

**Thematic plan of seminar-type classes
in the discipline
"Endocrinology"
for students of the 2021 year of admission
in the educational program
in the specialty 31.05.01 Medical Care,
direction (profile) Medical Care
(specialization)
full-time form of study
2025-2026 academic year**

№	Thematic blocks	Practical training within the thematic block	Hours (academic)
9 семестр			
1.	Diabetes mellitus1 (part 1). The etiology of type 1 and type 2 diabetes mellitus. Risk factors. Pathogenesis of clinical symptoms of diabetes mellitus.	RP	6
	Diabetes mellitus (part 2). Modern diagnostic criteria for diabetes mellitus. Differential diagnosis. Other types of diabetes mellitus. Glucosuria syndrome (renal diabetes, glucosuria of pregnant women).		
	Diabetes mellitus. Complications (part 1). Causes of acute complications of diabetes mellitus. Clinical picture of acute complications: hyperosmolar syndrome, ketoacidosis, lactic acidosis, and hypoglycemia. Differential diagnosis of diabetic comas. Pre-hospital care.2		
2.	Diabetes mellitus. Complications (part 2). Emergency treatment for diabetic ketoacidosis, hyperosmolar coma, lactic acidosis, and hypoglycemic coma.	RP	6
	Diabetes mellitus. Complications (part 3). Pathogenesis of microvascular and macrovascular complications. Classification of diabetic neuropathy. Diagnostic methods.2		
	Diabetes mellitus. Complications (part 4). Diabetic nephropathy. Classification, diagnosis, and treatment of CKD. Diabetic retinopathy. Classification, diagnosis, and doctor's tactics.		
3.	Diabetes mellitus. Complications (part 5). Diabetic macroangiopathy. Pathogenesis of macrovascular complications.	RP	6

	Clinical features of the course of coronary heart disease, atherosclerosis, and arterial hypertension in patients with diabetes mellitus.		
	Diabetes mellitus. Complications (part 6). Doctor's tactics. Diabetic foot syndrome as a manifestation of macroangiopathy.		
4.	Diabetes mellitus, treatment (part 1). Diet therapy.	RP	6
	Insulin therapy, classification of insulins. Insulin therapy regimens.		
	Diabetes mellitus, treatment (part 2). Classification of oral hypoglycemic drugs. Indications and contraindications for oral hypoglycemic drugs.		
5.	Thyroid diseases (part 1). Diffuse toxic goiter. Etiology of the disease. The role of autoimmune mechanisms in the pathogenesis of diffuse toxic goiter. Clinical manifestations of the disease. Diagnosis.	RP	6
	Thyroid diseases (part 2). Differential diagnosis of toxic goiter. Complications of diffuse toxic goiter. Clinic and treatment of thyrotoxic crisis. Endocrine ophthalmopathy.		
	Thyroid diseases (part 3). Treatment of diffuse toxic goiter. Treatment of endocrine ophthalmopathy.		
6.	Thyroid diseases (part 4). Modern classification of thyroiditis. Etiology, pathogenesis. Classification. Clinic.	RP	6
	Thyroid diseases (part 5). Diagnosis of thyroiditis. Treatment, prevention.		
	Thyroid diseases (part 6). Diseases and conditions associated with iodine deficiency. Physiological and pharmacodynamic doses of iodine. Their effect on the thyroid function: mechanism of action, indications for the use of physiological and pharmacodynamic doses of iodine, and side effects.		
7.	Thyroid diseases (part 7). Hypothyroidism. Etiology of the disease. Pathogenesis. Classification. Clinical manifestations of the disease. Diagnosis..	RP	6
	Thyroid diseases (part 8). Masks of hypothyroidism. Complications of hypothyroidism. Clinic and treatment of hypothyroid coma (myxedematous).		
	Thyroid diseases (part 9). Treatment of hypothyroidism.		

8.	Cushing's disease and syndrome. Diagnosis. Treatment (part 1). Etiology. Selection of patients for examination. Pathogenesis. Clinical, instrumental, and laboratory diagnosis of hypercorticism.	RP	6
	Cushing's disease and syndrome. Diagnosis. Treatment (part 2). Diagnosis of endogenous hypercorticism. Differential diagnosis of ACTH-dependent and ACTH-independent endogenous hypercorticism.		
	Cushing's disease and syndrome. Diagnosis. Treatment (part 3). Treatment and prevention. Neurosurgical and medical treatment.		
9.	Acute and chronic adrenal insufficiency (part 1). Adrenal insufficiency (acute and chronic, primary and secondary). Etiology. Classification. Pathogenesis. Clinical manifestations.	RP	6
	Acute and chronic adrenal insufficiency (part 2). Diagnosis, differential diagnosis, and treatment of the disease. Fundamentals of replacement therapy.		
	Addisonian crisis. Etiological causes. Clinical picture. Diagnosis. Treatment of an emergency condition.		
10.	Diseases of central origin (part 1). Diseases of the hypothalamic-pituitary system. Acromegaly. Etiology. Pathogenesis. Classification. Systemic manifestations. Diagnosis. Modern clinical guidelines for the treatment of diseases of the hypothalamic-pituitary system. Indications for surgical treatment.	RP	6
	Diseases of central origin (part 2). Diseases of the hypothalamic-pituitary system. Gigantism. Etiology. Pathogenesis. Classification. Systemic manifestations. Diagnostics. Modern clinical recommendations for treatment		
	Diseases of central origin (part 3). Somatotropic insufficiency. Nanism. Etiology. Pathogenesis. Clinic. Diagnostics. Treatment tactics for patients. Non-pharmacological treatment		
11.	Obesity. Clinic. Diagnostics. Treatment (part 1). Etiology. Risk factors. Pathogenetic mechanisms of development. Classification of obesity. Metabolic syndrome.	RP	6
	Obesity. Clinic. Diagnostics. Treatment (part 2). Methods of diagnostics and differential diagnostics of various types of obesity. Treatment. Non-pharmacological. Weight maintenance.		

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	Obesity. Clinic. Diagnostics. Treatment (part 3). Methods of diagnosis and differential diagnosis of various types of obesity. Treatment. Medication. Surgery.		
12.	Cohn's disease. Etiology. Pathogenesis. The clinical picture. Diagnosis and differential diagnosis. Treatment.	RP	6
	Pheochromocytoma. . Etiology. Pathogenesis. The clinical picture. Diagnosis and differential diagnosis. Treatment.		
	Vitamin D deficiency. Etiology. Epidemiology. Pathogenesis. Classification. Clinic. Laboratory instrumental diagnostics. Treatment. Prevention.		
Total			72

¹ – topic

² – essential content

³ – PP (practical training) RP – working with a patient

⁴ – one thematic block includes several classes, the duration of one class is 45 minutes, with a break between classes of at least 5 minutes

Considered at the meeting of the Department of Faculty Therapy, Minutes dated May 6, 2025, No. 11.

Head of the Department

A.R. Babaeva