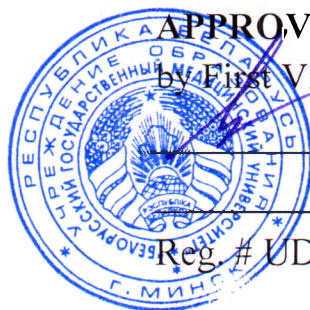


MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS
EDUCATIONAL INSTITUTION
BELARUSIAN STATE MEDICAL UNIVERSITY

Контрольный
экземпляр



APPROVED

by First Vice-Rector, Professor

I.N.Moroz

27.06.2023

Reg. # UD-07-18/2324/edu.

CONSERVATIVE DENTISTRY

**Curriculum of educational institution
in the educational discipline for the specialty:**

1-79 01 07 «Dentistry»

Curriculum is based on the educational program «Conservative Dentistry», approved 27.06.2023, registration L.07-18/2324/уч.; on the educational plan in the specialty 1-79 01 07 «Dentistry», approved 17.05.2023, registration # 7-07-0911-03/2324/mf.

COMPILERS:

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RECOMMENDED FOR APPROVAL:

by the Department of Conservative Dentistry of the educational institution «Belarusian State Medical University»
(protocol # 14 of 12.04.2023);

by the Scientific and Methodological Council of the educational institution «Belarusian State Medical University»
(protocol # 6 of 27.06.2023)

EXPLANATORY NOTE

«Conservative Dentistry» – the academic discipline of the module «Therapeutic dentistry», which contains systematized scientific knowledge about the etiology, pathogenesis of caries and non-cariogenic diseases of hard tissues of teeth, methods for their diagnosis, treatment and prevention.

The aim of the discipline «Conservative Dentistry» is the formation of universal and basic professional competencies for solving problems of professional activity, building a clinical diagnosis, providing medical care, organizing preventive measures.

The objectives of the discipline «Conservative Dentistry» are to form students' scientific knowledge about the etiology, pathogenesis, methods for diagnosing, treating and preventing caries and non-cariogenic diseases of hard tissues of teeth, the skills and abilities necessary for examining patients, interpreting the results of laboratory and instrumental research methods, making a diagnosis, and conducting restorative treatment; diagnosis of emergency conditions and the provision of comprehensive dental care, prevention and elimination of risk factors for dental diseases that lead to a violation of health, aesthetics, function of teeth and surrounding tissues.

The knowledge, skills, and abilities acquired during the study of the academic discipline «Conservative Dentistry» are necessary for successful mastering of the following academic disciplines or modules: «Endodontic», «Pediatric Dentistry».

Studying the educational discipline «Conservative Dentistry» should ensure the formation of students' specialized competencies:

SC. Conduct examination, apply diagnostic methods, differential diagnostics, formulate a clinical diagnosis, apply modern technologies for the treatment and prevention of caries and its complications (pulpitis, periodontitis), other diseases of the hard tissues of the teeth, the oral mucosa in adults; define a comprehensive plan of dental treatment.

As a result of studying the discipline «Conservative Dentistry» the student should

know:

international terminology and classification of caries and non-cariogenic diseases of hard dental tissues;

regulatory legal acts necessary for the activities of a dentist-therapist;

etiology and pathogenesis of dental caries and diseases of hard dental tissues of non-cariogenic origin;

methods of clinical examination of patients with pathology of hard dental tissues;

methods for diagnosing caries and diseases of hard dental tissues;

principles of differential diagnosis and treatment of dental caries and diseases of hard dental tissues of non-cariogenic origin;

dental instruments used in the restoration of hard dental tissues;

clinical protocols for the diagnosis and treatment of oral diseases;

indications and contraindications for the use of medicines and filling materials;

methods for evaluating the effectiveness of therapeutic and preventive measures;

medical documentation of the dental office, department, clinic;

modern directions of scientific research in the field of dentistry in the Republic of Belarus and abroad;

be able to:

create mutual understanding with the patient, observing medical ethical principles in communication and actions;

assess the general condition of the patient before and during treatment and diagnostic measures;

conduct a clinical examination of the patient;

draw up a plan for the examination and treatment of a patient with caries and non-carious lesions of hard dental tissues;

use additional research methods to clarify the diagnosis;

interpret the results of additional examination methods;

timely establish the need for additional examination of the patient, consultation of a specialist doctor;

plan and implement effective primary, secondary and tertiary prevention of diseases of hard dental tissues;

draw up medical documentation;

master:

a method of prevention and elimination of conditions that lead to a violation of health, aesthetics, function of teeth and tissues surrounding the tooth;

methods of examination of patients, diagnosis and differential diagnosis of diseases of the oral cavity;

methods of restorative treatment;

diagnostic skills and medical care in emergency conditions in dentistry.

Total number of hours for the study of the discipline is 312 academic hours. Classroom hours according to the types of studies: lectures - 24 hours, practical classes - 167 hours, student independent work (self-study) - 121 hours.

Intermediate assessment is carried out according to the syllabus of the specialty in the form of examination (6 semester) and a credit (8 semester).

Form of higher education – full-time.

**ALLOCATION OF ACADEMIC TIME
ACCORDING TO SEMESTERS OF STUDY**

Code, name of the specialty	semester	Number of academic hours					Form of intermediate assessment
		total	in-class	including		out-of-class self-studies	
				lectures	practical classes		
1-79 01 07 «Dentistry»	5	88	62	8	54	26	
	6	88	59	8	51	29	exam
	7	56	38	8	30	18	
	8	80	32	-	32	48	credit

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical
1. Introduction to the specialty	-	6
1.1. Deontology in therapeutic dentistry. Dental office. Asepsis and antisepsis in the dental office. Basic rules of ergonomics in the work of a dentist	-	3
1.2. Dental outpatient card. Rules for filling out accounting and reporting dental documentation	-	3
2. Diagnosis and treatment planning in therapeutic dentistry	2	9
3. Prevention of dental diseases	2	15
3.1. Working field isolation methods	-	3
3.2. Dental deposits. Individual and professional oral hygiene	-	6
3.3. Prevention of dental caries in adults. Methods for predicting dental caries	2	6
4. Cariesology	18	125
4.1. Mechanism of development, epidemiology, classification of dental caries	1	3
4.2. Enamel caries	2	9

