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Khanty-Mansiysk Autonomous Okrug-Ugra  
 "Surgut State University"

Approved by  
 Deputy Rector for Academic Affairs

\_\_\_\_\_ E.V. Konovalova

“13” June 2024, Record No. 5

## Hospital Therapy, Endocrinology

### Syllabus

Department	<b>Internal diseases</b>	
Curriculum	s310501-ЛечДелоИН-24-5.plx Specialty 31.05.01 General Medicine	
Qualification	<b>General Practitioner</b>	
Form of education	<b>Full-time</b>	
Total (in credits)	<b>15</b>	
Total academic hours	540	Control:
including:		Credit, term 10 th
Contact	368	Exam, term 12 th
Self-study	145	
Control hours	27	

### — Course outline in terms

Academic year (Term)	<b>5 (5.9)</b>		<b>5 (5.A)</b>		<b>6 (6.B)</b>		<b>6 (6.C)</b>		Total	
	19		21		19		21			
Types of classes	Cur	Syl	Cur	Syl	Cur	Syl	Cur	Syl	Cur	Syl
Lectures	16	16	32	32	16	16	16	16	80	80
Practical	64	64	80	80	80	80	64	64	288	288
Contact	80	80	112	112	96	96	80	80	368	368
Self-study	28	28	32	32	48	48	37	37	145	145
Control hours							27	27	27	27
Total	108	108	144	144	144	144	144	144	540	540

The Syllabus is compiled by:

*Associate Professor*, PhD in Medical Sciences (Medicine), Kushnikova I.P.

*Associate Professor*, PhD in Medical Sciences (Medicine), Frolenkova L.A.

The Syllabus

### **Hospital therapy, endocrinology**

Developed in accordance with Federal State Educational Standard:

Federal State Educational Standard of higher education in the specialty 31.05.01 General medicine (Order of the Ministry of Education and Science of the Russian Federation on February 9, 2016 No. 95)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, "13 " June 2024, Record No. 5

The Syllabus was approved by the department

**Internal disease**

"23 " April 2024, Record No. 10

Head of Department, Doctor of Medicine, Professor Ariamkina O.L.

<b>1. COURSE OBJECTIVES</b>	
1.1	The <b>aim</b> is to acquire scientific knowledge on the etiology, pathogenesis, diagnostics, differential diagnostics, rational pharmacotherapy, rehabilitation and prevention of major visceral diseases and the development of clinical thinking among students; to complete the educational programme; to prepare for the state final certification, develop professional competencies required within the General Practitioner's professional activity; to prepare for therapeutic and preventive work under the supervision of a General Practitioner; to prepare for further postgraduate education.
1.2	The <b>aim</b> of studying the 'Endocrinology' module is to master the principles and methods of differential diagnostics and treatment of major syndromes and diseases of the endocrine system, to form the necessary amount of knowledge and practical skills among the students for independent work in the institutions of hospital care, to develop the students' interdisciplinary thinking in order to form professional competencies required within the General Practitioner's professional activity.

<b>2. COURSE OVERVIEW</b>	
Course code (in curriculum)	Б1.Б.36
<b>2.1</b>	<b>Assumed background:</b>
2.1.1	Internal Diseases Propaedeutics, X-Ray Diagnostics
2.1.2	Hominal Physiology
2.1.3	Biochemistry
2.1.4	Pharmacology
2.1.5	Faculty Therapy, Professional Diseases
2.1.6	Histology, Embriology, Cytology
2.1.7	Clinical Pathophysiology
2.1.8	Clinical Pathologic Anatomy
2.1.9	Pathologic Anatomy
2.1.10	Pathophysiology
<b>2.2</b>	<b>Post requisites:</b>
2.2.1	Functional Diagnostics
2.2.2	Obstetrics and Gynecology
2.2.3	Hospital Surgery, Paediatric Surgery
2.2.4	Ambulatory Therapy
2.2.5	Professional Practice, Clinical Practice, General Practitioner Assistant (outpatient)
2.2.6	Clinical Pharmacology
2.2.6	Medical Rehabilitation
2.2.7	Preparation for and passing the state exam
<b>3. COMPETENCIES UPON COMPLETION OF THE COURSE (MODULE)</b>	
<b>GCC-1: ability to abstract thinking, analysis, synthesis</b>	
<b>GPC-6: readiness to keep medical records</b>	
<b>PC-5: willingness to collect and analyze patient's complaints, their medical history, examination results, laboratory, instrumental, pathological and other studies in order to identify the condition or establish the presence or absence of the disease</b>	
<b>PC-6: the ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Problems Related to Health, X revision</b>	
<b>PC-8: the ability to determine the tactics of managing patients with various nosological forms</b>	

