

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

Контрольный
экземпляр



APPROVED

by First Vice-Rector, Professor

I.N.Moroz

12.08. 2023

Reg. # UD-L. 09/23 24 /edu. sub.

OUTPATIENT THERAPY

Curriculum of educational institution in the educational discipline for the
specialty 1-79 01 01 «General Medicine»

Sub-Residency «General Clinical Practice»

Minsk 2023

Curriculum is based on the educational program of educational institution in the educational discipline «Outpatient Therapy» for the Sub-Residency «General Clinical Practice (for foreign citizens)», approved 11.08.2023, registration # УД-Л.09/2224/уч.суб.

COMPILERS:

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RECOMMENDED FOR APPROVAL:

by the Department of Outpatient Therapy of the Educational Institution «Belarusian State Medical University»
(protocol # 18 of 30.06.2023);

by the Scientific and Methodological Council of the Educational Institution «Belarusian State Medical University»
(protocol # 7 of 10.08.2023)

EXPLANATORY NOTE

«Outpatient therapy» is the educational discipline containing systematized scientific knowledge on providing medical care to patients with therapeutic diseases in an outpatient setting.

The purpose of teaching the academic discipline «Outpatient Therapy» for the sub-residency “General Clinical Practice (for foreign citizens)” is to develop students’ academic, social, personal and professional competencies to provide medical care to patients with the most common therapeutic diseases in an outpatient setting.

The objectives of teaching the academic discipline are to develop in student’s scientific knowledge about the etiology, pathogenesis and clinical manifestations of major diseases of internal organs, skills and abilities necessary for:

- diagnostics of therapeutic diseases on an outpatient basis;
- differential diagnosis of therapeutic diseases in outpatient settings;
- resolving issues of medical tactics (indications for hospitalization in a hospital or day care unit, referral for consultation to medical specialists, for special diagnostic methods);
- interpretation of the results of laboratory and instrumental research methods;
- treatment of therapeutic diseases on an outpatient basis, including with the involvement of medical specialists;
- conducting preventive consultations;
- medical rehabilitation of patients with therapeutic diseases;
- providing emergency medical care to patients on an outpatient basis.

Teaching and successful learning of the educational discipline «Outpatient Therapy» for the sub-residency “General Clinical Practice (for foreign citizens)” is carried out on the basis of the knowledge and skills acquired by the student in the sections of the following academic disciplines:

Internal Diseases. Methods of diagnosis of diseases of internal organs. The aetiology and pathogenesis, clinical manifestations of diseases of the respiratory system, circulatory system, digestive system, kidney and urinary tract, blood system. Diagnosis, semiotic analysis and differential diagnosis, methods and means of therapeutic treatment of internal organs diseases. Prevention of diseases of internal organs, temporary disability expertise and rehabilitation programs of patients.

Pharmacology. Principles of pharmacokinetics and pharmacodynamics of drugs. Individual strategy of pharmacotherapy. Major medications used in therapy of various pathological processes and the most common diseases. Prescription formulation. Prescribing and filling-in of receipts for medications in various forms.

Propaedeutics of Internal Diseases. Method of physical examination of a patient. Semiotics and syndromes of major lesions of organs and systems. Principles of rational nutrition in therapeutic diseases in different age groups. International Classification of Diseases (ICD).

Radiation Medicine and Ecology. Medical and biological effects of radiation and principles of reducing radiation exposure of the population. Radioecological situation in Belarus. Hygienic education, training, dispensarization, health promotion, protection of the population exposed to radiation. Ecological problems of nutrition.

Medical Psychology. Psychology of Personality. Psychological peculiarities of doctor-patient relationship, basics of mental health hygiene and prevention of mental disorders. Internal illness perception and the response of the individual to the disease. Medical deontology.

Surgical Diseases. Etiology, pathogenesis and prevention of the most common surgical diseases. Primary emergency medical care in acute surgical diseases and injuries.

Phthisiopulmonology. Examination of the patient with suspected pulmonary tuberculosis. Specific, sanitary and social prevention of tuberculosis.

Neurology and Neurosurgery. Etiology, pathogenesis, clinical features, diagnosis and treatment of diseases of the nervous system.

Otorhinolaryngology. Clinical signs, diagnosis and prevention of major diseases of the ear, nose, pharynx, larynx and sinuses.

