority of the members at the meeting of the appeal commission.

6. The meeting of the appeal commission must be accompanied by the keeping of the minutes in the form indicated.

7. Responsibility for keeping the minutes of the meeting of the appeal commission rests with the secretary of the commission.

8. The student who filed a complaint has the right to be present at all meetings of the appeal commission on his own complaint. In his absence, the secretary of the commission must make a corresponding entry in the minutes of the meeting.

9. A meeting is considered illegal if 1/3 of the total number of members is absent.

10. At the meeting of the appeal commission, it is allowed to announce a break.

11. At one meeting of the appeal commission, several appeals may be considered

12. The scheduling of meetings of all appeal panels must be made public.

13. Registered complaints, orders on the creation of appeal commissions, registers of complaints and minutes of meetings of the appeal commissions must be kept in the training department for 1 year.

14. Copies of the registered complaint of the order on the creation of the appeal commission and the minutes of its meeting are attached to the student's personal file.

#### **4. COURSE POLITICS AND VALUES**

Academic expectations of students and female students. Course requirements.

Students and female students are expected to attend all lectures and workshops. If they missed classes, it is necessary to complete it (according to the schedule at the information stand of the department).

Written and homework assignments must be completed in full and on time, if students / female students have questions, they can contact the teacher personally.

During the lecture, students and female students are encouraged to take notes of the lesson and maintain a sufficient level of silence. Asking questions to the lecturer is absolutely normal.

Practical classes

Active participation in the discussion in the classroom, students / female should be ready to understand in detail the material, ask questions, express their point of view, discuss. During the discussion, the following are important:

- respect for colleagues,
- tolerance towards others and their experiences,
- sensitivity and impartiality,
- the ability to disagree with opinions, but respect the personality of the opponent,









