

АДАМ УНИВЕРСИТЕТИ УНИВЕРСИТЕТ АДАМ ADAM UNIVERSITY



School of Medicine

Provision was considered at the meeting of the Educational Board of School of Medicine, recommended for approval

Protocol No. 10 as of " 28 " 06, 2024



GRADUATE MODEL

Specialty: 560001 «General Medicine» qualification «Doctor»

Specialty: «General Medicine» qualification «Doctor»

Bishkek 2024

The model of a graduate of Adam University, specialty - 560001 "General Medicine" with the qualification "Doctor" of the School of Medicine was discussed at a meeting of the Department of Morphological, Therapeutic and Surgical Disciplines (DMTSD) on February 28, 2024. Protocol No. 10.

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Definition, basic concepts

A model is a system of material or imaginary objects that reflects the essential features (properties) of a real object that meet the goals of modeling.

Modeling is the process of exploring a real object using a model. The original object is called the prototype or the original.

The purpose of modeling is to assign a future model. The goal defines the properties of the original object that should be reproduced in the model.

Modeling in education as a method of cognition is carried out in several stages:

- formation of the composition of the main basic elements of the model;
- formation of a general block diagram;
- design of control actions.

The graduate model is the goal and system of personality qualities of the graduate, the end result of the educational system based on the acquisition of competencies for the entire period of study, with the willingness to apply the accumulated knowledge, skills and abilities in professional activity.

Competence is a dynamic combination of personal qualities, knowledge, skills and abilities necessary to engage in professional activity in the specialty (to know how to do it).

Competence is the integration of professional, personal qualities, knowledge and skills that ensure the effective implementation of competencies (to know what to do).

The graduate's competence model is a complex integral image of the final result of the implemented educational process.

Credit (credit unit) is a conditional measure of the labor intensity of the main professional educational program;

A module is a part of an academic discipline that has a certain logical completeness in relation to the established goals and results of training and upbringing.

The direction of training is a set of educational programs for the training of personnel with higher professional education (specialists) of various profiles, integrated on the basis of the generality of fundamental training.

The main educational program is a set of educational and methodological documentation regulating the goals, expected results, content and organization of the educational process in this area of training (specialty) of higher professional education.

Educational outcomes are expected indicators of what the learner should know, understand and/or be able to accomplish at the end of the learning process. They can relate to a single course, module or period of study, as well as to the first or second level program as a whole.

Learning outcomes are competencies acquired as a result of training in the main educational program.

A cycle of disciplines is a part of an educational program or a set of academic disciplines that has a certain logical completeness in relation to the established goals and results of training, education;

1. The procedure for the formation of competencies

The procedure for forming the list of competencies of the Main Curriculum of SM is based on the list of competencies of the State Higher Educational Institution in the field of training 560001 "General Medicine" and includes additional competencies according to the mission and specifics of the activities of the SM of Adam University (AU).

Compet List of competencies of a graduate of SM of AU List of competencies according to State Educational ence **Standard of Higher Professional Education** code a) universal: General scientific competencies (GSC) able to analyze socially significant problems and processes, to able to analyze socially significant problems and processes, understand GSC-1 use in practice the methods of the humanities, natural sciences, the connection between natural and fundamental disciplines for further biomedical and clinical sciences in various types of development of clinical disciplines, understand the essence and social professional and social activities; significance of the future profession, use in practice the methods of humanities, natural sciences, biomedical and clinical sciences in various types of professional and social activities; capable of analyzing ideological, socially and personally significant GSC-2 capable of analyzing ideological, socially and personally significant problems, basic philosophical categories, and selfproblems, basic philosophical categories, self-improvement, organizing his own activities, choosing standard methods, organizing his own improvement; activities, choosing standard methods and ways of performing professional tasks, evaluating their effectiveness and quality; GSC-3 able to analyze significant political events and trends, to master able to analyze significant political events and trends, to master the basic the basic concepts and laws of the world historical process, to concepts and laws of the world historical process, to respect and care of respect and care of historical heritage and traditions, to possess historical heritage and traditions, to possess knowledge of historical and medical terminology, to make decisions in standard and non-standard knowledge of historical and medical terminology; situations and be responsible for them;

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Table of competencies

methods of economic relations in the healthcare system;had a great impact on historical development, use method relations in the healthcare system;GSC-5capable of logical and reasoned analysis, public speech, discussion and polemics, educational and instructional activities, cooperation and conflict resolution; tolerance;had a great impact on historical development, use method relations in the healthcare system;GSC-6able and ready to learn one of the foreign languages at the level of everyday communication, to written and oral communication in the state and official languages;able and ready to learn one of the foreign languages at able and ready to learn one of the foreign languages; able and ready to learn one of the foreign languages;able and ready to learn one of the foreign languages at able and ready to learn one of the foreign languages; able and ready to learn one of the foreign languages;able and ready to learn one of the foreign languages at everyday communication, to written and oral communicati language and official languages, to be able to express his t and in writing, to understand the basic essence of the or program;GSC-7able to use management methods; organize the work of the team, find and make responsible management decisions within their professional competence;able to use management decisions within in competence, make responsible decisions in various circur able to carry out its activities taking into account the moral and legal norms accepted in society; comply with the rules of medical ethics, laws and regulations on working with confidential information; maintain medical secrecy.able to usery out its activities taking into account the moral and norms accepted in society; comply with the rules of medical and regulations on working with confid	ses that have
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IC-1 ability to work independently on a computer (basic skills); ability to work independently on a computer (elementa computer programs to study various disciplines, find	
computer programs to study various disciplines, find	
information on the Internet, is able to work with information	-
	ion in global
computer networks;	
IC-2 ready for written and oral communication in the state language ready for written and oral communication in the state	00
and official languages, able to master one of the foreign official languages, able to master one of the foreign lan	and a set the
languages at the level of everyday communication;level of everyday communication.	guages at the

