

Summary of the working program of the academic discipline

« INTERNAL DISEASES. CLINICAL PHARMACOLOGY »

General Educational Program of higher education (specialist's degree programs)

31.05.03 Dentistry

Department: ENDOCRINOLOGY AND INTERNAL MEDICINE

1. The purpose of mastering the discipline “Internal diseases. Clinical pharmacology”.

As a result of mastering the discipline program, a graduate should have universal, general professional and professional competencies: UC – 1,4,5; GPC – 1, 5, 6, 9; PC – 4, 5, 6, 7, necessary to achieve work functions in accordance with the Professional standard General practitioner

2. Position of the academic discipline in the structure of the General Educational Program (GEP).

2.1. The discipline “Internal diseases. Clinical pharmacology” refers to the core part of Block 1 of GEP HE Б1.Б25. The discipline is taught in IV, V, VI semester/ 2-3 year of study.

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

№	Competence code	The content of the competence	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	Have practical experience
1.	UC-1	Student is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions	MUC 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis MUC 1.2 Is 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 actions, experiment and experience MUC 1.3 Has practical experience: research of the problem of professional activity with the use of analysis, synthesis and other methods of intellectual activity; development of an action strategy for solving professional problems	methods of critical analysis and evaluation of modern scientific achievements; 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 actions, experiment and experience	research of the problem of professional activity with the use of analysis, synthesis and other methods of intellectual activity; development of an action strategy for solving professional problems
2.	UC - 4	Student is able to apply modern communication	MUC 4.1 Knows: the basics of oral and written	basics of oral and written	express your thoughts in	in writing texts in Russian and

		technologies, including in a foreign language, for academic and professional interaction	communication in Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information and communication technologies MUC 4.2 Can: express your thoughts in Russian and a foreign language in business communication MUC 4.3 Has practical experience in writing texts in Russian and foreign languages related to professional activity; experience in translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages	communication in Russian and foreign languages, functional styles of the native language, requirements for business communication, modern means of information and communication technologies	Russian and a foreign language in business communication	foreign languages related to professional activity; experience in translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages
3.	UC-5	Student is able to analyze and take into account the diversity of cultures in the process of intercultural interaction	MUC 5.1 Knows: the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization and the organization. MUC 5.2 will be able to: present professional information competently and in an accessible manner in the process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, confessional characteristics MUC 5.3 Has practical experience in: productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction	the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization and the organization	present professional information competently and in an accessible manner in the process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, confessional characteristics	productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction

4.	GPC-1	is able to implement moral and legal norms, ethical and deontological principles in professional activity	GPCM 1.1 Knows: fundamentals of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity GPCM 1.2 is able to: apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving professional tasks; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives) GPCM 1.3 Has practical experience: solving standard tasks of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of legal aspects of medical activity	fundamentals of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity	apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving professional tasks; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representative)	solving standard tasks of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of legal aspects of medical activity
5.	GPC-5	is able to evaluate morpho functional, physiological states and pathological processes in the human body to solve professional tasks Information literacy	GPCM 5.1 Knows: anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems GPCM 5.2 is able to: evaluate the basic morpho functional data, physiological states and pathological processes in the human body GPCM 5.3. Has practical experience: evaluation of basic morpho functional data, physiological conditions and pathological processes in the human body when solving professional tasks	anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems	evaluate the basic morpho functional data, physiological states and pathological processes in the human body	evaluation of basic morpho functional data, physiological conditions and pathological processes in the human body when solving professional tasks
6.	GPC-6	is able to organize patient care, provide primary health care, ensure the organization of work and professional decision-	GPC-6. 1 Knows: methods of taking history; methods of physical examination of patients (inspection, palpation, percussion,	methods of taking history; methods of physical examination of patients (inspection,	recognize conditions that require healthcare delivery in an emergency	assessment the condition requiring healthcare delivery in an emergency form,

