

Стом-21 ИИ

Federal State Budgetary Educational Institution of Higher Education  
«North-Ossetia State Medical Academy»  
of the Ministry of Healthcare of the Russian Federation



APPROVED BY

Rector of FSBEI HE NOSMA  
MOH Russia

O.V. Remizov

24 May 2023

**ACADEMIC PROGRAM FOR  
"OTORHINOLARYNGOLOGY"**

the main professional educational program of higher education - specialty program in the  
specialty 31.05.03 Dentistry , approved on 24.05.2023

Form of education Full-time

The period of mastering 5

Department of Otorhinolaryngology with ophthalmology

Vladikavkaz, 2023

# Стом-21 ИИ

The academic program is based on:

1. Federal State Educational Standard of Higher Education on specialty 31.05.03 Dentistry, approved by the Ministry of Education and Science of the Russian Federation on August, 12, 2020 №984
2. Syllabus for specialty 31.05.03 Dentistry, Стом-21-01-21, Стом-21-02-22, Стом-21-03-23; approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation on “24” May 2023, Protocol № 8.

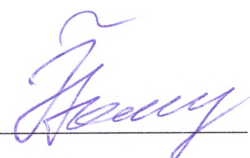
The academic program of the discipline was approved at a meeting of the department of otorhinolaryngology and ophthalmology on "28" April, 2023, Protocol №. 9

The academic program of the discipline was approved at a meeting of the central coordinating training and methodological council on "23" May, 2023, Protocol №. 5

The educational training program of the discipline was approved by the Scientific Council of the State Medical University of the Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation on “24” May, 2023, Protocol № 8

## **Developed by:**

Head of the Department of  
Otorhinolaryngology and Ophthalmology,  
Doctor of Medical Sciences, Associate Professor



E.T. Gappoeva

## **Reviewed by:**

Associate Professor of the General Surgery department  
of FSBEI HE “ Kabardino-Balkarian state university a  
fter Kh.M. Berbekov”

Course of otorhinolaryngology,  
Candidate of Medical Sciences Lovpache Z. N.

Professor of the department of Psychiatry and Neurology,  
Neurosurgery and Medical Genetics  
FSBEI HE NOSMA, Doctor  
of Medical Sciences Torchinov I.A.

### **Contents of the academic program**

1. Name of the discipline;
2. List of planned learning outcomes of the discipline, correlated with the planned learning outcomes of the educational program;
3. Place of the discipline in the structure of the educational program;
4. Total number of credits indicating the number of academic or astronomical hours allocated for contact work of students with a teacher (by type of training) and for independent work of students;
5. Contents of the discipline, structured by topics (sections), indicating the number of academic or astronomical hours allocated for them and types of training;
6. List of educational and methodological materials for independent work of students on the discipline;
7. Assessment tools for interim assessment of students in the discipline;
8. List of core and additional bibliography necessary for mastering the discipline;
9. List of information and telecommunication "Internet" resources (hereinafter - the "Internet"), necessary for mastering the discipline;
10. Methodology guidelines for students for mastering the discipline;
11. List of information technologies used in teaching the discipline, including a list of software and information reference systems (if necessary);
12. Description of the material and technical base necessary for the implementation of the educational process in the discipline ;
13. Conducting educational activity using e-learning and distance learning technologies

**2. List of planned learning outcomes of the discipline and the learning outcomes of the curriculum**

№	Competence number/index	Contents of the competence or its section	Lesson subject	Competence Achievement Indicators	Outcomes		
					To know	To know how to	To be able to apply
1	2	3	4	5	6	7	8
1.	UC-1	Ability to analyze critically problem situations based on a systematic approach, develop an action strategy	Introduction into otorhinolaryngology (its contents, tasks and place among other branches of medicine). The history and ways of development of otorhinolaryngology	ID-1 UC-1 Be able to identify problem situations and search for the necessary information to solve problems in the professional field. ID-2 UC-1 Be able to form value judgments in the professional field ID-3 UC-1 Be able to conduct a critical analysis of information using the historical method	Definition of otorhinolaryngology as a special clinical discipline of a surgical profile with a preventive focus. The interrelation between ENT diseases with the pathology of other organs and systems. The meaning of analyzers located in the ENT organs. The social significance of otorhinolaryngology. The history of the profession development, its stages, schools of domestic otorhinolaryngologists, their successes and achievements, prominent scientists.	To assess the severity of the disease, its connection with the pathology of the ear, nose, pharynx and larynx, the possibility of serious complications and ability to promptly send the patient to get specialized care.	The ideas about the place of otorhinolaryngology among other branches of medical knowledge;

