
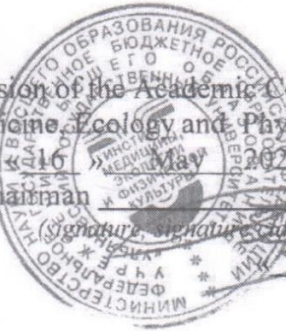


Ministry of science and high education RF Ulyanovsk State University	Form	
F-Educational plan of the discipline		

APPROVED
by the decision of the Academic Council of the Institute
of Medicine, Ecology and Physical Culture of USU
of «16» May 2024, Record No. 9/260
Chairman V. V. Mashin
(Signature, signature certification)
«16» May 2024



EDUCATIONAL PLAN

Discipline	Diabetology and emergency endocrinology
Faculty	Medical faculty of T.Z. Biktimirov
Name of department	Faculty Therapy
Course	5 course

Direction (specialty) _____ 31.05.01 "General Medicine" _____

Orientation (profile/specialty) not provided

Form of training _____ full-time _____

Date of introduction into the academic process at Ulyanovsk State University 01.09.2024

Revised at the Department meeting, Record No. ___ of ___ « ___ » 20__ г.



Revised at the Department meeting, Record No. ___ of ___ « ___ » 20__ г.


Revised at the Department meeting, Record No. ___ of ___ « ___ » 20__ г.

Revised at the Department meeting, Record No. ___ of ___ « ___ » 20__ г.

Information about the authors:

Initials	Abbreviation of the department	Degree, scientific rank
Slobodniuk N.A.	Faculty Therapy	Docent, c.m.s.

Agreed:	Agreed:
Head of department, developing discipline Faculty therapy	Head of the Graduate Department of Hospital Therapy
 / / <u>Ruzov V. I.</u> / «16» May 2024	 / <u>Visa-Khripunova M. A.</u> / «16» May 2024

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1. AIM AND OBJECTIVES OF THE DISCIPLINE

The aim of the discipline: the formation and development of students' holistic system of theoretical and practical knowledge and skills in diabetology and emergency endocrinology.

The objectives of mastering the discipline:

- know the etiology, pathogenesis, clinical symptoms of endocrinological diseases, their complications and urgent conditions;
- master the methods of examination, diagnosis and differential diagnosis of endocrinological diseases, their complications and urgent conditions;
- master the methods of providing assistance in urgent endocrinological conditions;
- to master the methodology of organizing and conducting medical examinations of patients with endocrine diseases in order to prevent their complications in a timely manner.

2. PLACE OF THE SUBJECT IN THE STRUCTURE OF GEP

The discipline "Diabetology and emergency endocrinology" refers to the discipline of choosing the variable part of block 1 of the specialty of the Curriculum of the specialty 31.05.01 "General medicine".


The study of this discipline is based on the knowledge, skills, competencies obtained in the course of mastering the following disciplines: Immunology, General Surgery. Introduction to the specialty, Pharmacology, Dentistry, Modern aspects of neurology, Otorhinolaryngology, Faculty surgery, Pediatrics, Faculty therapy, Neurology, Medical genetics, neurosurgery, Dermatovenereology, Clinical pathological anatomy, Occupational diseases, Endocrinology. Psychiatry, Medical Psychology, Clinical Psychology, Ophthalmology.

Subsequent disciplines: Infectious diseases, Traumatology, orthopedics, Modern problems of miscarriage, Forensic medicine, Topical issues of internal diseases, Obstetrics and gynecology, Anesthesiology, resuscitation and intensive care, Clinical pharmacology, Topical issues of hospital surgery, Topical issues of gynecology, Hospital therapy therapy, Phthisiology, Oncology and radiation therapy, Diagnosis and treatment of extrapulmonary tuberculosis, Palliative medicine, Current issues of HIV infection, Radiation diagnostics, Modern aspects of oncology, Surgical gastroenterology and endoscopy, Clinical electrocardiography, Ward nurse assistant, Procedural nurse assistant (Part 1), Assistant to a procedural nurse (Part 2), Clinical practice (Assistant to a hospital doctor), Practice to acquire professional skills and professional experience (Assistant to a doctor of an outpatient clinic weekends).

