

Federal State Autonomous Educational Institution of Higher Education
«Peoples' Friendship University of Russia»

Medical Institute

Recommended MCSD

SYLLABUS
(STUDY GUIDE)

Subject

Otorhinolaryngology

Recommended for the direction of training (specialty)

31.05.01 General Medicine

Program (profile, specialization)

General Medicine

1. Aims and objectives of discipline: The *objectives* of the discipline are to help students study and learn methods of examining ENT organs, to teach diagnosis, treatment, prevention and rehabilitation of ear, nose and throat diseases.

Aims of the discipline:

- study of normal and pathological anatomy, as well as physiology of ENT organs;
- study of the etiology, mechanisms of development and outcomes of various diseases of ENT – organs;
- analysis of clinical manifestations of the most common diseases of ENT – organs;
- study of the main methods of diagnosis of ENT – pathology;
- introduction with the principles of pathogenesis therapy and prevention of ENT diseases.

2. Place of discipline in the structure of OP HE:

Discipline Otorhinolaryngology refers to the basic part of Block 1 of the curriculum.

Table №1 given preceding and following discipline aimed at forming competence discipline in accordance with the matrix competences OP HE.

Table 1. Preceding and following the discipline aimed at creating competencies

№ п/п	Code and title of competence	Preceding disciplines	Following disciplines
General Professional Competences			
	GPC-1 (GPC-1.1, 1.2) GPC-7 (GPC-7.1, 7.2)	Anatomy, Pathological Anatomy, Normal Physiology, Pathophysiology, Pharmacology	Facultative Therapy, Facultative Surgery Oncology, Radiotherapy, Traumatology, Pediatrics, Maxillo- Facial Surgery
Professional Competences (type of professional activity medical activity)			
	PC-2 (PC-2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7) PC-3 (PC-3.1, 3.2, 3.3)	Anatomy, Pathological Anatomy, Normal Physiology, Pathophysiology, Pharmacology	Facultative Therapy, Facultative Surgery Oncology, Radiotherapy, Traumatology, Pediatrics, Maxillo- Facial Surgery

3. Requirements to results of development of discipline: The process of studying the discipline is aimed at the formation of the following competencies:

Table 2. The competences

Competences	Competence name	Indicators of achievement of competencies
GPC-1	Being able to implement moral and legal norms, ethical and deontological principals in professional activity	GPC-1.1. Being able to abide by the ethical standards and legal regulations in professional activity. GPC-1.2. Being able to present professional information in the process of intercultural interaction observing the principles of ethics and deontology.
GPC-7	Being able to prescribe treatment and monitor its efficacy and safety	GPC-7.1. Mastering skills in the methods of general clinical examination, interpretation of laboratory results, instrumental diagnostic methods. GPC-7.2. Being aware of the algorithm for making a preliminary diagnosis with the subsequent referral of the patient to the relevant medical specialist.
PC-2	Being able to examine a patient in order to determine a diagnosis	PC-2.1. Mastering the skills to collect complaints, anamnesis of the patient's life and disease, as well as conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation).

		<p>PC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient.</p> <p>PC-2.3. Being able to refer a patient to a laboratory examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards.</p> <p>PC-2.4. Being able to refer a patient to an instrumental examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.5. Being able to refer a patient to consult with a medical specialist if there is a medical indication in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.6. Being able to refer a patient to be provided with specialized medical care in an inpatient setting or in a day hospital in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.7. Being able to carry out differential diagnosis with other diseases/conditions, including the urgent ones, as well as to make a diagnosis taking into account the current international statistical classification of diseases and problems related to health (ICD).</p>
PC-3	Being able to prescribe treatment and monitor its efficacy and safety	<p>PC-3.1. Being able to develop a treatment plan for a disease or condition taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-3.2. Being able to prescribe medicinal drugs, medical devices and medical nutrition taking into account the diagnosis, age and clinical picture of the disease and in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-3.3. Being able to prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p>

As a result of study of discipline a student must:

Know:

- anatomy and physiology of ENT - organs;
- diseases of the external nose, acute and chronic diseases of the nasal cavity, inflammatory diseases of the paranasal sinuses, orbital and intracranial complications of diseases of the nose and paranasal sinuses, injuries of the nose and paranasal sinuses, nosebleeds;
- angina, complications of angina, chronic tonsillitis, adenoids, adenoiditis, acute and chronic pharyngitis;
- diseases of the external ear, acute otitis media, mastoiditis, chronic diseases of the middle ear, diseases of the inner ear, otogenic intracranial complications;
- diseases of the larynx, tracheotomy, tumors of the upper respiratory tract;
- specific diseases of the upper respiratory tract, tracheobronchoscopy, esophagoscopy.

