

METHODOLOGICAL GUIDELINES FOR STUDENTS

Unit 1

1.Theme of the class, its goals and tasks

Topic : Anatomy and physiology of investigation of the nose, paranasal sinuses, pharynx, larynx

Purpose of the class: to know the anatomy and physiology of nose sinuses, pharynx, larynx.

Tasks :

1.Study the anatomy and physiology of nose, nose sinuses, pharynx and larynx.

2. Basic definitions to be mastered by students during studying of the topic (list of notions).

1. paranasal sinuses
2. nasopharynx
3. oropharynx
4. hypopharynx
5. larynx

3. Questions for the class studies

1. Anatomy of the external nose
2. Anatomy of the nasal cavity
3. Anatomy of the paranasal sinuses
4. Anatomy of the pharynx
5. Anatomy of the larynx
6. Physiology of the nose and paranasal sinuses
7. Physiology of the pharynx
8. Physiology of the larynx

4. Questions for self- assessment

1. Anatomy of the nose
2. Physiology of the nose
3. Anatomy of the paranasal sinuses
4. Anatomy of the pharynx
5. Physiology of the pharynx
6. Anatomy of the larynx
7. Physiology of the larynx

5.Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ В. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>

2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
1. Anatomy and physiology of the upper respiratory tract and ear. 2. Age features (child and elderly) of paranasal sinuses 3. Age features (children and elderly) of pharynx 4. Age features (children and elderly) of larynx	Making a conspectus indicating the main definitions and anatomical structures in the note books

Unit 2

1.Theme of the class, its goals and tasks

Topic : Methods of examination of ENT organs.

Purpose of the class: to know methods of examination of nose sinuses, pharynx, larynx.

Tasks :

1. Know the diagnostic algorithm for the pathology of the nose, nose sinuses, pharynx, larynx.
2. Develop the skills for conducting clinical research methods of nose, nose sinuses, pharynx, larynx.

2. Basic definitions to be mastered by students during studying of the topic (list of notions).

1. anterior rhinoscopy
2. posterior rhinoscopy
3. pharyngoscopy
- 4.indirect laryngoscopy

3. Questions for the class studies

1. Clinical methods of examination of patients with diseases of the nose, paranasal sinuses, pharynx and larynx (external inspection and palpation of the external nose, paranasal sinuses and

regional lymph nodes, anterior and posterior rhinoscopy, pharyngoscopy, indirect laryngoscopy, otoscopy)

2. Functional and practical methods of study of ENT organs.

4. Questions for self- assessment

1. Search methods of nose and paranasal sinuses
2. Research methods of pharynx
3. Research methods of larynx

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ В. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>
2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
1. To make list of differences in normal picture of rhino-, pharyngo-, laryngoscopy in different ages	Making a conspectus in the note books

Unit 3

1. Theme of the class, its goals and tasks

Topic: Diseases of the nose and paranasal sinuses.

The purpose of classes: form a professional competence in diagnosis and treatment of the most common diseases of the nose and paranasal sinuses.

Tasks:

1. To acquire the skills to implement a diagnostic algorithm for the pathology of the nose and paranasal sinuses
2. Generate skills conservative treatment revealed pathology of the nose and paranasal sinuses.

3. To develop a scheme of interaction with the doctor otorhinolaryngologist in severe or complicated course of disease.

4. Form the following skills:

- The ability to identify the clinical signs of disease
- The ability to analyze data paraclinical methods of investigation
- The ability to appoint a conservative complex therapy;
- Sampling on bacteriological examination of the nasal cavity;
- Instillation of the drops, lubrication of the nasal mucosa;
- The removal of a foreign body from the nasal cavity.