	<p>making in case of medical emergency on the prehospital stage, in the conditions of emergency situations, epidemics and in centers of mass destruction</p>	<p>auscultation); principles and methods of medical care delivery to patients in urgent conditions, in emergency situations, epidemics and in centers of mass destruction in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; clinical signs of major emergency conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of work in centers of mass destruction; principles of organization of patient care, first aid treatment GPC-6. 2. able to: recognize conditions that require healthcare delivery in an emergency form, including in the conditions of emergencies, epidemics and in the centers of mass destruction, requiring medical assistance in an emergency form; organize the work of medical personnel in emergency situations, epidemics and in centers of mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including (blood circulation and (or) respiration); use medicines and medical products when providing medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment; organize patient care, provide primary health care GPC-6. 3. Has practical experience in: assessment the condition requiring healthcare delivery in an emergency form,</p>	<p>palpation, percussion, auscultation); principles and methods of medical care delivery to patients in urgent conditions, in emergency situations, epidemics and in centers of mass destruction in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; clinical signs of major emergency conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of work in centers of mass destruction; principles of organization of patient care, first aid treatment</p>	<p>form, including in the conditions of emergencies, epidemics and in the centers of mass destruction, requiring medical assistance in an emergency form; organize the work of medical personnel in emergency situations, epidemics and in centers of mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including (blood circulation and (or) respiration); use medicines and medical products when providing medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment; organize patient care, provide primary health care</p>	<p>including in emergency situations, epidemics and in the centers of mass destruction; definition of life-threatening conditions, including the state of clinical death (arrest of vital important functions of the human body (blood circulation and (or) breathing) requiring medical care in the emergency form; medical care delivery in emergency form to patients in conditions, constituting life-threatening situations including clinical death (arrest of vital functions of human body (blood circulation</p>
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			including in emergency situations, epidemics and in the centers of mass destruction; definition of life-threatening conditions, including the state of clinical death (arrest of vital important functions of the human body (blood circulation and (or) breathing) requiring medical care in the emergency form; medical care delivery in emergency form to patients in conditions, constituting life-threatening situations including clinical death (arrest of vital functions of human body (blood circulation			
7.	GPC-9	is able to implement the principles of quality management in the professional activity	GPCM 9. 1.Knows: the basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities 9.2 Able to: analyze the quality of medical care to dental patients; ensure internal quality control and safety of medical activities; organize work and monitor the performance of official duties of the medical personnel 9.3 Has practical experience in: carrying out work to ensure internal quality control of medical care for dental patients and the safety of medical activities	the basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities	analyze the quality of medical care to dental patients; ensure internal quality control and safety of medical activities; organize work and monitor the performance of official duties of the medical personnel	carrying out work to ensure internal quality control of medical care for dental patients and the safety of medical activities
8.	PC-4	is able to use medicines and medical devices for providing medical care in emergency forms	PC-4. 1 Knows: modern methods of using medicines, medical devices for diseases and conditions in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the	modern methods of using medicines, medical devices for diseases and conditions in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of	prescribe medicines, medical devices taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care,	using medicines and medical devices for providing medical care in emergency forms

			<p>standards of medical care in the provision of medical care in emergency or urgent forms; the mechanism of action of drugs, medical devices, medical indications and contraindications to their use; complications caused by their use; principles of operation of devices for external electric pulse therapy (defibrillation); rules for performing external electric pulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration</p> <p>2. Able to: prescribe medicines, medical devices taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the medical care delivery in emergency or urgent forms</p>	<p>medical care taking into account the standards of medical care in the provision of medical care in emergency or urgent forms; the mechanism of action of drugs, medical devices, medical indications and contraindications to their use; complications caused by their use; principles of operation of devices for external electric pulse therapy (defibrillation); rules for performing external electric pulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration</p>	<p>clinical recommendations (treatment protocols) on the medical care delivery in emergency or urgent forms</p>	
9.	PC-5	<p>is able to take complaints, history of present illness, personal history, perform a complete physical examination of the patient (inspection, palpation, percussion, auscultation), formulate a initial diagnosis and make a plan for laboratory and instrumental investigation of the patient</p>	<p>PCM 5.1 Knows: The legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activities of medical organizations and medical workers; methods of taking history, methods of complete physical examination of the patient (inspection, palpation, percussion, auscultation); etiology, pathogenesis and path morphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; regularities of functioning of a healthy human body and mechanisms of</p>	<p>the legislation of the Russian Federation in the field of health protection, regulatory legal acts and other documents defining the activities of medical organizations and medical workers; methods of history taking, method of physical examination of the patient (inspection, palpation, percussion, auscultation); etiology, pathogenesis and path morphology,</p>	<p>to take complaints, history of present illness, personal history; perform a complete physical examination of the patient (inspection, palpation, percussion, auscultation), determine the order of volume, content and sequence of diagnostic measures and interpret its results;</p>	<p>has a practical experience to take complaints, history of present illness, personal history; perform a complete physical examination of the patient (inspection, palpation, percussion, auscultation), determine the order of volume, content and sequence of diagnostic measures and interpret its results</p>

