«Оңтүстік Қазақстан
медицина академиясы» АҚ

АО «Южно-Казахстанская
медицинская академия»

Approved
Rector of SKMA JSC
M.Rysbekov
«08» 2019

EDUCATIONAL PROGRAM

Code of the EP: 6B10102

Title of the educational program: Pediatrics

Educational program level: internship

Shymkent, 2019

The educational program was developed by the members of the "**Pediatrics**" Committee of Educational Programs

Chairman of the "Pediatrics" CEP_____Kemelbekov K.S.

The educational program has been agreed:

Head of the educational and methodological Center_____ Ybragimova A.G.

Dean of the Faculty of "Medicine" _____Doltayeva B.Z.

Head of the registry office _____ Syzdykova S.A.

Coordinated with employers:

Head of the City Children's Hospital _____ Zhumadilova D.A.

Agreed by the Methodological Council

Vice-Rector for EMW _____ Anartayeva M.U.

Minutes No 15 of 26 06 2019.

General information

General information

№	Field name	Note
1	Registration number	
2	Code and classification of the field of education	6B10 Health and social welfare (medicine)
3	Code and classification of training areas	6B101 Healthcare
4	Group of educational programs	Pediatrics
5	Code, Name of the educational program	6B10102 "Pediatrics"
6	Type of the EP	New OP
7	The purpose of the EP	The formation of students' supra-professional and professional competencies, the disclosure of creative potential and the possibility of self-realization of each individual.;
8	ISCED level	6
9	The level of the NRK	6
10	ORC Level	6
11	Distinctive features of the OP	No
	Partner University (SOP)	-
	Partner University (DDOP)	-
12	List of competencies	*KC1*- Synthesis of professional and scientific medical knowledge for the provision of skilled medical care *KC2*-Solving the problems of providing qualified medical care *KC3*-Coordination of activities of units in health care organizations *KC4*-Scientific substantiation purposes, methods and means of achieving them *KC5*-Implementation of qualified medical care basic category of complexity *KC6*-Definition of the strategy of providing qualified medical care of the second category of complexity *KC7* - make decisions and take responsibility for the result of the provision of qualified medical care
13	Learning outcomes	LO 1. Demonstrates knowledge and understanding of biomedical sciences for diagnostics, treatment, dynamic observation with the most common

		diseases in children.. LO 2. On the basis of evidence-based medicine on an outpatient basis, it conducts reception, diagnosis, treatment and dynamic observation of the child population LO 3. Performs dynamic monitoring of healthy and sick newborns in preventive institutions of a pediatric profile, carries out the necessary diagnostic and therapeutic and preventive measures. LO 4. Provides emergency qualified medical care for all age categories of patients.. LO 5. Determines the indications for hospitalization of sick children, in an emergency or planned manner.. LO 6. Implements and controls vaccine prevention, examination of children and adolescents, rehabilitation programs. LO 7. Communicates effectively (communicates information, ideas and conclusions, problems and their solutions) in medical practice with specialists and the public, observing the principles of medical ethics, deontology and legal norms.. LO 8. Complies with the principles of organization and management in the field of children's health protection in medical organizations and their structural divisions. LO 9. Owns information technology, efficiently uses health information to introduce new approaches as part of its qualifications. LO 10. Applies scientific principles, methods and knowledge in medical practice and research. Capable of continuous self-education and development.
14	The form of education	Full-time
15	The language of instruction	Kazakh, Russian and English
16	The duration of the training	2 years
17	Volume of loans	120
18	Academic degree awarded, qualification	doctor
19	Availability of an appendix to the license for the direction of training	
	Availability of OP accreditation	there is
	The term Accreditation Actions	*years*
20	Information about the disciplines	Appendix 1.2

Appendix 1.1

The matrix of correlation of learning outcomes according to the educational program as a whole with the competencies being formed

LO CC	**LO 1**	**LO 2**	**LO 3**	**LO 4**	**LO 5**	**LO 6**	**LO 7**	**LO 8**	**LO 9**	**LO 10**
CC **1**	+	+	+	+	+	+	+	+	+	+
CC **2**	+	+	+	+	+		+		+	
CC **3**					+	+			+	+
CC **4**	+	+	+					+	+	
CC **5**	+	+	+	+	+	+	+		+	
CC **6**					+	+	+	+	+	
CC **7**	+	+	+	+	+	+	+		+	+