3. LIST OF EXPECTED RESULTS OF INSTRUCTION ON THE SUBJECT (UNIT), CORELATED WITH PLANNED RESULTS OF COMPLETING THE PROGRAM

The study of the subject "Diabetology and emergency endocrinology" within the completion of the educational program is directed towards the formation of the following general and professional competences in students:

Code and name of the general professional competence	Code and name of the indicator of achievement of general professional competence
UC-1 The student is able to carry out a critical analysis of problem situations on the basis of a systematic approach, to develop a	<p>To know: the student should know the methods of developing a strategy of actions to identify and solve a problem situation</p> <p>To be able to: the student should be able to apply the</p>

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strategy of actions	<p>methods of a systematic approach and critical analysis of problem situations</p> <p>To own to: the student must possess the methodology of systematic and critical analysis of problem situations</p>
PC-1 Readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention	<p>To know: the student should know the main causes of conditions requiring urgent medical intervention in obstetric and gynecological, therapeutic and surgical practice, their differential diagnosis, as well as the tactics of providing emergency medical care for such conditions</p> <p>To be able to: the student should be able to provide emergency medical care for conditions requiring urgent medical intervention in obstetric and gynecological, therapeutic and surgical practice</p> <p>To own to: the student must be proficient in the algorithms for the provision of emergency medical care in obstetric-gynecological, therapeutic and surgical practice in case of threatening conditions</p>
PC -3 Readiness to manage and treat patients with various nosological forms on an outpatient basis and in a day hospital	<p>To know: the student must know the criteria for the diagnosis of the most common diseases of internal organs. Features of the organization and scope of work of the outpatient clinic doctor, modern diagnostic capabilities of the outpatient service, methods of emergency measures, indications for planned hospitalization; features of treatment of diseases of internal organs in an outpatient setting, including in a day hospital</p> <p>To be able to: the student must be able to formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents; to develop an algorithm for the management of a patient's therapeutic profile in a polyclinic</p> <p>To own to: the student must be proficient in the algorithm for determining the tactics of managing a patient with a therapeutic pathology, conducting a differential diagnosis in a therapeutic pathology</p>

4.VOLUME OF THE SUBJECT

4.1. Volume of the subject in credit points (total): 2 credit points

4.2. On types of academic workload (in hours): - 72 hours

Type of academic work	Number of hours (form of education)	
	Total according to the plan	№ semester.
1	2	3
Work of students with a teacher	24/24*	24/24*
Classes:	24/24*	24/24*
lectures	-	-
practical classes and seminars	24/6*/24*	24/6*/24*

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lab classes (practical lessons)	-	-
Self-study work	48	48
Concurrent control (number and type: a test, a colloquium, a report)	A survey in the classroom, solving situational problems, testing, an interview on the test.	A survey in the classroom, solving situational problems, testing, an interview on the test.
Course paper	-	-
Types of intermediate attestation (examination, test)	credit	credit
Total number of hours on the subject	72 / 2 credit units of labor intensity	72 / 2 credit units of labor intensity

* If it is necessary to use partially or exclusively distance learning technologies in the educational process, it should be noted that the total number of hours (c.u.) set by the Department of discipline/specialty for each discipline/practice remains unchanged and is implemented in full. In this case, in the corresponding section of the educational program the total number of hours of work with students in accordance with the educational plan is allocated and the number of hours for conducting classes in a remote format using e-learning (online courses, lectures and seminars in videoconference mode, virtual practical classes, laboratory work in the form of virtual analogues, calculation and graphic works, individual tasks in the electronic information and educational environment, etc.) Training and industrial practice for all areas of discipline/specialties of all forms of training can be partially or fully implemented in a remote format.