IC -3	able to use management methods; organize the work of	able to use management methods; organize the work of performers; find	
	performers; find and make responsible management decisions	and make responsible management decisions in conditions of different	
	in the conditions of different opinions and within his	opinions and within his professional competence.	
	professional competence;		
IC – 4	willingness to work with information from various sources.	willingness to work with information from various sources, using	
		information, bibliographic resources, terminology, information and	
		communication technologies, to be able to analyze and apply the	
		collected information in rapidly changing modern conditions, ready to	
		use regulatory documents in their activities.	
	Socio-personal and general cult	tural competencies (SPGCC)	
SPGCC	able to implement ethical and deontological aspects of medical		
-1	activity in communication with colleagues, nurses and junior	in communication with colleagues, nurses and junior staff, adults and	
	staff, adults and children;	children, work in a team and team, communicate effectively with	
colleagues, management, patients.		colleagues, management, patients.	
SPGCC	able and ready to identify the natural-scientific essence of the	able and ready to identify the natural-scientific essence of the problems	
-2	problems that arise in the course of a doctor's professional	that arise in the course of a doctor's professional activity;	
	activity;		
SPGCC	capable of analyzing medical information based on the	capable of analyzing medical information using modern information	
-3	principles of evidence-based medicine;	technologies, based on the principles of evidence-based medicine;	
SPGCC	able to apply modern socio-hygienic methods of collecting and	able to apply modern socio-hygienic methods of collecting and medical-	
-4	medical-statistical analysis of information on the health	statistical analysis of information on the health indicators of the child	
	indicators of the child population;	population;	
SPGCC	able to use methods of assessing natural (including	is able to use methods of assessing natural (including	
-5	climatogeographic) and medico-social environmental factors in	climatogeographic) and medico-social environmental factors in the	
	the development of diseases in children and adolescents, to	development of diseases in children and adolescents, to carry out their	
	carry out their correction;	correction;	
	Professional competencies (PC)		

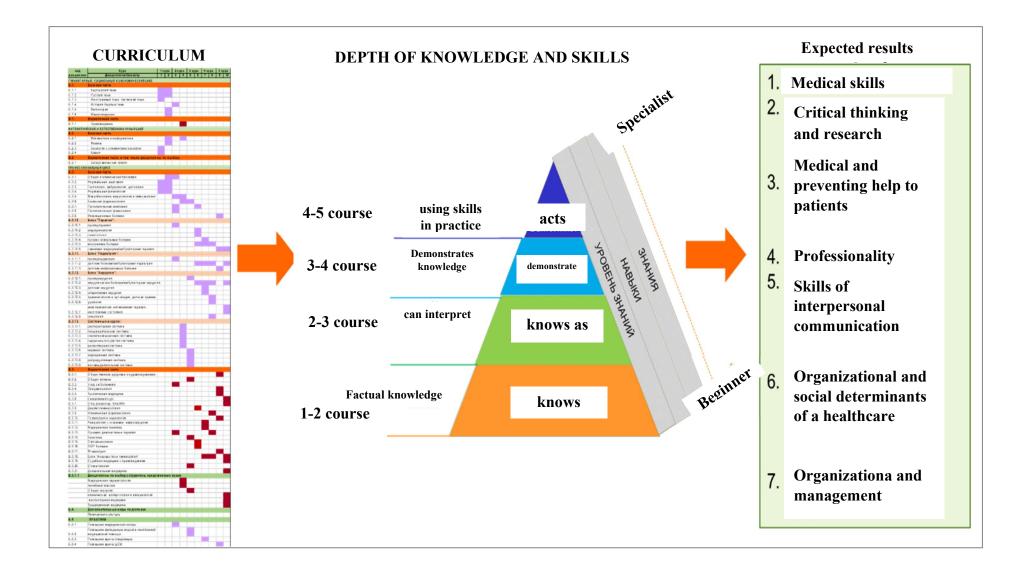
PC-1	able to analyze the results of his own activities to prevent	able to analyze the results of his own activities to prevent medical errors,
	medical errors, while being aware of disciplinary,	while being aware of disciplinary, administrative, civil, criminal
	administrative, civil, criminal liability;	liability;
PC-2	able and ready to conduct and interpret a survey, physical	able and ready to conduct and interpret a survey, physical examination,
	examination, clinical examination, the results of modern	clinical examination, the results of modern laboratory and instrumental
	laboratory and instrumental studies, write a medical record of	studies, write a medical record of an outpatient and inpatient patient of
	an outpatient and inpatient patient of an adult and a child;	an adult and a child, taking into account national specifics and
		international practice, identify various symptoms, syndromes and
		pathological conditions in patients;
PC -3	can conduct pathophysiological analysis of clinical syndromes,	capable of conducting pathophysiological analysis of clinical
	substantiate pathogenetically justified methods (principles) of	syndromes, substantiate pathogenetically justified methods (principles)
	diagnosis, treatment, rehabilitation and prevention among	of diagnosis, treatment, rehabilitation and prevention among adults and
	adults and children, taking into account their age and sex	children, taking into account their age and gender groups; solve
	groups;	professional tasks of a doctor based on pathophysiological analysis of
		specific data on pathological processes, conditions, reactions and
		diseases;
PC -4	able to apply methods of asepsis and antiseptics, use medical	able to apply aseptic and antiseptic methods, use medical instruments,
	instruments, master the technique of caring for sick adults and	master the technique of caring for sick adults and children, know the
	children;	principles of organization of work of medical institutions, the device and
		equipment of medical departments of hospitals; theoretical foundations
		and modern concept of nursing, organization of work of junior and
		secondary medical personnel;
PC -5	capable to work with medical and technical equipment used in	capable of working with medical and technical equipment used in
	working with patients, own computer equipment, receive	working with patients, possess computer technology, receive
	information from various sources, work with information in	information from various sources, work with information in global
	global computer networks, use the capabilities of modern	computer networks, use the capabilities of modern information
	information technologies to solve professional tasks;	technologies to solve professional problems, the basic laws of

