

Ministry of Health of the Kyrgyz Republic
Ministry of Education and Science of the Kyrgyz Republic
I.K. Akhunbaev Kyrgyz State Medical Academy

COMPETENCIES CATALOG

Higher education institution graduate with specialty 560002 "Pediatrics"

PRE-GRADUATE LEVEL

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The materials of the State Educational Standard of Higher Professional Education in the specialty "Pediatrics" were used in the development of the competence catalog.

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EXPLANATORY NOTE

According to the State Educational Standard of Higher Professional Education, a graduate must master the following types of activities:

- prophylactic,
- diagnostic,
- medical,
- rehabilitation,
- psychological and pedagogical,
- organizational and managerial,
- scientific research.

This catalog defines the tasks corresponding to the listed types of activities.

Based on this catalog of tasks:

the following are determined:

- the purpose and content of pre-graduate training of a pediatrician,
- the level of competencies, knowledge and skills of the graduate;

the following are being developed:

- pre-graduate training programs for pediatricians,
- criteria for assessing the quality of students' training at various stages of education;

the following are being organized:

- the educational process,
- professional orientation of applicants entering medical universities;

the following is held:

- State final certification of graduates

For practical convenience, the objectives in the catalog are distributed in the following way:

Chapter 1. General objectives

Chapter 2. Disciplinary objectives - clinical conditions

Chapter 3. Medical manipulations

Chapter 1 "General objectives" lists the general and special competencies that a graduate must master (in accordance with the State Educational Standard of Higher Professional Education in the specialty 560002 "Pediatrics").

In **Chapter 2 "Disciplinary objectives"** are presented by discipline. Each discipline has a block "**Clinical conditions /nosology**", which includes a list of diseases /pathological conditions that a graduate should be able to diagnose and/or treat. The following gradation is used to indicate the level of knowledge and practical competencies:

	Level 1	Level 2
Clinical conditions	<p><i>The graduate is capable and ready on his own:</i></p> <ul style="list-style-type: none"> - to make a plan of diagnostic measures, - to make a clinical diagnosis, - to carry out the necessary diagnostic, - to carry out rehabilitation and prophylactic measures in children. 	<p><i>The graduate is capable and ready:</i></p> <ul style="list-style-type: none"> - to make a preliminary diagnosis, - to send for consultation to the appropriate specialist, - to carry out prophylactic and rehabilitative measures after verification of the diagnosis by a specialist.

Diseases/pathological conditions are presented in groups, by discipline:

- Children’s diseases
- Polyclinic pediatrics
- Children’s infectious diseases
- Children’s surgery
- Internal diseases
- Infectious diseases
- Obstetrics and gynecology
- Surgical diseases
- Nervous diseases
- Diseases of the ear, throat, nose
- Skin and venereal diseases
- Mental and behavioral disorders
- Phthisiatry
- Eye diseases
- Oncology
- Children’s stomatology
- Children’s anesthesiology and resuscitation
- Emergency conditions

Chapter 3, "Medical manipulations," lists manipulations that a graduate should be familiar with and/or master to some extent. The following level gradation is used to describe the level of proficiency that a graduate should possess:

	Level 1	Level 2
Medical manipulations	<p>Graduate:</p> <ul style="list-style-type: none"> - <i>owns</i> the correct technique of performing manipulation, - <i>has</i> sufficient experience in performing manipulation on children of all age categories, except newborns. 	<p>Graduate:</p> <ul style="list-style-type: none"> - is able to perform manipulation under the supervision of a mentor, has experience in performing manipulation on a moulage /simulator

All medical manipulations are conditionally grouped into the following groups:

- General manipulations (interviewing or collecting a patient's anamnesis, information management, physical examination)
- Manipulations in neonatology
- Manipulations used in surgery, including children's surgery
- Otorhinolaryngological manipulations
- Ophthalmological manipulations
- Manipulations used in children's infection
- Manipulations used in dermatovenerology
- Manipulations used in psychiatry
- Manipulations used in obstetrics and gynecology
- Manipulations for emergency care

CHAPTER 1. GENERAL OBJECTIVES

Common objectives can be formulated in the form of general (universal) and special (professional) competencies. Special competencies are distributed according to the types of professional activity of the doctor.

General competencies	
GC-1	is able and ready to analyze socially significant problems and processes, use the methods of natural sciences, mathematics and humanities in various types of professional and social activities
GC-2	is capable and ready to analyze significant political events and trends, to master the basic concepts and patterns of the world historical process, to respect and respect historical heritage and traditions, to assess state policy, to form a civic position
GC-3	is able and ready to collect, process and interpret, using modern information technologies, the data necessary to form judgments on relevant social, scientific and ethical issues
GC-4	is able and ready to work in a team, to perceive social, ethnic, confessional and cultural differences with tolerance
Instrumental competencies	
IC-1	is capable and ready to work with computer equipment and software for system and application purposes to solve professional tasks
IC-2	is able and ready to use information, bibliographic resources and information and communication technologies, considering the basic requirements of information security
IC-3	is capable and ready for written and oral communication in the state language and official languages, is able to master one of the foreign languages to solve professional tasks
IC-4	is able and ready to use management methods; organize the work of performers; find and make responsible management decisions in the context of different opinions and within his professional competence
Socio-personal and general cultural competencies	
SPC-1	is capable and ready to implement ethical, deontological and bioethical principles in his professional activity
SPC-2	is capable and ready to master the techniques of professional communication; build interpersonal relationships, work in a group, constructively resolve conflict situations, tolerate social, ethnic, confessional and cultural differences
SPC-3	is capable and ready for continuous professional development, self-knowledge, self-development, self-actualization; manage his time, plan and organize his activity, build a strategy for personal and professional development and training
SPC-4	is able and ready to carry out his activity considering the moral and legal norms accepted in society, comply with laws and regulations on working with confidential information, and bear social and ethical responsibility for decisions made