Section (topic) name	Number of class hours	
	lectures	practical
4.3. Dentin caries	2	9
4.4. Caries of the occlusal surfaces of the posterior teeth	1	6
4.5. Caries of the approximal surfaces of the posterior teeth	1	9
4.6. Root caries. Clinical picture, diagnosis, treatment methods	-	3
4.7. Caries in the cervical part of the teeth	-	6
4.8. Caries of the approximal surfaces of incisors and canines without violation the integrity of the angle and the cutting edge of the crown	-	6
4.9. Caries of approximal surfaces of incisors and canines with violation of the integrity of the cutting edge of the crown	1	6
4.10. Minimally invasive methods of treatment of dental caries	1	3
4.11. Possible errors and complications in the diagnosis and treatment of dental caries	-	3
4.12. Tooth trauma	-	3
4.13. Clinical picture, diagnosis, methods of treatment of dentin hypersensitivity	-	3
4.14. Causes and methods of elimination of postoperative tooth sensitivity	-	3
4.15. Methods of adhesive preparation teeth for restoration	1	3
4.16. Change in tooth color. Discoloration. Reasons for the development of discoloration of teeth, methods of elimination	1	3
4.17. Tooth color correction methods	1	9
4.18. Possibilities of using modern restorative materials in various clinical situations	-	3
4.19. Aesthetics of a smile. Criteria for evaluation	-	3
4.20. Optical effects in aesthetic restoration of teeth	-	4
4.21. Techniques for the restoration of anterior teeth. Veneers	2	8
4.22. Posterior tooth restoration techniques	1	4
4.23. One-session replacement of dentition defects	-	4
4.24. Criteria for evaluating the effectiveness of caries treatment	-	4
4.25. Mistakes and complications in restorative therapy	2	4
4.26. Prevention of complications in outpatient dental care	-	4

Section (topic) name	Number of class hours	
	lectures	practical
5. Disorders of tooth development and other diseases of hard tissues of teeth	2	12
5.1. Diseases of hard tissues arising before the eruption	1	6
5.2. Diseases of hard tissues arising after the eruption	1	6
Total hours	24	167

CONTENT OF THE EDUCATIONAL MATERIAL

1. Introduction to the specialty

1.1. Deontology in therapeutic dentistry. Dental office. Asepsis and antisepsis in the dental office. Basic rules of ergonomics in the work of a dentist

Deontological aspects of the work of a dentist. Organization of doctor's relationship with patients, with medical personnel. Organizational structure of the dental clinic and dental therapeutic department. Sterilization of dental instruments. Basic provisions and requirements in the organization of the workplace of a dentist. Optimization of the working position of the doctor and his assistants during medical procedures

1.2. Dental outpatient card. Rules for filling out accounting and reporting dental documentation

Outpatient card as a medical and legal document. Dental documentation: a register of the work of a dentist, a diary of treatment and preventive work, prescription forms, referrals. Rules for filling them out. Development of practical skills in the preparation of medical documentation.

2. Diagnosis and treatment planning in therapeutic dentistry

Purpose and tasks of diagnostics in therapeutic dentistry. Initial examination of a dental patient. Detailed examination. Methods and stages of diagnosis. World Health Organization (WHO) guidelines for diagnosing dental diseases. Laboratory research methods.

Stages of treatment planning. Emergency medical care in dentistry, appointments. Planned specialized dental care: therapeutic, surgical, orthopedic, prevention of dental diseases.

The main causes and methods of treatment in dentistry. Types and characteristics of modern applications of means unexpectedly (mouth dilators, mirrors, intraoral cameras, binoculars, microscopes), their features.

Basic and additional methods for diagnosing of dental caries. Modern diagnostic systems (OLF method, DIAGNODENT device, FOTI, ECM method, Nyvad, ICDAS systems). Comparative analysis of the diagnosis of early caries. Scheme of indicative actions (sequence of sequential actions) in the diagnosis of various stages of dental caries in adults. The sequence of measures for the choice of treatment and prevention.

Examination of patients with oral diseases: collection of complaints and anamnesis of diseases; clinical examination; drawing up a plan of additional

activities; interpretation of the results of studies of laboratory and instrumental methods, determination of treatment tactics. Filling out medical records.

3. Prevention of dental diseases

3.1. Working field isolation methods

Methods of isolation of the working field in restorative therapy. Cofferdam system: indications and contraindications for use.

Components and accessories of the cofferdam system. quickdam, minidam, optidam, opradam, optragate. The sequence of manipulations when installing the cofferdam system. Basic and additional elements of the cofferdam system. Methods for installing a rubber dam system. The choice of installation method depending on the clinical situation.

Practicing the practical skills of imposing cofferdam system.

3.2. Dental deposits. Individual and professional oral hygiene

Theories of plaque formation. The role of dental deposits in the pathology of oral tissues. Methods of indication of dental deposits. Hygiene indices (Simplified Oral Hygiene Index (Green-Vermillion), Index for Evaluation Oral Hygiene Performance (Podlshadley, Haley)).

Oral hygiene products: basic, additional. Teeth brushing methods. Oral hygiene instruction. Definition and protocol for professional oral hygiene. Manual and electric methods of removing dental deposits. The choice of prophylactic agents for the treatment of hard tissues of the teeth after the removal of dental deposits (fluoride preparations, desensitizers). Classification of instruments for the removal of dental plaque. Indications and contraindications for the use of electric scalers. The method of removing dental deposits manually.

Examination of patients with dental deposits: collection of complaints and anamnesis of the disease; clinical examination; determination of treatment tactics. Preparation of medical documentation.

3.3. Prevention of dental caries in adults. Methods for predicting dental caries

Tasks and methods for preventing dental caries in adults: oral hygiene, rational nutrition, the use of fluorides. Methods for predicting dental caries: clinical, laboratory, instrumental, computer. The value and role of predicting dental caries in patient motivation. Planning for individual prevention of dental caries in adults. Evaluation of the effectiveness of preventive measures.

Examination of dental patients: collection of complaints and anamnesis of the disease; clinical examination; planning individual prevention of dental caries in adults, determination of treatment tactics. Registration of medical documentation.

