

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation

APPROVED

Vice-Rector for Academic Affairs

_____ E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **EPIDEMIOLOGY**

Specialty: **31.05.03 DENTISTRY**

Qualification: **DENTIST**

Department: **EPIDEMIOLOGY, MICROBIOLOGY AND
EVIDENCE-BASED MEDICINE**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **72 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for the specialty **31.05.03 DENTISTRY**, approved by Order Ministry of Education and Science of the Russian Federation No. 984 of August 12, 2020.

Developers of the working program:

Sergeeva A.V., Associate Professor, Department of Epidemiology, Microbiology and Evidence-Based Medicine

The program was reviewed and approved at a meeting of the Department of Epidemiology, Microbiology and Evidence-Based Medicine (protocol No. 12 of 15 April, 2021)

Head of the Department of Epidemiology,
microbiology and evidence-based medicine

Doctor of Medical Sciences, Associate Professor O.V. Kovalishena _____

AGREED

Deputy Head of EMA ph.d. of biology _____ Lovtsova L.V.

(signature)

15 April, 2021

1. The purpose and objectives of mastering the academic discipline mastering the theoretical and methodological foundations of the prevention of the most common infectious and non-communicable diseases.

1.1. The purpose of mastering the discipline: *participation in forming the relevant competencies of UC -1; UC - 3; UC -4; UC - 6; UC -8; GPC - 1; GPC - 2; GPC - 4; GPC - 6; GPC - 11; PC - 1; PC - 3; PC - 5; PC - 10; PC - 11; PC - 12*

1.2. Tasks of the discipline:

As a result of completing the discipline, the student should

Know:

- the doctrine of the epidemic process;
- means and methods of disinfection and sterilization used in medical organizations of the dental profile;
- scheduled and emergency immunoprophylaxis;
- epidemiological approach to the study of human diseases, types of epidemiological studies
- the foundations of evidence-based medicine, the system of evidence and the principles of evidence in making informed decisions on the implementation of preventive and therapeutic measures
- prevention of healthcare-associated infections;
- principles of prevention of infectious and non-infectious diseases in dentistry;
- sanitary and hygienic requirements for the device, organization and mode of operation of infectious diseases hospitals, departments, full boxes, semi-boxes and boxed wards in hospitals;
- principles for the implementation of anti-epidemic measures, protection of the population in foci of especially dangerous infections and in natural disasters.

Be able to:

- use the epidemiological approach, the results of epidemiological studies and the principles of evidence-based medicine in the practice of a dentist
- collect an epidemiological history;
- use in daily activities instructive and methodological documents regulating preventive and anti-epidemic work;
- maintain a system of sanitary and anti-epidemic regime in medical organizations of the dental profile;
- use methods of primary and secondary prevention (based on evidence-based medicine), establish cause-and-effect relationships of changes in health status (including dental health) from the impact of environmental factors

Possess:

- an algorithm for the behavior of anti-epidemic measures in an emergency;
- an algorithm for conducting primary anti-epidemic measures in case of detection of infections associated with the provision of medical care.

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline "Epidemiology" refers to the core part of block 1-B1.O.22 "Disciplines (modules)" .

The discipline is taught in 7 semester/ 4 year of study.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

physics, mathematics, informatics, medical informatics and statistics, public health and healthcare, general hygiene, social and hygienic monitoring, clinical disciplines

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:

general surgery, infectious diseases, otolaryngology, ophthalmology, maxillofacial surgery, therapeutic dentistry, surgical dentistry, orthopedic dentistry, orthodontics and pediatric prosthetics, pediatric dentistry.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis 1.2 Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience 1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems	-methods of formal logic -methods for assessing the incidence of the population	- apply the methods of formal logic to analyze the problem situation - calculate incidence rates and interpret socially significant sociological information on their basis	- methods for assessing the incidence of the population to develop measures to optimize the organization of medical care for the population and - a technique for interpreting socially significant sociological information based on incidence rates, the use of sociological knowledge in professional and social activities aimed at protecting and protecting the health of the population - the technique of putting forward a version of the solution to the problem, formulating a hypothesis, guessing the final result
2.	UC -3.	Able to organize and manage the work of the team, developing a team strategy to achieve the goal	3.1 Knows: the problems of selecting an effective team; basic conditions for effective teamwork; the basics of strategic human resource management, regulatory legal acts concerning the	- anti-epidemic system - basics of population morbidity management - organization of epidemiologi	- organize epidemiological studies - organize the application of preventive and anti-epidemic measures - plan	- population morbidity management technologies - an algorithm for organizing epidemiological studies with the choice and justification of

			<p>organization and implementation of professional activities; organizational behavior models, factors of formation of organizational relationships; strategies and principles of teamwork, the main characteristics of the organizational climate and interaction of people in the organization</p> <p>3.2 Able to: determine the management style for the effective team work; develop a team strategy; apply the principles and methods of organizing team activities</p> <p>3.3 Has practical experience in: participation in the development of a team work strategy; participation in teamwork, role distribution in the team interaction</p>	<p>cal studies;</p> <ul style="list-style-type: none"> - organization of preventive and anti-epidemic measures - planning activities for anti-epidemic provision of the population 	<p>activities for anti-epidemic provision of the population</p>	<p>the goal, in coordination with the team with the manifestation of personal initiative</p> <ul style="list-style-type: none"> - an algorithm for the organization and implementation of preventive and anti-epidemic measures - skills of effective interaction with other people, organization of professional cooperation - the skills of formulating a common solution and resolving conflicts based on the coordination of positions and taking into account interests - skills in planning activities for anti-epidemic provision of the population
3.	UC -4.	<p>Able to apply modern communication technologies, including the use of a foreign language(s), for academic and professional interaction</p>	<p>4.1 Knows: the basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements to business communication, modern means of information and communication technologies</p> <p>4.2 Can: express thoughts in Russian and a foreign language in business communication</p> <p>4.3 Has practical experience in: writing texts in Russian and foreign languages related to the professional activity; experience in translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages.</p>	<ul style="list-style-type: none"> - anti-epidemic system - basics of population morbidity management - organization of epidemiological studies; - organization of preventive and anti-epidemic measures - planning activities for anti-epidemic provision of the population 	<ul style="list-style-type: none"> - organize epidemiological studies - organize the application of preventive and anti-epidemic measures - plan activities for anti-epidemic provision of the population 	<ul style="list-style-type: none"> - population morbidity management technologies - an algorithm for organizing epidemiological studies with the choice and justification of the goal, in coordination with the team with the manifestation of personal initiative - an algorithm for the organization and implementation of preventive and anti-epidemic measures - skills of effective interaction with other people, organization of professional