2. Basic definitions to be mustered by students during studying of the topic (list of notions).

1. Diseases of the external nose
2. Diseases of the nasal cavity
3. Sinusitis
4. rhinogenous intraorbital complications
5. Rhinogenous intracranial complications

3. Questions for the class studies

1. The deformation of the external nose, principles of treatment.
2. Deviated septum: causes, clinical features, treatment, possible complications
4. Furuncle external nose and nasal vestibule.
5. Acute rhinitis: causes, clinical features, treatment, possible complications.
6. Chronic rhinitis: classification, etiology, clinical features, diagnosis, treatment.
7. Sinusitis: classification, etiology, clinical features, diagnosis, treatment, possible complications.
8. Features sinusitov children.
9. Rhinogenous intraorbital complication
10. Rhinogenous intracranial complications

4. Questions for self- assessment

1. The deformation of the external nose, principles of treatment
2. Deviated septum
4. Furuncle nose: clinic, complications, treatment
5. Acute rhinitis
6. Chronic Rhinitis
7. Acute sinusitis
8. Chronic sinusitis
9. Rhinogenous orbital and intracranial complications

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ B. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>
2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
1. Specific lesions of the nose and paranasal sinuses in tuberculosis, syphilis, scleroma; 2. Pathology of the nose and paranasal sinuses with the common infectious diseases (SARS, scarlet fever, measles, mononucleosis, diphtheria, rubella, brucellosis, tularemia, glanders, listeriosis, borreliosis, fellinoz, leptospirosis, psittacosis, cytomegaly, pseudotuberculosis, iersineoz); 3. Pathology of the nose and paranasal sinuses in the therapeutic and endocrine diseases (diabetes mellitus, hypothyroidism, hyperthyroidism, hypertension, atherosclerosis, gastrointestinal disease, chronic lung disease); 4. Pathology of the nasal cavity and paranasal sinuses in pregnancy (especially diagnostic and treatment strategy).	Making a report on one of the proposed topics

Unit 4

1..Theme of the class, its goals and tasks

Topic: Diseases of the pharynx

Purpose of the activity: form professional competence in diagnosis and treatment of the most common diseases of the pharynx.

Tasks:

1. Acquire the skills to implement a diagnostic algorithm for the pathology of the pharynx
2. Develop the skills of conservative treatment revealed pathology of the pharynx.

3. To develop a scheme of interaction with the doctor otorhinolaryngologist in severe or complicated course of disease.

4. Form the following skills:

- Ability to identify the clinical signs of disease pharynx.
- Ability to analyze data at the paraclinical methods Trials
- Ability to analyze the data paraclinical methods of investigation in the pathology of the pharynx.
- Ability to appoint conservative complex therapy.
- sampling on bacteriological research with the pharyngeal mucosa
- Remove a foreign body from the oropharynx.

2. Basic definitions to be mustered by students during studying of the topic (list of notions).

1. The adenoids;
2. Hypertrophy of the tonsils;
3. Acute tonsillitis;
4. Chronic tonsillitis;
5. Bilateral tonsillectomy;
6. Paratonsillitis, peritonsillar abscess

3. Questions for the class studies

1. Acute pharyngitis: etiology, clinical features, diagnosis, treatment.
2. Chronic pharyngitis: etiology, clinical features, diagnosis, treatment.
3. Acute tonsillitis: etiology, clinical features, diagnosis, treatment, possible complications.
4. Paratonsillitis and peritonsillar abscess: clinical manifestations, diagnosis, treatment.
5. Chronic tonsillitis: classification, clinic, diagnostics, treatment.
6. The adenoids.

4. Questions for self- assessment

1. The adenoids.
2. Acute pharyngitis
3. Acute tonsillitis;
4. Chronic compensated tonsillitis;
5. Chronic decompensated tonsillitis;
6. Local complications of tonsillitis;
8. Metatonsillar disease.

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ В. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>

2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
1. Specific lesions of the pharynx tuberculosis, syphilis, scleroma; 2. Pathology of the pharynx in the common infectious diseases (SARS, scarlet fever, measles, mononucleosis, diphtheria, rubella, brucellosis, tularemia, glanders, listeriosis, borreliosis, fellinoz, leptospirosis, psittacosis, cytomegaly, pseudotuberculosis, iersineoz); 3. Pathology of the pharynx in the therapeutic and endocrine diseases (diabetes mellitus, hypothyroidism, hyperthyroidism, hypertension, atherosclerosis, gastrointestinal disease, chronic lung disease).	Making a report on one of the proposed topics

Unit 5

1..Theme of the class, its goals and tasks

Topic: Diseases of the larynx.

