## Summary of the working program of the academic discipline

## « BASICS OF TRANSPLANTOLOGY»

General Educational Program of higher education (<u>specialist's degree programs</u>) 31.05.01 General Medicine

Department: FACULTY OF SURGERY AND TRANSPLANTOLOGY

- **1. The purpose of mastering the discipline:** participation in the formation of competencies UC-1, UC-2, UC-3, UC-9, PC-1, PC-2, PC-4, PC-5, PC-6, PC-7, PC-8, PC-14
- 2. Position of the academic discipline in the structure of the General Educational Program (GEP).
  - **2.1.** The discipline refers to the core part of Block 1 of GEP HE
- 3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general  $\,$ 

professional (GPC) or/and professional (PC) competencies

	( )	1 C) 01/and professions	(- v) v · · · · · · · · · · · · · · · · ·	As a result	of mastering	the discipline,
	C	The content of the	Code and name of		e students sho	
№	Competen ce code	competence (or its part)	the competence acquisition metric	know	be able to	possess
1.	UC-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	IUC 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUC 1.2 Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience IUC 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems	methods of critical analysis and evaluation of modern scientific achievement s; basic principles of critical analysis	gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience	Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems
2.	UC-2	Able to manage the project at all stages of its life cycle	IUC 2.1 Knows: methods of presenting and describing the results of project activities; methods, evaluation and evaluation of the results of the project;	methods for presenting and describing the results of project activities; methods,	prove practical and theoretical significance of the results obtained; check and analyze the	Has practical experience in: project management in the field relevant to professional activity;

consideration of the issue of forming a project within the framework of the problem under consideration; basic requirements for project work and evaluation criteria consideration of the project within the framework of the designated problem, formulation of the goal, objectives, relevance, perception (scientific, practical, methodological skills in drawing up plans and schedules for the implementation of the project as a whole plan and monitoring its implementation; qualities of a constructive overcoming speed rationale, methods and requirements for project work IUC 2.2 Able to: substantiate the practical and theoretical significance of the results obtained; check and analyze project documentation; predict the development of processes in the design professional area; put forward innovative ideas and non-standard approaches to their implementation in order to implement the project; calculate the qualitative and quantitative results, the timing of the project work IUC 2.3 Has practical experience in: project management in the field, consistent with her professional activities; distributing tasks and encouraging others to achieve goals; managing the development of the technical specifications of the project, managing the

criteria and parameters for evaluating the results of project implementati on; principles, methods and requirements for the project work

design documentati on; predict the development of processes in the project professional field; put forward innovative ideas and non-standard approaches to their implementati on in order to implement the project; calculate qualitative and quantitative results, deadlines of project work execution

distribution of tasks and encouraging others to achieve goals; management development of technical specifications of the project, management implementation of profile project work; participation in development technical specifications of the project and the project implementation program in the professional field

	<b>,</b>	<del>,</del>				
			implementation of core			
			design work. Has			
			experience of			
			participating in the			
			development of project			
			specifications and			
			programs results of project			
			activities.			
			and others depending			
			on the type of project),			
			expected results and			
			possible areas of their			
			application; be able to			
			see the image of the			
			result of the activity and			
			plan the follower!!			
			number of steps to			
			achieve this result;			
			predict problem situations and risks in			
			project activities.			
			disagreements and			
			conflicts.			
			project implementation			
			in the professional field			
3.	UC-3	Able to organize	IUC 3.1 Knows:	the problems	determine	Has practical
		and manage the	problems of selection of	of selecting	the	experience in:
		work of the team,	an effective team; basic	an effective	management	participation in
		*	conditions for effective	team; basic	style for the	the
		developing a team	teamwork;	conditions	effective	development of
		strategy to achieve	fundamentals of	for effective	team work;	a team work
		the goal	strategic human resource management,	teamwork;	develop a	strategy;
			normative legal acts	the basics of	team	participation in
			concerning the	strategic	strategy;	teamwork, role
			organization and	human	apply the	distribution in
			implementation of	resource	principles	the team
			professional activities;	management,	and methods	interaction
			models of	regulatory	of organizing	
			organizational behavior,	legal acts	team	
			factors in the formation	concerning	activities	
			of organizational	the		
			relations, strategies and	organization		
			principles of teamwork, the main characteristics	and		
			of the organizational	implementati		
			climate and the	on of		
			interaction of people in	professional		
			the organization	activities;		
			IUC 3.2 Able to:	organization		
			determine the	al behavior		
			management style for	models,		
			effective team work;	factors of formation of		
			develop a team			
			strategy; apply the	organization al		
			principles and methods of organizing team	relationships;		
			of organizing team activities	strategies		
			IUC 3.3 Has practical	and		
1			experience:	principles of		
1	l	İ	-			
			participation in the	teamwork,		

