


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 USU Institute of Medicine,  
Ecology and Physical Culture  
June « 19 » 2019, № 10/210  
Chairman V.I. Midlenko  
*(signature, signature clarification)*  
« 19 » of June 2019.



### EDUCATIONAL PLAN

Discipline	Endocrinology
Faculty	Medical faculty of T.Z. Biktimirov
Name of department	Department of 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: 01.09.2019

Revised at the Department meeting, Record No. 11 of 26.06.2020



Revised at the Department meeting, Record No. 1 of 30.08.2021


Revised at the Department meeting, Record No. 9 of 29.04.2022

Revised at the Department meeting, Record No. 10 of 26.05.2023

Information about developers:

Full name	Abbreviation of Department	Academic, degree, title
Slobodniuk N.A.	Faculty Therapy	Docent, c.m.s.

AGREED	AGREED
Head of department, developing discipline Faculty therapy	Head of the graduating Department Hospital therapy
 / <u>Ruzov V.I.</u> <u>18 June 2019</u>	 / <u>Vise-Khripunova M.A.</u> <u>18 June 2019</u>

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### 1.GOALS AND OBJECTIVES OF DEVELOPMENT OF DISCIPLINE

The objectives of mastering the discipline:

teach students methods of diagnosis, detection, treatment and prevention of endocrinological diseases.

Tasks of mastering the discipline:

- master the examination technique, knowledge of the clinical symptoms of endocrinological diseases, their complications;
- master the methods of diagnosis and differential diagnosis of endocrinological diseases, their complications;
- master the methods of treatment for endocrinological diseases, their complications;
- master the technique of organization, planning and medical examination of patients with endocrinological diseases.


### 2.PLACE OF DISCIPLINE IN THE STRUCTURE OF THE BPEP

Endocrinology refers to the basic (compulsory) part of block 1 of the Working Curriculum of the specialty 31.05.01 “General Medicine”.


The study of endocrinology is preceded by normal and pathological anatomy, normal and pathological physiology, pedagogy, emergency medicine, public health and healthcare, biological chemistry, pharmacology and propaedeutics of internal diseases, faculty therapy and occupational diseases, faculty pediatrics. Knowledge, skills and competencies in these disciplines are determined by the requirements for their development in previous departments and the definition of input knowledge of endocrinology study is controlled.

### 3. LIST OF PLANNED RESULTS OF TRAINING IN THE DISCIPLINE RELATED TO THE PLANNED RESULTS OF THE DEVELOPMENT OF THE BASIC VOCATIONAL EDUCATIONAL PROGRAM


Item number	Competency Index	Competency Content (or parts thereof)	List of planned learning outcomes by discipline (module), correlated with indicators of achievement of competencies		
			To know	To be able to	To own to
1	GPC-8	Readiness for medical use of drugs and other substances and their combinations in solving professional problems	Classification and clinical and pharmacological characteristics of the main groups of drugs, pharmacodynamics and pharmacokinetics, side effects, indications and contraindications, rational combination of drugs	To analyze the effect of drugs on the totality of their pharmacological properties and drug interactions, write prescriptions for drugs, formulate indications for the chosen method taking into account etiologic and pathogenetic agents,	The skills of the use of drugs in the treatment, rehabilitation and prevention of various diseases and pathological conditions

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				substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions, determine the route of administration, mode and dose drugs, evaluate the effectiveness and safety of the treatment	
2.	PC-1	Ability and willingness to implement a set of measures aimed at maintaining and strengthening health and including the formation of a healthy lifestyle, preventing the onset and (or) spread of diseases, their early diagnosis, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating harmful effects on human health environmental factors	Prevalence, etiology, morphology, pathogenesis, diseases of the endocrine system, methods of clinical, laboratory and instrumental diagnosis of endocrine diseases, their early diagnosis, identifying the causes of their occurrence and eliminating their harmful effects on human health	Create a long-term plan of preventive measures for patients with endocrine diseases. Assign and evaluate the results of clinical, laboratory and instrumental diagnostic methods in patients with endocrine diseases	Methods of clinical research of the organ system of the endocrine system, methods for calculating and administering insulin, methods of prophylaxis and organization of dispensary monitoring of patients with endocrine diseases
3	PC-5	Willingness to collect and analyze patient complaints,	The diagnostic value of the changes identified during the clinical	Conduct a survey, physical examination of the patient;	Methods of a patient's clinical study, interpretation of


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		medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the presence or absence of a disease	study of the patient, the use of laboratory-instrumental diagnostic methods	interpret the results of laboratory and instrumental diagnostics and use in substantiating the clinical diagnosis	the results of additional research methods, an algorithm for substantiating a preliminary and clinical diagnosis
4	PC-6	The ability to determine in patients the main pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with ICD-10	The concepts of etiology, pathogenesis, morphogenesis, classification, the mechanism of the occurrence of clinical symptoms and syndromes, the clinical picture, course features, modern methods of clinical, laboratory and instrumental diagnostics, the formulation of the diagnosis in accordance with the International Statistical Classification of Diseases and possible complications and urgent conditions of endocrine diseases the system	Identify and justify clinical syndromes, taking into account the identified clinical symptoms and knowledge of the mechanisms of their development, formulate a clinical diagnosis. To choose and use in professional activity the possibilities of various methods of clinical and immunological examination and assessment of the functional state of the body for timely diagnosis of the disease and pathological processes. Draw up medical documentation. Interpret the results of	General clinical examination methods (interrogation, collection of objective and subjective information) in order to diagnose the main clinical syndromes in case of endocrine diseases and an algorithm for making a detailed clinical diagnosis for patients based on the international classification of diseases

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				laboratory and instrumental research methods, make a diagnosis according to the International Classification of Diseases on the basis of data from the main and additional research methods.	
5	PC-8	Ability to determine management tactics for patients with various nosological forms	The basic principles of treatment and indications for their use in diseases, complications and emergency conditions of the endocrinological profile.	Develop a treatment plan for the patient, taking into account the course of the disease, select an individual type of care for the treatment of the patient, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy for a particular patient with major pathological syndromes and emergency conditions, determine the route of administration, mode and dose of drugs, evaluate the effectiveness and safety of treatment	tactics of management and treatment, assistance, rehabilitation and prevention of various endocrinological diseases, their complications and emergency conditions

#### 4.TOTAL DIFFICULTY DIFFICULTY

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4.1. The volume of discipline in credits (total) - 2 credit units


4.2. The amount of discipline by type of academic work (in hours) - 72 hours

Type of study	Number of hours 72 (Full-time form of education)	
	Total according to plan	Including semesters
		5 course 9 semester
1	2	3
Contact work of students with the teacher	48	48
Auditory lessons:	48	48
lectures	12	12
practical and seminar classes	36	36
laborator work	-	-
Independent work	24	24
The form of current knowledge control and control of independent work: testing, counter. work, colloquium, abstract, etc. (at least 2 types)	Job interview, solving situational problems, testing, credit interview	Job interview, solving situational problems, testing, credit interview
Course work	-	-
Types of intermediate certification Interview (exam, test)	credit	credit
Total hours for discipline	72 / 2 credit units	72 / credit units

