

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

**Контрольный
экземпляр**

APPROVED

by Rector of the Educational
Institution «Belarusian State
Medical University»



S.P. Rubnikovich

01.12.2025

Reg. # UD-0911-03-32/2526/edu.

CLINICAL PHARMACOLOGY

Curriculum of the educational institution
in the academic discipline for the specialty

1-79 01 07 «Dentistry»

Curriculum is based on the educational program «Clinical Pharmacology», approved 01.12.2025, registration № УД-0911-03-32/2526/уч; on the educational plan in the specialty 1-79 01 07 «Dentistry», approved 16.04.2024, registration # 7-07-0911-03/2526/mf.

COMPILERS:

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RECOMMENDED FOR APPROVAL:

by the Department of Clinical Pharmacology of the Educational Institution «Belarusian State Medical University»
(protocol # 2 of 30.09.2025);

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

EXPLANATORY NOTE

«Clinical Pharmacology» is the academic discipline of the module «General Clinical Therapy # 2», which contains systematized scientific knowledge on the use of drugs for the treatment and prevention of human dental diseases, taking into account the individual characteristics of the human body, the clinical course and prognosis of diseases, as well as the clinical and pharmacological characteristics of the drugs used.

The aim of the academic discipline «Clinical Pharmacology» is the formation of basic professional competencies for improve the efficacy and safety of clinical drug use.

The objectives of the academic discipline «Clinical Pharmacology» are to form students' scientific knowledge about the clinical pharmacodynamics and pharmacokinetics of drugs, drug interactions and adverse reactions, principles of drug selection for pharmacotherapy of diseases encountered in the professional practice of dentists, skills and abilities necessary for:

selecting drugs, their dosage regimens and methods for monitoring the efficacy and safety of individualized pharmacotherapy in patients;

providing medical care in cases of adverse reactions to drugs used in the treatment and medical prevention of dental diseases.

Relations to other academic disciplines

The knowledge, skills and abilities acquired during the study of the academic discipline «Clinical Pharmacology» are necessary for successful mastering of the following academic disciplines: «Endodontics», «Maxillofacial Surgery and Outpatient Maxillofacial Surgery», «Therapeutic Pediatric Dentistry», module «Periodontology».

Studying the academic discipline «Clinical Pharmacology» should ensure the formation of students' basic professional competencies: use knowledge about the pharmacological properties of medicines, to possess the principles of choosing rational pharmacotherapy for dental diseases and for preventive purposes.

As a result of studying the academic discipline «Clinical Pharmacology» the student should

know:

norms and rules of conduct for a dentist when receiving patients;

general principles of clinical pharmacokinetics and pharmacodynamics of drugs in the human body;

principles of rational and safe pharmacotherapy for dental diseases;

clinical and pharmacological characteristics of essential medications used in dentistry;

rules for prescribing dosage forms of medications for the pharmacotherapy of dental diseases;

clinical protocols establishing requirements for the scope of medical care provided to patients with dental diseases;

procedure for reporting adverse drug reactions;

be able to:

conduct communicative interaction with the patient;

collect a pharmacological and allergological history and select medications for the treatment of patients with dental diseases;

select effective and safe medications for the treatment and prevention of dental diseases;

inform the patient about the action of prescribed medications, the instructions for administration and possible adverse reactions during the treatment and prevention of dental diseases;

write a prescription for medications for the treatment and prevention of dental diseases;

complete the «Notification of adverse reaction to a drug» form;

select a medication when providing emergency medical care to patients with drug-induced anaphylactic shock;

master:

skills in selecting medications for the treatment and prevention of dental diseases;

skills in writing prescriptions for medications in various dosage forms for the treatment and prevention of dental diseases;

skills in providing emergency medical care to patients with drug-induced anaphylactic shock.

Total number of hours for the study of the discipline is 90 academic hours, of which 33 classroom hours and 57 hours of student independent work. Classroom hours according to the types of studies: lectures – 9 hours, practical classes – 24 hours.

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

Form of higher education – full-time.

