



SOUTH KAZAKHSTAN
**MEDICAL
ACADEMY**

EDUCATIONAL PROGRAM OF RESIDENCY

7R01128

OTORHINOLARYNGOLOGY (ADULTS, CHILDREN)

The educational program of residency «7R01128 Otolaryngology (adults, children)» was developed by the Department of Surgery, Otolaryngology and Urology

Head of the Department,
Acting Associate Professor

Kaldygozova G.E.

Protocol No. 8 from " 28 " 03 2025.

Agreed with the employer:

Chief physician of the clinic "Ai-Nury"
Shymkent c.



Saulenbaeva E.U.

Discussed at the meeting of the Academic Committee

Surgical profile

Chairman of the AC,

Acting Associate Professor

Kaldygozova G.E.

Protocol No. 4 from " 21 " 04 2025.

Approved by the Clinical Council

Chairman, Professor

Nurmashiev B.K.

Protocol No. 8 from " 25 " 04 2025.

Approved by the Academic Council

Protocol No. 13 from " 02 " 05 2025.

ONTUSTIK-KAZAKHSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ		SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Caphedra surgery, otorhinolaryngology and urology Educational program 7R01128 Otorhinolaryngology (adults, children)		
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Passport of the educational program

1. The mission of the educational program: to be recognized as a leader in the field of training highly specialized, competitive otorhinolaryngologists

2. The purpose of the educational program: Training of a qualified doctor-otorhinolaryngologist who has a system of universal, professional competencies, is able and ready for independent professional activity in the conditions of primary health care; specialized, including high-tech, medical care.

Objectives of the educational program:

Achieving high quality postgraduate medical education through the presentation of mandatory requirements for the level of training of students in the residency in otorhinolaryngology;

Regulation of the educational process and creation of a system for monitoring the effectiveness of educational and scientific organizations that train resident trainees in otorhinolaryngology;

Streamlining the rights and responsibilities of students in residency, stimulating independent educational and practical activities of resident interns in otorhinolaryngology.

3. Justification of the educational program:- for a resident: obtaining continuous integrated medical education in the field of otorhinolaryngology (adult, children's). At the end of 3 years of residency training, the graduate will be awarded a diploma, the qualification of an otorhinolaryngologist for adults and children.

- the need in the labor market: the provision of personnel with qualities such as high skill and professional perseverance, the necessary practical and theoretical knowledge, competence, observation and prudence, developed clinical thinking and passion.

4. Professional standard on which the educational program is based:

- Order of the Minister of Health of the Republic of Kazakhstan dated July 4, 2022 No. ҚР DSM-63 "On the approval of state compulsory standards by levels of education in the field of healthcare";
- On amendments and additions to the Order of the Minister of Health of the Republic of Kazakhstan "On the approval of the list of medical specialties of residency programs" dated May 25, 2021 No. ҚР DSM-43 and "On the approval of model curricula for medical and pharmaceutical specialties" dated January 9, 2023 No. 4 (Order of the Minister of Health of the Republic of Kazakhstan dated November 10, 2023 No. 164);
- Professional standard "Otorhinolaryngology (adults, children)". Standard for the organization of otorhinolaryngological care in the Republic of Kazakhstan — Order of the Minister of Health of the Republic of Kazakhstan No. ҚР DSM-92 dated August 26, 2021.

5. Field of professional activity: Healthcare

6. Objects of professional activity:

Medical organizations providing inpatient and outpatient care, healthcare system of the Republic of Kazakhstan



General information

№	EP purpose	Data
1	Registration number	7R09100148
2	Field of education	7R01 Healthcare (medicine)
3	Direction of personnel training	7R011 Healthcare
4	Group of educational programs	R028 Otorhinolaryngology adults, children
5	Educational program	7R01128 Otorhinolaryngology (adults, children)
6	EP type	New EP
7	The purpose of the educational program	Training of a qualified doctor-otorhinolaryngologist who has a system of universal, professional competencies, is able and ready for independent professional activity in the conditions of primary health care; specialized, including high-tech, medical care
8	Level on NQF	7
9	Level on SQF	7
10	Level on ORC	7
11	EP distinctive features	According to professional standard
12	List of competencies	C1 Patient supervision: is able to formulate a clinical diagnosis, prescribe a treatment plan and evaluate its effectiveness based on evidence-based practice at all levels of medical care C2 Communication and collaboration: He is able to effectively interact with the patient, his environment, and healthcare professionals in order to achieve the best results for the patient. C3 safety and quality: He is able to assess risks and use the most effective methods to ensure a high level of safety and quality of medical care. C4 Public health: He is able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in his specialty, provide basic assistance in emergency situations, and work as part of interprofessional teams to implement national health promotion policies. C5 Research: He is able to formulate adequate research questions, critically evaluate professional literature, effectively use international databases in his daily activities, and participate in the work of a research team. C6 Training and development: He is able to study independently and train other members of a professional team, actively participate in discussions, conferences and other forms of continuous professional development.
13	Educational outcome	ON1 In accordance with current medical care procedures, clinical recommendations (clinical protocols) on medical care, he is able to formulate a clinical diagnosis, prescribe a treatment plan, and evaluate its effectiveness based on evidence-based practice at all levels of otorhinolaryngological care for adults and children.



