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

Approved by
 Deputy Rector for Academic Affairs

_____ E.V. Konovalova
 “11” June 2025, Record No.5

Endocrinology

Syllabus

Department Internal diseases

Curriculum s310501-ЛечДело-Ин-25-5.pli.xml
 Specialty 31.05.01 General Medicine

Qualification **General Practitioner**

Form of education Full-time

Total (in credits) **2**

Total academic hours 72 Control: Credit, 10 (A) term

including:

Classes 48

Self-study 24

Control hours -

Course outline in terms

Academic year (Term)	10 (5.2)		Total	
Weeks	15			
Types of classes				
Lectures	16	16	16	16
Practical	32	32	32	32
Contact	48	48	48	48
Self-study	48	48	48	48
Control hours	24	24	24	24
Total	72	72	72	72

The Syllabus is compiled by
Professor, Doctor of Medicine, Dobrynina I.P. _____

The Syllabus
Endocrinology

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 August 12, 2020 №988)

Based on the Curriculum:

31.05.01 GENERAL MEDICINE

Specialization: General Medicine

Approved by the Academic Council of Surgut State University, "11" June 2025, Record No. 5

The Syllabus was approved by the department
Internal diseases
Head of Department, Doctor of Medicine

1. COURSE OBJECTIVES	
1.1	The aim 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, develop professional competencies required within the General Practitioner's professional activity.

2. COURSE OVERVIEW	
Course code (in curriculum):	Б1.О.04.41
2.1 Assumed background:	
2.1.1	Human Anatomy
2.1.2	Latin Language
2.1.3	Histology, Embryology, Cytology
2.1.4	Microbiology, Virology
2.1.5	Internal Diseases Propaedeutics
2.1.6	Hominal Physiology
2.1.7	Biochemistry
2.1.8	Pharmacology
2.1.9	X-Ray Diagnostics
2.1.10	Faculty Therapy
2.1.11	Pathological Anatomy
2.1.12	Pathological Physiology
2.1.13	Immunology and Allergology
2.1.14	Clinical Pathologic physiology
2.1.15	Pathologic Syndromes in Clinical Medicine
2.1.16	Infectious Diseases
2.1.17	Hospital therapy
2.2 Post-requisite courses and practice:	
2.2.1	Outpatient therapy
2.2.2	Clinical pharmacology
2.2.3	Medical Rehabilitation
2.2.4	Hospital therapy
3. COMPETENCES UPON COMPLETION OF THE COURSE (MODULE)	

PC-1.1. Demonstrates knowledge in etiology, pathogenesis, diagnostic criteria (clinical - subjective, physical, laboratory, instrumental, identifies the patient's common pathological conditions, symptoms, disease syndromes and diagnoses nosological forms according to the International Statistical Classification of Diseases and Related Health Problems, X - XI revisions
PC-1.2. – Carries out diagnostics, evaluates the prognosis (short-, medium- and long-term course) of the disease, identifies acute complications and complications of chronic diseases

PC-3.1. Examines the patient (handle the patient's complaints, anamnesis, physical data based on the examination results, determines the necessary examination plan, evaluates the parameters of laboratory, instrumental, pathological and anatomical and other methods in order to diagnose diseases, assesses the prognosis (short-, medium- , long-term) of its course and outcomes
PC-3.2. Makes an initial and clinical diagnosis in accordance with the International Statistical Classification of Diseases and Health Problems X - XI revisions and current clinical classifications
PC-3.3. Carries out early and differential diagnostics of diseases;
PC-3.4. Provides routing and management of patients based on the current legislation (standards, procedures for the provision of medical care, Clinical guidelines)

PC-5.1. Demonstrates knowledge of the mechanisms and methods applied in pharmacotherapy, medical nutrition, medical devices and methods of non-drug treatment, palliative and personalized medical care;
PC-5.2. Provides various categories of patients with outpatient treatment, treatment in hospitals and high-tech medical care (HMC) centers applying drugs, medical devices and medical nutrition, according to clinical pattern and current procedures, standards of medical care, Clinical guidelines (treatment protocols);
PC-5.4. Demonstrates knowledge of side effects of drugs, methods and duration of their use; assesses the effectiveness and safety of pharmacotherapy, medical nutrition and non-drug treatment, medical nutrition of palliative care.