4.3. Contents of the discipline (module). Distribution of hours on themes and kinds of study:

The form of training: full time

The name of sections and topics	Total	Types of training sessions.					Control
		lect.	pract. cl.	laboratory classes	inter active	independent work	
1	2	3	4	5	6	7	8
1. Differential diagnosis of hyperglycemia. Diagnosis and treatment of diabetes mellitus	10,5		2,5		1	8	Survey in the classroom, solving situational problems, testing
2. Diabetic retinopathy. Diabetic nephropathy. Diabetic neuropathy.	7,5		2,5			5	Survey in the classroom, solving situational problems, testing
3. Diabetic macroangiopathies. Diabetic foot syndrome. Diabetes mellitus and arterial hypertension	7,5		2,5			5	Survey in the classroom, solving situational problems, testing
4. Diabetes mellitus	7,5		2,5			5	Survey in the

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and pregnancy. Diabetes mellitus and surgical pathology							classroom, solving situational problems, testing
5. Emergency conditions in diabetes mellitus	7,5		2,5		1	5	Survey in the classroom, solving situational problems, testing
6. Differential diagnosis of com in diabetes mellitus	7,5		2,5		1	5	Survey in the classroom, solving situational problems, testing
7. Emergency conditions in diseases of the thyroid gland	8		3		1	5	Survey in the classroom, solving situational problems, testing
8. Emergency conditions in diseases of the adrenal glands	8		3		1	5	Survey in the classroom, solving situational problems, testing
9. Emergency conditions in case of violations of mineral metabolism.	8		3		1	5	Survey in the classroom, solving situational problems, testing, interview on the test
TOTAL	72		24		6	48	

5. COURSE CONTENT


Section 1. Diabetes mellitus.

Topic 1. Differential diagnosis of hyperglycemia. Diagnosis and treatment of diabetes mellitus. Etiology and pathogenesis of diabetes mellitus. Classification of diabetes mellitus. Clinic of diabetes mellitus. Diagnostic criteria and differential diagnosis of hyperglycemia. Differential diagnosis of types of diabetes mellitus. Treatment of diabetes mellitus, target levels of therapy. Diet therapy. Insulin therapy: characteristics of insulins, methods of insulin therapy, complications of insulin therapy. Hypoglycemic tablet drugs: mechanism of action, indications, contraindications, side effect. Indications for insulin therapy. Prevention of various types of diabetes mellitus.

Topic 2. Diabetic retinopathy. Diabetic nephropathy. Diabetic neuropathy. Classification of diabetic microangiopathy. Diabetic retinopathy, diabetic nephropathy, diabetic neuropathy. Pathogenesis. Classification. Clinical manifestations. Diagnostics. Principles of treatment. Prevention of microvascular complications.

Topic 3. Diabetic macroangiopathies. Diabetic foot syndrome. Diabetes mellitus and arterial hypertension. Microangiopathies. Classifications, clinical manifestations, diagnosis, treatment. The main diagnostic signs of a diabetic foot. Macroangiopathies: lower extremities, CHD, CHF, cerebrovascular diseases. Diabetic foot syndrome. Pathogenesis. Classifications, Clinical manifestations. Diagnostics. Treatment. Prevention of macrovascular complications. Principles of therapy of arterial hypertension in patients with diabetes mellitus.

Topic 4. Diabetes and pregnancy. Diabetes mellitus and surgical pathology. Gestational diabetes

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and manifest diabetes mellitus in pregnant women. Risk factors, risk to the mother and fetus. Etiopathogenesis. Diagnostic criteria. Principles of treatment; indications for the preservation of pregnancy and features of the management of patients with gestational and manifest diabetes mellitus during pregnancy planning, during pregnancy, during childbirth and lactation. The goals of diabetes mellitus therapy during surgical interventions. Principles of treatment, perioperative and postoperative management of patients with diabetes mellitus.

Topic 5. Emergency conditions in diabetes mellitus. Classification of acute complications of diabetes mellitus. Diabetic ketoacidosis. Ketoacidotic coma, etiopathogenesis, clinic, diagnosis, therapy. Hyperosmolar state, etiopathogenesis, clinic, diagnosis, therapy. Lactic acidemic coma, etiopathogenesis, clinic, diagnosis, therapy. Differential diagnosis of diabetic coma. Hypoglycemia. Hypoglycemic coma, etiopathogenesis, clinic, diagnosis, therapy. Principles of rehabilitation of patients with diabetes mellitus, taking into account the features of coma.

Topic 6. Differential diagnosis of coma in diabetes mellitus. Clinical manifestations of the most common comas of non-endocrine etiology. Cerebral coma. Exotoxic comas. Endotoxic comas. Violation of consciousness as a result of epilepsy. Differential diagnosis between acute complications of diabetes mellitus and comatose states of other etiology. Diagnosis of violations of the acid-base state.

