

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

30.12.2025

Reg. No. UD-0912-01-02/2526 /p.

**PROGRAM
OF PRACTICAL SESSIONS
«MEDICAL»**

**for the specialty
1-79 01 08 «Pharmacy»**

2025

THE COMPILERS:

A.Y.Poctavtsev, Associate Professor the Department of Internal Medicine, Gastroenterology and Nutrition with training and advanced training courses of the educational institution «Belarusian State Medical University», Candidate of Medical Sciences, Associate Professor;

Y.Y.Pankratava, Associate Professor the Department of Internal Medicine, Gastroenterology and Nutrition with training and advanced training courses of the educational institution «Belarusian State Medical University», Candidate of Medical Sciences, Associate Professor

RECOMMENDED FOR APPROVAL:

By the Department of Internal Medicine, Gastroenterology and Nutrition with a course of advanced training and retraining of the educational institution «Belarusian State Medical University»
(protocol # 7 of 18.11.2025);

By the Council of the Medical Faculty for International Students of the educational institution «Belarusian State Medical University»
(protocol No. 4 of 30.12.2025)

EXPLANATORY NOTE

The purpose of the «Medical» educational practice is to consolidate and deepen the knowledge acquired during theoretical training, to provide students with practical skills, and to develop the necessary abilities and competencies for subsequent independent professional activity.

The practice program has been developed in accordance with the curriculum of the educational institution in the specialty «Pharmacy», approved by 29/11/2024, registration number УД-091-08-02/2425/п.

The purpose of the practical training «Medical» is to consolidate the acquired theoretical knowledge and practical skills and abilities that make up the content of professional activity of the nursing staff.

The objectives of the educational practice are:

- acquisition of patient care skills;
- acquisition of skills in performing medical procedures;
- familiarization with the requirements of the sanitary and anti-epidemic regime in healthcare organizations;
- mastering the skills of providing medical care.

Totally, of 54 academic hours are allocated for the «Medical» practical training during one week after the end of the 7th semester.

Of these, 30 hours of classroom instruction, 4 hours of guided independent work (hereinafter referred to as GIW), 20 hours of student independent work (hereinafter referred to as SIW).

REQUIREMENTS FOR PRACTICE SESSION

By the end of the «Medical» practice the student must

know :

- types and signs of bleeding, injuries, poisoning, and other conditions that pose a threat to human life and health;
- basics of asepsis and antisepsis;
- basic principles of medical care for patients with diseases of the respiratory system, circulatory system, digestive system, and for patients with self-care deficits;
- rules and methods of intramuscular and subcutaneous administration of drugs;
- rules for storing medicines;
- rules and norms of medical ethics and deontology;
- requirements of the sanitary and anti-epidemic regime in healthcare organizations;

be able to:

- provide medical assistance in case of injuries, bleeding, and other conditions that pose a threat to human life and health;
- administer medications intramuscularly and subcutaneously;
- ensure proper storage conditions for medicinal products;

possess:

- skills in applying soft bandage dressings;
- skills in performing basic cardiopulmonary resuscitation;

skills in medical care for patients with diseases of various organs and systems; techniques for intramuscular and subcutaneous administration of drugs.

The student's fulfillment of the credit standards guarantees the acquisition of practical training of the required level.

GENERAL ISSUES OF ORGANIZATION AND QUALITY CONTROL OF THE PRACTICE PROGRAM IMPLEMENTATION

Students' educational practice is carried out in the classrooms of the simulation and certification center of higher education and healthcare organizations (hereinafter referred to as the practice base).

Educational practice is combined with the educational process.

General management and organization of students' internship is assigned to the internship supervisor from institutions education «Belarusian State Medical University» (hereinafter referred to as the university).

General and direct supervision of students' internships is carried out by the internship supervisor from the department of Internal Medicine, Gastroenterology and Nutrition with training and advanced training courses.

The Faculty of Pharmacy provides scientific and methodological guidance for the practice of university students.

During their internship, students undergo occupational safety training as required by law, comply with occupational safety legislation, the internship facility's internal work regulations, the rules and standards of medical ethics and deontology, and the requirements for safe work performance in the workplace.

In accordance with the Regulations on the practice of students (cadets) after completing the course of practical training the student passes a differentiated credit to the head of the practice from the University department. A student is allowed to take a differentiated credit in the educational practice if:

all the requirements for completing the practice are met;

a student has a report on the implementation of the practice program;

The differentiated credit in the educational practice includes checking the report on completing the practice program.