						<p>cooperation</p> <ul style="list-style-type: none"> - the skills of formulating a common solution and resolving conflicts based on the coordination of positions and taking into account interests - skills in planning activities for anti-epidemic provision of the population
4.	UC -6.	<p>Able to identify and implement the priorities of their own activities and ways to improve them based on self-assessment and lifelong learning</p>	<p>6.1 Knows: the importance of planning long-term goals of activity taking into account conditions, means, personal opportunities, stages of career growth, time perspective of development of activity and requirements of the labor market; technology and methodology of self-assessment; basic principles of self-education</p> <p>6.2 Able to: determine the priorities of professional activity and ways to improve it on the basis of self-assessment; control and evaluate the components of professional activity; plan independent activities in solving professional problems</p> <p>6.3 Has practical experience in: planning their own professional activities and self-development, studying additional educational programs</p>	<ul style="list-style-type: none"> - anti-epidemic system - basics of population morbidity management - organization of epidemiological studies; - organization of preventive and anti-epidemic measures - planning activities for anti-epidemic provision of the population 	<ul style="list-style-type: none"> - organize epidemiological studies - organize the application of preventive and anti-epidemic measures - plan activities for anti-epidemic provision of the population 	<ul style="list-style-type: none"> - population morbidity management technologies - an algorithm for organizing epidemiological studies with the choice and justification of the goal, in coordination with the team with the manifestation of personal initiative - an algorithm for the organization and implementation of preventive and anti-epidemic measures - skills of effective interaction with other people, organization of professional cooperation - the skills of formulating a common solution and resolving conflicts based on the coordination of positions and taking into account interests - skills in planning activities for anti-epidemic provision of the population
5.	UC -8.	<p>Able to: create and maintain safe living conditions in everyday</p>	<p>8.1 Knows: factors of harmful influence on</p>	<ul style="list-style-type: none"> - anti-epidemic 	<ul style="list-style-type: none"> - organize the application of preventive 	<ul style="list-style-type: none"> - the skills of recognizing and assessing

		and professional life for the preservation of the natural environment, ensuring sustainable development of society, including in the case of a threat and occurrence of emergency situations and military conflicts	vital activity; algorithms of actions in case of emergencies and military conflicts 8.2 Able to: identify dangerous and harmful factors within the framework of its activities, create and maintain safe living conditions in everyday and professional life 8.3 Has practical experience in: participation in planned exercises to work out the rules of conduct in case of emergencies, first aid; complies with safety regulations at the workplace	system - basics of population morbidity management - organization of preventive and anti-epidemic measures - planning activities for anti-epidemic support of the population in case of emergencies and military conflicts	and anti-epidemic measures - plan activities for anti-epidemic support of the population in the event of emergencies and military conflicts	dangerous situations, risk factors of the environment that affect the health of the population or individual groups of the population, determining ways to protect against them, providing self- and mutual assistance in case of dangers
6.	GPC -1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	1.1 Knows: basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice 1.2 Able to: apply ethical norms and principles of behavior of a healthcare worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representatives) 1.3 Has practical experience in: solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice	fundamentals of the legislation of the Russian Federation, the main regulatory and technical documents for the protection of public health	use educational, scientific, popular science literature, the Internet for professional activities; analyze and evaluate the quality of medical care for the adult population, the state of health of the population, the influence of lifestyle factors, the environment on it, and the organization of medical care.	basic information transformation technologies: text, spreadsheet editors; technique of working on the Internet for professional activities
7.	GPC -2	Able to conduct and realize control of efficiency of activities for prevention, formation of the healthy lifestyle and sanitary and hygienic education	2.1 Knows: the main criteria for the healthy lifestyle and methods of its formation; social and sanitary medical aspects of alcoholism, drug	fundamentals of the legislation of the Russian Federation, the main	use educational, scientific, popular science literature, the Internet for	basic information transformation technologies: text, spreadsheet editors;

			<p>addiction, substance abuse, basic principles of their prevention; forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers; basic hygienic recreational activities that contribute to the health promotion and prevention of the most common diseases; fundamentals of preventive medicine; stages of planning and implementation of communal programs for the prevention of the most common diseases</p> <p>.2 Able to: conduct sanitary and hygienic education among children and adults (their legal representatives) and healthcare workers in order to form a healthy lifestyle and prevention of the most common diseases; carry out sanitary and educational work among children and adults with the aim of forming the healthy lifestyle and prevention of the most common diseases; of children and adults (their legal representatives) conduct aimed at preserving and improving the level of somatic health; develop and implement programs of healthy lifestyle formation, including reduction programs of alcohol and tobacco consumption, prevention and fight against non-medical narcotic drug use and psychotropic substances; develop a plan of preventive measures and implement methods of group and individual prevention of the most common diseases; prescribe preventive measures to</p>	<p>regulatory and technical documents for the protection of public health</p>	<p>professional activities; analyze and evaluate the quality of medical care for the adult population, the state of health of the population, the influence of lifestyle factors, the environment on it, and the organization of medical care.</p>	<p>technique of working on the Internet for professional activities</p>
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			<p>patients taking into account risk factors for prevention and early detection of diseases including cancer; carry out non-drug methods for the prevention of the most common diseases</p> <p>2.3 Has practical experience in: propaganda of healthy lifestyle and prevention of the most common diseases; carrying out sanitary and educational work among children and adults; formation of children and adults (their legal representatives) conduct aimed at preserving and improving the level of somatic health; formation of healthy lifestyle programs, including alcohol and tobacco consumption reduction programs, prevention and fight against non-medical consumption of narcotic drugs and psychotropic substances; development of a preventive action plan of events and implementation of group and individual prevention of the most common diseases; prescription of preventive measures for children and adults taking into account risk factors, oncological and hygienic prevention in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; selection of non-drug methods for the prevention of the most common diseases</p>			
8.	GPC -4	Able to apply medical products, provided by the order of healthcare	4.1 Knows the methodology of collecting anamnesis of	- Basic principles of building a	- Independentl y work with	Skills of independent work with

		<p>delivery, as well as examine patients for the purpose of determining the diagnosis</p>	<p>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, 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>4.2 Able to: 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 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</p>	<p>healthy lifestyle; Principles and methods of conducting sanitary and educational work among the population on the prevention of a number of diseases in various population groups</p>	<p>educational, scientific and reference literature. Draw general conclusions. Develop a work plan for the formation of a healthy lifestyle for various contingents (staff and patients of medical organizations, various professional and social groups), taking into account the sanitary and epidemiological situation, Develop methodological materials aimed at improving the sanitary culture and preventing diseases of the population. Public speaking with them</p>	<p>educational, scientific and reference literature, wording summarizing conclusions. The skills to develop a work plan for the formation of a healthy lifestyle for specific contingents (staff and patients of medical organizations, various professional and social groups), taking into account the sanitary and epidemiological situation. The skills of self-preparation of methodological materials (conversations, lectures, presentations, memos, brochures) aimed at improving the sanitary culture and prevention of diseases of the population and public speaking with them</p>
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			<p>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 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>4.3 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,</p>			
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			<p>consultations of specialist 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 protocols) on the issues of medical care delivery, assistance taking into account the standards of medical care</p>			
9.	GPC -6	Able to: organize patient care, provide primary health care, ensure the organization of work and professional decision-making in case of medical emergency on the prehospital stage, in the conditions of emergency situations, epidemics and in centers of mass destruction	6.1 Knows: methods of collecting complaints and anamnesis of patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of medical care delivery to patients in urgent conditions, in emergency situations, epidemics and in centers of mass destruction in	Features of the provision of first medical care in urgent conditions at the prehospital stage - anti-epidemic system - basics of population morbidity management - organization of preventive	- organize work and make professional decisions in emergency situations, epidemics - to carry out anti-epidemic measures, to protect the population in foci of especially dangerous infections, in case of	algorithm of anti-epidemic measures, protection of the population in foci of especially dangerous infections, during natural disasters