		development and vital activity of the human body based on the structural organization of all levels;
PC -6	able to apply up-to-date information on the health indicators of	is able to apply up-to-date information on public health indicators at the
	the population at the level of health facilities;	level of a medical and preventive institution (MPI), readiness to apply
		the basic principles of organization and management in the field of
		public health protection, in medical organizations and their structural
		divisions
	Offensive	activity
OA -7	to carry out preventive measures to prevent infectious, parasitic	to carry out preventive measures to prevent infectious, parasitic and non-
	and non-communicable diseases, to carry out sanitary and	communicable diseases, to carry out sanitary and educational work on
	educational work on hygienic issues;	hygienic issues;
OA -8	to carry out preventive measures with the attached population	able to carry out preventive measures with the attached population to
	to prevent the occurrence of the most common diseases, carry	prevent the occurrence of the most common diseases, carry out general
	out general health measures to form a healthy lifestyle taking	health measures to form a healthy lifestyle taking into account risk
	into account risk factors, give recommendations on healthy	factors, give recommendations on healthy nutrition;
	nutrition;	
OA -9	able to select individuals for observation, taking into account	able to select individuals for observation, taking into account the results
	the results of mass tuberculin diagnostics and fluorographic	of mass tuberculin diagnostics and fluorographic examination, to
	examination, to evaluate its results for the purpose of early	evaluate its results for the purpose of early detection of tuberculosis;
	detection of tuberculosis;	
OA -10	capable of carrying out anti-epidemic measures, protecting the	capable of carrying out anti-epidemic measures, protecting the
	population in the foci of particularly dangerous infections, with	population in the foci of particularly dangerous infections, with the
	the deterioration of the radiation situation and natural disasters;	deterioration of the radiation situation and natural disasters, readiness
		for the management and treatment of patients in need of pre-hospital
		medical care in urgent conditions;
	Diagnostic	

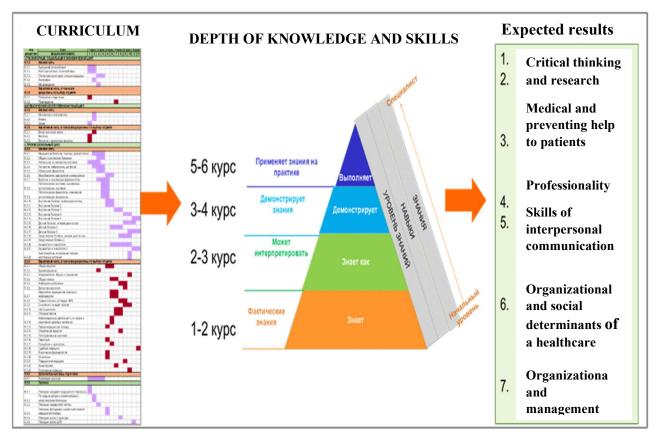
DA -11	capable and ready to make a diagnosis based on the results of	able and ready to make a diagnosis based on the results of biochemical
	biochemical and clinical studies, taking into account the course	and clinical studies, taking into account the course of pathology in
	of pathology in organs, systems and the body as a whole;	organs, systems and the body as a whole, analyze the results of
		biochemical and clinical studies taking into account the course of
		pathological processes, having the techniques of diagnosis, know the
		etiology, pathogenesis of disease development and clinical thinking;
DA -12	able to analyze the patterns of functioning of individual organs	able to analyze the patterns of functioning of individual organs and
	and systems, use knowledge of anatomical and physiological	systems, use knowledge of anatomical and physiological features, basic
	features, basic methods of clinical and laboratory examination	methods of clinical and laboratory examination and assessment of the
	and assessment of the functional state of the body of an adult	functional state of the body of an adult and children, for timely diagnosis
	and children, for timely diagnosis of diseases and pathological	of diseases and pathological processes. Readiness to identify
	processes;	pathological conditions, symptoms, disease syndromes, nosological
		forms in patients.
DA -13	able to identify the main pathological symptoms and	The main pathological symptoms and syndromes of diseases in patients
	syndromes of diseases in patients, using knowledge of the	taking into account ICD-10. Perform basic diagnostic measures to
	basics of biomedical and clinical disciplines, taking into	identify urgent and life-threatening conditions, having a method of
	account the course of pathology in organs, body systems as a	providing emergency care to patients: resuscitation measures in case of
	whole, analyze the patterns of functioning of organs and	clinical death; mouth-to-mouth artificial respiration; methods of
	systems in various diseases and pathological processes, use an	cleaning the upper respiratory tract.
	algorithm for diagnosis (main, concomitant, complications)	
	taking into account the ICD-10, perform basic diagnostic	
	measures to identify urgent and life-threatening conditions.	
	Therapeuti	c activity
TA -14	able to perform basic therapeutic measures for the most	able to perform basic therapeutic measures for the most common
	common diseases and conditions in adults and children;	diseases and conditions in adults and children, ready for the management
		and treatment of patients in need of emergency pre-hospital medical
		care;