Section 2. Diseases of the thyroid gland

Topic 7. Emergency conditions in diseases of the thyroid gland Thyrotoxic crisis: etiopathogenesis, clinic, diagnosis, differential diagnosis, emergency therapy. Hypothyroid coma. Reasons. Pathogenesis. Clinic, diagnostics. Differential diagnosis. Emergency therapy. Differential diagnosis of hypothyroid coma and thyrotoxic crisis.

Section 3. Diseases of the adrenal glands.

Topic 8. Emergency conditions in diseases of the adrenal glands.

Adrenal crisis: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, emergency therapy. Catecholamine crisis. Reasons. Clinic. Diagnostics. Differential diagnosis. Emergency therapy.

Section 4. Disorders of mineral metabolism.

Topic 9. Emergency conditions in cases of mineral metabolism disorders.


Hypocalcemic crisis, etiopathogenesis, clinic, diagnosis, differential diagnosis, emergency therapy. Hypercalcemic crisis: etiology, pathogenesis, clinical manifestations, diagnosis, differential diagnosis, emergency therapy. Differential diagnosis and criteria for the diagnosis of hypocalcemic and hypercalcemic crises. Strategy and tactics of patient management.

6.TOPICS OF PRACTICAL CLASSES AND SEMINAR (FOR DISCUSSING AND SELF-PREPARED OF STUDENTS)

Section 1. Diabetes mellitus.

Topic 1. Differential diagnosis of hyperglycemia. Diagnosis and treatment of diabetes mellitus
Questions on the topics of the section (for discussion at the lesson):

1. Etiology, pathogenesis, clinic of type 1 and 2 diabetes mellitus.
2. Classification of diabetes mellitus: diagnostic criteria for diabetes mellitus, disorders of fasting glycemia and carbohydrate tolerance.
3. Clinical, hormonal and immunological differences between different types of diabetes mellitus.
4. Risk factors for diabetes mellitus, diet therapy, physical activity.
5. Treatment of type 2 diabetes mellitus. Classification and duration of action of insulins, indications for insulin therapy.
6. Schemes of insulin therapy, calculation of insulin doses.
7. The mechanism of action, indications and contraindications of groups of tableted hypoglycemic

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drugs. Rational and irrational combinations.

8. Medical examination, prognosis, medical and social examination of patients with diabetes mellitus.

Topic 2. Diabetic retinopathy. Diabetic nephropathy. Diabetic neuropathy

Questions on the topics of the section (for discussion at the lesson):

1. Diabetic nephropathy: etiology, pathogenesis, classification, clinic, treatment, prevention.
2. Microalbuminuria, the meaning of its definition. Stages of chronic kidney disease.
3. Diabetic retinopathy: etiology, pathogenesis, classification, clinic, treatment, prevention.
4. Changes in retinal vessels at various stages of diabetic retinopathy.
5. Diabetic polyneuropathy: etiology, pathogenesis, classification, treatment, prevention.
6. Vegetative forms of diabetic neuropathy: diagnosis, treatment.

Topic 3. Diabetic macroangiopathies. Diabetic foot syndrome. Diabetes mellitus and arterial hypertension

Questions on the topics of the section (for discussion at the lesson):

1. Risk factors for the development of macrovascular complications in diabetes mellitus.
2. Diabetic angiopathy of the lower extremities: etiology, pathogenesis, classification, clinic, treatment, prevention.
3. Diabetic foot syndrome: etiology, pathogenesis, classification, clinic, treatment approaches, prevention.
4. Features of the course and treatment of coronary heart disease in patients with diabetes mellitus.
5. Acute coronary syndrome in diabetes mellitus, patient management tactics.
6. Features of the course and treatment of arterial hypertension in patients with diabetes mellitus.

Topic 4. Diabetes and pregnancy. Diabetes mellitus and surgical pathology

Questions on the topics of the section (for discussion at the lesson):

1. Criteria for gestational diabetes mellitus.
2. Criteria for manifest diabetes mellitus in a pregnant woman.
3. Tactics of delivery in gestational diabetes mellitus.
4. Features of the management of patients with gestational diabetes mellitus during pregnancy and the postpartum period.
5. Features of management, delivery of patients with manifest diabetes mellitus, tactics in the postpartum period.
6. Features of treatment of patients with diabetes mellitus depending on the volume of surgical intervention.
7. Management of patients in the perioperative period, the target level of glycemia.