		ON2 Able to effectively interact with the patient, their environment, and healthcare professionals in order to achieve the best results for the patient ON3 Able to assess risks and use the most effective methods to ensure a high level of safety and quality of otorhinolaryngological care. ON4 Able to act within the legal and organizational framework of the healthcare system of the Republic of Kazakhstan in providing otorhinolaryngological care, maintaining medical records, analyzing medical and statistical information, in accordance with the requirements of regulatory legal acts, dynamic monitoring of patients (adults, children) with diseases of the upper respiratory tract and ear, provide basic assistance in emergency situations, work in as part of interprofessional teams to implement national health promotion policies. ON5 Able to formulate adequate research questions, critically evaluate professional literature, effectively use international databases in the activities of an otorhinolaryngologist, participate in the work of a research team. ON6 Able to train independently and train other members of a professional team, actively participate in discussions, conferences, and other forms of continuous professional development.
14	The form of education	Full-time
15	Language of education	russian, kazakh
16	Volume of the credits	210
17	Degree to be conferred	Otorhinolaryngologist of adults, children
18	The license number on the direction of training	KZ 36LAA00011387
19	Availability of OP accreditation	There are
	Name of the accreditation body	"INDEPENDENT ACCREDITATION AND RATING AGENCY" - IARA
	The validity period of the accreditation	27.05.2021 . - 26.05.2026 .
20	Information about the disciplines	Appendix 1.2

№	Name of the discipline	A brief description of the discipline	Cycle (DB, PD)	Component (MC, OC)	Number of credits	Generated learning outcomes (codes)
1	Emergency otorhinolaryngology	Using communication skills, is able to formulate a clinical diagnosis for urgent conditions of ENT organs. As part of compliance with clinical protocols, the resident uses effective methods of providing medical care in emergency otorhinolaryngology. The resident critically evaluates professional literature, uses an international database.	PD	UC	4	ON1 ON2 ON4
2	Anesthesiology and resuscitation	Anesthesia Preparing the patient for anesthesia. Premedication, goals and means. Types of anesthetics. Regional anesthesia methods. Combined and combined types of anesthesia. Infusion therapy in the postoperative period, during surgery, parenteral nutrition. Hemotransfusion. Features of the early postoperative period. Medical anesthesia. Intensive therapy and resuscitation in life-threatening syndromes. Acute respiratory failure.	PD	UC	6	ON3 ON4
3	Ambulatory-clinic otorhinolaryngology, adult	Studies the general issues of the organization of outpatient care in the Republic of Kazakhstan. During the training process, the resident uses neural networks to interpret the results of X-rays of ENT organs, perform differential diagnostics, prescribe the necessary instrumental and laboratory examination methods to ensure a high level of quality of medical care. The resident, assessing the risks, draws up a treatment plan.	PD	UC	15	ON1 ON2 ON4
4	Otorhinolaryngology in the hospital adult	Modern scientific achievements in the field of otorhinolaryngology; development of methods of diagnosis and treatment, including surgical interventions in the pathology of ENT organs. Injuries and chronic diseases of ENT organs to the extent necessary for independent work of an ENT doctor in an adult hospital.	PD	UC	45	ON1 ON2 ON6
5	Ambulatory-clinic otorhinolaryngology, pediatric	Organization and methods of dispensary supervision. Accounting and evaluation of the effectiveness of medical examinations. Modern scientific achievements in the field of pediatric otorhinolaryngology. Diagnostic and therapeutic manipulations in outpatient settings for diseases of ENT organs of children. Outpatient care.	PD	UC	15	ON1 ON2 ON6
6	Otorhinolaryngology in a	Structure and organization of children's otorhinolaryngological hospital. Modern scientific achievements in the field of pediatric otorhinolaryngology; development of methods of diagnosis and	PD	UC	45	ON1 ON2 ON6

