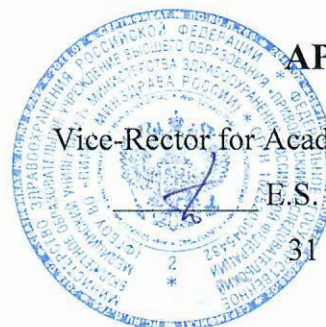


FEDERAL STATE BUDGETARY EDUCATIONAL INSTITUTION
OF HIGHER EDUCATION
"PRIVOLZHISKY RESEARCH MEDICAL UNIVERSITY"
OF THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAMM

Name of the academic discipline: **OTORHINOLARYNGOLOGY**

Specialty: **31.05.03 DENTISTRY**
(code, name)

Qualification: **DENTIST**

Department: **DISEASES OF THE EAR, THROAT AND NOSE**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **72 academic hours**

Nizhny Novgorod
2021

The work program was developed in accordance with the Federal State Educational Standard for the specialty 31.05.03 "Stomatology", approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 984 dated August 12, 2020.

Developers of the working program:

Head of the Department of Ear, Nose and Throat Diseases of the Federal State Budgetary Educational Institution of Higher Education "PIMU" of the Ministry of Health of the Russian Federation, MD, prof. Shakhov Andrey Vladimirovich
Associate Professor of the Department of Ear, Nose and Throat Diseases of the Federal State Budgetary Educational Institution of Higher Education "PIMU" of the Ministry of Health of the Russian Federation, Ph.D. Terentyeva Anna Borisovna

The program was reviewed and approved at a meeting of the department meeting (protocol No. 9 of 04.22.2021)

Head of the Department of Ear, Nose and Throat Diseases of the Federal State Budgetary Educational Institution of Higher Education "PIMU", MD, Associate Professor




(Shakhov A.V.)

April 22, 2021

AGREED

Deputy Head of EMA ph.d. of biology _____ Lovtsova L.V.


(signature)

April 22, 2021

1. The purpose and objectives of mastering the discipline “OTORHINOLARYNGOLOGY”

Otorhinolaryngology is a special clinical discipline of the surgical profile that studies the morphological and physiological features and pathology of the ear, upper respiratory tract and adjacent areas. The study of otorhinolaryngology is necessary for the training of future doctors, since lesions of the upper respiratory tract and ear are common, can cause severe life-threatening complications and lead to permanent disability.

1.1 The purpose of mastering the discipline.

1.1. The purpose of mastering the discipline: (*participation in forming the relevant competencies*).

GPC-5. Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems

GPC-6. Able to: organize patient care, provide primary health care, ensure the organization of work and professional decision-making in case of medical emergency on the prehospital stage, in the conditions of emergency situations, epidemics and in centers of mass destruction

1.2 Tasks of the discipline.

Know:

1. the main methods of examination of an ENT patient (analysis of complaints, clarification of the history of the disease and life history, examination of the ENT organs)
2. rules for issuing and maintaining medical records (outpatient card, inpatient card);
3. main clinical manifestations of pathological conditions in otorhinolaryngology
4. classification and main characteristics of drugs used in otorhinolaryngology;
5. the main manifestations and diagnostic criteria for acute conditions in otorhinolaryngology that are not accompanied by a threat to the patient's life
6. the main manifestations and diagnostic criteria for acute conditions in otorhinolaryngology, accompanied by a threat to the life of the patient
7. the main ways to help patients with emergency pathology of the ENT organs
8. rules for caring for patients with pathology of ENT organs

Be able to:

1. examine a patient with various pathologies of the ENT organs (analysis of complaints, clarification of the history of the disease and life history, local examination of the pathological focus);
1. analyze patient complaints, anamnesis data, results of the main diagnostic methods used in otorhinolaryngology
2. formulate a diagnosis and determine a management plan for the patient
3. fill out an outpatient card, medical history
4. diagnose nosebleeds, install a pneumopacking for epistaxis
5. diagnose the stage of decompensation of stenosis of the larynx and asphyxia, make a tracheostomy toilet
6. apply basic antibacterial, antiviral, biological drugs
7. care for patients with pathology of the ENT organs

Possess:

1. the primary methods of examination of an ENT patient

2. skills in interpreting the results of laboratory, instrumental diagnostic methods used in otorhinolaryngology
3. correct maintenance of medical records;
4. the primary methods of examination of the ENT patient;
5. skills in interpreting the results of laboratory, instrumental diagnostic methods;
6. detailed clinical diagnosis algorithm
7. skills in the use of drugs in the treatment of pathological conditions of ENT organs
8. the skills of washing the maxillary sinus through the catheter
9. the skills of introducing ear, nasal drops
10. the primary medical diagnostic and therapeutic methods for providing first aid in emergency and acute conditions in ENT patients.