Learning outcomes

LO 1. Demonstrates knowledge and understanding of biomedical sciences for diagnostics, treatment, dynamic observation with the most common diseases in children..
LO 2. On the basis of evidence-based medicine on an outpatient basis, it conducts reception, diagnosis, treatment and dynamic observation of the child population
LO 3. Performs dynamic monitoring of healthy and sick newborns in preventive institutions of a pediatric profile, carries out the necessary diagnostic and therapeutic and preventive measures.
LO 4. Provides emergency qualified medical care for all age categories of patients..
LO 5. Determines the indications for hospitalization of sick children, in an emergency or planned manner..
LO 6. Implements and controls vaccine prevention, examination of children and adolescents, rehabilitation programs.
LO 7. Communicates effectively (communicates information, ideas and conclusions, problems and their solutions) in medical practice with specialists and the public, observing the principles of medical ethics, deontology and legal norms..
LO 8. Complies with the principles of organization and management in the field of children's health protection in medical organizations and their structural divisions.
LO 9. Owns information technology, efficiently uses health information to introduce new approaches as part of its qualifications.
LO 10. Applies scientific principles, methods and knowledge in medical practice and research. Capable of continuous self-education and development.

Appendix 1.2

Matrix of achievability of competencies/learning outcomes

№	Name of the discipline	Brief description of the discipline	Cycle	Component	Loans	LO EP
1.	Psychiatria in general medical practice	Diseases of the mental sphere. Distribution and social significance. Teaching psychiatry and narcology is important in the training of a modern doctor, since in their activities the student will have to solve diagnostic, therapeutic and organizational issues of managing mental and oncological patients.,	PD	OC	4	LO1 LO2 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10
2.	Pediatric neurology in general medical practice	Differential diagnosis and emergency neurological care for children with acute cerebral and spinal circulatory disorders, acute inflammatory demyelinating polyneuropathy, myasthenic crisis, epileptic status, neuropathy of the facial, radial, median, ulnar, femoral, tibial, fibular nerves, trigeminal neuralgia.	PD	OC	5	LO1 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10
3.	Pediatric phthisiology in general medical practice	Formation of skills and abilities to work on algorithms for early and differential diagnosis, tactics of treatment and prevention and management of tuberculosis patients based on modern methods and scientific data, first aid in emergency situations in children and adolescents, specific and nonspecific prophylaxis in outpatient settings, conducting medical examinations of children in polyclinics; evaluating the effectiveness of child management from the standpoint of evidence-based medicine. Working with documentation in the information system. Communication skills, ethics and deontology. The acquired knowledge will allow the pediatrician in his professional activity to carry out a set of measures aimed at preserving and improving the health of children and adolescents by ensuring the proper quality of medical care.	PD	OC	5	LO1 LO2 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10
4.	Children's infectious diseases in general	Organization of assistance to children with infectious diseases in primary health care. Tactics of management of children with infectious pathology at outpatient levels in accordance with	PD	OC	5	LO6 LO7 LO8 LO9