2.	GPC-5	Ability to examine the patient for diagnosis	<p>Clinical anatomy, physiology and examination methods of the nose and paranasal sinuses. The structure of the nasal mucosa. Features of the structure of the nasal cavity in young children. Respiratory, olfactory, reflex, protective and resonator functions of the nose. The role of nasal breathing in the formation of the dental system in children. Clinical anatomy, physiology and examination methods of the pharynx, its divisions and layers, blood supply and innervation, paratonsillar and pharyngeal tissue, pharyngeal space.</p>	<p>ID-1 GPC-5 Know the algorithm of clinical examination of the patient. ID-2 GPC-5 To be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 GPC-5 Know the algorithm of clinical, laboratory and functional diagnostics in solving professional problems. ID-4 GPC-5 To be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.</p>	<p>Clinical anatomy of the external nose and nasal cavity. Choan infection. Nasal septum, its deformities; indications and types of operations on the nasal septum. The mucous membrane of the respiratory and olfactory region.</p> <p>Clinical anatomy, physiology and examination methods of the pharynx, its sections and layers, blood supply and innervation, paratonsillar and pharyngeal tissue, pharyngeal space. Lymphadenoid pharyngeal ring.</p>	<p>Based on the anamnesis and symptoms, make a preliminary diagnosis and, if necessary, refer the patient for a consultation with a specialist, an otorhinolaryngologist.</p>	<p>The basic principles of the anatomical features of the external nose, nasal cavity, pharynx, lymphadenoid pharyngeal ring.</p>
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			Lymphadenoid pharyngeal ring. Methods for examining the nose, paranasal sinuses and pharynx.				
3.	GPC-5	Ability to examine the patient for diagnosis	Clinical anatomy, physiology and examination methods for the larynx, trachea, bronchi and esophagus. Cartilages, joints, ligaments and muscles of the larynx and their functions. The structure of the mucous membrane of the larynx. Respiratory, protective, voice and speech functions of the larynx. The structure of the esophagus. Methods for the study of the larynx, trachea, bronchi and esophagus.	ID-1 GPC-5 Know the algorithm of clinical examination of the patient. ID-2 GPC-5 To be able to draw up a plan for laboratory and instrumental diagnostics. ID-3 GPC-5 Know the algorithm of clinical, laboratory and functional diagnostics in solving professional problems. ID-4 GPC-5 To be able to evaluate the results of clinical, laboratory and functional diagnostics in solving professional problems.	Cartilage, joints, ligaments and muscles of the larynx, its blood supply and innervation, structural features of the mucous membrane. Respiratory, protective, phonatory and speech functions. Sexual and age characteristics of the singing voice, examples of opera role. Diseases with edema and stenosis of the larynx, their diagnosis, clinic, principles and methods of treatment.	To diagnose stenosis of the larynx, provide emergency assistance for edema and stenosis of the larynx, provide appropriate treatment and send the patient for emergency assistance to a specialized institution. Determine the type of singing voice.	Diagnosis of laryngeal stenosis, methods of providing emergency care for edema and stenosis of the larynx, appropriate treatment methods Methods for determining the type of singing voice.

