

AMENDMENTS AND CHANGES TO THE CURRICULUM IN THE EDUCATIONAL DISCIPLINE

«Propaedeutics of Internal Diseases»
for the specialty 1-79 01 01 «General Medicine»
for 2024/2025 academic year

Amendments and changes	Basis/Reason
1. Changes have been introduced into the Explanatory Note (appendix 1)	Educational Plan for 2024/2025 academic year
2. Changes have been introduced into the Thematic Plan (appendix 2)	Educational Plan for 2024/2025 academic year
3. Changes have been introduced into the Educational Discipline Curricular Chart (appendix 3)	Educational Plan for 2024/2025 academic year

The curriculum is revised and approved at the department meeting (Propaedeutics of Internal Diseases)
(protocol # 14 of 14.06.2024)

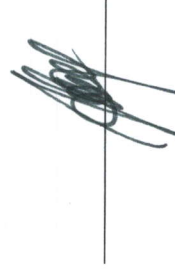
acting Head of the Department



M.V.Sholkova

APPROVED

Dean of the Medical Faculty
of the International Students
PhD, Associate Professor



O.S. Ishutin

Changes in the Explanatory Note

Total number of hours for the study of the discipline is _336 academic hours, of which 171_ classroom hours and _165_ hours of student independent work. Classroom hours according to the types of studies: lectures - __33_ hours (including ___9 hours of supervised student independent work (SSIW)), practical classes – 138 hours.

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 - 7	4	108	48	9	3	36	60	Credit
	5	120	66	9	3	54	54	Credit
	6	108	57	6	3	48	51	Exam

THEMATIC PLAN

Section (topic) name	Number of class hours	
	lectures (incl. SSIW)	practical (laboratory or seminars)
1. Patient's examination methods	12	36
1.1. Introduction to the academic discipline «Propaedeutics of Internal Diseases». A brief history of the internal medicine. Medical ethics and deontology. Basic concepts of clinical medicine	1,5	2
1.2. Clinical algorithm of patient's examination		2
1.3. Communications in medicine. Subjective method of patient's examination	1,5	2
1.4. Objective methods of patient's examination	1,5	4
1.5. Palpation. Types and rules	1,5	6
1.6. Percussion. Types and rules	1,5	6
1.7. Auscultation Types and rules	1,5	6
1.8. Laboratory tests	1,5	2
1.9. Instrumental diagnostic methods		2
1.10. Clinical basis of electrocardiography. Electrocardiogram recording. Normal electrocardiogram interpretation	1,5	4
2. General propaedeutics (semiotics)	12	54
2.1. Examination of patients with respiratory diseases	3,0	9
2.2. Examination of patients with cardiovascular diseases	1,5	9
2.3. Clinical and electrocardiographic signs of heart arrhythmias, conduction disorders, atrial and ventricular hypertrophy	1,5	9
2.4. Examination of patients with gastrointestinal diseases	1,5	6
2.5. Examination of patients with kidney and urinary tract diseases	1,5	3
2.6. Examination of patients with hematologic diseases	1,5	9
2.7. Examination of patients with diseases of the thyroid gland, pancreas (diabetes mellitus). Examination of patients with musculoskeletal system diseases	1,5	9
3. Special propaedeutics (special pathology)	9	48
3.2. Bronchial asthma. Chronic obstructive pulmonary disease	1,5	3

