

Summary to the work program of the discipline

"Rheumatology"

(name of discipline)

of the main educational program of higher education (specialist/ master / residency) _in the specialty / field of training / profile)

31.05.01 General Medicine

1. The purpose of mastering the discipline participate in the formation of universal (UK-1, UK-4, UK-5), professional (OPC-1, OPC-2, OPC-4-11) and professional competencies (PC-1-10, PC-13, PC-16, PC-19, PC-22), required for the implementation of the necessary amount of university graduates in this specialty in accordance with the professional standard "doctor-therapist".

2. Place of the discipline in the structure of the curriculum

2.1 The discipline is part of Block 1 of the VET curriculum.

3 Requirements for competence development outcomes of the discipline (module)

The discipline aims to develop the following universal (UK), general professional (GC) and professional (PC) competences:

| п/ № | Code comp e- tions | Content of the competence (or part of it) | Code and name of the competence achievement indicator | As a result of the discipline, students should | | |
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| | | | | Know | Know how to | Own |
| 1. | UK-1 | Is able to critically analyse problematic situations with a systematic approach, to develop a strategy of action | SCI 1.1 Knows: methods of critical analysis and evaluation of modern scientific advances; basic principles of critical analysis IUK 1.2 Can: acquire new knowledge through analysis, synthesis, etc.; collect data on complex scientific problems relevant to the professional | methods of critical analysis and evaluation of contemporary scientific advances; basic principles of critical analysis, | gain new knowledge through analysis, synthesis, etc.; collect data on complex scientific problems relevant to the professional field; search for information and solutions based on action, experimentation and experience | Skills in researching a professional problem using analysis, synthesis and other intellectual methods; developing an action strategy to solve professional problems |

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| | | | <p>field; search for information and solutions based on action, experimentation and experience</p> <p>SCB 1.3 Has practical experience in: investigating a professional problem using analysis, synthesis and other intellectual methods; developing an action strategy to solve professional problems</p> | | | |
| 2. | UK-4 | <p>Able to use modern communication technologies, including in foreign language(s), for academic and professional interaction</p> | <p>Knowledge of: basics of oral and written communication in Russian and foreign languages, functional styles of native language, requirements for business communication, modern means of information and communication technology</p> <p>SCI 4.2 Can: express his/her thoughts in Russian and in a foreign</p> | <p>basics of oral and written communication in Russian and a foreign language, functional styles of the native language, requirements for business communication, modern means of information and communication technology</p> | <p>express their thoughts in Russian and a foreign language in business communication</p> | <p>Skills in composing texts in Russian and foreign languages related to professional activities; experience in translating medical texts from a foreign language into Russian; experience in speaking in Russian and a foreign language</p> |

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| | | | <p>language in business communication</p> <p>TSI 4.3 Has practical experience: composing texts in Russian and a foreign language related to professional activities; experience translating medical texts from a foreign language into Russian; experience speaking in Russian and a foreign language</p> | | | |
| 3. | UK-5 | Able to analyse and take into account the diversity of cultures in intercultural interaction | <p>SCI 5.2 Be able to: present professional information intelligently and accessible in the process of intercultural interaction; observe ethical norms and human rights; analyse the specific features of social interaction, taking into account national, ethno-cultural and religious features</p> <p>SCI 5.3 Has</p> | Basic categories of philosophy, laws of historical development, basics of intercultural communication; basic concepts of human interaction in an organisation | To present professional information intelligently and accessible in the process of intercultural interaction; to observe ethical norms and human rights; to analyse the specific features of social interaction, taking into account national, ethno-cultural and professional specificities | Skills to interact productively in a professional environment, taking into account national, ethno-cultural, professional specificities; to overcome communication, educational, ethnic, professional and other barriers in the process of intercultural interaction |

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| | | | <p>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</p> | | | |
| 4. | OPK-1 | Able to implement moral and legal standards, ethical and deontological principles in professional practice | <p>IOPC 1.1 Knowledge of: basics of medical ethics and deontology; basics of health law; legal aspects of medical practice</p> <p>IOPC 1.2 Can: apply ethical standards and principles of conduct of a medical professional in the performance of his/her professional duties; knowledge of modern legislation in the field of</p> | Basics of medical ethics and deontology; basics of health law; legal aspects of medical practice | apply ethical norms and principles of conduct of a medical professional in the performance of his/her professional duties; knowledge of modern legislation in the field of health care in solving tasks of professional activity; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives) | the skills to solve standard professional tasks on the basis of ethical norms and deontological principles in interaction with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical activity |

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| | | | <p>health care in solving tasks of professional activity; apply rules and norms of interaction of a doctor with colleagues and patients (their legal representatives)</p> <p>OPC 1.3 Has practical experience: solving standard professional tasks on the basis of ethical norms and deontological principles in interaction with colleagues and patients (their legal representatives), knowledge of legal aspects of medical activity</p> | | | |
| 5. | OPK-2 | Able to carry out and monitor the effectiveness of prevention, health promotion and hygiene education measures | IOPC 2.1 Knowledge of: basic criteria of healthy lifestyle and methods of its formation; social, hygienic and medical aspects of alcoholism, drug addiction, substance abuse, basic principles of their prevention; forms and | The basic criteria for a healthy lifestyle and methods of shaping it; the social, hygienic and medical aspects of alcoholism, drug addiction and substance abuse, and the basic principles of their prevention; | Provide health education to children and adults (their legal representatives) and health workers to promote a healthy lifestyle and prevent the most common diseases; provide health education to children and adults to promote a healthy lifestyle | Skills in promoting healthy lifestyles and preventing the most common diseases; health education for children and adults; shaping the behaviour of children and adults (their legal representatives) to maintain and improve |

