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Khanty-Mansiysk Autonomous Okrug-Ugra  
 "Surgut State University"

Approved by  
 Deputy Rector for Academic Affairs

\_\_\_\_\_ E.V. Konovalova

“ 13 ” June 2024, Record No. 5

## Otorhinolaryngology

### Syllabus

Department	Surgical diseases		
Curriculum	s310501-ЛечДело-24-4.plx Specialty 31.05.01 General Medicine		
Qualification	<b>General Practitioner</b>		
Form of education	<b>Full-time</b>		
Total (in credits)	3		
Total academic hours	108	Control: Exam, 7 <sup>th</sup> term	
including:			
Contact	64		
Self-study	8		
Control hours	36		

### Course outline in terms

Academic year (Term)	4 (4.7)		Total	
	Cur	Syl	Cur	Syl
Weeks				
Types of classes	Cur	Syl	Cur	Syl
Lectures	16	16	16	16
Practical	48	48	48	48
Contact	64	64	64	64
Self-study	8	8	8	8
Control hours	36	36	36	36
Total	108	108	108	108

The Syllabus is compiled by:

*PhD in Medical Sciences (Medicine), Associate Professor, Alibekov I.M., lecturer Dzhililova A.A.*

The Syllabus

## **Otorhinolaryngology**

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, “ 13 ” June 2024, Record No. 5

The Syllabus was approved by the department

**Surgical diseases**

Head of Department, Doctor of Medicine, Professor Darvin V.V.

<b>1. COURSE OBJECTIVES</b>	
1.1	-formation of scientific knowledge in otorhinolaryngology and mastery of special methods for diagnosing and treating diseases of the ENT organs. A graduate of a medical university, as a result of basic general medical training in otorhinolaryngology, must have developed medical thinking, the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms, as well as the ability to determine tactics for managing patients with various nosological forms.
<b>2. COURSE OVERVIEW</b>	
Course code	<b>Б1.О.04</b>
<b>2.1</b>	<b>Assumed background:</b>
2.1.1	Adaptive and age-related physiology
2.1.2	Normal physiology
2.1.3	Histology, embryology, cytology
2.1.4	Pathological anatomy
<b>2.2</b>	<b>Post-requisite courses and practice:</b>
2.2.1	Clinical pathological anatomy
2.2.2	Neurology, medical genetics, neurosurgery
2.2.3	Clinical pathophysiology
2.2.4	Ophthalmology
<b>3. 3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)</b>	

**PC-1: ability and readiness to implement a set of measures aimed at preserving and strengthening health and including the formation of a healthy lifestyle, prevention of the occurrence and (or) spread of diseases, their early diagnosis, identification of the causes and conditions of their occurrence and development, and also aimed at eliminating the harmful effects of environmental factors on human health**

**PC-1.1: Demonstrates knowledge of etiology, pathogenesis, diagnostic criteria (clinical - subjective, physical, laboratory, instrumental), identifies the patient's main pathological conditions, symptoms, disease syndromes and diagnoses nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X – XI revisions**

**PC-1.2: Conducts differential diagnostics, assesses the prognosis (short-, medium- and long-term) of the course of the disease, identifies acute complications and complications of chronic diseases**

**PC-3: is able to establish a diagnosis, determine the development of complications and take measures for the diagnosis and management of patients.**

**PC-3.1: Examines the patient (collects and analyzes the patient's complaints, his medical history, physical data based on the results of the examination, determines the necessary examination plan, evaluates the parameters of laboratory, instrumental, pathological-anatomical and other research methods for the purpose of diagnosing diseases, evaluates the prognosis (briefly -, medium-, long-term) its course and outcomes**

**PC-3.2: Formulates a preliminary and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems X - XI revisions and current clinical classifications**

**PC-3.3: Conducts early and differential diagnosis of diseases**

**PC-3.4: Carries out routing and management of patients based on current legislation (standards, procedures for providing medical care, Clinical guidelines)**

**PC-5: readiness to collect and analyze the patient's complaints, his medical history, examination results, laboratory, instrumental, pathological-anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease**

**PC-5.1: Demonstrates knowledge of the mechanisms of action, methods of application of pharmacotherapy, therapeutic nutrition, medical devices and methods of non-drug treatment, palliative and personalized medical care**