Section (topic) name	Number of class hours	
	lectures (incl. SSIW)	practical (laboratory or seminars)
3.3. Pneumonia. Pleurisy	-	3
3.4. Acute rheumatic fever. Infective endocarditis	1,5	3
3.5. Heart valve diseases		3
3.6. Arterial hypertension. Atherosclerosis	-	3
3.7. Ischemic heart disease. Angina pectoris. Myocardial infarction	1,5	3
3.8. Acute and chronic heart failure. Cardiac arrhythmias and conduction disorders		3
3.9. Diseases of the digestive system: gastritis, stomach ulcer and duodenal ulcer. Management of gastrointestinal bleeding	1,5	3
3.10. Liver diseases: hepatitis, liver cirrhosis. The concept of gallbladder and pancreas diseases		3
3.11. Kidney diseases: glomerulonephritis, pyelonephritis, acute kidney injury, chronic kidney disease	1,5	3
3.12. Hematologic diseases: anemia, hemoblastosis	1,5	3
3.13. Thyroid diseases, diabetes mellitus. Management of hyperglycemic and hypoglycemic comas	-	3
3.14. Diseases of the musculoskeletal system: arthritis in case of connective tissue diseases (rheumatoid arthritis), infectious arthritis, metabolic arthritis (osteoarthritis, gout)	-	3
3.15. Acute allergic diseases. Management of anaphylactic shock	-	3
Total hours	33	138

ACADEMIC DISCIPLINE CURRICULAR CHART

Section, topic #	Section (topic) name	Number of hours		Supervised student independent work	Practical skills	Form of control	
		lectures	practical			of practical skills	of current / intermediate assessment
	4 semester						
	Lectures	9		3			
1	Introduction to the academic discipline "Propaedeutics of internal diseases". Clinical algorithm of patient's examination in Internal Medicine.	1,5					
2	Communications in medicine. Subjective method of patient's examination	1,5					
3	General and local inspection.	1,5					
4	Percussion in patient's examination.	1,5					
5	Palpation in patient's examination.	1,5					
6	Auscultation in patient's examination.	1,5					
7	Laboratory and Instrumental diagnostic methods.			1,5			electronic tests
8	Clinical basis of electrocardiography. Electrocardiogram recording. Normal electrocardiogram interpretation			1,5			electronic tests
	Practical classes	-	36	-	<i>Name of the practical skills</i> Solving situational problems.	<i>Form of control*</i>	
1	Introduction to the academic discipline "Propaedeutics of internal diseases". A brief history of the Internal Medicine. Medical		2				T e s

	ethics and deontology. Basic concepts of clinical medicine								
2	Clinical algorithm of patient's examination.		2			Solving situational problems.			T e
3	Communications in medicine. Subjective method of patient's examination.		2			Solving situational problems.			T e
4	Objective methods of patient's examination. General inspection		2			Inspection of the skin and subcutaneous tissues.	Performing a practical skill with special participant		T e s
5	Objective methods of patient's examination. Local inspection.		2			Inspection and palpation of the thyroid gland.	Performing a practical skill with special participant		T e s
6	Palpation: types and rules. Palpation of the head, neck, chest. Pulse examination.		2			Chest shape estimation (inspection and palpation). Palpation of chest pain points. Assessment of the pulse on the radial, carotid arteries and dorsalis pedis arteries*. Palpation of the apical impulse.	Performing a practical skill with special participant	Tests; control surveys; evaluation using scorecard*. Evaluating using electronic-mechanical simulators and robot simulators.	
7	Superficial palpation of the abdomen. Deep palpation of abdominal organs		2			Superficial palpation of the abdomen. Palpation of the sigmoid colon. Palpation of the cecum. Palpation of the transverse colon. Palpation of the liver.	Performing a practical skill on simulation equipment or with special participant	Tests; control surveys. Evaluating using electronic-mechanical simulators and robot simulators.	
8	Palpation of lymph nodes. Palpation of the kidneys, bladder		2			Inspection and palpation of the lymph nodes of the head and neck.	Performing a practical skill with special participant		T e s

