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Federal State Autonomous Educational Institution of Higher Education

PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA

NAMED AFTER PATRICE LUMUMBA

RUDN University

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Endocrinology

course title

Recommended by the Didactic Council for the Education Field of:

31.05.01 General Medicine

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

General Medicine

higher education programme profile/specialisation title

2025

1. COURSE GOAL(s)

The discipline "Endocrinology" is included in the program of the specialty "Medicine" in the direction of 05.31.01 "Medicine" and is studied in the twelfth semester of the sixth year. The discipline is implemented by the Department of Hospital Therapy with courses in Endocrinology, Hematology and clinical laboratory diagnostics. The discipline consists of 2 sections and 8 topics and is aimed at studying the etiology, pathogenesis and clinical manifestations of diseases of the endocrine system, methods of diagnosing these diseases and choosing therapeutic tactics using modern therapies.

The goal of the course "Endocrinology" is to obtain basic theoretical knowledge on the fundamental sections of endocrinology and practical skills in examining patients with endocrine diseases, primary diagnosis, treatment and clinical examination of patients.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

Mastering the course (module) "Endocrinology" is aimed at the development of the following competences /competences in part: GPC-4, PC-1, PC-2, PC-3, PC-4, PC-5.

Table 2.1. List of competencies formed in students in the course of mastering the discipline (the results of mastering the discipline)

Code	Competence	Indicators of competence achievement (within the given discipline)
GPC-4	Able to use medical devices prescribed by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis	<p>GPC-4.1 Be able to use medical devices in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical assistance, assistance, taking into account the standards of medical care.</p> <p>GPC-4.2 Be able to assess the effectiveness and safety of the use of medical devices.</p> <p>GPC-4.3 Be proficient in the technique of performing typical medical manipulations using medical devices provided medical care procedures</p>
PC-1	Able to provide medical care to a patient in urgent or emergency forms.	<p>PC-1.1. Able to assess the condition of a patient requiring medical care in emergency or emergency forms.</p> <p>PC-1.2 Is able to recognize conditions that occur with sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care;</p> <p>PC-1.3 Able to provide emergency medical care to patients with sudden acute diseases, conditions,</p>

		<p>exacerbation of chronic diseases without obvious signs of a threat to the patient's life;</p> <p>PC-1.4 Able to recognize conditions that pose a threat to the patient's life, including conditions of clinical death (stopping vital functions of the human body (blood circulation and/or respiration) that require emergency medical care;</p> <p>PC-1.5 Able to provide emergency medical care to patients with conditions that pose a threat to the patient's life, including clinical death (stopping vital functions of the human body (blood circulation and/or respiration);</p> <p>PC-1.6 Capable of using medicines and medical devices in the provision of medical care in emergency or emergency forms;</p>
PC-2	Able to conduct a patient examination in order to establish a diagnosis	<p>PC-2.1. He has the skills to collect complaints, anamnesis of the patient's life and illness, as well as to conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation).</p> <p>PC-2.2. Able to formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient</p> <p>PC-2.3. Able to refer the patient for laboratory examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>PC-2.4. Able to refer the patient for an instrumental examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>PC-2.5. Able to refer the patient for consultations to specialist doctors if there are medical</p>

		<p>indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>PC-2.6. Able to refer a patient for specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>PC-2.7. Able to make a differential diagnosis with other diseases/conditions, including emergencies, as well as establish a diagnosis based on the current International Statistical Classification of Diseases and Related Health Problems (ICD).</p>
PC-3	Able to prescribe treatment and control its effectiveness and safety	<p>PC-3.1. Able to develop a treatment plan for a disease or condition, taking into account the diagnosis, age and clinical presentation in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>PC-3.2. Able to prescribe medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease and in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p> <p>PC-3.3. Able to prescribe non-drug treatment, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care</p>

		<p>PC-3.4. Able to assess the effectiveness and safety of the use of medicines, medical devices, clinical nutrition and other methods of treatment;</p> <p>PC-3.5. Able to provide palliative care in cooperation with specialist doctors and other medical professionals;</p> <p>PC-3.6. Able to organize personalized treatment of the patient, including pregnant women, elderly and senile patients, to evaluate the effectiveness and safety of treatment;</p>
PC-4	Able of implementing and monitoring the effectiveness of the patient's medical rehabilitation, including in the implementation of individual rehabilitation or habilitation programs for the disabled, assessing the patient's ability to carry out work activities	PC-4.1 Able to conduct an examination of temporary disability and work as part of a medical commission that carries out an examination of temporary disability;
PC-5	Able of conducting and monitoring the effectiveness of measures for the prevention and formation of a healthy lifestyle and sanitary and hygienic education of the population	<p>PC-5.6. Able to monitor compliance with preventive measures;</p> <p>PC-5.11. Able to assess the effectiveness of preventive work with patients.</p>