	medical practice	the principles of evidence-based medicine: diagnosis, differential diagnosis, appointment of laboratory instrumental examination, determination of indications for hospitalization, treatment, criteria for discharge and hospital. Follow-up. Prevention (non-specific and specific). WHO program "Integrated management of childhood diseases"				
5.	Emergency services in pediatrics	Formation of knowledge of the organizational foundations of providing assistance to children in critical and terminal conditions, skills and abilities for diagnosing critical conditions in children, conducting post-syndrome therapy for children in urgent and critical conditions; conducting emergency care in critical conditions, possession of techniques for the operation of medical and monitoring equipment; forced ventilation, tracheal intubation, methods of local and regional anesthesia; modern methods of complex cardiovascular and cerebral resuscitation. The acquired knowledge will allow the pediatrician in medical activities to provide full medical care, including in critical conditions, to carry out preventive and rehabilitative measures to preserve life and health at all age periods of children's lives and successfully solve their professional tasks	PD	OC	10	LO4 LO5 LO6 LO7 LO8 LO9 LO10
6.	Integrated treatment of childhood diseases (ITCD)	Introduction to the Integrated treatment of childhood diseases (ITCD). Integrated management of childhood diseases: the process of managing patients. Measures to reduce child mortality up to 5 years.Management of sick children with cough and difficulty breathing, diarrhea, fever, sore throat, malnutrition and anemia on an outpatient basis.Problems of newborns and infants at the PHC level.	PD	OC	5	LO1 LO2 LO3
7.	Clinical pharmacology	The clinical pharmacology clinic, on the justification and conduct of effective therapy using evidence-based medicine data, is aimed at forming and consolidating knowledge on pharmacological thinking, the proper use of clinical protocol based on individual drug selection and their dosages to increase the effectiveness and safety of pharmacotherapy, taking into account the pathological and physiological profile of the patient	PD	OC	5	LO5 LO8
8.	Surgical diseases in general medical practice	Diagnosis, differential diagnosis and treatment tactics: acute surgical pathology, purulent diseases of soft tissues and hands, kidney and urinary tract diseases, Otorhinolaryngology, eye injuries and diseases, vascular diseases, diseases of the rectum. Types of surgical sutures.	PD	OC	5	LO1 LO4 LO6 LO7

9.	Oncology in general medical practice	The State and national program of maternal and child health protection. A universal progressive model of patronage care for pregnant women and young children at the PHC level. Early diagnosis, differential diagnosis, management tactics, treatment, prevention, follow-up and rehabilitation for the most common diseases among adults and children in outpatient and inpatient settings. Diagnosis, differential diagnosis and treatment tactics: skin cancer, melanoma, oral cancer, lower lip, thyroid tumors, malignant lymphomas, soft tissue tumors, tumors of the biliary system, tumors of the genitourinary system	PD	OC	5	LO1 LO4 LO6 LO7
10.	Obstetrics and gynecology in general medical practice	Organization of health protection for women of fertile age in the Republic of Kazakhstan. Dispensary supervision during the entire period of physiological pregnancy at various levels of outpatient service. Management and reception of physiological childbirth. Principles of organization of gynecological care for girls and adolescents. Competencies in this field are mandatory for graduates of the educational program "Pediatrics", who must know the clinical and physiological characteristics of the female body at various age periods, carry out therapeutic and diagnostic, preventive, rehabilitation measures of physiological and pathological obstetrics and gynecology.	PD	OC	5	LO1 LO3 LO4 LO5 LO6
11.	Outpatient polyclinic pediatrics	Formation of skills and abilities in organizing and conducting a complex of preventive measures (dynamic medical supervision of children of various age groups, frequency of comprehensive examinations by their doctors of narrow specialties); medical advisory assistance at home and in a polyclinic; medical examination and rehabilitation, therapeutic and preventive care in preschool institutions and schools; antiepidemic measures and vaccination immunoprophylaxis; providing first aid in case of emergency conditions in children and adolescents; maintaining medical records, including in electronic form. The acquired knowledge will allow the pediatrician in medical activities to provide full medical care, including in critical conditions, to carry out preventive and rehabilitative measures to preserve life and health at all age periods of children's lives and successfully solve their professional tasks	PD	OC	15	LO1 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10
12.	Pediatric cardiorheumatology in general medical practice	Embryology and anatomy of the fetal heart. Morphometric and hemodynamic parameters of the fetal heart. Diagnosis of diseases of the circulatory system. Genetic and environmental aspects of congenital heart	PD	OC	10	LO1 LO2 LO3 LO7 LO8