PC-8.2. Keeps medical records, including the electronic format.

By the end of the course students must:

3.1	Know:
3.1.1	etiology, pathogenesis of the main pathological symptoms, disease syndromes
3.1.2	rules of registration medical documents
3.1.3	nosological forms according to the International Statistical Classification of Diseases and Related Health Problems, X - XI revisions
3.1.4	modern clinical classifications and diagnostic in the diagnosis of endocrine diseases, classic possibilities, stages of the disease;
3.1.5	the volume of diagnostic measures carried out for diseases of the endocrine organs in order to clarify the diagnosis; the main methods of instrumental diagnostics and the possibility of their application in professional activities
3.1.6	principles of differential diagnosis of the most common pathologies with clinically similar diseases;
3.1.7	mechanisms of action, methods of application of pharmacotherapy and methods of non-drug treatment
3.1.8	knowledge of side effects of drugs, methods of their administration, knowledge of the duration of their use
3.2	Be able to:
3.2.1	conduct a diagnostic search for diseases using medical equipment (products) to make a diagnosis;
3.2.2	compile medical documentation (case history)
3.2.4	design patient's examination programme;
3.2.5	make clinical diagnosis according to the International Statistical Classification of Diseases and Related Health Problems, X - XI revisions
3.2.6	to carry out differential diagnostics, considering the existing clinical syndromes with similar diseases
3.2.7	prescribe treatment to the patient, considering knowledge of the etiology, characteristics of the pathogenesis of the disease (etiological, pathogenetic treatment, basic and auxiliary therapy, symptomatic treatment);
3.2.8	Prevent possible complications of endocrine diseases

4. STRUCTURE AND CONTENTS OF THE COURSE (MODULE)						
Class Code	Topics /Class type	Term	Academic hours	Competences	Literature	Notes
	Diabetes mellitus: etiology, pathogenesis, clinical picture, diagnosis. /Lec/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1 L2.1 E1, E2, E3	
	Diabetes mellitus: etiology, pathogenesis, clinical picture, diagnosis. /Practice/	10	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L2.1 E1, E2, E3	
	Diabetes mellitus: etiology, pathogenesis, clinical picture, diagnosis. /Self-study/	10	4	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1, L2.1 E1, E2, E3	
	Diabetes mellitus treatment. /Lec/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1, L2.1 E1, E2, E3	
	Diabetes mellitus treatment. /Practice/	10	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1, L2.1 E1, E2, E3	
	Diabetes mellitus treatment. /Self-study/	10	4	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1, L2.1 E1, E2, E3	

Chronic complications of diabetes /Lec/	10	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1, L2.1 E1, E2, E3	
Chronic complications of diabetes /Practice/	10	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1, L2.1 E1, E2, E3	
Chronic complications of diabetes /Self-study/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L2.1 E1, E2, E3	
Acute complications of diabetes /Lec/	10	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1 L2.1 E1, E2, E3	
Acute complications of diabetes /Practice/	10	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L2.1 E1, E2, E3	
Acute complications of diabetes /Self-study/	10	4	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1 L2.1 E1, E2, E3	
Questions of classification of diseases of the thyroid gland Syndrome of thyrotoxicosis (diffuse toxic goiter, toxic adenoma, multinodular toxic goiter). /Lec/	10	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 E1, E2, E3	
Classification issues of thyroid diseases Thyrotoxicosis syndrome (diffuse toxic goiter, toxic adenoma, multinodular toxic goiter). /Practice/	10	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 E1, E2, E3	
Questions of classification of diseases of the thyroid gland Syndrome of thyrotoxicosis (diffuse toxic goiter, toxic adenoma, multinodular toxic goiter). /Self-study/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1 E1, E2, E3	
Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism /Lec/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1 E1, E2, E3	
Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism /Practice/	10	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 E1, E2, E3	
Euthyroid goiter. Autoimmune thyroiditis. Hypothyroidism. /Self-study/	10	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 E1, E2, E3	

