

Summary of the working program of the academic discipline

« **Public health and health care** »

General Educational Program of higher education (specialist's degree programs) 31.05.03
Dentistry.

Department: Social Medicine and Health Care Management

1. The purpose of mastering the discipline: participation in forming the relevant competencies of UK-1; GPC-4, GPC -11; GPC-12; GPC-13; PC-5, PC-8, PC-10.

2. Position of the academic discipline in the structure of the General Educational Program (GEP).

2.1. The discipline “**PUBLIC HEALTH AND HEALTH CARE**” refers to the corepart of Block 1 of GEP HE.

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

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

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisitionmetric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1	Able for critical analysis of problematic situations based on systematic approach; ability to strategize	IUK 1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis IUK 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 IUK 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	Basic concepts and methods of sanitary statistics, basic medical and demographic indicators, principles of organizing the fight against socially significant diseases. The complex relationship between dental health, nutrition, general health, disease, and drug use. The system of dental care, the principles of public health protection, methods for calculating the indicators of dental morbidity	Apply the methods of sanitary statistics in practice, determine trends in dental morbidity, navigate social policy in the field of health development and health protection	Methods of sanitary statistics, methods of analyzing basic medical - demographic indicators and their trends, methods of planning medical care, incl. in dentistry, calculation methods in spreadsheets

				and the activities of dental organizations		
2.	GPC-4	Able to conduct and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population;	<p>IGPC 4.1 Knows: the main criteria for a healthy lifestyle and methods of its formation; socio-hygienic and medical aspects of alcoholism, drug addiction, substance abuse, the basic principles of their prevention; forms and methods of sanitary and hygienic education among patients (their legal representatives), medical workers; basic health-improving hygiene measures that promote health and prevent the most common diseases; fundamentals of preventive medicine; stages of planning and implementation of community programs for the prevention of the most common diseases</p> <p>IGPC 4.2 Is able to: conduct health education among children and adults (their legal representatives) and medical workers in order to form a healthy lifestyle and prevent the most common diseases; to carry out sanitary and educational work among children and adults in order to form a healthy lifestyle and prevent the most common diseases; to form in children and adults (their legal representatives) behavior aimed at maintaining and improving the level of somatic health; develop and implement programs for the formation of a healthy lifestyle, including programs to reduce the consumption of alcohol and tobacco, prevent</p>	<p>Methods for assessing the state of dental health of the population of various age and sex groups. Principles of hygienic education and hygienic education of the population, the concept and principles of a healthy lifestyle, the main provisions of the Federal Law of the Russian Federation "On sanitary well-being ...", risk factors for the development of dental diseases, incl. environmental, the content of the concepts of primary, secondary and tertiary prevention in dentistry.</p>	<p>Prepare material on hygienic education (lecture, conversation, sanitary bulletin, etc.) Maintain records of preventive visits. Conduct an analysis and prepare a report on preventive work.</p>	<p>Skills of hygienic education, organization of preventive examinations. Methods for calculating the indicators of the effectiveness of preventive medical examinations</p>

			<p>and combat the non-medical consumption of narcotic drugs 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 patients, taking into account risk factors for the prevention and early detection of diseases, including cancer; select and prescribe drugs and non-drug methods for the prevention of the most common diseases</p> <p>IGPC 4.3 Has practical experience in:</p> <p>promotion of a healthy lifestyle and prevention of the most common diseases; carrying out sanitary-educational work among children and adults; formation in children and adults (their legal representatives) of behavior aimed at maintaining and improving the level of somatic health; formation of healthy lifestyle programs, including programs to reduce alcohol and tobacco consumption, prevent and combat the non-medical consumption of narcotic drugs and psychotropic substances; development of a plan of preventive measures and the implementation of methods of group and individual prevention of the most common diseases; prescribing preventive measures for children and adults, taking into account risk factors, oncological and hygienic prevention in accordance with the procedures for</p>			
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3.	GPC-11	Able to implement the principles of quality management in professional activities	<p>IGPC 11.1 Knows: basic concepts of the quality management system of a medical organization; requirements for ensuring internal quality control and safety of medical activities</p> <p>IGPC 11.2 Is able to: analyze the quality of medical care for dental patients; ensure internal quality control and safety of medical activities; organize the work and monitor the performance of official duties of the medical personnel at their disposal</p> <p>IGPC 11.3 Has practical experience: carrying out work to ensure internal quality control of medical care for dental patients and medical safety</p>	Regulations of the Ministry of Health of Russia and FFOMS on quality control of medical care. Indicators of the quality of dental care.	Calculate the main performance indicators of dental medical organizations. Assess the volume, quality and costs of medical care of dental institutions, use economic methods to assess its effectiveness and plan activities	Skills in calculating the volume, quality and cost indicators of medical care, indicators of its economic efficiency, developing measures to improve it; managerial decision-making skills
4.	GPC-12	Able to implement and monitor the effectiveness of medical rehabilitation of a dental patient	<p>IGPC 12.1 Knows: the procedures for organizing medical rehabilitation and sanatorium treatment; methods of medical rehabilitation of the patient, medical indications and medical contraindications for their implementation, taking into account the diagnosis in accordance with the current procedures for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; medical indications and medical contraindications for medical rehabilitation measures in patients</p>	Procedures for organizing medical rehabilitation and sanatorium treatment; methods of medical rehabilitation of the patient, medical indications and medical contraindications for their implementation, taking into account the diagnosis in accordance with the	Develop an action plan for medical rehabilitation in patients with dental diseases in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; determine medical indications for medical	Has practical experience in: drawing up an action plan for the medical rehabilitation of a patient with dental diseases in accordance with the current procedure for medical rehabilitation, clinical recommendations, taking into account the standards of medical care; carrying out medical rehabilitation measures for patients with dental diseases