SPC-5	is capable and ready for logical and reasoned analysis, for public speech, for discussion and polemics, for educational and educational activities, for cooperation
Professional competencies	
<i>General professional competencies</i>	
PC-1	is able and ready to comply with the rules of medical ethics and deontology, laws and regulations on working with confidential information, and to maintain medical secrecy
PC-2	is able and ready to analyze the results of his own activities to prevent medical errors, while being aware of disciplinary, administrative, civil, and criminal liability
PC-3	is able and ready to analyze socially significant problems and processes, use methods of economic relations in the healthcare system
PC-4	is able and ready to assess the anatomical and physiological features of the state of various cellular, tissue and organ structures in humans, conduct a pathophysiological analysis of clinical syndromes, justify pathogenetically justified methods (principles) of diagnosis, treatment, rehabilitation and prevention among children, considering age and gender groups
PC-5	is able and ready to perform and interpret a survey, a physical examination, a clinical examination, the results of modern laboratory and instrumental studies, to issue a medical card for an outpatient and inpatient sick child
PC-6	is able and ready to apply methods of asepsis and antiseptics, use medical instruments, and master the technique of caring for sick children
PC-7	is able and ready to work with medical and technical equipment used in working with patients, to use the capabilities of modern information technologies to solve professional tasks
PC-8	is able and ready to apply modern information on the health indicators of the child population at the level of a medical and prophylactic institution
PC-9	is able and ready to know the basic issues and conduct an examination of working capacity (temporary) and the prophylaxis of disability among children
<i>Prophylactic activity</i>	
PC-10	is able and ready to carry out prophylactic measures to prevent infectious, parasitic and non-infectious diseases in children
PC-11	is able and ready to carry out sanitary and educational work among the population, analyze risk factors, and make recommendations on a healthy lifestyle and nutrition
PC-12	is able and ready to select children for observation, considering the results of tuberculin diagnostics and fluorographic examination, to estimate its results for the purpose of early detection of tuberculosis
PC-13	is able and ready to carry out anti-epidemic measures, protect the population in foci of particularly dangerous infections, in case of deterioration of the radiation situation and natural disasters and other emergency situations
<i>Diagnostic activity</i>	
PC-14	is able and ready to analyze the patterns of functioning of individual organs and systems, use knowledge of anatomical and physiological features, basic methods of

	clinical and instrumental examination and assessment of the functional state of the body of a child and an adult
PC-15	is capable and ready to make a diagnosis based on the results of biochemical and clinical studies, considering pathological changes in individual organs, systems and the body as a whole
PC-16	is able and ready to use the algorithm of diagnosis (basic, concomitant, complications), considering the international classification of diseases, to carry out basic diagnostic measures to identify urgent and life-threatening conditions
<i>Medical activity</i>	
PC-17	is able and ready to perform basic therapeutic measures for the most common diseases and conditions in children
PC-18	is capable and ready to provide medical care to children with acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care
PC-19	he is able and ready to provide first aid to children and adults in case of emergency and life-threatening conditions, to send patients to hospital on a planned and emergency basis
PC-20	is able and ready to provide medical assistance to children and adults in emergency situations, including those requiring medical evacuation
PC-21	capable and ready to manage a physiological pregnancy
<i>Rehabilitation activity</i>	
PC-22	is able and ready to apply rehabilitation measures (medical, social and professional) among the child population in the most common pathological conditions and injuries of the body
PC-23	is able and ready to give recommendations on the choice of regimen, determine indications and contraindications for the assignment of physical therapy, physiotherapy, non-drug therapy, use the main resort factors in the treatment of children
<i>Educational activity</i>	
PC-24	is capable and ready to train secondary and junior medical personnel in the rules of sanitary and hygienic regime, ethical and deontological principles
PC-25	is capable and ready to teach the population basic hygiene measures and educational activities for the formation of healthy lifestyle skills
<i>Organizational and managerial activity</i>	
PC-26	is able and ready to use the regulatory documentation adopted in the healthcare of the Kyrgyz Republic
PC-27	is able and willing to use knowledge of the structure and work of healthcare organizations
PC-28	is able and ready to ensure the rational organization of the work of secondary and junior medical personnel of medical institutions
PC-29	is able and ready to estimate the quality of medical care using basic medical and

	statistical indicators
PC-30	is able and ready to organize medical assistance in emergency situations, including medical evacuation
<i>Scientific research activity</i>	
PC-31	is able and willing to analyze and publicly present medical information based on evidence-based medicine
PC-32	is able and ready to plan and conduct scientific research
PC-33	is able and ready to implement new methods and techniques aimed at protecting public health

CHAPTER 2. DISCIPLINARY OBJECTIVES - CLINICAL CONDITIONS

2.1. Children's diseases	Level
Neonatology	
Organization of newborn service in the maternity hospital and at the 2nd stage of care	2
Boundary states of the newborn period	1
Care and feeding of full-term newborns	1
Care and feeding of premature newborns	1
Premature newborns	1
Intrauterine growth retardation	2
Intrauterine hypoxia and asphyxia of newborns	2
Intracranial hemorrhages	2
Spinal birth traumas	2
Hemolytic disease of newborn children	2
Hemorrhagic disease of newborn children	2
Perinatal infections of newborns (of viral, bacterial and other etiology)	2
Embryo- and fetopathies	2
Respiratory distress syndrome	2
Pneumopathies of newborn children	2
Pneumonias of newborn children	2
Diseases of the skin, subcutaneous fat, umbilical cord and umbilical wound	2
Sepsis of newborn children	2
Endocrinopathies of newborn children	2
Anemic states of newborn children	2
Neonatal jaundice (conjugation, hemolytic, parenchymal)	2
Hypogalactia	1
Damages of the nervous system in newborn children	2
Meconium aspiration syndrome	2
Genodermatoses in newborn children	2
Sepsis in premature children	2
Anemias in premature children	2
Diseases of the musculoskeletal system in newborn children	2
Pocket book of hospital care for children	
Stages of management of sick children: triage of patients with the determination of emergency and priority signs of the disease, anamnesis and examination, differential diagnosis, treatment, follow-up, discharge according to the recommendations of the pocket book	1
Management of emergency conditions in childhood according to the recommendations of the pocket book	2
Diseases of early age children	

Rickets	1
Spasmophilia	2
Hypervitaminosis D	2
Constitutional abnormalities (exudative-catarrhal, lymphatic-hypoplastic, neuro-arthritic diatheses)	1
Acute and chronic disorders of nutrition	2
Iron-deficiency anemia in early age children	1
Respiratory system diseases	
Acute simple bronchitis, obstructive bronchitis and bronchiolitis, recidivating bronchitis)	1
Pneumonias	1
Bronchopulmonary dysplasia	2
Respiratory failure (acute, chronic)	2
Chronic nonspecific lung diseases (bronchiectatic disease)	2
Interstitial lung diseases (idiopathic hemosiderosis of the lungs)	2
Hereditary lung diseases (cystic fibrosis, alpha-1-antitrypsin deficiency, Cartagener syndrome)	2
Children's immunology and allergology	
Primary and secondary immunodeficiencies	2
Localized and systemic allergoses	2
Food allergy	1
Allergic skin diseases	2
Acute allergic urticaria and Quincke's edema	1
Pollinoses, respiratory allergoses	2
Bronchial asthma	2
Insect allergy	2
Immunotherapy	2
Immunoprophylaxis. Vaccination of children with allergic diseases	2
Pseudoallergic reactions	2
Diseases of the blood circulation system	
Acute rheumatic fever	1
Chronic rheumatic heart disease, acquired heart diseases	1
Arterial hypertension	2
Arterial hypotensions	2
Congenital heart diseases	2
Myocarditises	2
Cardiomyopathies	2
Infectious endocarditis	2
Pericarditises in children	2
Cardiac arrhythmias and conduction disorders	2