TA -15	able to prescribe adequate treatment to patients in accordance	able to prescribe adequate treatment to patients in accordance with the
	with the diagnosis;	diagnosis, readiness for the management and treatment of patients in
		need of pre-hospital medical care in urgent conditions;
TA -16	able to provide first aid to the adult population and children in	able to provide first aid to the adult population and children in case of
	case of urgent and life-threatening conditions, to send patients	urgent and life-threatening conditions, to send patients to hospital in a
	to hospital in a planned and emergency manner;	planned and emergency manner;
TA -17	able to prescribe adequate treatment to patients in accordance	able to prescribe adequate treatment to patients in accordance with the
	with the diagnosis;	diagnosis, readiness;
TA - 18	it is able to provide first aid to the adult population and children	it is able to provide first aid to the adult population and children in case
	in case of urgent and life-threatening conditions, to send	of urgent and life-threatening conditions, to send patients to hospital in
	patients to hospital in a planned and emergency manner;	a planned and emergency manner;
	Rehabilitatio	on activity
RA - 19	able and ready to apply rehabilitation measures (medical, social	able and ready to apply rehabilitation measures (medical, social and
	and professional) among adults and children with the most	professional) among adults and children with the most common
	common pathological conditions and injuries of the body;	pathological conditions and injuries of the body, readiness to provide
		emergency medical care to patients with various pathologies in
		emergency situations, participation in medical evacuation;
RA - 20	able to give recommendations on the choice of regimen,	able to give recommendations on the choice of regimen, determine
	determine indications and contraindications for the	indications and contraindications for the appointment of physical
	appointment of physical therapy, physiotherapy, non-drug	therapy, physiotherapy, non-drug therapy, use the main resort factors in
	therapy, use the main resort factors in the treatment of adults	the treatment of adults and children;
	and children;	
	Educationa	
EA -21	capable of teaching secondary and junior medical personnel	capable of teaching secondary and junior medical personnel and patients
	and patients the rules of sanitary and hygienic regime, ethical	the rules of sanitary and hygienic regime, ethical and deontological
	and deontological principles;	principles;
EA -22	capable of teaching the adult population, children the rules of	capable of teaching the adult population, children the rules of medical
	medical behavior; to conduct hygienic procedures, to form	behavior; to conduct hygienic procedures, to form healthy lifestyle
	healthy lifestyle skills;	skills;
	Organizational mar	
OMA -	able to use the regulatory documentation adopted in the	able to use the regulatory documentation adopted in the healthcare of the
23	healthcare of the Kyrgyz Republic;	Kyrgyz Republic;

OMA -	able to use the knowledge of the organizational structure,	able to use knowledge of the organizational structure, healthcare
24	healthcare organizations. Referral and redirection system;	organizations, referral and redirection system, readiness to apply the
		basic principles of organization and management in the field of
		healthcare, medical organizations and their structural divisions;
OMA -	able to ensure the rational organization of the work of	
25	secondary and junior medical personnel of medical and	junior medical personnel of medical and preventive institutions;
	preventive institutions;	
OMA -	must know the main issues of the examination of working	must know the main issues of the examination of working capacity
26	capacity (temporary) among the population, carry out the	(temporary) among the population, carry out the prevention of disability
	prevention of disability among adults and children;	among adults and children, readiness to participate in the assessment of
		the quality of medical care using basic medical statistical indicators;
	Research	activity
RA -27	ready to study scientific and medical information, domestic and	ready to study scientific and medical information, domestic and foreign
	foreign experience on the subject of research;	experience on the subject of research, including general and specific
		questions on the use of modern search methods in various directions;



Curriculum "General Medicine": Correlation of the curriculum (6 years of study) with the level (depth) of knowledge and expected results



1. The graduate's competence model

The graduate model reflects the goals of education, that is, the expected results of education.

The goal (expected result) of modern education, in our opinion, can be considered the development of those personality traits that are necessary for self-development, for professional self-realization, at the same time can be fully used by society.

The graduate model is dynamic and is based on the principle of continuous quality improvement based on feedback and advance communication.

Expected learning outcomes

Result of training 1: Able to use basic knowledge of humanities, natural sciences, economic disciplines in professional activities.

Result of training 2: Able to carry out business communication, to express their thoughts in a reasoned and clear manner in the state and official languages, to speak one of the foreign languages at the level of social communication.

Result of training 3: Able to implement ethical, deontological principles, analyze the results of their own activities and apply the knowledge gained for rational use in professional activities.

Result of training 4: Able to own and use information resources, computer technology, medical equipment to solve professional tasks.

Result of training 5: is able to apply fundamental knowledge in the assessment of morpho functional and physiological states of the body for timely diagnosis of diseases and detection of pathological processes.

Result of training 6: Able to interpret the results of biochemical and clinical studies when making a diagnosis.

Result of training 7: Is able to carry out preventive and anti-epidemic measures aimed at preventing the occurrence of diseases, preserving and strengthening health.

Training result 8: can analyze, interpret the data obtained, and

prescribe adequate treatment and provide primary medical care, make

decisions in case of emergency and life-threatening situations

Result of training 9: is able to carry out rehabilitation activities among the adult

population, adolescents and children using means of physical therapy

, physiotherapy, resort factors.

Result of training 10: has the skills of management in the healthcare system, maintain accounting and reporting documentation, analyze statistical data.

Result of training 11: is able to analyze scientific literature and official static reviews, participates in solving research tasks for the development of new methods and technologies in the field of medicine.

Educational Results (ER)

for the specialty " General Medicine" on the basis of the State Standard 2015 ER1 - able to use basic knowledge of humanities, natural sciences, economics in professional activities.