Topic 5. Emergency conditions in diabetes mellitus


Questions on the topics of the section (for discussion at the lesson):

1. Hypoglycemic coma: etiology, pathogenesis, clinic, emergency therapy.
2. Hyperosmolar state: etiology, pathogenesis, clinic, emergency therapy.
3. Lactic acidemic coma: etiology, pathogenesis, clinic, emergency therapy.
4. Diabetic ketoacidotic coma: etiology, pathogenesis, clinic, emergency therapy.
5. Differential diagnosis of com in diabetes mellitus.
6. Prevention of emergency conditions in diabetes mellitus.

Topic 6. Differential diagnosis of com in diabetes mellitus

Questions on the topics of the section (for discussion at the lesson):

1. Clinical manifestations of cerebral coma.
2. Exotoxic comas (carbon monoxide poisoning): etiology, clinic, treatment.
3. Endotoxic comas (uremic): etiology, clinic, treatment.
4. Endotoxic comas (hepatic): etiology, clinic, treatment.

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5. Violation of consciousness as a result of epilepsy.
6. Differential diagnosis between comatose states of different etiology.

Section 2. Diseases of the thyroid gland

Topic 7. Emergency conditions in diseases of the thyroid gland

Questions on the topics of the section (for discussion at the lesson):

1. Etiology, pathogenesis, the main clinical symptoms of a thyrotoxic crisis.
2. Tactics of providing assistance in thyrotoxic crisis.
3. Etiology, pathogenesis, main clinical symptoms of hypothyroid coma.
4. Tactics of providing assistance in hypothyroid coma.
5. Differential diagnosis of thyrotoxic and hypothyroid coma.
6. Prognosis and prevention of thyrotoxic and hypothyroid coma.
7. Heart damage in patients with thyroid pathology.

Section 3. Diseases of the adrenal glands

Topic 8. Emergency conditions in diseases of the adrenal glands

Questions on the topics of the section (for discussion at the lesson):

1. Mechanisms of development of hypoadrenal and catecholamine crises.
2. Clinic of hypoadrenal and catecholamine crises.
3. Emergency therapy, prognosis and prevention of a hypoadrenal crisis.
4. Types and emergency therapy of catecholamine crisis.
5. Differential diagnosis of hypoadrenal and catecholamine crises.
6. ECG-signs of hypocalcemia and hyperkalemia.
7. Arterial hypertension in patients with adrenal diseases.

Section 4. Mineral metabolism disorders

Topic 9. Emergency conditions in cases of mineral metabolism disorders

Questions on the topics of the section (for discussion at the lesson):

1. Etiology and mechanisms of development of hypocalcemic crisis.
2. Symptoms of a hypocalcemic crisis.
3. Emergency therapy of hypocalcemic crisis
4. ECG-signs of hypocalcemia and hypercalcemia
5. Etiology, pathogenesis and symptoms of hypercalcemic crisis.
6. Emergency therapy for hypercalcemic crisis.
7. Laboratory and instrumental diagnostics of hypoparathyroidism - and hyperparathyroidism.

7.LABORATORY CLASSES


This type of work is not provided by the plane.

8.SUBJECTS OF COURSE PAPERS, TESTS, ESSAYS


This type of work is not provided by the plane.

9.QUESTIONS FOR CREDIT ON DISCIPLINE

Comp etence index	№	The formulation of the question
UC-1	1	Criteria for the diagnosis of manifest diabetes mellitus during pregnancy
UC-1	2	Diabetic retinopathy: etiology, pathogenesis, clinical picture, treatment
UC-1	3	Target levels of glycated hemoglobin in patients with diabetes mellitus
UC-1	4	Etiopathogenesis and clinical manifestations of microvascular complications of diabetes mellitus