4.	<b>GPC-6</b>	Ability to prescribe and monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	Diseases of the nose and paranasal sinuses: deviated septum, nasal furuncle, acute and chronic rhinitis, acute and chronic sinusitis. Rhinogenic complications, clinic, diagnostics, treatment. Congenital anomalies of development. Nose injuries, nosebleeds, nosebleed stop technique, nasal foreign bodies. Tumors and granulomas of the nose and paranasal sinuses.	ID-1 GPC-6 To be able to conduct effective, safe therapy based on the clinical recommendations of the Ministry of Health of Russia	Nose functions. Furuncle of the nose. Hematoma and abscess of the nasal septum. Nasal bleeding and methods of stopping it. The structure and topography of the paranasal sinuses, their age characteristics and significance in the pathology of ENT organs in children. The connection of the maxillary sinus with the development of the dentoalveolar system. Acute rhinitis and features of its course in young children, treatment, prevention. Causes of chronic rhinitis, pathomorphological changes. Classification: catarrhal, hypertrophic, atrophic (simple and ozena), vasomotor (neurovegetative and allergic forms) rhinitis. Pathogenesis, clinic, principles of treatment. Acute and chronic sinusitis -	Based on the anamnesis and symptoms, make a preliminary diagnosis and, if necessary, refer the patient for a consultation with a specialist, an otorhinolaryngologist	Basic principles of conservative and surgical treatment of diseases of the external nose, nasal cavity; Principles of diagnosis; conservative and surgical treatment; additional examination methods: diaphanoscopy, survey and contrast radiography, probing, puncture.
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					<p>pathoanatomical changes, classification, general and local symptoms. Additional research methods: diaphanoscopy, survey and contrast radiography, probing, puncture. Treatment is conservative, surgical. Intraorbital and intracranial complications of inflammatory diseases of the nose and paranasal sinuses — pathogenesis, clinic, diagnosis, principles of treatment. Indications for surgery on the paranasal sinuses.</p>		
5.	<b>PC-1</b>	Ability to examine the patient for diagnosis	<p>Throat diseases. Acute and chronic pharyngitis. Angina, classification of angina, diphtheria of the pharynx. Paratonsillitis. Peritonsillar abscess (odontogenic). Chronic tonsillitis, classification, clinic and treatment. Adenoids. Injuries</p>	<p>ID-1 Be able to conduct physical examinations and interpret their results. ID-2 Be able to identify general and specific signs of dental diseases. ID-3 Be able to interpret the results of the initial examination of patients.</p>	<p>Classification of tonsillitis. Acute primary tonsillitis - catarrhal, lacunar, follicular and ulcerative-membranous tonsillitis. Complications of angina: paratonsillitis, paratonsillar abscess, lateropharyngeal abscess, tonsillogenic mediastinitis and sepsis. Acute secondary tonsillitis - tonsillitis in</p>	<p>Make a diagnosis of tonsillitis, pharyngitis, prescribe appropriate treatment, and if there are complications, refer the patient to an otorhinolaryngologist for specialized assistance.  Formulate a diagnosis of chronic tonsillitis in accordance with its classification and choose a method of treatment</p>	<p>Therapeutic measures for acute pharyngitis, tonsillitis and their complications. Conservative treatment methods for chronic tonsillitis, indications for surgical treatment.</p>