ERI = GSC1+GSC2+GSC3+GSC4+SPC2

GSC-1 -able to analyze socially significant problems and processes, to use in practice the methods of humanities, natural sciences, medical-biological and clinical sciences in various types of professional and social activities;

GSC-2 - able to analyze world view, socially and personally significant problems, the basic philosophical categories, to self-improvement;

GSC-3 -able to analyze significant political events and trends, to comprehend basic concepts and patterns of the world historical process, to respect and cherish historical heritage and traditions, to possess knowledge of historical and medical terminology;

GSC-4 - able to analyze economic problems and social processes, to use the methods of economic relations in the health care system;

SPC -2 - able and willing to identify the natural scientific essence of the problems arising in the course of the professional activity of a doctor.

ER2 - able to communicate professionally, express his/her thoughts clearly and reasonably in the state and official languages, to know one of the foreign languages at the level of social communication.

ER2 = GSC 5 + GSC 6 + IC2

GSC-5 -able to analyze logically and reasonably, to speak publically, to debate and

argue, to teach and educate, to cooperate and resolve conflicts; to be tolerant;

GSC-6 - able and willing to study one of the foreign languages at the household level, to write and communicate verbally in the state and official languages;

IC-2 - willing to communicate in the state language and the official language, is capable of mastering one of the foreign languages at the level of household communication;

ER3 -able to implement ethical, deontological principles, to analyze the results of its own activities and apply the acquired knowledge for rational usage in professional activity.

РОЗ = СЈІК1+ОК7+ОК8+ИК3+ПК1 +ПК21+ПК25

SPC-1 - able to implement ethical and deontological aspects of medical activity in communication with colleagues, nurses and junior staff, adults and children;

GSC-7 - able to use management methods; to organize teamwork, to find and make responsible administrative decisions within own professional competence;

GSC-8 -able to act in accordance with socially accepted moral and legal norms; to comply in accordance with the rules of medical ethics, laws and regulations concerning the confidentiality of information; to maintain medical confidentiality;

IC -3 -able to use management methods; to arrange the work of executives; to find and make responsible administrative decisions within the range of opinions and within the limits of own professional competence;

PC-1 - able to analyze the results of own activities to prevent medical errors, being aware of disciplinary, administrative, civil and criminal liability;

PC-21 - able to train nursing staff and patients in the rules of sanitary and hygienic rules, ethical and deontological principles;

PC-25 - able to provide rational organization of labor of paramedical and nursing staff of medical and preventive institutions;

ER4 - able to master and use information resources, computer equipment, medical devices for the solution of professional objectives.

ER4 = IC1 + IC4 + SPC3 + PC5 + PC27

IC-1 - ability to work independently with a computer (elementary skills);

PC-5 -able to work with medical and technical equipment which is used in the process of patient treatment, to possess computer skills, to obtain information from various sources, to work with information in global computer networks, to apply the capabilities of modern information technology for the solution of professional objectives;

SPC-3 able of analyzing medical information based on the principles of evidencebased medicine;

PC-5 able to work with medical and technical equipment which is used in the process of patient treatment, to possess computer skills, to obtain information from various sources, to work with information in global computer networks, to apply the capabilities of modern information technology for the solution of professional objectives;

PC-27 willing to study scientific and medical information, national and foreign experience in the subject of research;

ER5 - Able to use the basic knowledge while assessing the morphofunctional and physiological conditions of the body for early diagnosis of diseases and detection of pathological processes.

ER5 = PC3+PC12+PC13

PC-3 -able to provide pathophysiological analysis of clinical syndromes, to prove pathogenetically justified methods (principles) of diagnosis, treatment, rehabilitation and prevention among adults and children, considering their age and sex groups;

PC-12 -able to analyze the regularities of functioning of individual organs and systems, to use knowledge of anatomical and physiological features, basic methods of clinical and laboratory examination and evaluation of the functional condition of the adult and child body, for effective diagnosis of diseases and pathological processes;

PC-13 -able to identify the main pathological symptoms and disease syndromes in patients, according to the basic knowledge of biomedical and clinical disciplines, considering the course of pathology of organs, body systems in general, analyze the patterns of functioning of organs and systems in various diseases and pathological processes, to use the algorithm of diagnosis (main, related, complications) with the ICD-10, perform basic diagnostic measures to identify urgent and life-threatening conditions;

ER6 - able to interpret the results of biochemical and clinical researches during diagnosis.

$\mathbf{ER6} = \mathbf{PC2} + \mathbf{PC4} + \mathbf{PC11}$

PC-2 -able and willing to conduct and interpret an interview, physical examination, clinical examination, results of modern laboratory and instrumental research, to write a medical record of an outpatient and inpatient adult and child;

PC-4 - able to use aseptic and antiseptic methods, use medical instruments, know the techniques of nursing adults and children;

PC-11 - able and willing to make a diagnosis based on the results of biochemical and clinical studies, considering the pathology of the organs, systems and the body in general;

ER7 - able to provide preventive and anti-epidemic measures aimed at preventing the emergence of disease, preserving and strengthening health.

ER7 = SPC5+PC7+PC8+PC9+PC10+PC22

SPC -5 - able to use methods to assess natural (including climatic and geographical) and medical and social environmental factors in the development of diseases among children and adolescents, to provide their correction;

PC-7 - able to implement preventive measures to prevent infectious, parasitic and noninfectious diseases, provide sanitary enlightenment on hygienic issues;

PC-8 -able to conduct preventive measures with the attached population to prevent the occurrence of the most common diseases, to implement general health measures to promote a healthy lifestyle, considering the risk factors, to make recommendations for a healthy diet;

PC-9 - able to perform selection of persons for observation, with regard to the results

of mass tuberculinodiagnostics and fluorographic examination, to assess its results in order to detect tuberculosis at an early stage;

PC-10 - able to perform anti-epidemic measures, protection of population in areas of particular hazardous infections, in case of deteriorating radiation situation and natural disasters;

PC-22- able to teach adults and children of the medical behavior rules; to implement them hygienic procedures, to develop skills for a healthy lifestyle;

