Summary of the working program of the academic discipline

«Fundamentals of pulmonology»

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

| | | | Code and | | of mastering the dis | cipline, the |
|----|---------------------|---|--|------|--|--|
| | | | name of | | students should: | |
| N⁰ | Competenc e code | The content of the competence (or its part) | the competenc e acquisition metric | 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 maintenane of medical documentatio n and interpretatin of laboratory results, tools of laboratory diagnostic methods |
| 2. | CC-5 | readiness for | | | to assess | proper |

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

| 6. | GPC-2 | and biological terminology, information and communication technologies and taking into account the basic requirements of information security readiness for communication in oral and written forms in Russian and foreign languages to solve the tasks of professional activity | terminology, using uyusya 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 communicatio n 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 |
|-----|-------|---|---|---|---|
| 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 | and; 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 administratio n | 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 |

| Image: spin and spin an | |
|--|--------------|
| andblood andpossiblehematopoieticcomplicationsorgansof the mostof the digestivecommonsystem,diseasesurinaryoccurringsystem,in a typicalmusculoskeletalformandin variousjoints;agefillgroups;out a medicalhistory | |
| Image: state s | |
| complications organs of the most of the digestive common system, diseases urinary occurring system, in a typical musculoskeletal form and in various joints; age fill groups; out a medical history | |
| of the most common diseases occurring in a typical form and in various age groups;of the digestive system, urinary system, musculoskeletal form and in various age fill groups; | |
| common system, diseases urinary occurring system, in a typical musculoskeletal form and in various joints; age fill groups; out a medical history out a medical | |
| diseases urinary occurring system, in a typical musculoskeletal form and in various joints; age fill groups; out a medical history | |
| occurring system, in a typical musculoskeletal form and in various joints; age fill groups; out a medical history | |
| in a typical musculoskeletal form and in various joints; age fill groups; out a medical history | |
| form and in various joints; age fill groups; out a medical history | |
| in various joints; age fill groups; out a medical history | |
| age fill groups; out a medical history | |
| groups; out a medical history | |
| history | |
| | |
| 13 GPC-11 readiness for the use Fundamentals To register Mat | |
| | ethods |
| l l l l l l l l l l l l l l l l l l l | functional |
| provided for laboratory using | |
| | agnostics |
| | the clinic |
| | internal |
| | seases |
| 14. PC-1ability and readinessThe mainTo carrySkill | |
| | conducting |
| | asses in |
| | hools for |
| | tients with |
| | seases |
| strengthening and and of | |
| | ternal |
| | gans |
| formation organs of patients of patients | gans |
| 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 | |
| | |
| 15. PC-5 readiness to collect diagnostic determine met | ethods |
| | general |
| | inical |
| | aminationI; |
| medical history data, of methods anamnesis, inte | terpretation |

| | · · · · · | | 1. | 1 |
|----------|------------------------|---------------------------|-----------------------------|-----------------|
| | examination results, | of direct | conduct | and |
| | laboratory, | examination | a survey | analysis of the |
| | instrumental, | of the patient | of the patient | results |
| | pathoanatomic and | therapeutic | and/ or his | of laboratory |
| | other studies in order | profile, | relatives | tests, |
| | to recognize the | modern | , conduct | tools |
| | condition | methods | a physical | of laboratory |
| | or establish the | of clinical, | examination of | diagnostic |
| | presence or absence | laboratory, | the patient | methods; |
| | of the disease | instrumental | (examination, | the algorithm |
| | | examination | palpation, | of a detailed |
| | | of patients | auscultation, | clinical |
| | | (incl | measurement | diagnosis; |
| | | endoscopic | of arterial | proper |
| | | radiologists | pressure, | maintenance |
| | | Czech | determination | of medical |
| | | methods, | of the properties | records |
| | | ultrasound | of arterial | and |
| | | diagnostics); | pulse, etc.); | |
| | | criteria | conduct | |
| | | for the | a primary | |
| | | diagnosis | examination | |
| | | of various | of systems and | |
| | | diseases; | organs: | |
| | | clinical | endocrine, | |
| | | picture, | immune, | |
| | | features | respiratory, | |
| | | of the course | cardiovasculr, | |
| | | and | blood and | |
| | | possible | hematopoietic | |
| | | complications of the most | organs of | |
| | | | | |
| | | common diseases | digestive, | |
| | | | urinary, musculoskeletal | |
| | | occurring | and | |
| | | in a typical form | joints; | |
| | | in various | fill | |
| | | | out a medical | |
| | | age groups; | history | |
| 16. PC-6 | the ability to | 5.04ps, | libiory | methods |
| | determine | diagnostic | patient status: | of general |
| | in patients the main | methods, | collect | clinical |
| | pathological | diagnostic | anamnesis, | examination |
| | conditions, | capabilities | conduct | I; |
| | symptoms, | of methods | a survey | interpretation |
| | disease syndromes, | of direct | of the patient | and |
| | nosological forms in | examination | and/or his | analysis of the |
| | accordance with | of the patient | relatives, conduct | results |
| | the International | therapeutic | a physical | of laboratory |
| | Statistical | profile, | examination of | tests, |
| | Classification of | modern | the patient | tools |
| | Diseases and | methods | (examination, | of laboratory |
| | | of clinical, | palpation, | diagnostic |
| | Health-Related | laboratory, | auscultation, | methods; |
| | Problems (ICD) | instrumental | measurement | the algorithm |
| | | examination | of arterial | of a detailed |
| | I | | | |

| | | | of patients (incl young | pressure, determination of the properties of arterial | clinical diagnosis; proper maintenance |
|-----|-------|---|---|---|---|
| | | | endoscopic Czech radiologists Czech methods, ultrasound diagnostics); criteria for the diagnosis of various diseases; clinical picture, features of the course and possible complications | pulse, etc.); conduct a primary examination of systems and organs: endocrine, immune, respiratory, cardiovasculr, blood and hematopoietic organs of digestive, urinary, musculoskeletal and joints; | of medical records and |
| | | | of the most common diseases occurring in a typical form in various age groups; | fill out a medical history | |
| 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 |
| | 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 |

| 20. | PC-11 | exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention | encountered in the Clinic of Internal Diseases Symptoms of acute underlying conditions encountered in the Clinic of Internal Diseases | case of exacerbations of major chronic diseases of internal organs Provide emergency medical care in case of exacerbations of major chronic diseases | exacerbations of 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 | 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 m method of bion statisti used in the and and descrip of the of clin trials | ds presentation medical to colleagues ics n alysis ption results | The skills of preparing a report with the use of multimedia equipment |
|-----------|---|--|--|--|
| 25. PC-21 | ability to participate in scientific research | diagno metho diagno capabi of met of dire examin of the therap profile n meth of clin labora instrur of labo examin of pati (incl yuchay | ds, the status ostic of the patient: ilities collect hods anamnesis, ext conduct nation a survey patient of the patient eutic and/ or his e, moder relatives nods , conduct ical, a physical tory, examination of ment the patient oratory (examination, nation palpation, ients auscultation, measurement ya of arterial copiche pressure, determination ogical of arterial pulse ds, properties, ound 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 documentatio n 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 i | ntensity | Labor intensity (AH) in |
|---------------------------------|--------------|------------|-------------------------|
| | volume in | volume in | semesters |
| | credit units | academic | 12 semester |
| | (CU) | hours (AH) | |
| 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 (specify the type) | | | credit |
| TOTAL LABOR INTENSITY | 2 | 72 | 72 |

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

| Nº | 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 |