**PC-10: readiness to provide medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care**

**As a result of mastering the discipline, the student must**

<b>3.1</b>	<b>know:</b>
3.1.1	<p>significant problems and processes;  rules of keeping medical records;  main pathological symptoms and clinical and laboratory syndromes in a clinical setting;  clinical symptoms and pathogenesis of major diseases, their prevention, diagnostics and treatment, clinical symptoms of borderline states;  outlines and principles of pharmacological and non-pharmacological therapy, physiotherapy, physical therapy and medical monitoring, indications for surgical treatment of somatic pathology;  basics of rational diet therapy;  modern methods of clinical and laboratory diagnostics and treatment in accordance with the standards and clinical protocols of performance in practice;  principles of differential diagnosis between most common pathologies and clinically similar diseases;  principles of treatment and prevention of diseases;  side effects of medicines;  emergency medical care in life-threatening conditions;  indications for patients' hospital admission;  the basic principles of treatment of various populations with different nosologies;  the characteristics of anamnesis of endocrinological patients, basic and advanced methods of examination (according to ICD);  fundamentals of deontology and medical ethics;  etiology, pathogenesis, diagnostics of endocrine diseases (in accordance with the International Statistical Classification of Diseases), the principles of diagnostics between most common pathologies and clinically similar diseases;  the scope of emergency therapeutic care in life-threatening conditions;  rules of drug inventory and principles of drug provision for endocrine patients;  principles of treatment of endocrine pathology;  main principles of treatment of various population groups with different nosologies.</p>
<b>3.2</b>	<b>be able to:</b>
3.2.1	<p>analyze socially significant processes;  keep medical records;  carry out a survey, physical examination, clinical examination, interpret the results of laboratory and instrumental examination;  interpret the results laboratory and instrumental methods of research;  determine a diagnosis according to the International Classification of Diseases on the basis of data from the main and additional research methods;  perform basic and additional research methods to clarify the diagnosis;  develop a patient examination programme;  determine a detailed clinical diagnosis based on the data obtained during the examination, determine the activity and the stage of the pathological process;  assign treatment to the patient, taking into account knowledge of the etiology, the pathogenesis of the disease (etiological, pathogenetic treatment, basic and adjuvant therapy, symptomatic treatment);  develop specific measures for the secondary prevention and rehabilitation therapy of the supervised patient;  file medical records;  the basic principles of treatment of various populations with different nosologies;  interpret the results of laboratory and instrumental examinations;  perform basic and additional methods of examination for endocrine diseases (general clinical, hormonal, instrumental and radiological) to clarify the diagnosis, to carry out diagnostic tests for differential diagnostics;  interpret the results of laboratory and instrumental methods of research;  determine a diagnosis according to the International Classification of Diseases on the basis of data from the main and additional research methods;  perform basic and additional research methods to clarify the diagnosis;  use regulations on endocrinology in medical practice;  predict the need for drugs; to determine the indications for the use of hormonal and other drugs for endocrine diseases;  assess the adequacy of hormone therapy.</p>
<b>4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)</b>	