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| | | <p>methods of hygiene education among patients (their legal representatives), health workers; basic hygienic measures of health promotion and prevention of the most common diseases; basics of preventive medicine; stages of planning and prevention of the most common diseases</p> <p>IOPC 2.2 Can: provide health education to children and adults (their legal representatives) and health workers to promote a healthy lifestyle and prevent the most common diseases; provide health education to children and adults to promote a healthy lifestyle and prevent the most common diseases; develop behaviour in</p> | <p>forms and methods of health education for patients (their legal representative s) and health workers; basic hygiene measures for health promotion and prevention of the most common diseases; the basics of preventive medicine; stages in planning and implementing the com</p> | <p>and prevent the most common diseases; promote behaviour among children and adults (their legal representatives) aimed at maintaining and improving their somatic health; develop and implement</p> | <p>their physical health; developing healthy lifestyle programmes, including programmes to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of drugs and psychotropic substances; developing a prevention plan</p> |
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| | | | <p>children and adults (their legal representatives) to maintain and improve their somatic health; develop a healthy lifestyle and prevent the most common diseases</p> <p>Experienced in: promotion of healthy lifestyles and prevention of the most common diseases; health education for children and adults; developing behaviour among children and adults (their legal representatives) aimed at maintaining and improving somatic health; developing healthy lifestyle programmes, including programmes to reduce alcohol and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances;</p> | | | |
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| | | | development of a comprehensive health promotion programme for children and adults (their legal representatives) | | | |
| 6. | OPK-4 | Is able to use medical devices as stipulated in the medical care procedure and to carry out examinations of the patient in order to establish the diagnosis | <p>IOPC 4.1 Knowledge of life and disease history, complaints of patients (their legal representatives); examination and physical examination; clinical picture, diagnostic methods of the most common diseases; methods of laboratory and instrumental tests to assess health, medical indications for tests, interpretation of results; International Statistical Classification of Diseases and Related Health Problems (ICD); conditions requiring medical care in an emergency</p> <p>OPC 4.2 Know how to: gather complaints, life</p> | Knows how to collect the anamnesis of life and diseases, complaints from patients (their legal representative s); examination and physical examination methods; clinical picture, diagnostic methods of the most common diseases; methods of laboratory and instrumental tests to assess the state of health, medical indications for tests, rules of interpretation of their results; international statistical classification of diseases and health-related | collect complaints, life and disease history from patients (their legal representatives) , identify risk factors and causes of diseases; apply methods of examination and physical examination of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathologies in patients; identify risk factors for cancer diseases; formulate a preliminary diagnosis, plan laboratory, instrumental and additional examinations in patients | Has practical experience in: collecting complaints, life and disease history from patients (their legal representatives), identifying risk factors and causes of diseases; examining and physical examination of patients; diagnosing the most common diseases; identifying risk factors for major cancers; formulating a preliminary diagnosis, making a plan for instrumental, laboratory, additional tests, consultations with specialists; referring patients for instrumental, laboratory tests |

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| | | | <p>and disease history from patients (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical examination of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathologies in patients; identify risk factors for cancer diseases; formulate a preliminary diagnosis, plan laboratory, instrumental and additional tests</p> <p>Experienced in: collecting complaints, life and disease history from patients (their legal representatives), identifying risk factors and causes of diseases; examining and physically</p> | <p>problems (ICD); conditions requiring medical care in case of emergency</p> | | |
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| | | | <p>examining patients; diagnosing the most common diseases; identifying risk factors for major cancers; formulating a preliminary diagnosis, making a plan for instrumental, laboratory and additional tests, consulting specialists; referring patients for instrumental, laboratory tests</p> | | | |
| 7. | BPC-5 | <p>Is able to assess morphofunctional, physiological conditions and pathological processes in the human body in order to solve professional problems</p> | <p>IOPC-5.1 Knows: Anatomy, histology, embryology, topographical anatomy, physiology, pathological anatomy and physiology of human organs and systems</p> <p>OPC 5.2 Know how to: assess basic morphofunctional data, physiological conditions and pathological processes in the human body</p> <p>Experienced in: Assessment of basic</p> | <p>Anatomy, histology, embryology, topographical anatomy, physiology, pathological anatomy and physiology of human organs and systems</p> | <p>assess basic morphofunctional data, physiological conditions and pathological processes in the human body</p> | <p>Skills in assessing basic morphofunctional data, physiological conditions and pathological processes in the human body when solving professional tasks</p> |

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| | | | morphofunctional data, physiological conditions and pathological processes in the human body when solving professional tasks | | | |
| 8. | BPC-6 | Able to organise patient care, provide primary health care, organise work and make professional decisions in pre-hospital emergencies, emergencies, epidemics and mass casualty areas | IOPC 6.1 Knows: methods of collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of providing medical aid to patients in emergency conditions, emergencies, epidemics and mass casualty areas in accordance with medical aid procedures, clinical guidelines, taking into account medical aid standards; clinical signs of basic | The principles and methods of medical aid to patients in emergencies, emergencies, epidemics and mass casualty areas according to medical aid procedures, clinical guidelines, and medical aid standards; clinical signs of the main emergencies; principles of medical evacuation in emergencies and epidemic situations; the principles of medical aid to patients in emergencies and mass casualty areas according to medical aid standards; and the principles of medical evacuation in emergencies and epidemic | Recognise conditions requiring emergency medical assistance, including emergencies, epidemics and mass casualty areas; organise the work of medical personnel in emergencies, emergencies, epidemics and mass casualty areas; provide emergency medical assistance to patients with life-threatening conditions, including clinical death (stopping of vital functions) | The skills of assessing conditions requiring emergency medical assistance, including emergencies, epidemics and mass casualty areas; recognising life-threatening conditions, including clinical death (arrest of vital human functions (circulation and/or breathing)) requiring emergency medical assistance; and providing emergency medical assistance to patients with life-threatening conditions, including clinical death |

