INTERNATIONAL HIGHER SCHOOL OF MEDICINE

Department of Special Clinical Disciplines

SYLLABUS
Otorhinolaryngology

2026-2027 academic year
For students of medical faculty 4th Course VIII th Semester
1 - 9 groups of the Central & Issyk-Kul Campus
4_credits (120 h, including auditorial -72 h, independent work - 48 h)

Lectures: 1-9 groups Central Campus 1-3 groups Issyk-Kul Campus	**Lecturers:** Orozalieva Alfisa Moldokmatovna Isakova Asel Kasylbekovna
Practice: 1-4 groups Central Campus	**Teachers:** **Maktybaeva Damira Anarbekovna** 0555 379 379 email: niyazalieva@yandex.ru
5-7 groups Central Campus	**Orozalieva Alfisa Moldokmatovna** 0551 66 66 87 email: alfizaorozalieva@mail.ru
8-9 groups Central Campus	**Karagulova Meerim Maratbekovna** 0556089980 email: Maratbekovam@mai 1.ru
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Venue:
Lectures: online using zoom
Practice: «Vedanta plus», IB Manasa str., classroom № 305, 308, 311.
Vedanta Issyk-Kul 216, 218
National Hospital, Department of Otorhinolaryngology -1 floor, room

The Syllabus is considered
at the meeting of the department of SCD
Protocol №___1__dated____28.08.2026

Head of the department__ _____D.A. Maktybaeva

Course Objective: The purpose of mastering the academic discipline Otorhinolaryngology is that students must acquire basic knowledge about the pathology of the ENT organs, as well as develop knowledge and skills on the general principles of diagnosis and treatment of emergency conditions in otorhinolaryngology, principles and methods of work in otorhinolaryngological departments at various levels of healthcare.

Knowledge:
- The importance of timely detection and elimination of diseases of the ear, nose and throat in the prevention of general morbidity and in improving the health of the population (especially for diseases such as chronic purulent otitis media and chronic tonsillitis), with the principles and methods of dispensary work.
- Features of the study of ENT organs - endoscopy and functional testing of hearing, vestibular function, smell and taste; show the significance of the results of this examination in the general clinical examination of the patient, in identifying the pathology of the central nervous system.
- Etiology, pathogenesis, clinical picture, diagnosis, prevention and treatment of ENT diseases that are common, have social significance, require emergency care, cause concomitant diseases in the body or complications.
- Endoscopic and functional methods for examining the nose, pharynx, larynx and ear.

Skill:
Provide emergency care for bleeding, injuries, foreign bodies and other acute diseases of the ENT organs.

1. Ear:
- Technique for performing otoscopy (evaluation of its results)
- Use a forehead reflector
- Evaluation of radiographs according to Schüller
- Technique for preparing ear cotton holders
- Evaluation of the results of a pure tone threshold audiogram
- Technique for performing hearing tests using the experiments of Federici, Jelly, Bing, Schwabach, Rine (evaluation of their results).
- Technique for performing air conductivity studies using tuning forks (evaluation of the results obtained).
- Study of whispered and spoken speech
- Determination of patency of the auditory tube (4 degrees)
- Injection of turundum with medications into the ear.
- Technique for rinsing the external auditory canal to remove wax plugs and foreign bodies.
- Performing an ear toilet, extracting discharge from the ear to determine the microflora and its sensitivity to antibiotics.
- Applying a warm compress to the ear.
- Insufflation and instillation of medicinal substances into the external auditory canal.
- Technique for performing a rotational test and evaluating its results
- Technique for performing a caloric test and evaluating its results
- Technique for performing an otolith test.

2. Nose and paranasal sinuses:
- Technique for palpation of the external nose, facial walls of the paranasal sinuses and exit points of the branches of the trigeminal nerve
- Evaluation of computed tomography of the paranasal sinuses
- Technique for performing anterior rhinoscopy (position 1, position 2, evaluation of its results
- Technique for performing posterior rhinoscopy (evaluation of its results)
- Evaluation of a radiograph of the skull in the sagittal projection
- Preparation of nasal cotton holders
- Technique for stopping nosebleeds from the anterior nasal cavity
- Technique for stopping nosebleeds from the posterior parts of the nasal cavity and nasopharynx
- Making and applying a sling bandage
- Technique for probing the nasal mucosa
- Technique for studying nasal function
- Technique for extracting secretions from the nasal cavity and pharynx to determine the microflora and its sensitivity to antibiotics
- Insufflation and instillation of medicinal substances into the nasal cavity

Pharynx:
- Technique for performing oropharyngoscopy
- Technique for preparing and using pharyngeal cotton holders

- Technique for washing the lacunae of the palatine tonsils
- External examination of the anterior and lateral surface of the neck, palpation of regional lymph nodes
- Warming compress on the neck (technique for its implementation)
- Technique for examining the nasopharynx
- Assessment of the condition of the palatine tonsil
- Insufflation and instillation of medicinal substances into the pharynx.