Class Code	Topics/Class type	Term / Academic year	Academic hours	Competences	Literature	Inter active	Notes
	<b>Section 1. Respiratory diseases</b>						
1.1	<b>Emphysema. Chronic obstructive pulmonary disease (COPD). Pulmonary heart / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1. ፳፯ ፳፭ ፳፮ ፳፱	0	
	<b>Section 2. Diseases of the cardiovascular system</b>						
2.1	<b>Myocarditis. Pericarditis / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ፳፯ ፳፭ ፳፮ ፳፱	0	
2.2	<b>Myocarditis. Pericarditis / self-study</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 3.1 ፳፯ ፳፭ ፳፮ ፳፱	0	
2.3	<b>Cardiomyopathy: primary, secondary / self-study</b>	9	2	GCC-1, GPC-6, PC-5	L 1.1. ፳፯ ፳፭ ፳፮ ፳፱	0	
2.4	<b>Cardiomyopathy: primary, secondary / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ፳፯ ፳፭ ፳፮ ፳፱	0	
2.5	<b>Heart rhythm disorders (arrhythmias) / practical classes</b>	9	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ፳፯ ፳፭ ፳፮ ፳፱	2	
2.6	<b>Heart rhythm disorders (arrhythmias) / self-study</b>	9	4	PC-5, PC-8	L 1.1. L 2.1. ፳፯ ፳፭ ፳፮ ፳፱	0	
2.7	<b>Symptomatic arterial hypertension / self-study</b>	9	2	GCC-1, GPC-6, PC-5	L 1.1. L 2.1. ፳፯ ፳፭ ፳፮ ፳፱	0	
2.8	<b>Myocarditis. Pericarditis / lecture</b>	9	2	PC-5, PC-6	L 1.1. ፳፯ ፳፭ ፳፮ ፳፱	0	
2.9	<b>Heart rhythm disorders (arrhythmias) / lecture</b>	9	2	GCC-1, GPC-6, PC-5	L 1.1. ፳፯ ፳፭ ፳፮ ፳፱	0	
2.10	<b>Symptomatic arterial hypertension / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 3.1 ፳፯ ፳፭ ፳፮ ፳፱	0	
2.11	<b>Congenital heart defects in adults / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ፳፯ ፳፭ ፳፮ ፳፱	4	

2.12	<b>Conduction abnormalities / lecture</b>	9	2	GCC-1, PC-5, PC-6	L 1.1. ᠑5 ᠑6 ᠑7 ᠑9	0	
2.13	<b>Conduction abnormalities / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. L 3.1 ᠑5 ᠑6 ᠑7 ᠑9	0	
	<b>Section 3. Rheumatological diseases</b>						
3.1	<b>Diffuse diseases of the connective tissue. Systemic lupus erythematosus. Systemic scleroderma. Dermatomyositis / lecture</b>	9	2	GCC-1, GPC-6, PC-5	L 1.2 L 2.1. ᠑4 ᠑6 ᠑7 ᠑9	0	
3.2	<b>Diffuse diseases of the connective tissue. Systemic lupus erythematosus. Systemic scleroderma. Dermatomyositis / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑4 ᠑6 ᠑7 ᠑9	0	
3.3	<b>Joint diseases. Rheumatoid arthritis. Gout. Osteoarthritis. Ankylosing Spondylitis / lecture</b>	9	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑4 ᠑6 ᠑7 ᠑9	0	
3.4	<b>Joint diseases. Rheumatoid arthritis. Gout. Osteoarthritis. Ankylosing Spondylitis / practical classes</b>	9	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑4 ᠑6 ᠑7 ᠑9	0	
3.4	<b>Joint diseases. Rheumatoid arthritis. Gout. Osteoarthritis. Ankylosing Spondylitis / self-study</b>	9	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑4 ᠑6 ᠑7 ᠑9	0	
3.5	<b>Systemic vasculitis / lecture</b>	9	2	GCC-1, GPC-6, PC-5	L 1.2. ᠑4 ᠑6 ᠑7 ᠑9	0	
3.6	<b>Systemic vasculitis / practical classes</b>	9	4	PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑4 ᠑6 ᠑7 ᠑9	0	
3.7	<b>Systemic vasculitis / self-study</b>	9	4	GCC-1, GPC-6, PC-5	L 1.2 L 2.1. L 3.1. ᠑4 ᠑5 ᠑6 ᠑9	0	
	<b>Section 4. Urinary System diseases</b>						
4.1	<b>Nephrotic syndrome. Amyloidosis. Chronic pyelonephritis / self-study</b>	9	2	GCC-1, GPC-6, PC-5, PC-6	L 1.2. ᠑1 ᠑6 ᠑7 ᠑9	0	