	children's hospital	treatment, including surgical interventions, in the pathology of ENT organs, to the extent necessary for independent work of an ENT doctor in a children's hospital.				
7	Otolaryngology-oncology	Theoretical and clinical training of practical skills in diagnosis and treatment, by modern methods, of neoplasms of the upper respiratory tract and ear, in the conditions of ENT and oncological hospitals and polyclinics. Mastering modern laboratory, invasive and non-invasive methods of examination, differential diagnosis of neoplasms of the upper respiratory tract and ear. Study of modern innovative methods of treatment of patients with neoplasms of the upper respiratory tract and ear	PD	UC	10	ON1 ON2 ON6
8	Functional endoscopic rhinosinusosurgery	Modern methods of treatment and rehabilitation in the field of endoscopic rhinosinusosurgery; Methods of diagnosis and surgical interventions for pathology of the nose and paranasal sinuses to the extent necessary for the independent work of the ENT specialist in an adult and children's hospital.	PD	UC	15	ON2 ON3 ON6
9	Phoniatics	Modern high-tech methods of diagnostics, prevention and surgical interventions for diseases of the vocal organs and injuries of the neck, as well as ways to correct the tone/intensity in the desired direction. Surgical and conservative methods of treatment in phoniatics. Vinopedia. Videostro	PD	UC	10	ON1 ON2 ON6
10	Otoneurology	Diseases caused by a violation of the nervous apparatus of the inner ear and adjacent anatomical formations. Methods of diagnosis and treatment, including surgical interventions, for pathology of the external, middle and inner ear (including the vestibular apparatus). Injuries of the outer and middle ear. Hearing-improving operations.	PD	UC	10	ON1 ON2 ON6
11	Ear Microsurgery	Modern scientific achievements and methods of treatment in the field of ear microsurgery. Mastering modern diagnostic methods and qualified medical surgical care for hearing pathology, to the extent necessary for the independent work of an ENT doctor in adult and children's hospitals. Rehabilitation of surdological patients by surgical methods.	PD	UC	10	ON2 ON3 ON6
12	Audiology	Organization of surdological assistance to the population of the Republic of Kazakhstan. The work of the surdological office. Specialized method of examination of hearing-impaired patients. Audiometry. The impedance measurements. ABR. Otoacoustic emission. Highly qualified methods of conservative and surgical treatment of various pathologies of the middle and inner ear. Hearing aid. Cochleaimplantat. Social rehabilitation.	PD	UC	15	ON1 ON2 ON6
The cycle of core disciplines						
Component of choice						
1	Neoplasms of the upper respiratory tract and ear	Theoretical and clinical training of practical skills of diagnosis and treatment, modern methods, tumors of the upper respiratory tract and ear, in the conditions of ENT and oncostatic clinics and clinics.	PD	EC	4	ON1 ON2 ON6
2	Otosurgery	Modern scientific advances in ear surgery; development of diagnostic methods and surgical interventions in case of hearing pathology, to the extent necessary for the independent work of the ENT specialist of the hospital. Rehabilitation of audiological patients with surgical methods.	PD	EC		ON2 ON3 ON5
3	Rhinology	Semiotics of rhinological diseases. Endoscopic methods of examination and treatment of the nose and paranasal sinuses. Acute and chronic diseases of the nose and paranasal sinuses. Hyposmia, anosmia. Injuries and foreign bodies of the nose and paranasal sinuses. Nosebleed. Emergency care for diseases of the nose and paranasal sinuses.	PD	EC	4	ON1 ON2 ON6
4	Head and neck tumors	Modern scientific advances in oncology of the head and neck; development of diagnostic methods and surgical interventions for	PD	EC		ON1 ON2 ON6

		neoplasms of ENT organs in the amount necessary for independent work of an ENT specialist.				
5	Otology	Modern scientific achievements in the field of otorhinolaryngology; mastering methods of diagnosis and treatment, including surgical interventions, in the pathology of the external, middle and inner ear (including the vestibular apparatus), to the extent necessary for the independent work of an ENT doctor of the outpatient service and hospital. External and middle ear injuries (auricle hematoma, posttraumatic otitis externa, posttraumatic perforation of the eardrum). Hearing-improving operations.	PD	EC		ON1 ON2 ON6
		IN TOTAL			208	
		FINAL CERTIFICATION			2	
		TOTAL			210	

Professional standard: "Otorhinolaryngology (adults, children)"