4.3 The content of the discipline (module.) Distribution of hours by topic and type of academic work:

Full-time form of education \_\_\_\_\_

The name of the discipline section	Total	lect ure s	pract ical exer cises	lab ora tor y wo rks	inter activ e	inde pend ent wor k of stud ents	The form of current control
Diabetes mellitus	24	4	12	-	2	8	Interview in the classroom, checking situational tasks, testing
Diffuse toxic goiter. Hypothyroidism Thyroiditis. Endemic and nodular goiter	12	2	6	-	1	4	Interview in the classroom, checking situational tasks, testing
Itsenko-Cushing's disease	12	2	6	-	1	4	Interview in the

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and syndrome							classroom, checking situational tasks, testing
Chronic adrenal insufficiency. Pheochromocytoma	12	2	6	-	1	4	Interview in the classroom, checking situational tasks, testing
Metabolic syndrome and obesity	12	2	6	-	1	4	Interview in the classroom, checking situational tasks, testing, credit interview
<b>TOTAL:</b>	<b>72</b>	<b>12</b>	<b>36</b>	<b>-</b>	<b>6</b>	<b>24</b>	

## 5. CONTENT OF DISCIPLINE

### Section 1. Diabetes

Theme 1. Fundamentals of endocrinology. Diabetes mellitus: etiology, pathogenesis, clinic, treatment. Methodology, purpose and objectives of the subject. The endocrine glands and their hormones. Diabetes. Definition Classification. Epidemiology. Etiology. Pathogenesis. Clinical syndromes of diabetes. Diagnostics. Treatment.

Theme 2. Diabetes mellitus: insulin therapy, acute and chronic complications. Classification of insulin. Insulin therapy. Coma for diabetes. Ketoacidotic coma, Lacticidemic coma. Hyperosmolar coma. Differential diagnosis com. Hypoglycemic coma. Microangiopathies and macroangiopathies. Diabetic nephropathy. Diabetic retinopathy. Diabetic neuropathy. "Diabetic" foot. Clinical examination. Prevention. Issues of medical and social expertise.

### Section 2. Thyroid Disease

Theme 3. Diffuse toxic goiter. Hypothyroidism Thyroiditis. Endemic and nodular goiter. The degree of enlargement of the thyroid gland. Diffuse toxic goiter. Hypothyroidism Thyroiditis. Endemic and nodular goiter. Epidemiology. Etiology. Pathogenesis. Clinical manifestations. Diagnostics. Complications Differential diagnosis. Treatment. Prevention Forecast. Clinical examination. Issues of medical and social expertise.


Thyrotoxic and hypothyroid coma. Etiology. Clinic. Urgent care.

### Section 3. Neuroendocrinology

Theme 4. Disease and Itsenko-Cushing's syndrome. Anatomy and physiology of the adrenal glands. Biological effects of adrenal hormones. Itsenko-Cushing's disease and syndrome. Etiology and pathogenesis. Clinic. Diagnostics. Features in children and adolescents. Diagnostic tests. Small dexamethasone sample. Large dexamethasone sample. Their interpretation. Differential diagnosis of the disease and Itsenko-Cushing's syndrome. Hypothalamic syndrome of puberty in adolescents. Treatment: surgical, radiation, medication. Flow. Prevention Forecast. Clinical examination. Issues of medical and social expertise.

### Section 4. Adrenal Diseases

Theme 5. Pheochromocytoma. Chronic adrenal insufficiency. Chronic adrenal insufficiency. Etiology and pathogenesis. Clinic. Diagnostics. Differential diagnosis. Treatment. Stress treatment. Flow. Forecast. MSEC Issues. Acute adrenal insufficiency. Etiology. Clinic. Urgent care. Biological effects of catecholamines. Pheochromocytoma. Etiology. Pathogenesis. Clinical options Diagnostics. Treatment. Features in children and adolescents. Prevention Forecast. Clinical examination. Issues of medical and social expertise.

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#### **Section 4. Metabolic Syndrome and Obesity**

Theme 6. Metabolic syndrome and obesity. Definition of obesity and metabolic syndrome. The classification of obesity. The epidemiology of obesity in an adult patient, children and adolescents. Etiology. Pathogenesis, clinic. Complications Obesity treatment. Features in children and adolescents. Diet therapy. Prevention Drug therapy. Surgery. Prevention Forecast. Clinical examination. Issues of medical and social expertise.

### **6. TOPICS OF PRACTICAL AND SEMINAR LESSONS**

#### **6.1. Themes of practical and seminar classes**

##### **Section 1. Diabetes**

###### **Theme 1. Diabetes mellitus**

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

1. Definition and classification of diabetes;
2. Etiology and pathogenesis of type 1 diabetes mellitus, risk factors for its development;
3. Etiology and pathogenesis of type 2 diabetes mellitus, risk factors for development and prevention;
4. Criteria for diabetes, biological effects of insulin;
5. Differential diagnosis of diabetes mellitus type 1 and 2;
6. Atypical forms of diabetes (diabetes mellitus type Mody, LADA);
7. Prevention, clinical examination, issues of medical and social expertise in diabetes.
8. The mechanism of action of groups of sugar-lowering tablets;
9. Indications and contraindications for groups of sugar-lowering tablets.

###### **Theme 2. Diabetes mellitus**

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

1. Classification and duration of action of basal insulin;
2. Classification and duration of action of prandial insulin;
3. Hypoglycemic coma: etiology, pathogenesis, clinical features, treatment.
4. Ketoacidotic coma: etiology, pathogenesis, clinic, treatment.
5. Hyperosmolar coma: etiology, pathogenesis, clinic, treatment.
6. Lacticidemic coma +: etiology, pathogenesis, clinical features, treatment.
7. Differential diagnosis of coma in diabetes.
8. Classification and clinic of microvascular complications of diabetes;
9. Classification and clinic of microvascular complications of diabetes.


##### **Section 2. Thyroid disease**

###### **Theme 3. Diffuse toxic goiter. Hypothyroidism Thyroiditis. Endemic and nodular goiter**

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

1. Biological effects of thyroid hormones, hormonal regulation and degree of thyroid enlargement.
2. Diffuse toxic goiter. Etiology. Pathogenesis. Clinic. Diagnostics. Treatment;
2. Hypothyroidism. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment;
3. Thyroiditis. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment;
4. Diffuse goiter. Etiology. Pathogenesis. Clinic. Diagnostics. Treatment;
5. Nodular goiter. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Treatment;
6. Thyrotoxic coma. Etiology. Clinic. Treatment. Prevention
7. Hypothyroid coma. Etiology. Clinic. Treatment. Prevention
8. Diagnosis and differential diagnosis of thyroid diseases;
9. Prevention, clinical examination, issues of medical and social expertise in diseases of the thyroid gland.



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### **Section 3. Neuroendocrinology**

#### **Theme 4. Disease and Itsenko-Cushing's syndrome.**

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

1. Biological effects of pituitary hormones.
2. Hormonal regulation of hormones.
3. Etiology, pathogenesis of the disease and Itsenko-Cushing's syndrome;
4. Features of the clinic of the disease and Itsenko-Cushing's syndrome;
5. Laboratory diagnosis of the disease and Itsenko-Cushing's syndrome;
6. Diagnosis and differential diagnosis of the disease and Itsenko-Cushing's syndrome;
7. Large and small dexamethasone samples;
8. The principles of treatment of the disease and Itsenko-Cushing's syndrome;
9. Prevention, clinical examination, medical and social examination for the disease and Itsenko-Cushing's syndrome.