ALLOCATION OF ACADEMIC TIME ACCORDING TO SEMESTERS OF STUDY

Code, name of the specialty	semester	Number of academic hours						Form of intermediate assessment
		total	in-class	including			out-of-class self-studies	
				lectures	supervised student independent work	practical classes		
1-79 01 07 «Dentistry»	10	90	33	9	-	24	57	credit

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures	practical
1. General issues of clinical pharmacology	6	-
1.1. Introduction to clinical pharmacology. Circulation of medicines in the Republic of Belarus	1,5	-
1.2. Clinical trials of drugs. Fundamentals of evidence-based medicine	1,5	-
1.3. Clinical pharmacokinetics, pharmacodynamics and pharmacogenetics. Physiological and age-related aspects of clinical pharmacology	1,5	-
1.4. Drug interactions. Basic principles of rational combination pharmacotherapy. Adverse drug reactions	1,5	-
2. Specific issues in the clinical pharmacology of medicines	3	24
2.1. Clinical pharmacology of analgesics and local anesthetics. Pharmacotherapy of acute and chronic pain	1,5	6
2.2. Clinical pharmacology of antibacterial drugs	1,5	4
2.3. Clinical pharmacology of antiviral, antifungal and antiseptic drugs	-	2
2.4. Clinical pharmacology of antiallergic drugs. Drug-induced anaphylactic shock. Drug-induced lesions of the oral mucosa. Phytotherapy in dentistry	-	6
2.5. Clinical pharmacology of drugs used to correct local and systemic hemostasis. Clinical pharmacology of drugs affecting phosphorus-calcium metabolism	-	6
Total hours	9	24

CONTENT OF THE EDUCATIONAL DISCIPLINE

1. General issues of clinical pharmacology

1.1. Introduction to clinical pharmacology. Circulation of medicines in the Republic of Belarus

Goals and objectives of the academic discipline «Clinical Pharmacology», the main stages of clinical pharmacology's development and its relationship with other academic disciplines. Clinical pharmacology as the basis for rational pharmacotherapy.

Regulatory and legal framework for the circulation of medicines in the Republic of Belarus.

Restricted lists of medicines. The concept of the formulary system. Documents regulating rational pharmacotherapy. The concept of «off-label» use of medicines.

1.2. Clinical trials of drugs. Fundamentals of evidence-based medicine

Principles of new drug development.

Clinical trials of drugs. Types and phases of clinical trials. Purpose, objectives and methods of clinical trials of drugs. Medical, methodological and ethical aspects of clinical trials of drugs.

Nomenclature and classification of drugs. Original and generic drugs. Bioequivalence studies of generic drugs.

Fundamentals of evidence-based medicine and rational pharmacotherapy. Classes of recommendations and levels of evidence. Scientific and reference information on the efficacy and safety of drugs.

1.3. Clinical pharmacokinetics, pharmacodynamics, pharmacogenetics. Physiological and age-related aspects of clinical pharmacology

Clinical pharmacokinetics. Routes of drug administration and their characteristics. Distribution of drugs in the human body. Drug metabolism. Elimination of drugs from the human body. Key pharmacokinetic parameters. Bioavailability as the main integrative indicator of pharmacokinetics. Factors influencing drug pharmacokinetics. Pharmacokinetic characteristics of drugs during long-term use.

Clinical pharmacodynamics and assessment of its main parameters. Types of pharmacological action of drugs. Mechanisms of drug action. Dose-response relationship. The relationship between pharmacokinetics and pharmacodynamics.

Clinical pharmacogenetics. The influence of genetic factors on the human body's tolerance of various drugs and the likelihood of adverse reactions. The role of clinical pharmacogenetics in personalized therapy.

Collection of a pharmacological and allergological history. Selection of a drug dosage regimen based on liver and kidney function.

Dosage principles and regimens for prescribing medications to children, elderly patients and women during pregnancy and breastfeeding, based on the specific clinical pharmacokinetics and pharmacodynamics of medications.

1.4. Drug interactions. Basic principles of rational combination pharmacotherapy. Adverse drug reactions

Concomitant use of medications as a fundamental principle of modern pharmacotherapy. Drug interactions and their clinical characteristics. Basic principles for selecting a rational combination of medications. Consideration of drug interactions during treatment.