The purpose of classes: form a professional competence in diagnosis and treatment of the most common diseases of the larynx.

Tasks:

1. To acquire the skills to implement a diagnostic algorithm for the pathology of the larynx
2. Generate skills conservative treatment revealed pathology of the larynx

3. To develop a scheme of interaction with the doctor otorhinolaryngologist in severe or complicated course of disease.

4. Form the following skills:

- The ability to identify the clinical signs of the larynx
- The ability to analyze data paraclinical methods of investigation
- The ability to appoint a conservative complex therapy;
- perform konikotomiyu, tracheostomy when fast and acute laryngeal stenosis;

2. Basic definitions to be mustered by students during studying of the topic (list of notions).

1. Laryngitis
2. Acute constrictive laryngitis
3. Stenosis of the larynx
4. Chronic laryngitis
5. Conicotomy
6. Tracheotomy

. Questions for the class studies

1. Classification of stenosis of the larynx.
2. Acute laryngitis: etiology, classification, clinic, diagnostics, treatment. Possible complications.
3. Acute laryngotracheitis in children: clinical features, complications, treatment.
4. Chronic laryngitis: clinic, diagnostics, treatment.
5. Tracheostomy

4. Questions for self-assessment

1. Acute laryngitis;
2. Acute laryngotracheitis in children
3. Classification of stenosis of the larynx;
4. Indications for tracheotomy;
6. Tracheotomy surgery;

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ B. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>
2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>

2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
Specific larynx tuberculosis, syphilis, scleroma; - Pathology of the larynx in the common infectious diseases (SARS, scarlet fever, measles, mononucleosis, diphtheria, rubella, brucellosis, tularemia, glanders, listeriosis, borreliosis, fellinoz, leptospirosis, psittacosis, cytomegaly, pseudotuberculosis, iersineoz); - Pathology of the larynx in the therapeutic and endocrine diseases (diabetes mellitus, hypothyroidism, hyperthyroidism, hypertension, atherosclerosis, gastrointestinal disease, chronic lung disease).	Making a report on one of the proposed topics

Unit 6

1..Theme of the class, its goals and tasks

Topic: Anatomy, physiology, methods of investigation of the ear, the auditory and vestibular analyzers.

Purpose of the activity: to know the anatomy, physiology and techniques and Research of the ear, the auditory and vestibular analyzers.

Tasks:

1. To study the anatomy and physiology of the ear, the auditory and vestibular analyzers;
2. Trials to know the methods of the ear, the auditory and the vestibular analyzer.
3. Build skills for Trials ear, auditory and vestibular analyzer.

2. Basic definitions to be mustered by students during studying of the topic (list of notions).

1. middle ear
2. inner ear
3. external ear
4. auditory and vestibular analyzer
5. otoscopy
6. tonal audiometry, tympanometry

3. Questions for the class studies

1. Anatomy of the ear
2. Anatomy of the auditory analyzer
3. Anatomy of the vestibular analyzer
4. Physiology of the auditory analyzer
5. Physiology of the vestibular analyzer
6. Clinical methods of examination of patients with diseases of the ear
7. Functional and paraclinical methods Trials hearing and vestibular Functions

4. Questions for self- assessment

1. Anatomy of the external ear
2. Anatomy of the middle ear
3. Anatomy of the inner ear.
4. Hearing analyzer: structure, theories of hearing and methods Trials
5. Vestibular analyzer: structure, methods Trials.

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ В. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>
2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
1. Age features (children and elderly) of the ear, the auditory and the vestibular apparatus 2. Trials particular auditory function in infants and young children	Making a conspectus indicating the main definitions and anatomical structures in the note books

Unit 7

1. Theme of the class, its goals and tasks

Topic: Diseases of the external ear.