			<p>and foreign bodies of the pharynx. Tumors and infectious granulomas of the pharynx.</p> <p>ID-4 Be able to interpret the results of the re-examination of patients.</p> <p>ID-5 Be able to justify the need and scope of laboratory examination.</p> <p>ID-6 Be able to justify the need and scope of instrumental examination.</p> <p>ID-7 Be able to justify the need and scope of additional examinations of patients (including radiographs, teleroentgenograms, radiovisiograms, orthopantomograms, tomograms (on film and digital media))</p> <p>ID-8 Be able to conduct a general clinical examination of children and adults.</p> <p>ID-9 Be able to justify the need to refer patients for</p>	<p>infectious diseases (diphtheria, scarlet fever, tularemia, typhoid fever) and in diseases of the blood system (infectious mononucleosis, agranulocytosis, alimentary-toxic aleukia, leukemia). Therapeutic measures for acute tonsillitis and their complications. Acute pharyngitis, differential diagnosis with catarrhal angina. Classification of chronic tonsillitis: specific for infectious granulomas and nonspecific. Chronic nonspecific tonsillitis - statistical information, pathogenesis, reliable local signs. Compensated and decompensated forms, examples of diagnosis. Diseases associated with tonsillitis. Conservative methods of treatment of chronic tonsillitis, indications</p>	
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				<p>consultation to specialists.</p> <p>ID-10 Be able to analyze the results of the examination</p> <p>ID-11 Be able to justify and plan the scope of additional examination.</p> <p>ID-12 Be able to interpret the results of collecting information from patients (their relatives/legal representatives)</p> <p>ID-13 Be able to identify clinical signs of acute and chronic craniofacial pain of somatic, neurogenic and psychogenic origin.</p> <p>ID-14 Be able to diagnose caries, pulp and periodontal disease, periodontal disease, oral mucosa.</p> <p>ID-15 Be able to interpret laboratory data.</p>	<p>for surgical treatment. Tonsillectomy, tonsillotomy, galvanoacoustics, diathermocoagulation of the tonsils, cryotherapy, laser lacunotomy and destruction. Possible complications of surgery. The role of general hygienic and sanitation measures in the prevention of tonsillitis. Clinical examination of patients with chronic tonsillitis. Hypertrophy of the palatine and pharyngeal tonsils - symptoms and treatment. Acute adenoiditis in infants and young children.</p>		
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				<p>ID-16 To be able to diagnose defects in the dentition, periodontal pathology, complete absence of teeth.</p> <p>ID-17 Be able to interpret the data of instrumental examination.</p> <p>ID-18 Be able to interpret the data of consultations of patients by medical specialists.</p> <p>ID-19 Be able to interpret the data of additional examinations of patients (including radiographs, teleroentgenograms, radiovisiograms, orthopantomograms, tomograms (on film and digital media))</p> <p>ID-20 Be able to diagnose dentoalveolar deformities and anomalies of teeth and jaws; identify risk factors for</p>			
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				oncopathology (including various background processes, precancerous conditions) ID-21 Be able to use individual protective gear			
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6.	<b>PC-1</b>	Ability to examine the patient for diagnosis	<p>Diseases of the larynx. Laryngitis - acute and chronic, etiology, clinic, treatment.</p> <p>Subglottic laryngitis, diphtheria of the larynx, acute and chronic stenosis of the larynx. Clinic, emergency care. Foreign bodies of the larynx, trachea, bronchi and esophagus.</p> <p>Emergency care for these diseases. Tumors and infectious granulomas of the larynx.</p>	<p>ID-1 Be able to conduct physical examinations and interpret their results.</p> <p>ID-2 Be able to identify general and specific signs of dental diseases.</p> <p>ID-3 Be able to interpret the results of the initial examination of patients.</p> <p>ID-4 Be able to interpret the results of the re-examination of patients.</p> <p>ID-5 Be able to justify the need and scope of laboratory examination.</p> <p>ID-6 Be able to justify the need and scope of instrumental examination.</p> <p>ID-7 Be able to justify the need and scope of additional examinations of patients (including radiographs, teleroentgenograms, radiovisiograms, orthopantomograms,</p>	<p>Cartilage, joints, ligaments and muscles of the larynx, its blood supply and innervation, structural features of the mucous membrane. Respiratory, protective, phonatory and speech functions. Gender and age characteristics of the singing voice, examples of opera parts. Diseases characterized by edema and stenosis of the larynx, their diagnosis, clinic, principles and methods of treatment.</p>	<p>Diagnose stenosis of the larynx, provide emergency care for edema and stenosis of the larynx, provide appropriate treatment and refer the patient for emergency care to a specialized institution.</p> <p>Determine the type of singing voice.</p>	<p>Diagnosis of stenosis of the larynx, methods of emergency care for edema and stenosis of the larynx, appropriate methods of treatment. Methods for determining the type of singing voice.</p> <p>Diagnosis of stenosis of the larynx, methods of emergency care for edema and stenosis of the larynx, appropriate methods of treatment. Methods for determining the type of singing voice.</p>
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7.			<p>Ear diseases. External otitis, furuncle of the external auditory canal, sulfur plug, foreign bodies in the ear. Acute purulent inflammation of the middle ear, mastoiditis, anthritis.</p>		<p>Causes, pathogenesis, clinical symptoms, stages of external otitis and acute otitis, pathomorphological changes, otoscopic manifestations depending on the stage of the process, outcomes and complications. Indications for paracentesis. Peculiarities of the clinical course in childhood. Otoanthritis, indications for anthropuncture and antrodrainage. Clinical forms of acute mastoiditis, symptoms, otoscopic picture. Conservative and surgical treatment. Indications for surgery and anthrotomy technique. Preventive actions. Acute otitis in infectious diseases - influenza, scarlet fever, measles, tuberculosis.</p>	<p>Based on clinical symptoms, make a preliminary diagnosis of otitis externa, acute otitis media, anthritis, mastoiditis, chronic otitis media and promptly refer the patient to an otorhinolaryngologist.</p>	<p>Paracentesis technique. anthropuncture, and antrodrainage. Methods of conservative and surgical treatment; indications for surgery; preventive measures</p>
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### 3. Place of the discipline in the structure of the educational program;

The discipline of “Otorhinolaryngology” belongs to the basic part of Block1 of FSES HE for the specialty of 31.05.03 Dentistry.