### **Section 4. Adrenal Diseases**

#### **Theme 5. Pheochromocytoma. Chronic adrenal insufficiency.**

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

1. Biological effects of hormones of the adrenal cortex and catecholamines.
2. Pheochromocytoma. Etiology. Pathogenesis. Clinic. Diagnostics. Treatment;
3. Classification of pheochromocytoma and clinical manifestations of pheochromocytoma;
4. Chronic adrenal insufficiency. Etiology. Pathogenesis. Clinic. Diagnostics. Treatment;
5. Differential diagnosis of primary and secondary adrenal insufficiency;
6. Differential diagnosis of pheochromocytoma and chronic primary adrenal insufficiency;
7. Hypoadrenal crisis. Etiology. Clinic. Treatment. Prevention
8. Catecholamine crisis. Etiology. Clinic. Treatment. Prevention
9. Prevention, clinical examination, medical and social examination of pheochromocytoma and chronic adrenal insufficiency.

### **Section 4. Metabolic Syndrome and Obesity**

#### **Theme 6. Metabolic syndrome and obesity**

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

1. Definition, etiology of obesity;
2. Risk factors for obesity and metabolic syndrome;
3. The pathogenesis of obesity;
4. Classification of obesity;
5. Clinical symptoms characteristic of exogenously constitutional obesity;
6. Criteria for metabolic syndrome;
7. The principles of treatment of obesity and metabolic syndrome;
8. Complications and prognosis of obesity;
9. Prevention, clinical examination, medical and social examination of obesity and metabolic syndrome.


### **7. LABORATORY WORKS, PRACTICES**

This type of work is not provided by the plane.


### **8. TOPICS OF COURSE, CONTROL WORKS, ABSTRACTS**

This type of work is not provided by the plane.

### **9. LIST OF QUESTIONS TO THE CREDIT**

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Competency Index	№ tasks	The formulation of the question
GPC-8	1	The mechanism of action of groups of tablets of sugar-lowering drugs
GPC-8	2	Classification, effects of action and indications for insulin therapy
GPC-8	3	Emergency therapy and diagnosis of hypoglycemic conditions
GPC-8	4	Features of diagnosis and emergency treatment of diabetic coma
GPC-8	5	Features of the treatment of the disease and Itsenko-Cushing's syndrome
GPC-8	6	Thyroid hormones and thyreostatic drugs: indications, contraindications, features of use.
PC-1	7	Risk factors, prevention, medical and social expertise of diabetes mellitus
PC-1	8	Risk factors, prevention, clinical examination, medical and social expertise of diffuse toxic goiter
PC-1	9	Risk factors, prevention, clinical examination, medical and social expertise of hypothyroidism
PC-1	10	Risk factors, prophylaxis, clinical examination, medical and social expertise of Itsenko-Cushing's disease
PC-1	11	Risk factors, prophylaxis, clinical examination, medical and social expertise of chronic adrenal insufficiency
PC-1	12	Risk factors, prevention, clinical examination, medical and social expertise of obesity and metabolic syndrome
PC-5	13	Diagnosis of chronic complications of diabetes mellitus
PC-5	14	Diagnosis of various types of diabetes
PC-5	15	Differential diagnosis of hyperglycemic com
PC-5	16	Differential diagnosis of the disease and Itsenko-Cushing's syndrome
PC-5	17	Hormonal, laboratory, instrumental diagnosis of thyroiditis
PC-5	18	Differential diagnosis of diffuse toxic goiter and hypothyroidism
PC-5	19	Diagnosis and clinical manifestations of pheochromocytoma
PC-5	20	Differential diagnosis of primary and secondary adrenal insufficiency
PC-5	21	Metabolic Syndrome Criteria
PC-6	22	Etiology, clinical manifestations of hypoglycemic coma
PC-6	23	Clinical manifestations of primary adrenal insufficiency
PC-6	24	Clinical symptoms characteristic of exogenous- constitutional obesity
PC-6	25	Clinical symptoms and differential diagnosis of hypoglycemic conditions
PC-6	26	Features of laboratory, instrumental diagnosis and treatment of chronic complications of diabetes
PC-6	27	Classification, clinical manifestations of obesity
PC-8	28	Features of laboratory and instrumental diagnostics, clinics for hypo- and hyperparathyroid crisis
PC-8	29	Laboratory differential diagnosis of hyperglycemic com
PC-8	30	Clinical manifestations and diagnosis and treatment of autoimmune thyroiditis
PC-8	31	Management of patients with diffuse and nodular goiter
PC-8	32	Management of patients with diabetes with lacticidemic coma
PC-8	33	Features of management of patients with obesity and metabolic syndrome
PC-8	34	Management of patients with diabetes with hyperosmolar coma
PC-8	35	Diagnosis and management of patients with atypical forms of diabetes (diabetes mellitus type Mody, LADA)
PC-8	36	Emergency care tactics for pheochromocytoma crisis


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## 10.INDEPENDENT WORK OF TRAINERS

Full-time form of education \_\_\_\_\_

Name of sections and topics	Type of independent work	Volume in hours	Control form
Diabetes mellitus	Study material set-up preparation	8	Interview in the lesson, checking situational tasks.
Diabetes mellitus	Study material set-up preparation	4	Interview in the lesson, checking situational tasks.
Diffuse toxic goiter. Hypothyroidism. Thyroiditis. Endemic and nodular goiter.	Study material set-up preparation	4	Interview in the lesson, checking situational tasks.
Itsenko-Cushing's disease and syndrome.	Study material set-up preparation	4	Interview in the lesson, checking situational tasks.
Pheochromocytoma. Chronic adrenal insufficiency.	Study material set-up preparation	4	Interview in the lesson, checking situational tasks
Metabolic syndrome and obesity.	Study material set-up preparation	4	Interview in the lesson, checking situational tasks

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## 11. EDUCATIONAL AND METHODOLOGICAL AND INFORMATION SUPPORT OF DISCIPLINE

### a) List of recommended literature

#### Primary:

1. Ametov AS, Endocrinology [Electronic resource] / AS. Ametov, S.B. Shustov, Yu.Sh. Halimov, - M.: GEOTAR-Media, 2015.-- 352 p. - ISBN 978-5-9704-3613-4 - Access mode: <http://www.studentlibrary.ru/book/ISBN9785970436134.html>
2. Dedov II, Endocrinology [Electronic resource]: textbook / II Dedov, GA Melnichenko, VV Fadeev - M.: Litterra, 2015. - 416 p. - ISBN 978-5-4235-0159-4 - Access mode: <http://www.studentlibrary.ru/book/ISBN9785423501594.html>
3. Mkrtumyan AM, Emergency endocrinology [Electronic resource] / Mkrtumyan AM, Nelaeva AA. - M.: GEOTAR-Media, 2010. -- 128 p. (Series "Library of a specialist doctor") - ISBN 978-5-9704-1836-9 - Access mode: <http://www.studentlibrary.ru/book/ISBN9785970418369.html>
4. Harrison`s Endocrinology by Jameson, J. Larry, 2010. <https://www.pdfdrive.com/harrison-endocrinology-e34584578.html>