ER8 - Is able to analyze and interpret the obtained data and prescribe appropriate treatment and provide first aid, to make decisions in case of emergency and life-threatening situations

ER8 = PC8+PC14+PC15+PC16+PC17+PC18

PC-8 able to provide preventive measures with the attached population to prevent the occurrence of the most common diseases, to provide general health measures to promote a healthy lifestyle, in accordance with risk factors, to give recommendations for a healthy diet;

PC-14 - able to implement basic therapeutic measures for the most common diseases and conditions of adults and children; PC-15 - able to prescribe appropriate treatment for patients in accordance with the diagnosis;

PC-16 -able to provide first aid to adults and children in case of emergencies and lifethreatening conditions in case of emergencies and life-threatening conditions, refer patients for hospitalization in a planned and emergency manner;

PC-17 - able to prescribe appropriate treatment for patients in accordance with the diagnosis:

PC-18 -able to provide first aid to adults and children in case of emergencies and lifethreatening conditions, direct patients for hospitalization on a planned and emergency basis;

ER 9 - Is able to conduct rehabilitation activities among adults, adolescents and children through physical training, physiotherapy, and therapeutic factors.

$\mathbf{ER9} = \mathbf{PC19} + \mathbf{Pc20} + \mathbf{PC26}$

PC- 19 - able and capable to implement rehabilitation measures (medical, social and professional) among adults and children for the most common pathological conditions and injuries;

PC- 20 -able to give recommendations for the choice of regime, determine indications and contraindications to the prescription of physical training, physical therapy, non-medicinal therapy, use the main resort factors in the treatment of adults and children;

PC-26 - should know the basic issues of disability (temporary) examinations among the population, and conduct disability prevention among adults and children;

ER10 - Possesses management skills in the health care system, record documentation, and analysis of statistical data.

POIO = SPC4 + PC6 + PC23 + PC24

SPC-4 - able to use modern socio-hygienic methods of collecting and medicostatistical analysis of information on the health indicators of the child population: PC-6 - Able to apply updated information on population health indicators at the level of Therapeutic and Prophylactic Institution(LPI);

PC-23 - able to use the normative documentation adopted in the health care of the Kyrgyz Republic;

PC-24 - able to use knowledge of organizational structure, health care organizations. Referral system;

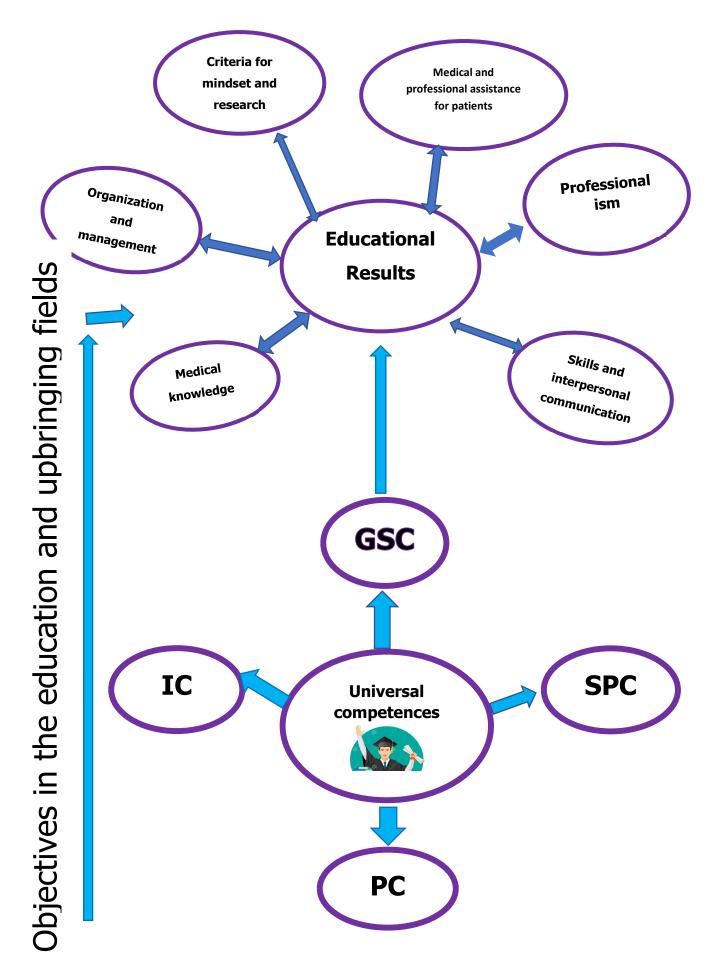
ER11 - able to analyze scientific literature and official statistical reviews, participates in the solution of scientific and research issues on the development of new methods and technologies in the field of medicine.

ER11 = IC4 + SPC3 + PC27

IC - 4 - willingness to work with information from a variety of sources;

SPC-3 - able to analyze medical information based on the principles of evidence-based medicine;

PC-27 - ready to study scientific and medical information, native and foreign experience in the field of research.



4.1. Defining objectives for all of the graduate's activities

According to the SES HPE, a graduate must acquire the following types of activities:

- preventive;
- diagnostic;
- therapeutic
- rehabilitation;
- psychological and pedagogical;
- organizational and managerial;
- scientific research.

The objectives that correspond to the listed activities are defined.

Based on objectives:

- are defined:
- the purpose and content of general practice;
- the level of competence, knowledge and skills of the general practice;
- are developed:
- training and thematic improvement programs for general practice;
- criteria for assessing the quality of training of students and doctors in different stages of education;
- standard requirements for certification of general practice;
- standards for examination, treatment, rehabilitation, and monitoring patients;
- are organized:
- educational process;
- professional orientation of applicants to the medical universities;
- is held:
- egraduate certification.