Adverse drug reactions. Classification of adverse reactions. Local and systemic manifestations of adverse drug reactions, basic principles of prognosis and medical prevention. Principles of informing patients about possible manifestations of adverse drug reactions. Medical prevention of adverse drug reactions. Identification and recording of adverse drug reactions. Procedure for reporting identified adverse drug reactions.

2. Specific issues in the clinical pharmacology of medicines

2.1. Clinical pharmacology of analgesics and local anesthetics. Pharmacotherapy of acute and chronic pain. Pharmacotherapy of acute and chronic pain

Classification of nonsteroidal anti-inflammatory drugs by chemical structure, anti-inflammatory activity and dependence on cyclooxygenase selectivity.

Pharmacokinetics and main pharmacological effects of nonsteroidal anti-inflammatory drugs.

Clinical and pharmacological characteristics of individual nonsteroidal anti-inflammatory drugs with pronounced anti-inflammatory activity (acetylsalicylic acid, etodolac, piroxicam, meloxicam, diclofenac, aceclofenac, ibuprofen, naproxen, ketoprofen) and moderate anti-inflammatory activity (acetaminophen, metamizole, ketorolac, nimesulide). Adverse reactions to nonsteroidal anti-inflammatory drugs (gastrotoxicity, nephrotoxicity, cardiotoxicity, hematotoxicity, hepatotoxicity, ototoxicity), risk factors and medical prevention. Drug interactions with other medications (antihypertensives, antiplatelet agents and anticoagulants, oral hypoglycemic agents, glucocorticoids). Rules for prescribing nonsteroidal anti-inflammatory drugs used in dentistry.

Opioid analgesics and their antagonists. Non-opioid centrally acting drugs with analgesic activity. Analgesics with mixed mechanisms of action.

Clinical pharmacology of local anesthetics. Clinical features of local anesthetic toxicity. Dosing of local anesthetics. Comparative characteristics of local anesthetics used in dentistry. Components of modern local anesthetic drugs for pain relief in dentistry. Clinical pharmacology of drugs for adjuvant pain therapy (muscle relaxants, antipsychotics, tranquilizers, sedatives, hypnotics, anticonvulsants, antidepressants).

Principal mechanisms of pain. Fundamental approaches to analgesic therapy for acute and chronic pain syndromes according to clinical guidelines. Selection of drugs for step therapy of chronic pain syndromes.

Collection of a pharmacological and allergological history for pain relief in dental care for patients. Selection of a drug dosage regimen considering drug interactions for pain relief. Informing patients about the action of nonsteroidal anti-inflammatory drugs, instructions for administration and possible adverse reactions. Prescribing nonsteroidal anti-inflammatory drugs.

2.2. Clinical pharmacology of antibacterial drugs

Classification of antimicrobial drugs. Characteristics of infectious disease progression depending on the nature of the pathogen and host reactivity. Rational use of antimicrobial drugs in dentistry. Principles of combination antimicrobial therapy. Principles of monitoring the efficacy and safety of antimicrobial therapy. Antimicrobial resistance and ways to overcome it.

Clinical and pharmacological characteristics, antimicrobial spectrum, indications for use, adverse reactions and resistance of antibacterial drugs: beta-lactams, macrolides, lincosamides, aminoglycosides, tetracyclines, glycopeptides, oxazolidinones, fluorinated quinolones, nitroimidazoles, nitrofurans, polymyxins, 8-hydroxyquinolones and sulfonamide drugs. Principles of antibacterial drug pharmacotherapy for infectious and inflammatory diseases of the maxillofacial region. Prophylactic use of antibacterial drugs in dentistry (perioperative prophylaxis, prevention of infective endocarditis).

Rules for prescribing antibacterial drugs used in dentistry for the treatment of patients with infectious and inflammatory diseases of the maxillofacial region in accordance with clinical protocols.

Collection of a pharmacological and allergological history for the prescription of antibacterial drugs in providing medical care to patients with dental diseases. Selection of a dosing regimen for an antibacterial drug, taking into account drug interactions. Informing patients about the mode of action of antibacterial drugs, administration instructions and possible adverse reactions. Prescribing a doctor for antibacterial drugs.

2.3. Clinical pharmacology of antiviral, antifungal and antiseptic drugs

Antiviral drugs. Clinical pharmacology of anti-influenza, anti-herpetic drugs, drugs for the prevention and treatment of viral hepatitis and COVID-19 infection. Specific features of use in dentistry, dosage, adverse reactions and resistance of antiviral drugs. Rules for prescribing antiviral drugs for the treatment of patients with infectious and inflammatory diseases in accordance with clinical guidelines.

Antifungal drugs: classification of antifungal drugs, mechanism of action, principles of rational use, adverse reactions, spectrum of action and resistance. Principles of pharmacotherapy with antifungal drugs for infectious diseases of the maxillofacial region caused by parasitic fungi.

Antiseptics: clinical and pharmacological characteristics, specific features of use in dentistry to ensure epidemiological safety.

Collecting a pharmacological and allergological history for the prescription of antiherpetic, antifungal and antiseptic medications when providing medical care to patients with dental diseases. Selecting a dosage regimen for antiherpetic, antifungal and antiseptic medications, taking into account drug interactions. Informing patients about the action of antiherpetic, antifungal and antiseptic medications, administration instructions and possible adverse reactions. Prescribing a physician for antiherpetic and antifungal medications.

2.4. Clinical pharmacology of antiallergic drugs. Drug-induced anaphylactic shock. Drug-induced lesions of the oral mucosa. Phytotherapy in dentistry

Antiallergic drugs (antihistamines, mast cell stabilizers, antileukotriene drugs, monoclonal antibodies, glucocorticoids): classification, pharmacokinetics, mechanism of action, main therapeutic effects, modes and routes of administration, adverse reactions, drug interactions. Rules for prescribing antiallergic drugs.

Allergic reactions to drugs. Drug-induced anaphylactic shock: clinical manifestations, diagnosis, emergency medical care, medical prevention.

Algorithm for selecting drugs when providing emergency medical care to patients with drug-induced anaphylactic shock in accordance with the clinical protocol.

Drug-induced oral lesions: changes in the quantity and quality of saliva, damage to the salivary glands, soft and hard tissues; taste disturbances, halitosis, neuropathy, impaired movement, infection.

Phytotherapy in dentistry. Use of herbal medicines and possible adverse reactions.

Collection of a pharmacological and allergological history for antithrombotic therapy when providing medical care to patients with dental diseases. Selection of an antiallergic drug dosage regimen taking into account drug interactions. Informing the

patient about the action of antiallergic drugs, administration instructions and possible adverse reactions.

Completion of the «Notification of an adverse reaction to a drug» form.

2.5. Clinical pharmacology of drugs used to correct local and systemic hemostasis. Clinical pharmacology of drugs affecting phosphorus-calcium metabolism

The concept of the hemostatic system. Classification of medicinal products affecting hemostasis. Medicinal products that increase blood clotting (proplatelet agents, procoagulants, profibrinolytics): mechanism of action, indications for use and adverse reactions. Hemostatic medicinal products for topical use. Adverse reactions to hemostatic medicinal products, their treatment and prevention. Requirements for hemostatic medicinal products in dentistry.

Clinical and pharmacological characteristics of antiplatelet agents: pharmacokinetics, dosage, indications for use and adverse reactions. Clinical and pharmacological characteristics of direct and indirect anticoagulants, direct thrombin inhibitors, factor Xa inhibitors and thrombolytic medicinal products. Methods for monitoring the efficacy and safety of drugs used to correct hemostasis. Antidotes to anticoagulants.

Drugs affecting calcium-phosphorus metabolism: calcium, phosphorus, fluoride, bisphosphonates and vitamin D supplements. Mechanism of action, main therapeutic effects and adverse reactions. Hormonal regulation of calcium-phosphorus metabolism (parathyroid hormone, calcitonin) and indications for use in dentistry.

Collecting a pharmacological and allergological history during antithrombotic therapy for patients with dental diseases. Selecting an antithrombotic drug dosage regimen considering drug interactions. Informing patients about the action of antithrombotic drugs, administration instructions and possible adverse reactions. Prescribing vitamin D supplements.

EDUCATIONAL DISCIPLINE «CLINICAL PHARMACOLOGY» CURRICULAR CHART

Section, topic #	Section (topic) name	Number of class hours		Literature	Practical skills	Form of control	
		lectures	practical			of practical skills	of current / intermediate assessment
	10 semester						
	Lectures	9	-	-			
1.1.	Introduction to clinical pharmacology. Circulation of medicines in the Republic of Belarus	1,5	-	1			
1.2.	Clinical trials of drugs. Fundamentals of evidence-based medicine	1,5	-	1, 3			
1.3.	Clinical pharmacokinetics, pharmacodynamics and pharmacogenetics. Physiological and age-related aspects of clinical pharmacology	1,5	-	1, 2			
1.4.	Drug interactions. Fundamental principles of rational combination pharmacotherapy. Adverse drug reactions	1,5	-	1			
2.1.	Pharmacotherapy of acute and chronic pain	1,5	-	1, 6			
2.2.	Principles of antibacterial therapy	1,5	-	1, 4, 5			
	Practical lessons	-	24	-			
2.1.	Clinical pharmacology of analgesic drugs and local anesthetics. Pharmacotherapy of acute and chronic pain	-	6	1, 5	1. Collecting a pharmacological and allergic history for pain management. 2. Choosing a dosage regimen for pain management, taking into account drug interactions.	Performing practical skills at the patient's bedside/at an outpatient appointment.	Surveys*, essays, electronic tests

					3. Informing patients about the mode of action, administration instructions and possible adverse reactions to nonsteroidal anti-inflammatory drugs. 4. Prescribing nonsteroidal anti-inflammatory drugs	Solving situational problems. Completing a doctor's prescription form	
2.2. 2.3.	Clinical pharmacology of antibacterial drugs. Clinical pharmacology of antiviral, antifungal and antiseptic drugs	-	6	1, 4, 5	1. Collecting a pharmacological and allergic history for: prescribing antibacterial drugs; prescribing antiherpetic, antifungal and antiseptic drugs. 2. Selecting a drug dosage regimen taking into account drug interactions for: prescribing antibacterial drugs; prescribing antiherpetic, antifungal and antiseptic drugs. 3. Informing patients about the mode of action, administration instructions and possible adverse reactions to: antibacterial drugs; antiherpetic, antifungal and antiseptic drugs. 4. Prescribing a doctor's prescription for antibacterial, antiherpetic and antifungal drugs. 5. Choosing an antiseptic for hygienic and/or surgical hand sanitization	Practical skills training at the patient's bedside/ during an outpatient appointment. Solving situational problems. Practical skills training at the patient's bedside/ during an outpatient appointment. Completing a doctor's prescription form. Solving situational problems	Surveys, tests*, essays, electronic tests

2.4.	Clinical pharmacology of antiallergic drugs. Drug-induced anaphylactic shock. Drug-induced lesions of the oral mucosa. Phytotherapy in dentistry	-	6	1, 5	1. Collecting a pharmacological and allergic history for prescribing antiallergic drugs. 2. Selecting a dosage regimen for antiallergic drugs, taking into account drug interactions. 3. Informing patients about the mode of action, administration instructions and possible adverse reactions to antiallergic drugs. 4. Selecting drugs when providing emergency medical care to patients with drug-induced anaphylactic shock. 5. Completing an adverse drug reaction report form	Performing practical skills at the patient's bedside/during an outpatient visit. Situational problem solving. Completing the «Adverse drug reaction notification» form*	Survey, essays, electronic tests
2.5.	Clinical pharmacology of drugs used to correct local and systemic hemostasis. Clinical pharmacology of drugs affecting phosphorus-calcium metabolism	-	6	1, 5	1. Collecting a pharmacological and allergic history for antithrombotic management. 2. Choosing a dosage regimen based on drug interactions for prescribing antithrombotic drugs. 3. Informing patients about the mode of action, administration instructions and possible adverse reactions to antithrombotic drugs. 4. Prescribing a doctor's prescription for vitamin D supplements	Performing the skill at the patient's bedside. Solving situational problems. Completing a doctor's prescription form*	Surveys, essays, electronic tests. Credit
Total hours		9	24				

*This is a mandatory form of current certification.

