

Summary of the working program of the academic discipline

«Fundamentals of pulmonology»

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

31.05.01 GENERAL MEDICINE

Department: **ENDOCRINOLOGY AND INTERNAL MEDICINE**

1. The purpose of mastering the discipline (*participation in the formation of relevant competencies – specify the codes*): The main purpose of mastering and teaching the "Fundamentals of Pulmonology" to VI-year students is the formation of clinical (conceptual) thinking, including a professional algorithm in solving practical problems in this section of the internal medicine clinic. To form a medical professional behavior in a therapeutic clinic based on deontological principles and ethical norms. To develop students' mental, sensory and motor skills necessary for an ORP doctor to perform their professional duties. To contribute to the improvement of the general culture of a medical university student.

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 the choice of a professional cycle. The discipline is studied in the 12th semester/6 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 (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	CC-1	ability to abstract thinking, analysis, synthesis			to assess the social factors affecting the state of the patient's physical and psychological health: cultural, ethnic, religious, individual, family, social risk factors (unemployment, violence, illness and death of relatives, etc.)	proper maintenance of medical documentation and interpretation of laboratory results, tools of laboratory diagnostic methods
2.	CC-5	readiness for			to assess	proper

		self-development, self-realization, self-education, use of creative potential			the social factors affecting the state of the patient's physical and psychological health: cultural, ethnic, religious, individual family, social risk factors (unemployment, violence, illness and death of relatives , etc.)	maintenance of medical documentation and interpretation of laboratory results , tools of laboratory diagnostic methods
3.	CC-7	willingness to use first aid techniques , methods of protection in emergency situations		Methods of protection in emergency situations	Provide first aid	Manipulations during first aid
4.	CC-8	willingness to work in a team, to perceive social, ethnic, confessional and cultural differences with tolerance		fundamentals of legislation Russian Federations for the protection of public health, the main regulatory and technical documents;		
5.	GPC-1	willingness to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, willingness to solve standard tasks of professional activity using information, bibliographic resources, medical		etiology, pathogenesis and preventive measures and the most common diseases; modern classification and treatment of diseases; criteria for the diagnosis of various diseases	to assess the patient's condition in order to make a decision on the need to provide him with medical care;	proper maintenance of medical records and;

		and biological terminology, information and communication technologies and taking into account the basic requirements of information security				
6.	GPC-2	readiness for communication in oral and written forms in Russian and foreign languages to solve the tasks of professional activity		terminology, using <i>uyusya</i> in professional literature	To present the clinical picture, principles of treatment and examination in Russian and English.	Written and oral speech in Russian and English to the extent sufficient for reading professional literature and communication with colleagues.
7.	GPC-4	ability and willingness to implement ethical and deontological principles in professional activity		fundamentals of legislation Russian Federations for the protection of public health, the main regulatory and technical documents;		
8.	GPC-5	ability and willingness to analyze the results of their own activities to prevent professional mistakes		etiology, pathogenesis and preventive measures and the most common diseases; modern classification and treatment of diseases; criteria for the diagnosis of various diseases	to assess the patient's condition in order to make a decision on the need to provide him with medical care;	proper maintenance of medical records and;
9.	GPC-6	readiness to maintain medical records				proper maintenance of medical

						records and;
10.	GPC-7	readiness to use basic physico-chemical, mathematical and other natural science concepts and methods in solving professional tasks		Fundamentals of biomedical statistics used to describe the results of clinical trials	Interpret and interpret the results of clinical trials on which modern clinical practice is based	The main methods of data description, evaluation of variable differences in dependent and independent groups
11.	GPC-8	readiness for medical use of medicines and other substances and their combinations in solving professional tasks		The main groups of medicinal products used in the clinic of internal diseases, their dosages, multiplicity and routes of administration	To prescribe medications for various diseases of internal organs	Methods of evaluating the effectiveness of ti and the safety of the use of medicinal products
12.	GPC-9	ability to assess morphofunctional, physiological states and pathological processes in the human body for solving professional tasks		diagnostic methods, diagnostic capabilities of methods of direct examination of the patient therapeutic profile, modern methods of clinical, laboratory, instrumental examination of patients (including endoscopic diagnostic methods, ultrasound diagnostics); criteria for the diagnosis of various diseases; clinical	determine the status of the patient: collect anamnesis, conduct a survey of the patient and/ or his relatives, conduct a physical examination of the patient (examination, palpation, auscultation, measurement of arterial pressure, determination of the properties of arterial pulse , etc.); conduct a primary examination of systems and organs: endocrine,	methods of general clinical examination I; interpretation and analysis of the results of laboratory tests, tools of laboratory diagnostic methods; the algorithm of a detailed clinical diagnosis; proper maintenance of medical records and