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization

2.1 The discipline "Otorhinolaryngology" refers to the core part of Block 1 of GEP HE (Academic discipline index).

The discipline "Otorhinolaryngology" refers to the professional cycle of disciplines.

The discipline is included in the basic component of the doctor's training cycle and is mandatory for study at all faculties: medical, pediatric, medical-prophylactic and dental.

The basic knowledge necessary for studying the discipline is formed in the cycles: humanitarian, social and economic (foreign language, Latin, pedagogy and psychology, philosophy); biophysical, natural science disciplines (anatomy, histology, normal physiology; pathological anatomy; pathological physiology; operative surgery and topographic anatomy, pharmacology, microbiology); professional disciplines (stomatology; neurology, medical genetics; ophthalmology; propaedeutics of internal diseases, radiation diagnostics; clinical pharmacology; infectious diseases, dermatovenereology, pediatrics, oncology, neurology).

2.2 The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

- 1) Human Anatomy - Head and Neck Anatomy
- 2) Pathological anatomy - pathological anatomy of the head and neck
- 3) Topographic anatomy and operative surgery
- 4) Normal physiology - physiology of the maxillofacial region
- 5) *Pathophysiology - pathophysiology of the head and neck*
- 6) *Internal diseases. Clinical pharmacology*

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:

- 1) *Dentistry*
- 2) *Ophthalmology*
- 3) *Neurology, medical genetics and neurosurgery*

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				Know	Be able to	Possess
1	GPC-5.	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems		<p>IOPC 5.1 Knows the methodology for collecting anamnesis of life and diseases, complaints from children and adults (their legal representatives); method of examination and physical examination; clinical picture, methods for diagnosing the most common diseases of ENT organs; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results; international statistical classification of diseases and related health problems (ICD); conditions requiring emergency medical care</p>	<p>IOPC 5.2 Able to: collect complaints, anamnesis of life and disease in children and adults (their legal representatives), identify risk factors and causes of the development of diseases of the ENT organs; apply methods of examination and physical examination of children and adults with pathology of ENT organs; interpret the results of the examination and physical examination of children and adults; to diagnose in children and adults the most common pathology of ENT organs; identify risk factors for cancer; formulate a preliminary diagnosis, draw up a plan for laboratory, instrumental and additional studies in children and adults with the most common diseases of the ENT organs, interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; to carry out differential diagnostics of diseases in children and adults with the most common diseases of ENT organs; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care</p>	<p>IDOPK 5.3 Has practical experience: collecting complaints, anamnesis of life and disease in children and adults (their legal representatives), identifying risk factors and causes of diseases of the ENT organs; examination and physical examination of children and adults; diagnosis of the most common diseases of ENT organs in children and adults; identification of risk factors for major cancers; formulating a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional studies, consultations with specialist doctors; referral of patients for instrumental, laboratory, additional studies, consultations of medical specialists in accordance with the current procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care; interpretation of data from additional (laboratory and instrumental) examinations of patients with the most common pathology of ENT organs; making a preliminary diagnosis in accordance with the international statistical classification of diseases and related</p>

						health problems (ICD); carrying out differential diagnostics of diseases; recognition of conditions arising from sudden acute illnesses, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care
2	GPC-6	Able to: organize patient care, provide primary health care, ensure the organization of work and professional decision-making in case of medical emergency on the prehospital stage, in the conditions of emergency situations, epidemics and in centers of mass destruction		IOTC 6.1 Knows: methods of collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients with pathology of ENT organs; principles and methods of providing medical care to patients in emergencies, in accordance with clinical guidelines, taking into account the standards of medical care; clinical signs of major medical emergencies; organization principles care of patients with pathology of ENT organs, provision of primary health care	IOTC 6.2 Is able to: recognize conditions requiring emergency medical care, requiring emergency medical care; provide emergency medical care to patients in conditions that pose a threat to the life of patients with ENT pathology, use medicines and medical devices in the provision of medical care in emergency conditions in patients with ENT pathology, organize care of patients with pathologies of ENT organs	IOPC-6.3 Has practical experience in: assessing a condition requiring emergency medical care in case of pathology of ENT organs that pose a threat to life, requiring emergency medical care; providing emergency medical care to patients with pathology of ENT organs; the use of drugs and pneumotampons to stop nosebleeds; organization care of patients with tracheostomy