The average mark for all practice days is taken into account when giving a general mark/grade.

A student who has not completed the internship program and/or received an unsatisfactory grade in a differentiated test is, by order of the rector of the university, re-sent (no more than once) to undergo internship in time free from classes in order to complete the internship program in full.

FORMS OF CONTROL OF PRACTICE SESSION

The head of the practice from the department conducts a daily interview with students, where all questions that have arisen during the work are discussed, theoretical knowledge and the correctness of the implementation of practical skills are evaluated. The head of the practice from the department engages students in the work provided for by the practice program, monitors the correctness of the design of

the practice diary / report on the implementation of the practice program. The results of the interview and the completion of the practice program are recorded in the electronic journal of student performance.

THE CONTENT OF THE PRACTICE

1. Providing medical care and organizing patient care in case of bleeding, thermal, mechanical injuries

Asepsis and antisepsis. Personal protective equipment and its use. Hand hygiene according to EN-1500. Modern hand sanitizers. Ensuring epidemiological safety in medical care. Measures to take in the event of accidental contact with patient biological material and environmental contamination.

Bleeding: classification, main signs of blood loss, methods for stopping bleeding. Providing medical care for nosebleeds and earbleeds. Organizing medical care for patients with bleeding.

Observation and medical care of patients with various types of wounds. Dressing techniques and procedures (dressing removal, wound inspection, wound cleaning, application and fixation of a clean dressing). Drainage care. Frequency of dressing changes.

Basic types of soft bandage application. Rules and techniques for applying soft bandages to various parts of the body.

Medical care for patients with dislocations and fractures.

Nursing care for patients with thermal burns. Nursing care for patients with chemical burns. Nursing care for patients with cold injuries.

Types of patient transportation: on foot, in a wheelchair, on a gurney, on a stretcher, in arms.

2. Providing medical care and organizing patient care in life-threatening conditions

Terminal conditions. Clinical and biological death.

Understanding basic cardiopulmonary resuscitation (CPR): indications and contraindications for CPR, effectiveness criteria, errors, complications, and specific features for children of different ages. Conducting basic CPR (airway management, chest compressions, and artificial ventilation).

Vital signs of body functions (respiratory rate, pulse rate, blood pressure).

Shock, anaphylaxis, syncope, collapse, hyperglycemia, hypoglycemia, seizures, epilepsy, asthma attack, acute cerebrovascular accident: possible causes, main manifestations, provision of medical attention assistance, medical care for patients.

Topical routes of drug administration, advantages and disadvantages, dosage forms. Application of drugs to the skin.

Preparing medications for parenteral administration. Drawing medications from ampoules and vials into syringes. Storage guidelines for opened vials of medications .

Subcutaneous injection technique. Subcutaneous insulin injection. Subcutaneous insulin injection using a syringe pen .

Intramuscular injection technique. Antibiotic dilution guidelines. Intramuscular administration of emulsions and suspensions.

Preparation for parenteral administration of a drug outside the procedure room.

3. Providing medical care and organizing care for patients with diseases of the cardiovascular, respiratory, digestive, and urinary systems

Main complaints of patients with respiratory diseases. Providing medical care to patients with suffocation.

Monitoring breathing patterns, cough, and sputum production. Placing the patient in a drainage position. Nursing care for patients with respiratory diseases. Understanding pulse oximetry.

Inhalation administration of medications. Use of a personal inhaler, spacer. Use of a nebulizer.

Measuring body temperature. Types of thermometers. Thermometry rules and results. Disinfection and storage of thermometers.

Medical care for patients with fever depending on the period.

Common patient complaints with circulatory diseases. Providing medical care for acute heart attacks. Hypertensive crisis, angina, and myocardial infarction: key symptoms, providing medical care, and patient monitoring.

Monitoring pulse, blood pressure, and fluid balance in patients. Providing care for patients with circulatory diseases.

Common complaints of patients with gastrointestinal diseases. Monitoring bowel movement frequency and changes in stool pattern. Nursing care for patients with gastrointestinal diseases.

Gastric lavage: indications, contraindications, and possible complications. Gastric lavage equipment. Technique for inserting an oral tube into the stomach.

Indications, contraindications, and possible complications of rectal catheter placement and various types of enemas. Equipment for administering enemas. Rectal catheter placement technique. Techniques for administering cleansing and medicinal enemas.

The main complaints of patients with kidney and urinary tract diseases. Monitoring changes in diuresis and urine properties. Medical care for patients with kidney and urinary tract diseases.