### 4. Amount of hours for the discipline

№ № i/i	Activity type	Total credits	Total hours	Term VIII
				hours
1	2	3	4	5
<b>1</b>	<b>Contact work of students with teacher (total), including:</b>		48	48
2	Lectures (L)	-	14	14
3	Clinical practice (CP)	-	34	34
<b>4</b>	<b>Students' independent work (SIW)</b>		24	24
<b>5</b>	<b>Type of interim assessment</b>	Credit (C)	+	+
<b>6</b>	<b>Total: Workload</b>	hours	72	72
		Credits	2	2

### 5. Contents of the discipline

item/№	Term №	Name of the discipline section	Types of learning activities, including students' independent work (in hours)				Forms of progress current assessment (by term weeks)
			L	CP	SIW	total	
1	2	3	4	5	6	7	8
1	VIII	General questions of otorhinolaryngology	7	11	7	25	Pr., I, CA, T
1.1	VIII	Introduction to the specialty. History of otorhinolaryngology	1	1	1	3	Pr., I, CA, T
1.2	VIII	Research methods, clinical anatomy, physiology of nose and paranasal sinuses.	1	1	1	3	Pr., I, CA, T

1.3	VIII	Research methods, clinical anatomy, physiology of the pharynx and esophagus.	0,5	1	1	2,5	<i>HW, CA, ACC, T, I, DO</i>
1.4	VIII	Research methods, clinical anatomy, physiology of the larynx.	0,5	1	1	2,5	<i>HW, CA, ACC, T, I, DO</i>
1.5	VIII	Clinical anatomy, physiology and research methods of the trachea and bronchi.	0,5	1	1	2,5	<i>HW, CA, ACC, T, I, DO</i>
1.6	VIII	Research methods, clinical anatomy, physiology of the outer and middle ear, inner ear	3,5	6	2	11,5	<i>HW, CA, ACC, T, I, DO</i>
2	VIII	Diseases of the nose and paranasal sinuses.	1	4	5	10	<i>HW, CA, ACC, T, I, DO</i>
2.1	VIII	Injuries of the nose and paranasal sinuses	0,25	1	1	2,25	<i>Pr., ACC, I, CA, T, HW, DO</i>
2.2	VIII	Diseases of the external nose and nasal cavity.		1	1	2	<i>ACC, I, CA, T, HW, DO</i>
2.3	VIII	Inflammatory diseases of the nose.	0,25	1	1	2,25	<i>Pr., ACC, I, CA, T, HW, DO</i>
2.4	VIII	Inflammatory diseases of the paranasal sinuses.	0,5	1	2	3,5	<i>ACC, I, CA, T, HW, DO</i>
3	VIII	Diseases of the pharynx, esophagus and neck.	1	4	2	7	<i>Pr., ACC, I, CA, T, HW, DO</i>
3.1	VIII	Acute diseases of the pharynx.	0,5	2	1	3,5	<i>ACC, I, CA, T, HW, DO</i>
3.2	VIII	Chronic diseases of the pharynx	0,5	2	1	3,5	<i>ACC, I, CA, T, HW, DO</i>



4	VIII	Diseases of the larynx, trachea and bronchi.	1	4	2	7	ACC, I, CA,T, HW, DO
4.1	VIII	Acute diseases of the larynx.	0,25	1	0,5	1,75	ACC, I, CA,T, HW, DO
4.2	VIII	Chronic diseases of the larynx.	0,25	1	0,5	1,75	ACC, I, CA,T, HW, DO
4.3	VIII	Acute and chronic stenosis of the larynx.	0,5	2	1	3,5	Pr., I, CA, T
5	VIII	Ear diseases.	2	9	5	16	Pr., I, CA, T
5.1	VIII	Diseases of the outer ear	0,5	2	1	3,5	Pr., I, CA, T
5.2	VIII	Acute and chronic diseases of the middle ear.	0,5	2	1	3,5	ACC, I, CA,T, HW, DO
5.3	VIII	Inner ear diseases	0,5	3	1	4,5	ACC, I, CA,T, HW, DO
5.4	VIII	Otogenic intracranial complications	0,5	1	1	2,5	ACC, I, CA,T, HW, DO
5.5	VIII	Ear injuries and wounds.		1	1	2	ACC, I, CA,T, HW, DO
6	VIII	ENT neoplasms	1	1	2	4	ACC, I, CA,T, HW, DO
6.1	VIII	Neoplasms of the nose and paranasal sinuses	0,25	0,25	0,5	1	Pr., ACC, I, CA,T, HW, DO
6.2	VIII	Pharyngeal neoplasms.	0,25	0,25	0,5	1	ACC, I, CA,T, HW, DO
6.3	VIII	Laryngeal neoplasms.	0,25	0,25	0,5	1	Pr., ACC, I, CA,T, HW, DO

