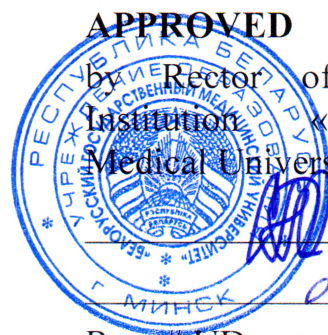
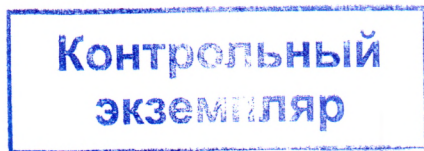


**MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS**  
Educational Institution  
«BELARUSIAN STATE MEDICAL UNIVERSITY»



**APPROVED**

by Rector of the Educational Institution «Belarusian State Medical University»

S.P.Rubnikovich

01.12.2025

Reg. # UD-0911-03-34/25 edu.

**OTORHINOLARYNGOLOGY**

**Curriculum of the educational institution  
in the academic discipline for the specialty**

**1-79 01 07 «Dentistry»**

Curriculum is based on the educational program «Otorhinolaryngology», approved 01.12.2025, registration # УД-0911-03-34/2526/уч.; on the educational plan in the specialty 1-79 01 07 «Dentistry», approved 16.04.2024, registration # 7-07-0911-03/2526/mf.

### **COMPILERS:**

P.A.Zatoloka, Professor of the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University», DSc., Associate Professor;

A.R.Sakovich, Professor of the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University», DSc., Associate Professor;

E.V.Kochyna, Senior Lecturer of the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University»;

E.S.Bolshakova, Senior Lecturer of the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University»

### **RECOMMENDED FOR APPROVAL:**

by the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University» (protocol # 2 of 25.09.2025);

by the Scientific and Methodological Council of the Educational Institution «Belarusian State Medical University» (protocol # 3 of 19.11.2025)

## EXPLANATORY NOTE

«Otorhinolaryngology» – the academic discipline of the General Clinical Surgical Module, that provides systematized scientific knowledge on the etiology, pathogenesis, clinical manifestations, diagnostic methods, differential diagnosis, treatment and medical prevention of diseases of the ear, nose, paranasal sinuses, pharynx and larynx.

The aim of the academic discipline «Otorhinolaryngology» is to develop basic professional competencies for solving professional problems in the diagnosis, treatment and medical prevention of diseases of the ear, nose, paranasal sinuses, pharynx and larynx.

The objectives of the academic discipline «Otorhinolaryngology» are to develop students' scientific knowledge of the etiology, pathogenesis, diagnostic methods, treatment and medical prevention of diseases of the ear, nose, paranasal sinuses, pharynx and larynx, as well as the skills and abilities necessary for:

- examining patients with diseases of the ear, nose, paranasal sinuses, pharynx and larynx;

- recognizing the clinical manifestations of the main acute and chronic diseases of the otolaryngological organs;

- using clinical, laboratory and instrumental diagnostic methods used to treat diseases of the ear, nose, paranasal sinuses, pharynx and larynx;

- interpreting the results of clinical and laboratory tests;

- diagnosing otolaryngological diseases;

- prescribing general and local treatment for diseases of the ear, nose, paranasal sinuses, pharynx and larynx;

- prophylactic medical treatment of otolaryngological diseases;

- providing medical care to patients with otolaryngological diseases in life-threatening situations.

### **Relations to other educational disciplines**

The knowledge, skills and abilities acquired during the study of the academic discipline «Otorhinolaryngology» are necessary for successful mastering of the following academic disciplines: «Maxillofacial Surgery and Outpatient Maxillofacial Surgery», «Oral and Maxillofacial Pediatric Surgery».

Studying the academic discipline «Otorhinolaryngology» should possess the following basic professional competency: organize and provide medical assistance in emergency situations.