**PC-5.2: Provides treatment to various categories of patients with diseases on an outpatient basis, in hospitals and high-tech medical care centers (HTMC) with the use of drugs, medical devices and medical nutrition, taking into account the clinical picture, in accordance with current procedures, standards of medical care assistance, clinical recommendations (treatment protocols)**

**PC-5.4: Demonstrates knowledge of the side effects of drugs, methods of their administration, knowledge of the duration of their use and evaluates the effectiveness and safety of pharmacotherapy, nutritional therapy and the use of non-drug treatment, nutritional therapy for palliative care**

**PC-8: ability to determine tactics for managing patients with various nosological forms**

**PC-8.2: Maintains medical documentation, including in electronic form**

**By the end of the course students must:**

<b>3.1</b>	<b>know:</b>
3.1.1.	- aetiology, pathogenesis, diagnostic criteria (clinical - subjective, physical, laboratory, instrumental); the patient's main pathological conditions, symptoms, disease syndromes;
3.1.2	- mechanisms of action, methods of application of pharmacotherapy, medical nutrition, medical devices and methods of non-drug treatment, palliative and personalized medical care;
3.1.3	- side effects of drugs, methods of their administration, duration of their use and assessment of the effectiveness and safety of pharmacotherapy, medical nutrition and the use of non-drug treatment, medical nutrition of palliative medical care;
<b>3.2</b>	<b>be able to:</b>
3.2.1	- diagnose nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revisions
3.2.2	- assess morphofunctional, physiological states and pathological processes in the human body to solve professional problems.
3.2.3	- formulate a clinical diagnosis; develop a plan of therapeutic (surgical) actions, taking into account the course of the disease and its treatment;
3.2.4	- carry out differential diagnostics, assess the prognosis (short-, medium- and long-term) of the course of the disease, identify acute complications and complications of chronic diseases.
3.2.5	-formulate a preliminary and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revisions and current clinical classifications;

#### **4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)**

<b>Class Code</b>	<b>Topics /Class type</b>	<b>Term/Ac. year</b>	<b>Academic hours</b>	<b>Competences</b>	<b>Literature</b>	<b>Inter-active</b>	<b>Notes</b>
1.	The organization of otorhinolaryngology service in the health care system of the Russian Federation	7	6	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		

2.	Clinical anatomy of ENT organs	7	4	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
3.	Inflammatory diseases of the nose	7	6	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
4.	Inflammatory diseases of the throat	7	4	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
5.	Inflammatory diseases of the larynx	7	6	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
6.	Inflammatory diseases of the ear	7	6	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
7.	Relative deafness	7	4	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
8.	Tumours of ENT organs	7	6	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
9.	Injuries of ENT organs	7	4	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
10.	Anomalies of development of ENT organs	7	6	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
11.	Audiology	7	4	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2</b>	L1.1 L1.2 L1.3 L1.4		

				<b>PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
12.	Otoneurology	7	6	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
13.	Industrial diseases	7	4	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
14.	Phoniatrics	7	6	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		
15	Control work /Control /	7	0	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		Control work
16.	Exam	7	36	<b>PC-1 PC-1.1 PC-1.2 PC-3 PC-3.1 PC-3.2 PC-3.3 PC-3.4 PC-5 PC-5.1 PC 5.2 PC-5.4 PC-8 PC-8.2</b>	L1.1 L1.2 L1.3 L1.4 L2.1 L2.2 L2.3 L3.1 E1 L1.5 L1.6 L1.7.		Exam

## 5. ASSESSMENT TOOLS

### 5.1. Tests and tasks

Presented by a single document

### 5.2. Topics for written papers

Presented by a single document

## 6. COURSE (MODULE) RESOURCES

### 6.1. Recommended Literature

#### 6.1.1. Core

	Authors	Title	Publish., year	Quantity
L1.1	Palchun V.T., Magomedov M.M., Luchikhin L.A.	Otorhinolaryngology	Moscow: GEOTAR- Media, 2014, Electronic resource	1
L1.2	Vishnyakov V.V.	Otorhinolaryngology	Moscow: GEOTAR- Media, 2014, Electronic resource	1