4. Cariesology

4.1. Mechanism of development, epidemiology, classification of dental caries

Dental caries: definition, theories of caries development, etiology, pathogenesis, epidemiology. Pathological anatomical changes in the tissues of the tooth in caries. Classification of dental caries (according to Black, anatomical and topographic, ICD).

Examination of patients with dental caries: collection of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; determination of treatment tactics. Registration of medical documentation.

Practicing manual skills of preparing teeth with defects of class I-V according to Black for restoration.

4.2. Enamel caries

Clinical manifestations of initial and superficial enamel caries. Differential diagnosis of enamel caries. Determination of a group of diseases that have same features with enamel caries. Basic and additional methods for diagnosing various stages of enamel caries. Scheme of indicative actions (sequence of stages) in the diagnosis of various stages of enamel caries. Appointment of additional tests to confirmation the diagnosis.

The main stages of the treatment of enamel caries. Sequence of selection of appropriate therapeutic and preventive measures. Methods of remineralizing therapy. Method of deep fluorination. Ozone therapy, air-abrasive method, laser treatment. Methodology for working with ICON material. Algorithms for filling superficial caries.

Examination of patients with enamel caries: collection of complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.3. Dental caries

Clinical manifestations of dentin caries (medium and deep). Differential diagnosis of dentine caries. Basic and additional diagnostic methods. Determination of a group of diseases that have common features with dentin caries. Treatment of dentin caries depending on the depth of the pathological process. Classification of capping treatment. Indications for use. Methods of work.

Examination of patients with dentin caries: collection of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; determination of treatment tactics. Registration of medical documentation.

4.4. Caries of the occlusal surfaces of the posterior teeth

Clinical manifestations of caries of the occlusal surfaces of the posterior teeth. Differential diagnosis of caries of occlusal surfaces of the posterior teeth. Basic and additional diagnostic methods. Rules for the preparation and formation of carious cavities on the occlusal surfaces of the posterior teeth.

Properties and clinical features of filling materials using for the restoration of caries of the occlusal surfaces of the posterior teeth. Main indications and contraindications. Features of the preparation of carious cavities of occlusal surfaces posterior teeth, depending on the choice of restoration technique. Algorithms for filling caries of occlusal surfaces of the posterior teeth.

Examination of patients with caries occlusal surfaces of posterior teeth: collection of complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.5. Caries of the approximal surfaces of the posterior teeth

Clinical manifestations of caries proximal surfaces of posterior teeth. Differential diagnosis of caries approximal surfaces of the posterior teeth. Basic and additional diagnostic methods. Rules for the preparation and formation of carious cavities on the proximal surfaces of the posterior teeth, secondary mechanical retention. Indications for the choice of filling materials.

Clinical stages of restoration of the contact point of the teeth. Materials and accessories. Types of matrix systems by composition and purpose. Methods of working with different types of matrix systems. Additional accessories for working with matrix systems. Types of wedges.

Examination of patients with caries on approximal surfaces of the posterior teeth: collection of complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.6. Root caries. Clinical picture, diagnosis, treatment methods

Clinical manifestations of root caries. Differential diagnosis, epidemiology of root caries, predisposing factors, classification, features of clinical manifestations. The choice of treatment tactics, methods of local treatment of carious lesions of the root. Features of the preparation of carious cavities in root caries, the choice of filling materials.

Examination of patients with root caries: collection of complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.7. Caries in the cervical part of the teeth

Clinical manifestations of caries in the cervical part of the teeth. Differential diagnosis, basic and additional diagnostic methods. Rules for the preparation and formation of carious cavities in the cervical part of the teeth.

Properties and clinical features of using filling materials for restoration in the cervical part of the teeth. Main indications and contraindications. Algorithms of filling caries cavities in the cervical part of the teeth.

Examination of patients with caries in the cervical part of the teeth: collection of complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.8. Caries of the approximal surfaces of incisors and canines without violation the integrity of the angle and the cutting edge of the crown

Clinical manifestations caries of the proximal surfaces of incisors and canines without violating the integrity of the cutting edge. Modern methods for diagnosing hidden carious cavities of the anterior teeth. Features of the treatment of carious cavities III-IV class, depending on the location and depth of the lesion. Classification of modern filling materials for aesthetic restorations.

Examination of patients with caries of the proximal surfaces of incisors and canines without violating the integrity of the cutting edge: collecting complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.9. Caries of the approximal surfaces of incisors and canines with violation of the integrity of the cutting edge of the crown

Clinical manifestations caries of approximal surfaces of incisors and canines with violation of the integrity of the cutting edge. The sequence of actions in the diagnosis of caries of the proximal surfaces of incisors and canines with a violation of the integrity of the cutting edge. Features of the preparation of carious cavities approximal surfaces of incisors and canines with violation of the integrity of the cutting edge.

Properties and clinical features of use filling materials for the restoration of caries of the proximal surfaces of incisors and canines with a violation of the integrity of the cutting edge. Algorithms for filling caries of the proximal surfaces of incisors and canines with a violation of the integrity of the cutting edge.

Examination of patients with caries of the approximal surfaces of incisors and canines with a violation of the integrity of the cutting edge: collection of complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.10. Minimally invasive methods of treatment of dental caries

Minimally invasive interventions are a priority in modern medicine. Indications and contraindications for the use of minimally invasive methods of treatment of dental caries. Stages and technique. Advantages and disadvantages of minimally invasive dental caries treatment.

4.11. Possible errors and complications in the diagnosis and treatment of dental caries

Possible errors at the stage of diagnosis and differential diagnosis of dental caries. Errors in restorative therapy at the stages: formation of a carious cavity, choice of filling material, application of an adhesive system, modeling, final processing of the restoration. Complications, methods of their elimination.

Practicing manual skills of adhesive systems using in different classes for restoration.

4.12. Tooth trauma

Classification of traumatic injuries of the teeth of the ICD. Causes of dental trauma. Clinical picture, diagnosis, methods of treatment of acute and chronic injuries. Enamel crack, enamel spall, tooth crown fracture.

Examination of patients with a tooth injury: collection of complaints and anamnesis of the disease; clinical examination; drawing up a plan for an additional examination; determination of treatment tactics. Registration of medical documentation.

4.13. Clinical picture, diagnosis, methods of treatment of dentin hypersensitivity

Definition, classification, prevalence of dentin sensitivity. Mechanisms of development, methods for diagnosis of dentin sensitivity. Treatment and prevention of dentin hypersensitivity.

Examination of patients with dentin hypersensitivity: collection of complaints and anamnesis of the disease; clinical examination; planning an additional

examination; determination of treatment tactics. Registration of medical documentation

4.14. Causes and methods of elimination of postoperative tooth sensitivity

Causes of postoperative tooth sensitivity. Prevention of possible errors and complications at the stages of treatment of uncomplicated caries. Methods for eliminating postoperative sensitivity.

Examination of patients with postoperative tooth sensitivity: collection of complaints and anamnesis of the disease; clinical examination; determination of treatment tactics. Registration of medical documentation.

4.15. Methods of adhesive preparation teeth for restoration

The history of the development of adhesive technique in the restoration therapy of teeth. Adhesive systems generations. Features of the adhesive systems using in different generations in the work of a dentist. Comparative analysis and effectiveness of the adhesive preparation methods using. Features of application, technical characteristics, selection criteria. Prevention of possible errors and complications.

Practicing manual skills of adhesive systems using in different classes in restorative therapy of carious cavities.

4.16. Change in tooth color. Discoloration. Reasons for the development of discoloration of teeth, methods of elimination

Classification of tooth discoloration. Discolorations: definition, causes of occurrence. Parameters for changing the color of the tooth (hue, brightness, saturation, translucency). Methods for determining the color of the tooth (VITA Easy Shade, Shade Scan System). Influence of external factors on light perception when measuring tooth color. Indications and contraindications for teeth whitening.

Practicing manual skills of tooth color determination systems VITA Easy Shade, Shade Scan System.

4.17. Tooth color correction methods

Indications and contraindications for teeth whitening. Classification of bleaching methods. Systems used for teeth whitening in a dental office. Composition of teeth whitening systems.

Home whitening: technique, advantages and disadvantages.

Professional whitening: technique, advantages and disadvantages.

Examination of patients with discoloration of the tooth: collection of complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.18. Possibilities of using modern restorative materials in various clinical situations

Properties and indications for the use of various filling materials. Composite materials: classification, indications and contraindications for use. Criteria for choosing a composite material depending on the clinical situation, features of the restoration technique.

Practicing manual skills of choosing a restoration method and using restoration material.

4.19. Aesthetics of a smile. Criteria for evaluation

Aesthetic proportions of a smile. The principle of the «golden proportion». The ratio of the width of the teeth. Calculation of the frontal sextants. Closure of diastema. Closing trema. Possible mistakes in the smile design process restoration.

Examination of patients with discolorations: collection of complaints and anamnesis of the disease; clinical examination; planning an additional examination; determination of treatment tactics. Registration of medical documentation.

4.20. Optical effects in aesthetic restoration of teeth

Systems for planning and visualizing the results of aesthetic rehabilitation. Digital Smile Design technology and its analogues. Optical effects used in restoration: shaping, contouring, staining.

Practicing a practical skill of optical effects using in teeth restoration.

4.21. Techniques for the restoration of anterior teeth. Veneers

Concepts for the restoration of anterior teeth. Mathematical calculation of the shape of the incisors. The concept of layer-by-layer restoration of color and optical properties of the tooth (D. Dietschi), stratification. Double-mold technique. Stages of tooth restoration using a double-mold technique. Indications for the production of adhesive restorations by the direct method, advantages and disadvantages.

Classification of microprostheses of the anterior teeth. The use of finished composite veneers (componeers). Indications and contraindications for the use of componeers. Stages of restoration.

Practicing a practical skill anterior teeth restorations.

4.22. Posterior tooth restoration techniques

Methods for restorations of posterior teeth. Methodology L.M. Lomiashvili. Strategies for the restoration of S. Radlinsky. Biomimetics in dental restoration.

Practicing a practical skill of posterior teeth restoration.

4.23. One-session replacement of dentition defects

Indications, methods, choice of materials and instruments for one-session replacement of a dentition defect, prognosis.

Practicing a practical skill of one-session replacement of dentition defects.

4.24. Criteria for evaluating the effectiveness of caries treatment

Modern criteria for evaluating the quality of aesthetic restorations (international Rygge criteria 1988, VL Leonova criteria 2000, USPHS FDI criteria 2007, aesthetic quality index 2007). Indicators of evaluation of the studied criteria. Calculation of aesthetic indicators.

Examination of patients with restorations from various filling materials: collection of complaints and anamnesis of the disease; clinical examination; assessment of the quality of aesthetic restorations according to international criteria. Determination of treatment tactics. Registration of medical documentation.

4.25. Mistakes and complications in restorative therapy

Prevention of possible errors and complications in the treatment of lesions of hard tissues of the tooth using composite materials. Elimination of possible errors and complications at the stages of restorative treatment. Evaluation of immediate and long-term results of treatment (clinical and radiological criteria).

Examination of patients with restorations from various filling materials: collection of complaints and anamnesis of the disease; clinical examination; assessment of immediate and long-term results of treatment (clinical and radiological criteria). Registration of medical documentation.

4.26. Prevention of complications in outpatient dental care

Features of the provision of medical dental care in an outpatient setting. Prevention of complications in persons with somatic disorder and the elderly population during dental treatment.

Practicing of methods for providing emergency medical care in the practice of a dentist.

5. Disorders of tooth development and other diseases of hard tissues of teeth

5.1. Diseases of hard tissues arising before the eruption

Classification of tooth lesions that occur before eruption the teeth: hypoplasia, hyperplasia, anomalies in the size and shape of teeth, endemic mottling of teeth (fluorosis), non-endemic mottling of teeth, discoloration in the process of tooth formation. Etiology, pathogenesis, clinical picture of dental lesions that occur before eruption the teeth.

The prevalence of defects in the development of enamel in the Republic of Belarus and in the world. International terminology, DDI - index (FDI, 1982). Mechanism of development, clinical manifestations, methods of diagnosis and treatment of fluorosis, non-endemic mottling of teeth, hypoplasia. The basis of prevention of diseases of hard tissues of teeth that occur before eruption.

Examination of patients with defects in the development of enamel: collection of complaints and anamnesis of the disease; clinical examination; determination of treatment tactics. Registration of medical documentation.