**As a result of studying the academic discipline «Otorhinolaryngology» the student should**

#### **know:**

- the etiology and pathogenesis of the most common diseases and injuries of the hearing, voice and speech organs;

- classification, clinical manifestations, diagnostic methods and differential diagnosis of the most common otolaryngological diseases;

- methods of medical prevention and treatment of the most common diseases of the ear, nose, paranasal sinuses, pharynx and larynx;

rules of medical ethics and deontology;

**be able to:**

recognize the main clinical manifestations of diseases of the ear, nose, paranasal sinuses, pharynx and larynx;

plan patient examinations for otolaryngological diseases;

provide medical care, including emergency care, to patients with diseases of the ear, nose, paranasal sinuses, pharynx and larynx;

compile medical documentation;

**master:**

clinical, instrumental and laboratory examination methods used in otolaryngology.

**Total number** of hours for the study of the discipline is 90 academic hours, of which 40 classroom hours and 50 hours of student independent work. Classroom hours according to the types of studies: lectures – 12 hours (including 3 hours of supervised student independent work (SSIW)), practical classes – 28 hours.

Intermediate assessment is carried out according to the syllabus of the specialty in the form of a credit (10th semester).

Form of higher education – full-time.

### ALLOCATION OF ACADEMIC TIME ACCORDING TO SEMESTERS OF STUDY

| Code, name of specialty   | Semester | Total number of academic hours | Number of classroom hours |                |      |           | Out-of-class self-studies | Form of intermediate assessment |
|---------------------------|----------|--------------------------------|---------------------------|----------------|------|-----------|---------------------------|---------------------------------|
|                           |          |                                | Number of classroom hours | including      |      |           |                           |                                 |
|                           |          |                                |                           | class lectures | SSIW | practical |                           |                                 |
| 1-79 01 07<br>«Dentistry» | 10       | 90                             | 40                        | 9              | 3    | 28        | 50                        | Credit                          |

## THEMATIC PLAN

| Section (topic) name   | Number of class hours    |           |
|--|--------------------------|-----------|
|  | lectures<br>(incl. SSIW) | practical |
| <b>1. Diseases of the nose and paranasal sinuses</b>   | <b>3</b>                 | <b>7</b>  |
| 1.1. Nasal cavity and paranasal sinus examination methods. Diseases of the external nose and nasal cavity. nosebleeds. Medical ethics and deontology in otolaryngology | 1,5                      | 4         |
| 1.2. Paranasal sinus diseases. Orbital and intracranial complications of inflammatory diseases of the nose and paranasal sinuses                                       | 1,5                      | 3         |
| <b>2. Pharynx diseases. Pharynx examination methods. Pharyngeal neoplasms</b>  | <b>1,5</b>               | <b>7</b>  |
| <b>3. Ear diseases</b>   | <b>4,5</b>               | <b>7</b>  |
| 3.1. Hearing and vestibular system examination methods. Diseases of the outer ear. acute and chronic middle ear diseases   | 3                        | 4         |
| 3.2. Inner ear diseases. Otogenic intracranial complications   | 1,5                      | 3         |
| <b>4. Larynx diseases. Emergency medical care in otolaryngology</b>  | <b>3</b>                 | <b>7</b>  |
| <b>Total hours</b>   | <b>12</b>                | <b>28</b> |

### CONTENT OF THE EDUCATIONAL DISCIPLINE

#### 1. Diseases of the nose and paranasal sinuses

##### 1.1. Nasal cavity and paranasal sinus examination methods. Diseases of the external nose and nasal cavity. nosebleeds. Medical ethics and deontology in otolaryngology

Collection of complaints, anamnesis of life and anamnesis of the disease in patients with diseases of the nose and paranasal sinuses. Anterior and posterior rhinoscopy. Functions of the nasal cavity and paranasal sinuses, examination methods. Anomalies of nasal development. Congenital deformity of the external nose, treatment. Atresia of the nasal passages and choanae, treatment. Furuncle of the nose: clinical picture, diagnosis, treatment, prevention. Eczema of the external nose: etiology, clinical manifestations, diagnosis, treatment. Acute rhinitis: etiology, clinical symptoms of the disease, diagnosis, treatment. Hematoma and abscess of the nasal septum: symptoms of the disease, diagnosis, treatment. Deviated nasal septum: etiology, symptoms, indications for surgical treatment of the nasal septum. Chronic rhinitis: classification, clinical picture, diagnosis, treatment. Ozena: epidemiology, clinical symptoms, differential diagnosis, treatment.

