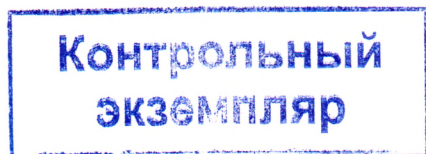


MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS
Educational Institution
«BELARUSIAN STATE MEDICAL UNIVERSITY»



APPROVED
by Rector of the Educational
Institution «Belarusian State
Medical University»
S.P. Rubnikovich
01.12.2025
Reg. # UD-0911-03-33/2528/edu.

DENTAL PUBLIC HEALTH
Curriculum of the educational institution
in the academic discipline for the specialty
1-79 01 07 «Dentistry»

Curriculum is based on the educational program «Dental Public Health», approved 01.12.2025, registration # УД-0911-03-33/2526/уч.; on the educational plan in the specialty 1-79 01 01 «Dentistry», approved 16.04.2025, registration # 7-07-0911-03/2526/mf.

COMPILERS:

I.N.Moroz, Head of Public Health and Health Care Department of the Educational Institution «Belarusian State Medical University», D.Sc., Professor;

S.V.Vlasava, Associate Professor of Public Health and Health Care Department of the Educational Institution «Belarusian State Medical University», Ph.D., Associate Professor

RECOMMENDED FOR APPROVAL:

by the Department of Public Health and Health Care of the Educational Institution «Belarusian State Medical University»
(protocol # 3 of 10.10.2025);

by the Scientific and Methodological Council of the Educational Institution «Belarusian State Medical University»
(protocol # 3 of 19.11.2025)

EXPLANATORY NOTE

«Dental Public Health» – the academic discipline of the module «Public Health and Health Care», which contains systematized scientific knowledge about the patterns of public dental health of the population and the factors its defining, the theoretical foundations and organizational principles of providing dental care to patients.

The aim of the academic discipline «Dental Public Health» is the formation of specialized competence for solving problems of professional activity aimed at ensuring the well-being of the population through medical prevention of oral diseases, reducing the prevalence of diseases, improving the quality of life, integrating dental medical care into the general Health care System.

The objectives of the academic discipline «Dental Public Health» are to form students' scientific knowledge about the environmental factors' patterns influencing dental health, to teach them how to define the population's needs for dental care, and provide them with the skills and abilities necessary for:

- analysis of prevalence of dental diseases among the population;
- assessment of the population's needs for dental care;
- organization of dental care for the population;
- evaluation of the effectiveness of medical prevention programs;
- management decisions aimed at increasing the availability and quality of dental care, improving the performance of health care organizations.

Relations to other educational disciplines

The study of the academic discipline «Public Dental Health» is based on the knowledge, skills and abilities acquired during the of the following educational disciplines: «Public Health and Health Care», «Biomedical Ethics».

Studying the educational discipline «Dental Public Health» should ensure the formation of students' specialized competencies: apply methods of epidemiological examination of the population, caries prognosis, develop programs of communal prevention of dental diseases for various age groups; evaluate the quality of dental care at the individual and communal level using national and international criteria.

As a result of studying the academic discipline «Dental Public Health» the student should

know:

- legal grounds for the activities of health care organizations providing dental care to the population;

- dental public health indicators, characteristics, and factors determining them in the Republic of Belarus;

- basic principles, forms, methods, and means of hygiene education and upbringing of the population;

- tasks, structural features, and performance indicators of health care organizations providing dental care to the population;

- main types and purpose of information technology in health care management;
- methods of marketing medical services, characteristics of supply and demand making;

- principles and methods of planning in health care;

quality management system for dental care;
 methods of performance evaluation in health care;

be able to:

calculate and evaluate dental public health indicators;
 assess the impact of risk factors on the dental health of the population;
 fill out basic accounting forms for medical documentation of health care organizations;
 calculate key indicators for analyzing the activities of health care organizations providing dental care to the population;
 analyze the performance indicators of a health care organization to support management decisions to improve dental care to the population;
 plan the activities of health care organizations providing dental care to the population;
 apply evaluation criteria for managing the quality of dental care;
 apply marketing technologies to manage and promote medical services in dentistry;
 calculate the medical, social, and economic efficiency of providing dental care (including programs and methods of medical prevention, diagnosis, treatment, medical rehabilitation, and prosthetics);

master:

the main methods for studying dental public health;
 methods for evaluating the performance of health care organizations, departments, and personnel providing dental care to the public.