The purpose of classes: form a professional competence in diagnosis and treatment of the most common diseases of the external ear.

Tasks:

1. Know the diagnostic algorithm in the pathology of the external ear
2. Skill form of conservative treatment of diseases of the external ear;
3. To develop a scheme of interaction with the doctor otorhinolaryngologist in severe or complicated course of disease;
4. Form the following practical skills:
 - The ability to identify the clinical signs of disease of the external ear
 - The ability to analyze data paraclinical methods of investigation
 - The ability to appoint a conservative complex therapy;
 - Perform a toilet of external auditory canal;
 - Perform instillation of drug into the ear;
 - Perform turundas introduction into the ear canal;
 - Carry out the imposition of a hot compress on the ear;
 - Carry out the removal of a foreign body and sulfur plug from the external ear canal;

2. Basic definitions to be mustered by students during studying of the topic (list of notions).

1. Sulfur plug
2. Foreign body in the ear canal
3. Acute local external otitis
4. Acute diffuse external otitis
5. Chronic external otitis
6. Otomycosis of the external ear

3. Questions for the class studies

1. Sulfur plugs: clinical features, diagnosis, treatment, prevention.
2. Acute local external otitis: etiology, clinical features, diagnosis, treatment.
3. Acute diffuse external otitis: etiology, clinical features, diagnosis, treatment, complications
4. Chronic external otitis: clinic, diagnostics, treatment.
5. Otomycosis of the external ear: clinic, diagnostics, treatment.

4. Questions for self- assessment

1. Ear wax and external ear hygiene
2. Differential diagnosis of infectious external ear diseases

3. A typical course of acute diffuse external otitis

4. Complications of external ear diseases

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ В. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>
2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
1. Differentiation diagnosis of external ear diseases	Making a table in a notebook

Unit 8

1. Theme of the class, its goals and tasks

Topic: Diseases of the middle ear.

The purpose of classes: form a professional competence in diagnosis and treatment of the most common diseases of the middle ear.

Tasks:

1. Know the diagnostic algorithm in the pathology of the middle ear
2. Skill form of conservative treatment of diseases of the middle ear;
3. To develop a scheme of interaction with the doctor otorhinolaryngologist in severe or complicated course of disease;
4. Form the following practical skills:
 - The ability to identify the clinical signs of disease of the middle ear
 - The ability to analyze data paraclinical methods of investigation

- The ability to appoint a conservative complex therapy;
- Perform turundas introduction into the ear canal;

2. Basic definitions to be mustered by students during studying of the topic (list of notions).

1. Acute otitis media
2. Acute mastoiditis
3. Chronic supportive otitis media
4. Otitis media with effusion
5. Paracentesis

3. Questions for the class studies

1. Acute otitis media: clinical features, diagnosis, treatment, prevention, complications.
2. Acute mastoiditis: etiology, clinical features, diagnosis, treatment.
3. Chronic supportive otitis media: etiology, clinical features, diagnosis, treatment.
4. Otitis media with effusion: clinic, diagnostics, treatment.

4. Questions for self- assessment

1. The role of the Eustachian tube in middle ear diseases
2. A typical course of acute otitis media
3. Complications of acute otitis media

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ B. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>
2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
--	---

1. Pathology of the ear with the common infectious diseases (SARS, scarlet fever, measles, mononucleosis, diphtheria, rubella, brucellosis, tularemia, glanders, listeriosis, borreliosis, leptospirosis, psittacosis, cytomegalia, pseudotuberculosis, yersiniosis); 2. Specific defeat ear tuberculosis, syphilis	Making a report on one of the proposed topics
--	---

Unit 9

1. Theme of the class, its goals and tasks

Topic: Urgent ENT diseases

The purpose of classes: form a professional competence in diagnosis and treatment of the most common urgent ENT diseases

Tasks:

1. Know the diagnostic algorithm of the most common urgent ENT diseases
2. To create the following practical skills:
 - The ability to identify the clinical signs of urgent ENT diseases
 - The ability to analyze data paraclinical methods of investigation
 - The ability to appoint a complex treatment;