General objectives are the competencies that a graduate must obtain (in accordance with the State Educational Standard of Higher Professional Education for the specialty 560001 "General Medicine"). Competences are presented in the form of general and specific.

Symptoms/Problems - competencies for evaluating symptoms, complaints, or patient conditions that a doctor may encounter in his/her practice. The graduate should structurally evaluate the patient with a given symptom/problem, and make a differential diagnosis. The graduate should suggest appropriate diagnostic, therapeutic, social and preventive measures and, in the case of life-threatening conditions, provide emergency care.

The disciplinary objectives contain competencies where are listed the "clinical conditions" of diseases/pathological conditions that the graduate should be able to diagnose and/or treat, and the "Theoretical Foundations" block, which lists the knowledge that the graduate should possess. The following gradation is given to indicate the level of knowledge (Table No. 1).

Grade level of knowledge

	Level 1	Level 2
Clinical	The graduate should be familiar with	The graduate must solve the clinical
Conditions	the clinical situation:	situation:
	The graduate can make a tentative diagnosis of the condition as well if necessary, defining it in general terms without getting into specifics.	The graduate can collect the anamnesis in a structural manner, conduct a physical examination. He/she can make a diagnosis on the given condition, conduct an active search for typical complaints and symptoms. He/she can continue appropriate diagnostic and therapeutic measures, considering epidemiological data, laboratory findings. He/she can appropriately explain to the patient the necessary diagnostic, therapeutic and rehabilitative measures.
Theoretical	Level of general knowledge:	Level of practical application:
basics	The graduate can describe the concept or procedure in general terms, including indications and contraindications. He/she knows the relevance and significance of the phenomenon/procedure in the specific clinical situation. He/she has seen the correct performance of the procedure (in a clinical setting, on a simulator, on video or by other technical means)	The graduate can use knowledge in interpreting examination results, advising patients on treatment, prevention, and rehabilitation.

The following designations are used to denote the competency that a graduate must possess in the management of a disease/pathological condition:

Α	The diagnosis of the disease is determined directly by the doctor on the basis of physical
	examination, simple methods of examination, prescribed and interpreted by the doctor
	personally.
В	The treatment is administered personally by a doctor, including the usual patterns of
	treatment for non-complicated cases
С	The doctor is capable to assess the patient's condition and initiate emergency measures.
	The doctor is not obliged to make a clinical diagnosis, his emergency measures can be
	based on a reasonable preliminary diagnosis.
D	The doctor knows and is capable of implementing preventive measures

Diseases/pathological conditions are represented by groups, by discipline:

- Internal diseases.
- Pediatric diseases, pediatric infectious diseases
- Surgical diseases, pediatric surgical diseases
- Diseases of the female genital organs and the breast
- Infectious diseases
- Tuberculosis
- Diseases of the nervous system
- Mental diseases
- Skin and sexually transmitted diseases
- Ear, throat and nose diseases
- Eye diseases
- Dentistry
- Oncology
- Emergency conditions
- Pharmacotherapy
- Medical Therapy
- Public Health
- Forensic Medicine

Medical manipulation: lists manipulations with which the graduate must be familiar and/or to some degree proficient.

The degree of mastery of a skill that a graduate must possess, described using the following gradation of levels:

	Level 1	Level 2
Medical	The graduate should have some	The graduate should implement the
procedures	practical experience.	skill on a regular basis.
	The graduate can explain the principle	The graduate can explain the principle of
	of manipulation, knows the indications	the manipulation, has the correct
	and contraindications for manipulation,	technique to perform the manipulation,
	knows the clinical significance of the	and has enough experience to perform
	procedure in a specific clinical	the manipulation independently. The
	situation, has seen the manipulation	manipulation should be practiced on

performed (on a patient, on a muzzle,	patients of all age categories (except
on video, or others).	newborns). The graduate is able to
	interpret the data obtained as a result of
	the manipulation.

All medical procedures are conventionally grouped into the following categories:

- Interviewing a patient
- Information management
- Physical examination
- General procedures
- Emergency procedures
- Surgical proceduresOtolaryngological procedures
- Ophthalmic procedures
- Skills and procedures used in obstetrics and pediatrics

DISCIPLINARY ISSUES (fragment)

Nosology name	Уровень	A	B	C	D
3.1. Internal diseases					
Clinical conditions					
RESPIRATORY DISEASES					
Acute respiratory infections	2	A	В	C	D
Pneumonia	2	A	В	C	D
Bronchial asthma	2	Α	В	C	D
Acute and chronic bronchitis	2	Α	В		D
Chronic obstructive pulmonary disease	2	Α	В	С	D
Bronchiectatic disease	1	Α	В		
Lung emphysema. Pneumosclerosis	2	Α	В	C	D
Chronic respiratory failure, pulmonary hypertension, pulmonary	2	Α	В	C	D
heart					
Pneumonic abscess and gangrene	1	Α	В		D
Pleurisy, dry and exudative. Pleural empyema					
Pneumothorax, pulmonary atelectasis	2	Α	В	C	D
Silicosis. Asbestosis	1	Α	В		
Pneumoconiosis	1	Α			D
Pulmonary tuberculosis	1	Α			D
CIRCULATORY SYSTEM DISEASES	1	Α		C	D
Hypertension and systemic hypertension	•				
Arterial hypotension	2	A	В	C	D
Atherosclerotic disease	2	Α	В		
Myocardial infarction	2	Α	В	С	D
Stenocardias	2	Α	В	С	D
Pericarditis	2	Α	В	С	D