6.4	VIII	Ear neoplasms.	0,25	0,25	0,5	1	ACC, I, CA,T, HW, DO
7	VIII	Specific diseases of the ENT organs	1	1	1	3	Pr., ACC, I, CA,T, HW, DO
		<b>Total :</b>	14	34	24	72	ACC, I, CA,T, HW, DO

**Note:**

<b>Pr.</b>	assessment of the development of practical skills (abilities)
<b>ACC</b>	analysis of clinical cases (clinical analysis)
<b>I</b>	assessment based on the results of the interview (oral survey)
<b>CA</b>	comprehensive knowledge assessment
<b>T</b>	testing
<b>DO</b>	disciplinary olympiad
<b>HW</b>	checking written homework

**6. List of educational and methodological materials for independent work of students on the discipline**

<b>№/item</b>	<b>Term №</b>	<b>Name of the educational and methodological work</b>
<b>1</b>	<b>VIII</b>	Gappoeva E.T., Kudzieva V.P. Guidelines for independent work in otorhinolaryngology for students of the department of general medicine // NPKP «MAVR», Ltd. – Vladikavkaz, 2022. - 76 p.
<b>2</b>	<b>VIII</b>	Gappoeva E.T. Guidelines for practical training in otorhinolaryngology for students of medical universities // NPKP «MAVR», Ltd. – Vladikavkaz, 2022. - 135 p.
<b>3</b>	<b>VIII</b>	Gappoeva E.T. A textbook on otorhinolaryngology for students studying of "General Medicine" and "Medical Preventive Care".- UMO - 17-29/481// NPKP «MAVR», Ltd.». – Vladikavkaz, 2022. - 147 p.
<b>4</b>	<b>VIII</b>	Gappoeva E.T., Kudzieva V.P. Tests in otorhinolaryngology // NPKP «MAVR», Ltd.». – Vladikavkaz 2017. - 98 p.
<b>5</b>	<b>VIII</b>	Fidarova K.M., Kudzieva V.P., Galueva Z.R. Glossary in otorhinolaryngology // NPKP «MAVR», Ltd.». – Vladikavkaz 2022. - 33 p
<b>6</b>	<b>VIII</b>	Gappoeva E.T., Kudzieva V.P. Cases in otorhinolaryngology // NPKP «MAVR», Ltd.». – Vladikavkaz 2022. - 115 p.

**7. Assessment tools for interim assessment of students in the discipline;**

<b>№/item</b>	<b>Competence list</b>	<b>Term №</b>	<b>Assessment indicator(s)</b>	<b>Assessment criterion(a)</b>	<b>Grading scale</b>	<b>Name of the assessment tool</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>1</b>	UC-1	<b>VIII</b>	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	Examination cards for the credit; Tests; Cases
<b>2</b>	GPC-5	<b>VIII</b>	See education quality assessment standard approved by	See education quality assessment standard approved by	See education quality assessment standard approved	Examination cards for the credit; Tests; Cases

			FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	
<b>3</b>	GPC-6	<b>VIII</b>	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	Examination cards for the credit; Tests; Cases
<b>4</b>	PC-1	<b>VIII</b>	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	See education quality assessment standard approved by FSBEI HE NOSMA of the Ministry of healthcare of Russia , order №264/o as of 10.07.2018	Examination cards for the credit; Tests; Cases

### 8. List of core and additional bibliography necessary for mastering the discipline

item/ №	Name	Author (s)	Year, place of publis hing	Number of copies	At the depar tment
				In the library	
1	2	3	4	5	6
<b>Core bibliography</b>					
1.	Otorhinolaryngo logy: textbook	Palchu n V. T., A. I. Kryuko v, Magom edov M. M.	M.: GEOT AR- Media 2020	25	
				«Student's consultant» <a href="http://www.studmedlib.ru/book/ISBN978597054732.html">http://www.studmedlib.ru/book/ISBN978597054732.html</a>	
2.	Methodological guide to practical training in otorhinolaryngol ogy for students of medical universities: a textbook	Gappo eva E.T.	Vladik avkaz, 2012		20
3.	A textbook on otorhinolaryngol ogy for students of "General Medicine" and "Medical Preventive Care"	Gappo eva E.T.	Vladik avkaz, 2012		20
4.	Болезни носа, глотки, гортани и уха: учебник	Овчин ников Ю.М., Гамов В. П.	М. : Медиц ина, 2003	27	
<b>Additional bibliography</b>					