#### Additional literature:


1. Grandfather II, Pediatric endocrinology. Atlas [Electronic resource] / ed. I.I.Dedova, V.A. Peterkova. - M.: GEOTAR-Media, 2016. -- 240 p. - ISBN 978-5-9704-3614-1 - Access mode: <http://www.studentlibrary.ru/book/ISBN9785970436141.html>
2. Kukes V.G., Medical diagnostic methods [Electronic resource]: study guide / Kukes V.G., Marinina V.F. et al. - M.: GEOTAR-Media, 2006. - 720 p. - ISBN 5-9704-0262-1 - Access mode: <http://www.studentlibrary.ru/book/ISBN5970402621.html>
3. Order of the Ministry of Health of Russia dated 09.11.2012 N 872H "On approval of the standard of primary health care for thyrotoxicosis" (Registered in the Ministry of Justice of Russia on 06.03.2013 N 27537) - [http://www.consultant.ru/document/cons\\_doc\\_LAW\\_144463/](http://www.consultant.ru/document/cons_doc_LAW_144463/)

#### Educational-methodical:

1. Hormones and hormonal drugs: textbook. Method. manual for universities / S. M. Napalkova [et al.]; ULSU, IMEiFK. - Ulyanovsk: ULSU, 2014. -- 120 s. - URL ^ <http://10.2.96.134/Text/Napalkova2014.pdf>
2. Slobodnyuk N. A. Methodological recommendations for practical training and independent work of residents in the discipline "Endocrinology": a methodological manual / N. A. Slobodnyuk, M. V. Frolova; Ulyanovsk State University, Institute of Medicine, Ecology and Physical Culture. - Ulyanovsk : ULSU, 2019. - Screen title; In English. lang .; Unpublished resource. - Electron. text data. (1 file: 730 Kb). - Text: electronic. <http://lib.ulsu.ru/MegaPro/Download/MObject/4903>

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Chief librarian of the scientific library of ULSU  / Polina N. Yu.

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## b) Software

SPS Consultant Plus

NEB RF

EBS IPRBooks

AIBS "MegaPro"

Microsoft Windows OS

"MyOffice Standard"

## c) Professional databases, information and reference systems

### 1. Electronic library systems:

1.1. **IPRbooks** [Electronic resource]: electronic library system / group of companies IP Air Media. - The electron. Dan. - Saratov, [2019]. - Access mode: <http://www.iprbookshop.ru>.

1.2. **URIGHT** [Electronic resource]: electronic library system / LLC Electronic publishing house URIGHT. - The electron. Dan. - Moscow, [2019]. - Access mode: <https://www.biblio-online.ru>.

1.3. **Student Consultant** [Electronic Resource]: Electronic Library System / Polytechresurs LLC. - The electron. Dan. - Moscow, [2019]. - Access mode: <http://www.studentlibrary.ru/pages/catalogue.html>.

2. **ConsultantPlus** [Electronic resource]: reference legal system. / Consultant Plus Company - Electron. Dan. - Moscow: Consultant Plus, [2019].

3. **Database of periodicals** [Electronic resource]: electronic journals / OOO IVIS. - The electron. Dan. - Moscow, [2019]. - Access mode: <https://dlib.eastview.com/browse/udb/12>.

4. **National Digital Library** [Electronic resource]: electronic library. - The electron. Dan. - Moscow, [2019]. - Access mode: <https://neb.rf>.

5. **Digital library of dissertations of the RSL** [Electronic resource]: electronic library / FSBI RSL. - The electron. Dan. - Moscow, [2019]. - Access mode: <https://dvs.rsl.ru>.

### 6. Federal information and educational portals:

6.1. Information system Single window of access to educational resources. Access Mode: <http://window.edu.ru>

6.2. **Federal portal Russian education**. Access Mode: <http://www.edu.ru>

7. Educational resources of UISU:

7.1. Electronic library of UISU. Access Mode: <http://lib.ulsu.ru/MegaPro/Web>


7.2. Educational portal of UISU. Access Mode: <http://edu.ulsu.ru>

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Technician WITit ULSU



/ Borodulina Yu.S.

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## 12. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE

The auditoriums are equipped with specialized furniture, a training board. Lecture rooms are equipped with multimedia equipment to provide information to a large audience. 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 UISU in the section "Information about the educational organization".


## 13. SPECIAL CONDITIONS FOR STUDENTS WITH DISABLED HEALTH OPPORTUNITIES

If necessary, students from among persons with disabilities (upon application) may be offered one of the following the following options for the perception of information, taking into account their individual psychophysical features:





- for persons with visual impairments: in printed form with an enlarged font; 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 surdotranslator; individual assignments and consultations;
- for persons with hearing impairment: in printed form; in electronic form documents; video materials with subtitles; individual consultations with a sign language interpreter; individual tasks and consultations;
- for persons with disorders of the musculoskeletal system: in printed form; in the form of an electronic document; in the form of an audio file; individual tasks and consultations.

Developer   
signature


docent Slobodnyuk N.A.  
position name

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**LIST OF CHANGES of 1  
Educational plan of discipline "Endocrinology"  
Speciality 31.05.01. «General medicine»**

№	Content of the change or a link to the attached text of the	Full name of the head of the Department developing the discipline	Signature	Date
1	Introduction of changes to item A) 4.2 On types of academic workload (in hours)p. " Volume of the subject" with the design of of Appendix 1	Ruzov V.I.		26.06.2020
2	Introduction of changes to item A). a) List of recommended literature p. 11 "Educational, methodological and informational support of the discipline" with the design of of Appendix 2	Ruzov V.I.		26.06.2020
3	Introduction of changes to item A) c) Professional databases, directory and search systems p. 11 "Educational-methodological and informational support of the discipline" with the design of of Appendix 3	Ruzov V.I.		26.06.2020
4	Introduction of changes to item 13 "Special conditions for students with disabilities" with the design of of Appendix 4	Ruzov V.I.		26.06.2020




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## Appendix 1

### 4.2 On types of academic workload (in hours):

Type of academic work	Number of hours 72	
	Total according to plan	Including on semesters
		5 course A semester
1	2	3
Work of students with a teacher	48/48*	48/48*
Classes:	48/48*	48/48*
Lectures	12/12*	12/12*
practical classes and seminars	36/6*/36*	36/6*/36*
lab classes (practical lessons)	-	-
Self-study work	24	24
Concurrent control (number and type: a test, a colloquium, a report)	Job interview, solving situational problems, testing, credit interview	Job interview, solving situational problems, testing, credit interview
Course paper	-	-
Types of intermediate attestation (examination, test)	credit	credit
Total number of hours on the subject	72 / 2 credit units	72 / credit units

\* 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.