					Inspection and palpation of supra -, subclavian and axillary lymph nodes. Inspection and palpation of inguinal and popliteal lymph nodes. Palpation of kidneys in a vertical position. Palpation of the kidneys in a horizontal position.				Performing a practical skill on simulation equipment or with special participant	Tests; control surveys; evaluation using electronic-mechanical simulators and robot simulators.
9	Percussion: types and rules. Comparative and topographic percussion of the lungs			2	Comparative percussion of the lungs. Assessment the inferior lung borders.				Performing a practical skill with special participant	Tests; control surveys.
10	Percussion of the heart			2	Assessment of the relative heart dullness borders.				Performing a practical skill with special participant	Tests; control surveys.
11	Percussion of the liver and spleen			2	Assessment of the liver size according to M. G. Kurlov's method. Palpation of the spleen.				Performing a practical skill on simulation equipment or with special participant	Tests; control surveys; evaluation using electronic-mechanical simulators and robot simulators.
12	Auscultation. Lung auscultation technique. Breath sounds of a healthy person			2	Auscultation of the lungs.				Performing a practical skill on simulation equipment or with special participant	Tests; control surveys; evaluation using electronic-mechanical simulators and robot simulators.
13	The technique of heart auscultation. Heart sounds of a healthy person.			2	Auscultation of the heart.				Performing a practical skill on simulation equipment or with special participant	Tests; control surveys; evaluation using electronic-mechanical simulators and robot simulators.

									simulators and robot simulators.
14	Auscultation of vessels. Abdomen auscultation.			2		Palpation of the ureteral points, assessment of the kidney tenderness, auscultation of the renal arteries.	Performing a practical skill with special participant	T e s t s	
15	Laboratory tests.			2		Interpretation of the complete blood count	Performing a practical skill using medical documentation	Tests, control surveys, presentation of an abstract	
16	Instrumental diagnostic methods.			2		Solving situational problems.		Tests, control surveys, presentation of an abstract	
17	Clinical basis of electrocardiography. Electrocardiogram recording. Normal electrocardiogram interpretation.			2		Interpretation of the electrocardiogram.	Performing a practical skill using medical documentation	Tests, control surveys, presentation of an abstract	
18	Final class on the section "Patient's examination methods" Credit.			2				Control surveys, electronic tests*; evaluation using electronic- mechanical simulators and robot simulators	
	5 semester								
	Lectures			9					
1	Patient's examination in case of respiratory diseases.			1,5					
2	The main clinical syndromes in case of respiratory diseases.							electronic tests	

3	Patient's examination and main clinical syndromes in case of cardiovascular diseases.	1,5					
4	Clinical and electrocardiographic signs of heart arrhythmias and heart conduction disorders.		1,5				electronic tests
5	Patient's examination and main clinical syndromes in case of gastrointestinal diseases.	1,5					
6	Patient's examination and main clinical syndromes in case of kidney and urinary tract diseases.	1,5					
7	Examination of patients with hematologic diseases.	1,5					
8	Examination of patients with diseases of the thyroid gland, pancreas (diabetes mellitus). Examination of patients with musculoskeletal system diseases.	1,5					
	Practical classes	-	54	-			
1	Examination of patients with respiratory diseases. Subjective method of examination: interview. Objective examination method: general inspection, inspection and palpation of the chest.		3			Chest shape estimation (inspection and palpation). Palpation of the chest pain points.	Performing a practical skill with special participant
2	Objective methods of patient's examination in case of respiratory diseases: lung percussion and lung auscultation. Respiratory tests and investigations.		3			Comparative percussion of the lung. Assessment the inferior lung border. Auscultation of the lungs.	Performing a practical skill on simulation equipment or with special participant
3	The main clinical syndromes in case of respiratory diseases.		3			Solving situational problems Interpretation of the sputum test.	Performing a practical skill using medical documentation
							Tests; control surveys; evaluation using electronic-mechanical simulators and robot simulators. Tests, control surveys.