			<p>accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; clinical signs of major emergency conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of work in centers of mass destruction; principles of organization of patient care, first aid treatment</p> <p>6.2 Able to: recognize conditions that require healthcare delivery in an emergency form, including in the conditions of emergencies, epidemics and in the centers of mass destruction, requiring medical assistance in an emergency form; organize the work of medical personnel in emergency situations, epidemics and in centers of mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including (blood circulation and (or) respiration); use medicines and medical products when providing medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment; organize patient care, provide primary health care</p> <p>6.3 Has practical experience in: assessing the condition requiring healthcare delivery in an emergency form, including in emergency situations, epidemics and in the centers of mass</p>	<p>and anti-epidemic measures - planning activities for anti-epidemic provision of the population</p>	<p>deterioration of the radiation situation and natural disasters</p>	
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			destruction; definition of life-threatening conditions, including the state of clinical death (arrest of vital important functions of the human body (blood circulation and (or) breathing) requiring medical care in the emergency form; medical care delivery in emergency form to patients in conditions, constituting life-threatening situations including clinical death (arrest of vital functions of human body (blood circulation and (or) respiration); the use of medicines and medical products in the provision of medical care in case of emergency conditions and epidemics; use of personal protective equipment; organization of patient care, first aid measures			
10.	GPC - 11	Able to: prepare and apply scientific, research and production, design, management and regulatory documentation in the health care system	11.1 Knows: scientific, research and production, design, management and regulatory documentation in the healthcare system 11.2 Able to: prepare scientific, research and production, design, management and regulatory documentation in the healthcare system	scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system, regulatory documentation in the field of providing sanitary and anti-epidemic measures	prepare scientific, research and production, design, organizational, managerial and regulatory documentation in the healthcare system	Principles of scientific and organizational activity
11.	PC - 1	readiness to implement a set of measures aimed at maintaining and strengthening health and including the formation of a healthy lifestyle for the patient (their relatives / legal representatives). Prevention of the occurrence and (or) spread of dental diseases, their early diagnosis, identification of the causes and conditions for the occurrence and	1.1 Knows: General issues of organizing medical care for adults and children Anatomy of the head, maxillofacial region, features of blood supply and innervation, structure of teeth Histology and embryology of the oral cavity and teeth, the main violations of embryogenesis Anatomical and	Legislation of the Russian Federation in the field of healthcare, ensuring the sanitary and epidemiological welfare of the population -Main directive documents (sanitary and epidemiological rules,	draw up sanitary and epidemiological conclusions on compliance / non-compliance with sanitary and epidemiological requirements - draw up expert opinions on	- an algorithm for issuing a sanitary and epidemiological conclusion on the compliance / non-compliance of environmental factors, food and non-food products, incl. items of children's use, conditions of activity of legal entities,

		<p>development, as well as prevention.</p>	<p>functional state of the organs of the maxillofacial region, taking into account age</p> <p>Normal and pathological physiology of the dentition, its relationship with the functional state of other body systems and the levels of their regulation</p> <p>The role of oral hygiene, nutrition and the use of fluoride in the prevention of dental and periodontal diseases</p> <p>The method of collecting an anamnesis of life and diseases, complaints from children and adults (their legal representatives) with dental diseases</p> <p>Goals and objectives of individual and professional oral hygiene</p> <p>Hygienic indices and methods for their determination</p> <p>Methods of examination and physical examination, features of clinical dental examination in children and adults with dental diseases</p> <p>Clinical picture, diagnostic methods, classification of diseases of the teeth, periodontium, oral mucosa, lips in children and adults</p> <p>Clinical picture, diagnostic methods, classification of diseases of the bone tissue of the jaws, peripheral nervous system of the maxillofacial region, temporomandibular joint in children and adults</p> <p>Methods of laboratory and instrumental studies for assessing the state of health, medical indications for conducting studies, rules for interpreting their results</p>	<p>orders, instructions, guidelines) on epidemiological surveillance</p>	<p>the compliance / non-compliance of environmental factors, products, conditions, buildings, structures with established requirements</p> <p>- draw up certificates of state registration of chemical and biological substances introduced into production for the first time and not previously used and preparations manufactured on their basis, potentially dangerous to humans (except for medicines); certain types of products that pose a potential hazard to humans (except for medicines); certain types of products, including food products, imported into the territory of the Russian Federation for the first time;</p>	<p>individual entrepreneurs, territories used by them, buildings, structures, premises, equipment, vehicles to sanitary and epidemiological requirements</p> <p>- an algorithm for issuing expert opinions on the compliance / non-compliance of environmental factors, products, conditions, buildings, structures with established requirements</p> <p>- algorithm for issuing state registration certificates</p>
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			<p>Medical indications and contraindications for the use of additional examination methods</p> <p>Medical devices used in the provision of medical care to children and adults with dental diseases</p> <p>International Statistical Classification of Diseases and Related Health Problems (ICD)</p> <p>The procedure for providing medical care to the adult population with dental diseases</p> <p>The procedure for providing medical care to children with dental diseases</p> <p>Clinical guidelines for the provision of dental care</p> <p>Conditions requiring emergency medical attention</p> <p>Sanitary and epidemiological requirements and issues of organizing sanitary and anti-epidemic (preventive) measures in order to prevent the occurrence and spread of infectious diseases</p> <p>1.2 Able to:</p> <p>Collect complaints, anamnesis of life and disease in children and adults (their legal representatives) with dental diseases, identify risk factors and causes of dental diseases</p> <p>Interpret information received from children and adults (their legal representatives) with dental diseases</p> <p>Apply methods of examination and physical examination of children and adults with dental diseases</p> <p>Interpret examination and physical examination findings in children and adults with dental disease</p> <p>Diagnose diseases of the</p>			
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			<p>pulp and periodontium, periodontal disease, oral mucosa and lips in children and adults with dental diseases of the hard tissues of the teeth</p> <p>Diagnose in children and adults with dental diseases defects of teeth, dentition, dentoalveolar deformities and anomalies of teeth and jaws, complete absence of teeth and prerequisites for their development, injuries of teeth, bones of the facial skeleton and soft tissues of the maxillofacial region</p> <p>To identify risk factors for oncological diseases of the maxillofacial region in children and adults with dental diseases</p> <p>Formulate a preliminary diagnosis, draw up a plan for conducting laboratory, instrumental and additional studies in children and adults with dental diseases in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care</p> <p>Refer children and adults with dental diseases for laboratory, instrumental and additional studies in accordance with the current procedures for the provision of dental care, clinical guidelines, taking into account the standards of medical care</p> <p>Refer children and adults with dental diseases for consultations with specialist doctors in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care</p> <p>Interpret and analyze the</p>			
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			<p>results of consultations by medical specialists of children and adults with dental diseases</p> <p>Justify the need and scope of additional examinations of patients (including X-ray methods)</p> <p>Interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods in children and adults with dental diseases, including X-ray data</p> <p>Conduct differential diagnosis of dental diseases in children and adults</p> <p>Formulate a final diagnosis in accordance with the International Statistical Classification of Diseases and Problems,</p>			
12.	PC - 3	<p>the ability and readiness to carry out anti-epidemic measures and provide medical care in foci of dangerous infections, in case of deterioration of the radiation situation, natural disasters and other emergencies, including participation in medical evacuation.</p>	<p>3.1 Knows: The algorithm for carrying out anti-epidemic measures and providing medical care in foci of dangerous infections, in case of deterioration of the radiation situation, natural disasters and other emergencies, including the procedure for participating in medical evacuation. Rules for the use of personal protective equipment. Requirements for labor protection, fire safety, emergency procedures.</p> <p>3.2 Able to: comply with anti-epidemic measures and provide the necessary medical care in foci of dangerous infections, in case of deterioration of the radiation situation, natural disasters and other emergencies, including taking part in medical evacuation. Use personal protective</p>	<p>Legislation of the Russian Federation in the field of healthcare, ensuring the sanitary and epidemiological welfare of the population, -Main directive documents (sanitary and epidemiological rules, orders, instructions, guidelines) on epidemiological surveillance - The main criteria of public health and risk factors for socially significant and most</p>	<p>Identify the main patterns of development of the epidemic process, including among epidemiologically significant population groups and risk groups at the regional level - Provide activities for primary and secondary prevention of the most common diseases - Take a comprehensive approach to the appointment of laboratory examinations, taking into account the characteristics of laboratory tests</p>	<p>determination of the immune stratum of the population in relation to infections controlled by means of immunoprophylaxis - an algorithm for compiling a vaccination plan (on the example of a specific infection) - an algorithm for assessing the correctness of carrying out preventive vaccinations according to epidemic indications to citizens or certain groups of citizens - an algorithm for assessing the correct storage and transportation of vaccines, immunobiological and medicinal products</p>