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
GPC-4	Able to use medical devices prescribed by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis	General medical skills; Biotechnology; General Surgery; Pharmacology; Topographic anatomy and operative surgery; Neurology; medical genetics; neurosurgery; Anesthesiology, resuscitation,	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Radiation diagnostics; Bioorganic chemistry; Experimental oncology; Physics; Chemistry; Introductory practice on obtaining primary professional skills: patient care (simulation center); Introductory practice for obtaining primary professional skills: patient care; Practice in obtaining primary professional skills: assistant to junior medical staff; Practice of diagnostic profile: assistant ward nurse; Emergency Medical Manipulation Practice (Simulation Center); Practice in obtaining primary professional skills and professional experience: assistant to a procedural nurse;	
PC-1	Able to provide medical care to the patient in urgent or emergency forms	Life safety; Ophthalmology; Propedeutics of internal diseases; Obstetrics and gynecology; Infectious diseases; General Surgery; Pediatrics; Faculty therapy; Faculty Surgery; Neurology, medical genetics, neurosurgery; Outpatient therapy; Anesthesiology, intensive care, intensive care;	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Emergency medicine for life-threatening conditions; Hospital therapy; Urology; Practice of diagnostic profile: assistant ward nurse; Emergency Medical Manipulation Practice (Simulation Center); Practice in obtaining primary professional skills and professional experience: assistant to a procedural nurse; Surgical practice: Assistant surgeon; Obstetric and gynecological practice: assistant to a gynecologist; assistant of a doctor of a therapeutic profile: assistant of a general practitioner; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;	
PC-2	Capable of examining a patient in order to establish a diagnosis	Medical Enzymology**; General medical skills; Molecular genetics in practical biology and medicine**; Ophthalmology; Propedeutics of internal diseases; Medical Elementology; Obstetrics and gynecology; Immunology; Infectious diseases; Otorhinolaryngology; General Surgery;	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		Pediatrics; Faculty therapy; Faculty Surgery; Occupational diseases; Microbiology, virology; Pathophysiology, clinical pathophysiology; Neurology, medical genetics, neurosurgery; Psychiatry, medical psychology; Phthisiology; Outpatient therapy; Anesthesiology, intensive care, intensive care; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Evidence-based medicine; Radiation diagnostics; Dermatovenereology; Clinical Dentistry; Current issues of neonatology**; Topical Issues of Neonatology**; Cardiology in Quests; Methods of microbiological diagnosis; Molecular genetic methods; Pathological anatomy, clinical pathological anatomy; Hospital therapy; Urology; Surgical practice: Assistant surgeon; Obstetric and gynecological practice: assistant to a gynecologist; Assistant physician of the therapeutic profile: assistant physician of the therapist; General medical practice: assistant to an outpatient clinic doctor;	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;	
PC-3	Capable of prescribing treatment and monitoring its effectiveness and safety	Introduction to Nutritionology**; The basics of nutrition in childhood**; Ophthalmology; Obstetrics and gynecology; Infectious diseases; Clinical Pharmacology; Otorhinolaryngology; Pediatrics; Faculty therapy; Pharmacology; Faculty Surgery; Occupational diseases; Fundamentals of Integrative medicine**; Neurology, medical genetics, neurosurgery; Psychiatry, medical psychology; Phthysiology; Outpatient therapy; Hospital surgery, pediatric surgery; Oncology, radiation therapy; Traumatology, orthopedics; Dermatovenerology; Current issues of neonatology**; Topical Issues of Neonatology**; Experimental oncology; Cardiology in Quests; The basics of therapeutic nutrition; Geriatrics and palliative medicine; Clinical Trials**; Clinical studies**; Hospital therapy; Urology; Surgical practice: Assistant surgeon;	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		Obstetric and gynecological practice: assistant to a gynecologist; Assistant physician of the therapeutic profile: assistant physician of the therapist; General medical practice: assistant to an outpatient clinic doctor; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;	
PC-4	Capable of implementing and monitoring the effectiveness of the patient's medical rehabilitation, including in the implementation of individual rehabilitation or habilitation programs for the disabled, assessing the patient's ability to carry out work activities	Organization of special patient care; Faculty therapy; Faculty Surgery; Occupational diseases; Public health and healthcare, health economics; Medical rehabilitation; Neurology, medical genetics, neurosurgery; Forensic medicine; Outpatient therapy; Hospital surgery, pediatric surgery; Traumatology, orthopedics; Hospital therapy; Surgical practice: Assistant surgeon; General medical practice: assistant to an outpatient clinic doctor;	
PC-5	Capable of conducting and monitoring the effectiveness of measures for the prevention and formation of a healthy lifestyle and sanitary and hygienic education of the population.	Introduction to Nutritionology**; The basics of nutrition in childhood**; Ophthalmology; Propedeutics of internal diseases; Organization of special patient care; Obstetrics and gynecology; Infectious diseases; Pediatrics;	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		Epidemiology; Occupational diseases; Hygiene; Neurology, medical genetics, neurosurgery; Phthisiology; Outpatient therapy; Dermatovenerology; Clinical Dentistry; Fundamentals of psychophysiology**; Urology; General medical practice: assistant to an outpatient clinic doctor; General medical practice: Assistant pediatrician;	

