

Summary of the working program of the academic discipline

« UROLOGY »

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

Department: FACULTY OF SURGERY AND TRANSPLANTOLOGY

1. The purpose of mastering the discipline: participation in the formation of competencies - GPC-4, GPC-5, PC-5, PC-6, PC-7

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

| № | 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: | | |
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| | | | | know | be able to | possess |
| 1. | GPC-4 | Able to apply medical products, provided by the order of healthcare delivery, as well as examine patients for the purpose of determining the diagnosis | IGPC 4.1 Knows the methodology for collecting an anamnesis of life and diseases, complaints from patients (their legal representatives); method of examination and physical examination; clinical picture, diagnostic methods of the most common diseases; methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results; international statistical classification of diseases and related health problems (ICD); conditions requiring emergency medical care; the procedure for the use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations and (treatment protocols) on the provision of | the methodology of collecting anamnesis of life and diseases, complaints of patients (their legal representatives); examination procedure; and physical examination; clinical aspect, methods of diagnosis of the most common diseases; methods of laboratory and instrumental investigations to assess the state of health, medical indications for conducting research, | collect complaints, anamnesis of life and disease of patients (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical survey of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology among patients; identify risk factors for cancer; formulate a preliminary | Has practical experience in: collecting complaints, anamnesis of life and disease of patients (their legal representatives), identifying risk factors and causes of disease development; examination and physical survey of patients; diagnosis of the most common diseases; identification of risk factors for major oncological diseases; formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional investigations, consultations of specialist |

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| | | | <p>medical care, assistance taking into account the standards of medical care IGPC 4.2 Knows how to: collect complaints, anamnesis of life and disease in patients (their legal representatives), identify risk factors and causes of the development of diseases; apply methods of examination and physical examination of patients; interpret the results of the examination and physical examination of patients; diagnose the most common pathology in patients; identify risk factors for cancer; formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in patients in accordance with the procedures for providing medical care, clinical recommendations, etc. taking into account the standards of medical care; refer patients for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of medical care, clinical recommendations, and, subject to standards of care; refer patients for consultations to specialist doctors in accordance with the procedures for the provision of medical care, clinical recommendations and, taking into account the standards of medical care; interpret and analyze the results of consultations with patients' specialists; interpret and analyze the results of the main (clinical) and additional (laboratory,</p> | <p>rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring emergency medical care; procedure for the use of medical devices in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care</p> | <p>diagnosis, to make a plan for conducting laboratory, instrumental and additional investigations of patients in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; to refer patients to laboratory, instrumental and additional investigations in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations to medical specialists in accordance with the procedures of medical care, clinical recommendations taking into account the standards of medical care; to interpret and</p> | <p>doctors; referral of patients for instrumental, laboratory, additional investigations, consultations of specialist doctors in accordance with the current procedures for providing medical care, clinical recommendations taking into account the standards of medical care; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and problems related to health (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care; the use of medical devices in accordance with current medical procedures, clinical recommendations (treatment</p> |
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| | | <p>instrumental) examination methods; to carry out differential diagnostics of diseases in patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of a threat to life, requiring emergency medical care; use medical devices in accordance with the current procedures for the provision of medical, clinical guidelines (treatment protocols) on the provision of medical care, care taking into account the standards of medical care</p> <p>IGPC 4.3 Has practical experience: collecting complaints, anamnesis of life and disease in patients (their legal representatives). identification of risk factors and causes of disease development; examination and physical examination of patients; diagnosis of the most common diseases; identification of risk factors for major cancers; I formulated a preliminary diagnosis, drawing up a plan for conducting instrumental puff. laboratory, additional research, consultations of medical specialists; referral of patients for instrumental, laboratory, additional studies, consultations of specialist doctors in accordance with the current procedures for the provision of medical care, clinical guidelines and, taking into account standards of care; interpretation of additional (laboratory and</p> | | <p>analyze the results of consultations by medical specialists of patients; to interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; carry out differential diagnosis of diseases of patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening, requiring medical care in an urgent form; use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p> | <p>protocols) on the issues of medical care delivery, assistance taking into account the standards of medical care</p> |
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| | | | instrumental) examinations of patients; provisional diagnosis in accordance with the international statistical classification of diseases and related health problems (ICD); carrying out differential diagnostics of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring emergency medical care; use of medical devices in accordance with the current procedures for the provision of medical, clinical recommendations and (treatment protocols) on the provision of medical care, care taking into account the standards of medical care | | | |
| 2. | GPC-5 | Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems | IGPC 5.1 Knows: anatomy, histology, embryology, then graph and chess anatomy, physiology, pathological anatomy and physiology of human organs and systems IGPC 5.2 Able to: evaluate the main morphological and functional data, physiological conditions and pathological processes in the human body IGPC 5.3 Has practical experience: assessment of basic morphofunctional data, physiological states and pathological processes in the human body when solving professional problems | anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems | evaluate the basic morphological and functional data, physiological conditions and pathological processes in the human body | Has practical experience in: assessment of basic morphological and functional data, physiological conditions and pathological processes in the human body when solving professional problems |
| 3. | PC-5 | Able to collect complaints, anamnesis of the patient's life and | IPC 5.1 Knows: Legislation of the Russian Federation in the field of health care, regulatory legal acts | the legislation of the Russian Federation in | collect complaints, anamnesis of life and | collection of complaints, anamnesis of life and disease |

