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Federal State Autonomous Educational Institution for Higher Education
«PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA»
RUDN University

Institute of Medicine

(name of the main educational learning (MEL) - developer of the Course Syllabus)

COURSE SYLLABUS

ENDOCRINOLOGY

(name of the main educational learning/training)

Recommended by MCSA for the Education Field:

31.05.01 General Medicine

(code and higher education field/specialisation)

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

General Medicine

(name (education field/specialisation) EP HE)

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 discipline "Endocrinology" is aimed for the developing the following competencies among students (parts of competencies):

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	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. GPC-4.2 Be able to assess the effectiveness and safety of the use of medical devices. GPC-4.3 Be proficient in the technique of performing typical medical manipulations using medical devices provided medical care procedures
PC-1	Able to provide medical care to a patient in urgent or emergency forms.	PC-1.1. Able to assess the condition of a patient requiring medical care in emergency or emergency forms. PC-1.2 Is able to recognize

		<p>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, 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 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</p>

		<p>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	PC-5.6. Able to monitor compliance with preventive measures; PC-5.11. Able to assess the effectiveness of preventive work with patients;

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The discipline «Endocrinology» belongs to the basic part of the block 1 "Disciplines (modules)" of the educational program of higher education.

As part of the EP HE, students also master other disciplines and / or practices that contribute to the achievement of the planned results of mastering the discipline "Endocrinology".

Table 3.1. The list of components of the EP HE that contribute to the achievement of the planned results of the discipline development

Table № 3.1.

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, 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;	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		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; Propaedeutics 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; 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:	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		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; Propaedeutics of internal diseases; Medical Elementology; Obstetrics and gynecology; Immunology; Infectious diseases; Otorhinolaryngology; General Surgery; 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,	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		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; Obstetric and gynecological practice: assistant obstetrician; General medical practice: Assistant pediatrician;	
PC-3	Capable of prescribing treatment and monitoring its	Introduction to Nutritionology**;	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
	effectiveness and safety	<p>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; Obstetric and gynecological practice: assistant to a gynecologist;</p>	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		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; Propaedeutics of internal diseases; Organization of special patient care; Obstetrics and gynecology; Infectious diseases;	

Code	Name of competence	Previous disciplines/modules, practices*	Subsequent disciplines/modules, practices*
		Pediatrics; 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;	

* - is filled in accordance with the matrix of competencies and EP HE

4. COURSE WORKLOAD AND ACADEMIC/TRAINING/LEARNING ACTIVITIES

The total labor intensity of the discipline "Endocrinology" is 2 credits.

Table 4.1. Types of educational work by periods of mastering EP HE for full-time education

Type of academic work	Total hours		term
			12
Contact work, ac.h.	32		32
Lectures	-		-
Lab work	32		32
Seminars	-		-
Self-study of students, ac. h	31		31
Evaluation and assessment (exam or pass/fail grading), ac.h	9		9
	Ac. hours	72	72
	credits	2	2

Table 4.2. Types of educational work by periods of mastering EP HE for full-time education

Type of academic work	Total hours		term
			12

Contact work, ac.h.	32	32
Lectures	-	-
Lab work	32	32
Seminars	-	-
Self-study of students, ac. h	31	31
Evaluation and assessment (exam or pass/fail grading), ac.h	9	9
	Ac. hours	72
	credits	2

5. CONTENT OF THE DISCIPLINE

Table 5.1. The content of the discipline (module) by type of educational work

Name of the discipline section	Content of the section (topic)	Type of educational work*
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.	Lab work
	Topic 1.2: Emergency conditions in patients with diabetes mellitus.	Lab work
	Topic 1.3: Late complications of diabetes mellitus: diabetic microangiopathies.	Lab work
	Topic 1.4: Late complications of diabetes mellitus: diabetic macroangiopathies. Diabetic polyneuropathy	Lab work
Section 2 General endocrinology	Topic 2.1: Diseases of the thyroid gland. Endemic and sporadic goiter. Diffuse toxic goiter.	Lab work
	Topic 2.2: Inflammatory diseases of the thyroid gland. Hypothyroidism. Diseases of the parathyroid glands.	Lab work
	Topic 2.3: Diseases of the hypothalamic-pituitary system. Obesity.	Lab work
	Topic 2.4: Diseases of the adrenal glands.	Lab work

- - filled in only for **FULL-TIME**-time education: LC - lectures; LW - laboratory work; S - seminars

6. LOGISTICS AND CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS OF THE DISCIPLINE

Table 6.1. Logistics of discipline

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 projector and a laptop.
Computer class	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.	
Seminar-type classes	An auditorium for conducting seminar-type classes, group and individual consultations, ongoing monitoring and intermediate certification, equipped with a set of specialized furniture and multimedia presentation equipment.	Magnetic marker board.
For independent work of students	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.	

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

7. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE

Main reading (sources):

1. Endocrinology: national leadership / I.I. Dedov, G.A. Melnichenko; ed. I.I. Dedova, G.A. Melnichenko. - 2nd ed., revised. and additional - Moscow: GEOTAR-Media, 2022. - 1112 p.
https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=456618&idb=0
2. Gardner D, Shobek D. "Basic and clinical endocrinology. Book 1. Translated from English - Bin, 2024. – 464 p. ISBN 978-5-9518-0388-7
<https://medknigaservis.ru/product/bazisnaya-i-klinicheskaya-endokrinologiya-kniga-1/?ysclid=lu8ah5rv68810720221>
3. 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>
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 literature:

Electronic full-text materials:

1. Kiyakbaev G. K. Endocrinology. Questions and answers [Electronic resource]: Textbook / G.K. Kiyakbaev, Shelepin A. A.; Ed. V.S. Moiseeva, Zh.D. Kobalava. - electronic text data. - M. : Publishing House of RUDN University, 2012. - 142 p. - ISBN 978-5-209-04402-4. https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=380686&idb=0
2. Handbook of technologies in diabetology, edited by I. Reznik. GEOTAR-Media 2020. - 208s. ISBN 978-5-9704-5788-7. <https://www.labirint.ru/books/757919/?ysclid=lu8a4ha0jj76242639>

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. Databases 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 placed in accordance with the current procedure on the page of the discipline **in TUIS!**

8. EVALUATION MATERIALS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES IN THE DISCIPLINE

Evaluation materials and a point-rating system* for evaluating the level of competencies (parts of competencies) based on the results of mastering the discipline "Endocrinology" are presented in the Appendix to this Work Program of the discipline.

* - OM and PRS are formed on the basis of the requirements of the relevant local normative act of the Peoples' Friendship University of Russia.

DEVELOPERS:

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