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Endocrinology" is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)*

Type of academic activities	Total academic hours		Semesters/training modules
			12
<i>Contact academic hours</i>	32		32
Lectures (LC)	-		-
Lab work (LW)	32		32
Seminars (workshops/tutorials) (S)	-		-
<i>Self-studies</i>	31		31
Evaluation and assessment (exam or pass/fail grading), ac.h	9		9
Course workload	Ac. hours	72	72
	credits	2	2

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types

Section 1. Diabetes mellitus	Topic 1.1.: Diabetes mellitus (DM), uncomplicated course. Classification, primary diagnosis and metabolic control. Hypoglycemic and antihyperglycemic therapy. Insulin therapy. Emergency conditions of DM.	LW
	Topic 1.2: Emergency conditions in patients with diabetes mellitus.	LW
	Topic 1.3: Late complications of diabetes mellitus: diabetic microangiopathies.	LW
	Topic 1.4: Late complications of diabetes mellitus: diabetic macroangiopathies. Diabetic polyneuropathy	LW
Section 2 General endocrinology	Topic 2.1: Diseases of the thyroid gland. Endemic and sporadic goiter. Diffuse toxic goiter.	LW
	Topic 2.2: Inflammatory diseases of the thyroid gland. Hypothyroidism. Diseases of the parathyroid glands.	LW
	Topic 2.3: Diseases of the hypothalamic-pituitary system. Obesity.	LW
	Topic 2.4: Diseases of the adrenal glands.	LW

- filled in only for **FULL-TIME**-time education: LC - lectures; LW - laboratory work; S - practical/seminar classes.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Classroom for Academic Activity Type	Classroom equipment	Specialized educational/laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture room	Lecture room for conducting lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations.	A set of specialized furniture; technical equipment: HP laptop; NEC multimedia projector, Internet access. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Skype): Yandex 360 (Yandex Telemost)

Computer lab	Computer class for conducting classes, group and individual consultations, current control and intermediate certification, equipped with personal computers (4 pcs.), a board (screen) and technical means of multimedia presentations.	A set of specialized furniture; magnetic marker board, Cactus Motoscreen screen; technical equipment: laptops (4) - Lenovo (2), Asus; HP; multimedia projectors NEC, Epson EB-XOC; Acer X113P; Optoma DH351 DLP; there is Internet access. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Skype): Yandex 360 (Yandex Telemost).
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and midterm assessment, equipped with a set of specialized furniture and technical means for multimedia presentations	A set of specialized furniture; technical equipment: HP laptop; NEC multimedia projector, Internet access. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Skype): Yandex 360 (Yandex Telemost). A set of tuning forks (medical instrument for diagnosing nerve/auditory conduction), Satellite Express glucometers.
Self-studies	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIEE.	A set of specialized furniture; technical equipment: HP laptop; NEC multimedia projector, Internet access. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Skype): Yandex 360 (Yandex Telemost). A set of tuning forks (medical instrument for diagnosing nerve/auditory conduction), Satellite Express glucometers.