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| | | | <p>emergency conditions; principles of medical evacuation in conditions</p> <p>Able to: recognise conditions that require emergency medical assistance, including emergencies, epidemics and mass casualty areas that require emergency medical assistance; organise the work of medical staff in emergencies, epidemics and mass casualty areas; provide emergency medical assistance to patients with life-threatening conditions, including clinical death (life-sustaining stoppage of life)</p> <p>Experienced in: assessment of conditions that require emergency medical assistance, including</p> | situations. | | |
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| | | | <p>emergencies, epidemics and mass casualty areas; recognition of life-threatening conditions, including clinical death (arrest of vital human functions (circulation and/or respiration) that require emergency medical assistance; provision of emergency medical assistance to patients with life-threatening conditions, including</p> | | | |
| 9. | OPK-7 | Able to prescribe treatment and monitor its effectiveness and safety | <p>IOPC 7.1 Knows: methods of medical and non-medical treatment, medical indications for the use of medical devices for the most common diseases; groups of drugs used to provide medical care for the treatment of the most common diseases; their mechanism of</p> | <p>methods of medical and non-medical treatment, medical indications for the use of medical devices for the most common diseases; groups of drugs used for medical care for the treatment of the most common diseases; their mechanism of action, medical</p> | <p>Develop a treatment plan for patients with the most common diseases in accordance with medical care procedures, clinical guidelines, taking into account the standards of medical care; prevent or eliminate complications, adverse effects, adverse reactions, including unexpected ones, resulting from diagnostic</p> | <p>Skills in developing a treatment plan for patients with the most common diseases in accordance with current procedures for providing medical care, clinical guidelines, taking into account medical care standards; providing emergency and urgent medical care to patients</p> |

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| | | <p>action, medical indications and contraindications for prescription; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen; features of medical care in emergencies</p> <p>IOPC 7.2 Can: develop a treatment plan for patients with the most common diseases in accordance with medical care procedures, clinical guidelines and standards of care; prevent or eliminate complications, adverse effects, adverse reactions, including unexpected ones, resulting from diagnostic or treatment procedures, use of medicines and/or medical devices, non-medicinal treatments</p> <p>Experienced in:</p> | <p>indications and contraindications for prescription; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen; features of medical care in acute forms.</p> | <p>or treatment manipulations, the use of medicines and/or medical devices, non-medicinal treatments</p> | <p>with the most common diseases in accordance with current procedures for providing medical care, clinical guidelines, taking into account medical care standards; selection and prescription of medicines, medical devices with</p> |
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| | | | <p>developing a treatment plan for patients with the most common diseases, in accordance with current procedures of medical care, clinical guidelines, taking into account the standards of medical care; emergency and urgent medical care for patients with the most common diseases, in accordance with current procedures of medical care, clinical guidelines, taking into account the standards of medical care; selection and administration of medicines,</p> | | | |
| 10. | BPC-8 | <p>Is able to implement and monitor the effectiveness of medical rehabilitation of a patient, including the implementation of individual rehabilitation and habilitation programmes for</p> | <p>OPC 8.1 Knowledge of: procedures for organising medical rehabilitation, including the implementation of individual rehabilitation and habilitation programmes for disabled</p> | <p>Procedures for organising medical rehabilitation, including the implementation of individual rehabilitation and habilitation programmes for persons with</p> | <p>Develop an action plan for medical rehabilitation of patients, including the implementation of individual rehabilitation and habilitation programmes for persons with disabilities, in accordance with the current</p> | <p>Skills in drawing up a plan of measures for medical rehabilitation of a patient, including the implementation of individual programmes for the rehabilitation and habilitation</p> |