			<p>equipment. Comply with the requirements of labor protection, fire safety, emergency procedures.</p>	<p>common diseases, methods and organizational forms of their prevention</p> <ul style="list-style-type: none"> - Disinfection, disinsection and deratization methods used at objects of various categories - National calendar of preventive vaccinations, timing of preventive vaccinations and categories of citizens subject to mandatory vaccination -Methods of using immunobiological drugs -List of medical contraindications to preventive vaccinations - Rules for the storage and transportation of immunobiological medicinal products for immunoprophylaxis - Diagnostic information content of laboratory symptoms and syndromes (the concept of specificity, sensitivity of 	<ul style="list-style-type: none"> - Evaluate the results of standard research methods - Organize medical examinations and preventive measures - Identify high-risk groups - Identify the epidemic focus of infection and organize measures to improve it - Interpret the data of special diagnostic methods - Justify the development of preventive and anti-epidemic programs for the regional level of implementation and organize their implementation - Draw up a plan of preventive and anti-epidemic measures during the introduction of quarantine, to eliminate the outbreak, in the focus of infection - To draw up an act of investigation of cases of food poisoning and occupational diseases. 	<ul style="list-style-type: none"> - algorithm for the formation of the design (scheme) of an epidemiological study - algorithm for calculating the amount of disinfectant required for disinfection in the outbreak - an algorithm for assessing the completeness of preventive measures in a particular situation - skills of working with normative, normative-technical, legislative and legal documentation within the scope of professional activity; - an algorithm for epidemiological surveillance of individual groups and nosological forms of infectious diseases; - methods of epidemiological diagnosis of infections, - methods of collecting social and hygienic information, information about the state of health of the population; - methodology for conducting a retrospective and operational epidemiological analysis of the incidence of the population and epidemiological examination of foci of infectious diseases; - evaluation of the effectiveness of
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				<p>tests, predictive value)</p> <ul style="list-style-type: none"> -List of laboratory methods, taking into account the organizational structure of medical organizations of various types - Fundamentals of clinical epidemiology and evidence-based medicine - Practical and organizational foundations of epidemiological surveillance and its provision - Methods for assessing the quality and effectiveness (epidemiological, social, economic) of preventive and anti-epidemic measures - General principles for the use of laboratory methods and the evaluation of the results obtained for epidemiological monitoring, as well as the diagnosis of infectious diseases 	<p>anti-epidemic measures;</p> <ul style="list-style-type: none"> - an algorithm for drawing up an action plan for the introduction of quarantine, for the elimination of an outbreak, in the focus of infection - an algorithm for issuing an act of investigating cases of food poisoning and occupational diseases
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13.	PC - 5	<p>the ability and willingness to use social and hygienic methods of collecting and medical and statistical indicators of dental morbidity, indicators of the quality of dental care.</p>	<p>5.1 Knows: Rules for registration and features of maintaining medical records, including in the form of an electronic document, in medical organizations of a dental profile Rules for working in medical information systems and the information and telecommunication network "Internet" Job responsibilities of medical workers in medical organizations of the dental profile Organization of the work of dental offices, equipment and equipment of dental offices, departments and clinics Occupational health, safety and fire safety requirements, emergency procedures</p> <p>5.2 Able to: Prepare work plan and work report Fill in medical documentation, including in the form of an electronic document, and control the quality of its maintenance Conduct an analysis of medical and statistical indicators of the incidence of dental diseases Use in your work information systems in the field of healthcare and the information and telecommunication network "Internet" Supervise the performance of the duties of the medical staff at their disposal Use in the work of personal data of patients and information constituting a medical secret</p> <p>5.3 Has practical experience: Drawing up a work plan</p>	<p>Legislation of the Russian Federation in the field of healthcare, ensuring the sanitary and epidemiological welfare of the population, -Main directive documents (sanitary and epidemiological rules, orders, instructions, guidelines) on epidemiological surveillance - basic principles and methodology for carrying out preventive and anti-epidemic measures - modern databases - features of the population's commitment to preventive and anti-epidemic measures</p>	<p>Conduct hygiene education and education of the population, - Work with scientific and reference literature - Use electronic databases - to form the commitment of the population to the implementation of preventive and anti-epidemic measures</p>	<p>- an algorithm for conducting hygienic education and training of citizens, professional hygienic training and certification of officials and employees -assessment of the correctness of the execution of a personal medical book - an algorithm for preparing material for hygienic education and training of decreed groups - the skills of forming the commitment of the population to the implementation of preventive and anti-epidemic measures</p>
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			<p>and a report on their work</p> <p>Maintaining medical records, including in the form of an electronic document</p> <p>Monitoring the performance of official duties by the medical staff at their disposal</p> <p>The use of information systems in the field of healthcare and the information and telecommunication network "Internet"</p> <p>Use in the work of personal data of patients and information constituting a medical secret</p>			
14.	PC- 10	<p>readiness for educational activities to eliminate risk factors for the development of dental diseases, prevent dental diseases, to educate the population in basic hygiene measures of a health-improving nature, self-control skills of the main physiological indicators that contribute to the preservation and promotion of health.</p>	<p>10.1 Knows:</p> <p>Forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers</p> <p>Features of specific and non-specific prevention of dental diseases</p> <p>The main hygienic measures of a health-improving nature that promote health and prevent the occurrence of dental diseases</p> <p>Etiology, pathogenesis, prevention of dental diseases</p> <p>Fundamentals of Preventive Medicine</p> <p>Methods and forms of organization of communication, techniques and methods of attracting the population to training in hygiene measures of a health-improving nature</p> <p>Psychological and pedagogical foundations and methods of using technical teaching aids, information computer technologies, electronic educational and information resources, distance learning technologies and e-learning, including</p>	<p>Legislation of the Russian Federation in the field of healthcare, ensuring the sanitary and epidemiological welfare of the population,</p> <p>-Main directive documents (sanitary and epidemiological rules, orders, instructions, guidelines) on epidemiological surveillance</p> <p>- basic principles and methodology for carrying out preventive and anti-epidemic measures</p> <p>- modern databases</p> <p>- features of the population's</p>	<p>Conduct hygiene education and education of the population,</p> <p>- Work with scientific and reference literature</p> <p>- Use electronic databases</p> <p>- to form the commitment of the population to the implementation of preventive and anti-epidemic measures</p>	<p>- an algorithm for conducting hygienic education and training of citizens, professional hygienic training and certification of officials and employees</p> <p>-assessment of the correctness of the execution of a personal medical book</p> <p>- an algorithm for preparing material for hygienic education and training of decreed groups</p> <p>- the skills of forming the commitment of the population to the implementation of preventive and anti-epidemic measures</p>