Acute heart failure	2
Chronic heart failure	2
Mitral valve prolapse	1
Myocardiodystrophies	1
Diseases of the digestive system	
Gastroesophageal reflux disease	2
Gastritises, gastroduodenitises	1
Peptic ulcer of the stomach and duodenum	2
Dyskinesia of the biliary pathways	1
Chronic cholangitis, cholecystitis	2
Chronic pancreatitis	2
Cholelithiasis	2
Malabsorption syndrome (celiac disease, disaccharidase deficiency)	2
Functional disorders of the gastrointestinal tract	2
Nonspecific ulcerative colitis	2
Chronic hepatitis	2
Hepatic cirrhosis	2
Diseases of the urinary system	
Infection of the lower urinary tract	1
Pyelonephritises (acute, chronic)	1
Glomerulonephritis, acute and chronic	2
Nephrotic syndrome	2
Acute kidney injury	2
Chronic kidney disease	2
Congenital diseases of the kidneys and urinary tract (primary and secondary tubulopathies)	2
Hemolytic-uremic syndrome	2
Hereditary diseases of the urinary system	2
Secondary glomerulonephritis (lupus nephritis, Schonlein-Genoch nephritis)	2
Diseases of the hematopoiesis system	
Deficiency anemias (iron-deficiency, protein-, B12- and folate-deficiency)	1
Hemolytic anemias	2
Aplastic anemias	2
Posthemorrhagic anemias	2
Hemorrhagic vasculitis	2
Idiopathic thrombocytopenic purpura	2
Thrombocytopathy	2
Hemophilia	2
Disseminated intravascular coagulation	2
Dysplastic hemorrhagic vasopathies	2

Leukemoid reactions	2
Diseases of joints and connective tissue	
Juvenile rheumatoid arthritis	2
Reactive arthritis in children	2
Juvenile ankylosing spondylitis	2
Osteochondropathies	2
Systemic lupus erythematosus in children	2
Juvenile dermatomyositis	2
Scleroderma in children	2
Systemic vasculitises in children (nonspecific aortoarteritis, Wegener syndrome, nodular polyarteritis, Kawasaki syndrome)	2
Diseases of the endocrine system	
Diabetes mellitus	2
Thyroid diseases: endemic goiter (iodine deficiency conditions), diffuse toxic goiter, hypothyroidism, autoimmune thyroiditis	2
Diseases of the parathyroid glands (hypo- and hyperparathyroidism)	2
Obesity, metabolic syndrome	2
Diseases of the adrenal glands in children (adrenogenital syndrome). Adrenal failure (acute, chronic)	2
Pathology of growth	2
Diseases of the genital glands (hypogonadism in boys and girls, hypogonadism in boys and girls)	2
Diabetes insipidus	2
Pheochromocytoma	2
2.2. Polyclinic pediatrics	
Organization of supervision of a healthy child up to 1 year and older	1
Supervision and estimation of feeding in infants and early age children. Consulting	1
Immunoprophylaxis. Calendar of prophylactic vaccinations (indications, contraindications, side effects after immunization)	1
Preparing children for pre-school institutions and school	1
Integrated management of childhood illnesses	1
Observation of children with the delayed psycho-motor development	2
Organization of monitoring of children with rickets, anemia, constitutional abnormalities, nutritional disorders in outpatient conditions	1
Supervision of a child with intrauterine growth retardation	1
Supervision of children with disabilities	1
Organization of supervision of sick children with chronic bronchopulmonary pathology	2
Organization of supervision of sick children with cardiovascular diseases	2

Organization of observation of sick children with rheumatic pathology	2
Organization of supervision of sick children with kidney diseases	2
Organization of supervision of sick children with diseases of the gastrointestinal tract	2
Supervision of children with hematological diseases	2
Supervision of children with allergic diseases	2
Organization of observation of sick children with endocrine diseases	2
Emergency care at home and in the conditions of the family medicine center	2
Ethical and deontological aspects of a doctor's work in outpatient conditions	1
Sudden death syndrome in children	2
Regurgitation and vomiting syndrome in early age children	2
Vaccination of premature children	1
Supervision of children after surgical interventions	2
Sexual education of schoolchildren	1
Organization of work with children of social risk groups and their families	1
2.3. Children's infectious diseases	
Acute intestinal infections	
Dysentery	1
Salmonellosis	2
Escherichiosis	2
Staphylococcal lesion of the gastrointestinal tract	2
Acute intestinal infections caused by opportunistic enterobacteria (proteosis, Klebsiella, Pseudomonas aeruginosa, yersiniosis)	2
Viral diarrhea (rotaviral infection)	2
Emergency syndromes in acute intestinal infections (dehydration, toxicosis)	2
Pseudotuberculosis in children	2
Acute respiratory infections in children	
Influenza, hyperthermic and convulsive syndromes	1
Parainfluenza, croup syndrome	2
Adenoviral, respiratory-syncytial, rhinoviral infection, obstructive syndrome	2
Enteroviral infection	2
Coronaviral infection in children (COVID-19)	2
Acute viral hepatitis in children	
Viral hepatitis with a fecal-oral transmission mechanism (VHA)	1
Viral hepatitis with parenteral transmission mechanism (VHB, VHC, VHD)	2
Hepatodystrophy in children. Differential diagnosis. Congenital hepatoses (Crigler-Najjar, Rotor, Dubin-Johnson syndrome, etc.)	2
Drip infections	
Measles	2
Rubella	2

Parvoviral infection B-19 in children	2
Scarlet fever	1
Chickenpox	1
Herpetic infections (herpes simplex, herpes zoster, cytomegalovirus infection)	1
Whooping cough	2
Mumps infection	1
Infectious mononucleosis	2
Diphtheria	2
Meningococcal infection	2
Secondary purulent meningitis: pneumococcal, HIB meningitis, staphylococcal, etc.	2
Poliomyelitis	2
Primary and secondary encephalitis	2
Other infections	
HIV infection in children	2
Opportunistic infections in children	2
Helminthiasis (ascariasis, enterobiosis, giardiasis)	1
Post-vaccinal complications in children	2
Chlamydial infection in children.	2
Mycoplasmal infection in children.	2
Hemophilic (Hib) infection in children.	2
Pneumococcal infection in children.	2
2.4. Children's surgical diseases	
Острый живот	
Acute abdomen	2
Peritonitis in newborns and older children	2
Acquired intestinal obstruction	2
Nonspecific ulcerative-necrotic colitis in children	2
Hernia strangulation	2
Gastrointestinal bleeding	2
Purulent diseases, wound infection	
Purulent-inflammatory diseases of soft tissues and bones in children: furuncle, carbuncle, abscess, panaritium, lymphadenitis, necrotic phlegmon of newborns, phlegmon, osteomyelitis	2
Sepsis, staphylo-derma and strepto-derma of newborns	2
Diseases of the chest organs	
Foreign bodies of the respiratory tract in children	2
Tumors and cysts of the mediastinum	2
Diaphragmatic hernias	2