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UC-1	5	Diabetic polyneuropathy: etiology, pathogenesis, clinical picture, treatment
UC-1	6	Etiopathogenesis and clinical manifestations of macrovascular complications of diabetes mellitus
UC-1	7	Differential diagnosis of hyperglycemic coma
UC-1	8	Clinical symptoms and differential diagnosis of hypoglycemic conditions
UC-1	9	Diabetic nephropathy: etiology, pathogenesis, clinical picture, treatment
UC-1	10	Features of the clinical picture, laboratory and instrumental diagnostics in exo - and endotoxic comas
UC-1	11	Differential diagnosis and clinical symptoms of gestational and manifest diabetes mellitus in a pregnant woman
UC-1	12	Criteria, clinical picture and features of gestational diabetes mellitus therapy
UC-1	13	Pheochromocytoma crisis. Clinical options, diagnosis, patient management
UC-1	14	Features of laboratory and instrumental diagnostics and management of patients with hyperparathyroid crisis
UC-1	15	Features of laboratory and instrumental diagnostics and management of patients with Addisonic crisis
UC-1	16	Diabetic coma: etiology, clinical picture, diagnosis
UC-1	17	Hyperosmolar coma: etiology, clinical picture, diagnosis
UC-1	18	Lactacidemic coma: etiology, clinical picture, diagnosis
UC-1	19	Differential diagnosis of thyrotoxic crisis and hypothyroid coma
UC-1	20	Clinical manifestations, management of patients with hypoparathyroidism
PC-1	21	Emergency treatment for hypoglycemic coma
PC-1	22	Emergency therapy for ketoacidotic coma
PC-1	23	Emergency treatment for hyperosmolar coma
PC-1	24	Emergency treatment for lactacidemic coma
PC-1	25	Emergency therapy for thyrotoxic crisis
PC-1	26	Emergency treatment for hypothyroid coma
PC-1	27	Emergency therapy for a hypoadrenal crisis
PC-1	28	Emergency therapy for pheochromocytoma crisis
PC-1	29	Emergency therapy for hypoparathyroid crisis
PC-1	30	Emergency therapy for hyperparathyroid crisis
PC-3	31	Classification of insulins by duration of action, indications for insulin therapy
PC-3	32	Groups of tableted hypoglycemic drugs: mechanism of action, indications, contraindications
PC-3	33	Tactics of treatment of microvascular complications of diabetes mellitus
PC-3	34	Tactics of treatment of macrovascular complications of diabetes mellitus
PC-3	35	Features of the therapy of arterial hypertension in patients with diabetes mellitus.
PC-3	36	Management of patients with gestational diabetes mellitus during pregnancy
PC-3	37	Management of patients with diabetes mellitus in the perioperative period
PC-3	38	Features of management of patients with diabetes mellitus during pregnancy, childbirth and lactation
PC-3	39	Management of patients with diabetes mellitus in the pre -, post- and perioperative period

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10.SELF-STUDY WORK OF STUDENTS

The name of the sections/ subject	Type of SSW	Total number of hours	Current control
Diabetes mellitus. Differential diagnosis of hyperglycemia. Diagnosis and treatment of diabetes mellitus	Study of educational material, preparation for passing the test	8	Survey in the classroom, solving situational problems.
Diabetic retinopathy. Diabetic nephropathy. Diabetic neuropathy	Study of educational material, preparation for passing the test	5	Survey in the classroom, solving situational problems.
Diabetic macroangiopathy. Diabetic foot syndrome. Diabetes mellitus and arterial hypertension.	Study of educational material, preparation for passing the test	5	Survey in the classroom, solving situational problems.
Diabetes mellitus and pregnancy. Diabetes mellitus and surgical pathology	Study of educational material, preparation for passing the test	5	Survey in the classroom, solving situational problems.
Emergency conditions in diabetes mellitus	Study of educational material, preparation for passing the test	5	Survey in the classroom, solving situational problems.
Differential diagnosis of com in diabetes mellitus	Study of educational material, preparation for passing the test	5	Survey in the classroom, solving situational problems.
Emergency conditions in diseases of the thyroid gland	Study of educational material, preparation for passing the test	5	Survey in the classroom, solving situational problems.
Emergency conditions in diseases of the adrenal glands	Study of educational material, preparation for passing the test	5	Survey in the classroom, solving situational problems.
Emergency conditions in cases of mineral metabolism disorders	Study of educational material, preparation for passing the test	5	Survey in the classroom, solving situational problems.