2. Basic definitions to be mastered by students during studying of the topic (list of notions).

1. Nose bleeding
2. Foreign bodies of ENT organs
3. Injuries of ENT organs

3. Questions for the class studies

1. Foreign bodies in the nose: clinical features, diagnosis, first aid
2. Injuries of the nose and paranasal sinuses: classification, clinic, first aid, principles of treatment
3. Nose bleeding: causes, types, methods of stopping
4. Foreign bodies in the pharynx and esophagus: clinic, methods of diagnostic, principles of treatment, possible complications
5. Foreign bodies of the larynx: clinical features, complications, first aid
6. Injuries of the external ear: types, complications, treatment
7. Foreign bodies of the external ear: clinical features, diagnosis, first aid, treatment.

4. Questions for self- assessment

1. Differential diagnosis of ENT organs injuries
2. Differential diagnosis of ENT foreign bodies

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ B. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>
2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ E. M. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
1. Associated injuries of the upper respiratory tract; 2. Associated injuries of the nose and paranasal sinuses and dental system;	Making a conspectus indicating the main definitions, signs and symptoms of diseases, methods of treatment with examples.

Unit 10

1. Theme of the class, its goals and tasks

Topic: Tumors of ENT organs

The purpose of classes: form a professional competence in diagnosis and treatment of the most common tumors of ENT organs

Tasks:

1. Know the diagnostic algorithm of the most common tumors of ENT organs
2. To create the following practical skills:
 - The ability to identify the clinical signs of tumors of ENT organs
 - The ability to analyze data paraclinical methods of investigation
 - The ability to appoint a complex treatment;

2. Basic definitions to be mustered by students during studying of the topic (list of notions).

1. Benign tumors of ENT organs
2. Malignant tumors of ENT organs

3. Questions for the class studies

1. Cysts of the paranasal sinuses
2. Polyps of the nasal cavity and paranasal sinuses
3. Mucocele of the paranasal sinuses
4. Papillomas of the nose and nasal cavity
5. Hemangiomas of the nasal cavity
6. Malignant neoplasms of the nasal cavity

4. Questions for self- assessment

1. Differential diagnosis of malignant tumors of ENT organs
2. Differential diagnosis of benign tumors of ENT organs

5. Compulsory and supplementary literature on the theme

1. Mohan B. Diseases of Ear, Nose and Throat [Электронный ресурс]/ В. Mohan, 2022. - URL: <https://www.jaypeedigital.com/book/9789386150233>
2. Palchun V.T. Otorhinolaryngology [Электронный ресурс] : textbook/ V. T. Palchun, A. I. Kryukov, M. M. Magomedov. -Москва: ГЭОТАР-Медиа, 2020. - 560 с.- URL: <https://www.studentlibrary.ru/en/book/ISBN9785970454732.html>
3. Toskala E.M. ENT Essentials [Электронный ресурс]/ Е. М. Toskala, D. W. Kennedy, 2020. - URL: <https://www.jaypeedigital.com/book/9789351529477>

Supplementary literature

1. Антипина О.В. Situational tasks in otorhinolaryngology [Электронный ресурс] : collection of tasks/ О. В. Антипина, М. В. Субботина. -Иркутск: ИГМУ, 2019. -101 с.- URL: <https://www.books-up.ru/ru/book/situational-tasks-in-otorhinolaryngology-12244684>
2. Шпотин В.П. Учебное пособие по дисциплине «Оториноларингология» для англоязычных студентов = Учебное пособие по дисциплине «Оториноларингология» для русскоязычных студентов [Электронный ресурс]/ В. П. Шпотин, А. А. Григорьева. -Астрахань: Астраханский ГМУ, 2021. -104 с.- URL: <https://www.books-up.ru/ru/book/training-manual-for-the-discipline-otorhinolaryngology-for-english-speaking-students-14503488>

6. List of questions and exercises for the unsupervised work

Sections and themes for the individual studies	Types and contents of the unsupervised work
1. Surgeries of ENT organs tumors	Making a report with explaining