Total number of hours for the study of the discipline is 90 academic hours, of which 45 classroom hours and 45 hours of student independent work. Classroom hours according to the types of studies: lectures – 3 hours, practical classes – 42 hours.

Intermediate assessment is carried out according to the syllabus of the specialty in the form of a credit (10 semester).

Form of higher education – full-time.

ALLOCATION OF ACADEMIC TIME ACCORDING TO SEMESTERS OF STUDY

Code, name of specialty	Semester	Total number of academic hours	Number of academic hours				Out-of-class self-studies	Form of intermediate assessment
			Number of classroom hours	including				
				lectures		practicals		
				class lectures	SSIW			
1-79 01 07 «Dentistry»	10	90	45	3	—	42	45	Credit

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical
1. Dental public health as an academic discipline and its practical application. Key methods for studying dental public health	-	6
2. Legal regulation in the field of dental health protection of the population in the Republic of Belarus	1,5	-
3. Management of dental care to the population in the Republic of Belarus	1,5	-
4. Organization of dental care for the population in the Republic of Belarus. Medical prevention of dental diseases	-	6
5. Organization of the work of the dental clinic. Content of the work of a dentist	-	6
6. Planning the activities of a dental clinic in the Republic of Belarus	-	6
7. Financing the activities of dental clinics in the Republic of Belarus	-	6
8. Marketing of dental services. Information technology, practical application in the organization of dental care to the population in the Republic of Belarus	-	6
9. Evaluating the performance of dental care provision to the population. Quality management of dental care provision to the population in the Republic of Belarus	-	6
Total hours	3	42

CONTENT OF EDUCATIONAL MATERIAL

1. Dental public health as an academic discipline and its practical application. Key methods for studying dental public health

Dental Public Health as an academic discipline on the patterns of dental public health of the population and the factors that determine it, the theoretical foundations and organizational principles of providing dental care to the population.

Purpose, objectives, place of the academic discipline «Dental Public Health» among medical and social sciences, object and subject of study. Field of application in dental practice.

Basic methods of studying dental public health, allowing to assess the quality of dental care at individual and communal level using national and international criteria.

Dental health of the population as a criterion of public health of the population, activity of dentists (doctors-dentists) necessary for planning needs, assessment of quality and effectiveness of dental care.

Dental Public Health indicators. Medical demographic and socio-economic factors affecting the dental health of the population. Quality of life related to dental health: definition, methodology, tools for study.

Comparative characteristics of methods for studying the dental health of the population. Dental health indicators (DMFS (Decayed, Missing, and Filled Surfaces) / dmfs; Hygiene Indices (OHI-S, Green-Vermillion, etc.).

Medical and social problem of prevalence of dental diseases in the population.

Study of dental morbidity of the population according to medical examinations data: types of preventive medical examinations (preliminary, periodic, targeted), the order of carrying out, accounting documents, algorithms for calculating indicators.

Study of dental morbidity of the population according to the data of population application for medical help: method of study, accounting and reporting documents, algorithms for calculating indicators, current levels and structure of indicators, directions of medical prevention.

Study of dental morbidity of the population according to the reasons of death: accounting documents, algorithms for calculating indicators, level.

2. Legal regulation in the field of dental health protection of the population in the Republic of Belarus

Guarantees of constitutional rights of citizens of the Republic of Belarus in the field of public health protection. The idea of a welfare state and its implementation in the legislation and policy of the Republic of Belarus. The concept of National Security of the Republic of Belarus: national interests, threats, areas of neutralization, and the system of ensuring national security.

The program for the socio-economic development of the Republic of Belarus for 2026-2030: the goal, objectives, priority areas of the country's socio-economic development, key measures for their implementation, expected results and target indicators for the development of industries, economic sectors and regions.

Powers of the President of the Republic of Belarus in the field of health care. Regulatory legal acts of the President of the Republic of Belarus:

Directive #1 «On Measures for Strengthening Public Safety and Discipline»;

Directive #3 «On the Priorities of Strengthening the Economic Security of the State»;

Decree #3 «On Additional Measures to Combat Corruption».

