Speciality “General Medicine”

ACADEMIC DISCIPLINE “PUBLIC HEALTH”

Academic discipline outline	Theoretical foundations of the academic discipline "Public Health and Healthcare." Public health and healthcare as a science, academic discipline, and field of practical activity. Healthcare systems. International cooperation in healthcare. Medical statistics. Fundamentals of medical statistics and evidence-based medicine. Presentation and analysis of data from statistical research. Population health and methods of its study. Medical demography. Methods for calculating and analyzing demographic indicators. Morbidity and disability in the population. Methods for studying morbidity. International statistical classification of diseases and health-related problems. Modern prevention challenges. Public health protection. Primary healthcare. Organization of medical care for women and children. Organization of activities of bodies and institutions conducting state sanitary supervision in the Republic of Belarus. Modern prevention issues. Health-preserving technologies. Specialized medical care. Organization of work on disability expertise and medico-social examination. Quality management of medical care. Healthcare management. Main principles of the state policy of the Republic of Belarus in the field of healthcare. Strategic development of healthcare in the Republic of Belarus. Organization of outpatient medical care for the adult population. Organization of inpatient medical care for the population. Organization of emergency medical services for the population.
Resulting skills	Characteristics of the demographic situation and development of measures to improve it within the administrative territory. Analysis of morbidity indicators in the population over time. Risk assessment of factors influencing public health. Analysis of disability indicators and development of measures to reduce disability in the population of the administrative territory. Calculation and analysis of healthcare provision indicators for the population within the administrative territory. Calculation and analysis of staffing indicators for healthcare organization. Calculation and analysis of activity indicators of healthcare organizations. Analysis of healthcare organizations' activities based on the end results model. Processing of incapacity sheets in typical situations. Calculation of planned activity indicators for healthcare organizations based on normative and comparative methods. Calculation of economic effects and assessment of economic efficiency from morbidity reduction. Calculation and

	evaluation of the medical effectiveness of new treatment methods. Calculation and assessment of "cost-effectiveness" analysis indicators.
Learning outcomes	A student must: **know:** principles of the state policy of the Republic of Belarus in the field of public health; fundamentals of legislation of the Republic of Belarus in healthcare, modern concepts, and prospects for the development of healthcare in Belarus; directions of activities of the World Health Organization and other international organizations on public health issues and international cooperation in healthcare; basic principles of the activities of the national healthcare system and organization of medical care for the population; key provisions of the Concept of National Security of the Republic of Belarus, prevention programs; features of existing healthcare systems in Europe and the world; fundamentals of management in healthcare, healthcare management systems; public health indicators, their characteristics in the Republic of Belarus, and the factors influencing them; tasks, features of the structure and activities of healthcare organizations, basics of analyzing the activities of healthcare organizations; statistical methods for studying public health and healthcare organization activities; basics of medical expertise in healthcare organizations; main principles, forms, methods, and means of hygienic education and upbringing of the population; fundamentals of planning, financing, features of economic analysis of healthcare organizations' activities; structure and main functions of the state sanitary supervision service in the Republic of Belarus; main forms of entrepreneurial activity in healthcare, organization of planning, economic, and financial activities of healthcare organizations, fundamentals of pricing in healthcare; **be able to:** apply statistical research methods in practical and scientific activities; calculate statistical values using computer technologies, assessing the significance of sample statistical indicators and their differences;

	evaluate the impact of risk factors on the development of pathological processes, the occurrence of relapses, and complications based on principles of evidence-based medicine; fill out basic accounting forms of medical documentation of healthcare organizations; calculate key health indicators of the population using computer technologies; calculate main indicators and analyzing the activities of healthcare organizations; plan the activities of healthcare organizations based on state minimum social standards and development indicators of healthcare in the administrative territory; calculate the medical, social, and economic effectiveness of implemented measures in the healthcare system, as well as new diagnostic methods; **master:** skills in statistical analysis; basic methods of processing scientific data; methods for assessing the health status of the population; methods for evaluating the activities of healthcare organizations; methods for making managerial decisions; skills in developing a set of preventive measures; methods for assessing effectiveness in healthcare.
Semester(s)	8,9 semesters
Prerequisite	General Hygiene. Radiation and Environmental Medicine. Pediatrics. History of Medicine. Internal Medicine. Polyclinic Therapy. Surgical Diseases. Obstetrics and Gynecology.
Credit value	3 credits
Academic hours	80 academic hours, of which: 60 class hours
Forms of midterm attestation	Test Examination