4. Sections of the academic discipline and competencies that are formed when mastering them:

No.	Competence codes	Section name of the discipline	The content of the section in teaching units
1	GPC-5 GPC -6	Clinical anatomy, physiology and research methods of ENT organs	Clinical aspects of anatomy and physiology of ENT organs in adults and adolescents. Communication of diseases of ENT organs with the pathology of other anatomical and physiological systems of the body. General principles of examination of the patient in the ENT room of the clinic and the ENT hospital. Training in the technique of using the frontal reflector and viewing tools. Study of methods of traditional and modern functional clinical and paraclinical diagnostics of ENT diseases.
2	GPC-5 GPC -6	Diseases of the nose and paranasal sinuses	Acute and chronic inflammatory diseases of the nasal cavity and paranasal sinuses: their etiology, pathogenesis, pathomorphology, classification, clinical manifestations and modern methods of conservative and surgical treatment. Intraorbital and intracranial rhinogenic complications:

			pathogenesis, clinic, diagnosis and treatment. Indications for operations on the paranasal sinuses.
3	GPC-5 GPC -6	Diseases of the pharynx	Morphological and physiological characteristics of the lymphadenoid pharyngeal ring, its role in the formation of immunity. Angina - acute and chronic. Classification of angina. The defeat of the tonsils in acute infectious diseases and diseases of the blood system. Diphtheria of the throat. Chronic tonsillitis and its relationship with diseases of the internal organs. Methods for diagnosing chronic tonsillitis. Modern approaches to tactics and treatment of chronic tonsillitis. Indications for surgical methods of treatment.
4	GPC-5 GPC -6	Diseases of the larynx	Acute and chronic diseases of the larynx. Acute laryngitis: etiopathogenesis, clinic, age-related features of the course, diagnosis and treatment. Classification of chronic laryngitis. Standards for their diagnosis and treatment. Oncological alertness, in some forms of chronic laryngitis: facultative and obligate precancer. Cancer tumors of the larynx. Modern methods of diagnosis and principles of treatment of tumor pathology of the larynx.
5	GPC-5 GPC -6	Ear diseases	Acute purulent inflammation of the middle ear. Antrite. Mastoiditis. Atypical forms of mastoiditis. Chronic suppurative otitis media: diagnosis and methods of conservative treatment of meso- and epitympanitis. Sanitizing and functional surgery of "purulent ear". Intra-ear complications of otitis media: paresis of the facial nerve and labyrinthitis; their clinic, diagnosis and treatment. Intracranial complications of otitis media: their main clinical forms and syndromes, modern diagnostic standards and treatment principles. Non-purulent diseases of the ear: otosclerosis, Meniere's disease, sensorineural hearing loss: clinic, diagnosis, treatment.
6	GPC-5 GPC -6	Emergency conditions in otorhinolaryngology	Stenosis of the larynx. Acute stenosing laryngotracheitis in children, clinical symptoms, diagnosis and treatment. Classification of stenosis of the larynx, stages of stenosis, their clinical characteristics; diagnosis and treatment tactics depending on the etiology and stage of stenosis. Indications for intubation and tracheostomy, the technique of their implementation. Foreign bodies of the respiratory tract (larynx, trachea, bronchi) and esophagus. Complications. Clinic, diagnosis, treatment. Nosebleeds: etiology, methods of stopping and hemostatic therapy.

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity in semesters (AH)
	Volume in incredit units (CU)	Volume in inacademic hours (AH)	VIII semester
Classroom work, including	2	48	48

Lectures (L)	-	14	14
Laboratory practicum (LP)*			
Practicals (PC),	-	34	34
Seminars (S)	-	-	-
Student's individual work (SIW)		24	24
Medical history (MH)	-	4	4
Preparation for classes (PC)	-	24	24
Mid-term assessment			
Credit			Credit
TOTAL LABOR INTENSITY	2	72	72

6. Content of the academic discipline

6.1 Sections of the discipline and types of classes.

	Semester	Name of the section of the academic discipline	Types of academic work* (in AH)			
			Lectures	Practicals	SIW	Total
1	VIII	Otorhinolaryngology				
1.1		Clinical anatomy, physiology, methods of investigation of ENT organs	0	16	4	20
1.2		Diseases of the nose and paranasal sinuses	2	6	4	12
1.3		Diseases of the pharynx	2	2	4	8
1.4		Diseases of the larynx	2	2	4	8
1.5		Ear diseases	4	6	4	14
1.6		Emergency conditions in otorhinolaryngology	4	2	4	10
		Total	14	34	24	72