Larynx and trachea:

- Technique for performing indirect laryngoscopy (evaluation of its results)
- Evaluation of tomogram of the larynx

3. Patient supervision 4. Reception of outpatient patients 5. Registration of outpatient card

Attitude:

• Skills in analysis, evaluation of effectiveness and optimization of pathogenetically based methods of treatment, rehabilitation and prevention of the most common genetic diseases in various age groups of patients.
• Skills in substantiating and formulating a diagnosis based on the results of clinical, laboratory and functional examinations of adults and children
• The ability to substantiate one's own position on scientific and medical research issues based on the principles of evidence-based medicine

Pre-requisites.

• Macro- and microanatomy
• Normal physiology
• Pathology (pathological anatomy and pathological physiology)
• Microbiology, virology and immunology
• Fundamentals of Radiology
• Propaedeutics of internal diseases
• Basic pharmacology
• Topographic anatomy and operative surgery

Post-requisites

• Public health and health
• Outpatient therapy
• Family medicine
• Oncology
• Infectious diseases
• Childhood diseases

THEMATIC PLAN OF LECTURES

№	Theme of lecture	Hours
1.	Introduction to otorhinolaryngology. Auditory and vestibular analyzer	2
2.	Acute and chronic inflammatory diseases of the middle ear	2
3.	Non-purulent diseases of the middle ear	2
4.	Acute and chronic diseases of the nose and paranasal sinuses.	2
5.	Rhinogenic and otogenic intracranial complications.	2
6.	Acute and chronic tonsillitis	2
7.	Acute and chronic laryngitis. Laryngeal stenosis. Intubation, tracheostomy. Emergency otorhinolaryngology	2
8.	Tumors of the ENT organs	2

THEMATIC PLAN OF PRACTICAL CLASSES

№	Theme of practical class	Hours
1.	Introduction to otorhinolaryngology. Clinical anatomy of the auditory and vestibular analyzer	2

2.	Clinical physiology of the auditory and vestibular analyzer. Ear examination methods	2
3.	Diseases of the external ear. Diseases of the auditory tube. Otalgia.	2
4.	Acute inflammatory diseases of the middle ear. Antrotomy, Mastoidectomy	2
5.	Chronic purulent otitis media. Tympanoplasty.	2
6.	Intracranial complications of otogenic origin. Determination of a set of therapeutic measures and practical application in patients	2
7.	**Unit No. 1**	**2**
8.	Otosclerosis. Meniere's disease. Sensorineural hearing loss. Describe the clinical features, research and principles of treatment of dizziness and tinnitus.	2
9.	Clinical anatomy and physiology of the nose, paranasal sinuses. Examination methods. Diseases of the external nose, nasal vestibule, nasal septum	2
10.	Rhinitis: acute, chronic, vasomotor and other forms. Allergic rhinitis.	2
11.	Nasal polyps. Granulomatous and other nasal diseases.	2
12.	Epistaxis. Describe the clinical manifestation, examination methods and principles of treatment of facial and neck injuries. Methods of combating these conditions, medical treatment, anterior and posterior nasal packing.	2
13.	Describe the clinical features, research and principles of treatment of tumors of the upper jaw.	2
14.	**Unit No. 2**	**2**
15.	Acute and chronic sinusitis. Complications of sinusitis.	2
16.	Clinical anatomy and physiology of the pharynx, lymphadenoid ring. Examination methods. Adenoids and other inflammatory diseases of the nasopharynx.	2
17.	Acute and chronic diseases of the pharynx. Make a document and submit a correct anamnesis, demonstrate and describe the clinical features, choose the correct methods of examinations and describe the principles of treatment depending on the type of dysphagia.	2
18.	Describe the clinical features, examination methods and treatment principles of nasopharyngeal angiofibroma. Describe the clinical features, examination methods, and treatment principles of nasopharyngeal tumors.	2
19.	Acute and chronic tonsillitis Complications of the head and neck area (abscesses: paratonsillar, retropharyngeal, etc.). Describe the etiopathogenesis of oral cancer, symptoms, and signs of pharyngeal cancer. List the necessary tests and discuss treatment principles. Describe the clinical presentation, examination methods, and treatment principles of salivary gland diseases.	2
20.	Clinical anatomy of the larynx, trachea, esophagus. Methods of examinations.	2
21.	**Unit No. 3**	**2**
22.	Acute and chronic diseases of the larynx. Acute laryngotracheitis in children. Identify, document, and present an correct history, demonstrate and describe clinical signs, select appropriate tests, and describe treatment principles for hoarseness. Describe the clinical signs, tests, and treatment principles for stridor.	2
23.	Paresis and paralysis of the larynx. Etiology, clinical picture, diagnosis, treatment. Laryngeal stenosis. Intubation and tracheostomy.	2
24.	Describe the clinical features, research and treatment principles of malignant neoplasms of the larynx and laryngopharynx.	2
25.	Chemical burns of the esophagus. Foreign bodies in the respiratory	2

	and gastrointestinal tracts, injuries. Medication is the treatment for these conditions.	
26.	Describe the clinical features, research methods and principles of treatment of ENT manifestations of HIV infection.	2
27.	Clinic: outpatient appointments. Supervision of ENT patients	2
28.	**Unit No. 4**	**2**

THEMATIC PLAN OF INDEPENDENT WORK OF STUDENTS

№	Theme of independent work	Hours	**Date**
1.	Congenital anomalies of the ear, nose, paranasal sinuses, and soft and hard palate. Write an essay. Draw a drawing of the normal auditory and vestibular systems.	6	Per timetable
2.	Tinnitus. Acoustic neuroma. Complete a literature review of 3-4 sources and write an abstract.	6	Per timetable
3.	Hearing rehabilitation. Hearing aids. Cochlear implantation. Give a report or presentation.	6	Per timetable
4.	Topography of the cavernous sinus. Thrombosis. Etiology, diagnosis, treatment and outcome. Writing an essay.	6	Per timetable
5.	Snoring with apnea. Write a summary, presentation	6	Per timetable
6.	Endoscopic rhinosinus surgery. Write a summary and develop a multimedia presentation.	6	Per timetable
7.	Neck diseases: congenital cysts, enlarged lymph nodes, lymphoma. Clinic, diagnosis, treatment. Complications of inflammatory diseases of the nose and pharynx. Connection with the maxillofacial region. Cellulitis of the neck. Make a report	6	Per timetable
8.	Clinical anatomy and physiology of the thyroid gland. Benign and malignant diseases of the thyroid gland. Write an essay	6	Per timetable

Recommended reading for the discipline:

Basic:

№	Authors	Title	Year of publication	Publishing house	Availability in the library in ISM (quantity)
1	PL Dhingra.	Diseases of ear, nose and throat	2010	5th edition	63
2	AH Sakshi.	ENT	2016	7 th edition	can be bought in India, or by following the link https://www.amazon.com/Self-Assessment-Review-Sakshi-Arora/dp/9385999532

3	Andrew Blitzer, Jerome Schwartz, Phillip Song, Megha Young.	Oxford American Handbook of Otolaryngology	2008	Copyright © 2008 by Oxford University Press, Inc.	https://www.amazon.com/American-Handbook-Otolaryngology-Handbooks-Medicine/dp/0195343379

Additional:

№	Authors	Title	Year of publication	Publishing house	Availability in the library in ISM (quantity)
1	Vinidh Paleri, John Hill.	An Atlas of Investigation and Management. ENT INFECTIONS	2010	Clinical Publishing an imprint of Atlas Medical Publishing Ltd Oxford Centre for Innovation	Can be downloaded from this link: https://rlmc.edu.pk/themes/images/gallery/library/books/ENT/An%20Atlas%20of%20Investigation%20and%20Management%20of%20ENT.pdf
2	Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz	Otolaryngology A Color Handbook	2017	488 Pages 728 Color Illustrations Published August 17, 2016 by CRC Press	https://www.amazon.ae/Otolaryngology-Handbook-Laura-Swibel-Rosenthal/dp/1482253763
3	ENT Clinical Recommendations & Guidelines		2023		https://www.aafp.org/family-physician/patient-care/clinical-recommendations/recommendations-by-topic/ent-clinical-recommendation-guidelines.html

Grading policy and procedures for all types of work

For the period of studying the discipline, the student gains points for the relevant parameters (per unit):
current score - 40 points
independent work - 20 points
control score (final assessment of knowledge per unit) - 40 points
Maximum score - 100 (40+20+40)

Grading system for student's achievements

Grading criteria per discipline				
Maximum score	Intervals			
	«unsatisfactory»	«satisfactory»	«good»	«excellent»
Current control – 40	0-23	24-30	31-35	36-40
Interval description	Does not know a significant part of the program material, makes significant mistakes, does not cope with practical tasks.	Knowledge of only the basic material, significant difficulties in performing practical tasks.	A high level of knowledge, skills, without significant inaccuracies.	A high, advanced level of knowledge, skills, without inaccuracies.
Independent work – 20	0-11	12-15	16-17	18-20
Interval description	incomplete (less than 50% of the complete task), significant errors were made in the presentation	incomplete (at least 50% of the full), but the task is stated; 1 mistake was made in the presentation; knows and understands the main provisions of this topic, but allows inaccuracies in	Incomplete (at least 70% of complete), but correctly stated task; 1-2 insignificant mistakes were made in the presentation, which he corrects after the teacher's remark; gives correct formulations, precise definitions	A student receives the maximum number of points for each type if: expounds the relevant topic in detail, with sufficient completeness; gives correct formulations, precise definitions,
		the formulation of concepts; does not present the task logically and consistently enough;	of the concept of terms; can substantiate his/her answer, give the necessary examples	concepts of terms
Control work (module) - 40	0-23	24-30	31-35	36-40

Boundary control in Otorhinolaryngology is carried out in the form of testing on the materials of the unit on the electronic platform www.ismexams.com or blank testing. (one option – 20 questions). Each correct answer to the test question is worth 1 point. Then the student is asked 1 oral question, for which a maximum of 10 points is counted, then 1 situational task of 5 points and an X-ray or audiogram of 5 points. A total of 40 points. The module is evaluated on a 40-point scale (from 0 to 40 points) and is counted as a control score for the unit. The total score for the study of a unit is calculated as the sum of points for students' independent work (from 0 to 20), the current score for answers in class (from 0 to 40), the control score for foreign control (from 0 to 40) and can be from 0 to 100.

Conduct Policy: (lateness, absence, behavior in the auditorium, late submission of work).

- Punctuality and completion of tasks.
- Mandatory attendance of classes.
- Attending class in a clean medical uniform.

- Eliminating conversations on a cell phone in the classroom.
- Active participation in the learning process.
- Doing homework on time.
- Academic detention at the time specified by the teacher.

For violations of the Conduct Policy, the total points for discipline might be reduced to 1-10 points.

Academic Ethics Policy.

- Be tolerant, respect the opinions of others.
- Formulate objections in the correct form.
- Constructively support feedback in all classes.
- Plagiarism and other forms of dishonest work are unacceptable. Plagiarism includes the following: the absence of references when using printed and electronic materials, quotes, thoughts and works of other authors or students.
- Prompting and cheating during tests, exams, classes is unacceptable as well as passing an exam for another student, unauthorized copying of materials.

For violations of the Academic Ethics Policy, the total points for the discipline may be reduced to 1-10 points.

Guidelines for the lessons of the discipline

Key questions covered in lesson 1. Clinical anatomy of the auditory and vestibular analyzer

1. Anatomy, topography of the ear
2. Innervation, blood supply to the ear
3. Anatomy and physiology of organ of Corti, Otolith apparatus, Crista ampularis.

Recommended reading for the class:

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition

Key questions covered in lesson 2. Clinical physiology of the auditory and vestibular analyzer. Ear examination methods.

1. Diagram of the auditory analyzer
2. Scheme of the vestibular analyzer
3. Adequate stimuli of the crista ampularis and otolith apparatus
4. Three types of reactions that occur with irritation of the vestibular apparatus: vestibulosomatic, vestibulo-vegetative and vestibulosensory.
5. Otoscopy.
6. Tuning Fork Tests.Recommended reading for the class:
    1. PL Dhingra. Diseases of ear, nose and throat. 7th edition

Key questions covered in lesson 3. Diseases of the external ear. Diseases of the auditory tube. Otalgia.

1. Otitis externa (furuncle, diffuse inflammation of the external auditory canal, otomycosis, sulfur plug)
2. Diseases of pinna: hematoma of pinna, Perichondritis.
3. Conginential diseases of ear (macrotia, microtia, anotia). Etiology, clinical features, symptoms, diagnosis and treatment.
4. Diseases of the auditory tube.
5. Otalgia.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition
2. AH Sakshi. ENT. 2016. 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS. 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 4. Acute purulent inflammation of the middle ear. Mastoiditis. Arthrotomy: recognition of an inflammatory disease of the ear, determination of a complex of therapeutic measures and practical application in patients.

1. Acute supparative otitis media - stages of development, clinic, diagnosis, treatment, indications for paracentesis, outcomes diseases.
2. Features of the course of acute otitis media in childhood and infectious diseases.
3. Complications of ASOM: Acute mastoiditis, petrositis,
4. Pathogenesis, features of clinical manifestations, otoscopy pictures.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017.

Key questions covered in lesson 5. Chronic purulent otitis media. Tympanoplasty.

1. Types of CSOM: Tubo-tympanic, Attico-antral.
2. Features of the clinical course, otoscopic manifestations, impaired auditory function, depending on the localization of the process in middle ear.
3. Indications. Steps of Operation.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
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Key questions covered in lesson 6. Intracranial complications of otogenic origin. Determination of a set of therapeutic measures and practical application in patients.

4. Types of CSOM: Tubo-tympanic, Attico-antral.
5. Features of the clinical course, otoscopic manifestations, impaired auditory function, depending on the localization of the process in middle ear.
6. Cholesteatoma, caries, granulation. Complications of chronic purulent otitis media.
7. Methods of conservative treatment. Radical ear surgery. Hearing restorative operations, the main options for tympanoplasty.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010.
2. ENT Clinical Recommendations & Guidelines. 2023.
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Key questions covered in lesson 7. Module №1

PASS UNIT №1

Key questions covered in lesson 8. Otosclerosis. Meniere's disease. Sensorineural hearing loss. Describe the clinical features, research and principles of treatment of dizziness and tinnitus.

1. Otosclerosis - clinic, diagnostics, indications for surgical treatment.
2. Stapedoplasty.
3. Meniere's disease clinic, diagnostics, conservative therapy, indications for surgery treatment.
4. Operations in the tympanic cavity, drainage of the endolymphatic bag, periendolymphatic drainage and cochlear shunting, partial labyrinthectomy, vestibular neurotomy.
5. Sensorineural hearing loss, diagnostics, conservative therapy, indications for surgery treatment. Aetiology of SNHL. Acquired. Degree of hearing loss.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010.
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017.

Key questions covered in lesson 9. Clinical anatomy and physiology of the nose, paranasal sinuses. Examination methods. Diseases of the external nose, nasal vestibule, nasal septum.

1. External nose - its bone and cartilage bases, blood supply, innervation and lymphatic pathways
2. Internal nose-walls (superior, medial and inferior turbinates and meatues, Septum of nose)
3. Features of the nasal mucosa.
4. Regions of internal nose- vestibule, respiratory, olfactory.
5. Structure and topography paranasal sinuses, their age features. Methods for examining the nose and paranasal sinuses.
6. Diseases of the external nose, diagnostics, conservative therapy, indications for surgery treatment.
7. Diseases of the nasal vestibul diagnostics, conservative therapy, indications for surgery treatment.
8. Diseases of the nasal septum diagnostics, conservative therapy, indications for surgery treatment.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 10. Rhinitis: acute, chronic, vasomotor and other forms. Allergic rhinitis.

2. Acute rhinitis, classification, features of its manifestation and treatment in infants, children.
3. Nasal diphtheria, symptoms, treatment.
4. Chronic rhinitis, classification and principles of treatment.
5. Allergic rhinitis, classification and principles of treatment.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 11. Nasal polyps. Granulomatous and other nasal diseases.

1. Nasal polyps. Clinic, diagnosis, surgery and conservative treatment.
2. Granulomatous. Clinic, diagnosis, surgery and conservative treatment.

Recommended reading for the class:

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010

Key questions covered in lesson 12. Epistaxis. Describe the clinical manifestation, examination methods and principles of treatment of facial and neck injuries. Methods of combating these conditions, medical treatment, anterior and posterior nasal packing.

1. Nose bleed
2. Causes, methods of stopping (medicated cauterization, galvanocaustics, cryo- and ultrasonic effects, anterior and posterior tamponade).