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| | | <p>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</p> | <p>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 mechanisms for ensuring health from the standpoint of the theory of functional systems; features of the regulation of the functional systems of the human body in pathological processes; methods of laboratory and instrumental studies for assessing the state of health, medical indications for research, rules for interpreting their results IPC 5.2 Able to: 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</p> | <p>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 of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; patterns of functioning of a healthy human body and mechanisms for ensuring health from the standpoint of the theory of functional systems; features of</p> | <p>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 incl. modern digital technologies</p> | <p>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</p> |
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| | | | | 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 investigations, rules for interpreting their results | | |
| 4. | PC-6 | Able to send a patient to laboratory, instrumental examination, to a 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 | IPC 6.1 Knows: general issues of organizing medical care for the population, methods of laboratory and instrumental studies to 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 | general issues of organizing medical care for the population, 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 recommendations (treatment protocols) on the provision of medical care, | 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 | referral of a patient for laboratory examination if there is a medical 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, |

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| | | 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 | care | standards of medical care | | clinical recommendations 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 standards of medical care: referral of a 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 |
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| 5. | PC-7 | Able to: make a differential diagnosis with other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD) | IPC 7.1 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 conducting studies, rules for interpreting their results; ICD IPC 7.2 Able to: analyze the results of the patient's examination, if necessary, justify and plan the amount of additional research; 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 data obtained during consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases | etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental examinations for assessing the state of health, medical indications for conducting examinations, rules for interpreting their results; ICD | analyze the results of the patient's examination, if necessary, justify and plan the scope of additional examinations; 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 consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases | differential diagnosis with other diseases/conditions, including emergencies: diagnosis based on the current international statistical classification of diseases and related health problems (ICD) |
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4. Volume of the academic discipline and types of academic work

Total labor intensity of the discipline is 2 CU (72 AH)

| Type of educational work | Labor intensity | | Labor intensity (AH) in semesters | | | |
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| | volume in credit units (CU) | volume in academic hours (AH) | 7 | | | |
| Classroom work, including | | | | | | |
| Lectures (L) | 0,3 | 10 | 10 | | | |
| Laboratory practicum (LP)* | | | | | | |
| Practicals (P) | 1 | 34 | 34 | | | |

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| Seminars (S) | | | | | |
| Student's individual work (SIW) | 0,7 | 28 | 28 | | |
| Mid-term assessment | | | | | |
| credit/exam (<i>specify the type</i>) | | | | | |
| TOTAL LABOR INTENSITY | 2 | 72 | 72 | | |

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

| № | Competence code | Section name of the discipline |
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| 1. | GPC- 4, 5 PC- 5, 6, 7 | History of urology. Semiotics and methods of diagnosis of urological diseases. Medical ethics and deontology in the work of a urologist. |
| 2. | GPC- 4, 5 PC- 5, 6, 7 | Nonspecific and specific inflammatory diseases of the urinary system and male genital organs. |
| 3. | GPC- 4, 5 PC- 5, 6, 7 | Urolithiasis disease. |
| 4. | GPC- 4, 5 PC- 5, 6, 7 | Oncourology. Tumors of the kidney, bladder. Prostate cancer. Hyperplasia of the prostate. |
| 5. | GPC- 4, 5 PC- 5, 6, 7 | Injuries of the urinary system. |