Echinococcosis in children	2
Acute bacterial lung destruction in children	2
Features of the course of bronchiectatic disease in children	2
Benign soft tissue tumors	2
Bone tumors	2
Congenital malformations	
Cysts and fistulas of the neck	2
Malformations of the maxillofacial area in newborns	2
Malformations of the chest and ribs	2
Congenital stenosis of the trachea and bronchi	2
Malformations of the lungs	2
Acute respiratory failure	2
Pathology of the vaginal process of the peritoneum	2
Umbilical hernia	2
Hernia of the white line of the abdomen	2
Congenital intestinal obstruction	2
Hirschsprung's disease	2
Dolichosigma	2
Doubling of the colon	2
Abnormalities of the spleen development	2
Anomalies of the hepatobiliary system	2
Twin malformations	2
Abnormalities of the reproductive system development	2
Anorectal developmental pathologies	2
Congenital malformations of the esophagus	2
Pylorostenosis in newborns	2
Congenital malformations of the hand and foot	2
Congenital abnormalities of the kidneys and urinary system	2
Sacrococcygeal teratomas	2
Diseases of the central nervous system	
Craniocerebral hernias	2
Hydrocephaly	2
Cerebrospinal hernias	2
Craniostenosis	2
Defects of the vascular system	
Malformations of blood vessels	2
Vascular tumors	2
Venous aneurysms in children. Parkes-Weber syndrome	2
Diseases of the urinary system	
Urolithiasis	2

Children's traumatology	
Burns and damages of the esophagus	2
Damage of tubular bones in children	2
Traumas of the chest and abdominal organs	2
Traumas of the spine and pelvic bones	2
Craniocerebral trauma	2
Soft tissue damages	2
Thermal damages, electrical traumas	2
Birth damages	2
Children's orthopedics	
Torticollis	2
Curvatures of the spine	2
Congenital deformity of the chest	2
Congenital dislocation of the hip	2
Osteochondropathies	2
Congenital clubfoot	2
Stenosing ligamentitis	2
Flatfeet	2
2.5. Internal diseases	
Respiratory diseases	
Pneumonias	1
Bronchial asthma	1
Chronic obstructive pulmonary disease	1
Bronchiectatic disease	2
Pleurisies	2
Emphysema of the lungs	2
Pulmonary failure	2
Pulmonary arterial hypertension. Chronic pulmonary heart disease. Alpine climate therapy	2
Disseminated lung diseases. Idiopathic pulmonary fibrosis	2
Obstructive sleep apnea syndrome	2
Tobacco addiction	2
Diseases of the blood circulation organs	
Atherosclerosis and hyperlipidemia	1
Hypertensive disease	1
Symptomatic arterial hypertension	2
Coronary heart disease. Stable stenocardia	1
Acute coronary syndromes. Acute myocardial infarction. Unstable stenocardia	1
Infectious myocarditis	2
Infectious endocarditis	2

Mitral and aortic heart defects	2
Chronic heart failure	1
Rhythm and conduction disorders (arrhythmias and blockages)	2
Cardiomyopathies	2
Pericarditises	2
Diseases of connective tissue	
Systemic lupus erythematosus	2
Rheumatoid arthritis	2
Systemic progressive sclerosis	2
Inflammatory myopathies	2
Osteoarthritis	2
Systemic vasculitises	2
Seronegative spondyloarthritis. Ankylosing spondylitis (Bechterew's disease)	2
Reiter's disease and syndrome	2
Reactive arthritis	2
Gout	2
Medicinal disease	2
Diseases of the gastrointestinal tract organs	
Gastroesophageal reflux disease	2
Chronic gastritises	2
Peptic ulcer of the stomach and duodenum	2
Chronic enterocolitis	2
Dyskinesia of the biliary tract and gallbladder	1
Cholecystitis. Cholangitis	2
Chronic pancreatitis	2
Chronic hepatitis	2
Cirrhosis of the liver	2
Ulcerative colitis	2
Crohn's disease	2
Functional bowel diseases: irritable bowel syndrome, functional constipation	1
Diseases of the operated stomach	2
Заболевания мочевыделительной системы	
Glomerulonephritises	2
Chronic pyelonephritis	1
Nephrotic syndrome	2
Amyloidosis of the kidneys	2
Chronic kidney disease	2
Toxic nephropathy	2
Diseases of the blood system	
Anemias: hemolytic, aplastic, B12-deficiency, anemias of chronic diseases	2

Iron-deficiency anemia	1
Hemorrhagic diatheses	2
Hemoblastoses	2
Erythremia	2
Diseases of the endocrine system	
Obesity	2
Diabetes mellitus	1
Diffuse toxic goiter	2
Endemic goiter	1
2.6. Infectious diseases	
Intestinal infections	
Typhoparathyphoid diseases	2
Food toxicoinfections	1
Botulism	2
Dysentery	1
Protozoal colitises	2
Cholera	2
Helminthiasis (nematodes, trematodes, cestodoses)	1
Viral hepatitis	
Viral hepatitis A	1
Viral hepatitis B	2
Viral hepatitis C	2
Viral hepatitis D	2
Viral hepatitis E	2
Airborne infections	
Acute respiratory viral infections	1
Coronaviral infection	1
Meningococcal infection	2
Blood-borne transmissible infections	
Epidemic typhus (Brill-Zinsser disease)	2
Hemorrhagic fevers	2
Tick-borne encephalitis	2
Tick-borne rickettsiosis (North Asian)	2
Malaria	2
Leishmaniasis	2
Zoonotic infections	
Brucellosis	2
Pseudotuberculosis	2
Leptospirosis	2
Ornithosis	2

Q fever	2
Other infectious diseases	
Anthrax	2
Plaque	2
Rabies	2
Tetanus	2
Erysipelas	2
HIV infection	2
2.7. Obstetrics and gynecology	
Pregnancy diagnostics	1
Physiological childbirth	2
Postnatal period	2
Pelvic presentation	2
Multiple pregnancy	2
Hydramnion, hypamnion	2
Spontaneous abortion (miscarriage)	2
Premature birth	2
Postponed pregnancy	2
Anomalies of labor activity	2
Vomiting of pregnant women	1
Preeclampsia and eclampsia	2
Rh-immunization	2
Fetal hypoxia	2
Placental presentation	2
Premature detachment of a normally located placenta	2
Bleeding in the afterbirth and early postnatal period	2
Anatomical narrow pelvis	2
Clinical narrow pelvis	2
Ruptures of the vulva, vagina and perineum	2
Rupture of the cervix	2
Rupture of the uterus	2
Postnatal endometritis	2
Lactostasis	1
Extensor inserts of the head	2
Transverse position of the fetus	2
Delivery operations	2
Endometritis, salpingoophoritis	1
Infected abortion, out-of-hospital abortion	2
Extrauterine pregnancy	2
Colpitis, vulvovaginitis of nonspecific and specific etiology, features in girls	1