			<p>ensuring health from the standpoint of the theory of functional systems; features of regulation of functional systems of the human body in pathological processes; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results</p> <p>PCM 5.2 is able to: collect complaints, anamnesis of the patient's life and illness and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the order of volume, content and sequence of diagnostic measures</p>	<p>clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; regularities of functioning of a healthy human body and mechanisms of ensuring health from the standpoint of the theory of functional systems; features of regulation of functional systems of the human body in pathological processes; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results</p>		
10	PC- 6	<p>is able to refer the patient for laboratory, instrumental investigation, for consultation with specialist doctors if there are medical indications in accordance with the current procedures for providing medical care, on issues of providing medical care taking into account the standards of medical care, as well as to refer the patient for specialized medical care in inpatient conditions or in a day hospital when availability of medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical</p>	<p>PCM 6.1 Knows: general issues of the organization of medical care to the population methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care</p> <p>PCM 6.2 is 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 with specialist doctors; determine medical</p>	<p>general issues of the organization of medical care to the population methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; procedures for providing medical care, clinical recommendations (treatment</p>	<p>substantiate 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 with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care</p>	<p>has practical experience 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 with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care</p>

		care, taking into account the standards of medical care	indications for the provision of emergency, including emergency specialized, medical care			
11	PC-7	is able to carry out differential diagnostics with other diseases/conditions, including urgent ones, to make a diagnosis taking into account the current international statistical classification of diseases and health-related problems (ICD)	PCM 7.1 Knows: etiology, pathogenesis and path morphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results; PCM 7.2 is able to: analyze the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during the consultations of the patient by specialist doctors; carry out differential diagnosis of diseases internal organs from other diseases	etiology, pathogenesis and path morphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental studies to assess the state of health, medical indications for conducting research, rules for interpreting their results;	the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during the consultations of the patient by specialist doctors; carry out differential diagnosis of diseases internal organs from other diseases	has practical experience to analyze the results of the patient's examination, if necessary, justify and plan the scope of additional studies; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during the consultations of the patient by specialist doctors; carry out differential diagnosis of diseases internal organs from other diseases

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

Total labor intensity of the discipline is 9 CU (324 AH)

Type of educational work	Labor intensity		Labor intensity (AH) in semesters		
	volume in credit units (CU)	volume in academic hours (AH)			
Classroom work, including	4,8	172	52	76	44
Lectures (L)	1,0	36	10	14	12
Clinical Practical (P)	3,8	136	42	62	32
Student's individual work (SIW)	3,2	116	38	50	28
Mid-term assessment	1	36	-	-	Экз.
TOTAL LABOR INTENSITY	9	324	90	126	108

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

№	Competence code	Section name of the discipline
1.	UC-1,4,5 GPC-1,5,6,9 PC-5	Introduction to propaedeutics of internal diseases. Methods of clinical examination of a patient. Taking history. Physical methods.
2.	UC-1,4 GPC- 1,5 PC-5,6.7	Methods of clinical examination of the patient with diseases of internal organs: respiratory system, circulatory system, digestive, kidneys and urinary system, hematopoetic, endocrine glands, musculoskeletal system.
4.	UC-1,4,5 GPC- 1,5,9 PC-4,5,6.7	Diseases of internal organs. The respiratory system. Circulatory system. The digestive system. Kidneys and urinary system. The hemopoietic system. Endocrine system. Musculoskeletal system. Treatment of diseases of internal organs. The main pharmacological groups of drugs.
5.	UC-1,4,5 GPC- 1,5,6,9 PC-4,5,6.7	Urgent conditions in the clinic of internal diseases