		<p>telemedicine technologies</p> <p>Educational technologies and methods for teaching patients and healthcare professionals</p> <p>10.2 Can:</p> <p>Plan, organize and conduct activities within the framework of sanitary and hygienic education among the population, training of patients and medical workers</p> <p>Carry out health education among children and adults with dental diseases in order to form a healthy lifestyle and prevent dental diseases</p> <p>Involve available medical personnel in the planning and development of the content of measures for sanitary and hygienic education among the population, education of patients and medical workers</p> <p>It is reasonable to use technical teaching aids, information computer technologies, electronic educational and information resources, distance educational technologies and e-learning, including telemedicine technologies</p> <p>To carry out an analysis of the measures taken for sanitary and hygienic education among the population</p> <p>10.3 Has practical experience:</p> <p>Planning, organizing and holding an event within the framework of sanitary and hygienic education among the population</p> <p>Planning, organizing and conducting patient and healthcare professional education</p> <p>Promotion of a healthy</p>	<p>commitment to preventive and anti-epidemic measures</p>		
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			<p>lifestyle and prevention of dental diseases</p> <p>Formation in children and adults (their legal representatives) of behavior aimed at maintaining and improving the level of dental health</p>			
15.	PC- 11	<p>ability to apply the basic principles of organization and management in the field of protecting the health of citizens, in medical organizations and their structural divisions</p>	<p>11.1 Knows: Legislation of the Russian Federation in the field of health care and regulatory legal acts that determine the activities of medical organizations.</p> <p>General issues of organizing medical care to the population and management in the field of protecting the health of citizens, in medical organizations and their structural divisions.</p> <p>Responsibilities of employees of medical organizations.</p> <p>Criteria for assessing the quality of medical care.</p> <p>11.2 Knows how to: apply the legislation of the Russian Federation in the field of health care and regulatory legal acts that determine the activities of medical organizations, principles of organization and management in the field of protecting the health of citizens, in medical organizations and their structural divisions.</p> <p>To analyze the quality of medical care, indicators of morbidity, disability and mortality of the population.</p> <p>Work in information - analytical systems.</p> <p>11.3 Has practical experience: application of the Russian Federation legislation in the field of health care and regulatory legal acts that determine the activities of medical</p>	<p>Legislation of the Russian Federation in the field of healthcare, ensuring the sanitary and epidemiological welfare of the population,</p> <p>-Main directive documents (sanitary and epidemiological rules, orders, instructions, guidelines) on epidemiological surveillance</p> <p>- basic principles and methodology for carrying out preventive and anti-epidemic measures</p> <p>- modern databases</p> <p>- features of the population's commitment to preventive and anti-epidemic measures</p>	<p>Conduct hygiene education and education of the population,</p> <p>- Work with scientific and reference literature</p> <p>- Use electronic databases</p> <p>- to form the commitment of the population to the implementation of preventive and anti-epidemic measures</p>	<p>- an algorithm for conducting hygienic education and training of citizens, professional hygienic training and certification of officials and employees</p> <p>-assessment of the correctness of the execution of a personal medical book</p> <p>- an algorithm for preparing material for hygienic education and training of decreed groups</p> <p>- the skills of forming the commitment of the population to the implementation of preventive and anti-epidemic measures</p>

			<p>organizations, the principles of organization and management in the field of public health, in medical organizations and their structural divisions.</p> <p>Provide medical statistics.</p> <p>Monitoring the fulfillment by medical workers occupying the positions of middle and junior medical personnel of medical appointments.</p> <p>Preparation of a report and a plan of their work.</p>			
16.	PC- 12	willingness to participate in scientific research, analysis and public presentation of medical information based on evidence-based medicine and to participate in the implementation of new methods and techniques aimed at protecting public health and reducing dental morbidity.	<p>12.1 Knows: Fundamentals of evidence-based medicine; the main sources of medical information based on evidence-based medicine; methods and forms of public presentation of medical information; basic principles of medical research</p> <p>12.2 Can: Search for medical information based on evidence-based medicine; interpret the data of scientific publications; critically evaluate modern methods of diagnosis, prevention and treatment of diseases from the perspective of evidence-based medicine; justify your choice of methods for diagnosing, preventing and treating dental diseases; prepare a presentation for the public presentation of medical information, the results of scientific research</p> <p>12.3 Has practical experience: Development of algorithms for examination and treatment of adults and</p>	<ul style="list-style-type: none"> - algorithm for critical evaluation of scientific publications - types of epidemiological studies -algorithm for searching for evidentiary information in modern databases - Fundamental s of evidence-based medicine and clinical epidemiology 	<ul style="list-style-type: none"> evaluate scientific publications in terms of evidence-based medicine - search for evidence in modern databases - conduct epidemiological studies 	<ul style="list-style-type: none"> skills in conducting scientific and practical research and presenting research results in the form of presentation, information and analytical materials, articles, reports, reports. - Skills in working with electronic databases

			<p>children with dental diseases in accordance with the principles of evidence-based medicine;</p> <p>search and interpretation of medical information based on evidence-based medicine;</p> <p>public presentation of medical information based on evidence-based medicine;</p> <p>partial participation in scientific research</p>			
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4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
1	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC-2 GPC -4 GPC -6 GPC -11 PC -1 PC -3 PC -5 PC -10 PC -11 PC -12	General epidemiology with the foundations of evidence-based medicine	<p>Epidemiological approach in the study of human pathology. Fundamentals of evidence-based medicine. Brief history of epidemiology. The main stages in the development of the theory and practice of epidemiology. Modern structure of epidemiology. The main goals of epidemiology. Epidemiology in the system of medical education, the relationship of epidemiology with other medical sciences. Wide application of the epidemiological approach in the study of mass non-communicable diseases. Formation of the directions of clinical epidemiology and evidence-based medicine. Principles of evidence in the search for causal relationships. Epidemiology as the main preventive discipline.</p> <p>epidemiological research. Epidemiological research as the basis of epidemiology. Morbidity is the main subject of epidemiology. Morbidity as one of the objective mass phenomena reflecting the impact of adverse factors on the population.</p> <p>Types (options, characteristic features) of epidemiological studies.</p> <p>Types of epidemiological studies.</p> <p>Evaluation of preventive and therapeutic measures based on the principles of evidence-based medicine. Controlled randomized clinical trial (study). The concept of "gold standard", randomization, informed consent of patients in clinical trials and medical practice. Four levels of organization of "masked research" in clinical trials. Database. Search for evidence-based information Sources of evidence-based information. Meta-analysis based on published scientific papers. Four levels of evidence (reliability) of the effectiveness of preventive and / or therapeutic measures.</p>
2	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC-2 GPC -4 GPC -6	Epidemiology of infectious diseases	<p>Epidemic process. Existing definitions of the concept of epidemic process. The role of L.V. Gromashevsky, K.O. Stallybrass, E.N. Pavlovsky, I.I. Elkin. V.A. Bashenina, V.D. Belyakova, B.L. Cherkassky and other domestic and foreign scientists in the creation and development of the doctrine of the epidemic process. Modern idea of the parasitic system. The concept of causality in relation to infectious and parasitic diseases from the standpoint of evidence-based medicine. The role of biological, natural and social factors in the development of the epidemic process. Epidemiological classification of</p>