					Interpretation of pleural fluid test. Interpretation of the chest X-ray.				
4	Examination of patients with cardiovascular diseases. Subjective method: interview. Objective method: general inspection, inspection of the heart area and peripheral vessels, palpation of the heart area, pulse examination.			3	Assessment the pulse on the radial, carotid arteries and dorsalis pedis arteries. Palpation of the apical impulse.		Performing a practical skill with special participant	Tests; control surveys.	
5	Objective method of examination of patients with cardiovascular diseases: heart percussion and heart auscultation. Additional diagnostic methods in case of cardiovascular diseases.			3	Assessment of the relative heart dullness borders. Auscultation of the heart.		Performing a practical skill on simulation equipment or with special participant	Tests; control surveys; evaluation using electronic-mechanical simulators and robot simulators.	
6	The main clinical syndromes in cardiovascular diseases.			3	Interpretation of the chest X-ray. Interpretation of the electrocardiogram. Interpretation of biochemical blood analysis.		Performing a practical skill using medical documentation	Tests, control surveys.	
7	Clinical and electrocardiographic signs of heart arrhythmias.			3	Interpretation of the electrocardiogram.		Performing a practical skill using medical documentation	Tests, control surveys.	
8	Clinical and electrocardiographic signs of heart conduction disorders, atrial and ventricular hypertrophy.			3	Interpretation of the electrocardiogram. Solving situational problems		Performing a practical skill using medical documentation	Tests, control surveys.	
9	Final class on the topics: «Examination of patients with respiratory diseases» and			3				Control surveys, tests; electronic tests; evaluation	

	«Examination of patients with cardiovascular diseases».						using electronic-mechanical simulators and robot simulators
10	Examination of patients with gastrointestinal diseases. Subjective method: interview. Objective method: general and local inspection.		3		Superficial palpation of the abdomen*. Palpation of the sigmoid colon. Palpation of the cecum.	Performing a practical skill on simulation equipment or with special participant	Tests; control surveys; evaluation using scorecard*. Evaluating using electronic-mechanical simulators and robot simulators..
11	Objective examination of patients with gastrointestinal diseases. Auscultation, percussion, palpation of the abdomen.		3		Palpation of the transverse colon. Assessment of the liver size according to M. G. Kurlov's method. Palpation of the liver.	Performing a practical skill on simulation equipment or with special participant	Tests; control surveys; evaluation using electronic-mechanical simulators and robot simulators.
12	Additional diagnostic methods, the main clinical syndromes in gastrointestinal diseases.		3		Solving situational problems Interpretation of the complete blood count.	Performing a practical skill using medical documentation	Tests, control surveys.
13	Examination of patients with kidney and urinary tract diseases.		3		Palpation of the kidneys in the horizontal position. Palpation of the kidneys in the vertical position. Palpation of the ureteral points, assessment of the kidney tenderness, auscultation of the renal arteries.	Performing a practical skill with special participant	Tests; control surveys.
14	Additional diagnostic methods, the main clinical syndromes in case of kidney and urinary tract diseases.		3		Interpretation of Nechiporenko's urine test.	Performing a practical skill using	Tests, control surveys.

					Interpretation of Zimmitsky's urine test. Interpretation of the complete blood count. Interpretation of the urinalysis.	medical documentation	Control surveys, tests; electronic tests; evaluation using electronic-mechanical simulators and robot simulators
15	Final class on the topics «Examination of patients with gastrointestinal diseases» and «Examination of patients with kidney and urinary tract diseases».	3					Tests; control surveys.
16	Examination of patients with hematologic diseases.	3			Inspection and palpation of the lymph nodes of the head and neck. Inspection and palpation of supra-, subclavian and axillary lymph nodes. Inspection and palpation of inguinal and popliteal lymph nodes. Palpation of the spleen. Interpretation of the complete blood count.	Performing a practical skill with special participant	Control surveys, tests; control surveys.
17	Examination of patients with diseases of the thyroid gland, pancreas (diabetes mellitus). Examination of patients with musculoskeletal system diseases.	3			Inspection of the skin and subcutaneous tissues. Inspection and palpation of the thyroid gland. Interpretation of biochemical blood analysis.	Performing a practical skill with special participant	Tests; control surveys.
18	Final class on the topics «Examination of patients with hematologic diseases»,	3					Control surveys, electronic tests*;