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| | <p>persons with disabilities, to assess the patient's ability to work</p> | <p>people; methods of medical rehabilitation, including the implementation of individual rehabilitation and habilitation programmes for disabled people, medical indications and medical contraindications to their implementation, taking into account the diagnosis in accordance with the current procedures for organising medical rehabilitation, clinical guidelines, taking into account medical care standards; ways of preventing or eliminating</p> <p>IOPK 8.2 Can: develop an action plan for medical rehabilitation of patients, including the implementation of individual rehabilitation programmes for persons with disabilities, in</p> | <p>disabilities; methods of medical rehabilitation, including the implementation of individual rehabilitation and habilitation programmes for persons with disabilities, medical indications and medical contraindications for their implementation, taking into account the diagnosis in accordance with current procedures for organising medical rehabilitation, clinical guidelines and medical care standards; ways of preventing or eliminating complications,</p> | <p>procedure for organising medical rehabilitation, clinical guidelines, taking into account medical care standards; determine medical indications for medical rehabilitation measures in accordance with the current procedure for organising medical rehabilitation, clinical guidelines, taking into account medical care standards; assess</p> | <p>of disabled people, in accordance with the existing procedure for medical rehabilitation, clinical guidelines, taking into account the standards of medical care; conducting medical rehabilitation measures for patients, including the implementation of individual programmes for the rehabilitation and habilitation of disabled people, in accordance with the existing procedure for organising medical rehabilitation, clinical guidelines</p> |
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| | | | <p>accordance with the current procedure for organising medical rehabilitation, clinical guidelines, taking into account medical care standards; determine medical indications for medical rehabilitation measures in accordance with the current procedure for organising medical rehabilitation, clinical guidelines, taking into account medical care standards; assess</p> <p>Experienced in: drawing up a plan of measures for medical rehabilitation of a patient, including the implementation of individual rehabilitation and habilitation programmes for persons with disabilities, in</p> | | | |
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| | | | <p>accordance with the current order of medical rehabilitation, clinical guidelines, taking into account medical care standards; conducting medical rehabilitation measures for patients, including the implementation of individual rehabilitation and habilitation programmes for persons with disabilities, in accordance with the current order of medical rehabilitation organisation, clinical guidelines</p> | | | |
| 11. | BPC-9 | Is able to implement the principles of quality management in professional activities | <p>OPC 9.1 Knowledge of: Basic concepts of quality management system of a medical organisation; requirements for internal control of quality and safety of medical activity</p> <p>OPC 9.2 Know how to: analyse</p> | Basic concepts of the quality management system of a medical organisation; requirements for ensuring internal quality control and safety of medical activities | Analyse the quality of patient care; ensure internal control of the quality and safety of medical activity; organise the work and supervise the performance of the job duties of the medical personnel on duty | how to carry out internal quality assurance work on dental health care and the safety of medical practice |

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| | | | <p>the quality of patient care; ensure internal control of the quality and safety of medical practice; organise and supervise the performance of duties of medical staff on duty</p> <p>DPC 9.3 Has practical experience in: carrying out internal quality assurance work on dental patient care and safety of medical practice</p> | | | |
| 12. | OPK-10 | Is able to solve standard professional tasks using information, bibliographic resources, medical and biological terminology, information and communication technology, taking into account basic information security requirements | IOPC 10.1 Knows: possibilities of reference and information systems and professional databases; information retrieval methods, information and communication technologies; modern medical and biological terminology; basics of information security in professional | the possibilities of reference information systems and professional databases; information retrieval methods, information and communication technologies; modern medical and biological terminology; basics of information security in professional | use modern information and communication technologies to solve professional tasks; effectively search for information necessary to solve professional tasks using reference systems and professional databases; use modern medical and biological terminology; master and use modern information and communication technologies in professional | how to use modern information and bibliographic resources, special software and computerised information systems to solve standard professional tasks, taking into account the basic requirements of information security |

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| | | <p>activity</p> <p>IOPC 10.2 Can: use modern information and communication technologies to solve professional problems; effectively search for information needed to solve professional problems using reference systems and professional databases; use modern medical and biological terminology; master and use modern information and communication technologies in professional work with regard to basic information security requirements</p> <p>COP 10.3 Has practical experience: using modern information and bibliographic resources, using special software and automated information systems to</p> | <p>activities</p> | <p>activities, taking into account the basic requirements of information security</p> | |
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| | | | <p>solve standard professional tasks, taking into account the basic requirements of information security</p> | | | |
| 13. | OPK-11 | <p>Able to prepare and apply scientific, scientific-production, project, organisational-management and regulatory documentation in the health care system</p> | <p>COPK-11.1 Knowledge of: scientific, scientific-production, design, organisational-management and regulatory documentation in the health care system</p> <p>Competencies: Prepare scientific, research and production, design, organisational, managerial and regulatory documentation in the health care system</p> | <p>Scientific, scientific, production, project, organisational, managerial and regulatory documentation in the health care system</p> | <p>Prepare scientific, scientific-production, project, organisational-management and regulatory documentation in the health care system</p> | <p>how to compile scientific, scientific and production, design, organisational, managerial and regulatory documentation in the health care system</p> |
| 14. | PC -1 | <p>Is able to assess the condition of a patient requiring emergency or urgent medical treatment</p> | <p>PKI 1.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of course, complications and outcomes of</p> | <p>etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, peculiarities of course, complications and outcomes of gastrointestina</p> | <p>Identify clinical signs of conditions requiring emergency or urgent medical care</p> | <p>how to identify clinical signs of conditions that require urgent or emergency care</p> |

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| | | | <p>gastrointestinal diseases; method of collecting complaints and anamnesis; method of physical examination (examination, palpation, percussion, auscultation); list of laboratory and instrumental tests to assess the condition, basic medical conditions for investigation and interpretation of results in patients requiring medical care in urgent or emergent forms</p> <p>PKI 1.2 Skills:</p> <p>Identify clinical signs of conditions requiring emergency or urgent medical care</p> | <p>I diseases; collection of complaints and anamnesis; physical examination (examination, palpation, percussion, auscultation); list of laboratory and instrumental tests to assess the condition, main medical indications for tests and interpretation of results in patients requiring emergency or urgent medical care</p> | | |
| 15. | PC -2 | Is able to recognise conditions resulting from sudden acute illnesses, exacerbations of chronic | <p>PKI 2.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential</p> | <p>aetiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis,</p> | <p>Identify clinical signs of conditions that require emergency care; identify conditions that require emergency care, including</p> | <p>how to identify clinical signs of conditions that require emergency medical care; emergency medical care,</p> |