				picture, features of the course and possible complications of the most common diseases occurring in a typical form in various age groups;	immune, respiratory, cardiovascular, blood and hematopoietic organs of the digestive system, urinary system, musculoskeletal and joints; fill out a medical history	
13.	GPC-11	readiness for the use of medical devices provided for by the procedures for the provision of medical care		Fundamentals of the tool for laboratory diagnostics of internal diseases	To register an ECG using a portable electrocardiograph	Methods of functional diagnostics in the clinic of internal diseases
14.	PC-1	ability and readiness to implement a set of measures aimed at preserving and strengthening health and including the formation of a healthy lifestyle, prevention of the occurrence and (or) spread of diseases, their early diagnosis, identification of the causes and conditions of their occurrence and development, as well as aimed at eliminating the harmful effects on human health of environmental factors		The main methods of primary and secondary prevention and diseases of internal organs	To carry out educational work among the population and in groups of patients	Skills of conducting classes in schools for patients with diseases of internal organs
15.	PC-5	readiness to collect and analyze patient complaints, medical history data,		diagnostic methods, diagnostic capabilities of methods	determine the status of the patient: collect anamnesis,	methods of general clinical examinationI; interpretation

		examination results, laboratory, instrumental, pathoanatomic and other studies in order to recognize the condition or establish the presence or absence of the disease		of direct examination of the patient therapeutic profile, modern methods of clinical, laboratory, instrumental examination of patients (incl endoscopic radiologists Czech methods, ultrasound diagnostics); criteria for the diagnosis of various diseases; clinical picture, features of the course and possible complications of the most common diseases occurring in a typical form in various age groups;	conduct a survey of the patient and/ or his relatives , conduct a physical examination of the patient (examination, palpation, auscultation, measurement of arterial pressure, determination of the properties of arterial pulse, etc.); conduct a primary examination of systems and organs: endocrine, immune, respiratory, cardiovasculr, blood and hematopoietic organs of digestive, urinary, musculoskeletal and joints; fill out a medical history	and analysis of the results of laboratory tests, tools of laboratory diagnostic methods; the algorithm of a detailed clinical diagnosis; proper maintenance of medical records and
16.	PC-6	the ability to determine in patients the main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Health-Related Problems (ICD)		diagnostic methods, diagnostic capabilities of methods of direct examination of the patient therapeutic profile, modern methods of clinical, laboratory, instrumental examination	patient status: collect anamnesis, conduct a survey of the patient and/or his relatives, conduct a physical examination of the patient (examination, palpation, auscultation, measurement of arterial	methods of general clinical examination I; interpretation and analysis of the results of laboratory tests, tools of laboratory diagnostic methods; the algorithm of a detailed

				of patients (incl young endoscopic Czech radiologists Czech methods, ultrasound diagnostics); criteria for the diagnosis of various diseases; clinical picture, features of the course and possible complications of the most common diseases occurring in a typical form in various age groups;	pressure, determination of the properties of arterial pulse, etc.); conduct a primary examination of systems and organs: endocrine, immune, respiratory, cardiovascular, blood and hematopoietic organs of digestive, urinary, musculoskeletal and joints; fill out a medical history	clinical diagnosis; proper maintenance of medical records and
17.	PC-7	readiness to carry out the examination of temporary disability, participation in the medical and social examination, the statement of biological death of a person		The main criteria for temporary disability of the community in diseases of internal organs	To identify signs of persistent disability in diseases of internal organs	By the method of ascertaining the biological causes of human death
18.	PC-8	the ability to determine the tactics of managing patients with various nosological forms		Algorithms for diagnosis and treatment of major diseases of internal organs	Develop a plan for self-examination and treatment for diseases of internal organs	Skills to implement the developed treatment plan and examination I am a patient with pathology of internal organs
19.	PC-10	readiness to provide medical care in case of sudden acute diseases, conditions,		Symptoms of acute underlying conditions	To provide medical assistance in	Skills of providing medical care in

		exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care		encountered in the Clinic of Internal Diseases	case of exacerbations of major chronic diseases of internal organs	exacerbations of chronic diseases
20.	PC-11	readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention		Symptoms of acute underlying conditions encountered in the Clinic of Internal Diseases	Provide emergency medical care in case of exacerbations of major chronic diseases	Skills of providing emergency medical care for exacerbations of chronic diseases of 10 internal organs
21.	PC-14	readiness to determine the need for the use of natural therapeutic factors, medicinal, non-drug therapy and other methods in patients in need of medical rehabilitation and spa treatment		The main methods of non-drug treatment of major diseases of internal organs	To determine indications for spa treatment for major diseases of internal organs	Skills of non-drug management of diseases of m internal organs
22.	PC-15	readiness to teach patients and their relatives basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and promotion of health, disease prevention		The main methods of primary and secondary prevention and diseases of internal organs	To carry out educational work among the population and in groups of patients	Skills of conducting classes in schools for patients with diseases of internal organs
23.	PC-16	readiness for educational activities to eliminate risk factors and develop healthy lifestyle skills		The main methods of primary and secondary prevention and diseases of internal organs	To carry out educational work among the population and in groups of patients	Skills of conducting classes in schools for patients with diseases of internal organs

24.	PC-20	readiness to analyze and publicly present medical information based on evidence-based medicine		The main methods of biomedical statistics used in the analysis and description of the results of clinical trials	Make a presentation to colleagues	The skills of preparing a report with the use of multimedia equipment
25.	PC-21	ability to participate in scientific research		diagnostic methods, diagnostic capabilities of methods of direct examination of the patient therapeutic profile, modern methods of clinical, laboratory, instrument of laboratory examination of patients (including yuchaya endoscopiche ski, radiological methods, ultrasound diagnostics);	determine the status of the patient: collect anamnesis, conduct a survey of the patient and/ or his relatives , conduct a physical examination of the patient (examination, palpation, auscultation, measurement of arterial pressure, determination of arterial pulse properties, etc.);	methods of general clinical examination; interpretation and analysis of the results of laboratory tests, tools of laboratory diagnostic methods; the algorithm of a detailed clinical diagnosis; proper management of medical documentation and

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

The total labor intensity of the discipline is 2 credits

Type of educational work	Labor intensity		Labor intensity (AH) in semesters
	volume in credit units (CU)	volume in academic hours (AH)	12 semester
Classroom work, including			
Lectures (L)	0,39	14	14
Laboratory practicum (LP)*	-	-	-
Practicals (P)	0,83	30	30
Seminars (S)	-	-	-
Student's individual work (SIW)	0,78	28	28
Mid-term assessment			
credit/exam (<i>specify the type</i>)			credit
TOTAL LABOR INTENSITY	2	72	72

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

№	Competence code	Section name of the discipline
1.	(CC-1, 4, 7, 8); (GPC-1, 2, 4, 5, 6, 7, 8, 9, 11); (PC -1, 5, 6, 7, 8, 10, 14, 16, 20, 21, 22)	Diseases of the upper respiratory tract.
2.	(CC-1, 4, 7, 8); (GPC-1, 2, 4, 5, 6, 7, 8, 9, 11); (PC -1, 5, 6, 7, 8, 10, 14, 16, 20, 21, 22)	Bronchial asthma
3.	(CC-1, 4, 7, 8); (GPC-1, 2, 4, 5, 6, 7, 8, 9, 11); (PC -1, 5, 6, 7, 8, 10, 14, 16, 20, 21, 22)	Chronic obstructive bronchitis.
4	(CC-1, 4, 7, 8); (GPC-1, 2, 4, 5, 6, 7, 8, 9, 11); (PC -1, 5, 6, 7, 8, 10, 14, 16, 20, 21, 22)	Interstitial lung diseases