			development of a team work strategy; participation in team work, distribution of roles in the conditions of team interaction	the main characteristic s of the organization al climate and		
			of team interaction	interaction of people in the organization		
4.	UC-9	Able to use basic defectological knowledge in social and professional spheres	IUC 9.1 Knows: the basics of defectology IUC 9.2 Able to: establish effective communication and create a tolerant environment when working with people with disabilities and people with disabilities IUC 9.3 Имеет практический опыт: медико- социальной и организационн ой поддержки (сопровождени я) лиц с ограниченными возможностями здоровья и инвалидов при получении ими медицинской помощи	the basics of defectology	the basics of defectology	Has practical experience in: medical, social and organizational support of people with disabilities when they receive medical care
5.	PC-1	Able to assess the condition of a patient requiring medical treatment in the emergency form	IPC 1.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; methodology for collecting complaints and anamnesis; physical examination technique (examination, palpation, percussion, auscultation); a list of laboratory and instrumental research methods for assessing the condition, the main medical indications for conducting research and interpreting the results in patients requiring medical care in emergency forms IPC 1.2 Able to: identify clinical signs of conditions requiring emergency or emergency medical care	etiology, pathogenesis and pathomorpho logy, clinical aspect, differential diagnosis, clinical features, complication s and outcomes of diseases of internal organs; methodology for collecting complaints and anamnesis; physical examination technique (examination , palpation, percussion, auscultation) ; a list of	identify clinical signs of conditions requiring medical treatment in the emergency form	assessment of the patient's condition requiring medical care in emergency or emergency forms

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			IPC 1.3 has methods for	laboratory		
			assessing the condition	and		
			of a patient requiring	instrumental		
			medical care in	research		
			emergency or	methods for		
			emergency forms	assessing the		
				condition,		
				the main		
				medical		
				indications		
				for		
				conducting		
				research and		
				interpreting		
				the results of		
				patients		
				requiring		
				medical care		
				in the		
				emergency		
				form		
6.	PC-2	Able to recognize	IPC 2.1Knows:	etiology,	identify	provision of
0.	102	_	etiology, pathogenesis	pathogenesis	clinical signs	emergency
		conditions arising	and pathomorphology,	and	of conditions	medical care to
		from sudden acute	clinical picture,	pathomorpho	requiring	patients with
		diseases,	differential diagnosis,	logy, clinical	emergency	sudden acute
		exacerbation of	course features,	picture,	medical care;	diseases,
		chronic diseases	complications and	differential	identify	conditions,
			outcomes of diseases of	diagnosis,	conditions	exacerbation of
		without obvious	internal organs;	features of	requiring	chronic diseases
		signs of a threat to	methodology for	the course,	emergency	without obvious
		the patient's life and	collecting complaints	complication	medical care,	signs of a threat
		requiring urgent	and anamnesis from	s and	including	to the patient's
		medical care,	patients (their legal representatives);	outcomes of	clinical signs	life; state
		1	method of physical	diseases of	of sudden	recognition.
		recognize	examination of patients	internal	cessation of	posing a threat
		conditions that pose	(examination,	organs;	blood	to the life of the
		a threat to the	palpation, percussion,	methods of	circulation	patient,
		patient's life	auscultation): a list of	collecting	and	including
		including	laboratory and	complaints	respiration	conditions of
			instrumental research	and	- copilation	clinical death
		conditions of	methods for assessing	anamnesis in		(stopping the
		clinical death	the patient's condition,	patients		vital functions
		(stopping vital	the main medical	(their legal		of the human
1		functions of the	indications for	representativ		body (blood
		human body (blood	conducting research and	es); methods		circulation and /
		,	interpreting the results:	of physical		or respiration),
		circulation and/or	clinical signs of a	examination		requiring
		respiration),	sudden cessation of blood circulation and /	of patients		emergency
		requiring the	or breathing	(examination		medical care;
		provision of	IPC 2.2 Able to:	, palpation,		providing
		emergency medical	identify clinical signs of	percussion,		emergency
			conditions requiring	auscultation)		medical care to
		care	emergency medical	; a list of		patients in
			care; identify conditions	methods of		conditions that
			requiring emergency	laboratory		pose a threat to
			medical care, including	and		the patient's
			clinical signs of sudden	instrumental		life, including
			cessation of blood	investigation		clinical death
				mvestigation		cimical death