<p>GPC -11 PC -1 PC -3 PC – 5 PC – 10 PC – 11 PC - 12</p>		<p>infectious diseases. Features of the development of the epidemic process in anthroponoses, zoonoses and saponoses.</p> <p>The doctrine of the epidemic process L.V. Gromashevsky. Modern ideas about the elementary basis of the epidemic process. Definition of the concept of "source" and "reservoir of infection". Definition of concepts mechanism, ways and factors of transmission. The basic law is the transmission mechanism. Possibility of applicability of the transmission mechanism theory to zoonoses and saponoses.</p> <p>The doctrine of natural foci E.N. Pavlovsky.</p> <p>The theory of self-regulation of parasitic systems V.D. Belyakova et al., its main provisions, theoretical and practical significance. Socio-ecological concept of B.L. Cherkassky.</p> <p>Manifestations of the epidemic process.</p> <p>Organization of anti-epidemic activities. Preventive and anti-epidemic measures. The quality and effectiveness of anti-epidemic measures. Evaluation of the effectiveness of preventive and anti-epidemic measures from the standpoint of evidence-based medicine. Varying degree of controllability of infections. Groups of anti-epidemic measures. The main feature of the grouping of measures according to the direction of their action on the elements of the epidemic process.</p> <p>Measures aimed at the source of infection in anthroponoses and zoonoses.</p> <p>Measures aimed at breaking the transmission mechanism.</p> <p>Activities directed at a susceptible organism.</p> <p>Features of the organization of preventive and anti-epidemic measures and their performers.</p> <p>Measures to eliminate the consequences of natural disasters and other emergencies, features of their organization.</p> <p>Modern preventive programs.</p> <p>Immunoprophylaxis. The place of immunoprophylaxis in the system of preventive and anti-epidemic measures, its significance in different groups of infectious diseases. Epidemiological, social and economic significance of immunoprophylaxis in various infectious diseases. Modern international, national and regional programs in the field of immunoprophylaxis and their importance in the implementation of measures to prevent the spread and reduce the level of infectious diseases. Organization and conduct of vaccinations in medical organizations. Use in the practice of immunization of various types of vaccine preparations permitted in accordance with the procedure established by law on the territory of the Russian Federation (domestic and foreign). The quality of vaccination preparations that affect the effectiveness of immunization. Indications and contraindications for vaccination. Vaccination of persons not vaccinated according to the calendar. Evaluation and accounting of post-vaccination reactions and post-vaccination complications. The national calendar of preventive vaccinations as an instructive and methodological document regulating the timing, sequence, indications and scheme for the use of the vaccine. The principles of its compilation. Ways to improve the vaccination calendar. Approaches to the personification of immunoprophylaxis. Emergency immunoprophylaxis (non-specific and specific).</p> <p>Disinfection. Definition of disinfection. Types of disinfection. Preventive and focal (current and final). Disinfection methods. Mechanical, physical and chemical methods. Antimicrobial actions of chemicals - disinfectants: bactericidal, tuberculocidal, virucidal, fungicidal, sporocidal. Levels of disinfectant activity. Release forms of disinfectants. Requirements for ideal disinfectants. Individual means</p>
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			<p>and compositions. The main groups of chemicals used as disinfectants. General characteristics of groups. Sterilization. Concept definition. The value of sterilization in the prevention of nosocomial infections. Pre-sterilization cleaning of medical devices (after disinfection). requirements for its implementation. Disinfection and sterilization equipment. Disinfection chambers.</p> <p>Epidemiology and prevention of individual infectious and parasitic diseases General characteristics of anthroponoses. Concept definition. Grouping of anthroponoses depending on the implementation of the main mechanism of transmission of infectious agents. Sources of infection and their potential and real epidemiological danger. Features of the development and manifestation of the epidemic process in anthroponoses with a different transmission mechanism. The activity of various transmission routes in various infectious diseases. Significance and characteristics of preventive and anti-epidemic measures. Epidemic management capabilities</p>
3	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC -4 GPC -6 GPC -11 PC -16 PC -18 PC -19 PC -21	Hospital epidemiology	<p>Hospital epidemiology, structure and content. Concept definition. Epidemiological, economic and social significance. Factors contributing to the occurrence of HCAI. The concept of microbial colonization. Hospital strains and their characteristics. At-risk groups. Sources of nosocomial infection. Potential role of healthcare professionals in the spread of HCAI.</p> <p>Exogenous and endogenous infection. Natural and artificial (artificial) mechanisms of transmission: the multiplicity and diversity of ways and factors that implement the spread of HCAI. Manifestations of the epidemic process.</p> <p>Sanitary-hygienic and anti-epidemic regime in medical organizations of the dental profile. Prevention of HCAI among medical workers. The content and organization of epidemiological surveillance of HCAI, the features of its implementation in medical organizations of the dental profile.</p> <p>Prevention of occupational infection with HIV, hepatitis viruses. Safety of workplaces in medical organizations of the dental profile. Post-exposure prophylaxis of viral hepatitis and HIV infection.</p>
4	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC -4 GPC -6 GPC -11 PC -16 PC -18 PC -19 PC -21	Epidemiology of emergencies	<p>The concept of "emergency" (ES). Damaging factors of disasters. Basic principles of anti-epidemic organization of medical and dental care in emergencies. Medical and evacuation support under a strict anti-epidemic regime. Emergency prevention.</p>
5	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC -4	Epidemiology of noncommunicable diseases	<p>Definition of the term "epidemiology of non-communicable diseases". Characteristics of manifestations of non-infectious morbidity: intensity, dynamics, structure, internal and external risk factors for the development of pathology, epidemiological surveillance. Stages of planning programs for the prevention of dental diseases. The purpose, objectives of the programs, the choice of methods and means of preventing dental diseases. Criteria for evaluating the effectiveness of programs. Organizational measures for the implementation of</p>

GPC – 6 GPC -11 PC -16 PC -18 PC – 19 PC - 21	prevention programs. Features of carrying out preventive dental measures among various social and age groups of the population
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5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters
	volume in credit units (CU)	volume in academic hours (AH)	11
Classroom work, including		44	44
Lectures (L)	1	10	10
Laboratory practicum (LP)*		-	-
Practicals (P)	1	34	34
Seminars (S)		-	-
Student's individual work (SIW)		28	28
Mid-term assessment		-	-
credit/exam (<i>specify the type</i>)		c	c
TOTAL LABOR INTENSITY	2	72	72

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Name of the section of the academic discipline	Types of academic work* (in AH)					
		L	LP	P	S	SIW	total
1	General epidemiology with the basics of evidence-based medicine	4		8	4		16
2	Epidemiology of infectious diseases	2		14	10		28
3	Hospital epidemiology	4		12	10		21
4	Epidemiology of emergencies				2		4
5	Epidemiology of noncommunicable diseases						
	TOTAL	10	-	34	28		72

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH
		Semester - 7
1	General epidemiology with the basics of evidence-based medicine	2
2	The doctrine of the epidemic process. General epidemiology of infectious diseases.	2
3	Epidemiological features and main directions of HIV infection prevention.	2
4	Epidemiology and prevention of HAIs.	2

1.	7	Current monitoring	Control of mastering the topic	General epidemiology with the basics of evidence-based medicine	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC -4 GPC -6 GPC -11 PC -16 PC -18 PC -19 PC -21	-Typical settlement and graphic works - Interview on situational tasks. - Written and computer testing	3	30
			Monitoring the student's individual work				1-3	100
2	7	Current monitoring	Control of mastering the topic	Epidemiology of infectious diseases.	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC -4 GPC -6 GPC -11 PC -16 PC -18 PC -19 PC -21	- Interview (on control questions) - Written and computer testing	1	20
			Monitoring the student's individual work				30	3
3	7	Current monitoring	Control of mastering the topic	Hospital epidemiology	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC -4 GPC -6 GPC -11 PC -16 PC -18 PC -19 PC -21	- Written and computer testing, - Interviews on situational tasks	30	3
			Monitoring the student's individual work				1-3	50
4	7	Current monitoring	Control of mastering the topic	Epidemiology of emergencies	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC -4 GPC -6 GPC -11 PC -16 PC -18 PC -19 PC -21	- Written and computer testing, - Interviews on situational tasks	30	3
			Monitoring the student's individual work				1-3	50
5	7	Current monitoring	Control of mastering the topic	Epidemiology of noncommunicable diseases	UC -1 UC -3 UC -4 UC -6 UC -8 GPC -1 GPC -4 GPC -6 GPC -11 PC -16 PC -18 PC -19 PC -21	- Abstract - Written and computer testing	30	3
			Monitoring the student's individual work					