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## Appendix 2

### 11. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE

#### a) List of recommended literature

##### Main:

1.Аметов А.С., Эндокринология [Электронный ресурс] / А.С. Аметов, С.Б. Шустов, Ю.Ш. Халимов, - М. : ГЭОТАР-Медиа, 2016. - 352 с. - ISBN 978-5-9704-3613-4 - Режим доступа: <http://www.studentlibrary.ru/book/ISBN9785970436134.html>

2.Дедов И.И., Эндокринология [Электронный ресурс] : учебник / И. И. Дедов, Г. А. Мельниченко, В. В. Фадеев - М. : Литтерра, 2015. - 416 с. - ISBN 978-5-4235-0159-4 - Режим доступа: <http://www.studentlibrary.ru/book/ISBN9785423501594.html>

3. Мкртумян А.М. Неотложная эндокринология / А.М.Мкртумян, А.А. Нелаева, - 2-е изд. : испр. и доп. – Москва : ГЭОТАР-Медиа, 2019. – 128 с. ДОП. – 128 с. – ISBN 978-5 9704 5615 6. – Текст : электронный // URL :

<https://www.rosmedlib.ru/book/ISBN9785970456156.html>

##### Additional literature:

1.Дедов И.И., Детская эндокринология. Атлас [Электронный ресурс] / под ред. И. И. Дедова, В. А. Петерковой. - М. : ГЭОТАР-Медиа, 2016. - 240 с. - ISBN 978-5-9704-3614-1 - Режим доступа: <http://www.studentlibrary.ru/book/ISBN9785970436141.html>

2. Дедов, И. И. Эндокринология : национальное руководство / под ред. Дедова И. И. , Мельниченко Г. А. - 2-е изд. , перераб. и доп. - Москва : ГЭОТАР-Медиа, 2019. - 1112 с. - ISBN 978-5-9704-5083-3. - Текст : электронный // URL : <https://www.rosmedlib.ru/book/ISBN9785970450833.html>

3. Сахарный диабет [Электронный ресурс] : научно-практический журнал / Национальный медицинский исследовательский центр эндокринологии; Российская ассоциация эндокринологов. - Москва, 2019. - ISSN 2072-0378.-URL: <https://dlib.eastview.com/browse/udb/12>


4.Гормоны и гормональные препараты : учеб.-метод. пособие по фармакологии для вузов / С. М. Напалкова, Т. П. Генинг, Т. В. Абакумова [и др.]; УлГУ, ИМЭиФК. - Ульяновск : УлГУ, 2014. - Загл. с экрана; Имеется печ. аналог. - Библиогр.: с. 119-120. - Электрон. текстовые дан. (1 файл : 3,69 Мб). - Текст : электронный.- <http://lib.ulsu.ru/MegaPro/Download/MObject/487>

##### Educational-methodical:

1.Slobodnyuk N. A. Methodological recommendations for practical training and independent work of residents in the discipline "Endocrinology": a methodological manual / N. A. Slobodnyuk, M. V. Frolova; Ulyanovsk State University, Institute of Medicine, Ecology and Physical Culture. - Ulyanovsk : UISU, 2019. - Загл. с экрана; На англ. яз.; Неопубликованный ресурс. - Электрон. текстовые дан. (1 файл : 730 Кб). - Текст : электронный. <http://lib.ulsu.ru/MegaPro/Download/MObject/4903>

AGREED:

Chief librarian of the scientific library of ULSU  / Polina N.Yu.

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## 11. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE

### c) Professional databases, information and reference systems

#### 1. Electronic library systems:

1.1. IPRbooks [Electronic resource]: electronic library system / group of companies IPR Media. - Electron. Dan. - Saratov, [2020]. - Access mode: <http://www.iprbookshop.ru>.

1.2. YURAYT [Electronic resource]: electronic library system / LLC Electronic publishing house YURAYT. - Electron. Dan. - Moscow, [2020]. - Access mode: <https://www.biblio-online.ru>.

1.3. Student consultant [Electronic resource]: electronic library system / Polytekhresurs LLC. - Electron. Dan. - Moscow, [2020]. - Access mode: <http://www.studentlibrary.ru/pages/catalogue.html>.

1.4. Lan [Electronic resource]: electronic library system / LLC EBS Lan. - Electron. Dan. - St. Petersburg, [2020]. - Access mode: <https://e.lanbook.com>.

1.5. Znaniy.com [Electronic resource]: electronic library system / Znaniy LLC. - Electron. Dan. - Moscow, [2020]. - Access mode: <http://znaniy.com>.

1.6. Clinical Collection: collection for medical universities, clinics, medical libraries // EBSCOhost: [portal]. - URL: <http://web.a.ebscohost.com/ehost/search/advanced?vid=1&sid=e3ddfb99-a1a7-46dd-a6eb-2185f3e0876a%40sessionmgr4008>. - Access mode: for authorization. users. - Text: electronic.

2. **ConsultantPlus** [Electronic resource]: reference legal system. / Company "Consultant Plus" - Electron. Dan. - Moscow: ConsultantPlus, [2020].

#### 3. Database of periodicals:

3.1 Database of periodicals [Electronic resource]: electronic journals / LLC IVIS. - Electron. Dan. - Moscow, [2020]. - Access mode: <https://dlib.eastview.com/browse/udb/12>.


3.2. eLIBRARY.RU: scientific electronic library: site / Scientific Electronic Library LLC. - Moscow, [2020]. - URL: <http://elibrary.ru>. - Access mode: for authorization. users. - Text: electronic

3.3. "Grebennikon": electronic library / ID Grebennikov. - Moscow, [2020]. - URL: <https://id2.action-media.ru/Personal/Products>. - Access mode: for authorization. users. - Text: electronic.

4. **National Electronic Library** [Electronic resource]: electronic library. - Electron. Dan. - Moscow, [2020]. - Access mode: <https://нэб.рф>.

5. Electronic library of dissertations of the RSL [Electronic resource]: electronic library / FGBU RSL. - Electron. Dan. - Moscow, [2020]. - Access mode: <https://dvs.rsl.ru>.

5. **SMART Imagebase** // EBSCOhost: [portal]. - URL: <https://ebsco.smartimagebase.com/?TOKEN=EBSCO-1a2ff8c55aa76d8229047223a7d6dc9c&custid=s6895741>. - Access mode: for authorization. users. - Image: electronic.

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### 6. Federal information and educational portals:

6.1. Single window of access to educational resources: federal portal / founder of FGAOU DPO TsRGOP and IT. - URL: <http://window.edu.ru/>- Text: electronic.

6.2. Russian education: federal portal / founder of FGAOU DPO TsRGOP and IT. - URL: <http://www.edu.ru>. - Text: electronic.

### 7. Educational resources of ULSU:

7.1. Electronic library of ULSU: module ABIS Mega-PRO / LLC "Data Express". - URL: <http://lib.ulsu.ru/MegaPro/Web>. - Access mode: for users of the scientific library. - Text: electronic.


7.2. ULSU educational portal. - URL: <http://edu.ulsu.ru>- Access mode: for register. users. - Text: electronic.

AGREED:

Technician WITiT ULSU



/ Borodulina Yu.S.

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F-Educational plan of the discipline		


## Appendix 4

### 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 partly distance educational technologies in the educational process, the organization of work with students with disabilities and disabled people is provided in the electronic information and educational environment, taking into account their individual psychophysical characteristics.