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| | | <p>diseases without clear signs of life-threatening conditions and requiring emergency medical care, recognise life-threatening conditions, including clinical death (interruption of vital human functions (circulation and/or respiration), requiring emergency medical care</p> | <p>diagnosis, features of course, complications and outcomes of gastrointestinal diseases; methods of collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); list of laboratory and instrumental tests to assess patient condition, main medical indications for tests and interpretation of results; clinical signs of extrasanitary</p> <p>Competent in: identifying clinical signs of conditions that require emergency care; identifying conditions that require emergency care, including</p> | <p>features of the course, complications and outcomes of gastrointestinal diseases; methods of collecting complaints and anamnesis from patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); list of laboratory and instrumental tests to assess the patient's condition, main medical conditions for the tests and interpretation of results; clinical signs of a sudden illness; and</p> | <p>clinical signs of sudden circulatory and respiratory failure</p> | <p>including clinical signs of sudden circulatory and respiratory failure</p> |
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| | | | clinical signs of sudden circulatory and respiratory collapse | | | |
| 16. | PC -3 | Able to provide emergency medical aid to patients in case of sudden acute illnesses, conditions, exacerbation of chronic diseases without obvious life-threatening signs, provide emergency medical aid to patients in case of life-threatening conditions, including clinical death (interruption of vital human functions (circulation and/or respiration)) | PKI 3.1 Knows: rules for basic cardiopulmonary resuscitation; principles of operation of external electropulse therapy (defibrillation) devices; rules for external electropulse therapy (defibrillation) in sudden cessation of circulation and/or respiration Competent to: carry out emergency and urgent medical treatment; basic cardiopulmonary resuscitation combined with electro-pulse therapy (defibrillation) | rules for basic cardiopulmonary resuscitation; principles of operation of external electropulse therapy (defibrillation) devices; rules for external electropulse therapy (defibrillation) in sudden cardiac and/or respiratory arrest | Perform emergency and urgent medical interventions; basic cardiopulmonary resuscitation combined with electro-pulse therapy (defibrillation) | |
| 17. | PC -4 | Is able to administer medicines and medical devices in emergency and urgent care | Competent in the use of medicines, medical devices for diseases and conditions in accordance with current procedures of | modern methods of administering medicines, medical devices for diseases and conditions in accordance | Prescribe medicines, medical devices, taking into account the diagnosis, age and clinical picture of the disease, in accordance with the current | Techniques for prescribing medicines and medical devices, taking into account the diagnosis, age and clinical picture of the |

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| | | | <p>medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care in the provision of medical care in an emergency or urgent form;</p> <p>The mechanism of action of medicines, medical devices, medical indications and contraindications for their use; complications caused by their use;</p> <p>the principles of operation of external electropulse therapy (defibrillation) devices;</p> <p>rules for performing external electro-pulse therapy (defibrillation) in the event of sudden cessation of circulation and/or respiration</p> | <p>with the current procedures for medical care, clinical guidelines (treatment protocols) for medical care, taking into account the standards of medical care in the provision of medical care in emergency or urgent forms;</p> <p>The mechanism of action of medicines, medical devices, medical indications and contraindications for their use; complications caused by their use;</p> <p>the principles of operation of external electropulse therapy (defibrillation) devices;</p> <p>rules for performing external electro-pulse therapy (defibrillation) in the event of sudden</p> | <p>health care procedures, clinical guidelines (treatment protocols) for emergency or urgent medical care</p> | <p>disease, in accordance with current health care procedures, clinical guidelines (treatment protocols) for emergency or urgent medical care</p> |
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| | | | Competent to: prescribe medicines, medical devices, taking into account the diagnosis, age and clinical picture of the disease, in accordance with current health care procedures, clinical guidelines (treatment protocols) for emergency or urgent medical care | cessation of circulation and/or respiration | | |
| 18. | PC-5 | Is able to collect complaints, patient history, complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and plan laboratory and instrumental examinations, including diagnostic tests with the use of modern technology and digital technology | Knowledge of: Legislation of the Russian Federation in the field of health care, regulations and other documents governing the activities of medical organisations and medical workers; methodology of collecting complaints, anamnesis of life and disease of the patient; full physical examination of the patient (examination, palpation, percussion, auscultation); | Legislation of the Russian Federation in the field of health protection, normative legal acts and other documents determining the activity of medical organisations and medical workers; methodology of collecting complaints, anamnesis of life and disease of the patient; methodology of complete physical examination of the patient | collect complaints, medical and life history of the patient and analyse the information obtained; carry out a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret the results; prioritise the scope, content and sequence of diagnostic measures | Methods involving the collection of complaints, patient history and disease and analysis of the information obtained; complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpretation of the results; prioritise the scope, content and sequence of diagnostic measures |