Bartholin gland abscess	2
Purulent tuboovarian formations	2
Ovarian apoplexy	2
Abnormal uterine bleedings. Juvenile bleedings	2
Amenorrhea	2
Premenstrual syndrome	2
Adrenogenital syndrome	2
Polycystic ovary syndrome	2
Infertility	2
Dysmenorrhea	2
Menopausal syndrome	1
Endometriosis	2
Uterine myoma	2
Background diseases of the cervix and vulva	2
Benign cysts, ovarian cystomas	2
Prolapse of the genital organs	2
Disorders of sexual development	2
Malformations of the genital organs (uterus, vagina)	2
Cervical canal atresia	2
Synechiae of the uterine cavity	2
Traumatic damages to the genitals	2
Family planning, contraception	1
2.8. Surgical diseases	
Acute appendicitis	2
Abdominal hernias (external and internal)	2
Complicated forms of gastric ulcer and duodenal ulcer	2
Acute cholecystitis. Cholelithiasis	2
Acute pancreatitis	2
Acute intestinal obstruction	2
Peritonitis	2
Purulent-inflammatory diseases of the thyroid gland, goiter, surgical diseases of the adrenal glands	2
Diseases of the esophagus (post-burn strictures of the esophagus, foreign bodies, achalasia of the cardia, gastroesophageal reflux disease, diverticula)	2
Pulmonary abscesses, gangrene, pleuritis	2
Parasitic diseases of the liver and lungs (echinococcosis, alveococcosis)	2
Surgical diseases of the spleen (cysts, abscesses, torsion, thrombophlebitis of the splenic veins)	2
Surgical diseases of the mammary gland (mastitis, mastopathy)	2
Surgical diseases of the colon (nonspecific ulcerative colitis, Hirschsprung's	2

disease, diverticulosis)	
Diseases of the rectum (hemorrhoids, paraproctitis, rectal prolapse, anal fissure)	2
Atherosclerosis of blood vessels, obliterating endarteritis	2
Varicose veins of the lower extremities, thrombophlebitis, phlebitis	2
Diabetic angiopathy of the lower extremities	2
Acute arterial obstruction, embolism	2
Pulmonary artery thromboembolism	2
Thrombosis of mesenteric vessels, vessels of extremities	2
2.9. Nervous diseases	
Main cerebral damages in children under 1 year old	
Hypoxic encephalopathy	1
Traumatic encephalopathy	1
Toxic-metabolic encephalopathy	1
Infectious encephalopathy	2
Outcomes of encephalopathies	
Psychomotor development retardation	1
Cerebral palsy	1
Pathologies of the nervous system development	
Hydrocephaly	2
Epilepsy, convulsive states	2
Craniovertebral abnormalities	2
Craniocerebral and cerebrospinal hernias	2
Syringomyelia	2
Inflammatory diseases of the nervous system	
Secondary viral meningitises	2
Post-vaccinal encephalitises	2
Leukoencephalitises	2
Rheumatic encephalitis	2
Traumas of the nervous system	
Craniocerebral trauma	2
Cerebrospinal trauma	2
Volumetric processes of the central nervous system	
Cerebral and spinal tumors	2
Cerebral cysts (parasitic, traumatic, congenital)	2
Diseases of the peripheral nervous system	
Polyneuropathies	2
Guillain-Barre polyneuropathy	2
Natal plexopathies	2
Myasthenia and myasthenic syndromes	2
Pathologies of the vegetative nervous system	

Vegetative dysfunctions and crises	1
Hypothalamic syndrome	2
Hereditary diseases	
Down's syndrome	2
Phenylketonuria	2
Myodystrophy	2
Spinal amyotrophies	2
2.10. Diseases of the ear, throat, nose	
Rhinitis	1
Adenoids	2
Sinusitis	2
Pharyngitis, laryngitis, tracheitis	1
Angina, chronic tonsillitis	1
Polyposis of the upper respiratory tract	2
External otitis, otitis media	2
Foreign body of the external acoustic passage, nasal cavity	2
Sulfur plug	1
Deafness	2
Laryngeal edema, false croup	2
Nasal bleeding	2
2.11. Skin and venereal diseases	
Dermatitises	2
Toxicoderma	2
Eczema	2
Prurigo	2
Neurodermatoses	2
Psoriasis	2
Seborrhea	2
Vulgar acne	2
Scleroderma (skin manifestations)	2
Warts, contagious mollusk	2
Pyoderma	2
Scabies	2
Pediculosis	2
Skin mycoses	2
Syphilis	2
Gonorrhea	2
Trichomoniasis	2
Urogenital chlamydia	2

2.12. Mental and behavioral disorders	
Organic mental disorders:	
Organic asthenic disorder	2
Delirium	2
Dementia	2
Acute and chronic psychotic disorders:	
Schizophrenia	2
Acute and transient psychotic disorders	2
Affective mood disorders	
Depressive disorders	2
Суицидальное поведение	2
Dysthymia	2
Neurotic disorders in children	
Anxiety-phobic disorders	2
Panic disorder	2
Obsessive-compulsive disorder	2
Anxiety-depressive disorder	2
Stress-related disorders:	
Acute stress reaction	2
Post-traumatic stress disorder	2
Adaptation disorder	2
Anorexia nervosa and bulimia nervosa	2
Mental retardation	2
Disorders of psychological development in children:	
Specific speech development disorders	2
Specific disorders of school skills development	2
General developmental disorders	2
Behavioral disorders in children and adolescents:	
Hyperkinetic disorder with attention deficit	2
Oppositional-defiant behavior	2
Socialized and unsocialized behavior disorders	2
Sibling rivalry disorder	2
Mental and behavioral disorders due to the use of psychoactive substances:	
Acute intoxication from psychoactive substances	2
Dependence on psychoactive substances	2
2.13. Phthisiatry	
Tuberculosis prophylaxis (immunoprophylaxis, chemoprophylaxis)	2
Latent tuberculous infection	1
Pulmonary tuberculosis (all clinical forms)	1

Extrapulmonary tuberculosis	1
Tuberculosis in special cases (in combination with HIV infection, etc.)	2
2.14. Eye diseases	
Conjunctivitis	1
Dacryoadenitis, dacryocystitis	1
Hordeolum	1
Congenital glaucoma	2
Myopia	2
Cataract	2
2.15. Oncology	
Acute and chronic leucoses	2
Hodgkin's disease	2
Non-Hodgkin's lymphomas	2
Histiocytoses	2
Nephroblastoma	2
Neuroblastoma	2
Hepatoblastoma	2
Tumors of the genital organs in children	2
Teratoblastoma	2
Malignant tumors of bones and soft tissues	2
Retinoblastoma	2
Thyroid cancer	2
2.16. Children's stomatology	
Dental caries	2
Periodontal diseases	2
Diseases of the oral mucosa in children	2
Injuries of the oral mucosa in children	2
Inflammatory diseases of the maxillofacial area in children	2
Congenital malformations of the maxillofacial area in children	2
Traumatic damages to the maxillofacial region in children	2
2.17. Children's anesthesiology and resuscitation	
Terminal states and clinical death	2
Intensive therapy at hyperthermic, convulsive syndromes, cerebral edema	2
Intensive therapy at acute respiratory failure	2
General principles of anesthesia in children	2
Blood transfusion	2
Comas	2
Intensive therapy of acute blood circulation disorders	2