4. Medical care during laboratory tests, diagnostic and therapeutic procedures. Principles of organizing therapeutic nutrition

Preparing patients for laboratory tests (complete blood count, blood biochemistry, blood glucose test, complete urinalysis, Zimnitsky urine analysis, Nechiporenko urine analysis, urine culture, complete stool analysis (coprocytogram), stool test for helminth eggs, and microbiological stool analysis). Guidelines for completing medical documentation for laboratory tests.

Preparation of patients for instrumental examinations (X-rays, computed tomography, magnetic resonance imaging, radioisotope examinations, ultrasound examinations of internal organs, endoscopic examinations). Monitoring and medical care after diagnostic and therapeutic procedures.

Basic principles of therapeutic nutrition. Organizing dietary nutrition. Dietary regimen. Standard diets. Types of enteral nutrition. Therapeutic nutrition for diseases of various organs and systems.

5. Nursing care for patients with self-care deficits. Skin and mucous membrane care. Palliative care.

Hygienic skin care for patients with impaired mobility and self-care. Oral and nasal care. Eye, ear, hair, and nail care. Use of a bedpan and urine collection bag. Perineal hygiene. Change of underwear and bed linen.

Skin care for pressure ulcer prevention. Basic patient positions in bed: Fowler's position, supine, prone, lateral, and Sims's positions. Methods of patient movement in bed. Biomechanical principles for patient movement in bed. Devices for creating a comfortable patient position.

Feeding patients with self-care deficits.

Medical care and monitoring of elderly and senile patients. The concept of palliative care. Medical care and monitoring of seriously ill and dying patients. Pain relief methods. Psychological support for patients and their families.

INFORMATION AND METHODOLOGICAL PART

CALENDAR AND THEMATIC PLAN

Name of the work performed	Number of hours		
	classroom	SR	USR
1. Providing medical care and organizing patient care in case of bleeding, thermal, mechanical injuries	6	4	2
2. Providing medical care and organizing patient care in life-threatening conditions	6	4	2
3. Providing medical care and organizing care for patients with diseases of the cardiovascular, respiratory, digestive, and urinary systems	6	4	-
4. Medical care during laboratory tests, diagnostic and therapeutic procedures. Principles of organizing therapeutic nutrition	6	4	-
5. Nursing care for patients with self-care deficits. Skin and mucous membrane care. Palliative care.	6	4	-
Total:	30	20	4

A LIST OF PRACTICAL SKILLS ACQUIRED DURING PRACTICE

Levels of mastery of practical skills:

1 – know theoretically, be professionally oriented, know the indications for implementation;

2 – know theoretically, evaluate, and take part in the work of medical personnel;

3 – know theoretically, do it independently.

If there are no conditions in the healthcare organization for mastering a skill

at levels 2 (3), the student must master practical skills according to level 1.

№.	Practical skills	Recommended	
		Number	The level of development
1	Hygienic hand antisepsis, putting on and removing non-sterile disposable gloves	20	3
2	Dressing an accidental wound	2	2
3	Application of a soft bandage dressing «Cap»	2	3
4	Application of a soft bandage «Bridle»	2	3
5	Application of a soft bandage dressing «Glove»	2	3
6	Application of a soft bandage «Knight's Glove»	2	3
7	Application of a soft bandage dressing «Mitten»	2	3
8	Desault bandage for clavicle injury	2	3
9	Application of a soft bandage spica bandage to the shoulder joint	2	3
10	Application of a soft binocular bandage	2	3
11	Applying a pressure bandage for venous bleeding	2	3
12	Determination of pulse characteristics on the radial artery	5	3
13	Measuring blood pressure	5	3
14	Measuring respiratory rate	5	3
15	Performing closed-chest cardiac massage on an adult	3	3
16	Performing closed heart massage on a child under 1 year of age	3	3
17	A set of medicinal preparations from an ampoule and a vial into a syringe	10	3
18	Performing a subcutaneous injection	5	3
19	Performing an intramuscular injection	5	3
20	Using a pulse oximeter	3	3
21	Use of a personal inhaler	2	3
22	Setting up a cleansing enema	2	2
23	Setting up a medicinal enema	2	2
24	Gastric lavage with a tube	2	1
25	Putting drops into the eyes	2	3
26	Instillation of nasal drops	2	3
27	Putting drops into the ears	2	3
28	Changing underwear and bed linen for a seriously ill patient	2	3

THEMES AND FORMS OF HYGIENIC EDUCATION AND UPBRINGING

During their internship, students participate in promoting hygiene knowledge and fostering healthy lifestyles among the population through training and education.

