

Ministry of Health of Ukraine
Odessa National Medical University

Department of Internal Medicine № 1

**Syllabus course
"Endocrinology"**

Scope of the academic discipline	Total number of hours per discipline: 30 hours (1 credit) Semester: XI = XII 6th year of study.
Days, time, place of educational discipline	According to the schedule of classes. Department of Internal Medicine №1 Odesa, str. Zabolotnogo 26. Municipal non-commercial enterprise "Odesa Regional Clinical Hospital" of the Odesa Regional Council, 9th floor building, 7th floor
Teacher(s)	Head of the department: Karpenko Yuriy Ivanovych, DM, professor, Honored doctor of Ukraine, head of the Regional Cardiosurgical Center «Odesa Regional Clinical Hospital» Professor : Zolotaryova N. A., Izha H.M. Associate professors: Savelieva Olha Valeriivna, DM, Kryzhanovskiy Y.M., Pavlovska K.M., Potapchuk O.V., Cherniavskiy V.H., Shukhtina I.M Assistants: Alavatska T. V., Maistrenko M.S., Kravtsova K. V., Riabinina A. H., Romanchenko M.I., Uhan V.V., Bondarenko O.V., Zolotaryova K.O., Panin V.M., Yurdanova I.I.
Contact Number	Contact Number: Savelieva Olha Valeriivna, head teacher of the department +380 95 279 28 52 Belozertseva-Baranova Yuliya Evgeniyvna, senior laboratory technician of the department +380668510435 E-mail: ynutrimed1@onmedu.edu.ua . Face-to-face consultations: from 14:40 to 16:00 every day. Online consultations: from 14:40 to 16:00 every day. A link to online counseling is provided to each group during classes separately.

COMMUNICATION

Communication with students will take place in the classroom (face-to-face).

During distance learning, communication develops through the Microsoft Teams platform, as well as through e-mail correspondence, Viber messenger (via chats created in Viber for each group separately through the head of the group).

Annotation of the academic discipline

The subject of the study of the discipline is the mastery by students of higher education of the methods and techniques of clinical examination of a patient with endocrine pathology, the peculiarities of professional communication between a doctor and a patient, subjective and objective manifestations of diseases (symptoms and syndromes) in order to establish a diagnosis, treatment tactics, disease prevention management in an inpatient stage of treatment of a patient with the endocrine diseases.

Prerequisites and post-requisites of the discipline (place of the discipline in the educational program):

Prerequisites: Ukrainian language (for professional fields), foreign language (for professional fields), Latin language and medical terminology, medical biology, medical and biological physics, biological and bioorganic chemistry, human anatomy, histology, cytology and embryology, physiology, microbiology, virology and immunology, life safety; basics of bioethics and biosafety, pathomorphology, pathophysiology, pharmacology, propaedeutics of therapy, medical psychology.

Post-requisites: internal medicine surgery, obstetrics and gynecology, infectious diseases, epidemiology and principles of evidence-based medicine, oncology and radiation medicine, traumatology and orthopedics, physiology, anesthesiology and intensive care, emergency and emergency medical care, hygiene and ecology, palliative and hospice care, general practice (family medicine).

Goal of discipline: to prepare a student who is able to master the professional competencies and skills of observation and management of the patient with endocrine pathology according to a defined list of symptoms, syndromes and emergency conditions that require special patient management tactics, laboratory and instrumental testing, medical manipulations for solving tasks and problems in the field of medicine, health care and further education.

Tasks of the discipline:

- formation of communication and patient clinical examination skills dealing with the major endocrine diseases and analyze their results;
- formation of skills for determining etiological and pathogenetic factors of the most common diseases of the endocrine system;
- formation of skills and abilities to establish a preliminary diagnosis of the most common diseases of the endocrine system;
- formation of abilities and skills of drawing up a plan for laboratory and instrumental testing of patients with the most common diseases of the endocrine system;
- formation of abilities and skills of substantiation of clinical diagnosis, differential diagnosis of the most common diseases of the endocrine system;
- formation of abilities and skills to make up the necessary medical nutrition plans to treat the most common diseases of the endocrine system and to prescribe treatment, including prognosis-modifying treatment;
- mastering the ability to determine the tactics of emergency care, management, treatment and prevention of the most common diseases of the endocrine system.

Expected results:

As a result of studying the academic discipline, the applicant must:

Know: the basic principles of diagnosis and treatment of diseases of the endocrine system, which are based on the principles of evidence-based medicine.

Be able to:

- Communicate with the patient and his relatives, perform a clinical examination of a patient with the endocrine diseases, collect data on the patient's complaints, medical history, life history.
- To evaluate information about the diagnosis based on the results of laboratory and instrumental examination, namely, to determine the list of necessary clinical and laboratory and instrumental examinations and to evaluate their results.
- Identify the leading clinical symptom or syndrome. Establish the most likely diagnosis or syndromic diagnosis of the disease. Assign laboratory and instrumental examination of the patient.
- Carry out differential diagnosis of diseases. Establish a preliminary and clinical diagnosis.
- To determine the nature and principles of treatment of patients on the basis of a preliminary clinical diagnosis, observing relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.
- Diagnose emergency conditions.
- Determine tactics and provide emergency medical assistance.
- Perform medical manipulations. (according to list 5).
- Keep medical records.