As a result of studying the educational discipline “Outpatient Therapy” for the sub-residency “General Clinical Practice (for foreign citizens)” student should

know:

principles of diagnosis and differential diagnosis of the most common therapeutic diseases in an outpatient setting;

methods for examining a patient for the most common therapeutic diseases and syndromes and a mandatory minimum of laboratory and instrumental research methods in an outpatient setting, according to current protocols;

principles of interaction and continuity in the work of a general practitioner with doctors of other specialties;

indications for referral for consultation with medical specialists;

the procedure for referral and indications for hospitalization of patients with the most common therapeutic diseases;

principles of treating patients with the most common therapeutic diseases in an outpatient setting;

criteria for exacerbation, recovery and remission for the most common therapeutic diseases;

main directions of preventive work of a general practitioner;

methods for detecting tuberculosis and cancer of various localizations;

algorithms for providing emergency medical care in an outpatient setting, therapeutic doses and frequency of administered drugs in the following conditions: hypertensive crisis; an attack of cardiac asthma and pulmonary edema; cardiogenic shock; anginal attack and acute coronary syndrome; an attack of bronchial asthma and developing status asthmaticus; gastrointestinal bleeding; «acute» abdomen syndrome; paroxysmal rhythm disturbances (supraventricular and ventricular tachycardia, atrial fibrillation); attack of Morgagni - Edens - Stokes; renal colic; hepatic colic;

be able to:

take history, perform physical examination and detect objective signs and symptoms of diseases;

make a rationale investigation plan for a patient to establish diagnosis using necessary minimum of laboratory and diagnostic tests;

interpret acquired results of laboratory and diagnostic tests (blood, urine, sputum, gastric secretions, bile, X-ray, endoscopy, ultrasound, ECG and others);

formulate diagnosis of therapeutic disease according to current classifications;

make individual plan of treatment and rehabilitation of patient with therapeutic disease in outpatient practice;

prevent therapeutic diseases;

fill in receipts and prescribe drugs used in outpatient practice;

recognize indications for hospital referral and admission of patients with therapeutic diseases;

take throat and nose swabs for bacteriological exam;

carry out anti-epidemic and preventive actions and measures in infection outbreak location;

promote health, provide various forms of sanitation and hygiene education of the population;

provide emergency pre-hospital medical care in the following cases: hypertensive emergency (crisis), cardiac asthma attack and pulmonary edema, cardiogenic shock, angina attack and acute coronary syndrome, asthma attack and developing status asthmaticus, gastrointestinal bleeding, «acute» abdomen, paroxysmal arrhythmias (paroxysmal narrow QRS complex and wide QRS complex tachycardia, atrial fibrillation, Morgagni-Adams-Stokes attacks), renal colic, biliary «colic», angioedema (Quincke's oedema), anaphylactic shock; sudden transient loss of consciousness; undifferentiated prolonged loss of consciousness;

provide medical care in sudden cardiac death (advanced cardiac life support);

master:

communication skills with the patient and his family;

history taking and physical examination skills;

making an individual plan of investigation of patient with therapeutic disease in outpatient practice and interpretation of the results of laboratory and diagnostic tests;

formulation of therapeutic disease diagnosis according to current classifications;

making an individual treatment plan for a patient with therapeutic disease;

prescribing drugs used in outpatient practice and filling in receipts;

the skills of filling out medical documentation.

Total number of hours for the study of the discipline is 42 academic hours. Classroom hours according to the types of studies: practical classes - 28 hours; student independent work (self-study) - 14 hours.

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

The form of education is full-time.

THEMATIC PLAN

Section (topic) name	Number of class hours
	practical
1. Diseases of the respiratory tract in outpatient therapeutic practice	7
2. Diseases of cardiovascular system outpatient therapeutic practice	7
3. Diseases of digestive organs outpatient therapeutic practice	7
4. Kidney diseases in outpatient therapeutic practice	7
Total hours	28

CONTENT OF THE EDUCATIONAL MATERIAL

1. Diseases of the respiratory tract in outpatient therapeutic practice

Algorithms for diagnosing and managing patients with the most common respiratory syndromes (cough, shortness of breath, broncho-obstructive syndrome) in an outpatient setting.

Diagnosis and treatment of respiratory diseases on an outpatient basis: acute respiratory infections, acute tonsillitis, acute bronchitis, pneumonia, bronchial asthma, chronic bronchitis and chronic obstructive pulmonary disease. Prevention of acute and chronic respiratory diseases. Indications and contraindications for vaccination against influenza and pneumococcus. Algorithm for counseling patients on smoking cessation. Indications for hospitalization of patients with respiratory tract diseases, formulation of diagnoses when referring for hospitalization.

Emergency medical care at the prehospital stage during an attack of bronchial asthma and developing status asthmaticus.