	Hypercortisolism: Itsenko-Cushing's disease and syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment /Lec/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1 E1, E2, E3, E4, E5, E6	
	Hypercortisolism: Itsenko-Cushing's disease and syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment. /Practice/	10	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 E1, E2, E3, E4, E5, E6	
	Hypercortisolism: Itsenko-Cushing's disease and syndrome classification; etiology, pathogenesis, clinic, diagnostics (laboratory and nosological), treatment /Self-study/	10	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 E1, E2, E3, E4, E5, E6	
	Hypocorticism: chronic adrenal insufficiency; acute adrenal insufficiency. Pheochromocytoma. Adrenal gland incidents. /Lec/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4,	L1.1 E1, E2, E3, E4, E5, E6	
	Hypocorticism: chronic adrenal insufficiency; acute adrenal insufficiency. Pheochromocytoma. Adrenal gland incidents. /Practice/	10	4	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 E1, E2, E3, E4, E5, E6	
	Hypocorticism: chronic adrenal insufficiency; acute adrenal insufficiency. Pheochromocytoma. Adrenal gland incidents. /Self-study/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 E1, E2, E3, E4, E5, E6	
	Diseases of the hypothalamic-pituitary system: pituitary dwarfism; acromegaly and gigantism, diabetes insipidus. /Practice/	10	2	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L2.1 L3.1 E1, E2, E3, E4, E5, E6	
	Diseases of the hypothalamic-pituitary system: pituitary dwarfism; acromegaly and gigantism, diabetes insipidus. /Self-study/	10	2	PC-1.1, PC-1.2, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L2.1 L3.1 E1, E2, E3, E4, E5, E6	
	Control work	10	0	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L2.1 L3.1 E1, E2, E3, E4, E5, E6	
	Credit	10	0	PC-1.1, PC-1.2, PC-3.1, PC-3.2, PC-3.3, PC-3.4 PC-5.1, PC-5.2, PC-5.4, PC-8.2	L1.1 L2.1 L3.1 E1, E2, E3, E4, E5, E6	

5. ASSESSMENT TOOLS

5.1. Assessment tools

oral quiz, case-study, tests, case history of the disease, patient's clinical case study

6. COURSE (MODULE) RESOURCES

6.1. Recommended Literature

6.1.1. Core

	Authors	Title	Publish., year	Quantity
L1.1	Martynov A.I., Kopalava Z.D., Moiseev S.V	Internal diseases/ Volume 2	Moscow: GEOTAR-Media, 2022-616 p.Electronic resource	1

6.1.2. Supplementary				
L2.1	Dedov I.I. ; Melnichenko G.A. ; Fadeev V.V.	Endocrinology	Moscow: Litera, 2015-416 p. Electronic resource	1
6.1.3. Methodical developments				
	Authors	Title	Publish., year	Quantity
L3.1	Uryasev O. M.,Berstneva S. V.,Aksentiev S. B.	Diabetes mellitus type 1 and type 2: clinic, diagnosis, treatment: guide on discipline "endocrinology" for foreign students of general medicine faculty	Ryazan: RSMU, 2023. 102 p. Electronic resource	1
6.2. Internet resources				
Э1	ENDOCRINOLOGICAL SCIENTIFIC CENTER OF THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION -			
Э2	Educational Resource for Doctors Dia Academy - https://diaacademy.co.uk/			
Э3	«Clinical medicine for student» https://klinmedstud.ucoz.ru/			
Э4	Medicine portall http://www.med-edu.ru/			
Э5	Journal "Consilium medicum" - https://consilium.orscience.ru/en/			
Э6	FreeMedicalJournals - http://www.freemedicaljournals.com/			
6.3.1 Software				
6.3.1.1	Operational System Microsoft, applied programs pack Microsoft Office			
6.3.2 Information Referral systems				
6.3.2.1	E-data bases: http://www.garant.ru , http://www.consultant.ru/			
6.3.2.2	Student Consultant http://www.studmedlib.ru			
7. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE (MODULE)				
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	Library of practical problems			
7.4	The classroom for lectures is equipped with: a multimedia projector, a screen, a laptop, a stationary chalk board, typical educational furniture: tables, chairs.			
7.5	The classrooms have a material and technical base that ensures the conduct of all types of disciplinary and interdisciplinary training, practical and research work of students, provided for by the work program, and corresponding to the current sanitary and fire safety rules and regulations.			