Be handy at:

- research methods of ENT organs: anterior and posterior rhinoscopy, pharyngoscopy, indirect laryngoscopy, otoscopy;
- conduct an external examination of the ENT - organs, palpation and percussion of the projection of the anterior walls of the paranasal sinuses and places of exit of the trigeminal nerve branches, external examination and palpation of the ear and parotid region, determination of active and passive mobility of the larynx;
- interpret the results of the most common methods of instrumental diagnostics used to diagnose pathology of the ENT organs;
- to conduct sensing of the nasal cavity, anemization of the mucous membrane of the inferior nasal conchas, the study of the respiratory function of the nasal cavity, the vestibular analyzer;
- stop nasal bleeding using the most commonly used techniques (anterior and posterior nasal tamponade on models), determining the patency of the auditory tubes with an intact eardrum and the presence of perforation;
- substantiate the principles of pathogenetic therapy of the most common diseases of the ENT organs.

Manage:

- research methods of ENT - organs and methods of general clinical examination;
- correct management of medical records (writing a patient's medical history);
- the skill of interpreting the results of laboratory, instrumental diagnostic methods;
- an algorithm for making a preliminary and detailed clinical diagnosis.

4. Volume of discipline and types of study

General credit value of the discipline is 4 credit units.

Type of study load	Total hours	Semesters	
		8	
Class hours (total)	96	96	
Include:	-	-	
<i>Lectures</i>			
<i>Practical training (PT)</i>	96	96	
<i>Seminars (S)</i>			
<i>Laboratory research (LR)</i>			
Independent work (total)	48	48	
Total labor input	hours	144	144
	Credit Unit	4	4

5. Content of the discipline**5.1. The content of the discipline sections**

№ п/п	Name of the section of discipline	Contents of the section
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1.	Research methods of ENT – organs.	Research methods of ENT – organs: anterior rhinoscopy, posterior rhinoscopy, pharyngoscope, otoscopy.
2.	Pathology of the nose and paranasal sinuses.	Acute and chronic diseases of the nasal cavity. Injuries of the nose and paranasal sinuses. Nosebleeds. Foreign body of the nasal cavity and paranasal sinuses. Inflammatory diseases of the paranasal sinuses.
3.	Pathology of the pharynx.	Angina, complications of angina. Chronic tonsillitis. Foreign body of the pharynx. Adenoids.
4.	Pathology of the ear.	Diseases of the external ear. Acute middle ear infections. Mastoiditis. Chronic diseases of the middle ear. Diseases of the inner ear.
5.	Pathology of the larynx.	Acute and chronic diseases of the larynx. Tracheotomy.
6.	Tumors of the ear and upper respiratory tract.	Tumors of the ear and upper respiratory tract.
7.	Specific diseases of upper respiratory tract.	Specific diseases of upper respiratory tract.

5.2. Sections of disciplines and types of classes

№ п/п	Name of the section of discipline	<i>L</i>	<i>PC</i>	<i>LR</i>	<i>S</i>	Ssgw	Total hours
1.	Research methods of ENT – organs: anterior rhinoscopy, posterior rhinoscopy, pharyngoscope, otoscopy.		8			4	12
2.	Injuries of the nose and paranasal sinuses. Nosebleeds. Foreign body of the nasal cavity and paranasal sinuses.		8			4	12
3.	Acute and chronic diseases of the nasal cavity.		8			4	12
4.	Inflammatory diseases of the paranasal sinuses.		8			4	12
5.	Angina, complications of angina.		8			4	12
6.	Chronic tonsillitis. Adenoids. Adenoiditis. Foreign body in the pharynx.		8			4	12
7.	Diseases of the external ear. Acute middle ear infections. Foreign body of the ear.		8			4	12
8.	Chronic diseases of the middle ear. Mastoiditis.		8			4	12
9.	Diseases of the inner ear (labyrinth, sensorineural hearing loss, Meniere's disease).		8			4	12
10.	Acute and chronic diseases of the larynx. Tracheotomy.		8			4	12
11.	Tumors of the ear and upper respiratory tract.		8			4	12
12.	Specific diseases of ENT organs.		8			4	12