Card professions 7.2 Otorhinolaryngologist	Mandatory labor functions :	1. Inpatient care and dynamic monitoring of patients with diseases of the upper respiratory tract and ear. 2. Outpatient treatment of patients with diseases of the ear and upper respiratory tract. 3. Participation in the management medical documentation , medical statistics information
	Additional labor functions :	1. Continuous professional development
Job function 1: Inpatient care and dynamic observation of patients with diseases of the upper respiratory tract and ear.	Skill 1: Examination of patients (adults, children) and diagnosis of the most common diseases of the upper respiratory tract and ear in accordance with current procedures for the provision of medical care, clinical guidelines (clinical protocols) on issues of providing medical care, taking into account the standards of medical care.	Skills: 1. Collect a complete medical history of ENT pathology. 2. Skills in developing a patient examination plan, conducting a primary examination of adult and pediatric patients. 3. Draw up medical documentation. 4. Determine the need for special examination methods. 5. Use the following ear examination methods: 1) examination of a healthy ear; 2) examination and palpation of the auricle, external opening of the auditory canal, behind the ear, in front of the auditory canal; 3) otoscopy; 4) examination of the ventilation function of the auditory tube; 5) empty swallow test; 6) Toynbee's method; 7) Valsalva 's method ; 8) Politzer's method ; 9) blowing out the auditory tubes through an ear catheter; 10) methods of radiation diagnostics; 11) lateral plain radiography of the temporal bones according to Schüller 12) axial projection according to Mayer; 13) oblique projection according to Stenvers ; 14) CT; 15) MRI; 16) examination of the auditory analyzer; 17) perception of whispered and spoken speech; 18) examination of hearing with tuning forks; 19) Federice experiment ; 20) Rinne experiment ; 21) Weber experiment; 22) pure-tone threshold audiometry; 23) pure-tone threshold audiometry by air conduction; 24) pure-tone threshold audiometry by bone conduction; 25) suprathreshold audiometry;

- 26) test of differential or difference threshold of sound intensity according to Luscher 8181 test;
- 27) loudness equalization test (E. Fowler);
- 28) test for determination of PD;
- 29) speech audiometry;
- 30) acoustic impedancemetry ;
- 31) tympanometry ;
- 32) acoustic reflexometry ;
- 33) study of vestibular analyzer functions;
- 34) review of typical complaints of dizziness;
- 35) spontaneous nystagmus;
- 36) tonic reactions of hand deviation;
- 37) pointing tests;
- 38) finger-to-finger test; 39) Fisher-Wodak test ;
- 40) study of stability in Romberg's pose ;
- 41) straight line and flank gait; 42) adiadochokinesis test for differential diagnosis of cerebellar and vestibular lesions;
- 43) examination of the nose and PNP;
- 44) examination of the external nose and projection sites of the paranasal sinuses on the face;
- 45) palpation of the external nose;
- 46) palpation of the anterior and inferior walls of the frontal sinuses;
- 47) palpation of the exit point of the first branches of the trigeminal nerve;
- 48) palpation of the anterior walls of the maxillary sinuses;
- 49) palpation of the submandibular and cervical lymph nodes;
- 50) anterior and posterior rhinoscopy;
- 51) examination of the respiratory and olfactory functions of the nose;
- 52) radiography;
- 53) endomicroscopy of the nose and paranasal sinuses.
- 54) technique of examination of the pharynx;
- 55) external examination and palpation;
- 56) endoscopy of the pharynx.
- 57) oroscopy ;
- 58) mesopharyngoscopy ;
- 59) epipharyngoscopy (posterior rhinoscopy);
- 60) digital examination of the nasopharynx;
- 61) technique of examination of the larynx;
- 62) external examination and palpation;
- 63) indirect laryngoscopy (hypopharyngoscopy);
- 64) direct laryngoscopy with a flexible endoscope.
6. Justify and plan the scope of instrumental examination of patients with diseases and (or) conditions of the ear, throat and nose.
7. Interpret and analyze the results of examination, instrumental studies and examination of adult and child patients with diseases and (or) conditions of the ear, throat and nose.
8. Justify and plan the scope of instrumental examination of adult and child patients with diseases and (or) conditions of the ear, throat and nose.
9. Justify and plan the scope of laboratory examination of adult and child patients with diseases and (or) conditions of the ear, throat and nose.
10. Interpret and analyze the results of laboratory examination of adult and child patients with diseases and (or) conditions of the ear, throat and nose.
11. Justify the need to refer patients with diseases and (or) conditions of the ear, throat and nose to medical specialists.
12. Interpret and analyze the results of examination by medical specialists of adult and pediatric patients with diseases and (or) conditions of the ear, throat and nose.
13. Identify clinical symptoms and syndromes in adult and pediatric patients with diseases and (or) conditions of the ear, throat and nose.