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**LIST OF CHANGES of 2**  
**Educational plan of discipline "Endocrinology"**  
**Speciality 31.05.01. «General medicine»**


№	Content of the change or a link to the attached text of the	Full name of the head of the Department developing the discipline	Signature	Date
1	Appendix 1. Introduction of changes to item 3. " List of expected results of instruction the subject (unit), correlated with planned results of completing the program" with the design of appendix	Ruzov V.I.		30.08.2021
2	Appendix 2. Introduction of changes to item A) List of recommended literature item 11 "Educational-methodological and information support of the discipline" with the design of appendix	Ruzov V.I.		30.08.2021
3	Appendix 3. Introduction of changes to item C) Professional databases, directory and search systems item 11 "Educational-methodological and information support of the discipline" with the design of appendix	Ruzov V.I.		30.08.2021

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Appendix 1


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

Code and name of the general professional competence	Code and name of the indicator of achievement of general professional competence
GPC -7 The ability to prescribe treatment and monitor its effectiveness and safety	<p><b>To know:</b> The student must know the classification and main characteristics of medicines, pharmacodynamics and pharmacokinetics indications and contraindications for the use of medicines, side effects; general principles of prescribing and composing prescription prescriptions of medicines; treatment methods and indications for their use; the mechanism of therapeutic action of physical therapy and physiotherapy, indications and contraindications to their appointment, features of their implementation; types and methods of modern general anesthesia (mask, endotracheal, intravenous), prevention of postoperative pulmonary complications, - clinical and pharmacological characteristics of the main groups of drugs and rational choice of specific drugs in the treatment of major pathological syndromes of diseases and emergency conditions in patients, including the basics of anti-doping legislation</p> <p><b>To be able to:</b> The student should be able to use physical, chemical and biological equipment; classify chemical compounds based on their structural formulas; predict the direction and result of physico-chemical processes and chemical transformations of biologically important substances; use the IUPAC nomenclature for compiling names according to the formulas of typical representatives of biologically important substances and medicines; analyze the effect of medicines on the totality of their pharmacological properties and the possibility of their use for therapeutic treatment; prescribe prescriptions for medicines, use various dosage forms in the treatment of certain pathological conditions, based on the characteristics of their pharmacodynamics and pharmacokinetics; apply basic antibacterial antiviral and biological drugs; evaluate possible manifestations of drug overdose and ways to eliminate them; to formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, to justify pharmacotherapy in a particular patient with major pathological syndromes and urgent conditions, to determine the route of administration, regimen and dose of medications, to evaluate the effectiveness and safety of the treatment; to apply various methods of drug administration</p> <p><b>To own to:</b> The student must possess the methods of analyzing clinical, laboratory and instrumental data to determine the algorithm of patient management, drawing up drug and non-drug treatment regimens</p>

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<p>PC -2 Readiness to collect and analyze patient complaints, his anamnesis data, examination results, laboratory, instrumental, pathologic-anatomical and other studies in order to recognize the condition or establish the fact of the presence or absence of the disease</p>	<p><b>To know:</b> The student should know the diagnostic methods, diagnostic capabilities of methods of direct examination of the patient of therapeutic, surgical and obstetric-gynecological profile; modern methods of clinical, laboratory, instrumental examination of patients (including endoscopic, X-ray methods, ultrasound diagnostics)</p> <p><b>To be able to:</b> The student should be able to determine the patient's status: collect anamnesis, conduct a survey of the patient and/or his relatives, conduct a physical examination of the patient (examination, palpation, auscultation); conduct a primary examination of the systems and organs: respiratory, cardiovascular, blood and hematopoietic organs, digestive, endocrine and urinary; outline the scope of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result</p> <p><b>To own to:</b> The student must possess the methods of general clinical objective examination (questioning, examination, palpation, percussion, auscultation) for diseases of internal organs; interpretation of the results of laboratory, instrumental diagnostic methods for pathology of internal organs</p>
<p>PC -3 Readiness to manage and treat patients with various nosological forms in outpatient and day hospital conditions</p>	<p><b>To know:</b> The student should know the criteria for the diagnosis of the most common diseases of internal organs. Features of the organization and scope of work of an outpatient doctor, modern diagnostic capabilities of the polyclinic service, methods of emergency measures, indications for planned hospitalization; features of the treatment of diseases of internal organs in outpatient conditions, including day hospital conditions</p> <p><b>To be able to:</b> The student should be able to formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents; develop an algorithm for the tactics of managing a patient with a therapeutic profile in a polyclinic</p> <p><b>To own to:</b> The student must have an algorithm for determining the tactics of managing a patient with a therapeutic pathology, conducting a differential diagnosis for therapeutic pathology</p>



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## Appendix 2

### 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

#### a) List of recommended literature

##### Core reading:

1. Weber, V. R. Endocrinology : textbook for universities / V. R. Weber, M. N. Kopina. - 3rd ed., ispr. and add. - Moscow: Yurayt Publishing House, 2020. - 391 p — - (Higher education). - ISBN 978-5-534-12622-8. - Text: electronic // EBS Yurayt [website]. — <https://urait.ru/bcode/449129>
2. Mkrtumyan A.M. Emergency endocrinology / A.M. Mkrtumyan, A. A. Nelaeva, - 2nd ed. : ispr. and add. - Moscow: GEOTAR-Media, 2020. - 128 p. ADD. - 128 p -- ISBN 978-5-9704 5615-6. - Text: electronic // URL :

<https://www.rosmedlib.ru/book/ISBN9785970456156.html>

3. Ametov A. S., Endocrinology [Electronic resource] / A. S. Ametov, S. B. Shustov, Yu. Sh. Khalimov, - M.: GEOTAR-Media, 2016. - 352 p. - ISBN 978-5-9704-3613-4-Access mode: <http://www.studentlibrary.ru/book/ISBN9785970436134.html>

##### Supplementary reading:

1. Dedov I. I., Pediatric endocrinology. Atlas [Electronic resource] / edited by I. I. Dedov, V. A. Peterkova. - Moscow: GEOTAR-Media, 2016. - 240 p. - ISBN 978-5-9704-3614-1-Access mode: <http://www.studentlibrary.ru/book/ISBN9785970436141.html>
2. Dedov, I. I. Endocrinology : national guidelines / edited by I. I. Dedov, G. A. Melnichenko-2nd ed., reprint. and add. - Moscow: GEOTAR-Media, 2021. - 1112 p.: ill. -1112 p. - ISBN 978-5-9704-6054-2. - Text: electronic / / URL :

<https://www.rosmedlib.ru/book/ISBN9785970460542.html>

3. Ametov, A. S. Type 2 diabetes mellitus. Problems and solutions: studies. manual / A. S. Ametov.- 3rd ed., reprint. and additional – Moscow: GEOTAR-Media, 2019. - Vol. 6. - 160 p.: il. - 160 p. - ISBN 978-5-9704-5186-1. - Text: electronic // URL :

<https://www.rosmedlib.ru/book/ISBN9785970451861.html>

4. Diabetes mellitus [Electronic resource]: scientific and practical journal / National Medical Research Center of Endocrinology; Russian Association of Endocrinologists. - Moscow, 2019. - ISSN 2072-0378. - URL: <https://dlib.eastview.com/browse/publication/67670>

5. Dreval, A.V. Endocrinology / Dreval A.V.-Moscow: GEOTAR-Media, 2019. - 544 p. - ISBN 978-5-9704-5110-6. - Text: electronic // URL :

<https://www.rosmedlib.ru/book/ISBN9785970451106.html>

##### Educational and methodical literature:


1. Slobodnyuk N. A. Methodological recommendations for practical training and independent work of residents in the discipline "Endocrinology": a methodological manual / N. A. Slobodnyuk, M. V. Frolova; Ulyanovsk State University, Institute of Medicine, Ecology and Physical Culture. - Ulyanovsk : UISU, 2019. - Screen title; In English. lang .; Unpublished resource. - Electron. text data. (1 file: 730 Kb). - Text: electronic.