6. Laboratory training (if available)

№ п/п			№ discipline section	Subject of a practical training (seminars)	Workload (hours)
1.					

7. Practical training (seminars) (if available)

№ п/п	№ discipline section	Themes of practical training (seminars)	Workload (hours)
1.	Research methods of ENT – organs: anterior rhinoscopy, posterior rhinoscopy, pharyngoscope, otoscopy.	Research methods of ENT – organs: anterior rhinoscopy, posterior rhinoscopy, pharyngoscope, otoscopy.	6
2.	Injuries of the nose and paranasal sinuses. Nosebleeds. Foreign body of the nasal cavity and paranasal sinuses.	Diseases of external nose. Injuries of the nose and paranasal sinuses. Nosebleeds. Foreign body of the nasal cavity and paranasal sinuses.	6
3.	Acute and chronic diseases of the nasal cavity.	Acute and chronic diseases of the nasal cavity.	6
4.	Inflammatory diseases of the paranasal sinuses.	Acute diseases of the paranasal sinuses. Chronic diseases of the paranasal sinuses.	6
5.	Angina, complications of angina.	Angina, complications of angina.	6
6.	Chronic tonsillitis. Adenoids. Adenoiditis. Foreign body in the pharynx.	Chronic tonsillitis. Trauma and foreign body of the pharynx. Adenoids.	6
7.	Diseases of the external ear. Acute middle ear infections. Foreign body of the ear.	Diseases of the external ear. Acute middle ear infections. Mastoiditis. Foreign body of the ear.	6
8.	Chronic diseases of the middle ear. Mastoiditis.	Chronic diseases of the middle ear. Intracranial complications. Diseases of the inner ear.	6
9.	Diseases of the inner ear (labyrinth, sensorineural hearing loss, Meniere's disease).		6
10.	Acute and chronic diseases of the larynx. Tracheotomy.	Acute and chronic diseases of the larynx. Tracheotomy.	6
11.	Tumors of the ear and upper respiratory tract.	Tumors of the ear and upper respiratory tract.	6
12.	Specific diseases of ENT organs.	Specific diseases of ENT organs.	6

8. Material and technical support of the discipline:

Computer, multimedia projector, microscope, demonstration tables "Medushpoboobie", multimedia disks with a set of illustrative materials, a set of roentgenograms, video films on the methods of examining ENT organs, anatomy of the nose and paranasal sinuses, diseases of the paranasal sinuses, sets tools.

9. Information support of the discipline:

a) Databases, reference and search systems:

- Electronic Library System (ELS) of the RUDN University and third-party ELS, to which university students have access on the basis of concluded contracts.
- Electronic library system of the PFUR.
- Training portal of PFUR <http://web-local.rudn.ru>.

- Universal library ONLINE <http://biblioclub.ru>.
- Library of electronic journals BENTHAMOPEN
<http://www.benthamscience.com/open/a-z.htm>.
- Electronic Journal Library Elsevier <http://www.elsevier.com/about/open-access/open-archives>.
- Medical online library MedLib <http://med-lib.ru/>.
- Scientific electronic library <http://elibrary.ru/>.
- U.S. National Library of Medicine National Institutes of Health:
<http://www.ncbi.nlm.nih.gov/pubmed/>.
- The site of the Russian society of otorhinolaryngologists: <http://lornii.ru>.
- The site of the Russian Society of Rhinologists: <http://rhinology>.