Postinfarction cardiosclerosis	2	A			
Atherosclerotic cardiosclerosis	2	A	В	С	D
Congenital and acquired heart defects	2	A	В	С	D
Myocarditis	2	A	В	C	D
Cardiomyopathy	2	A	В	C	D
Infectious endocarditis	2	A	В	C	D
Rhythm and conduction disorders (arrhythmias, blockages)	1	A			D
Congestive heart failure	2	A	В	C	D
Pulmonary embolism	2	Α	В	С	D

MEDICAL PROCEDURES (fragment)

Competence	Level
3.1. Patient interview	
Collection of basic and additional complaints, assessment of the patient's	1
perception of his/her problems	
assessment of the socio-economic status of the patient, the patient's cultural	1
characteristics	
Purposeful collection of medical anamnesis (interviewing about the story of this	1
disease): the beginning of the disease, the time of appearance and the dynamics of	
symptoms; the ability to build a chronological story from the first symptoms until	
the moment of treatment to the doctor; the reason for the medical treatment	
Collection of the life anamnesis (general information about the patient's life)	1
Collection of allergic anamnesis	1
Third-person anamnesis collection	1
Comprehension and responsiveness to nonverbal signs	1
Collection of psychiatric anamnesis	1
Communication and the collection of anamnesis from a patient with a serious	1
illness or a terminal patient	
Communication and anamnesis collection from a patient with speech defects	1
Collection of family anamnesis (drawing a family tree)	1
Collection of professional anamnesis	1
Identification of harmful risk factors associated with the patient's behavior	1
(smoking, inactive lifestyle, nutritional deficiencies, hygiene habits, etc.)	
Collecting a drug anamnesis	1
3.2. Management of information	
Formulation of a clinical question and research of its solution in the academic	2
literature	
Notifying patient and his/her relatives, colleagues and other health care staff	1
about the results of the survey	
Reporting negative information to a patient and his/her relatives	1
Briefing a patient for informed consent	1
Documentation of the results of the survey in the medical history/ambulatory	2
card of the patient	

Drafting a discharge and transfer epicrysis	2
Consultation of the patient on issues related to the patient's lifestyle (nutrition,	2
physical activity, smoking, alcohol and drug usage)	
Filling out a prescription	2
Filling out a document of mortality	1
Designation of the disease by the code according to the current International	2
Classification of diseases	
Working in accordance with current national protocols/guidelines	2
Contraception consultations, including post-coital contraception	2
A telephone conversation with a patient, assessment of psycho-social, economic,	1
and hygienic conditions	
3.3. Physical examination	
Assessment of the patient's general condition (appearance, position, nutrition,	2
consciousness, mental health)	
Assessment of vital body functions (body temperature, respiration rate and type,	2
pulse rate, arterial and venous pressure)	
Evaluation of patients with emergency cases and injuries	2
Documentation of anthropometric data (height, weight, BMI, head	
circumference, waist, and hip circumference)	
Examination of skin and mucous membranes (signs of anemia, cyanosis,	2
jaundice, edema, dehydration)	
Evaluation of indications and contraindications for surgical intervention	1
Assessment of attention, mentality (form and content), perception, emotional and	2
psychomotor behavior	
Assessment of decision-making ability of a patient with cognitive impairment	1
Examination (judicial evaluation) of a patient under the influence of alcohol or a	1
psychedelic substance	

The expected outcomes include:

- 1. **Medical Knowledge.** Students will achieve an understanding of established and evolving biomedical, clinical, social, behavioral, and populative sciences and demonstrate the ability to identify and evaluate new information with relevance and use these knowledge to solve clinical problems and scientific research.
- 2. **Critical Thinking and Research.** Students will be able to evaluate, analyze, and apply knowledge, identify gaps in their own learning, focus on personal growth and lifelong learning, and participate in research to advance knowledge and serve to alleviate human suffering.
- 3. **Medical and preventive treatment for patients.** Students will demonstrate the ability to provide evidence-based care to patients, including prevention, diagnostics, and

treatment of disease and health promotion, and teamwork effectively with other health care staff.

- 4. **Professionalism.** Students must demonstrate a dedication to the highest standards of professional responsibility, honesty, and accountability; adherence to ethical principles; self-awareness; and moral judgment with respect to patients, colleagues, and the community.
- 5. **Interpersonal and communication skills.** Students will demonstrate effective verbal, non-verbal, and written communication skills as well as forming mutually trusting relationships with patients, families, and colleagues.
- 6. **Organizational and social determinants of health care.** Students will demonstrate an awareness and ability of a systems approach to diagnostic and health care. Recognizing the social determinants of health and healthcare, they will demonstrate tolerance for diverse populations, whether based on ethnicity, culture, gender, economic status, or sexual orientation.
- 7. **Organization and management.** Students will demonstrate an awareness of health systems organization, their role and place at the community level, mechanisms for intersectoral collaboration in strengthening and improving
 - 8. local health

Abbreviations and acronyms

KR – Kyrgyz Republic

GKR - Government of the Kyrgyz Republic

MES – Ministry of Education and Science;

HEI – higher education institution;

SES HPE - State educational standard of higher professional education

EP – educational program;

MEP-main educational program;

GEC - General education courses

BC – basic courses;

MC – major courses;

Curriculum – curriculum;

WC –working curriculum;

УМК – Educational-methodical complex;

MC – methodological council

GSC – general scientific competencies

IC - instrumental competencies

IS – information system

KMB - Competence model of a graduate

PA - professional activity

PC – professional competencies

ER – educational results

SPC - socio-personal and general cultural competencies

AW – academic work

Agreed:

Employer representatives:

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- 1. Iqbal Talha Iqbal
- 2. Wizna Tariq Mahmood
- 3. Shahroz Muhammad Abbas
- 4. Abadin Zain Ul Shafi
- 5. Nasir Farzana Ahmad

Students: