

MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS  
Educational establishment  
BELARUSIAN STATE MEDICAL UNIVERSITY

Контрольный  
экземпляр

APPROVED  
The first Vice-rector, Professor  
S.V. Gubkin  
Reg. № 111-1/1516/15

**THERAPEUTIC DENTISTRY**  
Teaching curriculum of higher education establishment  
in academic discipline for the specialty:

1-79 01 07 «Dentistry»

Minsk BSMU 2015

This curricula is based on Educational higher establishment curricula approved «18» 06 2015 year, registration # TR-LSOS/mccr.

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**RECOMMENDED FOR APPROVAL:**

This curricula has been discussed and recommended for approval at the 1-st Department of Dental Therapy meeting, 13.05.2015 (report #18).

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## EXPLANATORY NOTE

**Therapeutic dentistry** is a subject of systematized scientific knowledge about the etiology and pathogenesis of diseases of the teeth, periodontal tissues and oral mucosa, their diagnosis, treatment and prevention.

The study of «Therapeutic dentistry» discipline allows to acquire knowledge about the mechanisms of dental disease development, methods of their prevention and therapeutic treatment, which is a prerequisite for the successful assimilation of following disciplines: «Prosthodontics», «Maxillofacial Surgery», «Pediatric dentistry and prevention of dental diseases», «Orthodontics», «Communal dentistry». Therefore, preventive dentistry is the basis for the preparation of highly qualified dentists.

Characteristic feature of the new curriculum is to include the latest scientific data on cariesology and endodontics.

The objective of teaching and learning of «Therapeutic dentistry» is formation and acquirement of scientific knowledge about the etiology, pathogenesis, diagnosis, treatment and prevention of diseases of the teeth, periodontal tissues and oral mucosa.

Tasks of the discipline are to acquire the academic competence by the students, the base of which is the ability for self-searching training of information resources, mastery and understanding of methods of acquiring knowledge:

- the principles of prevention and elimination of risk factors of dental disease, leading to disruption of health, aesthetics, function of teeth and surrounding tissues;
- oral health philosophy based on respect to the oral hygiene;
- skills for making individual prevention plan;
- diagnosis and treatment of oral pathology;
- methods of examination, differential diagnosis and filling medical records;
- periodontal tissues, principles of prevention and treatment of periodontal disease;
- skills for the restoration therapy;
- principles of endodontic treatment;
- therapeutic measures to maintain periodontal health;
- integrated endodontic treatment with other sections of the patient's treatment plan (periodontology, orthopedics, surgery, etc.);
- diagnosis of emergency conditions and providing comprehensive dental care.

Teaching goals include the formation of social and personal and professional competence, enabling the establishment of clinical thinking in compliance with medical ethics and deontology.

Teaching and successful learning course "Preventive dentistry" is based on the student's acquirement of knowledge and skills in sections of the following disciplines:

**General Chemistry.** Elements of chemical thermodynamics. Elements of chemical kinetics. Buffer system, pH. Rheological properties of restorative materials. The chemical composition and properties of the filling material. Influence of filling materials on the organs and tissues of the mouth.

**Bioorganic chemistry.** Regularities in the relationship between structure and reactivity of natural and synthetic organic compounds. Behavior of organic compounds in the body and the environment. Exchange of organic substances in the tooth tissues. Methods for preparing polymers using polymerization reaction mechanisms in the manufacture of polymers, filling materials.

**Medical and biological physics.** Device and the appointment of medical equipment. Safety rules during working with electrical appliances. Conductivity of hard and soft tissues of the teeth. X-ray radiation, the biophysical action mechanisms. Fundamentals of mathematical statistics. Theoretical foundations of computer science. The use of computers and automated control systems in health care.

**Medical biology and general genetics.** Molecular genetic and cellular levels of organization. Genetic basis for the development of biological species. Genetic disorder and its manifestations. Biosphere and biogenetic level of organization of the living. Ecology.

**Biological Chemistry.** Metabolism of proteins, lipids, carbohydrates. Biochemistry of tooth tissues. Biochemistry of plaque. Biochemical composition of saliva, the value of mineral and organic saliva components in the physiology and pathology of the organs and tissues of the mouth. Calcium and phosphorus metabolism in the human body and teeth.

**Human anatomy.** International anatomical terminology. The anatomy of the teeth, the pulp periodontium. Facial bones and cranium. Innervation, blood and lymph supply of the maxillofacial region. Topographical features of the maxillofacial region. Anatomy of the central and peripheral nervous system.

**Histology, cytology, embryology.** International histological terminology. Histological structure of enamel, dentin, cementum, dental pulp, periodontium and oral mucosa. Development and timing of eruption of temporary and permanent teeth.

**General Dentistry.** Facilities and equipment of dental office. Tools for clinical assessment and treatment of the teeth and the mucous membrane. Classification of cavities. Preparation of cavities. Materials for restoration of hard tissues defects. Methods for restoration of hard tissues defects. Endodontic instruments. Methods of root canal treatment. Tools and materials for filling root canals. Methods of filling root canals.

**Normal physiology.** Meaning of fluorine in physiology and pathology of teeth, fluorine exchange in humans. The role of hormones in the regulation of mineral metabolism in the teeth tissues. Role in the occurrence of dental diseases reactivity. Causes, mechanisms and manifestations of typical disorders of organs and systems of the oral cavity. Physiological functions of the tooth, pulp and

periodontium. Options of oral mucosa under physiological and pathological conditions. Mechanisms of pain in dental diseases.

**Microbiology, virology, immunology.** Viruses and microbial flora of the mouth. Plaque microflora. The human immune system. Antigens. Specific and nonspecific protection factors of the oral cavity.

**General hygiene.** Environmental effects on the occurrence and course of pathological processes in the organs and tissues. Occupational hazards and their effects on organs and tissues of the mouth. Sanitary standards of environment, water and food.

**Pathological anatomy.** Pathologic processes in the enamel, dentin, cementum, bone in pathological conditions. Pathological changes in the pulp and periodontium. Pathological changes of the oral mucosa, resulting in diseases of the teeth and tissues of the oral cavity. Pathological changes of the oral mucosa, resulting in systemic diseases.

**Pathological physiology.** Pathophysiology of pain. Allergic processes in dentistry. Nonspecific and immunological resistance of oral tissues. Homeostasis disorder. Typical disorders of calcium and phosphorus metabolism.

**Pharmacology.** Drugs used for anesthesia in dentistry. Drugs used for the treatment of pulp and periodontium. Drugs used for dental caries prevention. Toxic effect of drugs on the human body, tissues and organs of the mouth.

**Internal medicine.** Principles of patients' examination, the basics of diagnosis. Diseases of the cardiovascular system. The main symptoms of respiratory diseases. The clinic, diagnosis and emergency care to patients with life-threatening conditions. Clinical manifestations of occupational hazards in the mouth.

**Surgical diseases.** The definition of acute surgical pathology. Wounds and wound infection. The clinic, diagnosis and emergency care to patients with life-threatening conditions.

**Prostodontics.** Indications for orthopaedic treatment of patients with defects of crowns with fixed prostheses. Orthopaedic treatment of patients with partial defects of crowns with inlays. Orthopaedic treatment of patients with partial defects of crowns with metal crowns. Orthopaedic treatment of patients with partial defects with metal-ceramic, metal-acrylic, plastic crowns. Orthopaedic treatment of full crown defect. Orthopaedic treatment of patients with developmental disorders and diseases of hard tissues .

**Pediatric dentistry and prevention of dental diseases.** Methods for determining oral hygiene status. Methods of systemic and local prevention of dental caries and periodontal diseases. Means and methods of oral hygiene content. Professional hygiene.

**Maxillofacial surgery and dental surgery.** Local anesthesia (infiltration and conduction anesthesia). Complications of local anesthesia. Inflammatory diseases of periodontal tissues, jaws and admaxillary tissues. Injuries and diseases of the temporomandibular joint. Diseases of the salivary glands.

**Beam diagnostics and radiotherapy.** Radiographic study. Providing the protection of patients and staff from ionizing radiation. Radiation diagnosis of caries, its complications, periodontal diseases. Periapical, bite and extraoral radiograph.

**Otorhinolaryngology.** Relationship between diseases of organs and tissues of the mouth, face, jaws with the pathology of the ear, nose and throat. Professional diseases of the ear, nose and throat in the dentists' activities.

The structure of "Therapeutic dentistry" curriculum includes eight sections.

**Requirements for the preparation of student at the end of discipline**

The student should know:

- terminology and the international classification of diseases (ICD-10);
- the history of dentistry in the world and therapeutic dentistry in Belarus;
- orders and guidance letters that determine the operation of a dentist;
- etiology and pathogenesis of caries and its complications and periodontal diseases;
- the principles of differential diagnosis and treatment of diseases of the oral mucosa;
- plan of examination in diseases of periodontium and oral mucosa;
- treatment regimen, including medications;
- indications and contraindications to the use of drugs and filling materials, including endodontic;
- indications and contraindications to the use of physical therapy methods;
- methods of evaluating the effectiveness of treatment and prevention;
- medical documentation of dental office, clinic;
- modern lines of research in the Republic of Belarus and abroad.

The student should be able to:

- create an understanding with the patient, observing medical ethics in communication and actions;
- to assess the overall condition of the patient before and during treatment and diagnostic measures;
- reduce or eliminate toothache by general or local anesthesia;
- to treat tooth decay, pulpitis, apical periodontitis, gingivitis;
- to determine the indications for surgical treatment of complicated caries, surgical, orthopedic treatment of periodontitis;
- timely establish the need for additional research, consultation with specialist;
- plan and implement effective primary, secondary and tertiary prevention of diseases of the teeth, periodontium and oral mucosa.

**Characteristics of recommended teaching methods.** Traditional methods of teaching: lectures, workshops, seminars, as well as elements of the controlled independent work of students are used during training process. The training is organized using traditional and modern teaching and informative resources (computer presentations of lectures and workshops, showing educational films).

Practical classes are conducted in a dental clinic treatment rooms , equipped with dental units, suitable for treating a patient in ergonomic conditions ( 4 hands - one student acts as a doctor, the other - the function of physician assistant ) . The main objective of practical training - mastering the students in the prevention , diagnosis and treatment of dental diseases. Students are introduced to safe working conditions in the dental office, with international requirements and ethical standards dealing with the patient.

Practical session consists of a theoretical and practical part.

The theoretical part of the lesson - learning material and assessment the degree of learning, the practical part of the lesson – dental students take patients under the supervision of a teacher. Student is required to conduct a full examination of dental patient, obtain dental patients’ card, report the teacher survey results, focusing on diagnosis and comprehensive treatment plan of the patient.

Throughout the practical classes the teacher controls and evaluates the correct assessment of the patient, performing medical diagnostic procedures, as well as the completeness of records in the dental medical card. At the end of the practical classes everything is summarized.

Practical minimum is determined for every semester:

- therapeutic and preventive activities (for students’ self-fulfillment);
- required amount of admitted patients in the semester.

Performing a practical minimum is confirmed by the report, which is certified by the teacher after each practical classes.

The study of preventive dentistry includes 158 academic hours in the 5th semester, 172 academic hours in the 6th semester (330 hours total). Tutorials – 99 hours in the 5th semester, 99 hours in the 6th semester (198 hours total), including lectures in the 5th semester – 14 hours, in the 6th semester – 14 hours (total 28 hours); practical classes in laboratory – 85 hours in the 5th semester, 85 hours in the 6th semester (total 170 hours). Extracurricular hours for self-study – 59 hours in the 5th semester, 73 hours in the 6th semester (total 132 hours). Current assessment is carried out in the form of credit in the 5th semester and in the form of course examination in the 6th semester.

Independent work of students includes:

- homework;
- individual research projects on the topics recommended; preparation of abstracts, deepening the knowledge on each section of the discipline. Work on the project involves scientific research data selection, processing, analysis and systematization;
- participation in scientific research: purposeful literature study, analysis of achievements in science and technology on the subject; conducting the study of the dental status of the population in different age groups, the study of new methods of diagnosis and treatment of dental diseases;
- making presentations at student conferences.



## CURRICULUM CONTENT

Topic	Class hours	
	lectures	practicals
<b>5<sup>th</sup> semester</b>		
1.1. Deontology in therapeutic dentistry. Dental office. Sterilization of dental instruments. Basic rules of ergonomics in the dentist's work	-	5
2.1. Diagnostics in therapeutic dentistry	2	
2.2. Treatment planning in therapeutic dentistry	1	
2.3. Diagnostic methods in therapeutic dentistry	-	5
2.4. Dental patient's card. Accounting and reporting dental records. Rules of filling in	-	5
3.2. Individual and professional oral hygiene. Indication methods of dental plaque. Hygienic indices	-	5
7.1. Clinical manifestations of gingivitis		
7.2. Clinical research methods characterizing the destructive processes in periodontal tissues	-	5
4.1. Caries. The mechanism of development, epidemiology, classification	2	5
4.2. Enamel caries. Clinical picture, diagnostic techniques, treatment	1	5
4.3. Dentin caries. Clinical features, diagnosis, differential diagnosis	-	5
4.4. Dentin caries. Methods of treatment		5
4.5. Diagnosis and treatment of occlusal surfaces caries of posterior teeth	2	5
4.6. Diagnosis and treatment of caries on the approximal surfaces of posterior teeth	-	5
4.8. Diagnosis and treatment of dental neck caries	-	5
4.10. Possible mistakes and complications in the diagnosis and treatment of dental caries	1	5
4.11. Possible applications of restorative materials in various clinical situations	-	
4.18. Minimally invasive methods of operative treatment of caries	1	
3.1. Prevention of dental caries in adults	1	5
4.25. Prognostication methods of dental caries	1	5
5.1. Diseases of hard tissues arising before the eruption (developmental disorders): mottled teeth, hypoplasia	1	5
5.2. Diseases of hard tissues arising after the eruption. Concluding session	1	5
<b>Total</b>	<b>14</b>	<b>85</b>

Topic	Class hours	
	lectures	practicals
<b>6<sup>th</sup> semester</b>		
4.18. Minimally invasive methods of operative treatment of caries	-	5
4.13. Materials for dental pulp insulation	-	5
4.14. Features of the amalgam clinical application in teeth restoration	-	5
4.15. Features of the composite materials clinical application in teeth restoration	-	5
4.16. Methods of adhesive teeth preparation for restoration	-	5
6.1. Pulpitis. The mechanism of development, classification	2	-
6.2. Acute pulpitis. Clinical picture, diagnostic techniques	1	5
6.3. Chronic pulpitis. Clinical picture, diagnostic techniques	1	5
6.4. Methods of the pulpitis treatment	2	
6.5. Treatment of the pulpitis under local anesthesia	-	5
6.6. Treatment of pulpitis using devitalizing means	-	5
6.7. Apical periodontitis. The development mechanism, classification	2	
6.8. Acute apical periodontitis. Clinical picture, diagnostic techniques. Emergency treatment	1	5
6.9. Chronic apical periodontitis. Clinical picture, diagnostic and treatment methods	1	5
6.13. Mechanical treatment of root canals. Stages of endodontic treatment	1	
6.14. Mechanical treatment of root canals. Rules for dealing with endodontic instruments in the clinic	-	5
6.15. Root canal preparation techniques. Determining the length of root canals in the clinic	-	5
6.17. Irrigation of root canal system. Means of intracanal therapy in the clinic	1	5
6.19. Methods of root canal obturation. Means of root canals filling	2	5
6.22. Endodontic treatment quality assessment	-	5
6.24. Mistakes and complications in pulpitis and apical periodontitis diagnosis and treatment, preventive methods	-	5
<b>Total</b>	<b>14</b>	<b>85</b>

## CONTENT OF EDUCATIONAL MATERIAL

### 5<sup>th</sup> – 6<sup>th</sup> SEMESTERS

#### 1. INTRODUCTION TO THERAPEUTIC DENTISTRY

**1.1. Deontology in therapeutic dentistry. Dental office, preventive dentistry. Sterilization of dental instruments. Basic rules of ergonomics in the work of the dentist.**

Deontologic aspects of dentistry. Organization of physician relationship with patients and medical staff. The organizational structure of dental clinics and dental therapeutic department. Workplace organization and selection of optimal working position. Work rules of physician's assistant.

#### 2. DIAGNOSIS AND TREATMENT PLANNING

##### 2.1. Diagnostics in therapeutic dentistry.

The purpose and objectives of diagnosis. Primary examination of a dental patient. Detailed examination. Diagnostic methods and steps. Recommendations of the World Health Organization for the diagnosis of dental diseases.

##### 2.2. Treatment planning in therapeutic dentistry.

Stages of treatment planning. Emergency assistance, indication. Systematic dental care: therapeutic, surgical, orthopedic, prevention of dental diseases.

##### 2.3. Diagnostic methods in therapeutic dentistry.

The main methods of diagnosis: interview of the patient (patient complaints, medical history, life, allergy), external examination, examination of organs and tissues, dentition. Palpation, probing, percussion. Additional methods of diagnosis of dental diseases. Laboratory Methods

**2.4. Dental patient's card. Accounting and reporting dental records. Rules of filling in.**

Patient's card as medical and legal document. Other dental records: ledger of a dentist, diary accounting treatment and prevention, prescription forms, directions. Rules for filling.

##### 2.7. Methods and means of giving anesthesia in therapeutic dentistry.

Local anesthetics, action mechanism. General rules and techniques of giving local anesthesia. Anesthesia peculiarities in therapeutic dentistry.

#### 3. PREVENTION

##### 3.1. Dental caries prevention of in adults.

Objectives and methods of dental caries prevention in adults: oral hygiene, balanced diet, the use of fluorides.

**3.2. Oral hygiene: individual care and professional cleaning. Dental deposits indication methods. Hygienic indices.**

The role of oral hygiene. Theories of plaque formation. It's role in the pathology of oral tissues. Motivation interviewing of a patient with a demonstration of motivation materials. Agents of oral hygiene: basic, additional. Techniques of tooth brushing. Oral hygiene guidelines. Removing of the above- and subgingival plaque. Dental deposits indication methods. Hygienic indices

(simple Green-Vermillion hygiene index, efficiency index oral hygiene efficiency index by Podlshadley, Haley).

#### **4. CARIOLOGY**

##### **4.1. Dental caries. Development mechanisms, epidemiology, classification.**

Definition of dental caries. Epidemiology. Aetiology, caries development theories, pathogenesis. Pathologic changes in dental tissues in case of dental caries. Classifications of dental caries (Black's classification, anatomical and topographical, ICD-10).

##### **4.2. Enamel caries. Clinical picture, diagnostic techniques. Treatment.**

Clinical manifestations of enamel caries (primary and surface caries). Basic and advanced diagnostic techniques. Treatment.

##### **4.3. Dentin caries. Clinical picture, diagnostic techniques.**

Clinical manifestations of dentin caries (medium and deep). Basic and additional diagnostic methods.

##### **4.4. Dentin caries. Methods of treatment . Medicated linings.**

Treatment of dentinal caries according to the depth of the pathological process. Classification of medical linings. Indications for administration. Working technique.

##### **4.5. Diagnosis and treatment of occlusal surfaces caries of posterior teeth. Choice of filling material.**

Rules of cavity preparation and design on the occlusal surfaces of posterior teeth. Choice of filling materials.

##### **4.6. Diagnosis and treatment of caries on the approximal surfaces of posterior teeth. Contact point, restoration methods. Choice of filling material.**

Rules of cavity preparation and design on the approximal surfaces of posterior teeth, additional retention area. Choice of filling materials. Methods of contact point restoration.

##### **4.8. Diagnosis and treatment of dental neck caries. Choice of filling material.**

Rules of cavity preparation and design of cavities in the tooth necks. Choice of filling materials.

##### **4.10. Possible mistakes and complications in the diagnosis and treatment of dental caries.**

Possible mistakes while making the diagnosis and differential diagnosis of dental caries. Mistakes in restorative therapy at the stages of cavity preparation and design, filling material, application of the adhesive system, modeling, finishing the restoration. Complications, methods of their elimination.

##### **4.11. Possible applications of restorative materials in various clinical situations.**

Properties and indications for filling materials choice.

##### **4.13. Pulp insulation materials. Peculiarities of clinical application.**

Material requirements for the isolation of the tooth pulp. Classification. Indications for administration. Techniques of working with materials designed to isolate the tooth pulp in the clinic.

**4.14. Features of amalgam clinical use in teeth restoration.**

Properties of amalgams. Amalgam containing no gamma-2 phase, advantages. Indications for using amalgams. Peculiarities of cavities design. Guidelines to work with amalgam at the clinic.

**4.15. Features of composite materials clinical application in teeth restoration.**

Choice of composite material according to cavities localization. Classification of composites. Basic properties. Guidelines to work with composite materials at the clinic.

**4.16. Methods of adhesive teeth preparation for restoration.**

The history of adhesive preparation development in restoration therapy of cavities. Generations of adhesive systems. Peculiarities of adhesive system application of various generations at the clinic.

**4.18. Minimally invasive methods of operative treatment of caries.**

Indications and contraindications to the use of minimally invasive methods of surgical treatment of dental caries. Stages and techniques.

**4.25. Prognostication methods of dental caries.**

Meaning of dental caries prognostication. Clinical, laboratory, instrumental, computer methods of dental caries prognostication. The role of prognostication caries in the patient's motivation.

**5. DEVELOPMENTAL DISORDERS AND OTHER DISEASES OF HARD TISSUES**

**5.1. Diseases of hard tissues, arising before the eruption (developmental disorders): mottled teeth, hypoplasia.**

Classification of pathologic changes of hard dental tissues arising before the eruption. The mechanism of development, clinical picture, diagnostic methods, treatment principles of mottled teeth, hypoplasia. Prevention.

**5.2. Diseases of hard tissues arising after the eruption.**

Classification of pathologic changes of hard dental tissues arising after the eruption. The mechanism of development, clinical picture, diagnostic methods, treatment principles of mottled teeth, hypoplasia. Prevention.

**6. PULP AND PERIAPICAL TISSUES DISEASES. ENDODONTICS**

**6.1. Pulpitis. Mechanism of development, classification.**

Aetiologic factors and pathogenetic aspects of various forms of pulpitis according to the classifications. Comparison of pulpitis classifications.

**6.2. Acute pulpitis. Clinical picture, diagnostic techniques.**

Clinical manifestations of acute pulpitis. Diagnosis, differential diagnosis. Emergency care.

**6.3. Chronic pulpitis. Clinical picture, diagnostic techniques.**

Clinical manifestations of chronic pulpitis. Diagnosis, differential diagnosis.

**6.4. Treatment methods of pulpitis.**

Pulpitis treatment under local anesthesia. Pulpitis treatment using devitalizing means.

**6.5. Treatment of pulpitis under local anesthesia. Indications. Contraindications. Stages of treatment.**

Indications for pulpitis treatment under local anesthesia. Contraindications. Stages of pulpitis treatment under local anesthesia.

**6.6. Treatment of pulpitis using devitalizing means. Indications. Contraindications. Stages of treatment.**

Indications for pulpitis treatment using devitalizing means. Contraindications. Choice of medications for pulp devitalization. Pulpitis treatment stages using devitalizing means.

**6.7. Apical periodontitis. The mechanism of development, classification.**

Etiologic factors and pathogenetic aspects of various forms of apical periodontitis according to the classifications. Comparison of apical periodontitis classifications.

**6.8. Acute apical periodontitis. Clinical picture, diagnostic techniques. Emergency treatment.**

Clinical manifestations of acute apical periodontitis. Basic and additional methods of diagnosis, differential diagnosis. Emergency.

**6.9. Chronic apical periodontitis. Clinical picture, diagnostic methods.**

Clinical manifestations of chronic apical periodontitis. Basic and advanced methods of diagnosis, differential diagnosis. Radiological diagnosis of apical periodontitis.

**6.13. Mechanical treatment of root canals. Stages of endodontic treatment.**

Indications, aims, objectives of endodontic treatment. Basic rules of endodontic preparation techniques. Performing principles of endodontic preparation of the tooth crown. Principles of endodontic preparation of the tooth root.

**6.14. Mechanical treatment of root canals. Rules for dealing with endodontic instruments in the clinic.**

Standards and classification of endodontic instruments. International standard ISO. Indications for the use of endodontic instruments, working rules in the clinic.

**6.15. Root canal preparation techniques. Determining the length of root canals in the clinic.**

Indications for the choice of instrumental root canal treatment techniques. Stages of different methods of root canals preparation. Working length of the root canal. Methods of its determination.

**6.17. Medical treatment of root canals. Means of intracanal therapy in the clinic.**

Drugs for medical treatment of root canals. Technique of root canal irrigation. Drugs for the temporary filling of root canals.

**6.19. Methods of root canal obturation. Means of root canal filling.**

Main groups of sealers characteristics. Gutta-percha points. The method of application. Stages of root canals filling by lateral condensation.

**6.22. Endodontic treatment quality assessment.**

Clinical assessment of diagnostic radiographs. Clinical and radiological criteria and terms of endodontic treatment quality assessment.

**6.24. Mistakes and complications in pulpitis and apical periodontitis diagnosis and treatment of, preventive methods.**

Mistakes in the diagnosis of pulpitis and apical periodontitis. Mistakes and complications in the treatment of pulpitis and apical periodontitis. Possible complications prevention in the treatment of pulpitis and apical periodontitis.

**7. PERIODONTAL DISEASE****7.1. Clinical manifestations of gingivitis.**

Risk factors in the occurrence of gingivitis. The correlation between the oral hygiene and periodontal tissues inflammation. Clinical signs of acute and chronic gum inflammation. Index of gingivitis (Loe-Silness, 1963).

**7.2. Clinical research methods characterizing the destructive processes in periodontal tissues.**

Clinical signs of destructive processes in periodontal tissues. Periodontal index CPI (P.A.Leus,1988). X-ray of periodontal tissue assessment.

**EDUCATIONAL-METHODICAL CHART ON DISCIPLINE  
«THERAPEUTIC DENTISTRY»  
5; 6 SEMESTERS**

Number of the theme section	Theme section title	Number of academic hours			Form of control index
		lectures	practical classes	independent student's work	
<b>5<sup>th</sup> semester</b>					
1.1.	Deontology in therapeutic dentistry. Dental office. Sterilization of dental instruments. Basic rules of ergonomics in the dentist's work	-	5	4	1.1, 2.2
2.1.	Diagnostics in therapeutic dentistry	2	-	-	1.1, 2.2
2.2.	Treatment planning in therapeutic dentistry	1	-	-	1.1, 2.2
2.3.	Diagnostic methods in therapeutic dentistry	-	5	4	1.1, 1.7, 2.2
2.4.	Dental patient's card. Accounting and	-	5	4	1.1, 2.2

Number of the theme section	Theme section title	Number of academic hours			Form of control index
		lectures	practical classes	independent student's work	
3.2.	reporting dental records. Rules of filling in Individual and professional oral hygiene. Indication methods of dental plaque. Hygienic indices	-	5	4	1.1., 1.7, 2.2
7.1.	Clinical manifestations of gingivitis	-	5	4	1.1, 2.2, 3.2
7.2.	Clinical research methods characterizing the destructive processes in periodontal tissues	-	5	4	1.1, 1.7, 2.2
4.1.	Caries. The mechanism of development, epidemiology, classification	2	5	4	1.1, 2.2
4.2.	Enamel caries. Clinical picture, diagnostic techniques, treatment	1	5	4	1.1, 1.7, 2.2
4.3.	Dentin caries. Clinical features, diagnosis, differential diagnosis	2	5	4	1.1, 1.7, 2.2
4.4.	Dentin caries. Methods of treatment, pulp caps	-	5	3	1.1, 1.7, 2.2
4.5.	Diagnosis and treatment of occlusal surfaces caries of posterior teeth	-	5	3	1.1, 2.2
4.6.	Diagnosis and treatment of caries on the approximal surfaces of posterior teeth	-	5	3	1.1, 2.2
4.8.	Diagnosis and treatment of dental neck caries	-	5	3	1.1, 1.7, 1.8
4.10.	Possible mistakes and complications in the diagnosis and treatment of dental caries	1	5	3	1.1, 1.7, 1.8
4.11.	Possible applications of restorative materials in various clinical situations	-	-	-	1.1, 1.7, 1.8
4.18.	Minimally invasive methods of operative treatment of caries	1	-	-	1.1, 2.2
3.1.	Prevention of dental caries in adults	1	5	3	1.1, 1.7, 1.8
4.25.	Prognostication methods of dental caries	1	5	3	1.1, 1.7, 1.8
5.1.	Diseases of hard tissues arising before the eruption (developmental disorders): mottled teeth, hypoplasia	1	5	3	1.1, 2.2
5.2.	Diseases of hard tissues arising after the eruption	1	5	3	1.1, 1.5 зачет
	<b>In total</b>	<b>14</b>	<b>85</b>	<b>59</b>	



Number of the theme section	Theme section title	Number of academic hours			Form of control index
		lectures	practical classes	independent student's work	
<b>6<sup>th</sup> semester</b>					
4.18.	Minimally invasive methods of operative treatment of caries	-	5	4	1.1, 2.2
4.13	Materials for dental pulp insulation	-	5	4	1.1, 2.2
4.14.	Features of the amalgam clinical application in teeth restoration	-	5	4	1.1, 2.2
4.15.	Features of the composite materials clinical application in teeth restoration	-	5	4	1.1, 1.7, 2.2
4.16.	Methods of adhesive teeth preparation for restoration	-	5	4	1.1, 1.7, 2.2
6.1.	Pulpitis. The mechanism of development, classification	2	-	-	1.1, 1.7, 2.2
6.2.	Acute pulpitis. Clinical picture, diagnostic techniques	1	5	4	1.1, 1.7, 1.8
6.3.	Chronic pulpitis. Clinical picture, diagnostic techniques	1	5	4	1.1, 1.7, 1.8
6.4.	Methods of the pulpitis treatment	2	-	-	1.1, 1.7, 1.8
6.5.	Treatment of the pulpitis under local anesthesia	-	5	4	1.1, 2.2
6.6.	Treatment of pulpitis using devitalizing means	-	5	4	1.1, 2.2
6.7.	Apical periodontitis. The development mechanism, classification	2	-	-	1.1, 1.7, 2.2
6.8.	Acute apical periodontitis. Clinical picture, diagnostic techniques. Emergency treatment	1	5	4	1.1, 2.2
6.9.	Chronic apical periodontitis. Clinical picture, diagnostic and treatment methods	1	5	4	1.1, 2.2
6.13.	Mechanical treatment of root canals. Stages of endodontic treatment	1	-	-	1.1, 2.2
6.14.	Mechanical treatment of root canals. Rules for dealing with endodontic instruments in the clinic	-	5	4	1.1, 1.7, 1.8
6.15.	Root canal preparation techniques. Determining the length of root canals in the clinic	-	5	5	1.1, 1.7, 1.8
6.17.	Irrigation of root canal system. Means of	1	5	5	1.1, 2.2

Number of the theme section	Theme section title	Number of academic hours			Form of control index
		lectures	practical classes	independent student's work	
	intra canal therapy in the clinic				
6.19.	Methods of root canal obturation. Means of root canals filling	2	5	5	1.1, 1.7, 1.8
6.22	Endodontic treatment quality assessment	-	5	5	1.1, 1.7, 1.8
6.24.	Mistakes and complications in pulpitis and apical periodontitis diagnosis and treatment, preventive methods	-	5	5	1.1, 1.6
	<b>In total</b>	<b>14</b>	<b>85</b>	<b>73</b>	

Head of the 1st Department of Dental Therapy  
associate professor



L.A. Kazeko

11.05.2015.

## INFORMATION AND METHODOLOGICAL PART

### REFERENCES

#### 5<sup>th</sup>–6<sup>th</sup> semester

##### Basic:

1. Nisha Garg, Amit Garg. Textbook of operative dentistry / Jaypee Brothers Medical Publishers (P) LTD, 2<sup>nd</sup> edition, 2013. – 605 p.
2. Казеко, Л.А. Dental caries: etiology, pathogenesis, prevention : учеб.-метод. пособие / Л.А. Казеко, К.В. Севрукевич. - Минск: БГМУ, 2014. – 19 с.
3. Казеко, Л.А. Dental caries: clinical picture, diagnosis, prediction, treatment : учеб.-метод. пособие / Л.А. Казеко, Ю.В. Модринская, К.В. Севрукевич. – Минск : БГМУ, 2014. – 30 с.
4. Казеко, Л.А. Pulpitis: etiology, pathogenesis, classification : учеб.-метод. пособие / Л.А. Казеко, Ю.В. Модринская, К.В. Севрукевич. – Минск : БГМУ, 2014. – 19 с.
5. Казеко, Л.А. Pulpitis: diagnostics, clinical manifestations, treatment : учеб.-метод. пособие / Л.А. Казеко, Ю.В. Модринская, К.В. Севрукевич. – Минск : БГМУ, 2015. – 28 с.
6. Казеко Л.А. Developmental disorders of the teeth : учеб.-метод. пособие / Л.А. Казеко, Е.Л. Колб. – Минск : БГМУ, 2015. – 26 с. Казеко Л.А. Apical periodontitis: etiology, pathogenesis, classification : учеб.-метод. пособие / Л.А. Казеко, Ю.В. Модринская, К.В. Севрукевич, Е.Л. Колб. – Минск : БГМУ, 2015. – 28 с.
7. Казеко Л.А. Root canal irrigants and medications : учеб.-метод. пособие / Л.А. Казеко, Е.Л. Колб. – Минск : БГМУ, 2015. – 28 с.

### LIST OF VISUAL AIDS

#### Computer presentations

##### 5<sup>th</sup>–6<sup>th</sup> semester

1. Колб, Е.Л., Кармалькова, И.С. Deontology in therapeutic dentistry. Dental office. Sterilization of dental instruments. Basic rules of ergonomics in the dentist's work / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,3 Мб) – Мн.: БГМУ, 2014.
2. Колб, Е.Л., Кармалькова, И.С. Diagnostic methods in therapeutic dentistry / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,5 Мб) – Мн.: БГМУ, 2014.
3. Колб, Е.Л., Кармалькова, И.С. Dental patient's card. Accounting and reporting dental records. Rules of filling in / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,1 Мб) – Мн.: БГМУ, 2014.
4. Колб, Е.Л., Кармалькова, И.С. Individual and professional oral hygiene. Indication methods of dental plaque. Hygienic indices / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (3,5 Мб) – Мн.: БГМУ, 2014.