7. PC-4  Able to use medicines and medical devices for providing medical care in emergency care in emergency and an angle of the providing medical care in emergency and angle of the parallel of the main medical indications for conducting research and interpreting the results; clinical signs of sudden cessation of blood circulation and/or respiration    PC-4				
7. PC-4  Able to use medicial and or respiration medical care in emergency forms    Able to use medicial care in emergency forms   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic   PC-4.2 Able to: PC-4.2 Able				
The main medical indications for conducting research and interpreting the results; clinical signs of sudden cessation of blood circulation and/or respiration  The providing medical care in emergency forms    PC-4			breathing the patient's	vital functions
T. PC-4  Able to use medicines and medical care in emergency forms    PC-4   Able to use medicines and medical devices for providing medical care in emergency forms   PC-4.2 Able to perform measures to provide medical care in ungent and emergency forms; basic   PC-4.2 Able to provide medical care in ungent and emergency forms; basic   PC-4.2 Able to provide medical care in ungent and emergency forms; basic   PC-4.2 Able to provide medical care in ungent and emergency forms; basic   PC-4.2 Able to provide medical care in ungent and emergency forms; basic   PC-4.2 Able to provide medical care in ungent and emergency forms; basic   PC-4.2 Able to provide medical care in the main medical indications in and/or respiration   Prescribe medicines, medical medical care in medical care in diseases and conditions in accordance with the current procedures of providing medical care, clinical picture of the disease in procedures of providing medical care, clinical procedures for providing			condition,	of the human
7. PC-4  Able to use medicines and medical devices for providing medical care in emergency forms  PC 4.2 Able to use medicines and medical devices for providing medical care in emergency forms  PC 4.2 Able to use medicines and medical devices for providing medical care in emergency forms  PC 4.2 Able to use medicines and medical devices for providing medical care in emergency forms  Able to use medicines and medicines and medicines of operation of devices for external electropulse therapy (defibrillation); rules for performing external electropulse therapy (defibrillation) in case of blood circulation and / or respiration  PC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  medical mindications for conducting research and interpreting the results; clinical signs of sudden cessation of blood circulation and/or respiration methods of using medicines, medical devices for device				
7. PC-4  Able to use medicines and medical devices for providing medical care in emergency forms  Toms  Able to use medicines and medical devices for providing medical care in emergency forms  Able to use medicines and medical devices for providing medical care in emergency forms  Able to use medicines and medical devices for providing medical care in emergency forms  The part of the providing medical care in emergency forms and provide medical care in emergency forms and provide medical care in emergency forms; basic  IPC 4.1 Knows: basic cardiopulmonary respiration  The part of the patient's life, including clinical with the current procedures accordance with the current procedures for providing medical care, urgent and emergency forms; basic  Indications for conducting research and interpreting the results; clinical signs of sudden cessation of blood circulation and/or respiration)  The provision of emergency medical care to methods of using medical care to provide medical care in emergency with the current procedures accordance with the current procedures for providing medical care, urgent and emergency forms; basic  The part of the results; clinical signs of sudden cessation of blood circulation and/or respiration)  The provision of emergency medical care to accordance with the current procedures accordance with the p				• '
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Able to use medicines and medical devices for providing medical care in emergency forms    PC-4			and/ or	
Able to use medicines and medical devices for providing medical care in emergency forms    PC-4			respiration	
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care in emergency forms  electropulse therapy (defibrillation); rules for performing external electropulse therapy (defibrillation) in case of sudden cessation of blood circulation and/ or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  electropulse therapy (defibrillation); rules for performing external electropulse therapy (defibrillation); rules diseases and conditions in accordance with the current procedures accordance with the current procedures for providing medical care, current circulation and/or respiration)  The devices for diseases and conditions in account the diseases and conditions in accordance with the patient's life, including clinical current procedures accordance with the current procedures accordance with the current procedures accordance current procedures recommenda for providing medical care, for providing respiration)			nroviding medical   c.i.; c.   1   medicals,	-