		defects.Classification.Diagnosis and differential diagnosis.Treatment tactics. Diseases of the myocardium, endocardium. Pathology of the pericardium in children. Pathology of coronary circulation. Heart damage in hereditary diseases				LO9
13.	Neonatology in general medical practice	Medical and organizational issues of providing medical care to newborn children. Physiology and pathology of the fetus in the prenatal period. Physiology and pathology of the fetus in the intranatal period. The physiology of a full-term newborn. Medical manipulations in neonatology. Diseases of newborns. A premature newborn. Urgent conditions in neonatology. Newborns with surgical pathology.	PD	OC	5	LO1 LO2 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10
14.	Pediatric pulmonology in general medical practice	Organization of medical care for children with bronchopulmonary pathology at the PHC level. Diagnostic methods in pediatric pulmonology. Fundamentals and interpretation of the results of radiological, laboratory, functional and the latest modern alternative research methods in pediatric pulmonology. Chronic diseases of the bronchopulmonary system in children. Pneumonia. Community-acquired, aspiration, ventilator-associated pneumonia in children.	PD	OC	5	LO1 LO2 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10
15.	Dermatovenerology	Organization of pediatric dermatovenerological care in the Republic of Kazakhstan. Infectious, parasitic and viral skin diseases in children. Clinical course depending on age periods, taking into account the peculiarities of the structure of the skin and its appendages. Mycotic skin diseases, llergodermatoses, genodermatoses in children. Dermatological manifestations of HIV in children.	PD	OC	3	LO3 LO4 LO5 LO6 LO7 LO9 LO10
16.	Pediatric hematology in general medical practice	Organization of medical care for children with hematological pathology at the PHC level. Diagnostic methods in pediatric hematology. Fundamentals and interpretation of the results of laboratory, functional and the latest modern alternative research methods in pediatric hematology. Anemia: types, diagnosis, differential diagnosis, treatment, prevention. Thrombocytopenia, thrombocytopathy, coagulopathy. Acute leukemia. Chronic leukemia. Lymphocytic leukemia. Hepatolienal syndrome in children.	PD	OC	5	LO1 LO2 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10
17.	Pediatric endocrinology in general medical practice	Organization of medical care for children with endocrinological pathology at the PHC level. Fetal programming. Diseases of the hypothalamic-pituitary system. Tallness. Tumors of the pituitary gland. Disorders of carbohydrate metabolism in	PD	OC	5	LO1 LO2 LO3 LO4 LO5

		children. Diabetes mellitus in children. Obesity in children and adolescents. Diseases of the thyroid and parathyroid glands in children. Diseases of the adrenal glands and gonads in children and adolescents.				LO6 LO7 LO8 LO9 LO10
18.	Pediatric nephrology in general medical practice	Organization of medical care for children with neurological pathology at the PHC level. Methods of ultrasound, X-ray and laboratory diagnostics of the urinary system. The latest methods for assessing the functional state. Vesicoureteral reflux, reflux nephropathy. Bladder dysfunction. Infectious diseases of the urinary system. Features of nephritic and nephrotic syndrome in children of different ages. Urolithiasis in children.	PD	OC	5	LO1 LO2 LO3 LO4 LO5 LO6 LO7 LO8 LO9 LO10
19.	Pediatric gastroenterolog y in general medical practice	Organization of medical care for children with gastroenterological pathology at the PHC level. Principles of diagnosis and interpretation of the results of ultrasound, endoscopic and laboratory research methods. The latest diagnostic methods in pediatric gastroenterology. Functional disorders of the gastrointestinal and biliary tract. Intestinal colic. Irritable bowel syndrome. Postprandial distress syndrome. Chronic diseases of the gastrointestinal tract. Pathology of the hepatopancreatobiliary system. Malabsorption syndrome.	PD	OC	6	LO1 LO2 LO3 LO4 LO5 LO6 LO7 P8 LO9 LO10
20.	Radiation diagnostics in general medical practice	X-ray semiotics of organs and systems. Clinical and radiological syndromes and diagnostic algorithms for diseases and injuries of internal organs, especially in children and adolescents. The possibilities of X-ray, ultrasound, CT, MRI in the diagnosis of benign and malignant tumors of organs and systems. Preclinical radiation diagnostics (screening). The main radiological symptoms and syndromes, differential diagnosis and interpretation of images	PD	OC	3	LO1 LO 2 LO 3 LO 4 LO 5 LO 6 LO 7 LO8 LO9 LO10
21.	**Final state certification**				**4**	