4.2	<b>Nephrotic syndrome. Amyloidosis. Chronic pyelonephritis / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ፩1 ፩6 ፩7 ፩9	0	
4.3	<b>Renal failure. Chronic kidney disease (CKD). Acute kidney damage (AKI) / lecture</b>	9	2	GCC-1, GPC-6, PC-5	L 1.2. ፩6 ፩7 ፩9	0	
4.4	<b>Renal failure. Chronic kidney disease (CKD). Acute kidney damage (AKI) / self-study</b>	9	4	GCC-1, GPC-6, PC-5	L 1.2 L 2.1. L 2.2. L 3.1 ፩1 ፩6 ፩7 ፩9	0	
4.5	<b>Renal failure. Chronic kidney disease (CKD). Acute kidney damage (AKI) / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ፩1 ፩5 ፩6 ፩9	0	
	<b>Section 5. Diseases of the gastrointestinal tract</b>						
5.1	<b>Inflammatory bowel disease. Ulcerative colitis. Crohn's disease / lecture</b>	9	2	GCC-1, GPC-6, PC-6	L 1.2. ፩6 ፩7 ፩9	0	
5.2	<b>Inflammatory bowel disease. Ulcerative colitis. Crohn's disease / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ፩6 ፩7 ፩9	0	
5.3	<b>Inflammatory bowel disease/ Ulcerative colitis. Crohn's disease / self-study</b>	9	4	GCC-1, GPC-6, PC-5	L 1.2. ፩6 ፩7 ፩9	0	
5.4	<b>Final lesion. Writing educational history of the disease / practical classes</b>	9	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.	0	Control work
	<b>Section 6. Hematology diseases</b>						
6.1	<b>Anemia / practical classes</b>	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ፩3 ፩6 ፩7 ፩9	0	
6.2	<b>Anemia / lecture</b>	10	4	GCC-1, GPC-6, PC-5	L 1.2. ፩3 ፩6 ፩7 ፩9	0	
6.3	<b>Hemoblastosis: acute leukemia / practical classes</b>	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ፩3 ፩6 ፩7 ፩9	0	
6.4	<b>Hemoblastosis: chronic leukemia / lecture</b>	10	2	GCC-1, GPC-6, PC-5	L 1.2. ፩3 ፩6 ፩7 ፩9	0	
6.5	<b>Hemoblastosis: chronic leukemia / practical classes</b>	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ፩3 ፩6 ፩7 ፩9	0	

6.6	<b>Hemorrhagic diathesis / lecture</b>	10	2	GCC-1, GPC-6	L 1.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.7	<b>Hemorrhagic diathesis / self-study</b>	10	4	PC-5, PC-6	L 1.2 L 2.1. L 2.2. ᠑3 ᠑7 ᠑9	0	
6.8	<b>Hemorrhagic diathesis / practical classes</b>	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	2	
6.9	<b>The concept of paraproteinemic hemoblastosis. Myeloma / lecture</b>	10	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.10	<b>The concept of paraproteinemic hemoblastosis. Myeloma / practical classes</b>	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.11	<b>Lymphomas. Lymphogranulomatosis / lecture</b>	10	2	GCC-1, GPC-6, PC-5	L 1.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.12	<b>Lymphomas. Lymphogranulomatosis / practical classes</b>	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.13	<b>Lymphomas. Lymphogranulomatosis /self-study</b>	10	6	GCC-1, GPC-6, PC-	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
6.14	<b>Anemia / self-study</b>	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑6 ᠑7 ᠑9	0	
	<b>Section 7. Endocrinological diseases</b>						
7.1	<b>Diabetes mellitus: etiology, pathogenesis, clinic, diagnosis / lecture</b>	10	2	GCC-1, GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.2	<b>Diabetes mellitus: etiology, pathogenesis, clinic, diagnosis / self-study</b>	10	6	GCC-1, GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.3	<b>Diabetes mellitus: etiology, pathogenesis, clinic, diagnosis / practical classes</b>	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	2	
7.4	<b>Diabetes treatment / lecture</b>	10	2	GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.5	<b>Diabetes treatment / practical classes</b>	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	