L1.3	Bogomilsky M.R., Chistyakova V.R.	Pediatric otorhinolaryngology	Moscow: GEOTAR- Media, 2013, Electronic resource	1
L1.4	Palchun V.T.	Otorhinolaryngology: stamp of the Ministry of Education and Science of Russia. Recommended by the IM Sechenov Moscow Medical Academy as a textbook for students of institutions of higher professional education studying in the specialty 060101 "General Medicine" in the discipline	Moscow: GEOTAR- Media, 2013, Electronic resource	1
L1.5	Zabirov R.A., Dolgov V.A., Anikin M.I., Shchetinin V.N., Akimov A.V.,	Audiology-otorhinolaryngology: a teaching aid for teachers for a cycle of additional training in the specialty "Audiology-otorhinolaryngology"	Orenburg: Orenburg State Medical Academy, 2011, Electronic resource	1
L1.6	A. A. Chesnokov	Functional Anatomy of the Inner Ear: A Study Guide	Surgut: Publishing house of SURGU, 2004	17
L1.7	Tsokova T.N., Chesnokov A.A.	The mechanism of human perception of the high-frequency range of sound.	Electronic resource	1

#### 6.1.2. Supplementary

L2.1	Petryakov V.A.	ENT doctor's advice. Ear, Nose and Throat Disorders	Minsk: Higher School, 2011,
L2.2	A. A. Chesnokov	Functional Anatomy of the ENT Organs: [Monograph]	Surgut: Publishing house of SURGU, 2004

#### 6.1.3. Methodical development

	Authors	Title	Publish., year
L3.1	A. A. Chesnokov, A. V. Salmiyarov	Functional anatomy of the laryngeal swallowing muscles	Surgut: Publishing house of SURGU, 2011

#### 6.2. Internet resources

E1 | Free Medical Journals [https://www.gfmer.ch/Medical\\_journals/Otorhinolaryngology.htm](https://www.gfmer.ch/Medical_journals/Otorhinolaryngology.htm)

#### 6.3.1 Software

6.3.1.1 | Operational system Microsoft, applied programs pack Microsoft Office

#### 6.3.2 Information Referral systems

6.3.2.1 | <http://www.garant.ru>

6.3.2.2 | <http://www.consultant.ru>

### 7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)

7.1	The classroom for lectures is equipped with a multimedia projector, screen, laptop, stationary chalk board, typical educational furniture: desks, chairs.
7.2	The training rooms of the Department of Hospital Surgery (the surgical building of the Surgut Regional Clinical Hospital) are equipped with the following equipment:
7.3	Digital camera, projector, laptop, portable roll screen on a tripod, system unit, monitor, projector, digital video camera, digital SLR camera, black and white printer,

7.4	Macro preparations, surgical suture imaging simulators, a set of X-rays. Embossed, volumetric dummies. A set of tuning forks. ENT - instrumentation (nasal mirrors, spatulas, ear funnels, including pneumatic ones, mirrors for
7.5	tonometer, stethoscope, phonendoscope, thermometer, medical scales, stadiometer, anti-shock kit, set and packing for emergency preventive and therapeutic measures, electrocardiograph, bactericidal irradiator, electrosurgical high-frequency device, headlamp, set of instruments for diagnostics and surgery in otorhinolaryngology, binocular magnifier, balloon for ear blowing, rhinoscope, rhinolaryngofibroscope, negatoscope, clinical audiometer with built-in amplifier and the ability to connect to a computer and a printer, a set of tuning forks (C64 - C4000), a set of instruments for examining ENT organs, an otoacoustic emission registration system, a tympanometer / impedance meter, a hook for removing foreign bodies from the nose and ear, rotating chair (Barani), (complex) for checking and training the vestibular apparatus, laryngopharyngoscope, computerized voice and speech diagnostics system, tracheotomy tube, noise integrator (noise and vibration meter), apparatus for neuromuscular electrophonic stimulation
7.6	A system for recording auditory evoked potentials, a system for measuring otoacoustic emissions and auditory evoked potentials A system for measuring otoacoustic emissions and hearing, a system for diagnosing the vestibular apparatus, a headlamp, a diagnostic audiometer, an impedance audiometer