The main directions of Parliament's activities in the field of Public Health Protection. The main areas of parliamentary activity in the field of public health protection.

Priority directions for the development of the Union State in the field of Health care:

Decree «On the main directions for implementing the provisions of the Treaty on the Establishment of the Union State for 2024-2026».

Principles of State policy in the field of dental health protection. Regulatory legal acts governing the provision of dental care to the population.

Rights and responsibilities of patients. Rights and responsibilities of health care professionals.

3. Management of dental care to the population in the Republic of Belarus

Levels and bodies of state administration of dental care to the population.

The Ministry of Health of the Republic of Belarus as a national government body, its structure, and objectives. Chief freelance specialists of the Ministry of Health of the Republic of Belarus: appointment procedure, rights, duties, and responsibilities. Chief freelance dentist of the Republic of Belarus: appointment procedure, rights, duties, and responsibilities.

Powers of the main health departments of regional executive committees, the Health Committee of the Minsk City Executive Committee, and local Councils of Deputies in the field of dental health protection of the population.

Organizational structure of dental care management for the population.

4. Organization of dental care for the population in the Republic of Belarus. Medical prevention of dental diseases

Basic principles of dental care organization in the Republic of Belarus. Accessibility of dental care, classification. Types, forms, and conditions of dental care provision to the population. List of health care organizations providing dental care to the population. Key indicators of resource provision for dental care to the population. List of positions of medical workers in the dental field.

Procedure for providing routine and emergency dental care to the population.

Specific aspects of providing dental care to rural residents: principles, technological levels, resource indicators, and areas for improvement.

Provision of dental care to the population on a free and paid basis by state and non-state health care organizations.

Medical prevention of dental diseases, as a set of medical services aimed at maintaining and strengthening the patient's health, formation a healthy lifestyle, reducing the likelihood of the occurrence and spread of diseases and pathological conditions, their early detection, establishing the causes and conditions of their occurrence and development, as well as preventing the adverse impact of environmental factors on human health.

Legal regulation of issues of medical prevention of dental diseases.

The concept «5P» in medicine as a health care paradigm based on five principles: predictive, preventive, personalization, participatory, precision methods aimed at

identifying risks, early medical prevention of diseases and the development of individual strategies for treatment and health maintenance.

Key factors determining the dental health of the population. Dental disease prevention programs (structure, rationale, approval process, implementation monitoring, performance evaluation).

Formation of dental health of the population (hygiene education and upbringing of the population, the work of the doctor-dentist on the formation of a healthy lifestyle among the population).

5. Organization of the work of the dental clinic. Content of the work of a dentist

Provision of dental care to the population in an outpatient setting. List of outpatient health care organizations specializing in dentistry. Staffing standards for medical and other dental workers.

Dental clinic, tasks. Management of the activities of the dental clinic: scientific organization of work, characteristics of the main methods of management of the organization, styles of management.

Organizational structure of a dental clinic, functions of departments. Organization of patient reception. Accounting and reporting documentation of a dental clinic. Analysis of the activities of a dental clinic: staffing characteristics (staffing coefficient, coefficient of part-time work of doctors and nurses), indicators of the workload of specialists, preventive work with patients. Medical information systems (MIS) in the work of a dental clinic: centralized information system (CIS), automated information system (AIS) «Dentistry», automated workstation (AWS) «Dentistry».

Continuity in the work of a dental clinic with other health care organizations.

The role of a dental clinic in organizing preventive medical care and promoting a healthy lifestyle.

The organization and content of the work of a dentist (dental therapist, dental surgeon, dental orthopedist, dental orthodontics): tasks, functions, performance standards, accounting and reporting medical documents, performance indicators.

Dental patient screening: definition, principles, objectives, stages, screening groups, accounting and reporting medical documents. Indicators for assessing the scope, quality, and effectiveness of screening.

Organizing temporary disability assessments for dental patients: procedures, preparation of documents certifying temporary disability.

Ethical and deontological aspects in the activities of a dentist.

6. Planning the activities of a dental clinic in the Republic of Belarus

Planning dental care in outpatient and inpatient settings. Planning methods. Health care norms and standards. The system of state social standards for Public Health services in the Republic of Belarus: list, content, and levels.