Collecting complaints and medical history from patients with respiratory tract diseases, physical examination, drawing up a plan for laboratory and instrumental examination, interpreting the results of laboratory and instrumental research methods, formulating a diagnosis, drawing up a plan of treatment measures, drawing up medical documentation, issuing prescriptions for medications.

2. Diseases of cardiovascular system outpatient therapeutic practice

Algorithms for diagnosis and differential diagnosis of patients with cardialgia syndrome in an outpatient setting.

Diagnosis of arterial hypertension (AH) in an outpatient setting. Classification of hypertension, risk stratification. Tactics for managing patients with hypertension: treatment goals, general principles, medications. Emergency medical care at the prehospital stage for hypertensive crisis.

Primary and secondary prevention of cardiovascular diseases. Diagnosis of metabolic syndrome. Preventive motivational counseling for patients with overweight, obesity, and high blood pressure. Indications for pharmacological prevention of cardiovascular diseases, drugs with proven effectiveness.

Diagnosis of coronary heart disease in an outpatient setting. Risk stratification in patients with stable angina based on the results of a clinical examination, instrumental and laboratory research methods. Pharmacological and non-

pharmacological treatment of stable angina and cardiac arrhythmias (extrasystoles, atrial fibrillation and flutter, supraventricular tachycardia): goals, treatment tactics, basic medications.

Emergency medical care at the prehospital stage during an attack of angina pectoris, acute coronary syndrome; acute left ventricular failure; paroxysmal heart rhythm disturbances (supraventricular and ventricular tachycardia, atrial fibrillation); Morgagni-Edems-Stokes attack.

Chronic heart failure: classification, early diagnosis. Modern principles and methods of treatment of chronic heart failure in an outpatient setting, indications for referral to surgical and electrophysiological methods of treatment.

Collecting complaints and medical history from patients with diseases of the cardiovascular system, physical examination, drawing up a plan for laboratory and instrumental examination, interpreting the results of laboratory and instrumental research methods, formulating a diagnosis, determining the optimal tactics for managing patients (providing emergency medical care, planned or emergency hospitalization, treatment on an outpatient basis), drawing up a treatment plan, preparing medical documentation.

3. Diseases of digestive organs outpatient therapeutic practice

Abdominal pain and dyspeptic syndrome: an algorithm for diagnosing and managing patients in an outpatient setting.

Diagnosis and treatment of digestive diseases on an outpatient basis: gastroesophageal reflux disease, chronic gastritis, peptic ulcer. Diagnosis and treatment regimens for helicobacter pylory infection. Prevention of diseases of the stomach and esophagus, elimination of risk factors for cancer. Emergency medical care at the prehospital stage for gastrointestinal bleeding, «acute» abdomen syndrome.

Diagnosis and treatment of enteropathy, irritable bowel syndrome, colitis on an outpatient basis. Prevention of intestinal diseases, elimination of risk factors for cancer. Tactics for managing patients with a family history of colorectal cancer, indications for the prophylactic use of acetylsalicylic acid, etc.

Management of patients with chronic hepatitis, liver cirrhosis, chronic pancreatitis, indications for hospitalization. Emergency medical care at the prehospital stage for hepatic colic.

Collection of complaints and anamnesis from patients with diseases of the digestive system, physical examination, drawing up a plan for laboratory and instrumental examination, interpretation of the results of laboratory and instrumental research methods, formulation of a diagnosis, drawing up a plan of treatment measures, preparation of medical documentation.

4. Kidney diseases in outpatient therapeutic practice

Urinary syndrome: clinical interpretation of changes in general urine analysis, main causes and diseases, differential diagnosis. Diagnostic algorithm and treatment tactics for hematuria.

Assessment of kidney function. Methods for determining glomerular filtration rate.

Emergency medical care at the prehospital stage for renal colic and acute kidney injury.

Diagnostic algorithm and tactics for patient management with edema. Diagnosis and treatment of chronic pyelonephritis, chronic glomerulonephritis on an outpatient basis, indications for hospitalization.

Chronic kidney disease: causes, early diagnosis, classification, main clinical syndromes, stages, indications for hospitalization, outpatient treatment, indications for hemodialysis. Observation of patients on an outpatient basis after kidney transplantation.

Prevention of kidney diseases (primary and secondary).

Collection of complaints and anamnesis from patients with kidney diseases, physical examination, drawing up a plan for laboratory and instrumental examination, interpretation of the results of laboratory and instrumental research methods, formulation of a diagnosis, drawing up a plan of treatment measures, preparation of medical documentation.