			<p>with dental diseases; medical indications for referring patients with dental diseases to doctors - specialists for the appointment of medical rehabilitation measures, sanatorium and resort treatment; the procedure for providing medical care to the adult population in case of dental diseases; the procedure for providing medical care to children with dental diseases; ways to prevent or eliminate complications, side effects, adverse reactions, including serious and unforeseen, resulting from medical rehabilitation of children and adults with dental diseases</p> <p>IGPC 12.2 Able to: develop an action plan for medical rehabilitation in patients with dental diseases in accordance with the current procedures for organizing medical rehabilitation, clinical guidelines, taking into account the standards of medical care; determine medical indications for medical rehabilitation of patients with dental diseases in accordance with the current procedure for organizing medical rehabilitation, clinical guidelines, taking into account the standards of medical care; refer patients with dental diseases for a consultation with specialist doctors for the appointment and implementation of medical rehabilitation, sanatorium treatment, in accordance with the current procedures for organizing medical rehabilitation and sanatorium treatment, clinical</p>	<p>current procedures for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; medical indications and medical contraindications for medical rehabilitation measures in patients with dental diseases; medical indications for referring patients with dental diseases to doctors - specialists for the appointment of medical rehabilitation measures, sanatorium and resort treatment; the procedure for providing medical care to the adult population in case of dental diseases; the procedure for providing medical care to children with dental diseases; ways to prevent or eliminate complications, side effects, adverse reactions, including</p>	<p>rehabilitation of patients with dental diseases in accordance with the current procedure for organizing medical rehabilitation, clinical guidelines, taking into account the standards of medical care; refer patients with dental diseases for a consultation with specialist doctors for the appointment and implementation of medical rehabilitation, sanatorium and resort treatment, in accordance with the current procedures for organizing medical rehabilitation and sanatorium and resort treatment, clinical recommendations, taking into account the standards of medical care; evaluate the effectiveness and safety of measures for the medical rehabilitation of patients with dental diseases in accordance</p>	<p>in accordance with the current procedure for organizing medical rehabilitation, clinical recommendations, taking into account the standards of medical care; referring patients with dental diseases for consultation with specialist doctors; evaluation of the effectiveness and safety of measures for the medical rehabilitation of patients with dental diseases.</p>
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5.	GPC-13	Able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, and communication technologies taking into account the basic requirements of information security	IGPC 13.1 Knows: the possibilities of reference and information systems and professional databases; methods of information search, information and communication technologies; modern medical and biological terminology; basics of information security in	Directions of informatization of health care, the possibility of using information, telecommunications, telemedicine technologies for the purposes of	Use medical information resources, incl. personalized data of patients in everyday practice basics of telemedicine	Computer skills, obtaining information from various sources, working with information in global computer networks, electronic document management

			<p>professional activity IGPC 13.2 Knows how to: apply modern information and communication technologies to solve the problems of professional activity; to carry out an effective search for information necessary to solve the problems of professional activity using reference systems and professional databases; use modern medical and biological terminology; master and apply modern information and communication technologies in professional activities, taking into account the basic requirements of information security IGPC 13.3 Has practical experience in: using modern information and bibliographic resources, using special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security</p>	<p>diagnostics, treatment, prevention, professional training.</p>		
6.	PC-5	<p>Able and readiness to use social and hygienic methods of collection and medical and statistical indicators of dental morbidity, indicators of the quality of dental care</p>	<p>IPC 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</p>	<p>Methodology of medical and statistical research. Methods of scientific analysis. Methods of statistics. Sampling principles. use of information computer systems in medicine and healthcare</p>	<p>Perform statistical processing of experimental data</p>	<p>Skills in organizing and conducting research, statistical analysis of medical data, assessing the organization's management system and developing measures to improve its efficiency</p>