7.6	<b>Chronic complications of diabetes</b> / lecture	10	4	GCC-1, GPC-6, PC-5	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.7	<b>Chronic complications of diabetes</b> / practical classes	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.8	<b>Acute complications of diabetes</b> / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.9	<b>Acute complications of diabetes</b> / lecture	10	2	GCC-1, GPC-6, PC-5	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.10	<b>Issues of classification of thyroid diseases. Thyrotoxicosis syndrome (diffuse toxic goiter, toxic adenoma, multinodular toxic goiter)</b> / lecture	10	2	GCC-1, GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.11	<b>Issues of classification of thyroid diseases. Thyrotoxicosis syndrome (diffuse toxic goiter, toxic adenoma, multinodular toxic goiter)</b> / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	2	
7.12	<b>Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism.</b> / lecture	10	2	GCC-1, GPC-6, PC-5	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.13	<b>Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism.</b> / practical classes	10	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.14	<b>Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism.</b> / self-study	10	4	GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.15	<b>Hypercorticism: Disease and Itsenko-Cushing syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment</b> / lecture	10	2	GCC-1, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
7.16	<b>Hypercorticism: Disease and Itsenko-Cushing syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment</b> / self-study	10	4	GPC-6, PC-5, PC-6	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	

7.17	<b>Hypercorticoïdism: Disease and Itsenko-Cushing syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment / practical classes</b>	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᄆ ᄇ ᄈ ᄉ	0	
7.18	<b>Hypocorticoïdism: chronic adrenal insufficiency; acute adrenal insufficiency. Pheochromocytoma. Adrenal incidence of breakthroughs / practical classes</b>	10	8	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᄆ ᄇ ᄈ ᄉ	0	

7.19	<b>Hypocorticoïdism: chronic adrenal insufficiency; acute adrenal insufficiency. Pheochromocytoma. Adrenal incidence of breakthroughs / lecture</b>	10	2	GCC-1, PC-5, PC-6	L 1.3. ᄆ ᄇ ᄈ ᄉ	0	
7.20	<b>Diseases of the hypothalamic-pituitary system: pituitary nanism; acromegaly and gigantism, diabetes insipidus / lecture</b>	10	2	GPC-6, PC-5, PC-6	L 1.3. ᄆ ᄇ ᄈ ᄉ	0	
7.21	<b>Diseases of the hypothalamic-pituitary system: pituitary nanism; acromegaly and gigantism, diabetes insipidus / practical classes</b>	10	3	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᄆ ᄇ ᄈ ᄉ	0	
7.22	<b>Diseases of the hypothalamic-pituitary system: pituitary nanism; acromegaly and gigantism, diabetes insipidus / self-study</b>	10	5	GCC-1, GPC-6, PC-5, PC-6	L 1.3. ᄆ ᄇ ᄈ ᄉ	0	
7.23	<b>Control work /Control /</b>	10	0	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3.		Control work
	<b>Credit</b>	10	0				
	<b>Section 8. Pulmonology</b>						
8.1	<b>Differential diagnosis and treatment guidelines for broncho-obstructive syndrome / lecture</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ᄆ ᄇ ᄈ ᄉ	0	
8.2	<b>Differential diagnosis and treatment guidelines for broncho-obstructive syndrome / practical classes</b>	11	12	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ᄆ ᄇ ᄈ ᄉ	0	

8.3	<b>Differential diagnosis and treatment guidelines for broncho-obstructive syndrome / self-study</b>	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ፩ ፪ ፫ ፬ ፭ ፮	0	
8.4	<b>Differential diagnostics and treatment of pulmonary embolism / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ፩ ፪ ፫ ፬ ፭ ፮	0	
8.5	<b>Differential diagnostics and treatment of pulmonary embolism / self-study</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ፩ ፪ ፫ ፬ ፭ ፮	0	
8.6	<b>Differential diagnostics and treatment of focal lung diseases / lecture</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ፩ ፪ ፫ ፬ ፭ ፮	0	
8.7	<b>Differential diagnostics and treatment of focal lung diseases / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ፩ ፪ ፫ ፬ ፭ ፮	2	
8.8	<b>Differential diagnostics and treatment of focal lung diseases / self-study</b>	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ፩ ፪ ፫ ፬ ፭ ፮	0	
	<b>Section 9. Cardiology</b>						
9.1	<b>Differential diagnostics of heart failure / lecture</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ፳ ፻ ፶ ፷ ፸ ፹	0	
9.2	<b>Differential diagnostics of hypertension / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ፳ ፻ ፶ ፷ ፸ ፹	0	
9.3	<b>Differential diagnostics of heart failure / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ፳ ፻ ፶ ፷ ፸ ፹	2	
9.4	<b>Differential diagnostics of heart failure / self-study</b>	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ፳ ፻ ፶ ፷ ፸ ፹	0	
9.5	<b>Differential diagnostics of chest pains: features of coronary and noncoronary pains / lecture</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. ፳ ፻ ፶ ፷ ፸ ፹	0	
9.6	<b>Differential diagnostics of chest pains: features of coronary and noncoronary pains / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. L 2.1. L 2.2. ፳ ፻ ፶ ፷ ፸ ፹	0	