Topics and forms of hygiene training and education are agreed upon with the internship supervisor from the department of Internal Medicine, Gastroenterology and Nutrition with training and advanced training courses during the first lesson. The results of their work are presented during a differentiated assessment.

Approximate topics:

1. A healthy lifestyle is the key to general health.
2. Injury prevention (at home, during leisure, etc.).
3. Prevention of intestinal infections.
4. Therapeutic nutrition for diseases of the digestive system.
5. Youth and drugs.
6. Healthy sleep.
7. Prevention of visual impairments.
8. Flu, acute respiratory viral infections – preventive measures.
9. The role of nutrients in promoting health.
10. About the dangers of smoking.

REQUIREMENTS FOR THE CONTENT OF ACCOUNTING DOCUMENTATION

During the internship, the student, under the supervision of the organization's internship supervisor, completes the internship program. Following the internship, a written report on the completion of the internship program is compiled. In the report, the student notes the practical skills acquired, their number, and the level of mastery, as per **Appendix 1**.

The report must be signed by the student and the internship supervisor from the department of Internal Medicine, Gastroenterology and Nutrition with training and advanced training courses.

A4 paper using the MS Word application.

Reporting documentation is stored at the university in accordance with the procedure determined by legislation in the field of archival affairs and records management.

MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS

Educational institution

BELARUSIAN STATE MEDICAL UNIVERSITY

Practice base

REPORT

on the implementation of the program
of practical training in «Medical»

Student _____
 Specialty _____
 Faculty _____
 Course, study group No. _____
 Terms of the internship _____

N o.	List of practical skills	Recommended		Mastered	
		quantity	level development	quantity (total)	level development
1.	Hygienic hand antiseptis, putting on and removing non-sterile disposable gloves	20	3		
2.	Dressing an accidental wound	2	2		
3.	Application of a soft bandage dressing «Cap»	2	3		
4.	Application of a soft bandage «Bridle»	2	3		
5.	Application of a soft bandage dressing «Glove»	2	3		
6.	Application of a soft bandage «Knight's Glove»	2	3		
7.	Application of a soft bandage dressing «Mitten»	2	3		
8.	Desault bandage for clavicle injury	2	3		
9.	Application of a soft bandage spica bandage to the shoulder joint	2	3		
10.	Application of a soft binocular bandage	2	3		
11.	Applying a pressure bandage for venous bleeding	2	3		
12.	Determination of pulse characteristics on the radial artery	5	3		
13.	Measuring blood pressure	5	3		
14.	Measuring respiratory rate	5	3		
15.	Performing closed-chest cardiac massage on an adult	3	3		
16.	Performing closed heart massage on a child under 1 year of age	3	3		
17.	A set of medicinal preparations from an ampoule and a vial into a syringe	10	3		
18.	Performing a subcutaneous injection	5	3		

19.	Performing an intramuscular injection	5	3		
20.	Using a pulse oximeter	3	3		
21.	Use of a personal inhaler	2	3		
22.	Setting up a cleansing enema	2	2		
23.	Setting up a medicinal enema	2	2		
24.	Gastric lavage with a tube	2	1		
25.	Putting drops into the eyes	2	3		
26.	Instillation of nasal drops	2	3		
27.	Putting drops into the ears	2	3		
28.	Changing underwear and bed linen for a seriously ill patient	2	3		

Student _____
(signature) Full name

Supervisor
 practices from the department of Internal
 Medicine, Gastroenterology and Nutrition
 with training and advanced training courses

(signature) Full name

COMPILERS:

Associate Professor the Department of Internal Medicine, Gastroenterology and Nutrition with training and advanced training courses of the educational institution «Belarusian State Medical University», Candidate of Medical Sciences, Associate Professor

A.Y.Pochtavtsev

Associate Professor the Department of Internal Medicine, Gastroenterology and Nutrition with training and advanced training courses of the educational institution «Belarusian State Medical University», Candidate of Medical Sciences, Associate Professor

Y.Y.Pankratava

Head of the Department of Internal Medicine, Gastroenterology and Nutrition with training and advanced training courses of the educational institution «Belarusian State Medical University», Candidate of Medical Sciences, Associate Professor

A.V.Adamenko

The design of the internship program and accompanying documents meets the established requirements.

Head of the Practice of the educational institution «Belarusian State Medical University»

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N.A. Medved

Methodologist of the educational institution «Belarusian State Medical University»

_____ 20__

S.A. Yankovich