1.	Болезни носа, глотки, гортани и уха: учебник	Овчинников Ю.М., Гамов В. П.	М. : Медицина, 2003	27	
2.	Атлас онкологических операций	ред. В.И. Чиссов, А.Х. Трахтенберг, А. И. Пачес	М.: ГЭОТ АР-Медиа, 2008	«Student's consultant» <a href="http://www.studmedlib.ru/ru/book/ISBN9785970407127.html">http://www.studmedlib.ru/ru/book/ISBN9785970407127.html</a>	
3.	Оториноларингология (с курсом видео- и медиалекций).	Лучин Л. А.	М. : Эксмо, 2008	1	
4.	Обследование оториноларингологического больного (Examination of ENT patient).	Пальчун В. Т. [и др.].	М. : Литтепра, 2014.	1	
5.	Оториноларингология: национальное руководство	Пальчун В. Т.	М. : ГЭОТ АР-Медиа, 2008	12	
6.	Болезни уха, горла и носа. Краткое руководство для врачей и студентов	Бартон М.	СПб. : Невский диалект; М. : Бином, 2002	1	
7.	Избранные клинические лекции по оториноларингологии.	Гюсан А.О.	Мед. книга, 2014	1	

СОГЛАСОВАНО  
Зав. библиотекой

## 9. List of information and telecommunication "Internet" resources necessary for mastering the discipline

3. «Student's consultant»  
[www.studmedlib.ru/ru/book/ISBN9785970415429.html](http://www.studmedlib.ru/ru/book/ISBN9785970415429.html)  
[www.studmedlib.ru/ru/book/ISBN9785970418406.html](http://www.studmedlib.ru/ru/book/ISBN9785970418406.html)  
[www.studmedlib.ru/ru/book/ISBN9785970410714.html](http://www.studmedlib.ru/ru/book/ISBN9785970410714.html)  
[www.studmedlib.ru/ru/book/ISBN9785970416235.html](http://www.studmedlib.ru/ru/book/ISBN9785970416235.html)
4. Provision of medical care:  
<http://www.rspor.ru/index.php?mod1=standarts3&mod2=db1>
5. Interregional Society of Evidence-Based Medicine Specialists.  
<http://www.osdm.org/index.php>
6. Moscow centre of evidence-based medicine  
<http://evbmed.fbm.msu.ru/>
7. Microsoft Office
8. PowerPoint;
9. Acrobat Reader;
10. Internet Explorer
11. Information and legal system "Garant
12. Information and legal system «Consultant»
13. Information system "State Register of Medicines"

## 10. Methodology guidelines for students for mastering the discipline

Training consists of classroom lessons (48hours), including a lecture course (14 hours) and practical training (34 hours), and independent work (24 hours). The main study time is allocated for practical work in otorhinolaryngology to master practical skills:

1.Principles of working with a frontal reflector, headlamp, diagnostic endoscopic equipment and viewing instruments, a technique for examining ear, nose, pharynx and larynx, a description of the endoscopic picture;

2. Provide emergency care for bleeding, trauma, foreign bodies and other acute diseases of the ENT organs;

3. To master practical skills during a cycle of practical lessons:

1. *Anterior rhinoscopy*
2. *Posterior rhinoscopy;*
3. *Mesopharyngoscopy;*
4. *Otoscopy;*
5. *Indirect laryngoscopy;*
6. *Preparation of nasal cotton holders;*
7. *Cleaning the ear canal;*
8. *Rinsing the ear to remove the wax plug and foreign bodies;*
9. *Applying a warming compress to the ear;*

10. Politzerization;
11. examination of auditory function;
12. Study of statokinetic function;
13. Insufflation of drugs in the nose and ear;
14. Anesthesia of the mucous membrane;
15. Introduction of turunda with medications into the ear;
16. Taking microflora and antibiotic sensitivity test;
17. Reading R-gram, CT, MRI images;
18. Applying bandages: on the ear; on the nose;
19. Extinguishing the bleeding vessel of the nasal septum with silver nitrate preparations;
20. Anterior, posterior tamponade;
21. Applying a sling-like bandage;
22. Washing the lacunae of the tonsils;
23. To be able to choose instruments for tracheotomy;
24. Reading ENT - radiographs, MRI and CT;
25. Reception of outpatients.