9.7	<b>Differential diagnostics of chest pains: features of coronary and noncoronary pains. / self-study</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2.35 36 37 39	0	
9.8	<b>Differential diagnostics of cardiac arrhythmias and conduction disorders / lecture</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1. 35 36 37 39	0	
9.9	<b>Differential diagnostics of cardiac arrhythmias and conduction disorders / practical classes</b>	11	12	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2.35 36 37 39	0	
9.10	<b>Differential diagnostics of cardiac arrhythmias and conduction disorders / self-study</b>	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2.35 36 37 39	0	
9.11	<b>Differential diagnostics of myocardial diseases: myocarditis, primary and secondary cardiomyopathy / lecture</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. 35 36 37 39	0	
9.12	<b>Differential diagnostics of myocardial diseases: myocarditis, primary and secondary cardiomyopathy / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.1 L 2.1. L 2.2.35 36 37 39	2	
	<b>Section 10. Nephrology</b>						
10.1	<b>Differential diagnosis of kidney damage syndromes / lecture</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. 31 34 35 36 37 38 39	0	
10.2	<b>Differential diagnosis of kidney damage syndromes / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.31 34 35 36 37 38 39	0	
10.3	<b>Differential diagnostics and treatment of edema syndrome / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.31 35 36 37 39	0	
10.4	<b>Differential diagnostics and treatment of edema syndrome / self-study</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.31 35 36 37 39	0	
10.5	<b>Differential diagnostics and treatment of renal failure / practical classes</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.31 36 37 39	2	
10.6	<b>Differential diagnostics and treatment of renal failure / self-study</b>	11	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.31 36 37 39	0	

	<b>Section 11. Related sections</b>						
11.1	<b>Features of the course and treatment of visceral diseases in special groups of patients (pregnant, elderly) / lecture</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. Э1 Э2 Э3 Э4 Э5 Э6 Э7 Э8 Э9	0	
11.2	<b>Features of the course and treatment of visceral diseases in special groups of patients (pregnant, elderly) / practical classes</b>	11	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. Э1 Э2 Э3 Э4 Э5 Э6 Э7 Э8	0	Control work
11.3	<b>Features of the course and treatment of visceral diseases in special groups of patients (pregnant, elderly) / self-study</b>	11	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. Э5 Э6 Э7 Э9	0	
11.4	<b>Final lesson. Writing educational history of the disease / self-study</b>	11	4	<b>GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10</b>	<b>L 1.2. Э1 Э2 Э3 Э4 Э5 Э6 Э7 Э8 Э9</b>	<b>0</b>	
	<b>Section 12. Gastroenterology</b>						
12.1	<b>Differential diagnostics of hepatomegaly and hepatolienal syndrome. / lecture</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 Э6 Э7 Э9 Э10	0	
12.2	<b>Differential diagnostics of hepatomegaly and hepatolienal syndrome / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.Э6 Э7 Э9 Э10	0	
12.3	<b>Differential diagnostics of hepatomegaly and hepatolienal syndrome / self-study</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. Э6 Э7 Э9 Э10	0	
12.4	<b>Differential diagnostics of the syndrome of esophageal, gastric and intestinal dyspepsia / lecture</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. Э6 Э7 Э9 Э10	0	
12.5	<b>Differential diagnostics of the syndrome of esophageal, gastric and intestinal dyspepsia / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.Э6 Э7 Э9 Э10	0	
12.6	<b>Differential diagnostics of the syndrome of esophageal, gastric and intestinal dyspepsia / self-study</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.Э6 Э7 Э9 Э10	0	
12.7	<b>Differential diagnostics and treatment of abdominal pain / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.Э6 Э7 Э9 Э10	0	