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| | | <p>etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of gastrointestinal diseases;</p> <p>regularities of the functioning of a healthy human organism and mechanisms of health provision from the perspective of the theory of functional systems; peculiarities of the regulation of functional systems in pathological processes; methods of laboratory and instrumental studies to assess the state of health, medical indications for research, rules of interpretation of their results</p> <p>Competent to: collect</p> | <p>(examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of course, complications and outcomes of diseases of gastrointestinal tract;</p> <p>regularities of the functioning of a healthy human organism and mechanisms of health provision from the perspective of the theory of functional systems; peculiarities of the regulation of functional systems in pathological processes; methods of laboratory and instrumental studies to assess the state of health, medical indications for research, rules</p> | |
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| | | | complaints, patient history and disease and analyse the information obtained; carry out a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret the results; prioritise the scope, content and sequence of diagnostic measures | of interpretation of their results | | |
| 19. | PC-6 | Is able to refer a patient for laboratory, instrumental examination, consultation with specialists, if medically indicated, in accordance with the current procedures of medical care, clinical guidelines (treatment protocols) for medical care, taking into account medical care standards, as well as to refer a patient for specialised medical care in inpatient or day hospital conditions, if | Knowledge of: general issues of the organisation of medical care to the population methods of laboratory and instrumental studies to assess the state of health, medical indications for research, rules of interpretation of their results; procedures of medical care, clinical guidelines (treatment protocols) on the provision of medical care, standards of medical care | General issues of the organisation of medical care for the population Methods of laboratory and instrumental examinations to assess health, medical indications for examinations, rules for the interpretation of their results; medical care procedures, clinical guidelines (treatment protocols) for medical care, standards of medical care | substantiate the need and scope of laboratory examination of the patient; substantiate the need and scope of instrumental examination of the patient; substantiate the need for referral of the patient to specialist doctors; determine medical indications for emergency, including specialised emergency, medical care | Methods to substantiate the need and scope of laboratory examination of a patient; substantiate the need and scope of instrumental examination of a patient; substantiate the need for referral of a patient to specialist doctors; determine medical indications for emergency, including specialised emergency, medical care |

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| | | medically indicated, in accordance with the current | Competent in: justify the need and scope of laboratory examination of a patient; justify the need and scope of instrumental examination of a patient; justify the need to refer a patient to specialist doctors; determine medical indications for emergency, including specialised emergency, medical care | | | |
| 20. | PC-7 | Able to make a differential diagnosis with other diseases/conditions, including acute ones, and to establish a diagnosis with reference to the current International Statistical Classification of Diseases and Related Health Problems (ICD) | knowledge of: etiology, pathogenesis and pathomorphology, clinical presentation, differential diagnosis, course, complications and outcomes of gastrointestinal diseases; Methods of laboratory and instrumental examinations to assess health, medical indications for examinations, | etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, course, complications and outcomes of gastrointestinal diseases; Methods of laboratory and instrumental examinations to assess health, medical indications for examinations, | Analyse the results of the examination of a patient and, if necessary, justify and plan the scope of additional examinations; interpret the results of collecting information about the patient's illness; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; | Methods to analyse the results of a patient's examination and, if necessary, justify and plan the scope of additional examinations; interpret the results of collecting information about the patient's illness; interpret the data obtained during a laboratory examination of the patient; interpret the |

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| | | | <p>rules for interpretation of results; ICD</p> <p>Competent to: analyse the results of the examination of a patient, if necessary justify and plan the scope of additional examinations; interpret the results of the collection of information about the patient's illness; 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 with specialists; conduct differential diagnosis of diseases of internal organs from other</p> | <p>rules for interpretation of results; ICD</p> | <p>interpret the data obtained during consultations with specialists; make a differential diagnosis of internal organ diseases from other diseases</p> | <p>data obtained during an instrumental examination of the patient; interpret the data obtained during consultations with specialists; make a differential diagnosis of internal organ diseases</p> |
| 21. | PC-8 | Is able to develop a treatment plan for a disease or condition and | Knowledge of: modern methods of using pharmaceutical | Modern methods of administering medicines, medical | Formulate a treatment plan for the illness and condition of the patient, taking into | Techniques for drawing up a treatment plan for the disease and the |

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| | <p>prescribe medicines, medical devices, therapeutic nutrition and non-medicinal treatments taking into account the diagnosis, age and clinical picture in accordance with the current health care procedures, clinical guidelines (treatment protocols) on the provision of health care, taking into account health care standards and assess the effectiveness and safety of medicines, medical devices, therapeutic nutrition and other therapies</p> | <p>s, medical devices and medical nutrition for diseases and conditions in patients in accordance with current procedures of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; mechanism of action of pharmaceutical s, medical devices and medical nutrition, indications and contraindications for their use; complications due to their use; modern methods</p> <p>Competent to: make a treatment plan for the disease and condition of the patient, taking into account the diagnosis, age of the patient, clinical presentation of</p> | <p>devices and therapeutic nutrition to patients with diseases and conditions in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account medical care standards; mechanism of action of medicines, medical devices and therapeutic nutrition, medical indications and contraindications for their use; complications resulting from their use; modern methods of non-medical treatment</p> | <p>account the diagnosis, age of the patient, clinical presentation of the illness in accordance with the current health care procedures, clinical guidelines (treatment protocols) on health care, taking into account the standards of health care; prescribe medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical presentation of the illness in accordance with the current health care procedures, clinical guidelines</p> | <p>patient's condition, taking into account the diagnosis, the patient's age and the clinical picture of the disease in accordance with current health care procedures, clinical guidelines (treatment protocols) for the provision of health care in accordance with health care standards; prescribe medicines, medical devices and medical nutrition in accordance with the diagnosis, age and clinical picture of the disease in accordance with current health care procedures</p> |
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| | | | <p>the disease in accordance with the current health care procedures, clinical guidelines (treatment protocols) for the provision of health care, taking into account health care standards; prescribe medicines, medical devices and medical nutrition taking into account the diagnosis, age and clinical presentation of the disease in accordance with the current health care procedures, clinical guidelines for the provision of health care; prescribe medications, medical devices and medical nutrition</p> | | | |
| 22. | PC-9 | Able to provide palliative care in collaboration with specialist doctors and other health care providers | <p>PK-9.1 Knows : Procedures for palliative care</p> <p>Competent to: Prescribe medicines, medical devices and medical</p> | Procedures for palliative care | Prescribe medicines, medical devices and therapeutic food taking into account the diagnosis, age and clinical picture of the disease in accordance with the current | Methods for prescribing medicines, medical devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the |