5.2. Diseases of hard tissues arising after the eruption

Disorders to the teeth that occurs after eruption: pigmentation of the teeth and plaque, pathological attrition of hard tissues, wedge-shaped defect, erosion of the teeth. Etiology, mechanism of development, clinical manifestations of dental lesions that occur after eruption.

Basic and additional diagnostic methods, differential diagnostics, principles of treatment of pathological attrition and abrasion of teeth, erosion of hard dental tissues. Basis of prevention of diseases of hard tissues of teeth that occur after eruption.

Examination of patients with increased abrasion or abrasive wear of teeth: collection of complaints and anamnesis of the disease; clinical examination; determination of treatment tactics. Registration of medical documentation.

ACADEMIC DISCIPLINE CURRICULAR CHART

Section, topic #	Section (topic) name	number of hours		Self-studies	Form of control
		lectures	practical		
5 semester					
1.	Introduction to the specialty		6	2	
1.1.	Deontology in therapeutic dentistry. Dental office. Asepsis and antisepsis in the dental office. Basic rules of ergonomics in the work of a dentist	-	3	1	Discussion, tests, clinical tasks
1.2.	Dental outpatient card. Rules for filling out accounting and reporting dental documentation	-	3	1	Discussion, tests, clinical tasks
2.	Diagnosis and treatment planning in therapeutic dentistry	2	6	3	
2.1.	Diagnostics in therapeutic dentistry	1	-	1	Discussion
2.2.	Treatment planning in therapeutic dentistry	1	3	1	Discussion, tests, clinical tasks
2.3.	Diagnostic methods in therapeutic dentistry. Modern visualization tools for a comprehensive examination of the patient	-	3	1	Discussion, tests, clinical tasks
3.	Prevention of dental diseases	-	9	3	
3.1.	Working field isolation methods	-	3	1	Discussion, tests, clinical tasks
3.2.	Dental deposits. Calculus indication methods. Hygiene indices	-	3	1	Discussion, tests, clinical tasks
3.3.	Individual and professional oral hygiene	-	3	1	Discussion, abstracts from scientific journals

2.	Diagnosis and treatment planning in therapeutic dentistry	-	3	18	
4.	Cariesology	6	30		
4.1.	Mechanism of development, epidemiology, classification of dental caries	1	3	1	Discussion, computer tests, clinical tasks
4.2.	Enamel caries	2	-	1	Discussion, tests, clinical tasks
4.2.	Clinical manifestations, methods for diagnosing caries of enamel.	-	3	1	Discussion, tests, clinical tasks
4.2.	Differential diagnosis of enamel caries	-	3	1	Discussion, tests, clinical tasks
4.2.	Treatment methods for enamel caries	-	3	1	Discussion, tests, clinical tasks
4.3.	Dentin caries	2	-	1	Discussion
4.3.	Clinical manifestations, methods for diagnosing caries of dentin.	-	3	1	Discussion, tests, clinical tasks
4.3.	Differential diagnosis of dentine caries	-	3	1	Discussion, tests, clinical tasks
4.3.	Treatment methods for dentine caries	-	3	1	Discussion, tests, clinical tasks
4.4.	Caries of the occlusal surfaces of the posterior teeth	1	-	1	Discussion
4.4.	Diagnosis and treatment of caries of the occlusal surfaces of the posterior teeth	-	3	2	Discussion, tests, clinical tasks
4.4.	The choice of material and features of clinical application in the restoration of the occlusal surfaces of the posterior teeth	-	3	2	Discussion, tests, clinical tasks
4.5.	Diagnosis and treatment of caries of the approximal surfaces of the posterior teeth	-	3	4	Discussion, computer tests, clinical tasks

6 semester

4.	Cariesology	4	33	29	
3.	Prevention of dental diseases	2	6		
5.	Disorders of tooth development and other diseases of hard tissues of teeth	2	12		
4.5.	Caries of the approximal surfaces of the posterior teeth	1	-	1	Discussion
4.5.	Matrix systems	-	3	1	Discussion, tests, clinical tasks
4.5.	The choice of material and features of clinical application in the restoration of the approximal surfaces of the posterior teeth	-	3	1	Discussion, tests, clinical tasks
4.6.	Root caries. Clinical picture, diagnosis, treatment methods	-	3	1	Discussion, tests, clinical tasks

4.7.	Diagnosis and treatment of caries in the cervical part of the teeth	-	3	1	Discussion, tests, clinical tasks
4.7.	The choice of material and features of clinical application in the restoration of caries in the cervical part of the teeth	-	3	1	Discussion, tests, clinical tasks
4.8.	Diagnosis and treatment of caries of the approximal surfaces of incisors and canines without violation the integrity of the angle and the cutting edge of the crown	-	3	1	Discussion, tests, clinical tasks
4.8.	The choice of material and features of clinical application in the restoration of caries of the approximal surfaces of incisors and canines without violation the integrity of the angle and the cutting edge of the crown	-	3	1	Discussion, tests, clinical tasks
4.9.	Caries of approximal surfaces of incisors and canines with violation of the integrity of the cutting edge of the crown	1	-	1	Discussion
4.9.	Diagnosis and treatment of caries of approximal surfaces of incisors and canines with violation of the integrity of the cutting edge of the crown	-	3	1	Discussion, tests, clinical tasks
4.9.	The choice of material and features of clinical application in the restoration of caries of approximal surfaces of incisors and canines with violation of the integrity of the cutting edge of the crown	-	3	1	Discussion, tests, clinical tasks
4.10	Minimally invasive methods of treatment of dental caries	1	-	1	Discussion
4.11.	Possible errors and complications in the diagnosis and treatment of dental caries	1	-	1	Discussion
3.3.	Prevention of dental caries in adults. Methods for predicting dental caries	2	-	1	Discussion
5.1.	Disorders of tooth development and other diseases of hard tissues	2	-	1	Discussion
5.2.	of teeth				
5.1.	Diseases of hard tissues arising before the eruption (disorders of tooth development)	-	3	1	Discussion, tests, clinical tasks
5.1.	Diagnosis, differential diagnosis and treatment of endemic mottling of teeth (fluorosis) and non-endemic mottling of teeth, hypoplasia	-	3	1	Discussion, tests, clinical tasks