**EDUCATIONAL METHODOLOGICAL CARD OF EDUCATIONAL DISCIPLINE “Outpatient Therapy” FOR THE
SUB-RESIDENCY “GENERAL CLINICAL PRACTICE (FOR FOREIGN CITIZENS)”**

Section number, topics	Name of section, theme	Number of class hours		self-studies	Equipment	Literature	Form of knowledge control
			practical				
1.	Diseases of the respiratory tract in outpatient therapeutic practice	7		3	1-3	1, 3, 4	1,2,4, 6
2.	Diseases of cardiovascular system outpatient therapeutic practice	7		4	1-3	1, 4	1-4, 6, 7
3.	Diseases of digestive organs outpatient therapeutic practice	7		4	1-3	1, 4	1-4, 6, 7
4.	Kidney diseases in outpatient therapeutic practice	7		3	1-3	1, 2, 4	1-7
	Total hours	28		14			

INFORMATIONAL AND INSTRUCTIONAL UNIT

LITERATURE

Basic:

1. Янковская Л.В. Поликлиническая терапия = Outpatient therapy: пособие для студентов учреждений высш. образования, обучающихся на англ. яз. по спец. 1-79 01 01 "Лечебное дело". – 3-е изд. – Гродно: ГрГМУ, 2019. – 180 с.

Additional:

2. Алексеева Е.С. Нефротический синдром в амбулаторной практике = Nephrotic syndrome in outpatient practice: учеб.-метод. пособие. – Минск: БГМУ, 2019. – 26 с.

3. Дрощенко, В. В. Острые респираторные инфекции в амбулаторной практике = Acute respiratory tract infections in outpatient practice. - Минск: БГМУ, 2019. - 56 с.

4. Яковлева Е.В. Оформление медицинской карты амбулаторного больного = Filling in outpatient medical card : учеб. – метод. пособие – Минск : БГМУ , 2016. – 24 с.

CHARACTERISTICS OF THE USED TRAINING METHODS

When organizing the educational process, traditional methods of teaching the academic discipline are used: practical classes, as well as elements of controlled independent work of students.

It is recommended to organize the educational process using traditional and modern educational technologies (simulation learning technologies, variable models of independent work, test and other systems for assessing the level of competencies, etc.).

Practical classes are conducted on the basis of general medical practice departments of outpatient health care organizations. During practical classes under the supervision of a teacher, students independently collect patient complaints and medical history, conduct a physical examination, draw up a plan for laboratory and instrumental examination, interpret the results of laboratory and instrumental research methods, formulate a diagnosis, draw up a treatment plan, medical rehabilitation measures, draw up medical documentation, conduct preventive actions. Practical training is provided by students solving situational problems, test tasks, developing skills in examining patients, diagnosing and differential diagnosis of diseases, conducting medical interventions using electronic-mechanical, virtual and multi-component simulators.

Independent extracurricular work consists of studying basic and additional literature, monographs and periodicals, preparing messages, abstracts, presentations and short reports on the most pressing problems of therapy, studying topics (questions) submitted for independent study, preparing for practical classes, and testing.

Students become familiar with safe working conditions, international requirements and ethical standards.

LIST OF TRAINING AIDS

1. Multimedia presentations.
2. Video films.
3. Medical records of outpatients and the results of additional examination methods (laboratory, functional, radiation, etc.).

LIST OF AVAILABLE DIAGNOSTIC TOOLS

Assessment of a student's educational achievements is carried out using the fund of assessment tools and technologies of a higher education institution. The fund for assessing student educational achievements includes:

standard tasks in various forms (oral, written, test, situational, simulation);
medical records of an inpatient (outpatient) patient and the results of additional examination methods (laboratory, functional, radiation);
other diagnostic tools.

To diagnose competencies, the following forms of knowledge control are used:

Oral form:

1. Interview.

Written form:

2. Tests.
3. Abstract.

Oral and written form:

4. Solving situational problems.
5. Test.

Technical form:

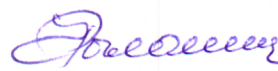
6. Electronic tests.
7. Preparing a presentation.

LIST OF PRACTICAL SKILLS

1. Questioning and physical examination of the patient.
2. Drawing up a plan for examining the patient in an outpatient setting.
3. Interpretation of the results of laboratory and instrumental diagnostic methods.
4. Formulating a clinical diagnosis, determining indications for hospitalization.
5. Drawing up an individual treatment and prevention plan.
6. Drawing up an individual medical rehabilitation program.
7. Issuing prescriptions for medications used in outpatient settings.
8. Conducting individual preventive consultation.


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

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

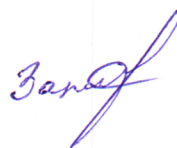
09.08 2023



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