Practical classes are conducted in the form of theoretical and practical parts, demonstration of case patients and the use of visual teaching aids, videos, presentations, solving situational problems, answering test tasks, and analyzing clinical patients. In accordance with the requirements of the Federal State Educational Standard of Higher Education, active and interactive forms of conducting classes are widely used in the educational process: simulation technologies: role-playing and professional simulation; training in skills using models, mannequins, phantoms; work with patients under the guidance of a teacher; non-imitative technologies: lecture (problematic, visualization, etc.), discussion (with and without brainstorming). The proportion of interactive classes is at least 40% of classroom lessons. Independent work of students implies preparation for the out-of-class independent work of a student for a theoretical course: 1) mastering the lecture material, the student's work on the questions meant for a practical class; 2) the study of the main and additional sources of information for practical training: a) preparing and mastering the content of practical training, registering and handing in the work to the teacher; b) test tasks, and, including the types of student learning activities: 1) independent work under the guidance of a teacher (consultations): student consultations with a teacher on the theoretical course; practicing manual methods of endoscopic examination of ENT organs, studying the functions of the auditory, vestibular, olfactory analyzers, etc., doing tests; 2) independent work on the types of individual tasks and control activities: individual tasks and control of classroom and independent work of the student according to the plan of the educational program, based on the time budget for a specific discipline.

Work with bibliography is considered as a type of educational work in the discipline of otorhinolaryngology and is performed within the hours allotted for its study (in the IWS section). Each student is provided with access to the library funds of the FSBEI HE NOSMA of the Ministry of Healthcare of Russia and the Department of Otorhinolaryngology with Ophthalmology. Methodological guidelines for students have been developed for each section of the discipline. While studying the discipline of otorhinolaryngology, students independently carry out all types of independent work, write essays, educational clinical records. Writing an essay, educational clinical records contribute to the formation of practical skills (abilities). The student's group work



forms a sense of teamwork and sociability. Teaching students helps them develop the skills of communicating with the patient, taking into account the ethical and deontological characteristics of pathology and patients. Independent work of students contributes to the formation of ethical and deontological aspects of medical practice in communication with colleagues, middle and junior medical personnel, children and adolescents, their parents and relatives. The initial level of students' knowledge is determined by testing, the current control of mastering the subject is determined by oral interviews during classes, during clinical analysis, when solving typical cases and answering test tasks. At the end of the study of the discipline "Otorhinolaryngology" the interim control of knowledge is carried out using test control, testing of practical skills and solving cases.

#### **11. List of information technologies used in teaching the discipline, including a list of software and information reference systems**

Microsoft Office  
PowerPoint;  
Acrobat Reader;  
Internet Explorer  
Information and legal system «Consultant»  
**Information system "State Register of Medicines"**

#### **12. Description of the material and technical base necessary for the implementation of the educational process in the discipline**

<b>№/ item</b>	<b>Equipment name</b>	<b>Amount</b>	<b>Condition</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Special equipment</b>			
•	Computer	2	good
•	Laptop	1	good
•	Projector	1	good
•	Copy machines	3	good 2;
•	Monitor display	1	Needs to be replaced
<b>Tables</b>			
1	Thematic tables	50	Needs to be replaced
<b>Phantoms</b>			
1	Head	2	Needs to be replaced
<b>Models</b>			
1	Samples and models for the anatomy of the nose;	2	Needs to be replaced
2	Samples and models for the anatomy of pharynx and oral part of pharynx ;	2	Needs to be replaced

3	Samples and models for the anatomy of larynx, trachea, bronchi, esophagus ;	2	Needs to be replaced
4	Samples and models for the anatomy of ear;	2	Needs to be replaced
<b>ENT tools</b>			
1	Audiotympanometer GSI 38	1	Needs to be replaced
2	Tuning Forks Set	1	Needs to be replaced
3	Siegle funnel	1	Needs to be replaced
4	Politzer baloon	1	Needs to be replaced
5	Otoscope	2	Good
6	Barani chair	1	Needs to be replaced
7	ENT endoscopy tools	50	Good

### **13. Conducting educational activity using e-learning and distance learning technologies**

In the context of restrictive measures (quarantine) associated with an unfavorable epidemiological situation, the threat of the spread of a new coronavirus infection and other force majeure events that do not allow full-time training, it is possible to study this discipline or part of it using e-learning and distance educational technologies. The discipline shall be taught in the above situations through the development of an electronic course with access to video lectures and interactive course materials: presentations, articles, additional materials, tests and various assignments. When conducting training sessions, monitoring progress, as well as interim assessment of students, platforms of the electronic information and educational environment of the academy and / or other recommended e-learning systems, such as Moodle, Zoom, Webinar, etc will be used. Lectures can be presented in the form of audio, video, "live lectures", etc. Conducting seminars and practical classes is possible on-line in both synchronous and asynchronous modes. Seminars can be held in the form of web conferences.