<http://lib.ulsu.ru/MegaPro/Download/MObject/4903>

Chief librarian of the scientific library of ULSU:

*Смел*

/Stadlnikova D.R.

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## Appendix 3

### 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

#### c) Professional databases, information and reference systems


##### 1. Electronic library systems:

- 1.1. IPRbooks: electronic library system: website / IP Ar Media Group of companies. - Saratov, [2021]. - URL: <http://www.iprbookshop.ru>. - Access mode: for registered users. users. - Text : electronic.
- 1.2. YURAYT: electronic library system: website / LLC Electronic publishing house YURAYT. - Moscow, [2021]. - URL: <https://urait.ru>. - Access mode: for registered users. users. - Text : electronic.
- 1.3. Student's consultant : electronic library system: website / LLC Politehresurs. - Moscow, [2021]. - URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. - Access mode: for registered users. users. - Text : electronic.
- 1.4. Doctor's consultant: electronic library system: website / LLC Higher School of Organization and Management of Healthcare-Comprehensive medical consulting. - Moscow, [2021]. - URL: <https://www.rosmedlib.ru>. - Access mode: for registered users. users. - Text : electronic.
- 1.5. Big medical library: electronic library system: website / LLC Bukap. - Tomsk, [2021]. - URL: <https://www.books-up.ru/ru/library/>. - Access mode: for registered users. users. - Text : electronic.
- 1.6. Lan: electronic library system: website / EBS Lan LLC. - St. Petersburg, [2021]. - URL: <https://e.lanbook.com>. - Access mode: for registered users. users. - Text : electronic.
- 1.7. Znaniy.com : electronic library system: website / Znaniy LLC. - Moscow, [2021]. - URL: <http://znaniy.com>. - Access mode : for registered users. users. - Text : electronic.
- 1.8. Clinical Collection: a collection for medical universities, clinics, medical libraries // EBSCOhost : [portal]. - URL: <http://web.b.ebscohost.com/ehost/search/advanced?vid=1&sid=9f57a3e1-1191-414b-8763-e97828f9f7e1%40sessionmgr102>. - Access mode : for authorization. users. - Text : electronic.
- 1.9. Russian as a foreign language: an electronic educational resource for foreign students: website / LLC "Ai Pi Ar Media" Company. - Saratov, [2021]. - URL: <https://ros-edu.ru>. - Access mode: for registered users. users. - Text : electronic.

2. **ConsultantPlus** [Electronic resource]: reference legal system. / LLC "Consultant Plus" - Electron. dan. - Moscow: ConsultantPlus, [2021].

##### 3. Databases of periodicals:

- 3.1. Database of periodicals : electronic journals / IVIS LLC. - Moscow, [2021]. - URL: <https://dlib.eastview.com/browse/udb/12>. - Access mode : for authorization. users. - Text : electronic.
- 3.2. eLIBRARY.RU: scientific electronic library: website / Scientific Electronic Library LLC. - Moscow, [2021]. - URL: <http://elibrary.ru>. - Access mode : for authorization. users. - Text : electronic
- 3.3. "Grebennikon": electronic library / ID Grebennikov. - Moscow, [2021]. - URL: <https://id2.action-media.ru/Personal/Products>. - Access mode : for authorization. users. - Text : electronic.

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4. **National Electronic Library:** electronic library: federal State information system: website / Ministry of Culture of the Russian Federation; RGB – - Moscow, [2021]. - URL: <https://нэб.рф>. - Access mode : for users of the scientific library. - Text : electronic.

5. **SMART Imagebase** // EBSCOhost : [portal]. – URL: <https://ebSCO.smartimagebase.com/?TOKEN=EBSCO-1a2ff8c55aa76d8229047223a7d6dc9c&custid=s6895741> – - Access mode: for authorization. users. - Image : electronic.

6. **Federal information and educational portals:**

6.1. Single window of access to educational resources: federal portal / founder of the FSAOU DPO TSRGOP and IT. - URL: <http://window.edu.ru/> . - Text : electronic.

6.2. Russian education : federal portal / founder of the FSAOU DPO TSRGOP and IT. - URL: <http://www.edu.ru>. - Text: electronic.

7. **Educational resources of USU:**


7.1. Electronic library of USU: module ABIS Mega-PRO / LLC "Date Express". – URL: <http://lib.ulsu.ru/MegaPro/Web>. - Access mode : for users of the scientific library. - Text : electronic.

Agreed:



Deputy Head of the Department  
of Information Technologies and Telecommunications  
of Ulyanovsk State University




/ Klochkova A.V.

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**LIST OF CHANGES of 3**  
**Educational plan of discipline “Endocrinology”**  
**Speciality 31.05.01. «General medicine»**

<b>№</b>	<b>Content of the change or a link to the attached text of the</b>	<b>Full name of the head of the Department developing the discipline</b>	<b>Signature</b>	<b>Date</b>
1	Appendix 1. Introduction of changes to item A) List of recommended literature item 11 "Educational-methodological and information support of the discipline" with the design of appendix	Ruzov V.I.		29.04.2022
2	Appendix 2. Introduction of changes to item C) Professional databases, directory and search systems item 11 "Educational-methodological and information support of the discipline" with the design of appendix	Ruzov V.I.		29.04.2022

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Appendix 1

## 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

### a) List of recommended literature

#### Core reading:

1. Mushtaq Haroon; Sundus Maryium Husnain. Diabetes and Endocrinology : Essentials of Clinical Practice Series: Health Education Collection. Edition: First edition. New York, New York [222 East 46th Street, New York, NY 10017] : Momentum Press. 2021. eBook.

<https://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=2897890&site=ehost-live&scope=site>

2 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/>

#### Supplementary reading:

1. Pearce, Zachary. Type 1 Diabetes: Causes, Treatment and Potential Complications

Series: Endocrinology Research and Clinical Developments. New York : Nova Science Publishers, Inc. 2014. eBook

<https://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=696541&site=ehost-live&scope=site>

2. Frangopoulos, Stefanos; Calpis, Isidoros. Type 2 Diabetes: Causes, Treatment and Preventive Strategies Series: Metabolic Diseases -- Laboratory and Clinical Research. [Huppauge] New York :

Nova Science Publishers, Inc. 2012. eBook. <https://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=541129&site=ehost-live&scope=site>

3. 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/>


#### Educational and methodical literature:

1. Slobodnyuk N. A. Methodological recommendations for practical studies and independent work of students on the discipline «Endocrinology» for specialty 31.05.01 «General medicine» / N. A. Slobodnyuk, M. V. Frolova; Ulyanovsk State University. - Ulyanovsk : ULSU, 2022. - 32 p. -

Неопубликованный ресурс; На англ. яз. - URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/11544> . - Режим доступа: ЭБС УлГУ. - Текст : электронный.