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| | | | <p>nutrition, taking into account the diagnosis, age and clinical picture of the disease, in accordance with the current health care procedures, clinical guidelines (treatment protocols) on the provision of health care, taking into account health care standards; prescribe non-pharmacological treatment, taking into account the diagnosis, age and clinical picture of the disease, in accordance with the current health care procedures, clinical guidelines (treatment protocols)</p> | | <p>procedures of medical care, clinical guidelines (treatment protocols) on medical care in accordance with the standards of medical care; prescribe non-medical treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures of medical care, clinical guidelines (treatment protocols) on medical treatment</p> | <p>disease, in accordance with the current health care procedures, clinical guidelines (treatment protocols) on the provision of health care, taking into account health care standards; prescribe non-medical treatment, taking into account the diagnosis, age and clinical picture of the disease, in accordance with the current health care procedures, clinical guidelines</p> |
| 23. | PC-10 | <p>Able to organise personalised treatment for patients, including pregnant women, elderly and disabled patients, to assess the effectiveness</p> | <p>Knowledge of: modern methods of administering medicines, medical devices and medical nutrition to patients with diseases and conditions in</p> | <p>Modern methods of administering medicines, medical devices and therapeutic nutrition to patients with diseases and conditions in</p> | <p>Prescribe medicines, medical devices and therapeutic food taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for</p> | <p>Methods for prescribing medicines, medical devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the disease, in</p> |

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| | | and safety of treatment | <p>accordance with current procedures of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account medical care standards; mechanism of action of medicines, medical devices and medical nutrition, medical indications and contraindications for their use; complications due to their use; modern methods of</p> <p>Competent in: prescribing medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease, in accordance with the current health care procedures, clinical guidelines (treatment protocols) for health care,</p> | <p>accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account medical care standards; mechanism of action of medicines, medical devices and therapeutic nutrition, medical indications and contraindications for their use; complications resulting from their use; modern methods of non-medical treatment</p> | <p>medical care, clinical guidelines (treatment protocols) on medical care, taking into account the standards of medical care; prescribe non-medical treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for medical care, clinical guidelines (treatment protocols) on</p> | <p>accordance with the current health care procedures, clinical guidelines (treatment protocols) on the provision of health care, taking into account health care standards; prescribe non-medical treatment, taking into account the diagnosis, age and clinical picture of the disease, in accordance with the current health care procedures, clinical guidelines</p> |
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| | | | taking into account the standards of health care; prescribing non-medical treatment, taking into account the diagnosis, age and clinical picture of the disease, in accordance with the current health care procedures, clinical guidelines (protocols) for health care | | | |
| 24. | PC-13 | Is able to refer a patient in need of medical rehabilitation to a specialist for prescribing and carrying out medical rehabilitation measures, including prescribing and carrying out sanatorium treatment, and carry out medical rehabilitation measures, including when implementing an individual rehabilitation or habilitation programme for persons with disabilities, in | Knowledge of: medical rehabilitation measures, medical indications and contraindications for their implementation, taking into account the diagnosis in accordance with the current procedures of medical care, clinical guidelines (treatment protocols) for medical care, taking into account medical care standards; medical | Measures for a patient's medical rehabilitation, medical indications and contraindications for carrying them out, taking into account the diagnosis in accordance with current procedures for the provision of medical care Clinical recommendations (treatment protocols) for the provision of medical care, taking into account medical care | Determine medical indications for medical rehabilitation measures, including the implementation of an individual rehabilitation or habilitation programme for persons with disabilities, in accordance with existing health-care procedures, clinical guidelines (treatment protocols) on the provision of medical care, taking into account medical care standards; identify medical specialists to carry out rehabilitation | Methods for determining medical indications for medical rehabilitation, including the implementation of an individual rehabilitation or habilitation programme for persons with disabilities, in accordance with current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account |