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

No.	Name of lecture topics	Volume in AH VIII semester
1	Introduction to otorhinolaryngology. Etiopathogenetic relationships between the pathology of the dentoalveolar system and diseases of the ENT organs. Acute and chronic inflammatory diseases of the nasal	2

	cavity: acute and chronic rhinitis. Classification of rhinitis, principles of diagnosis and treatment.	
2	Chronic inflammatory diseases of the paranasal sinuses (sinusitis). Rhinogenic, intraorbital and intracranial complications of sinusitis	2
3	Lymphoid ring of the pharynx. Angina and chronic tonsillitis. Association with diseases of internal organs.	2
4	Inflammatory diseases of the middle ear: acute purulent, exudative and chronic purulent otitis media	2
5	Otogenic intra-ear and intracranial complications of purulent otitis media	2
6	Non-purulent diseases of the ear: sensorineural hearing loss, otosclerosis, Meniere's disease.	2
7	Inflammatory and neoplastic diseases of the larynx. Stenosis of the larynx.	2

6.2.3. Thematic plan of practicals

No	Name of the topics of practicals	Volume in AH VIII semester
1.	Clinical anatomy, physiology and technique of instrumental examination of the ear (otoscopy).	4.25
2.	Clinical anatomy, physiology and technique of instrumental examination of the upper respiratory tract (URT): nose, pharynx and larynx. Clinical anatomy, physiology, and research methods of the trachea, bronchi and esophagus.	4.25
3.	Ear diseases	4.25
4	Diseases of the nose and paranasal sinuses	4.25
5	Diseases of the pharynx	4.25
6	Diseases of the larynx	4.25
7	Emergency pathology of ENT organs	4.25

6.2.5. Types and topics of student's individual work (SIW)

No	Types and topics of SIW	Volume in AH VIII semester
1.	Work with educational literature and other sources of information on the section under study, including in an interactive form	14
2.	academic medical history	6
3.	Preparing to Participate in Interactive Classes (Role Plays)	4
	Total	24

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Semester No.	Types of control		Name of section of academic discipline	Competence codes	Assessment formats		
						types	number of test questions	number of test task options
1.	VIII	Current monitoring	Control of mastering the topic	Clinical anatomy, physiology, methods of investigation of ENT organs	GPC-5 GPC -6	Test tasks	8	2
			Monitoring the student's individual work			Control questions	8	2
2.	VIII	Current monitoring	Control of mastering the topic	Diseases of the nose and paranasal sinuses	GPC-5 GPC -6	Test tasks	8	2
			Monitoring the student's individual work			Control questions	8	2
3.	VIII	Current monitoring	Control of mastering the topic	Diseases of the pharynx	GPC-5 GPC -6	Test tasks	8	2
			Monitoring the student's individual work			Control questions	8	2
4.	VIII	Current monitoring	Control of mastering the topic	Diseases of the larynx	GPC-5 GPC -6	Test tasks	8	2
			Monitoring the student's individual work			Control questions	8	2
5.	VIII	Current monitoring	Control of mastering the topic	Ear diseases	GPC-5 GPC -6	Test tasks	8	2
			Monitoring the student's individual work			Control questions	8	2
6.	VIII	Current monitoring	Control of mastering the topic	Emergency conditions in otorhinolaryngology	GPC-5 GPC -6	Test tasks	8	2

			Monitoring the student's individual work			Control questions	8	2
7.	VIII	Current monitoring	Control of mastering the topic					
			Monitoring the student's individual work					
8.	VIII	Mid-term assessment	Exam/ Credit				20	2

8. Educational, methodological and information support of the discipline (printed, electronic publications, Internet and other network resources).