6	7	Mid-term assessment	Credit			- Interviews on situational tasks	3	50

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	General epidemiology with the foundations of evidence-based medicine. Guide to practical exercises: textbook / Ed. acad. RAMN, prof. Pokrovsky V.I., prof. Briko N.I - M.: GEOTAR-MED, 2012 (2010). – 400 s.	2	105 + access to the electronic resource http://www.studmedlib.ru
2	Epidemiology. textbook in 2 volumes. Ed. Briko N.I., Zueva L.P., Pokrovsky V.I., Shkarina V.V., Sergiev V.P. Moscow. MIA, 2013		160
3	Epidemiology: textbook / N. I. Briko, V. I. Pokrovsky. - M. : GEOTAR-Media, 2015. - 368 p.	2	1 (also available in the Student Advisor)
4	Hospital epidemiology. Guide to practical exercises: study guide / ed. L. P. Zueva. - M. : GEOTAR-Media, 2015. - 416 p.		30

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Terms and definitions in epidemiology: a dictionary / V. V. Shkarin, A. S. Blagonravova; Shkarin Vyacheslav Vasilyevich; Blagonravova, Anna Sergeevna Nizhny Novgorod State Medical Academy. - 2nd ed., corrected. and additional - Nizhny Novgorod: NGMA, 2015. - Text: electronic.	8	60+ доступ http://nbk.pimunn.net/MegaPro/UserEntry?Action=Link_FindDoc&id=166147&idb=0
2	Epidemiological features of combined infections: monograph / V. V. Shkarin, A. S. Blagonravova; Shkarin, Vyacheslav Vasilievich Blagonravova Anna Sergeevna - Nizhny Novgorod: Publishing house of NizhGMA, 2017. - Text: electronic.	10	2 http://nbk.pimunn.net/MegaPro/UserEntry?Action=Link_FindDoc&id=166590&idb=0
3	Epidemiological reader. Ed. N.I. Briko, V.I. Pokrovsky. Moscow MIA.2011		10
4	Epidemiology of intrauterine infections: textbook / N. Yu. Katkov-va, O. V. Kovalishena, L. Yu. Poslova, L. Yu.; Kovalishena, O. V.; Sergeeva, A. V.; Katkova, N. Yu.; Senyagina, N. E. - Nizhny Novgorod: Remedium Privolzhye, 2019. - Text: electronic.	10	3 http://nbk.pimunn.net/MegaPro/UserEntry?Action=Link_FindDoc&id=166855&idb=0

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8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
1	Internal electronic library system (VEBS)	Proceedings of the teaching staff of the academy: textbooks and manuals, monographs, collections of scientific papers, scientific articles, dissertations, abstracts of dissertations, patents.	From any computer on the Internet, using an individual login and password	Not limited

8.3.2. Electronic educational resources acquired by the University

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
1	DB "Medicine. Healthcare (HPE)" (EBS "Student Consultant")	Educational literature + additional materials (audio, video, interactive materials, test tasks) for higher medical and pharmaceutical education	from any computer on the Internet using an individual login and password	Unlimited
2	Electronic library system "BookUp"	Educational and scientific medical literature of Russian publishers, incl. translations of foreign publications from the computers of the university;	from any computer on the Internet using an individual login and password Subscribed editions are available for reading.	Unlimited
3	Electronic medical library "Doctor's Consultant"	National guidelines in all areas of medicine, clinical guidelines, textbooks, monographs, atlases, pharmaceutical reference books, audio and video materials, ICD-10 and ATC, recent publications in foreign journals with brief annotations in Russian	from any computer located on the Internet, using an individual login and password	Limited
4	Electronic legal reference system "Consultant Plus"	Normative documents regulating the activities of medical and pharmaceutical institutions	from the computers of the scientific library	Unlimited
5	Domestic electronic periodicals	Medical periodicals	from the university computers on the platform of the	Unlimited

			SCIENTIFIC electronic library eLIBRARY.RU Subscribed editions are available for reading.	
6	DB Medline Complete	Foreign full-text database of articles from scientific periodicals and collections of medical and natural science topics from university computers;	from any computer on the Internet, using an individual login and password	Unlimited
7	Electronic collection of the Springer	publishing house Full-text scientific publications (journals, books, articles, scientific protocols, conference materials, etc.) in the natural sciences, medical and humanities	from the university computers	Unlimited
8	Electronic collection "Freedom"	on the platform Science Direct Books and periodicals of the publishing house "Elsevier"	from the university computers	Unlimited
9	Scopus database	International scientific citation abstract database	from the university computers	Unlimited
10	DB Web of Science Core Collection	International scientific citation abstract database	from the university computers	Unlimited
11	DB Questel Orbit	Questel Patent Database	from the university computers	Unlimited

8.3.3 Open access resources

<i>№</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>
1	Electronic catalog "Russian medicine" TsNMB of the First Moscow State Medical University. THEM. Sechenov http://www.scsml.rssi.ru/	Bibliographic descriptions of domestic and foreign books, collections of works, conference materials, articles from domestic journals and collections, dissertations, author's abstracts, deposited manuscripts. Thematically, the database covers all areas of medicine and related fields.	Unlimited
2	Federal electronic medical library of the Central Scientific Library of the First Moscow State Medical University. THEM. Sechenov http://feml.scsml.rssi.ru/feml	Full-text electronic copies of printed publications and independent original electronic publications that have no analogues recorded on traditional media.	Unlimited
3	Electronic library of dissertations of the RSL	Provides the ability to search for dissertations and abstracts of	Unlimited

	http://diss.rsl.ru/?menu=disscatalog/	dissertations.	
4	Scientific electronic library eLIBRARY.RU http://elibrary.ru/defaultx.asp	The largest Russian information and analytical portal in the field of science, technology, medicine and education, containing abstracts and full texts of more than 25 million scientific articles and publications, including electronic versions.	Unlimited
5	http://www.dart-europe.eu/basic-search.php	Full texts of dissertations in English and other European languages	Unlimited
6	http://www.cochrane.org/ Evidence based medicine database.	Open access summaries of informational systematic reviews of medical materials.	Unlimited
7	http://www.ncbi.nlm.nih.gov/books	A library of medical and biological science books maintained by the National Center for Biotechnology Information (NCBI, USA).	Unlimited

9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

Lectures are available for:

- lecture hall equipped with presentation equipment, projector, screen, computer/laptop
- a set of films-slides for overhead to lectures in accordance with the plan of lectures

For practical training there is:

7 classrooms equipped with educational furniture, educational boards, stands, diagrams, and other demonstration materials.

The computer class (room 227) is equipped with 11 PCs, has a package of training programs, sets of test tasks (intermediate, final).

Premises and their functional purpose

№	Cabinet number	Name	Cabinet Area M ²	Quantity Workers places	Employment in hours
1	240	Study room	44,4 M ²	30	8
2	239	Study room	43 M ²	42	8
3	238	Teaching room	20,8 M ²	5	8
4	237	Teaching room	21,6 M ²	5	8
5	236	Teaching room	21,6 M ²	15	8
6	225	Teaching room	19,8 M ²	5	8
7	226	Study room	20,6 M ²	21	8
8	227	Teaching room (office of the head of the department)	25,9 M ²	22	8
9	228	eaching room (office of the head of the department)	21,9 M ²	8	8
10	229	Teaching room	21,9 M ²	3	8
11	230	Study room	24.3 M ²	27	8
12	231	Study room	26.5 M ²	22	8
13	233	Laboratory	29,8 M ²	2	8
14	234	Laboratory	39,3 M ²	20	8