* - the audience for independent work of students is indicated **MANDATORY**

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Endocrinology: national guidelines: practical guidance / I.I. Dedov, G.A. Melnichenko; edited by I.I. Dedov, G.A. Melnichenko - Moscow: GEOTARMedia, 2024. - 1112 p. – ISDN 978-5-9704-8147-9. https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=456618&idb=0
2. Zotova T. Yu. Fundamentals of the pathogenesis of diabetes mellitus: a textbook for use in the educational process of educational organizations implementing higher education programs in the specialties 31.05.01 General Medicine, 31.05.03 Dentistry, 33.05.01 Pharmacy / T. Yu. - 2nd edition, corrected and supplemented; Electronic text data. - Moscow: RUDN University, 2020. - 123 p.: ill. - ISBN 978-5-209-09639-9: 194.75 https://mega.rudn.ru:443/MegaPro/UserEntry?Action=Rudn_FindDoc&id=492144&idb=0
3. Basic and clinical endocrinology. Book 2. Gardner D, Shobek D; Translated from English - Bin, 2024. - 696 p. ISBN 978-5-9518-0439-6 [https://www.ukazka.ru/catalog/book-bazisnaya-i-clinicheskaya-endokrinologiya-kniga-2-890909.html ?ysclid=lu8aipl9lr212934315](https://www.ukazka.ru/catalog/book-bazisnaya-i-clinicheskaya-endokrinologiya-kniga-2-890909.html?ysclid=lu8aipl9lr212934315)
4. Type 2 diabetes. Problems and Solutions: Study Guide. T. 7 / A.S. Ametov. - 3rd ed., revised. and additional - Moscow: GEOTAR-Media, 2017. - 240 p. https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=475808&idb=0

Additional readings:

Electronic full-text materials:

1. Fundamentals of Internal Medicine: in 2 volumes. Volume 2 / G. N. Avakyan, O. V. Averkov, E. Kh. Anaev [et al.]; editors V. S. Moiseev, Zh. D. Kobalava, A. D. Kaprin, M. V. Shestakova, I. V. Maev, E. I. Gusev, S. V. Moiseev. - 2nd ed., revised and enlarged. - Moscow: Medical Information Agency, 2020. - 724 p. : ill. - ISBN 978-5-907098-36-7. - ISBN 978-5-907098-34-3 : 1725.00.
2. Algorithms of Specialized Medical Care for Patients with Diabetes Mellitus / Edited by I. I. Dedov, M. V. Shestakova, O.Yu. Sukhareva. – 12th issue. – M.; 2025. https://www.endocrincentr.ru/sites/default/files/all/specialists/algorithmy_spezializirovannoy_medicinskoj_pomoschi_bolnym_sd_2025.pdf
3. Simulation training in the practice of an endocrinologist: a tutorial / I. D. Dzhopua, A. I. Badretdinova, A. S. Klimenko, Zh. G. Tigay. - Moscow: RUDN University, 2025. - 62 p.: ill. - ISBN 978-5-209-11901-2: 16.07. https://mega.rudn.ru:443/MegaPro/UserEntryAction=Rudn_FindDoc&id=518917&idb=0
4. Diagnostics and Treatment of Emergency Conditions in a Therapeutic Clinic: A Tutorial / V.E. Dvornikov, G.G. Ivanov, N.D. Kislyi [et al.]; edited by P.P. Ogurtsov, V.E. Dvornikov. - Moscow: Medical Information Agency, 2018. - 624 p.; ill. - ISBN 978-5-6040008-8-5: 1463.0

Resources of the information and telecommunications network "Internet":

1. RUDN ELS and third-party ELS,
to which university students have access on the basis of concluded agreements:
 - RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
 - ELS "University Library Online" <http://www.biblioclub.ru>
 - EBS Yurayt <http://www.biblio-online.ru> - ELS "Student Consultant" www.studentlibrary.ru - EBS "Lan" <http://e.lanbook.com/>
 - EBS "Trinity Bridge"

2. Data bases and search engines:
 - electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
 - Yandex search engine <https://www.yandex.ru/>
 - Google search engine <https://www.google.ru/> - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus>

*Educational and methodological materials for independent work of students in the development of the discipline/module**

A course of lectures on the discipline "Endocrinology".

* - All educational and methodological materials for independent work of students are posted in accordance with the current procedure on the discipline page in TUIS!

DEVELOPERS:

Assistant Professor of the Department
of Hospital Therapy with Courses of
Endocrinology, Hematology and
CLD, MD; PhD

M.R. Alexandrova

Position	Signature	Surname, Name Middle name.
Professor of the Department of Hospital Therapy with Courses of Endocrinology, Hematology and KLD, MD Professor		I.A. Kurnikova

Position	Signature	Surname, Name Middle name.
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Head of department

Head of the Department of Hospital
Therapy with Courses of
Endocrinology, Hematology and
KLD, MD Professor

Kokorin V. A.

Position	Signature	Surname, Name Middle name.
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Head of Programme

MI First Deputy Director for Academic
Affairs

N.V. Sturov

Position

Signature

Surname Name Middle name.