5. Колб, Е.Л., Кармалькова, И.С. Clinical manifestations of gingivitis. Clinical research methods characterizing the destructive processes in periodontal tissues / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (1,72 Мб) – Мн.: БГМУ, 2014.
6. Колб, Е.Л., Кармалькова, И.С. Caries. The mechanism of development, epidemiology, classification / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,5 Мб) – Мн.: БГМУ, 2014.
7. Колб, Е.Л., Кармалькова, И.С. Caries. Enamel caries. Clinical picture, diagnostic techniques, treatment / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,7 Мб) – Мн.: БГМУ, 2014.
8. Колб, Е.Л., Кармалькова, И.С. Dentin caries. Clinical features, diagnosis, differential diagnosis / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,3 Мб) – Мн.: БГМУ, 2014.
9. Колб, Е.Л., Кармалькова, И.С. Dentin caries. Methods of treatment / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (1,7 Мб) – Мн.: БГМУ, 2014.
10. Колб, Е.Л., Кармалькова, И.С. Diagnosis and treatment of occlusal surfaces caries of posterior teeth / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,3 Мб) – Мн.: БГМУ, 2014.
11. Колб, Е.Л., Кармалькова, И.С. Caries. Diagnosis and treatment of caries on the approximal surfaces of posterior teeth / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,7 Мб) – Мн.: БГМУ, 2014.
12. Колб, Е.Л., Кармалькова, И.С. Diagnosis and treatment of dental neck caries / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,9 Мб) – Мн.: БГМУ, 2014.
13. Колб, Е.Л., Кармалькова, И.С. Possible mistakes and complications in the diagnosis and treatment of dental caries / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (4,5 Мб) – Мн.: БГМУ, 2014.
14. Колб, Е.Л., Кармалькова, И.С. Prevention of dental caries in adults / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,5 Мб) – Мн.: БГМУ, 2014.
15. Колб, Е.Л., Кармалькова, И.С. Prognostication methods of dental caries / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (2,5 Мб) – Мн.: БГМУ, 2014.
16. Колб, Е.Л., Кармалькова, И.С. Diseases of hard tissues arising before the eruption (developmental disorders): mottled teeth, hypoplasia / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (26,3 Мб) – Мн.: БГМУ, 2014.
17. Колб, Е.Л., Кармалькова, И.С. Diseases of hard tissues arising after the eruption / Е.Л.Колб, И.С. Кармалькова // [Электронный ресурс]. (15,5 Мб) – Мн.: БГМУ, 2014.
18. Кармалькова, И.С., Колб, Е.Л. Minimally invasive methods of operative treatment of caries / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (6,1 Мб) – Мн.: БГМУ, 2015.
19. Кармалькова, И.С., Колб, Е.Л. Materials for dental pulp insulation /

И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (7,53 Мб) – Мн.: БГМУ, 2015.

20. Кармалькова, И.С., Колб, Е.Л. Features of the amalgam clinical application in teeth restoration / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (4,2 Мб) – Мн.: БГМУ, 2015.

21. Кармалькова, И.С., Колб, Е.Л. Features of the composite materials clinical application in teeth restoration / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (15,8 Мб) – Мн.: БГМУ, 2015.

22. Кармалькова, И.С., Колб, Е.Л. Methods of adhesive teeth preparation for restoration / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (2,03Мб) – Мн.: БГМУ, 2015.

23. Кармалькова, И.С., Колб, Е.Л. Acute pulpitis. Clinical picture, diagnostic techniques / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (6,6Мб) – Мн.: БГМУ, 2015.

24. Кармалькова, И.С., Колб, Е.Л. Chronic pulpitis. Clinical picture, diagnostic techniques / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (1,96Мб) – Мн.: БГМУ, 2015.

25. Кармалькова, И.С., Колб, Е.Л. Treatment of the pulpitis under local anesthesia / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (2,7Мб) – Мн.: БГМУ, 2015.

26. Кармалькова, И.С., Колб, Е.Л. Treatment of the pulpitis under local anesthesia / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (2,7Мб) – Мн.: БГМУ, 2015.

27. Кармалькова, И.С., Колб, Е.Л. Treatment of pulpitis using devitalizing means / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (1,0Мб) – Мн.: БГМУ, 2015.

28. Кармалькова, И.С., Колб, Е.Л. Acute apical periodontitis. Clinical picture, diagnostic techniques. Emergency treatment / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (2,3Мб) – Мн.: БГМУ, 2015.

29. Кармалькова, И.С., Колб, Е.Л. Chronic apical periodontitis. Clinical picture, diagnostic and treatment methods / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (2,3Мб) – Мн.: БГМУ, 2015.

30. Кармалькова, И.С., Колб, Е.Л. Mechanical treatment of root canals. Rules for dealing with endodontic instruments in the clinic / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (3,1Мб) – Мн.: БГМУ, 2015.

31. Кармалькова, И.С., Колб, Е.Л. Root canal preparation techniques. Determining the length of root canals in the clinic / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (3,7Мб) – Мн.: БГМУ, 2015.

32. Кармалькова, И.С., Колб, Е.Л. Irrigation of root canal system. Means of intracanal therapy in the clinic / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (2,3Мб) – Мн.: БГМУ, 2015.

33. Кармалькова, И.С., Колб, Е.Л. Methods of root canal obturation. Means of root canals filling / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (2,5Мб) – Мн.: БГМУ, 2015.

34. Кармалькова, И.С., Колб, Е.Л. Endodontic treatment quality assessment / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (1,5Мб) – Мн.: БГМУ, 2015.
35. Кармалькова, И.С., Колб, Е.Л. Mistakes and complications in pulpitis and apical periodontitis diagnosis and treatment, preventive methods / И.С. Кармалькова, Е.Л.Колб // [Электронный ресурс]. (3,5Мб) – Мн.: БГМУ, 2015.
36. Teaching presentations on methods and agents of oral hygiene.

### **Materials and equipment** **5<sup>th</sup>–6<sup>th</sup> semester**

1. Motivation models and oral hygiene agents.
2. Motivation training aids for patients.
3. "Rubber dam» system.
4. Types of restorative materials (chemically-cured and light-cured composites, glass ionomer cements, compomers).
5. Types of adhesive systems.
6. Set of instruments for working with amalgam Amalgamator.
7. Types of systems for finishing restorations.
8. Laser fluorescence apparatus «DiagnoDent».
9. Interactive computer program «Karyogram».
10. Training aids for the method of dental caries clinical prognostication.
11. Sets of endodontic instruments.
12. Types of drugs for root canal therapy.
13. Types of sealer groups and gutta-percha points.
14. Apexlocators.
15. Dental curing light.
16. Ultrasonic devices to remove dental plaque.
17. Sets of instruments for professional cleaning
18. Types of polishing pastes and instruments for professional cleaning.
19. Set of radiographs.
20. Medical records.