forms  (defibrillation); rules for performing external electropulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  (defibrillation); rules for performing external electropulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  (defibrillation); rules diseases and conditions in accordance with the current disease in functions of the functions of the disease in functions of the functi			care in emergency sleetworn less thorons in edical taking into	
for performing external electropulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic diseases and conditions in accordance with the current disease in functions of the current procedures accordance with the conditions in accordance with the picture of the disease in functions of the funct			1 ucvices for account the	pose a threat to
electropulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  electropulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration procedures for providing medical care, clinical picture of the disease in functions of the disease in human body (blood circulation provide medical care, circulation procedures for providing medical care, respiration)				the patient's
defibrillation) in case of sudden cessation of blood circulation and / or respiration perform measures to provide medical care in urgent and emergency forms; basic accordance with the current with the current disease in functions of the disease in accordance with the current disease in functions of the disease in accordance with the current procedures medical care, clinical procedures circulation and/or respiration)				life, including
of sudden cessation of blood circulation and / or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  with the current disease in accordance with the current procedures or recommenda for providing picture of the disease in functions of the human body (blood circulation accordance with the current procedures or current procedures and/or respiration)			electropulse therapy accordance clinical	_
blood circulation and / or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  ourrent procedures functions of the human body (blood circulation accordance with the circulation accordance with the circulation accordance with the circulation accordance with the circulation and/or respiration)			(defibrillation) in case with the priority of the	
or respiration IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  procedures for providing medical care, clinical procedures with the current circulation procedures medical care, procedures for providing procedures with the circulation and/or respiration)			of sudden cessation of	. 11 0
IPC 4.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic  for providing medical care, clinical procedures procedures for providing medical care, procedures for providing medical care, procedures for providing procedures for providing medical care,			biood circulation and /	
perform measures to provide medical care in urgent and emergency forms; basic medical care, clinical procedures emedical care, clinical procedures for providing medical care, medical care, current procedures and/or respiration)			of respiration 1	•
provide medical care in urgent and emergency forms; basic clinical procedures recommenda for providing forms; basic tions medical care,			11 0 112 11010 101	(blood
provide medical care in urgent and emergency forms; basic clinical recommenda for providing forms; basic tions medical care,			perform measures to medical care, current	circulation
urgent and emergency recommenda for providing respiration) forms; basic tions medical care,				and/or
forms; basic tions medical care,				respiration)
				± '
cardiopannionary (treatment chinical				
process) on recommendation			process) on Teesmineness	
combination with the provision tions			the provision tions	
electrical impulse of medical (treatment				
therapy (defibrillation) care taking protocols) on			therapy (defibrillation)   care taking   protocols) or	
into account the medical				
the standards   care delivery				
of medical in emergency				,
care in the or urgent				
provision of forms			-	
medical care				
in emergency			in emergency	
or urgent			or urgent	
forms; the				
mechanism				
of action of				
drugs,				
medical				
devices,			devices,	
medical			medical	
indications				
and				
contraindicat				
ions to their			ions to their	