Plan: definition, types of plans (by time, territorial, sectoral, and functional purpose), and characteristics.

Dental clinic activity planning: definition, principles, objectives, and methods. Annual dental clinic work plan: preparation procedure and deadlines, approval, sections, planned indicators, and implementation monitoring.

7. Financing the activities of dental clinics in the Republic of Belarus

Health care financing: definitions. Sources of health care financing. The health care budget and its components. Health care expenditure planning. Loans. Loan administrators and their rights.

Financial plan for a dental clinic (cost estimate): preparation procedure, main items. Current expenses: wages of workers and employees, payroll expenses, procurement of supplies and consumables. Subsidies and current transfers. Capital expenditures: capital investments in fixed assets, major repairs. Off-budget sources of financing for a dental clinic, formation and expenditure procedures. Fixed assets of a dental clinic.

8. Marketing of dental services. Information technology, practical application in the organization of dental care to the population in the Republic of Belarus

Marketing: concept, types, and purpose.

Marketing of dental services. Specifics of the dental services market. Supply and Demand making. The role of the public and private health care sectors in meeting demand for dental services.

Pricing system in dentistry. Cost of dental services: concept, components, calculation order.

Advertising of dental goods and services: legal and ethical aspects.

The Health care information and analytical system of the Republic of Belarus: purpose and conditions of use. Key principles of building an electronic health care system in the Republic of Belarus.

Information technologies in dentistry: characteristics, advantages, scope of application, and ethical and deontological aspects of use.

9. Evaluating the performance of dental care provision to the population. Quality management of dental care provision to the population in the Republic of Belarus

Types of efficiency in dentistry (medical, social, economic): definitions, and indicators.

Methodology for assessing economic efficiency in dentistry (economic effect, economic damage, prevented economic damage, economic efficiency criteria).

Methodology for calculating economic effect. Analysis of obtained data, formulation of conclusions and recommendations.

Performance assessment methodology in dentistry:

medical and clinical indicators (reduction of morbidity and complications, dental preservation, improved hygiene);

social (quality of life, social activity, patient satisfaction);

economic (cost/benefit ratio).

Quality of dental care: definition and evaluation criteria.

Dental care quality management and its legal framework. The dental care quality management system in the Republic of Belarus. The functions and responsibilities of managers in assessing the quality of dental care provided to the population. Factors influencing the quality of dental care.

Quality management of dental care as a comprehensive system for assessing, monitoring and improving all aspects of dental services, including safety, clinical effectiveness, timeliness, cost-effectiveness and patient participation, based on standards, expertise, key performance indicators (DMFS), personnel qualifications and material and technical base, and aimed at minimizing complications of diseases and patient satisfaction.

Standardization: concept, objectives, and objects. Classification of standards and its types. Quality standards.

Licensing and accreditation of dental activities.

Types of assessments in Health care. Assessment of the quality of dental care. Organizing a system for monitoring and assessing the quality of dental care.

EDUCATIONAL DISCIPLINE «DENTAL PUBLIC HEALTH» CURRICULUM CHART

Section, topic #	Section (topic) name	Number of class hours		Literature	Practical skill	Forms of control	
		lectures	practical			of practical skills	of current / intermediate assessment
	Lectures	3	–				
1.	Legal regulation in the field of dental health protection of the population in the Republic of Belarus	1,5	–				
2.	Management of dental care to the population in the Republic of Belarus	1,5	–				
	Practical lessons	–	42				
3.	Dental public health as an academic discipline and its practical application. Key methods for studying dental public health	–	6	1-3	Analysis of dental morbidity indicators in the population	Solving situational tasks	Interview; electronic testing
4.	Organization of dental care for the population in the Republic of Belarus. Medical prevention of dental diseases	–	6	1-3	1. Analysis of dental morbidity indicators in the population. 2. Selection of methods and means of medical prevention (using the target audience as an example)	Solving situational tasks	Interview; electronic testing