10. Educational and methodical support of the discipline:

a) Main literature:

1. V.T. Palchun, M.M. Magomedov, L.A. Luchikhin. Otorhinolaryngology, educational literature for med.vuzov, 3 nd ed. M., "Geotar-Media", 2014 - 584 p.
2. V.T. Palchun, M.M. Magomedov, L.A. Luchikhin. Otorhinolaryngology, educational literature for med.vuzov, 3 d ed. - M., "Geotar-Media", 2016 – 584 p.

b) Additional literature

1. Palchun VT, Kryukov AV Otorhinolaryngology, Moscow, Medicine, 2001.
2. Manual on otorhinolaryngology. Ed. Soldatova IB, M., 1994.
3. Ovchinnikov Yu.M. Reference book on otorhinolaryngology. M. Medicine, 1999.
4. Bogomilsky MR, Chistyakova VR. Children's otorhinolaryngology. M. Medicine, 2001.
5. Antoniv VF, Dainiak LB, Daihez AI Manual on otorhinolaryngology. M.: Medicine, 1997.
6. Atlas of operative otorhinolaryngology. Ed. Pogosova V.S. M.: Medicine, 1983.
7. V.T. Palchun, M.M. Magomedov, L.A. Luchikhin. Otorhinolaryngology, educational literature for med.vuzov, 2 nd ed. - M., "Geotar-Media", 2011 - 656 p.
8. Antoniv VF, Aksenov VM, Popadyuk VI, Perekrest AI, Vasyliv T.Ya., Matela II, Antoniv T.V. Methods for studying the sound analyzer. Teaching-methodical manual. - Moscow: Publishing House of the Peoples' Friendship University of Russia, 2006. - 55 p.

11. Guidelines for students on the development of the discipline (module)

Practical classes in classrooms are used to analyze relevant topics using multimedia technology (computer, projector). For each classroom, lecture and lectures are designed presentations, prepared in the program Microsoft PowerPoint. The main goal of practical exercises is to study the causes of the onset, the foundations of pathogenesis, the clinical course, and the features of treatment of common pathology of the larynx.

Independent work of the student

Independent work of students during non-audit hours includes independent processing of information and preparation of reports with presentations, as well as writing abstracts.

Teaching aids in electronic form for a number of studied topics are placed on the page of databases, information and reference systems and search systems on the Internet.

As one of the forms of independent work, the students are provided with the preparation of abstracts for the sections of the course.

An extracurricular independent work of a student includes:

- study of material on the textbook, manuals on paper and electronic media;
- preparation of abstracts on selected topics;
- preparation for the execution of test works and test tasks.

Current control.

Control of knowledge and success of mastering the curriculum in the conditions of full-time education is conducted in the form of an oral survey.

Boundary control.

The passage of the entire section ends with a boundary control of knowledge in the form of testing, supplemented at the discretion of the teacher by an oral interview with the student. In the process of boundary control, the student must show his knowledge of the subject, skills and abilities. Also, visits to practical classes are monitored.

Final control.

The final control of knowledge is conducted in the form of an examination (in the 8th semester). The exam is taken in the form of an oral interview with the student. The student should demonstrate knowledge about the etiology, pathogenesis and pathomorphological changes occurring in the ENT organs in the development of a certain pathology, on the classifications of certain nosologies, on the clinical manifestations and pathognomonic symptoms of the ENT pathology, on the stage of development of pathological processes and diseases, their complications and outcomes, principles etiotropic, pathogenetic and symptomatic treatment of ENT diseases - organs. Also, the student's exam requires the ability to analyze the main pathological conditions, explain the mechanisms of development and manifestations of diseases, as well as the mechanisms of action of various principles of treatment and prevention.

12. Fund of estimated means for the interim assessment of students in the discipline (module)

Materials for assessing the level of mastering the educational material of the discipline "Otorhinolaryngology" (evaluation materials), including a list of competences indicating the stages of their formation, a description of indicators and criteria for evaluating competencies at various stages of their formation, a description of the assessment scales, standard control tasks or other materials, necessary for the assessment of knowledge, abilities, skills and (or) experience of activities that characterize the stages of the formation of competences in the process of mastering the educational program, methodological materials that determine the procedures for assessing knowledge, skills and (or) experience of activities that characterize the stages of formation of competences, are developed in full and are available for students on the discipline page at TUIS RUDN.

The program is compiled in accordance with the requirements of the FSES HE.

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