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11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

Диабетология и неотложная эндокринология

a) List of recommended literature

Core reading:

1. Symptoms and syndromes of endocrine diseases. Methods of examination and principles of treatment of patients with endocrine pathology P. 1 = Симптомы и синдромы эндокринных заболеваний. Методы обследования и принципы лечения больных с эндокринной патологией Ч. 1 : Учебное пособие / В. В. Антонян, А. А. Демидов, А. А. Воробьева и др. - Астрахань : Астраханский ГМУ, 2022. - 67 с. - ISBN 9785442406726. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/symptoms-and-syndromes-of-endocrine-diseases-methods-of-examination-and-principles-of-treatment-of-patients-with-endocrine-pathology-p-1-16139222/>

2. Uryasev O. M. Diabetes mellitus type 1 and type 2: clinic, diagnosis, treatment : guide on discipline "endocrinology" for foreign students of general medicine faculty / O. M. Uryasev, S. V. Berstneva, S. V. Aksentiev ; Uryasev O. M., Berstneva S. V., Aksentiev S. V. - Рязань : РязГМУ, 2023. - 102 с. - Библиогр.: доступна в карточке книги, на сайте ЭБС Лань. - Книга из коллекции РязГМУ - Медицина. - URL: <https://e.lanbook.com/book/352361>

Supplementary reading:

1 Diagnostics and treatment of internal diseases in outpatient department = Диагностика и лечение терапевтических заболеваний на амбулаторном этапе : пособие для студентов учреждений высшего образования, обучающихся по специальности 1-79 01 01 «Лечебное дело» : manual for students of higher education institutions studying in the specialty 1-79 01 01 / Е. Н. Кежун, Н. С. Слободская, Д. В. Пинко, К. В. Гончар. - Гродно : ГрГМУ, 2020. - 200 с. - ISBN 9789855953198. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/diagnostics-and-treatment-of-internal-diseases-in-outpatient-department-11950033/>

2. Внутренние болезни, эндокринология и физиотерапия = Internal diseases, endocrinology and physical medicine : manual : учебно-методическое пособие для студентов 4 и 5 курса, обучающихся по специальности «Лечебное дело», на английском языке-посреднике / А. А. Тарасов, Е. В. Калинина, А. Л. Емельянова, И. В. Лекарева. - Волгоград : ВолгГМУ, 2018. - 80 с. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/vnutrennie-bolezni-endokrinologiya-i-fizioterapiya-12448531/>

3. Сахарный диабет в таблицах и схемах = Diabetes mellitus in the tables and diagrams : учебное пособие / Т. Н. Панова, А. А. Демидов, О. Н. Дьякова, Е. М. Дьякова. - Астрахань : Астраханский ГМУ, 2017. - 72 с. - ISBN 9785442402186. - Текст : электронный // ЭБС "Букап" : [сайт]. - URL : <https://www.books-up.ru/ru/book/saharnyj-diabet-v-tablicah-i-shemah-11261456/>

Educational and methodical literature:

Slobodnyuk N. A.


Methodological recommendations for practical studies and independent work of students on the discipline «Diabetology and emergency endocrinology» for specialty 31.05.01 «General medicine» / N. A. Slobodnyuk; Ulyanovsk State University. - Ulyanovsk : UISU, 2022. - 28 p. - Неопубликованный ресурс; На англ. яз. - URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/11531>. - Режим доступа: ЭБС УлГУ. - Текст : электронный.

AGREED:

Leading specialist of the scientific library of ULSU: 
/Stadolnikova D.R.

b) software

SPS Consultant Plus
NEB of the Russian Federation
EBS IPRbooks
AIBS "MegaPro"
OS Microsoft Windows
"MoyOfis Standard"

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Профессиональные базы данных, информационно-справочные системы

1. Электронно-библиотечные системы:

1.1. Цифровой образовательный ресурс IPRsmart : электронно-библиотечная система : сайт / ООО Компания «Ай Пи Ар Медиа». - Саратов, [2024]. – URL: <http://www.iprbookshop.ru>. – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство «ЮРАЙТ». – Москва, [2024]. - URL: <https://urait.ru> . – Режим доступа: для зарегистрир. пользователей. - Текст : электронный.