			<p>Occupational health, safety and fire safety requirements, emergency procedures</p> <p>IPC 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>IPC 5.3 Has practical experience: Drawing up a work plan and a report on their work Maintaining medical records, including in the form of an electronic document Monitoring the performance of official duties by the medical staff at their disposal The use of information systems in the field of healthcare and the information and telecommunication network "Internet" Use in the work of personal data of patients and information constituting a medical secret</p>			
7.	PC-8	Readiness to conduct an examination of temporary disability, participate in a medical and social examination, ascertain the biological	<p>IPC 8.1 Knows: The procedure for issuing certificates of incapacity for work Medical indications for referral to a medical and</p>	Fundamentals of organization and legal aspects of the examination	Conduct an examination of temporary disability, determine the need for	Skills in conducting an examination of working capacity, preparation of

		death of a person	<p>social examination</p> <p>Medical documentation requirements</p> <p>IPC 8.2 Able to: Determine the signs of temporary disability in adults with dental diseases, temporary disability in caring for a sick child suffering from a dental disease</p> <p>Prepare medical documentation for referral of adults and children with dental diseases to federal state institutions of medical and social expertise</p> <p>IPC 8.3 Has practical experience: Conducting an examination of temporary disability in adults with dental diseases, temporary disability to care for a sick child suffering from a dental disease</p> <p>Registration of the necessary medical documentation for conducting a medical and social examination in federal state institutions of medical and social examination</p> <p>Referral of children and adults with dental diseases for medical and social expertise</p> <p>Issuance of a certificate of incapacity for work, including to persons caring for a sick family member</p>	of temporary and permanent disability, rules for issuing relevant documentation, regulations for referring patients to the MSE	referral of patients to the MSE, draw up the relevant documentation	relevant documentation
8.	PC-10	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>IPC 10.1 Knows: 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</p>	Fundamentals of preventive medicine aimed at improving the health of the population. Methods of hygienic education and training.	Promote a healthy lifestyle; maintain medical documentation of various nature in dental outpatient and inpatient facilities; carry out work to promote dental health, aimed at preventing	Methods of organizing primary prevention of dental diseases in any age group, formation of motivation to maintain the dental health of individuals, families and society, including the rejection of bad habits that affect the state

			<p>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 telemedicine technologies</p> <p>Educational technologies and methods for teaching patients and healthcare professionals</p> <p>IPC 10.2 Can: Plan, organize and conduct activities within the framework of health and hygiene education among the population, training 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</p>		<p>diseases; use methods of primary and secondary prevention (based on evidence-based medicine)</p>	<p>of the cavity mouth</p>
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			<p>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>IPC 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 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>			
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4. Volume of the academic discipline and types of academic work

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

Type of educational work	Labor intensity		Labor intensity (AH) in semesters
	volume in credit units (CU)	volume in academic hours (AH)	
			5
Classroom work, including	1,22	44	44
Lectures (L)	0,28	10	10
Laboratory practicum (LP)*			
Practicals (P)	0,94	34	34
Seminars (S)			
Student's individual work (SIW)			
Mid-term assessment	0,78	28	28
credit/exam (<i>specify the type</i>)			credit
TOTAL LABOR INTENSITY	2	72	72

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

№	Competence code	Section name of the discipline	The content of the section in teaching units
1	UK-1; GPC-4, GPC -11;	General Public Health and Health Issues	Public health and public health service as a science and a subject of the study. Health, public health, estimation of health. Concept of quality of life.

	GPC-13; PC-5, PC-10		Prevention of dental diseases. Dental check-up.
2	UK-1; GPC-13; PC-5, PC-10	Medical statistics, organization of social and hygienic research	Biostatistics: definition, goals and parts. Descriptive, analytic and vital statistics. Quantitative measurements. Types of rates. Descriptive statistics. Measures of central tendency and measures of dispersion: definitions, characteristics, examples. Standard error of the mean. Student's test.
3	UK-1; GPC-4, GPC-13; PC-5, PC-10	Basic medical, demographic and morbidity indicators of the population, including dental morbidity	Vital statistics, its goals and tasks. The main standard forms for registration of vital events. Natality and mortality rates in Russia and other countries. Vital statistics. Specific measurements, their definitions, calculation. Morbidity and disability, their definitions, importance and calculation. ICD-10: history, characteristic, usage. Morbidity rates, methods of the study, sources of disease surveillance. Terminology according to WHO: incidence, prevalence, point prevalence, other specific parameters, their calculation.
4	UK-1; GPC-4, GPC-11; GPC-12; GPC-13; PC-5, PC-8, PC-10	Organization of dental care for the population. Examination of temporary and permanent disability	Dental clinic, its functions and ways of work, the main parameters of activity. Management of work of dentist, orthopedist, and orthodontist. Dispensary measures. Organization of in-patient care to patients with maxillofacial diseases and injuries. Estimation of dentist's activity for maxillofacial surgery hospital. Prevention of dental diseases. Organization of dental health service to children and pregnant women. Dental check-up.
5	UK-1; GPC-4, GPC-11; GPC-12; GPC-13; PC-5,	Management of medical organizations and health economics	Management of dental health service. Classification of dental outpatients' clinic. Paid dental health service. Dental orthopedic service to population. Management of inpatient care to patients with maxillofacial diseases and injuries. The main parameters of quality and efficiency of oral surgery.