Shock in children	2
Poisonings in children	2
2.18. EMERGENCY CONDITIONS	
Emergency conditions at various clinical conditions	
Shock (anaphylactic, septic, traumatic, hemorrhagic, cardiogenic, etc.)	2
Collapse	2
Coma (anemic, hypoglycemic, ketoacidotic, hyperosmolar, lactic acidotic, primary cerebral, cerebral, hepatic, of unclear etiology, hypothyroid, etc.)	2
Thyrotoxic crisis	2
Hyperparathyroid crisis	2
Acute adrenal insufficiency. Addisonian crisis	2
Acute respiratory failure	2
Laryngeal edema, false croup	2
Attack of bronchial asthma	1
Quincke's edema	1
Pulmonary artery thromboembolism	2
Acute heart failure	2
Primary blood circulation arrest	1
Pulmonary edema	2
Acute myocardial infarction	2
Unstable stenocardia	2
Hypertensive crisis of type 1	2
Hypertensive crisis of type 2	1
Cardiac arrhythmias and conduction disorders (paroxysm of atrial fibrillation and flutter, paroxysm of supraventricular and ventricular paroxysmal tachycardia, complete atrioventricular blockade)	2
Bleeding (gastrointestinal, nasal, uterine, pulmonary, post-traumatic, etc.)	2
DIC syndrome	2
Acute abdomen	2
Dehydration <ul style="list-style-type: none"> • mild, moderate • severe 	1 2
Renal colic	2
Hematuria and excretory anuria	2
Phimosis, paraphimosis	2
Acute kidney disease	2
Acute liver failure	2
Concussion, bruising, compression of the brain	2
Cerebral stroke	2
Transient ischemic attack	2
Cerebral edema	2
Preeclampsia, eclampsia	2
Convulsive states	1
Myasthenic and cholinergic crises	2
Akinetic crisis	2
Spinal traumas	2
Epileptic status	2
Psychomotor agitation	2
Suicidal behavior	2

Acute stress reaction	2
Delirium	2
Abstinent syndrome	2
Panic attack	1
Acute attack of glaucoma	2
Chemical and thermal burns, frostbite	2
Damage by electric current, lightning, heat and sunstroke	2
Poisonings	2
Drowning, suffocation	2
Bone fractures, dislocation	2
Wounds	2
Bruises, sprains	2
Sepsis	2
Dehydration in children, a salt-losing form of adrenogenital syndrome	2
Asphyxia of newborns	2
Obstructive syndrome in children	1
Acute respiratory failure in children	2
Dyspnea-cyanotic attacks in children	2
Hemolytic crisis, hyperbilirubinemia at hemolytic disease of newborns	2
Hyperthermia in children	1
Hemotransfusion reactions and complications	2
Priapism	2
Acute urinary retention	2

CHAPTER 3. MEDICAL MANIPULATIONS

Kinds of manipulations	Level
3.1. General manipulations	
3.1.1. Anamnesis collection	
Collection of basic and additional complaints	1
Purposeful collection of anamnesis of the disease from parents accompanying the child (asking about the history of the disease): the beginning of the disease, the time of appearance and dynamics of symptoms; the ability to build a history of the disease in chronological order from the first symptoms to the moment of going to the doctor; the reason for going to the doctor, treatment before treatment.	1
Life anamnesis collection (including the course of pregnancy with this child, childbirth, development in the first year of life, breastfeeding, prophylactic vaccinations, previous illnesses), family anamnesis (compilation of a family tree)	1
Collection of an allergological anamnesis	1
Collection of an epidemiological anamnesis	1
Understanding and responding to non-verbal signs	2
Collecting a psychiatric anamnesis	2
Collecting a narcotic anamnesis	2
Identification of risk factors (constitutional abnormalities, hypodynamia, nutritional errors, hygiene habits, etc.)	1

3.1.2. Physical examination	
Estimation of the general condition of the patient (appearance, activity, position, nutrition, consciousness, mental state)	1
Estimation of vital functions of the body (body temperature, respiratory rate and type, pulse rate, arterial and venous blood pressure)	1
Estimation of patients with emergency conditions	1
Documenting anthropometric data (body height, body weight, circumferences of head, waist, hips)	1
Examination of the skin and mucous membranes (signs of anemia, cyanosis, jaundice, edema, dehydration, rash)	1
Estimation of attention, thinking (form and content), perception, emotional and psychomotor development	1
Examination of peripheral and central arterial pulsation, detection of arterial murmur	1
Examination of lymph nodes	1
Detailed description of the skin damage	1
Description of nails, scalp, visible mucous membranes	1
Definition of dermatographism	1
Description of eye lids and eyelashes	1
Description of the upper eyelid with an inverted eyelid	1
Description of the width of the eye slit	1
Description of the conjunctiva, including fornix	1
Description of the sclera and cornea	1
Determination of corneal sensitivity to touch	1
Description of the pupil, reaction to light and convergence	2
Description of the iris	2
Definition and description of nystagmus	2
Description of eye position and movement (corneal reflex)	2
Description of the optical disc and retinal vessels	2
Examination and palpation of the auricle and the surrounding area (mastoid area)	1
Examination and palpation of the nose and face	1
Estimation of nasal obstruction and anterior rhinoscopy	1
Examination of the lips, oral area, oropharynx, as well as teeth, tongue, tongue root, pharyngeal arches, tonsils, examination of the excretory ducts of the parotid glands and submandibular glands	1
Palpation of the bottom of the mouth, cheeks, tonsils and tongue root	1
Examination and palpation of the parotid glands and submandibular glands	1
Estimation of voice and speech, detection of aphasia	1
External examination and palpation of the larynx	1
Examination, palpation and auscultation of the structures of the neck, thyroid,	1