1.3. База данных «Электронная библиотека технического ВУЗа (ЭБС «Консультант студента») : электронно-библиотечная система : сайт / ООО «Политехресурс». – Москва, [2024]. – URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.4. Консультант врача. Электронная медицинская библиотека : база данных : сайт / ООО «Высшая школа организации и управления здравоохранением-Комплексный медицинский консалтинг». – Москва, [2024]. – URL: <https://www.rosmedlib.ru>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.5. Большая медицинская библиотека : электронно-библиотечная система : сайт / ООО «Букап». – Томск, [2024]. – URL: <https://www.books-up.ru/ru/library/> . – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.6. ЭБС Лань : электронно-библиотечная система : сайт / ООО ЭБС «Лань». – Санкт-Петербург, [2024]. – URL: <https://e.lanbook.com>. – Режим доступа: для зарегистрир. пользователей. – Текст : электронный.

1.7. ЭБС Znanium.com : электронно-библиотечная система : сайт / ООО «Знаниум». - Москва, [2024]. - URL: <http://znanium.com> . – Режим доступа : для зарегистрир. пользователей. - Текст : электронный.

2. КонсультантПлюс [Электронный ресурс]: справочная правовая система. / ООО «Консультант Плюс» - Электрон. дан. - Москва : КонсультантПлюс, [2024].

3. eLIBRARY.RU: научная электронная библиотека : сайт / ООО «Научная Электронная Библиотека». – Москва, [2024]. – URL: <http://elibrary.ru>. – Режим доступа: для авториз. пользователей. – Текст : электронный

4. Федеральная государственная информационная система «Национальная электронная библиотека» : электронная библиотека : сайт / ФГБУ РГБ. – Москва, [2024]. – URL: <https://нэб.рф>. – Режим доступа : для пользователей научной библиотеки. – Текст : электронный.

5. Российское образование : федеральный портал / учредитель ФГАУ «ФИЦТО». – URL: <http://www.edu.ru>. – Текст : электронный.


6. Электронная библиотечная система УлГУ : модуль «Электронная библиотека» АБИС Мега-ПРО / ООО «Дата Экспресс». – URL: <http://lib.ulsu.ru/MegaPro/Web>. – Режим доступа : для пользователей научной библиотеки. – Текст : электронный.

Инженер ведущий



Щуренко Ю.В.

2024

Ministry of science and high education RF Ulyanovsk State University	Form	
F-Educational plan of the discipline		

12. MATERIAL AND TECHNICAL SUPPORT OF THE DISCIPLINE

Classrooms for lectures, seminars, for conducting current control and intermediate certification, group and individual consultations


The classrooms are equipped with specialized furniture, an educational board. Lecture halls are equipped with multimedia equipment to provide information to a large audience. The premises for independent work are equipped with computer equipment with the ability to connect to the Internet and provide access to an electronic information and educational environment, an electronic library system. The list of equipment used in the educational process is indicated in accordance with the information on the material and technical support and equipment of the educational process posted on the official website of the USU in the section "Information about the educational organization".

13. SPECIAL CONDITIONS FOR STUDENTS WITH DISABILITIES

Training students with disabilities is carried out taking into account the peculiarities of psychophysical development, individual capabilities and health of such students. Education of students with disabilities can be organized in conjunction with other students, and separately. If necessary, students from among persons with disabilities (at the request of the student) may be offered one of the following options for the perception of information, taking into account their individual psychophysical characteristics:

- for persons with visual impairment: in printed form in large print; in the form of an electronic document; in the form of an audio file (translation of educational materials into audio format); in printed form in Braille; individual consultations with the involvement of a tiflosurdoperevodchika; individual tasks and consultations.
- for persons with hearing impairment: in printed form; in the form of an electronic document; video materials with subtitles; individual consultations with the assistance of a sign language interpreter; individual tasks and consultations.
- for persons with musculoskeletal disorders: in printed form; in the form of an electronic document; in the form of an audio file; individual tasks and consultations.

If it is necessary to use partially/exclusively distance educational technologies in the educational process, the organization of the work of teaching staff with students with disabilities and disabilities is provided in an electronic information and educational environment, taking into account their individual psychophysical characteristics.

Developer  / docent Slobodnyuk N.A.
signature position full name