INFORMATION AND INSTRUCTIONAL UNIT

LITERATURE

Basic (relevant):

1. Dowd, F. J. Pharmacology and therapeutics for dentistry / F. J. Dowd. – 7th ed. – Missouri Elsevier, 2017. – 666 p.

Additional:

2. Katzung, B. G. Basic and Clinical Pharmacology / B. G. Katzung, A. J. Trevor. – 13th ed. – McGrawHill Lange, 2014. – 1229 p.

3. Whittlesea, C. Clinical Pharmacy and Therapeutics / C. Whittlesea, K. Hodson. – 6th ed. – Elsevier, 2019. – 1112 p.

4. Brunton, L. L. Goodman & Gilman's The Pharmacological Basis of Therapeutics / L. L. Brunton, R. Hilal-Dandan, B. C. Knollmann. – 13ed. – McGraw-Hill Education. – 2018. – 1423 p.

Electronic courseware for the educational discipline «Clinical Pharmacology»

5. <https://etest.bsmu.by/mod/page/view.php?id=219101>.

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

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

- preparing for lectures, practical classes;
- preparing for credit in the academic discipline;
- studying the topics (issues) designed for independent work;
- solving case studies;
- preparing thematic essays;
- making notes from academic literature.

LIST OF AVAILABLE DIAGNOSTIC TOOLS

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

- survey;
- essays;
- electronic tests.

LIST OF AVAILABLE TEACHING METHODS

Traditional method;

active (interactive) methods:

- Problem-Based Learning (PBL);
- Case-Based Learning (CBL).

LIST OF PRACTICAL SKILLS

Name of practical skills	Form of practical skills control
1. Collecting a pharmacological and allergological history for: pain management; prescribing antibacterial medications; prescribing antiherpetic, antifungal and antiseptic medications; prescribing antiallergic medications; antithrombotic management	Performing practical skills at the patient's bedside/at an outpatient appointment
2. Selecting a drug dosage regimen based on drug interactions for: pain relief; prescribing antibacterial drugs; prescribing antiherpetic, antifungal and antiseptic drugs; prescribing antiallergic drugs; prescribing antithrombotic drugs	Solving situational problems
3. Prescribing medications: nonsteroidal anti-inflammatory drugs; antibacterial, antiherpetic, antifungal; vitamin D	Completing a doctor's prescription form
4. Informing patients about the nature of the drug's action, administration instructions and possible adverse reactions to: nonsteroidal anti-inflammatory drugs; antibacterial drugs; antiherpetic, antifungal and antiseptic drugs; antithrombotic drugs	Performing practical skills at the patient's bedside/during an outpatient appointment
5. Completing the adverse reaction reporting form	Completing the «Adverse reaction report form»
6. Choosing a medication for emergency care of patients with drug-induced anaphylactic shock	Solving situational problems
7. Choosing an antiseptic for hygienic/surgical hand sanitization	Solving situational problems

**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 #)
Endodontics	Endodontics	There are no offers	Protocol # 2 of 30.09.2025
Module «Periodontology»	Periodontology	There are no offers	Protocol # 2 of 30.09.2025
Maxillofacial Surgery and Outpatient Maxillofacial Surgery	Maxillofacial Surgery and Facial Plastic Surgery with a course in advanced training and retraining	There are no offers	Protocol # 2 of 30.09.2025
Pediatric Therapeutic Dentistry	Pediatric Dentistry	There are no offers	Protocol # 2 of 30.09.2025

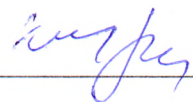
COMPILERS:

Head of the Department of Clinical Pharmacology of the Educational Institution «Belarusian State Medical University», PhD, Associate Professor;



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I.N. Kozhanova

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

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

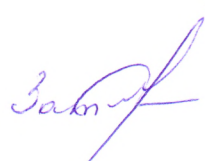
18.11.25



I.L. Kotovich

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

18.11.25



S.V. Zaturanova