Nosebleeds. Methods for stopping nosebleeds.

Basic concepts and principles of medical ethics and deontology in the treatment of patients with otolaryngological diseases.

## **1.2. Paranasal sinus diseases. Orbital and intracranial complications of inflammatory diseases of the nose and paranasal sinuses**

The importance of radiographic research in diagnosing paranasal sinus diseases. Odontogenic maxillary sinusitis: etiology, clinical presentation, differential diagnosis and treatment. Acute ethmoiditis: etiology, clinical symptoms, diagnosis and treatment. Acute frontal sinusitis: etiology, clinical manifestations, diagnosis and treatment. Acute sphenoiditis: etiology, clinical presentation, diagnosis and treatment. Chronic maxillary sinusitis: etiology, clinical presentation, diagnosis and treatment. Chronic ethmoiditis: etiology, clinical manifestations, diagnosis and treatment. Chronic frontal sinusitis: etiology, clinical symptoms, diagnosis and treatment. Chronic sphenoiditis: etiology, clinical presentation, diagnosis and treatment. Indications for surgical treatment of paranasal sinus diseases.

Orbital and intracranial complications of diseases of the nose and paranasal sinuses. Eyelid edema, orbital periostitis: etiology, clinical presentation, diagnosis and treatment. Subperiosteal abscess: etiology, clinical manifestations, diagnosis and treatment. Orbital fat edema and orbital phlegmon: etiology, clinical presentation, diagnosis and treatment. Arachnoiditis, meningitis, brain abscess and cavernous sinus thrombophlebitis: etiology, symptoms, diagnosis and treatment. Malignant and benign neoplasms of the nose and paranasal sinuses: diagnostic and treatment methods.

## **2. Pharynx diseases. Pharynx examination methods. Pharyngeal neoplasms**

Collection of complaints, medical history and disease history in patients with pharyngeal diseases. Pharyngeal examination methods. Pharyngoscopy, posterior rhinoscopy.

Hypertrophy of the pharyngeal and palatine tonsils in childhood: diagnosis and treatment methods. Classification of acute and chronic tonsillitis (I.B. Soldatov). Differential diagnosis of acute tonsillitis. Chronic nonspecific tonsillitis: classification, diagnosis, treatment methods and complications. Clinical follow-up of patients with chronic tonsillitis. Acute pharyngitis: etiology, clinical presentation, diagnosis, treatment and prevention. Chronic pharyngitis: classification, etiology, clinical presentation, diagnosis, treatment and prevention.

Benign neoplasms of the pharynx (lymphangioma, angiofibroma, papillomatosis): clinical presentation, diagnosis and treatment. Malignant neoplasms of the pharynx (cancer, lymphosarcoma): methods of early diagnosis, principles of treatment.

## **3. Ear diseases**

### **3.1. Hearing and vestibular system examination methods. Diseases of the outer ear: acute and chronic middle ear diseases**

Collection of complaints, medical history and disease history in patients with ear diseases. Subjective and objective hearing tests. Determining hearing acuity using whispered speech, tuning forks and analysis of hearing passports and audiograms. Vestibular function testing using rotation in a Barany chair. Radiographic examinations for middle ear diseases.

Otitis externa (eczema, furuncle of the ear canal): etiology, symptoms, diagnosis and treatment. Foreign bodies in the external auditory canal and methods of removal. Acute catarrhal and purulent otitis media: clinical presentation, diagnosis and treatment. Acute mastoiditis: routes of infection, clinical presentation and treatment. Chronic suppurative otitis media.