12.8	<b>Differential diagnostics and treatment of abdominal pain / self-study</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑6 ᠑7 ᠑9 ᠑10	0	
	<b>Section 13. Hematology</b>						
13.1	<b>Differential diagnostics of lymphadenopathy and splenomegaly / lecture</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑3 ᠑6	0	
13.2	<b>Differential diagnostics of lymphadenopathy and splenomegaly / self-study</b>	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑3 ᠑6	0	
13.3	<b>Differential diagnostics and treatment of diseases manifested by hemorrhagic syndrome / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2.᠑3	0	
13.4	<b>Differential diagnostics and treatment of diseases manifested by hemorrhagic syndrome / self-study</b>	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3	0	
13.5	<b>Differential diagnostics and treatment of hemoblastosis / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3	0	
13.6	<b>Differential diagnostics and treatment of hemoblastosis / self-study</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3	0	
13.7	<b>Diagnostics, treatment and prevention of thrombosis / lecture</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑3 ᠑5 ᠑6 ᠑7 ᠑9	0	
13.8	<b>Diagnostics, treatment and prevention of thrombosis / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑3 ᠑5 ᠑6 ᠑7 ᠑9	0	
13.9	<b>Diagnostics, treatment and prevention of thrombosis / self-study</b>	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑3 ᠑5 ᠑6 ᠑7 ᠑9	0	
	<b>Section 14. Endocrinology</b>						
14.1	<b>Differential diagnostics of diseases manifested by hypothyroidism and thyrotoxicosis / lecture</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	

14.2	<b>Differential diagnostics of diseases manifested by hypothyroidism and thyrotoxicosis / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
14.3	<b>Differential diagnostics of diseases manifested by hypothyroidism and thyrotoxicosis / self-study</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. L 3.1 ᠑6 ᠑7 ᠑8 ᠑9	0	
14.4	<b>Differential diagnosis of hyperglycemia and glycosuria / lecture</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
14.5	<b>Differential diagnosis of hyperglycemia and glycosuria / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.3. ᠑6 ᠑7 ᠑8 ᠑9	0	
14.6	<b>Differential diagnosis of hyperglycemia and glycosuria / self-study</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 3.1	0	
<b>Section 15. Rheumatology</b>							
15.1	<b>Differential diagnostics of joint damage / lecture</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑4 ᠑6 ᠑7 ᠑9	0	
15.2	<b>Differential diagnostics of joint damage / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑4 ᠑6 ᠑7 ᠑9	2	
15.3	<b>Differential diagnostics of joint damage / self-study</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑4 ᠑6 ᠑7 ᠑9	0	
15.4	<b>Differential diagnostics and treatment of systemic connective tissue diseases / practical classes</b>	12	6	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑4 ᠑6 ᠑7 ᠑9	0	
15.5	<b>Differential diagnostics and treatment of systemic connective tissue diseases / self-study</b>	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑4 ᠑6 ᠑7 ᠑9	0	
<b>Section 16. Related sections</b>							
16.1	<b>Differential diagnostics of fever / lecture</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2. ᠑6 ᠑7 ᠑9	0	
16.2	<b>Differential diagnostics of fever / practical classes</b>	12	4	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑6 ᠑7 ᠑9	0	

16.3	<b>Differential diagnostics of fever / self-study</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑6 ᠑7 ᠑9	0	
16.4	<b>Paraneoplastic syndromes in the clinic of internal diseases / self-study</b>	12	2	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. ᠑1 ᠑3 ᠑4 ᠑6 ᠑7 ᠑8 ᠑9	0	
16.5	Writing an educational history of the disease / self-study	12	3	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2 L 2.1. L 2.2. L 3.1 ᠑1 ᠑2 ᠑3 ᠑4 ᠑5 ᠑6 ᠑7 ᠑8	0	
16.6	Control work /Control /	12	0	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10	L 1.2.	0	Control work
16.7	<b>Exam</b>	12	27	GCC-1, GPC-6, PC-5, PC-6, PC-8, PC-10		0	oral quiz, case-study