14. Use medical devices when examining patients.
15. Skills in diagnostics and differential diagnostics of the most common diseases of the ENT organs, including the purpose and interpretation of diagnostic test results, formulation of a diagnosis in accordance with ICD-10 when a disease is detected.
16. Timely identify complications of diseases of the ENT organs.
17. Identify symptoms and syndromes of complications, side effects, adverse reactions, including serious and unexpected ones, that have arisen as a result of diagnostic procedures in patients with diseases and (or) conditions of the ear, throat, nose.
18. Skills in preparing documentation for planned and emergency hospitalization of adult and child patients with ENT diseases.
19. Skills in determining signs of disability and filling out a referral to the Medical and Social Expertise and Psychological, Medical and Pedagogical Commission.
20. Determine indications and contraindications for prescribing drugs in patients with ENT diseases.
21. Prescribe, evaluate the effectiveness and safety of drugs, medical devices and non-drug therapy for adult and child patients with ENT diseases.
22. Develop and prescribe outpatient treatment for adult and child patients with ENT pathology.
23. Draw up a patient treatment plan, determine indications and contraindications for surgery.
24. Assess the effectiveness of the treatment and diagnostic measures taken for adult and pediatric patients with ear and upper respiratory tract diseases.
25. Provide emergency medical care to patients in accordance with the procedures for providing medical care, based on clinical guidelines, taking into account the standards of medical care - for conditions and diseases that require resuscitation and intensive care measures, for adult and pediatric patients with ENT diseases.
26. To prescribe and perform therapeutic manipulations and surgical interventions for adult and pediatric patients with diseases of the ear, throat and nose:
 - 1) otolaryngological care for patients with burns and injuries to the ENT organs;
 - 2) restoration of airway patency;
 - 3) stopping bleeding from the ENT organs;
 - 4) primary surgical treatment of wounds to the ENT organs;
 - 5) removal of foreign bodies from the ENT organs;
 - 6) drawing up an auditory and vestibular passport;
 - 7) anemization , nasal toilet after surgery;
 - 8) lavage of the nasal cavity according to Proitz ,
 - 9) vacuum drainage;
 - 10) puncture of the maxillary and frontal sinuses;
 - 11) lavage of the lacunae of the palatine tonsils, including the use of specialized medical equipment (if available);
 - 12) ear toilet with insertion of a turunda with a medicinal substance;
 - 13) removal of a foreign body from the ENT organs;
 - 14) opening of furuncles, abscesses of the ENT organs (uncomplicated);
 - 15) novocaine blockades of the ENT organs;
 - 16) instillation of medicinal preparations (including transtympanic administration, intralaryngeal infusions, etc.);
 - 17) application of an aseptic dressing;
 - 18) catheterization of the auditory tube;
 - 19) taking a smear and material from the ENT organs for bacteriological culture and histological analysis;
 - 20) opening of uncomplicated abscesses of the ENT organs;
 - 21) paracentesis of the eardrum and shunting of the tympanic cavity;
 - 22) opening of a furuncle of the nose;
 - 23) reposition of the nasal bones;
 - 24) vasotomy ;

25) conchotomy ;
26) polypotomy of the nasal cavity;
27) operations on the nasal sinuses;
28) myringoplasty ;
29) tympanoplasty ;
30) excision of the parotid fistula;
31) adenotomy (under local and general anesthesia);
32) tonsillotomy ;
33) tonsillectomy (under local and general anesthesia);
34) opening of the peritonsillar abscess;
35) tracheostomy .
27. Skills in providing palliative care to adult and pediatric patients with ENT diseases.
28. Skills in interacting with other specialists and services on issues of treatment, rehabilitation, insurance.
29. Skills in providing inpatient surgical care, performing operations:
1) antromastoidotomy ;
2) radical ear surgery;
3) operations on the nasal sinuses;
4) operations for fractures of the nasal sinuses;
5) polypotomy of the nasal cavity;
6) endoscopic endonasal dacryocystorhinostomy ;
7) myringoplasty ;
8) dissection, excision and destruction of the inner ear;
9) stapedoplasty ;
10) cochlear implantation;
11) excision of the parotid fistula;
12) removal of benign neoplasms of the ENT organs;
13) conchotomy ;
14) operations for laryngeal stenosis;
15) plastic surgery of the outer and inner ear in case of their atresia;
16) operations for exostosis of the external auditory canal;
17) choanoplasty ;
18) uvuloplasty ;
19) esophagoscopy.
30. Skills in diagnostics and differential diagnostics of the most common diseases of the ENT organs, including the purpose and interpretation of the results of diagnostic studies, formulation of a diagnosis according to ICD-10 when a disease is detected.
31. Timely identification of complications of ENT diseases.
32. Skills in preparing documentation for planned hospitalization of patients.
33. Skills in determining signs of disability and filling out referrals to the Medical and Social Expertise and Psychological, Medical and Pedagogical Commission.
Knowledge:
1. Knowledge of evidence-based medicine in the clinical practice of an otolaryngologist .
2. Knowledge of the results of modern research regarding the diagnosis of rare pathological conditions.