5.2.	Diseases of hard tissues arising after the eruption	-	3	2	Discussion, tests, clinical tasks
5.2.	Pathological attrition of hard tissues, abrasion, erosion of the teeth	-	3	2	Discussion, tests, clinical tasks
4.10	Minimally invasive methods of treatment of dental caries	-	3	2	Discussion, tests, clinical tasks
4.11.	Possible errors and complications in the diagnosis and treatment of dental caries	-	3	2	Discussion, tests, clinical tasks
3.3.	Prevention of dental caries in adults	-	3	2	Discussion, tests, clinical tasks
3.3.	Methods for predicting dental caries	-	3	2	Computer tests Exam, objective structured clinical examination (OSCE)

7 semester

		8	30	18	
4.	Cariology	8	30	18	
4.12.	Tooth trauma	-	3	1	Discussion, tests, clinical tasks
4.13.	Clinical picture, diagnosis, methods of treatment of dentin hypersensitivity	-	3	1	Discussion, tests, clinical tasks
4.14.	Causes and methods of elimination of postoperative tooth sensitivity	-	3	1	Discussion, tests, clinical tasks
4.15.	Methods of adhesive preparation of teeth for restoration	1	3	1	Discussion, tests, clinical tasks
4.16.	Change in tooth color. Discoloration. Reasons for the development of discoloration of teeth, methods of elimination	1	3	1	Discussion, tests, clinical tasks
4.17.	Tooth color correction methods. Methods of bleaching teeth	1	-	1	Discussion, tests, clinical tasks
4.17.	Tooth color correction methods	-	3	1	Discussion, tests, clinical tasks
4.17	Indications and contraindications for teeth whitening. Dental bleaching materials	-	3	2	Discussion, tests, clinical tasks
4.17	Home and office dental bleaching	-	3	2	Discussion, tests, clinical tasks
4.18.	Possibilities of using modern restorative materials in various clinical situations	-	3	2	Discussion, tests, clinical tasks
4.19.	Aesthetics of a smile. Criteria for evaluation	-	3	2	Discussion, tests, clinical tasks
4.21.	Anterior teeth restoration techniques	2	-	1	Discussion
4.22.	Posterior tooth restoration techniques	1	-	1	Discussion
4.25.	Mistakes and complications in restorative therapy	2	-	1	Discussion

8 semester

4	Cariesology	-	32	48	Discussion, tests, clinical tasks
4.20.	Optical effects in aesthetic restoration of teeth	-	4	6	Discussion, tests, clinical tasks
4.21	Anterior teeth restoration techniques	-	4	6	Discussion, tests, clinical tasks
4.21	Indications and contra indications for the use of veneers	-	4	6	Discussion, tests, clinical tasks
4.22	Posterior tooth restoration techniques	-	4	6	Discussion, tests, clinical tasks
4.23.	One-session replacement of dentition defects	-	4	6	Discussion, tests, clinical tasks
4.24.	Criteria for evaluating the effectiveness of caries treatment	-	4	6	Discussion, tests, clinical tasks
4.25.	Mistakes and complications in restorative therapy	-	4	6	Discussion, tests, clinical tasks
4.26.	Prevention of complications in outpatient dental care		4	6	Discussion, computer tests, control works
	Total hours	24	167	121	Credit

INFORMATION AND INSTRUCTIONAL UNIT

LITERATURE

Basic (relevant):

1. Казеко, Л. А. Терапевтическая стоматология. Консервативная стоматология = Therapeutic dentistry. Conservative dentistry: учебник для иностр. студентов учреждений высш. образования по спец. «Стоматология» / Л. А. Казеко, Е. Л. Колб, О. А. Тарасенко. – Минск : Вышэйш. шк., 2023. – 369 с.
2. Казеко, Л. А. Консервативная стоматология = Conservative dentistry : учеб. пособие. / Л. А. Казеко. – Минск : БГМУ, 2020. – 252 с.
3. Современные пломбировочные материалы в терапевтической стоматологии = Modern filling materials in therapeutic dentistry : учеб. пособие / Л. А. Казеко и др. – Минск : БГМУ, 2020. – 236 с.

Additional:

4. Mascarenhas, Ana Karina. Burt and Eklund's dentistry, dental practice, and the community / Mascarenhas, Ana Karina, Okunseri, Christopher, Dye, Bruce A. - St. Louis : Elsevier, 2021. - p. 320-334.
5. Гунько, Т. И. Композиционные материалы в реставрационной стоматологии = Composites in clinical dentistry : учеб.-метод. пособие. – Минск : БГМУ, 2018.- 55 с.
6. Казеко, Л. А. Изолирующие и лечебные прокладки в терапевтической стоматологии = Bases and liners in clinical dentist : учеб.-метод. пособие для студентов учреждений высш. образования, обучающихся по специальности 1-79 01 07 «Стоматология» / Л. А. Казеко, , Т. И. Гунько, Е. Л. Колб, И. С. Кармалькова. – Минск : БГМУ, 2017. – 52 с.
7. Казеко, Л. А. Реставрация жевательных зубов = Restoration of posterior teeth : учеб.-метод. пособие. – Минск : БГМУ, 2018.- 39 с.
8. Казеко, Л. А. Апикальный периодонтит: диагностика, клинические проявления, лечение = Apical periodontitis: diagnostics, clinical manifestations, treatment: учеб.-метод. пособие.- Минск : БГМУ, 2015.- 16 с.
9. Казеко, Л. А. Диагностика в терапевтической стоматологии =Diagnostic procedures in therapeutic dentistry : учеб.-метод. пособие. – Минск : БГМУ, 2016. – 51 с.
10. Казеко, Л. А. Заболевания твердых тканей зубов, возникающие после прорезывания = Disease of hard tissues of teeth arising after eruption : учеб.-метод. пособие. – Минск : БГМУ, 2016. – 34.
11. Казеко, Л. А. Зубные отложения = Deposits on the teeth : учеб.-метод. пособие. М., 2016. - 34 с.
12. Казеко, Л.А. Кариес зубов: клиника, диагностика, прогнозирование, лечение = Dental caries:clinical picture, diagnosis, prediction, treatment: учеб.-метод. пособие. – Минск : БГМУ, 2014.- 30 с.
13. Казеко, Л. А. Кариес : этиология, патогенез, профилактика = Dental caries : etiology, pathogenesis, prevention: учеб.-метод. пособие.- Минск : БГМУ, 2014. - 19 с.