carotid arteries and lymph nodes	
Palpation of the head and cervical spine, examination of mobility, tenderness and stiffness of the cervical spine	1
Examination of the form and mobility of the chest, examination of tenderness during pressure and/or percussion	1
Examination of bones, joints, and muscles of the shoulder girdle	1
Determination of the size of the chest excursion – examination, palpation, measurement of the chest circumference	1
Palpatory detection of vocal tremor	1
Percussion of the lungs, determination of the excursion of the lower edge of the lungs	1
Auscultation of the lungs	1
Determination of the apical impulse (of heart)	1
Defining the cardiac dullness borders	1
Auscultation of the heart	1
Determination of peripheral vascular pulsation, pulse characteristics	1
Examination and palpation of mammary glands, including regional lymph nodes	1
Examination of the abdomen	1
Auscultation of the abdominal cavity (intestinal noises)	1
Percussion of the abdomen (determining the size of the liver, spleen)	1
Palpation of the abdomen (abdominal wall, intestines, liver, spleen, abdominal aorta, kidneys, pancreas)	1
Detection of abdominal tenderness, symptom of peritoneal irritation, muscle protection	1
Definition of "splash noise"	1
Determination of tenderness in the kidney area	1
Examination of inguinal hernia by examination and palpation of hernial orifice	2
External examination and palpation of the perianal area	1
Rectal examination in boys (anus, rectum, prostate, sacral spine)	2
Examination and palpation of the penis and scrotum (testicles, appendages of the testicle, spermatic cord)	1
Examination and palpation of female external genitalia (vulva, perineum)	1
Examination of the spine, spinal mobility, paravertebral muscles, standing and lying on the back (kyphosis, scoliosis, Schober test)	1
Palpation, percussion, determination of spinal tenderness	1
Examination of ileosacral joints and pelvis (determination of mobility, tenderness, atrophy)	1
Examination of the form, function, mobility and tenderness of the upper extremities (wrist and elbow joints, finger joints, etc.)	1
Examination of the form, function, mobility and tenderness of the lower extremities (ankle and knee joints, position, function, and relief of patellar)	1

Examination of the axis of the lower extremities (valgus and varus deformity of the knee joints)	2
Examination of the foot axis (hallux valgus and varus deformity of the feet)	1
Examination of the capillary pulse	1
Varicose vein examination, Trendelenburg test, Perthes test	2
Estimation of children's neuropsychic development	1
Determination of tendon reflexes (triceps, biceps, knee, elbow) and plantar reflex	2
Examination of cranial nerve function	2
Examination of passive muscle movements, examination of muscle mass, examination of muscle tone, muscle strength, involuntary movements, determination of contracture, atrophy	1
Definition of compound reflexes: abdominal, anal, mandibular, lip, grasp	2
Gait inspection (normal gait, on socks, with a limp on one side)	2
Coordination examination (finger to nose, heel to shin, heel to toe, diadochokinesis)	1
The Romberg, Unterberger test	1
Examination of tactile and pain sensitivity	1
Examination of temperature, vibration and positional sensitivity	1
Discriminatory sensitivity (stereognosia)	2
Definition of meningeal symptoms	1
Examination of radicular cervical and lumbar symptoms	2
Estimation of the degree of consciousness disturbance	2
Examination of orientation in space and time	1
Memory examination	1
Examination (forensic expertise) of a patient under the influence of alcohol or a psychotic substance	2
Clinical diagnosis of death	2
Estimation of the time of death (cadaveric spots, rigor mortis, rectal temperature)	2
3.1.3. General skills	
Bimanual examination: palpation of the vagina, cervix, uterus, ovaries (on a moulage)	2
Rectal examination in women: anus, rectum, palpation of the Douglas space, uterus (on a moulage)	2
Examination of a pregnant woman's abdomen	2
All types of injections, including intravenous drip infusion of liquids	1
Interpretation of the results of intradermal diagnostic (Mantoux test) and allergological tests	2
Determination of the suitability of blood for transfusion, blood transfusion (direct transfusion of donor blood, single and repeated replacement blood transfusion), administration of serums	2

Determination of blood type and Rh factor by express method, determination of individual and biological compatibility of blood	2
Drip and jet transfusion of drugs and blood substitutes	2
Carrying out and interpreting the ECG	1
Interpretation of the results of the X-ray examination	1
Carrying out and interpreting of peakflowmetry	2
Interpretation of spirometry results	2
Interpretation of the complete blood count	1
Interpretation of the results of biochemical analyses	1
Urine collection techniques for laboratory analyses in children of all age groups and adults (diuresis measurement, general urine analysis, Nechiporenko, Addis-Kakovsky, Zimnitsky tests) and their interpretation	1
Interpretation of the coprogram	1
Taking feces for coprological and bacterial examination in children	1
Obtaining smears, material for cytological, bacteriological examination (from the pharynx, nose, urethra, vagina, umbilical wound)	1
Catheterization of the urinary bladder, suprapubic puncture	2
Gastric and intestinal lavage	2
Gastric intubation, duodenal intubation in children	2
Nasogastric tube placement	2
Finger examination of the rectum and prostate gland	2
Therapeutic and hygienic baths	1
Treatment of the oral mucosa in children	1
Measuring temperature in children	1
Anthropometric measurements in children	1
Counting pulse and respiratory rate in children, adults	1
Cardiovascular tests (Shalkov's test)	1
Blood pressure measurement in children, in adults	1
Massage and gymnastics for newborns and infants	2
Estimation of stool in infants	1
Cleansing enema in children	2
Instilling drugs into the eyes, nose, and ears of children and adults	1
Applying a bandage to the eyes	1
Applying eye ointment	1
Ear washing	2
Using proper hand washing techniques in the workplace	1
Preoperative preparation of the surgical field for minor surgical interventions, asepsis and antiseptics	1
Preparation for surgery (washing hands before surgery, putting on a sterile operating uniform, putting on sterile gloves)	1

Removal of surgical sutures	1
Venipuncture	1
Using and explaining to the patient the technique of using a metered-dose inhaler, spacer and nebulizer	1
3.1.4. Information management	
Formulation of a clinical question and search of its solution in the literature	1
Informing parents, relatives of the patient, colleagues and other health workers about the results of the examination	1
Reporting negative information to the patient's parents and relatives	2
Informing parents to obtain informed consent	1
Documenting the results of the examination in the patient's medical history/outpatient card	1
Writing a discharge and transfer epicrisis	1
Consulting of the patient's parents and the patient in matters related to lifestyle (nutrition, physical activity, smoking, alcohol and narcotic substances consumption)	1
Filling out a medical recipe	1
Filling out a death certificate (posthumous epicrisis)	2
The designation of the disease by a code in accordance with the current international classification of diseases	1
Work in accordance with current national protocols/guidelines	2
Assessment of health indicators of the population	1
3.2. Manipulations in neonatology	
Estimation of the functional and neurological status of a full-term and premature newborn child	2
Proper application of the child to the breast	1
Breastfeeding counselling	1
Feeding of severe and premature newborns through a tube	2
Estimation of the newborn's condition on the Apgar scale and the Ballard scale	2
Carrying out the toilet of the skin, eyes, nose, ears in newborn children	1
Taking care of the umbilical cord residue	1
Prophylaxis of neonatal gonoblenorrhoea	1
Carrying out weighing and thermometry of a newborn	1
Estimation of the degree of respiratory distress in a newborn child on the Downs scale	2
Carrying out a replacement blood transfusion operation in case of hemolytic conflict between mother and child	2
Selection of a catheter and determination of the depth of insertion into the umbilical vein	2
ABCD–resuscitation at asphyxia of newborns	2