8.1. List of basic literature:

p / no.	Name according to bibliographic requirements	Number of copies	
		at the department	in library
1.	Palchun V.T. Otorhinolaryngology + CD. 2nd ed. correct and additional / V.T. Palchun, M.M. Magomedov, L.A. Luchikhin. GEOTAR-Media, 2011	1	80
2.	Bogomilsky M.R. Children's otorhinolaryngology: a textbook for universities / M. R. Bogomilsky, V. R. Chistyakova. - 2nd ed., revised. and additional - M.: GEOTAR-Media, 2007. - 570 p.: ill.	1	4

8.2. List of additional literature:

p / no.	Name according to bibliographic requirements	Number of copies	
		at the department	in library
1.	Babiyak V. I. Neurootorhinolaryngology: hands. for doctors / V. I. Babiyak, V. R. Hoffman. - St. Petersburg: Hippocrates, 2002. - 727 p. : ill.	1	1
2.	Otorhinolaryngology: nat. manual: [training. manual for the PPO system of doctors] / ch. ed. V. T. Palchun; Assoc. honey. about-in on quality, Ros. about-in otorhinologists. - M.: GEOTAR-Media, 2008. - 954 p.: ill. + 1 CD-ROM. - (National Guidelines) (National Health Project). - Item spec.s. 949-954.	2	2
3.	Ovchinnikov Yu. M. Otorhinolaryngology / Yu. M. Ovchinnikov. - M.: Medicine, 1995.	3	eleven

4.	Soldatov I.B. Lectures on otorhinolaryngology: textbook / I.B. Soldatov. -M.: Medicine, 1986. -287s	1	1
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8.3. List of guidelines for classroom and independent work of students:

p / no.	Name according to bibliographic requirements	Number of copies	
		at the department	in library
1.	Textbook on otorhinolaryngology for students of medical faculties of higher educational institutions: Yu. A. Lebedev "Secretory otitis media and its surgical treatment" Publishing house of NGMA, Nizhny Novgorod, 2000, 19 p.	12	

8.4 Electronic educational resources used in the process of teaching the discipline:

8.4.1. Internal Electronic Library System of the University (VEBS)*

Name of the electronic resource	Brief description (content)	Access conditions	Number of users
Internal Electronic Library System (VEBS) PIMU	Proceedings of PIMU staff (textbooks, manuals, collections of tasks, methodological manuals, laboratory work, monographs, etc.)	Access by individual login and password from any computer and mobile device	Not limited

8.4.2. Electronic educational resources purchased by the university

No.	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1.	Database "Medicine. Healthcare (VO) and "Medicine. Healthcare (SPO)" as part of the database "Electronic library of a technical university (ELS "Student Consultant"	Textbooks and teaching aids for higher medical and pharmaceutical education.	Access by individual login and password from any computer and mobile device	Not limited
2.	Database "Doctor's Consultant. Electronic Medical Library»	National guidelines, clinical guidelines, textbooks, monographs, atlases, reference books, etc.	Access by individual login and password from any computer and mobile device	Not limited
3.	Database "Electronic Library System "Bukap"	Educational and scientific medical literature of Russian publishing houses, incl. translated editions. The collection of	Access by individual login and password from any computer and mobile device. From university	Not limited

		subscription publications is formed point by point.	computers - access is automatic.	
4.	Electronic periodicals in the database "SCIENTIFIC ELECTRONIC LIBRARY eLIBRARY"	Electronic medical magazines	Access - from the computers of the university.	Not limited

8.4.3 Open access resources

No.	Name of the electronic resource	Brief description (content)	Access conditions
	Listed on the SDO website		Access to them is checked before the start of classes.

9. Logistics support of discipline.

9.1. The list of premises necessary for conducting classroom classes in the discipline.

1. Lectures:

- lecture hall equipped with presentation equipment: projector, screen, computer/laptop (1)
- conference room equipped with presentation equipment: projector, screen, computer/laptop (1)

2. Practical lessons:

- training rooms for practical training (4)
- ENT dressing rooms - departments (3)

9.2. The list of equipment necessary for conducting classroom lessons in the discipline.

1. Lectures:

- a set of electronic presentations,
- presentation equipment: projector, screen, computer/laptop

2. Practical exercises:

- negatoscopes (5)
- Ro-grams of pathology of ENT organs.
- Audio and tympanograms
- Sets of tuning forks
- Frenzel vestibular glasses
- Training dummies:
 - 1 middle ear
 2. Inner ear
 3. Medial wall of the tympanic cavity
 4. Head and neck model
- Tool kits:
 1. Nasal mirrors
 2. Spatulas
 3. Ear funnels
 4. Nasopharyngeal mirrors
 5. Throat mirrors

6. Sets of tuning forks

7. Siegl funnel

8. Otoscope

- Medical and diagnostic equipment used in the educational process:

- swivel chair with electric drive in the vestibulometry room
- audiometer in the audiometry room

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10 030 LLC "Softline Trade" from 04.12.2020