14. Казеко, Л. А. Клинические проявления патологии периодонта. Методы диагностики = Clinical manifestation of periodontal pathology. Methods of diagnostics : учеб.-метод. пособие. - Минск : БГМУ, 2016.- 28 с.

15. Казеко, Л. А. Контактный пункт. Способы восстановления = Contact point. Methods of restoration : учеб.-метод. пособие. - Минск : БГМУ, 2016. - 28 с.

16. Казеко, Л. А. Нарушения развития зубов = Developmental disorders of the teeth : учеб.-метод. пособие. - Минск : БГМУ, 2015. - 25 с.

17. Казеко, Л. А. Профессиональная гигиена = Professional oral Hygiene : учеб.-метод. пособие. - Минск : БГМУ, 2016. - 42 с.

18. Казеко, Л. А. Руководство для практических занятий по терапевтической стоматологии = Guide for practical classes in dental therapy : учеб.-метод. пособие для студентов учреждений высш. образования, обучающихся на англ. яз. по спец. 1-79 01 07 «Стоматология». – Минск : БГМУ, 2017. – 60 с.

19. Колб, Е. Л. Амальгама в терапевтической стоматологии = Amalgam in clinical dentistry : учеб.-метод. пособие для студентов учреждений высш. образования, обучающихся на англ. яз. по спец. 1-79 01 07 «Стоматология». – Минск : БГМУ, 2017. – 28 с.

20. Казеко, Л. А. Минимально инвазивные методы оперативного лечения зубов = Minimal invasive methods of tooth operative treatment : учеб.-метод. пособие для студентов учреждений высш. образования, обучающихся на англ. яз. по спец. 1-79 01 07 «Стоматология» / Л. А. Казеко, Ю. В. Модринская, И. С. Кармалькова, Е. Л. Колб. – Минск : БГМУ, 2017. – 20 с.

21. Казеко, Л. А. Методы прогнозирования кариеса зубов = Methods of dental caries prognosis : учеб.-метод. пособие. - Минск : БГМУ, 2021. - 36 с.

22. Литвинчук, Я. О. Адгезивные системы в реставрационной стоматологии = Adhesive systems in restorative dentistry : учеб.-метод. пособие. - Минск : БГМУ, 2020. - 34 с.

23. Казеко, Л. А. Реставрация передних зубов = Restoration of anterior teeth : учеб.-метод. пособие. – Минск : БГМУ, 2018. – 40 с.

24. Казеко, Л. А. Кариес зубов : основы = Dental caries : essentials : учеб.-метод. пособие. – Минск : БГМУ, 2018. – 44 с.

25. Казеко, Л. А. Ошибки и осложнения в диагностике и лечении кариеса зубов = Mistakes and complications in diagnosis and treatment of dental caries : учеб.-метод. пособие. – Минск : БГМУ, 2019. – 23 с.

26. Колб, Е. Л. Асептика и антисептика в стоматологии = Asepsis and antisepsis in dentistry : учеб. – метод. пособие. – Minsk : BSMU, 2018. – 34 p.

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

Main forms of supervised student independent work:
preparation for lectures, practical exercises;
preparation for credits and course exam in the academic discipline;

study of topics (questions) submitted for independent study;
 clinical tasks;
 presentation of scientific reports and creative tasks;
 preparation of thematic reports, abstracts, presentations;
 implementation of practical tasks;
 note-taking of educational literature;
 studying topics and problems that have not been discussed at the lectures;
 taking notes of original sources (sections of anthologies, collections of documents, monographs, textbooks);
 checking up notes of original sources, monographs and articles;
 preparation of tests for the organization of mutual assessment;

LIST OF AVAILABLE DIAGNOSTIC TOOLS

The following forms are used for competences assessment:

1. Oral form:

discussion.

2. Written form:

tests;

control works;

abstracts from scientific journals.

3. Oral-written form:

credit;

exam;

clinical tasks

4. Technical form:

computer tests;

5. Simulation form:

objective structured clinical examination.

LIST OF AVAILABLE TEACHING METHODS

Traditional method (lecture, clinical classes);

Active (interactive) methods:

Problem-Based Learning (PBL);

Team-Based Learning (TBL);

Case-Based Learning (CBL);

Research-Based Learning (RBL);

training based on simulation technologies.

LIST OF PRACTICAL SKILLS

1. Examination and questioning of a dental patient.
2. Palpation of soft tissues, facial bones, oral cavity, lymph nodes, and salivary glands.
3. Percussion of the tooth surface.
4. Probing the tooth.

5. Interpretation of additional research methods (radiation, electrometric diagnostic methods).
6. Interpretation of radiographs.
7. Applying a rubber dam.
8. Determination of the oral hygiene index.
9. Removal of dental deposits.
10. Training in individual oral hygiene.
11. Preparation of carious cavities of I-V classes according to Black on plastic and natural teeth.
12. Filling of cavities of I-V classes according to Black.
13. Application of adhesive systems of different classes.
14. The imposition of insulating and medical pads.
15. Modeling the anatomical shape of the tooth.
16. Aesthetic layer-by-layer restoration of hard tissues of teeth.
17. Grinding and polishing of seals.
18. Teeth whitening (home, office).
19. Registration of medical and reporting documentation.

LIST OF EQUIPMENT USED

1. Motivational models and means of oral hygiene.
2. Educational motivational aids for patients.
3. Cofferdam system.
4. Samples of restoration materials (composite materials of light and chemical curing, glass ionomer cements, compomers).
5. Samples of adhesive systems.
6. Set of tools for working with amalgam, amalgamator.
7. Sample systems for finishing restorations.
8. Apparatus for laser fluorescence DiagnoDent.
9. Interactive computer program «Karyogram».
10. Methodological material for the method of clinical prediction of dental caries.
11. Light cure lamps.
12. Ultrasonic devices for removing dental deposits.
13. Sets of tools for professional hygiene.
14. Samples of polishing pastes and tools for professional hygiene.
15. A set of radiographs.
16. Notes and photocopies of medical records of dental patients.
17. A set of situational tasks.
18. Training and control tests.
19. Simulation equipment.