AGREED:

Chief librarian of the scientific library of ULSU: *5.05.2022 С.М.Ш.* /Stadolnikova D.R.

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## Appendix 2

### 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

#### c) Professional databases, information and reference systems

##### 1. Electronic library systems:

1.1. Digital educational resource IPRsmart: electronic library system: site / LLC "IPR Media" company. - Saratov, [2022]. – URL: <http://www.iprbookshop.ru>. – Access mode: for registration. users. - Text : electronic.

1.2. Educational platform URAIT: educational resource, electronic library: site / LLC Electronic publishing house URAIT. – Moscow, [2022]. - URL: <https://urait.ru>. – Access mode: for registration. users. - Text : electronic.

1.3. Physician consultant. Electronic medical library: database: website – Moscow, [2022]. – URL: <https://www.rosmedlib.ru>. – Access mode: for registration. users. – Text : electronic.

1.4. Large medical library: electronic library system: website / Bucap LLC. – Tomsk, [2022]. – URL: <https://www.books-up.ru/ru/library/>. – Access mode: for registered users. – Text : electronic.

1.5. EBS Lan: electronic library system: website / EBS Lan LLC. – St. Petersburg, [2022]. – URL: <https://e.lanbook.com>. – Access mode: for registered users. – Text : electronic.

1.6. EBS Znanium.com: electronic library system: website / Znanium LLC. - Moscow, [2022]. - URL: <http://znanium.com>. – Access mode : for registered users. - Text : electronic.

1.7. Clinical Collection: EBSCO scientific information database // EBSCOhost: [portal]. – URL: <http://web.b.ebscohost.com/ehost/search/advanced?vid=1&sid=9f57a3e1-1191-414b-8763-e97828f9f7e1%40sessionmgr102>. – Access mode : for authorization. users. – Text : electronic.

1.8. Database "Russian as a foreign language": an electronic educational resource for foreign students: site / IP Company "IP Ar Media" LLC. – Saratov, [2022]. – URL: <https://ros-edu.ru>. – Access mode: for registered users. – Text : electronic.

**2. ConsultantPlus** [Electronic resource]: reference legal system. / Consultant Plus LLC - Electron. Dan. - Moscow: ConsultantPlus, [2022].

##### 3. Databases of periodicals:

3.1. EastView Periodicals Database: Electronic Journals / IVIS LLC. - Moscow, [2022]. – URL: <https://dlib.eastview.com/browse/udb/12>. – Access mode : for authorization. users. – Text : electronic.

3.2. eLIBRARY.RU: scientific electronic library: website / LLC Scientific Electronic Library. – Moscow, [2022]. – URL: <http://elibrary.ru>. – Access mode : for authorization. users. – Text : electronic


3.3. Electronic library of the Grebennikov Publishing House (Grebinnikon): electronic library / ID Grebennikov LLC. – Moscow, [2022]. – URL: <https://id2.action-media.ru/Personal/Products>. – Access mode : for authorization. users. – Text : electronic.

**4. Federal state information system "National Electronic Library"**: electronic library: website / FGBU RSL. – Moscow, [2022]. – URL: <https://neb.rf>. – Access mode : for users of the scientific library. – Text : electronic.

**5. SMART Imagebase**: EBSCO scientific information database // EBSCOhost: [portal]. – URL: <https://ebco.smartimagebase.com/?TOKEN=EBSCO-1a2ff8c55aa76d8229047223a7d6dc9c&custid=s6895741>. – Access mode : for authorization. users. – Image : electronic.

##### 6. Federal information and educational portals:

6.1. Single window of access to educational resources : federal portal . – URL: <http://window.edu.ru/>. – Text : electronic.

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6.2. Russian education: federal portal / founder of FGAU "FITsTO". – URL: <http://www.edu.ru>. – Text : electronic.

**7. Educational resources of USU:**


7.1. Electronic library system of UISU: module "Electronic library" ABIS Mega-PRO / Data Express LLC. – URL: <http://lib.ulsu.ru/MegaPro/Web>. – Access mode : for users of the scientific l

Agreed:



Deputy Head of the Department of Information  
Technologies and Telecommunications  
of Ulyanovsk State University / Klochkova A.V.




19.04.22

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**LIST OF CHANGES of  
Educational plan of discipline “Endocrinology”  
Speciality 31.05.01. «General medicine»**

<b>№</b>	<b>Content of the change or a link to the attached text of the</b>	<b>Full name of the head of the Department developing the discipline</b>	<b>Signature</b>	<b>Date</b>
1	Appendix 1. Introduction of changes to item A) List of recommended literature item 11 "Educational-methodological and information support of the discipline" with the design of appendix	Ruzov V.I.		26.05.2023r.
2	Appendix 2. Introduction of changes to item C) Professional databases, directory and search systems item 11 "Educational-methodological and information support of the discipline" with the design of appendix	Ruzov V.I.		26.05.2023r.



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Appendix 1

## 11. EDUCATIONAL-METHODICAL AND INFORMATION SUPPORT OF DISCIPLINE

### a) List of recommended literature

#### Core 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 / E. N. Kezun, N. S. Slobodskaya, D. V. Pitsko, K. V. Gonchar. - Гродно : ГрГМУ, 2020. - 200 с. - ISBN 9789855953198. - Текст : электронный // ЭБС "Букар" : [сайт]. - URL : <https://www.books-up.ru/ru/book/diagnostics-and-treatment-of-internal-diseases-in-outpatient-department-11950033/>

2 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 "Букар" : [сайт]. - URL : <https://www.books-up.ru/ru/book/saharnyj-diabet-v-tablicah-i-shemah-11261456/>

#### Supplementary reading:

1. Ивашкин, В. Т. Internal diseases propedeutics / V. T. Ivashkin, A. V. Okhlobystin. - Moscow : GEOTAR-Media, 2020. - 176 p. - 176 с. - ISBN 978-5-9704-5555-5. - Текст : электронный // ЭБС "Консультант студента" : [сайт]. - URL : <https://www.studentlibrary.ru/book/ISBN9785970455555.html>.

2. 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 : ВолГМУ, 2018. - 80 с. - Текст : электронный // ЭБС "Букар" : [сайт]. - URL : <https://www.books-up.ru/ru/book/vnutrennie-bolezni-endokrinologiya-i-fizioterapiya-12448531/>

#### Educational and methodical literature:

1 Slobodnyuk N. A.

Methodological recommendations for practical studies and independent work of students on the discipline «Endocrinology» for specialty 31.05.01 «General medicine» / N. A. Slobodnyuk, M. V. Frolova; Ulyanovsk State University. - Ulyanovsk : UISU, 2022. - 32 p. -

Неопубликованный ресурс; На англ. яз. - URL:

<http://lib.ulsu.ru/MegaPro/Download/MObject/11544>. - Режим доступа: ЭБС УлГУ. - Текст : электронный.

#### Agreed:

Leading specialist of the scientific library of ULSU:

*С.М.С.*

/Stadolnikova D.R.

*24.04.2023*