	«Examination of patients with diseases of the thyroid gland, pancreas (diabetes mellitus)», «Examination of patients with musculoskeletal system diseases». Practical skills checking. Credit.							evaluation using electronic-mechanical simulators and robot simulators
	6 semester							
	Lectures							
1	Bronchial asthma. Chronic obstructive pulmonary disease. Pneumonia. Pleurisy. Acute and chronic respiratory failure.	6	-	3				
2	Acute rheumatic fever. Infectious endocarditis. Heart valve diseases.	1,5		-				
3	Ischemic heart disease. Angina pectoris. Myocardial infarction. Acute and chronic heart failure. Cardiac arrhythmias and conduction disorders.	-		1,5				electronic tests
4	Diseases of the digestive system: gastritis, stomach ulcer and duodenal ulcer. Liver diseases: hepatitis, liver cirrhosis.	1,5		-				
5	Kidney diseases: glomerulonephritis, pyelonephritis, acute kidney injury, chronic kidney disease.	1,5		-				
6	Hematologic diseases: anemia, hemoblastosis.			1,5				electronic tests
	Practical classes							
1	Bronchial asthma. Chronic obstructive pulmonary disease.	-	48	-			Solving situational problems Interpretation of the sputum test. Interpretation of the chest X-ray.	Performing a practical skill using medical documentation Tests, control surveys.
2	Pneumonia. Pleurisy.		3				Solving situational problems	Performing a practical skill using Tests, control surveys.

						Interpretation of pleural fluid test. Interpretation of the chest X-ray.	medical documentation	
3	Acute rheumatic fever. Infectious endocarditis.			3		Solving situational problems Interpretation of the electrocardiogram.	Performing a practical skill using medical documentation	Tests, control surveys.
4	Heart valve diseases.			3		Auscultation of the heart*. Solving situational problems Interpretation of the electrocardiogram.	Performing a practical skill using medical documentation	Tests; control surveys; evaluation using scorecard*. Evaluating using electronic-mechanical simulators and robot simulators.
5	Arterial hypertension. Atherosclerosis.			3		Solving situational problems Interpretation of the electrocardiogram.	Performing a practical skill using medical documentation	Tests, control surveys.
6	Ischemic heart disease. Angina pectoris. Myocardial infarction.			3		Solving situational problems Interpretation of the electrocardiogram.	Performing a practical skill using medical documentation	Tests, control surveys, control papers.
7	Acute and chronic heart failure. Cardiac arrhythmias and conduction disorders.			3		Interpretation of the electrocardiogram.	Performing a practical skill using medical documentation	Tests, control surveys.
8	Diseases of the digestive system: gastritis, stomach ulcer and duodenal ulcer. Management of gastrointestinal bleeding.			3		Solving situational problems Interpretation of biochemical blood analysis.	Performing a practical skill using medical documentation	Tests, control surveys.

9	Liver diseases: hepatitis, liver cirrhosis. The concept of the gallbladder and pancreas diseases.		3	Solving situational problems Interpretation of biochemical blood analysis.	Performing a practical skill using medical documentation	Tests, control surveys.
10	Kidney diseases: glomerulonephritis, pyelonephritis, acute kidney injury, chronic kidney disease.		3	Solving situational problems Interpretation of the urinalysis. Interpretation of Nechiporenko's urine test. Interpretation of Zimnitsky's urine test.	Performing a practical skill using medical documentation	Tests, control surveys.
11	Hematologic diseases: anemia, hemoblastosis.		3	Solving situational problems Interpretation of the complete blood count.	Performing a practical skill using medical documentation	Tests, control surveys.
12	Thyroid diseases, diabetes mellitus. Management of hyperglycemic and hypoglycemic comas.		3	Solving situational problems Interpretation of biochemical blood analysis.	Performing a practical skill using medical documentation	Tests, control surveys.
13	Diseases of the musculoskeletal system: arthritis in case of connective tissue diseases (rheumatoid arthritis), infectious arthritis, metabolic arthritis (osteoarthritis, gout).		3	Solving situational problems	Performing a practical skill using medical documentation	Tests, control surveys.
14	Acute allergic diseases. Management of anaphylactic shock.		3	Solving situational problems	Performing a practical skill using medical documentation	Tests, control surveys.
15	Presentation of the educational case history.		3			Control surveys, presentation of educational case history.

16	Final class on the section «Special propaedeutics».		3				Control surveys, electronic tests*; evaluation using electronic-mechanical simulators and robot simulators
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*This is a mandatory form of current certification (each student will receive a mark)