5.	Organization of the work of the dental clinic. Content of the work of a dentist	–	6	1-3	Definition and evaluation of performance indicators of a dental clinic	Solving situational tasks *	Report on practical exercises
6.	Planning the activities of a dental clinic in the Republic of Belarus	–	6	1-3	Planning of indicators of resource provision for health care	Solving situational tasks *	Interview, electronic testing, report
7.	Financing the activities of dental clinics in the Republic of Belarus	–	6	1-3			Defense of the abstract (report), interview
8.	Marketing of dental services. Information technology, practical application in the organization of dental care to the population in the Republic of Belarus	–	6	1-3	Examination of legal and ethical aspects of dental products and services advertisement	Solving situational tasks	Essay (report) defense, interview, electronic testing*
9.	Evaluating the performance of dental care provision to the population. Quality management of dental care provision to the population in the Republic of Belarus	–	6	1-3	Calculation and evaluation of the medical effectiveness of new treatment methods	Solving situational tasks	Electronic testing*. Credit
Total hours		3	42				

*This is a mandatory form of current certification

INFORMATION AND INSTRUCTIONAL UNIT

LITERATURE

Basic:

1. Glushanko, V. S. Public health and health service : teaching aid / V. S. Glushanko, E. V. Mikhnevich, L. I. Orekhova. – Vitebsk : VSMU, 2020. – 188 p.

Additional:

2. Glushanko, V. S. Public health and health service: guide to practical skills : teaching aid / V. S. Glushanko, L. I. Orekhova, E. V. Mikhnevich. – Vitebsk : VSMU, 2020. – 130 p.

Electronic courseware for the educational discipline «Dental Public Health»:

3. <https://etest.bsmu.by/course/view.php?id=2184>.

METHODOLOGICAL RECOMMENDATIONS FOR THE ORGANIZATION AND PERFORMANCE OF STUDENT INDEPENDENT WORK IN THE ACADEMIC DISCIPLINE

The time allocated for independent work can be used by students for:

- preparing for lectures and practical lessons;
- prepare for a course test;
- preparing reports;
- studying the topics (issues) designed for independent work;
- make notes from course materials;
- compilation of a thematic selection of literature sources, Internet sources.

LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms of current certification are used to diagnose competencies:

- defense of the abstract (report);
- interview;
- report on practical exercises;
- electronic testing.

LIST OF AVAILABLE TEACHING METHODS

Linear (traditional) method;
 active (interactive) methods:
 Problem-Based Learning (PBL);
 Team-Based Learning (TBL);
 Research-Based Learning (RBL).

LIST OF PRACTICAL SKILLS

Name of the practical skill	Form of practical skills control
1. Analysis of dental morbidity indicators in the population	Solving situational tasks
2. Selection of methods and means of medical prevention (using the target audience as an	Solving situational tasks

Name of the practical skill	Form of practical skills control
example)	
3. Definition and evaluation of performance indicators of a dental clinic	Solving situational tasks
4. Planning of indicators of resource provision for health care	Solving situational tasks
5. Examination of legal and ethical aspects of dental products and services advertisement	Solving situational tasks
6. Calculation and evaluation of the medical effectiveness of new treatment methods	Solving situational tasks

**PROTOCOL OF THE CURRICULUM APPROVAL
BY OTHER DEPARTMENTS**

Title of the discipline requiring negotiation	Department name	Amendments to the curriculum in the academic discipline	Decision of the department, which designed the curriculum (date, protocol #)
1. Public Health and Health Care	Department of Public Health and Health care	Agreed. No offers	Protocol # 3 from 10.10.2025
2. Biomedical Ethics	Department of Public Health and Health care	Agreed. No offers	Protocol # 3 from 10.10.2025

COMPILERS:

Head of Public Health and Health Care
Department of the Educational Institution
«Belarusian State Medical University»,
D.Sc., Professor



I.N. Moroz

Associate Professor of Public Health and
Health Care Department of the Educational
Institution «Belarusian State Medical
University», Ph.D., Associate Professor



S.V. Vlasava

Curriculum content, composition and accompanying documents comply with
established requirements.

Head of the Office of Educational Activities
of the Educational Institution «Belarusian
State Medical University»

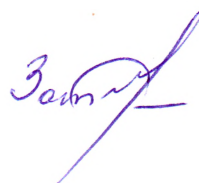
19.11. 2025



I.L. Kotovich

Methodologist of the Educational and
Methodological Department of the Office of
Educational Activities of the Educational
Institution «Belarusian State Medical
University»

19.11. 2025



S.V. Zaturanova