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| | | <p>accordance with current medical care procedures, clinical guidelines (treatment protocols) for medical care, taking into account the standards</p> | <p>indications and contraindications for sanatorium and spa treatment as a stage of medical rehabilitation; features of medical rehabilitation of elderly and senile patients</p> <p>Competencies: Identify medical indications for medical rehabilitation measures, including individual rehabilitation or habilitation programmes for persons with disabilities, in accordance with current medical care procedures, clinical guidelines (treatment protocols) for medical care, taking into account medical care standards; identify medical specialists to carry out rehabilitation measures for patients in need of medical rehabilitation, taking into</p> | <p>standards; medical indications and contraindications for prescribing sanatorium and spa treatment as part of a patient's medical rehabilitation; special features of medical rehabilitation for elderly and senile patients</p> | <p>measures for a patient who requires medical rehabilitation, taking into account the diagnosis and in accordance with valid regulations</p> | <p>medical care standards; to identify specialist doctors to carry out rehabilitation measures on a patient requiring medical rehabilitation, taking into account the diagnosis</p> |
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| | | | account the diagnosis and in accordance with the | | | |
| 25. | PC-16 | Is able to organise and monitor immunoprophylaxis of infectious diseases in the adult population, prescribe preventive measures for patients taking into account risk factors in accordance with current health care procedures, clinical guidelines (treatment protocols) for health care provision with regard to health care standards and monitor compliance with preventive measures | Knowledge of: principles of specific and non-specific prophylaxis of infectious diseases, national vaccination calendar and calendar of prophylactic vaccinations for epidemic indications; legislation of Russian Federation in the field of health protection, sanitary rules and regulations; preventive measures in accordance with the diagnosis in accordance with the current procedures of medical care, clinical recommendations (treatment protocols) on medical care, taking into account medical standards | The principles of specific and non-specific prophylaxis of infectious diseases, the national calendar of prophylactic vaccinations and the calendar of prophylactic vaccinations for epidemic indications; Russian health legislation, sanitary rules and regulations; preventive measures with regard to the diagnosis in accordance with current health care procedures, clinical recommendations (treatment protocols) on health care, taking into account medical care standards | Organize and carry out immunoprophylaxis for infectious diseases in the adult population in accordance with current health-care procedures, clinical guidelines (treatment protocols) on the provision of medical care, taking into account medical care standards; prescribe preventive measures for patients with risk factors to prevent and detect diseases, including socially significant diseases, at an early stage | Methods for organising and carrying out immunoprophylaxis of infectious diseases in the adult population in accordance with existing health care procedures, clinical guidelines (treatment protocols) on the provision of health care, taking into account medical care standards; to prescribe preventive measures for patients taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases |

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| | | | Competent to: organise and carry out immunoprophylaxis of infectious diseases in the adult population in accordance with current health care procedures, clinical guidelines (treatment protocols) on health care, taking into account the standards of health care; prescribe preventive measures to patients taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases | | | |
| 26. | PC-19 | Able to design healthy lifestyle programmes, including programmes to reduce alcohol and tobacco consumption, to prevent and combat non-medical consumption of narcotic drugs | PKI 19.1 Knowledge of: forms and methods of health education to promote elements of a healthy lifestyle, including programmes to reduce alcohol | Forms and methods of health education to promote elements of a healthy lifestyle, including programmes to reduce alcohol and tobacco | Develop and implement healthy lifestyle programmes, including programmes to reduce alcohol and tobacco consumption and to prevent and combat the non-medical use of narcotic drugs and psychotropic | Techniques for designing and implementing healthy lifestyle programmes, including programmes to reduce alcohol and tobacco consumption and to prevent and combat the non-medical |

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| | | and psychotropic substances, to assess the effectiveness of preventive work with patients | and tobacco consumption, prevent and combat the non-medical use of narcotic drugs and psychotropic substances Competencies: Develop and implement healthy lifestyle programmes, including programmes to reduce alcohol and tobacco consumption and to prevent and combat the non-medical use of narcotic drugs and psychotropic substances | consumption and to prevent and combat the non-medical use of narcotic drugs and psychotropic substances | substances | use of narcotic drugs and psychotropic substances |
| 27. | PC-22 | Able to maintain medical records, including electronically within the MIS | Knowledge of: legislation of the Russian Federation in the field of health care, regulations and other documents governing the activities of medical organisations and medical workers; rules of work in information systems and information and telecommunica | Legislation of the Russian Federation in the field of health care, laws and regulations and other documents governing the activities of medical institutions and medical workers; rules for working in information systems and the Internet; rules for preparing | Complete medical records, including in electronic form; handle patients' personal data and medical secrets; use information systems and the Internet in professional activities | Know how to complete medical records, including electronically; work with personal patient data and medical secrets; use information systems and the Internet in professional activities |

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| | | | <p>tion network "Internet"; rules of medical documentation in medical organisations providing medical care on an outpatient basis, including at home when a medical worker is called</p> <p>Competent in: completing medical documentation, including electronic documentation; working with personal patient data and medical secrets; using information systems and the Internet in professional activities</p> | <p>medical documentation in medical institutions providing outpatient medical care, including at home when a medical worker is called</p> | | |
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4.Scope of the discipline and types of study

The total workload of the course is 1 credit unit (36 academic hours).

| Type of study | Labour input | | Workload per semester (HU) |
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| | volume in units of credit (ZU) | volume in academic hours (HH) | |
| | | | Term 11 |
| Classroom work, including | | | |
| Lectures (L) | 0,1 | 4 | 4 |
| Laboratory Workshops (PL) | | | |
| Practical exercises (PP) | 0,5 | 18 | 18 |
| Seminars (C) | | | |
| Independent student work (ISW) | 0,4 | 14 | 14 |
| Student research work | | | |
| Intermediate attestation pass/fail exam (<i>specify type</i>) | | | credit |
| TOTAL WORKLOAD | 1 | 36 | 36 |

5. Sections of the discipline and competences to be acquired

| No. n/a | Competence code | Name of discipline section | Section content in didactic units |
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| 1. | CC - 1, 4, 5 OPC - 1, 2, 4, 5, 6, 7, 10, 11 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 22 | Systemic lupus erythematosus. Antiphospholipid syndrome . | 1 |
| 2. | CC - 1, 4, 5 OPC - 1, 2, 4, 5, 6, 7, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 19, 22 | Systemic scleroderma. Idiopathic inflammatory myopathies (polymyositis, dermatomyositis). Rheumatic polymyalgia. | 1 |
| 3. | CC - 1, 4, 5 | Systemic vasculitis. | 1 |

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| | OPC - 1, 2, 4, 5, 6, 7, 10 PC - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 19, 22 | | |
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