Cleansing of the upper respiratory tract in newborns	2
Selection of face masks for newborns	1
3.3. Manipulations used in surgery, children's surgery	
Biopsy of tumors and lymph nodes	2
Carrying out diagnostic and therapeutic punctures, paracentesis, laparocentesis, thoracocentesis	2
Probing of cavities, fistulas	2
Carrying out infiltrative local anesthesia, conduction, regional, vagosympathetic blockades	2
Primary surgical treatment of wounds, removal of sutures	1
Methods of final stopping of bleeding	2
Suturing the skin (on a moulage)	1
First aid at accidental, primary infected wounds	1
Treatment of burn surfaces, infected wounds	1
Carrying out simple wound bandages, making and washing drains, passive drainage and establishing active aspiration	2
Bandages, application of soft bandages, splints	1
Transport and therapeutic immobilization for fractures of the bones of the extremities, spine	2
Removal of superficially located foreign bodies	2
Removal of superficially located soft tissue tumors	2
Diagnostics of clean, contaminated and purulent wounds	1
Diagnostics of inflammatory infiltrate, abscess, phlegmon, panaritis, lymphadenitis, thrombophlebitis	1
Determination of the symptom of fluctuation at purulent diseases	2
Lancing of abscesses, panaritium, phlegmon	2
Ingrown nail removal	2
Puncture cystostomy	2
Diagnosing dry and moist gangrene	1
Diagnostics of bedsores and the ability to prevent them	1
Desmurgy	1
The imposition of skeletal traction	2
Carrying out bone repositions	2
Lumbar puncture	2
Dislocation reduction	2
Diathermocoagulation	2
Sternal puncture, trepanobiopsy of the iliac wing	2
Estimation of indications and contraindications to surgical intervention	2
Examination of inguinal hernia by examination and palpation of hernial orifice	2
External examination and palpation of the perianal area	1

Examination and palpation of the penis and scrotum (testicles, appendages of the testicle, spermatic cord)	1
Preoperative preparation of the surgical field for minor surgical interventions	1
Preparation for surgery (washing hands, putting on an operating uniform, putting on sterile gloves)	1
3.4. Otorhinolaryngological manipulations	
Anterior and posterior rhinoscopy	1
Pharyngoscopy	1
Laryngoscopy	2
Stopping nasal bleeding: nasal anterior tamponade, nasal posterior tamponade	2
Puncture of the maxillary sinus	2
Paracentesis of the drum membrane	2
Probing and washing of tonsillar lacunae	2
Lancing of a paratonsillar abscess	2
Administration of drugs into the larynx and bronchi with a laryngeal syringe and through a nasal catheter	2
Audiometry	2
Examination of the external acoustic canal and drum membrane using an otoscope	1
Determination of the patency of the auditory tube	2
The study of hearing by whispered speech, spoken speech, tuning fork	1
Nasal cavity care skills	1
4.5. Ophthalmological manipulations	
Applying an eye bandage	1
Instillation of eye drops	1
Laying eye ointments in the conjunctival cavity	2
Ointment lubrication of the affected area of the skin around the eyes	2
Visometry	2
Perimetry	2
External examination of the eyeball and appendages using side lighting	2
3.6. Manipulations used in children's infection	
Collection of an epidemiological anamnesis	1
Examination of the pharynx and collection of material from the pharynx and nasopharynx for laboratory studies	2
Collection of vomit for laboratory testing	1
Fecal sampling for coprological and bacteriological analyses and studies on worm eggs	1
Indications and technique of lumbar puncture (on a moulage)	2

Cleansing enema	2
Determination of oxygen saturation (pulse oximetry)	1
Feed-through-the-probe technique	2
Definition of meningeal symptoms	1
Oral rehydration in children with dehydration syndrome	1
Infusion rehydration in children with dehydration syndrome	2
First aid at hypovolemic and septic shock	2
Restoration of airway patency	1
Aerosol inhalation technique using spacers, nebulizers at upper and lower airway obstruction	1
Medical aid at hyperthermic syndrome	1
Medical aid at convulsive syndrome	1
3.7. Manipulations used in dermatovenerology	
Carrying out phenomena at psoriasis	2
Carrying out a Yadasson test at During's herpetiform dermatitis	2
Identification of symptoms at scabies (Gorchakov-Ardi, Cesari)	1
Identification of the "honeycomb" symptom	2
Definition of dermographism	1
Examination under Wood's lamp	2
Taking pathological material to identify scabies mite, pathogenic fungi	2
Carrying out a diascopy	2
3.8. Skills and manipulations used in psychiatry	
Establishing contact with a child	2
Establishing contact with the child's family	2
Estimation of speech skills	2
Estimation of gaming activity	2
Estimation of behavior in the department	2
Estimation of the relationship between the child and relatives	2
Motor skills study	2
Reading ability study	2
Writing ability study	2
Counting ability study	2
A child's horizons study	2
Speech skills study	2
Communication skills study	2
Gaming activity study	2
Determining the level of school knowledge	2
The attention concentration study	2
Intelligence study	1

Thinking study	1
The emotional sphere study	1
Memory study	1
Counseling on the child's mental development	1
Counseling a family on child upbringing issues	1
Counseling the family on the issues of the child's education	2
3.9. Manipulations used in obstetrics and gynecology	
Mammary gland examination and self-examination training for women	2
Examination of the vagina and cervix in mirrors	2
Taking a smear for urogenital infection and cytological examination	1
Bimanual vaginal, rectal and rectovaginal examinations	1
Probing of the uterine cavity (on a moulage)	1
Puncture of the abdominal cavity through the posterior vaginal vault (on a moulage)	2
Diagnostics of early and late pregnancy	2
External obstetric examination	2
Measuring the sizes of the pelvis	2
Auscultation of fetal heart tones	2
Management of physiological childbirth	2
Estimation of the afterbirth	2
Estimation of a newborn on the Apgar scale	2
Breast-feeding counseling	1
Family planning counseling	1
3.10. Manipulations for emergency care	
Basic cardiopulmonary resuscitation of children	2
Administration of diazepam rectally	2
Intravenous fluid infusions to a child in shock	2
Defibrillation (on a moulage)	1
Tracheal intubation	2
Examination and first aid at external traumas (wounds, bleeding, burns, sprains, dislocations, fractures)	2
Methods of cleaning the upper respiratory tract, aspiration of mucus from the upper respiratory tract	1
Indirect heart massage	1
Stopping bleeding (compression, applying a tight bandage, applying a tourniquet)	2
Estimation of fetal heartbeat during pregnancy	2
First aid at gastrointestinal bleeding	2
Primary resuscitation of a newborn	2
Clamping of the umbilical cord / separation of the placenta from the child	2
Oxygen supply through a nasal catheter or cannulas	1

Airway patency support in a child with obstructive respiratory disorders	1
Connecting an oxygen concentrator	2
Use of a children's oxygen tent	2
Heimlich manoeuvre	1
Cardiopulmonary resuscitation - indirect heart massage, mouth-to-mouth artificial respiration, mouth-to-nose (on a moulage)	1
Cardiopulmonary resuscitation (basic, on a moulage)	2
Transportation of a patient with a trauma	2
Tracheo- or conicotomy, tracheostomy	2