				use; complication s caused by		
				their use; principles of operation of devices for		
				external electric pulse therapy (defibrillatio		
				n); rules for performing external electric pulse		
				therapy (defibrillatio n) in case of		
				sudden cessation of blood circulation		
				and / or respiration		
8.	PC-5	Able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient	IPC 5.1 Knows: Legislation of the Russian Federation in the field of health care, regulatory legal acts and other documents that determine the activities of medical organizations and medical workers; method of collecting complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; regularity and functioning of a healthy human body and	respiration the legislation of the Russian Federation in the field of health care, regulations and other documents that determine the activities of medical organizations and healthcare workers; method of collecting complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination	collect complaints, anamnesis of life and disease of the patient and analyze the information received; conduct a complete physical examination of the patient (examination , palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures	collection of complaints, anamnesis of life and disease of the patient; a complete physical examination of the patient (examination, palpation, percussion, auscultation); formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of the patient
			mechanisms for ensuring health from the standpoint of the theory of functional systems; features of the regulation of the functional systems of	of the patient (examination , palpation, percussion, auscultation) ; etiology, pathogenesis	incl. modern digital technologies	

				the regulation of the functional systems of the human		
				body in pathological processes; methods of laboratory		
				and instrumental examinations for assessing the state of health,		
				medical indications for conducting investigation s, rules for		
				interpreting		
9.	PC-6	Able to send a	IPC 6.1 Knows: general	their results general issues of	justify the need and	referral of a patient for
1	PC-0	natient to	issues of organizing	188ues 01	necu anu	patient for
	PC-0	patient to laboratory,	issues of organizing medical care for the population, methods of	organizing medical care	scope of laboratory	laboratory examination if

consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on providing medical care taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care

assess the state of health, medical indications for conducting studies, rules for interpreting their results; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care IPC 6.2 Able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations to specialist doctors; determine medical indications for the provision of an ambulance, including other specialized ambulance, medical care

methods of laboratory and instrumental examinations to assess the state of health, medical indications for conducting examinations , rules for interpreting their results; procedures for the provision of medical care, clinical recommenda tions (treatment protocols) on the provision of medical care, standards of medical care

patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care

indication in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; referral of a patient for an instrumental examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendatio ns and (treatment protocols) on the provision of medical care. taking into account the standards of medical care; referral of a patient for a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care. clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the

10. PC-7  Able to: make a differential diagnosis with other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical accurred.  By C7.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course features, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental studies for assessing the state of health, medical indications for	patient for specialized other medical care in an inpatient setting or in a day hospital setting, if medically indicated, in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of care differential diagnosis with other diseases/conditions, including emergencies: diagnosis based on the current international statistical classification of diseases and related health problems (ICD)	decialized ther medical are in an apatient setting in a day cospital setting medically adicated, in ecordance with the cordance with the provision of the provi
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	examination of the patient; interpret data obtained during consultations of the	ICD	data obtained during	
	patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases		consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases	
treatment plan for a disease or condition and prescribe medicine, medical devices, therapeutic nutrition and non-drug treatment taking into account the diagnosis, age and clinical picture in accordance with current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care and to evaluate the effectiveness and safety of the use of medicines, medical devices, therapeutic nutrition and other methods of treatment	IPC 8.1 Knows: modern methods of using medicines, medical devices and clinical nutrition for diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical recommendations and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; mechanism of action of drugs medical products and medical nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions in a patient in accordance with the current procedures for the provision of medical care, clinical guidelines(treatment protocols) on the provision of medical care; mechanism of action of non-drug treatment protocols) on the provision of medical care; mechanism of action of non-drug treatment; medical indications and contraindications to its appointment; side effects, complications caused by its use IPC 8.2 Able to: draw up a treatment plan for	modern methods of using medicines, medical devices and therapeutic nutrition in diseases and conditions of the patient in accordance with the current procedures for medical care, clinical recommenda tions (treatment protocols) on the provision of medical care taking into account the standards of medical care; the mechanism of action of medicines, medical devices and therapeutic nutrition, medical indications and contraindicat ions to their use; complication s caused by their use; modern	draw up a treatment plan for the disease and the patient's condition taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommenda tions (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe medications, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease in	development of a treatment plan for a disease or condition, taking into account the diagnosis, age and clinical picture in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care; taking into account the standards of medical care: prescribing drugs, medical devices and clinical nutrition considering the diagnosis, age and clinical presentation of the disease and in accordance with the current procedures for the provision of medical care. clinical guidelines and (treatment protocols) on the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, of m