### **List of diagnostic tools**

The evaluation of educational achievements of students is performed with the help of assessment tools and technologies fund of the higher educational institution. The students academic achievements assessment tools fund includes:

1. The oral form:
  - 1.1. interview;
  - 1.2. colloquiums;

- 1.3. reports at conferences;
- 1.4. oral tests;
- 1.5. oral examinations.
  
2. Written form:
  - 2.1. tests;
  - 2.2. control works;
  - 2.3. essays;
  - 2.4. reports on research work;
  - 2.5. publishing of articles, reports;
  - 2.6. writing credits;
  - 2.7. written examinations;
  - 2.8. standardized tests;
  - 2.9. assessment based on the module-rating system;
  - 2.10. medical history.
  
3. Oral-written form:
  - 3.1. reports home practical exercises with their oral defense;
  - 3.2. credits;
  - 3.3. examinations;
  - 3.4. assessment based on the module-rating system.
  
4. Technical form:
  - 4.1. electronic tests;
  - 4.2. electronic presentation.

### LIST OF LECTURES 5<sup>th</sup> semester

1. Diagnostics in therapeutic dentistry.
2. Treatment planning in therapeutic dentistry.
3. Caries. The mechanism of development, epidemiology, classification.
4. Enamel caries. Clinical picture, diagnostic techniques, treatment.
5. Dentin caries. Clinical features, diagnosis, differential diagnosis treatment.
6. Possible mistakes and complications in the diagnosis and treatment of dental caries.
7. Minimally invasive methods of operative treatment of caries.
8. Prevention of dental caries in adults.
9. Prognostication methods of dental caries.
10. Diseases of hard tissues arising before the eruption (developmental disorders): mottled teeth, hypoplasia.
11. Diseases of hard tissues arising after the eruption.

**6<sup>th</sup> semester**

1. Pulpitis. The mechanism of development, classification.
2. Acute pulpitis. Clinical picture, diagnostic techniques.
3. Chronic pulpitis. Clinical picture, diagnostic techniques.
4. Methods of the pulpitis treatment.
5. Apical periodontitis. The development mechanism, classification.
6. Acute apical periodontitis. Clinical picture, diagnostic techniques.  
Emergency treatment.
7. Chronic apical periodontitis. Clinical picture, diagnostic and treatment methods.
8. Mechanical treatment of root canals. Stages of endodontic treatment.
9. Irrigation of root canal system. Means of intracanal therapy in the clinic.
10. Methods of the root canals system obturation. Means for root canals filling.

**LIST OF PRACTICAL CLASSES****5<sup>th</sup> semester**

1. Deontology in therapeutic dentistry. Dental office. Sterilization of dental instruments. Basic rules of ergonomics in the dentist's work.
2. Diagnostic methods in therapeutic dentistry.
3. Dental patient's card. Accounting and reporting dental records. Rules of filling in.
4. Individual and professional oral hygiene. Indication methods of dental plaque. Hygienic indices.
5. Clinical manifestations of gingivitis. Clinical research methods characterizing the destructive processes in periodontal tissues.
6. Caries. The mechanism of development, epidemiology, classification.
7. Enamel caries. Clinical picture, diagnostic techniques, treatment.
8. Dentin caries. Clinical features, diagnosis, differential diagnosis.
9. Dentin caries. Methods of treatment, pulp caps.
10. Diagnosis and treatment of occlusal surfaces caries of posterior teeth.
11. Diagnosis and treatment of caries on the approximal surfaces of posterior teeth.
12. Diagnosis and treatment of dental neck caries.
13. Possible mistakes and complications in the diagnosis and treatment of dental caries.
14. Prevention of dental caries in adults.
15. Prognostication methods of dental caries.
16. Diseases of hard tissues arising before the eruption (developmental disorders): mottled teeth, hypoplasia.
17. Diseases of hard tissues arising after the eruption.



**6<sup>th</sup> semester**

1. Minimally invasive methods of operative treatment of caries.
  2. Materials for dental pulp insulation.
  3. Features of the amalgam clinical application in teeth restoration.
  4. Features of the composite materials clinical application in teeth restoration.
  5. Methods of adhesive teeth preparation for restoration.
  6. Acute pulpitis. Clinical picture, diagnostic techniques.
  7. Chronic pulpitis. Clinical picture, diagnostic techniques.
  8. Treatment of the pulpitis under local anesthesia.
  9. Treatment of pulpitis using devitalizing means.
  10. Acute apical periodontitis. Clinical picture, diagnostic techniques.
- Emergency treatment.
11. Chronic apical periodontitis. Clinical picture, diagnostic and treatment methods.
  12. Mechanical treatment of root canals. Rules for dealing with endodontic instruments in the clinic.
  13. Root canal preparation techniques. Determining the length of root canals in the clinic.
  14. Irrigation of root canal system. Means of intracanal therapy in the clinic.
  15. Methods of root canal obturation. Means of root canals filling.
  16. Endodontic treatment quality assessment.
  17. Mistakes and complications in pulpitis and apical periodontitis diagnosis and treatment, preventive methods.

### APPROVAL PROTOCOL OF CURRICULUM

Adjacent discipline	Department	Changes of curriculum content	Decision taken by the department (date, number of report )
1.General Dentistry	General Dentistry Department	There are no changes and additions	Approved at the meeting on the 1-st therapeutic dentistry Department 13.05.2015 (report # 18)
2.Oral and Maxillofacial Surgery	Oral and Maxillofacial Surgery Department	There are no changes and additions	Approved at the meeting on the 1-st therapeutic dentistry Department 13.05.2015 (report # 18)
3.Pediatric Dentistry	Pediatric Dentistry Department	There are no changes and additions	Approved at the meeting on the 1-st therapeutic dentistry Department 13.05.2015 (report # 18)

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E.L. Kolb

Curriculum content, design and accompanying documents correspond to the established requirements.

Dean of Dental Department  
Associate professor

S.N. Parchamovitch

«\_\_\_» \_\_\_\_\_ 2015

Methodologist-expert  
Educational establishment  
«Belarusian State Medical University»



S.A. Kharytonova

«\_\_\_» \_\_\_\_\_ 2015

Head of Foreign languages Department  
Associate professor

M.N. Petrova

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