9.2. List of equipment for classroom activities for the discipline

1. Tables for practical exercises

№	Name of the topic of the practical lesson	Name of the tables	№№ таблиц
1	Organization and implementation of preventive and anti-epidemic measures. Classification of infectious diseases.	Grouping types of epidemics according to various criteria. Mechanism of transmission of infection. Periods of contagiousness in some infectious diseases. Scheme of anti-epidemic measures in the outbreak. Terms of the incubation period for certain infectious diseases. Sources of infection and routes of transmission.	1 2 3 4 5 6
2	Immunoprophylaxis of infectious diseases.	Hepatitis B vaccination schedule. Preventive vaccination calendar for epidemic testimony. Preventive vaccination calendar (routine vaccination). The list of drugs recommended for non-specific prophylaxis of influenza and SARS.	7 8 9 10
3.	Fundamentals of disinfection, disinsection, deratization. Sterilization of medical devices.	Characteristics of disinfectants. Steam disinfection chambers. Stationary steam chambers. Krupin's camera. General view of Rozanov's disinfection chamber.	11 12 13 14 15
4.	Epidemiology, anti-epidemic measures, prevention, epidemiological surveillance in intestinal anthroponotic infections	Dispensary observation of patients with typhoid fever and paratyphoid fever. Specific prevention of typhoid fever. Cholera cholera pandemics Vibrio cholerae resistance. Sources, ways and factors of transmission in intestinal diseases.	16 17 18 19 20 21
5.	Epidemiology, anti-epidemic measures, prevention, epidemiological surveillance in anthroponotic respiratory tract infections.	Harbingers of the rise and fall of the incidence of meningococcal infection.	22
6.	Sanitary protection of the country's territory from the importation and spread of quarantine infections. Epidemiology, anti-epidemic measures, prevention, epidemiological surveillance in hemorrhagic fevers	Scheme of the annual cycle of plague in small ground squirrels. Gopher flea. Flea development time. Ecology of small ground squirrels and seasonality of plague epizootics.	23 24 25 26
7.	Epidemiology, anti-epidemic measures, prevention, epidemiological surveillance in parasitic diseases	Evaluation of the epidemiological effectiveness of antihelminthic measures. System of antihelminthic measures. Three-month complex parasitic system (with echinococcosis). Diphyllobothriasis. Human helminth eggs. Ways of distribution of ascaris and whipworm eggs in cities and rural settlements. Ascariasis. Echinococcosis and alveococcosis. Opisthorchiasis. Epidemiological classification of helminths. Dimensions of adults of some helminths. Life span of helminths in the human body. Trichocephalosis.	27 28 29 30 31 32 33 34 35 36 37 38 39

		The scheme of transmission of helminths (according to E.S. Leykina.) The structure of the mosquito and the stages of its development. The duration of mosquito development depending on temperature. Types of the causative agent of human malaria.	40 41 42 43 44
8.	Epidemiology, anti-epidemic measures, prevention, epidemiological and epidemiological surveillance in zoonotic infections.	The biological cycle of tick development. Plague. World distribution of tularemia. Scheme of transmission of the causative agent of tularemia during tick metamorphosis. Three-membered simple parasitic system (with lousy typhus). Mechanism of transmission of typhus. Tick-borne encephalitis (source of infection and route of transmission). Japanese encephalitis (scheme of virus circulation in natural and anthropurgic foci). Some types of ixodid ticks of epidemiological significance. Gamasid mites and their control. Pasture ticks and their control. Mosquito. Rickettsioses. Tularemia (according to E.N. Pavlovsky)	45 46 47 48 49 50 51 52 53 54 55 56 57
9.	Epidemiology, anti-epidemic measures, and prevention, epidemiological surveillance in HCAI. Fundamentals of the sanitary and anti-epidemic regime in health care facilities. Processing of medical devices.	Skin and soft tissue infections. abdominal infections. Catheter - associated infections	58 59 60
10.	Epidemiology, anti-epidemic measures, prevention and epidemiological surveillance in parenteral viral hepatitis and HIV infection.	Prevention of viral hepatitis among medical workers.	61
Всего таблиц			61

2. List of videos:

	Title of the film	Title of the topic of the practical session
1.	Geography and diseases.	Epidemiology, anti-epidemic measures, prevention, epizootic and epidemiological surveillance in zoonotic infections.
2.	Rabies.	Epidemiology, anti-epidemic measures, prevention, epizootic and epidemiological surveillance in zoonotic infections.
3.	Anti-plague suit.	Epidemiology, anti-epidemic measures, prevention, epizootic and epidemiological surveillance in zoonotic infections. Sanitary protection of the country's territory from the importation and spread of quarantine infections.
4.	Deratization.	Epidemiology, anti-epidemic measures, prevention, epizootic and epidemiological surveillance in zoonotic infections.
5.	Disinfection and sterilization of medical devices in a medical organization.	Fundamentals of disinfection, disinsection, deratization. Sterilization of medical devices.
6.	Vaccinations at the clinic.	Immunoprophylaxis of infectious diseases

7.	Death Virus (HIV)	Epidemiology, anti-epidemic measures, prevention, epidemiological surveillance in HIV infection.
8.	HIV is positive.	Epidemiology, anti-epidemic measures, prevention, epidemiological surveillance in HIV infection.
9.	Kill the invisible (Ebola).	Epidemiology, anti-epidemic measures, prevention, epizootic and epidemiological surveillance in zoonotic infections.
10.	Foreign experience of medical waste management (CD).	Epidemiology, PEM and prevention, epidemiological surveillance in HCAI. Fundamentals of the sanitary and anti-epidemic regime in medical organizations. Processing of medical devices.
11.	Medical waste management system in medical organizations of the Russian Federation (CD).	Epidemiology, PEM and prevention, epidemiological surveillance in HCAI. Fundamentals of the sanitary and anti-epidemic regime in medical organizations. Processing of medical devices.
12.	Thermal destruction of medical waste in medical organizations (CD).	Epidemiology, PEM and prevention, epidemiological surveillance in HCAI. Fundamentals of the sanitary and anti-epidemic regime in medical organizations. Processing of medical devices.
13.	Population immunization safety (CD).	Immunoprophylaxis of infectious diseases
14.	Anti-Plague Hospital.	Epidemiology, anti-epidemic measures, prevention, epizootic and epidemiological surveillance in zoonotic infections. Sanitary protection of the country's territory from the importation and spread of quarantine infections.
15.	Hand processing.	Fundamentals of disinfection, disinsection, deratization. Sterilization of medical devices.

1. folders with a selection from SANPIN for independent classroom and extracurricular work of students - 123
2. Collections of "Orders, instructions, instructions" for practical exercises.
3. Sets of immunobiological preparations for practical exercises.
4. Sets of disinfectants for practical exercises.
5. Stands in thematic classes: "Epidemiological process" (27), "Immunoprophylaxis" (10, "Disinfection" (13), "Parasitology" (13), "Indication of bacteriological weapons" (12).
6. Library. 766 copies
7. Stands on the history of epidemiology.
8. Stands for scientific and educational work.
9. Stand on new infections in the world.
10. Stand "Training schedule", which contains information about the plan and schedule of lectures and practical classes, working off, consultations and exams
11. Stand "works of the department".
12. Stand "infectious incidence in Russia".
13. Stuffed animals.
14. Sets of tests.
15. Collections of problems.
16. Models of disinfection chambers 5 pcs.
17. Model of an anti-plague suit.
18. Multimedia complex - 3;
19. LCD TVs - 1;
20. Personal computers - 7;
21. First aid kit for medical care -1.

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN100 30 LLC "Softline Trade" from 04.12.2020

10. List of changes to the working program (to be filled out by the template)

№	Date of changes	No. of the minutes of the meeting of the department, date	Content of the change	Signature
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Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of
Name of the department

CHANGE REGISTRATION SHEET

working program for the academic discipline
NAME OF THE ACADEMIC DISCIPLINE

Field of study / specialty / scientific specialty: _____
(code, name)

Training profile: _____
(name) - for master's degree programs

Mode of study: _____
full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting
Protocol No. _____ of _____ 20__

Head of the Department

department name, academic title

signature

print name