12. PC-14	Able to assess the	the disease and the patient's condition, taking into account the diagnosis, the age of the patient, the clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe medicines, medical devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe non-pharmacological treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care,	methods of non-drug treatment of diseases and conditions of the patient in accordance with current medical care procedures, clinical recommenda tions (treatment protocols) on the provision of medical care taking into account the standards of medical care; action mechanism of non-drug treatment; medical indications and contraindicat ions to its prescription; side effects, complication s caused by its use	accordance with the current medical care procedures, clinical recommenda tions (treatment protocols) on the provision of medical care taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommenda tions (treatment protocols) on issues related to the provision of medical care taking into account the standards of medical care taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition monitor the	taking into account the standards of care: prescribing non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; assessment of the effectiveness and safety of the use of medicines, medical devices, clinical nutrition and other methods of treatment
12, PC-14	Able to assess the effectiveness and safety of medical rehabilitation	Measures for the medical rehabilitation of the patient, medical indications and	the medical rehabilitation of the patient,	implementati on and evaluate the effectiveness	of measures for the medical rehabilitation of the patient,

measures of the patient in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the providing medical care taking into account the standards of medical care

contraindications for their implementation, taking into account the diagnosis in accordance with the current procedures for the provision of medical care, clinical recommendations and (treatment protocols) on the provision of medical care, taking into account the standards of medical care; medical indications and contraindications to the appointment of sanatorium-resort treatment as a stage of the patient's medical rehabilitation; features of medical rehabilitation of elderly and senile patients IPC 14.2 Can: monitor the implementation and evaluate the effectiveness and safety of rehabilitation measures, including the implementation of an individual rehabilitation or habilitation program for people with disabilities, taking into account the diagnosis in accordance with the current procedures for the provision of medical care, clinical guidelines and (treatment protocols) on the provision of medical care, taking into account the standards of medical care

medical indications and contraindicat ions for their implementati on taking into account the diagnosis accordance with the current procedures for the provision of medical care, clinical recommenda tions (treatment protocols) on the provision of medical care, taking into account the standards of medical care; medical indications and contraindicat ions for sanatoriumspa treatment as a stage of medical rehabilitation of the patient; features of medical rehabilitation

of elderly

and senile

patients

including the implementation of an individual rehabilitation or habilitation program for disabled people, in accordance with the current procedures for the provision of medical care, clinical recommendatio ns and (treatment protocols) on the provision of medical care, taking into account the standards of medical care

and safety of

rehabilitation

implementin

rehabilitation

program or

habilitation

of disabled

taking into

account the

diagnosis in

accordance

procedures

for medical

care, clinical

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the medical

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## 4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is 1 CU (36 AH)

Type of educational work	Labor i	ntensity	Labor intensity (A	AH) in semesters
	volume in credit units	volume in academic		
	(CU)	hours (AH)	11	
Classroom work, including				
Lectures (L)	0,4	4	4	
Laboratory practicum (LP)*				
Practicals (P)	0,5	18	18	

Seminars (S)					
Student's individual work (SIW)	0,4	14	14		
Mid-term assessment					
credit/exam (specify the type)					
TOTAL LABOR INTENSITY	1	36	36		

5. Sections of the academic discipline and competencies that are formed

2. Sections of the academic discipline and competences that are formed		
№	Competence code	Section name of the discipline
1.	UC- 1,2,3,9 GPC- 1,4,5,7 PC-1,2,4, 5,6,7,8,14	Introduction to the subject. History of transplantation. Legal framework and organization of transplant care. Organ donation.
2.	UC- 1,2,3,9 GPC- 1,4,5,7 PC-1,2,4, 5,6,7,8,14	Liver transplant.  Kidney transplant.  Basic concepts and schemes of immunosuppressive therapy.
3.	UC- 1,2,3,9 GPC- 1,4,5,7 PC-1,2,4, 5,6,7,8,14	Transplantation of the pancreas, heart, lungs. Cell technologies and perspectives of transplantation