Skill 2:
Management and dynamic observation of patients (adults, children) with diseases of the upper respiratory tract and ear

Skills:
1. Skills in managing adult and child patients with ear and upper respiratory tract diseases.
2. Skills in managing adult and child patients registered with a dispensary.
3. Skills in dynamic observation of adult and child patients with upper respiratory tract and ear diseases.
4. Skills in informing adult and child patients or their legal representative about the possibility of choosing methods and techniques for preventing, examining and treating ENT diseases.
5. Establishing productive communication relationships with patients and applying this skill during consultations.

		6. Skills in filling out automated information systems used at the PHC level, skills in working in the Portal of the information system for drug provision, the portal of the Kazakhstan National Formulary. 7. Skills in filling out reporting and accounting documentation, writing prescriptions. 8. Skills in preparing annual reports on outpatient appointments. 9. Coordinate the activities of other specialists, including in the context of the primary health care system in the context of PHC. Knowledge: 1. Knowledge of evidence-based medicine in the clinical practice of an otolaryngologist. 2. Knowledge of the results of modern research regarding disease prevention.
Job Function 2: Outpatient treatment of patients with diseases of the ear and upper respiratory tract.	Skill 1: Outpatient treatment of patients (adults, children) with diseases of the ear and upper respiratory tract, in accordance with current procedures for the provision of medical care, clinical guidelines (clinical protocols) on issues of providing medical care, taking into account the standards of medical care.	Skills: 1. Collect a complete medical history of ENT pathology. 2. Skills in developing a patient examination plan, conducting a primary examination of adult and pediatric patients. 3. Draw up medical documentation. 4. Determine the need for special examination methods. 5. Use the following ear examination methods: 1) examination of a healthy ear; 2) examination and palpation of the auricle, external opening of the auditory canal, behind the ear, in front of the auditory canal; 3) otoscopy; 4) examination of the ventilation function of the auditory tube; 5) empty swallow test; 6) Toynbee's method; 7) Valsalva's method ; 8) Politzer's method ; 9) blowing out the auditory tubes through an ear catheter; 10) methods of radiation diagnostics; 11) lateral plain radiography of the temporal bones according to Schüller ; 12) axial projection according to Mayer; 13) oblique projection according to Stenvers ; 14) CT; 15) MRI; 16) examination of the auditory analyzer; 17) perception of whispered and spoken speech; 18) examination of hearing with tuning forks; 19) Federice experiment ; 20) Rinne experiment ; 21) Weber experiment; 22) pure-tone threshold audiometry; 23) pure-tone threshold audiometry by air conduction; 24) pure-tone threshold audiometry by bone conduction; 25) suprathreshold audiometry; 26) test of differential or difference threshold of sound intensity according to Luscher 8181 test; 27) loudness equalization test (E. Fowler); 28) test for determination of PD; 29) speech audiometry; 30) acoustic impedancemetry ; 31) tympanometry ; 32) acoustic reflexometry ; 33) study of vestibular analyzer functions; 34) review of typical complaints of dizziness; 35) spontaneous nystagmus; 36) tonic reactions of hand deviation; 37) pointing tests; 38) finger-to-finger test; 39) Fisher-Wodak test ;

40) study of stability in Romberg's pose ;
 41) straight line and flank gait; 42) adiadochokinesis test for differential diagnosis of cerebellar and vestibular lesions;
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 45) palpation of the external nose;
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 47) palpation of the exit point of the first branches of the trigeminal nerve;
 48) palpation of the anterior walls of the maxillary sinuses;
 49) palpation of the submandibular and cervical lymph nodes;
 50) anterior and posterior rhinoscopy;
 51) examination of the respiratory and olfactory functions of the nose;
 52) radiography;
 53) endomicroscopy of the nose and paranasal sinuses.
 54) technique of examination of the pharynx;
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 56) endoscopy of the pharynx.
 57) oroscopy ;
 58) mesopharyngoscopy ;
 59) epipharyngoscopy (posterior rhinoscopy);
 60) digital examination of the nasopharynx;
 61) technique of examination of the larynx;
 62) external examination and palpation;
 63) indirect laryngoscopy (hypopharyngoscopy);
 64) direct laryngoscopy with a flexible endoscope.
 6. Justify and plan the scope of instrumental examination of patients with diseases and (or) conditions of the ear, throat and nose.
 7. Interpret and analyze the results of examination, instrumental studies and examination of adult and child patients with diseases and (or) conditions of the ear, throat and nose.
 8. Justify and plan the scope of instrumental examination of adult and child patients with diseases and (or) conditions of the ear, throat and nose.
 9. Justify and plan the scope of laboratory examination of adult and child patients with diseases and (or) conditions of the ear, throat and nose.
 10. Interpret and analyze the results of laboratory examination of adult and child patients with diseases and (or) conditions of the ear, throat and nose.
 11. Justify the need to refer patients with diseases and (or) conditions of the ear, throat and nose to medical specialists.
 12. Interpret and analyze the results of examination by medical specialists of adult and pediatric patients with diseases and (or) conditions of the ear, throat and nose.
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 18. Skills in preparing documentation for planned and emergency hospitalization of adult and child patients with ENT diseases.
 19. Skills in determining signs of disability and filling out a referral to the Medical and Social Expertise and Psychological, Medical and Pedagogical Commission.



20. Determine indications and contraindications for prescribing drugs in patients with ENT diseases.
21. Prescribe, evaluate the effectiveness and safety of drugs, medical devices and non-drug therapy for adult and child patients with ENT diseases.
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24. Assess the effectiveness of the treatment and diagnostic measures taken for adult and pediatric patients with ear and upper respiratory tract diseases.
25. Provide emergency medical care to patients in accordance with the procedures for providing medical care, based on clinical guidelines, taking into account the standards of medical care - for conditions and diseases that require resuscitation and intensive care measures, for adult and pediatric patients with ENT diseases.
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 - 5) removal of foreign bodies from the ENT organs;
 - 6) drawing up an auditory and vestibular passport;
 - 7) anemization, nasal toilet after surgery;
 - 8) lavage of the nasal cavity according to Proitz,
 - 9) vacuum drainage;
 - 10) puncture of the maxillary and frontal sinuses;
 - 11) lavage of the lacunae of the palatine tonsils, including the use of specialized medical equipment (if available);
 - 12) ear toilet with insertion of a turunda with a medicinal substance;
 - 13) removal of a foreign body from the ENT organs;
 - 14) opening of furuncles, abscesses of the ENT organs (uncomplicated);
 - 15) novocaine blockades of the ENT organs;
 - 16) instillation of medicinal preparations (including transtympanic administration, intralaryngeal infusions, etc.);
 - 17) application of an aseptic dressing;
 - 18) catheterization of the auditory tube;
 - 19) taking a smear and material from the ENT organs for bacteriological culture and histological analysis;
 - 20) opening of uncomplicated abscesses of the ENT organs;
 - 21) paracentesis of the eardrum and shunting of the tympanic cavity;
 - 22) opening of a furuncle of the nose;
 - 23) reposition of the nasal bones;
 - 24) vasotomy;
 - 25) conchotomy;
 - 26) polypotomy of the nasal cavity;
 - 27) operations on the nasal sinuses;
 - 28) myringoplasty;
 - 29) tympanoplasty;
 - 30) excision of the parotid fistula;
 - 31) adenotomy (under local and general anesthesia);
 - 32) tonsillotomy;
 - 33) tonsillectomy (under local and general anesthesia);
 - 34) opening of the peritonsillar abscess;
 - 35) tracheostomy.
27. Skills in providing palliative care to adult and pediatric patients with ENT diseases.
28. Skills in interacting with other specialists and services on issues of treatment, rehabilitation, insurance.



		29. Skills in providing inpatient surgical care, performing operations: 1) antromastoidotomy ; 2) radical ear surgery; 3) operations on the nasal sinuses; 4) operations for fractures of the nasal sinuses; 5) polypotomy of the nasal cavity; 6) endoscopic endonasal dacryocystorhinostomy ; 7) myringoplasty ; 8) dissection, excision and destruction of the inner ear; 9) stapedoplasty ; 10) cochlear implantation; 11) excision of the parotid fistula; 12) removal of benign neoplasms of the ENT organs; 13) conchotomy ; 14) operations for laryngeal stenosis; 15) plastic surgery of the outer and inner ear in case of their atresia; 16) operations for exostosis of the external auditory canal; 17) choanoplasty ; 18) uvuloplasty ; 19) esophagoscopy. 30. Skills in diagnostics and differential diagnostics of the most common diseases of the ENT organs, including the purpose and interpretation of the results of diagnostic studies, formulation of a diagnosis according to ICD-10 when a disease is detected. 31. Timely identification of complications of ENT diseases. 32. Skills in preparing documentation for planned hospitalization of patients. 33. Skills in determining signs of disability and filling out referrals to the Medical and Social Expertise and Psychological, Medical and Pedagogical Commission. Knowledge: 1. Knowledge of evidence-based medicine in the clinical practice of an otolaryngologist . 2. Knowledge of the results of modern research in relation to the diagnosis of rare pathological conditions. Knowledge: 1. Knowledge of evidence-based medicine in the clinical practice of an otolaryngologist . 2. Knowledge of the results of modern research in relation to the diagnosis of rare pathological conditions.
	Skill 2: Diagnostics of rare pathological conditions of ENT organs in patients (adults, children).	Skills: 1. Skills in diagnosing rare pathological conditions of ENT organs. 2. Skills in analyzing the results of instrumental examination methods and laboratory diagnostic studies in diagnosing rare pathological conditions of ENT organs in adults and children. 3. Skills in organizing medical consultations. Knowledge: 1. Knowledge of evidence-based medicine in otolaryngology. 2. Knowledge of epidemiology, etiology, pathogenesis, pathomorphology, clinical picture, diagnosis of rare pathological conditions of ENT organs in adults and children. 3. Knowledge of indications for prescribing instrumental examination methods, laboratory diagnostic studies in diagnosing rare pathological conditions of ENT organs in adults and children. 4. Knowledge of the results of modern research regarding the diagnosis of rare pathological conditions of ENT organs in adults and children.
Job Function 3: Participation in the management of medical documentation, medical and statistical information	Skill 1: Maintaining medical records, analyzing medical and statistical information, in accordance with the requirements	Skills: 1. Plan work and prepare a report with an analysis of the indicators of one's own activity. 2. Maintain medical documentation, including in electronic form, and monitor the quality of its maintenance. 3. Conduct an analysis of medical and statistical indicators of the work of the specialized medical department. 4. Use personal data of patients and information in work, in accordance with the



	of regulatory legal acts in the field	law. 5. Use information systems in accordance with the established procedure. Knowledge: 1. Order of the acting . Minister of Health of the Republic of Kazakhstan dated October 30, 2020 No. ҚР ДСМ-175/2020 "On approval of forms of accounting documentation in the field of healthcare, as well as instructions for filling them out (registered with the Ministry of Justice of the Republic of Kazakhstan on November 4, 2020 No. 21579). 2. Order of the Minister of Health of the Republic of Kazakhstan dated December 22, 2020 No. ҚР ДСМ-313/2020 "On approval of forms of reporting documentation in the field of healthcare" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 23, 2020 No. 21879). 3. Order of the Minister of Health of the Republic of Kazakhstan dated December 10, 2020 No. ҚР ДСМ-244/2020 "On approval of the rules for maintaining primary medical documentation and submitting reports" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 11, 2020 No. 21761). 4. Electronic accounting and documentation systems. 5. Confidentiality of patients' medical information. 6. Fundamentals of medical statistics.
Additional Job Function 1: Continuous Professional Development	Skill 1: Commitment to Professional Improvement	Skills: 1. Participate in professional training events: conferences, seminars, webinars , advanced training courses. 2. Participate in academic and scientific activities. 3. Take part in the work of professional associations, committees and working groups to discuss health issues, exchange experiences with colleagues. Knowledge: 1. Order of the Minister of Health of the Republic of Kazakhstan dated December 21, 2020 No. ҚР ДСМ-303/2020 "On approval of the rules for additional and informal education of specialists in the field of health care, qualification requirements for organizations implementing educational programs of additional and informal education in the field of health care, as well as the rules for recognizing the learning outcomes obtained by specialists in the field of health care through additional and informal education (registered with the Ministry of Justice of the Republic of Kazakhstan on December 22, 2020 No. 21847). 2. Order of the Minister of Health of the Republic of Kazakhstan dated December 20, 2020 No. ҚР ДСМ-283/2020 "On approval of the rules for confirming the results of continuous professional development of health care workers" (registered with the Ministry of Justice of the Republic of Kazakhstan on December 22, 2020 No. 21843). 3. Opportunities for networking and communication with colleagues from your professional field. 4. Current trends , research and development in specialized areas .
Personal requirements competencies :	Empathy Sociability Tolerance and respect Cooperation and teamwork Stress resistance Reflection and self-analysis Compliance with professional ethics Openness and willingness to learn Activity and initiative Striving for professionalism development	