LIST OF SIMULATION EQUIPMENT

Phantom head - consists of a facial mask of the mouth, a model of the upper and lower jaws with teeth, mount of head.

Training place for a dentist.

LIST OF LECTURES**5 semester**

1. Diagnostics in therapeutic dentistry.
2. Planning of treatment in therapeutic dentistry.
3. Mechanism of development, epidemiology, classification of dental caries.
4. Caries of enamel
5. Caries of dentin
6. Caries of occlusal surfaces of posterior teeth

6 semester

1. Caries of the proximal surfaces of posterior teeth
2. Caries of approximal views of incisors and canines
3. Minimally invasive methods of surgical treatment of dental caries.
4. Possible errors and complications in the diagnosis and treatment of dental caries.
5. Prevention of dental caries in adults. Methods for predicting dental caries.
6. Diseases of tissues of hard teeth, arising before and after eruption of teeth.

7 semester

1. Methods of adhesive preparation of teeth for restoration.
2. Change in the color of the teeth. Discoloration. Includes the development of tooth discoloration, coverage methods.
3. Methods for correcting the color of teeth. Teeth whitening methods.
4. Techniques for the restoration of the anterior teeth.
5. Techniques for the restoration of posterior teeth.
6. Mistakes and complications in restorative therapy.

LIST OF PRACTICAL STUDIES**5 semester**

1. Deontology in therapeutic dentistry. Dental office. Asepsis and antisepsis in the dental office. Basic rules of ergonomics in the work of a dentist.
2. Dental outpatient card. Rules for filling out accounting and reporting dental documentation.
3. Treatment planning in therapeutic dentistry.
4. Diagnostic methods in therapeutic dentistry. Modern visualization tools for a comprehensive examination of the patient.
5. Working field isolation methods.
6. Dental deposits. Calculus indication methods. Hygiene indexes.
7. Individual and professional oral hygiene.
8. Mechanism of development, epidemiology, classification of dental caries.
9. Modern diagnostic systems of dental caries.
10. Clinical manifestations, methods for diagnosing caries of enamel.
11. Differential diagnosis of enamel caries.
12. Treatment methods for enamel caries.
13. Clinical manifestations, methods for diagnosing dentine caries.
14. Differential diagnosis of dentine caries.
15. Treatment methods for dentine caries.

16. Diagnosis and treatment of caries of the occlusal surfaces of the posterior teeth.

17. The choice of materials and clinical features of their use in the restoration of caries of the occlusal surfaces of the posterior of teeth.

18. Diagnosis and treatment of caries of the proximal surfaces of the posterior teeth.

6 semester

1. Matrix systems.

2. The choice of materials and the clinical features of their use in the restoration of caries of the proximal surface of the posterior teeth.

3. Root caries. Clinical picture, diagnosis, treatment methods.

4. Diagnosis and treatment of caries in the cervical part of the teeth.

5. The choice of materials and features clinical application in the restoration of caries in the cervical part of the teeth.

6. Diagnosis and treatment of caries of the proximal surfaces of incisors and canines without violating the integrity of the cutting edge of the crown.

7. The choice of materials and features of clinical application in the restoration of caries of the proximal surfaces of incisors and canines without violating the integrity of the cutting edge of the crown.

8. Diagnosis and treatment of caries of the proximal surfaces of incisors and canines with a violation of the integrity of the cutting edge of the crown.

9. The choice of materials and features of clinical application in the restoration of caries of the proximal surfaces of incisors and canines with a violation of the integrity of the cutting edge of the crown.

10. Diseases of the hard tissues of the teeth arising before eruption (disorders of tooth development)

11. Diagnosis, differential diagnosis and treatment of disorders of hard tissues of teeth arising before eruption (endemic and non-endemic mottling of teeth, hypoplasia).

12. Diseases of the hard tissues of the teeth arising after eruption.

13. Pathological attrition of hard tissues of teeth, abrasion, erosion of the teeth.

14. Minimally invasive methods of treatment of dental caries.

15. Possible errors and complications in the diagnosis and treatment of dental caries.

16. Prevention of dental caries in adults.

17. Methods for predicting dental caries.

7 semester

1. Tooth trauma.

2. Clinical picture, diagnosis, methods of treatment of dentin hypersensitivity.

3. Causes and methods for elimination of postoperative tooth sensitivity.

4. Methods of adhesive preparation of teeth for restoration.

5. Change in tooth color. Discoloration. Reasons for the development of discoloration of teeth, methods of elimination.

6. Methods for correcting tooth color.

7. Teeth whitening, indications, contraindications. Dental bleaching materials.

8. Home and office dental bleaching.
9. Possibilities of using modern restorative materials in various clinical situations.
10. Aesthetics of a smile. Criteria for evaluation.

8 semester

1. Optical effects in aesthetic restoration of teeth.
2. Techniques for the restoration of the anterior teeth.
3. Classification and indications for the use of veneers.
4. Techniques for the restoration of the occlusion teeth.
5. One-session replacement of dentition defects.
6. Criteria for evaluating the effectiveness of caries treatment.
7. Mistakes and complications in restorative therapy.
8. Prevention of complications in outpatient dental care.

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

Title of the discipline requiring approval	Department	Amendments to the curriculum in the academic discipline	Decision of the department, which designed the curriculum (date, protocol #)
1. Endodontics	Department of Endodontics	no	protocol # 14 of 12.04.2023
2. Pediatric Dentistry	Department of Pediatric Dentistry	no	protocol # 14 of 12.04.2023

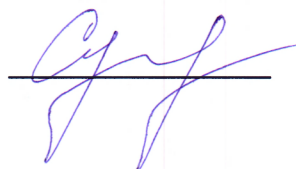
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Associate professor of the of the Department of Conservative Dentistry of the Belarusian State Medical University, PhD, Associate Professor



S.P.Sulkovskaya

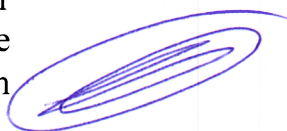
Associate professor of the of the Department of Conservative Dentistry of the Belarusian State Medical University, PhD, Associate Professor



O.S.Gorodetska

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

Dean of the Medical Faculty for International Students of the educational institution «Belarusian State Medical University»



O.S.Ishutin

26.06.23

Methodologist of the educational institution «Belarusian State Medical University»



S.V.Zaturanova

26.06.23