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 13. Describe the clinical features, research and principles of treatment of tumors of the upper jaw.

1. Classification tumors of the upper jaw, their diagnosis, treatment.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 14. Module №2

1. PASS UNIT №2

Key questions covered in lesson 15. Acute and chronic sinusitis. Complications of sinusitis.

1. Acute and chronic sinusitis, the role of odontogenic infection in the pathology of the maxillary sinuses.
2. Additional research methods: diaphanoscopy, radiography (RCT and MRI), probing, puncture.
3. Endoscopic rhino- and sinusoscopy. Cysts of the maxillary sinuses, differential diagnosis with odontogenic cystic formations maxilla.
4. Intraorbital and intracranial complications of diseases of the nose and paranasal sinuses - pathogenesis, clinic, diagnosis, principles of treatment.

Recommended reading for the class:

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7,th edition, 2010
2. AH Sakshi.ENT.2016.7- th edition.
3. Andrew Blitzer, Jerome Schwartz, Phillip Song, Megha Young. Oxford American Handbook of Otolaryngology 2008 Copyright © 2008 by Oxford University Press, Inc.

Key questions covered in lesson 16. Clinical anatomy and physiology of the pharynx, lymphadenoid ring. Examination methods. Adenoids and other inflammatory diseases of the nasopharynx.

1. The pharynx, its divisions, paratonsillar and parapharyngeal tissue, pharyngeal space.
2. Lymphadenoid pharyngeal ring: palatine, pharyngeal, lingual, tubal tonsils.
3. The structure of the palatine tonsils.
4. Vessels and nerves of the pharynx functions. Methods for examining the pharynx.
5. Hypertrophy of adenoids. Grades. Adenoid faces. Conservative and syrgery treatment.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 17. Acute and chronic diseases of the pharynx. Make a document and submit a correct anamnesis, demonstrate and describe the clinical features, choose the correct methods of examinations and describe the principles of treatment depending on the type of dysphagia.

1. Acute pharyngitis - forms, treatment.
2. Chronic pharyngitis - forms, treatment.
3. Pharyngomycosis, differential diagnosis with lacunar tonsillitis.

Recommended reading for the class:

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7,th edition, 2010

Key questions covered in lesson 18. Describe the clinical features, examination methods and treatment principles of nasopharyngeal angiofibroma. Describe the clinical features, examination methods, and treatment principles of nasopharyngeal tumors.

1. nasopharyngeal angiofibroma. Clinical features, examination methods, and treatment

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 19. Acute and chronic tonsillitis Complications of the head and neck area (abscesses: paratonsillar, retropharyngeal, etc.). Describe the etiopathogenesis of oral cancer, symptoms, and signs of pharyngeal cancer. List the necessary tests and discuss treatment principles. Describe the clinical presentation, examination methods, and treatment principles of salivary gland diseases.

1. Acute primary tonsillitis - catarrhal, lacunar, follicular, ulcerative membranous tonsillitis, differential diagnosis with diphtheria of the pharynx.
2. Chronic tonsillitis - specific and non-specific. Reliable local signs of tonsillitis. Clinical forms chronic nonspecific tonsillitis. Principles of conservative and surgical treatment of chronic tonsillitis.
3. Acute secondary tonsillitis: damage to the tonsils in acute infectious diseases (diphtheria, scarlet fever, tularemia, abdominal typhoid) and in diseases of the blood system (infectious mononucleosis, agranulocytosis, alimentary-toxic aleukia, leukemia).

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 20. Clinical anatomy of the larynx, trachea, esophagus. Methods of examinations.

1. Cartilages, joints, ligaments, muscles of the larynx and their functions.
2. Structural features of the mucous membrane of the larynx, blood supply and innervation, lymphatic system larynx.
3. Respiratory, protective, voice and speech functions of the larynx.
4. Age-related anatomical topographic features of the larynx, tracheobronchial tree and esophagus.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 21. Module №3

PASS UNIT №3

Key questions covered in lesson 22. Acute and chronic diseases of the larynx. Acute laryngotracheitis in children. Identify, document, and present correct history, demonstrate and describe clinical signs, select appropriate tests, and describe treatment principles for hoarseness. Describe the clinical signs, tests, and treatment principles for stridor.

1. Abnormal development of the larynx, congenital membranes, stridor, laryngospasm in young children
2. Acute catarrhal laryngitis, laryngeal tonsillitis.
3. Laryngomalacia. Diphtheria of the larynx

4. Chronic laryngitis - classification, clinic, treatment.

Recommended reading for the class:

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7,th edition, 2010
2. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS. 2010 Clinical Publishing an imprint of Atlas Medical Publishing Ltd Oxford Centre for Innovation

Key questions covered in lesson 23. Paresis and paralysis of the larynx. Etiology, clinical picture, diagnosis, treatment. Laryngeal stenosis. Intubation and tracheostomy.

1. Paresis and paralysis of the muscles of the larynx,

Etiology, clinical picture, diagnosis, treatment.

2. Laryngeal stenosis. Etiology, Symtoms, treatmen

3. Intubation and tracheostomy. Technic.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 24. Describe the clinical features, research and treatment principles of malignant neoplasms of the larynx and laryngopharynx.

1Malignant neoplasms of the larynx, clinical features, research and treatment

2Malignant neoplasms of the laryngopharynx, clinical features, research and treatment

3. Recommended reading for the class:

PL Dhingra. Diseases of ear, nose and throat. 5,6,7,th edition, 2010

Key questions covered in lesson 25. Chemical burns of the esophagus. Foreign bodies in the respiratory and gastrointestinal tracts, injuries. Medication is the treatment for these conditions.

1. Corrosive burns of esophaghus. Aetiology. Pathology. Evalutions of patients. Management.
2. Foreign bodies of the ear, nose, pharynx, larynx, trachea, bronchi, esophagus clinic, diagnostics, doctor's tactics in this pathology.

Recommended reading for the class:

1) Basic

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7th edition, 2010
2. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.
3. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz.Otolaryngology. 2017

Key questions covered in lesson 26. Describe the clinical features, research methods and principles of treatment of ENT manifestations of HIV infection.

1. ENT manifestations of HIV infection patient, examination plan.
2. Recommended reading for

the class:

1) Basic

1. AH Sakshi. ENT 2016 7 th edition

2) Additional

1. Vinidh Paleri, John Hill. An Atlas of Investigation and Management. ENT INFECTIONS 2010
2. ENT Clinical Recommendations & Guidelines. 2023.

Key questions covered in lesson 27. Clinic: outpatient appointments. Supervision of ENT patients

3. ENT patient examination plan
4. Collection of complaints and anamnestic data.
5. External examination of the face, neck, ears (assessment of skin color, shape of the nose, ears, larynx).
6. Palpation of the facial walls of the paranasal sinuses, mastoid processes, larynx, lymph nodes (maxillary, submandibular, cervical and parotid).

7. Endoscopy of ENT organs.

Recommended reading for the class:

1. PL Dhingra. Diseases of ear, nose and throat. 5,6,7,th edition, 2010
2. Laura H. Swibel Rosenthal, Monica O. Patadia, James A. Stankiewicz. OtolaryngologyA Color Handbook. 2017. 488 Pages.
3. ENT Clinical Recommendations & Guidelines. 2023.

Key questions covered in lesson 28. Module № 4

PASS UNIT №4Final control. Solution of situational tasks.

Methodological instructions for the implementation of independent work on the discipline

Important role in the study of the discipline played by rational means: the methods of independent work organization, working conditions, daily routine, equipment labor, etc.

During the study of the discipline identify the following types of independent student learning:

- hearing lectures, participation in seminars, performance of practical and laboratory works;
- development of the topics of the lectures and seminars, performance of practical and laboratory works students of the correspondence form of training (FTRA);
- preparation of abstracts and course works, writing of the thesis; the preparation of modular control and examination;
- work with literature etc. Each of these types requires students resistant independent work.

In the process of preparation for the seminar, students independently practice literature (educational, methodological, scientific), learn to critically evaluate various sources of knowledge. The researcher organizes a discussion on pre-determined topics for which students prepare abstracts or individually completed abstracts. Such seminars are also called discussion seminars.

For independent work to be effective, the student must be deeply aware of its necessity, purpose and further usefulness for themselves. Mandatory conditions for successful implementation are:

- accurate and specific definition of the task,
- its motivation,
- the presence and knowledge of the student's methods of implementation, timing, forms and types of control, the

provision of advisory assistance by the teacher.

Materials for independent work, its volumes are selected by the scientific and pedagogical worker, he also defines

schedules, terms of performance, forms of control. Develops a system of tasks, topics of abstracts, course, qualification.