### **3.2. Diseases of the inner ear. Otogenic intracranial complications**

Sensorineural hearing loss: etiology, symptoms and treatment. Otogenic intracranial complications of acute and chronic otitis media. Thrombophlebitis of the sigmoid sinus: etiology, clinical symptoms, diagnosis and treatment. Otogenic sepsis: etiology, clinical presentation, diagnosis and treatment. Meningitis (serous and purulent): etiology, pathogenesis, clinical presentation and treatment. Brain and cerebellar abscess: etiology, clinical presentation, diagnosis and treatment.

### **4. Diseases of the larynx. Emergency medical care in otolaryngology**

Collection of complaints, medical history and disease history in patients with laryngeal diseases. Laryngeal examination methods. Modern radiographic diagnostic techniques for laryngeal diseases.

Acute laryngeal diseases. Acute laryngeal stenosis and its treatment. Tracheotomy, conicotomy: techniques. Acute laryngotracheitis in adults and children. Chronic laryngeal stenosis. Surgical treatment of laryngeal stenosis. Chronic hyperplastic laryngitis. Laryngeal neoplasms. Laryngeal cancer prevention.

Emergency medical care for injuries and foreign bodies of the upper respiratory tract, bronchi, burns and foreign bodies in the esophagus. Methods for removing foreign bodies from the anterior nasal cavity and oropharynx.

## EDUCATIONAL DISCIPLINE «OTORHINOLARYNGOLOGY» CURRICULAR CHART

| Section, topic #     | Section (topic) name   | Number of class hours |           | Supervised student independent work | Literature | Practical skills  | Forms of control                                      |  |
|----------------------|--|-----------------------|-----------|-------------------------------------|------------|---|---|--|
|                      |  | lectures              | practical |                                     |            |   | of practical skill                                    | of current/intermediate assessment         |
| <b>10th semester</b> |  |                       |           |                                     |            |   |   |  |
|                      | <b>Lectures</b>  | <b>9</b>              | <b>-</b>  | <b>3</b>                            |            |   |   |  |
| 1.1                  | Nasal cavity and paranasal sinus examination techniques. Diseases of the external nose and nasal cavity                              | 1,5                   | -         | -                                   | 1, 10      |   |   |  |
| 1.2                  | Diseases of the paranasal sinuses. Orbital and intracranial complications of inflammatory diseases of the nose and paranasal sinuses | 1,5                   | -         | -                                   | 1, 10      |   |   |  |
| 2.                   | Pharynx diseases. Pharynx examination techniques. Pharynx tumors   | 1,5                   | -         | -                                   | 1, 10      |   |   |  |
| 3.1                  | Hearing examination techniques. Diseases of the outer ear  | -                     | -         | 1,5                                 | 1, 10      |   |   | Electronic testing                         |
| 3.1                  | Acute and chronic diseases of the middle ear   | 1,5                   | -         | -                                   | 1, 10      |   |   |  |
| 3.2                  | Diseases of the inner ear. Otogenic intracranial complications   | 1,5                   | -         | -                                   | 1, 10      |   |   |  |
| 4.                   | Acute larynx diseases  | 1,5                   | -         | -                                   | 1, 10      |   |   |  |
| 4.                   | Chronic larynx diseases  | -                     | -         | 1,5                                 | 1, 10      |   |   | Electronic testing                         |
|                      | <b>Practical classes</b>   | <b>-</b>              | <b>28</b> | <b>-</b>                            |            |   |   |  |
| 1.                   | Nasal cavity and paranasal sinus examination methods. Diseases of the external nose and nasal cavity.                                | -                     | 7         | -                                   | 1-4, 6, 7  | 1. Anterior rhinoscopy.<br>2. Palpation of the paranasal sinuses. | Performing a skill at the patient's bedside problems. | Thesis defense, survey, electronic testing |