## 5. ASSESSMENT TOOLS

### 5.1. Tests and tasks

Presented by a single document

### 5.2. Topics for written papers

Presented by a single document

## 6. COURSE (MODULE) RESOURCES

### 6.1. Recommended Literature

#### 6.1.1. Core

	Authors	Title	Publish., year	Quantity
L 1.1.	Martynov A.I. ; Kobalava Z.D. ; Moiseev S.V.	Internal diseases/ Volume 1	Electronic resource	1
L 1.2.	Martynov A.I. ; Kobalava Z.D. ; Moiseev S.V.	Internal diseases/ Volume 2	Electronic resource	1
L 1.3	Dedov I.I. ; Melnichenko G.A. ; Fadeev V.V.	Endocrinology	Electronic resource	1

#### 6.1.2. Supplementary

	Authors	Title	Publish., year	Quantity
L 2.1	Arkhipov. V., Baleeva L. V. etc.	Patient management tactics in therapy : a practical guide	Moscow : GEOTAR-Media, 2023-306, [1] p. Electronic resource	1

L 2.2	Shavarova E.K., Efremovtseva, M.A., Troitskaya E.A. and etc.	Clinical Cases in Internal Diseases Specialty	Electronic resource	1
<b>6.1.3. Methodical development</b>				
	Authors	Title	Publish., year	Quantity
L 3.1	Kushnikova I.P.	Situational tasks for internal diseases : methodological recommendations	Surgut, 2023 Electronic resource	1
<b>6.2. Internet resources</b>				
Э1	Kidney Disease: Improving Global Outcomes - <a href="https://kdigo.org/">https://kdigo.org/</a>			
Э2	European Respiratory Society - <a href="https://www.ersnet.org/">https://www.ersnet.org/</a>			
Э3	The European Hematology Association - <a href="https://ehaweb.org/">https://ehaweb.org/</a>			
Э4	Research Institute named after V.A. Nasonov - <a href="https://rheumatolog.su/">https://rheumatolog.su/</a>			
Э5	European Society of Cardiology - <a href="https://www.escardio.org/">https://www.escardio.org/</a>			
Э6	Journal "Consilium medicum" - <a href="https://consilium.orscience.ru/en/">https://consilium.orscience.ru/en/</a>			
Э7	FreeMedicalJournals - <a href="http://www.freemedicaljournals.com/">http://www.freemedicaljournals.com/</a>			
Э8	ENDOCRINOLOGICAL SCIENTIFIC CENTER OF THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION - <a href="https://www.endocrincentr.ru">https://www.endocrincentr.ru</a>			
Э9	Educational Resource for Doctors Dia Academy - <a href="https://diaacademy.co.uk/">https://diaacademy.co.uk/</a>			
Э10	United European Gastroenterology - <a href="https://ueg.eu/">https://ueg.eu/</a>			
<b>6.3.1 Software</b>				
6.3.1.1	Operational System Microsoft, applied programs pack Microsoft Office			
<b>6.3.2 Information Referral systems</b>				
6.3.2.1	<a href="http://www.garant.ru">http://www.garant.ru</a>			
6.3.2.2	<a href="http://www.consultant.ru">http://www.consultant.ru</a>			
<b>7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)</b>				
7.1	Classrooms for lecture classes, practical classes, group and individual consultations, current control and interim examination are equipped with: typical educational furniture, technical teaching aids, employees for the presentation of educational information			
7.2	Practical classes, individual consultations, current control and interim control are held in the classroom of the Department of Internal Diseases of the MI based on SOKB platform			
7.3	Simulation and training accreditation center MI SurGU			
7.4	The room of the simulation center MI, is equipped with phantom and simulation equipment, laboratory tools and consumables in sufficient quantity			
7.5	Multimedia Projector			
7.6	Library of laboratory and instrumental research results			
7.7	Roles for standardized patients			
7.8	Library of case-studies			
7.9	Clinical Script Library			
7.10	Evaluation library			
7.11	The classroom for lectures is equipped with: multimedia projector, screen, laptop, stationary educational blackboard, typical educational furniture: tables, chairs.			
7.12	Classrooms have a material and technical equipment that provides for all types of disciplinary and interdisciplinary training, practical and research work of students as stated in the work program, and complies with current sanitary and fire regulations and standards.			