|                    |  |          |           |          |            |   |   |  |
|--------------------|--|----------|-----------|----------|------------|---|---|--|
|                    | nosebleeds. Medical ethics and deontology in otolaryngology. Paranasal sinus diseases. Orbital and intracranial complications of inflammatory diseases of the nose and paranasal sinuses |          |           |          |            | 3. Stopping nosebleeds (anterior nasal packing).<br>4. Interpretation of radiographs, magnetic resonance imaging (MRI) and computed tomography (CT) scans of the nose and paranasal sinuses                                       | Performing a practical skill on simulation equipment*.<br>Solving situational problems  |  |
| 2.                 | Pharynx diseases. Pharynx examination methods. Pharyngeal neoplasms. First aid for pharyngeal injuries   | -        | 7         | -        | 1, 6, 9    | 1. Mesopharyngoscopy.<br>2. Taking biological material from the nose, oropharynx and ear  | Performing a skill at the patient's bedside   | Thesis defense, solving case studies, electronic testing         |
| 3.                 | Hearing and vestibular system examination methods. Diseases of the outer ear. acute and chronic middle ear diseases Inner ear diseases. Otogenic intracranial complications              | -        | 7         | -        | 1, 5, 6, 8 | 1. Otoscopy.<br>2. Irrigation of the external auditory canal.<br><br>3. Determining hearing acuity using whispered speech, tuning forks and analyzing hearing records and audiograms.<br>3. Palpation of the mammillary processes | Performing a practical skill on simulation equipment.<br>Solving situational problems.<br><br>Performing a skill at the patient's bedside | Thesis defense, solving case studies, survey, electronic testing |
| 4.                 | Larynx diseases. Emergency medical care in otolaryngology  | -        | 7         | -        | 1,6        | 1. Tracheostomy care.<br>2. Conicotomy  | Performing a skill at the patient's bedside.<br>Performing a practical skill on simulation equipment                                      | Thesis defense, control work*, electronic testing.<br><br>Credit |
| <b>Total hours</b> |  | <b>9</b> | <b>28</b> | <b>3</b> |            |   |   |  |

\*This is a mandatory form of current certification.

**INFORMATION AND INSTRUCTIONAL UNIT****LITERATURE****Basic:**

1. Corbridge, R. Oxford handbook of ENT and head and neck surgery / Rogan Corbridge, Nicholas Steventon. – 3 ed. – Oxford : Oxford University Press, 2020. – 488 p.

**Additional:**

2. Zatoloka, P. A. Acute bacterial sinusitis : teaching aid / P. A. Zatoloka, K. N. Ustinovich. – Minsk : BSMU, 2023. – 24 p.

3. European Position Paper on Rhinosinusitis and Nasal Polyps 2020 / Rhinology Supplement 29, 2020. – 464 p.

4. Clinical Practice Guideline: Nosebleed (Epistaxis) / Otolaryngology – Head and Neck Surgery, 2020, Vol. 162(1S) S1 – S38.

5. Clinical Practice Guideline: Ménière's Disease / Otolaryngology – Head and Neck Surgery, 2020, Vol. 162(2S) S1 – S55.

6. Ear, Nose and Throat : The Official Handbook for Medical Students and Junior Doctors / A. Yao [et al.] – 2018. – 288 p.

7. European Position Paper on Rhinosinusitis and Nasal Polyps 2020 / W. J. Fokkens [et al.]. – Rhinology, 2020. – 464 p.

8. Zatoloka, P. A. Otitis media : teaching aid / P. A. Zatoloka, E. P. Merkulova, K. N. Ustinovich. – Minsk : BSMU, 2023. – 28 p.

9. Clinical Practice Guideline: Tonsillectomy in Children (Update) / R. B. Mitchell [et al] – Otolaryngology – Head and Neck Surgery. – 2019. – 42 p.

**Electronic courseware for the educational discipline «Otorhinolaryngology»:**

10. <https://etest.bsmu.by/course/index.php?categoryid=6&browse=courses&erpage=20&page=1>.

**METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMANCE OF STUDENT INDEPENDENT WORK IN THE ACADEMIC DISCIPLINE**

The time allocated for independent work can be used by students for:

prepare for lectures and practical classes;

prepare for a credit;

solve situational problems;

take notes from academic literature.

**METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMANCE OF SUPERVISED STUDENT INDEPENDENT WORK IN THE ACADEMIC DISCIPLINE**

**APPROXIMATE LIST OF TASKS FOR SUPERVISED STUDENT INDEPENDENT WORK:**

solving situational problems;

noting educational literature.

**FORMS OF CONTROL OF SUPERVISED STUDENT INDEPENDENT WORK:**

electronic testing.

### LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms of current certification are used to diagnose competencies:  
 thesis defense;  
 control work;  
 survey;  
 solving case studies;  
 electronic testing.

### LIST OF AVAILABLE TEACHING METHODS

Traditional method;  
 active (interactive) methods:  
 Problem-Based Learning (PBL);  
 Team-Based Learning (TBL);  
 Case-Based Learning (CBL);  
 simulation-based learning.

### LIST OF PRACTICAL SKILLS

| Name of practical skills  | Form of practical skills control                     |
|---|--|
| 1. Otoscopy   | Performing a practical skill on simulation equipment |
| 2. Anterior rhinoscopy  | Performing a skill at the patient's bedside          |
| 3. Mesopharyngoscopy  | Performing a skill at the patient's bedside          |
| 4. Determining hearing acuity using whispered speech, tuning forks and analysis of hearing records and audiograms       | Solving situational problems                         |
| 5. Palpation of the paranasal sinuses   | Performing a skill at the patient's bedside          |
| 6. Palpation of the mammillary processes  | Performing a skill at the patient's bedside          |
| 7. Taking biological material from the nose, oropharynx and ear   | Performing a skill at the patient's bedside          |
| 8. Stopping nosebleeds (anterior nasal packing)   | Performing a practical skill on simulation equipment |
| 9. Irrigation of the external auditory canal  | Performing a practical skill on simulation equipment |
| 10. Interpretation of radiographs, magnetic resonance imaging and computed tomography of the nose and paranasal sinuses | Solving situational problems                         |
| 11. Tracheostomy care   | Performing a skill at the patient's bedside          |
| 12. Conicotomy  | Performing a practical skill on simulation equipment |

### LIST OF SIMULATION EQUIPMENT USED

1. Medical otoscopy simulator, phantom for otoscopy and ear care.
2. Cricothyrotomy simulator.
3. Nosebleed control simulator.

**PROTOCOL OF THE CURRICULUM APPROVAL  
BY OTHER DEPARTMENTS**

| Title of the discipline requiring approval                    | Department  | Amendments to the curriculum in the academic discipline | Decision of the department, which designed the curriculum |
|---|---|---|---|
| 1. Maxillofacial Surgery and Outpatient Maxillofacial Surgery | Maxillofacial Surgery and Facial Plastic Surgery with a course for advanced training and retraining | No proposals  | Protocol # 2 of 25.09.2025                                |
| 2. Oral and Maxillofacial Pediatric Surgery                   | Maxillofacial Surgery and Facial Plastic Surgery with a course for advanced training and retraining | No proposals  | Protocol # 2 of 25.09.2025                                |

## COMPILERS:

Professor of the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University», DSc., Associate Professor



P.A.Zatuloka

Professor of the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University», DSc., Associate Professor



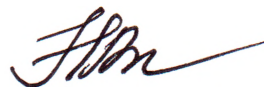
A.R.Sakovich

Senior Lecturer of the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University»



E.V.Kochyna

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E.S.Bolshakova

Head of the Department of Otorhinolaryngology with advanced training and retraining course of the Educational Institution «Belarusian State Medical University», DSc., Professor



L.G.Petrova

Curriculum content, composition and the accompanying documents comply with the established requirements.

Head of the Office of Educational Activities of the Educational Institution «Belarusian State Medical University»

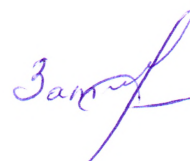
18.11.2025



I.L.Kotovich

Methodologist of the Educational and Methodological Department of the Office of Educational Activities of the Educational Institution «Belarusian State Medical University»

18.11.2025



S.V.Zaturanova