DESCRIPTION OF THE EDUCATIONAL DISCIPLINE

Forms and methods of education

The discipline will be taught in the form of practical classes (18 classroom hours); organization of the applicant's independent work (12 hours).

Methods of education: conversation, role-playing, solving clinical situational problems, patient examination, manipulations according to list 5, instruction and practice of skills, training exercises on differential diagnosis of the most common endocrine diseases.

Content of the academic discipline

Topic 1. Management of a patient with metabolic syndrome.

Topic 2. Management of a patient with chronic complications of diabetes mellitus.

Topic 3. Management of a patient with goitre syndrome.

Topic 4. Management of a patient with hypoglycemic coma. Management of a patient with hyperglycemic (ketoacidemic) coma.

Topic 5. Management of a patient with a thyrotoxic crisis.

Topic 6. Management of a patient with acute adrenal insufficiency.

List of recommended literature:

Main:

1. Endocrinology : textbook for students. higher med. Universities / [P. M. Bodnar , Yu. I. Komisarenko , G. P. Mikhalyshyn , etc.] ; under the editorship Yu. I. Komisarenko , G. P. Mikhalyshyn . – 5th edition, updated . and additional _ – Vinnytsia : Nova Kniga, 2024. – 536 p.: ill . ISBN 978-966-382-821-3
2. Fundamentals of diagnostics, treatment and prevention of major endocrine diseases / [Zhuravlyova L.V., Krivonosova O.M.]; publisher - Publishing house "Medknyga", 2024. - 444 p.: ISBN - 978-617-7994-02-1.
3. Small encyclopedia of the endocrinologist. Main nosologies and syndromes/ [Bolshova O.V., Tkach S.M., Tronko M.D.]; publisher - Publishing house "Medknyga", 2022.- 424 p.: ISBN - 978-966-1597-91-3

Additional:

1. Order of the Ministry of Health of Ukraine dated January 26, 2023 No. 151 "On approval of the Unified Clinical Protocol for Primary, Emergency and Specialized Medical Care "Type 1 Diabetes in Adults""
2. Order of the Ministry of Health of Ukraine dated 07/24/2024 No. 1300 "On approval of the Unified Clinical Protocol for Primary and Specialized Medical Care "Type 2 Diabetes in Adults""

Information resources

1. <http://moz.gov.ua> – Ministry of Health of Ukraine
2. www.ama-assn.org - American Medical Association / American Medical Association
3. www.who.int - World Health Organization
4. www.dec.gov.ua/mtd/home/ - State Expert Center of the Ministry of Health of Ukraine
5. <http://bma.org.uk> - British Medical Association

ASSESSMENT

Forms and methods of current control: oral (survey), practical (working with a patient), assessment of communication skills and activity in class and during role play, assessment of interpretation of clinical, laboratory and instrumental examination results.

Criteria of ongoing assessment at the practical class

Rating	Evaluation criteria
"5"	The student is fluent in the material, supports active participation in the discussion and in solving situational clinical problems and interpretation of clinical, laboratory and instrumental examination data, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
"4"	The student has a good command of the material, participates in the discussion and in solving situational clinical problem and interpretation of clinical, laboratory and instrumental examination data with some mistakes, expresses his opinion on the subject of the lesson, demonstrates clinical thinking.
"3"	The student does not have sufficient knowledge of the material, is unsure of participating in the discussion and solution of the situational clinical problem and the interpretation of clinical, laboratory and instrumental examination data with significant mistakes.
"2"	The student does not possess the material, does not take part in the discussion and solution of the situational clinical problems, does not demonstrate practical skills during the examination of the patient and the interpretation of clinical, laboratory and instrumental examination data.

Forms and methods of final control: : Credit Test is considered, if the student has completed all the tasks of the working program of the educational discipline, actively participated in practical classes. The student has an average current rating of at least 3.0 and has no academic debt.

The possibility and conditions of obtaining additional (bonus) points: not provided.

Self-work of students of higher education

Self-work involves preparation for each practical class.

Policy of educational discipline

Deadline and recompilation policy:

- Missing classes for non-respectable reasons will be made up according to the schedule of the teacher on duty.
- Absences for valid reasons are worked out according to an individual schedule with the permission of the dean's office.

Academic Integrity Policy :

Applicants must observe academic integrity, namely:

- independent performance of all types of work, tasks, forms of control provided for by the work program of the educational discipline;
- references to sources of information in case of use of ideas, developments, statements, information;
- compliance with the legislation on copyright and related rights;
- provision of reliable information about the results of one's own educational (scientific) activity, used research methods and sources of information.

Unacceptable in educational activities for participants of the educational process are:

- using of family or official ties to obtain a positive or higher grade during any form of control of learning outcomes or academic performance;
- use of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-earphones, telephones, smartphones, tablets, etc.) during control measures;

- going through procedures for monitoring the results of training by fake persons.

For violation of academic integrity, students may be held to the following academic responsibility:

- decrease in the results of assessment of the tests, class work, credit tests, etc.;
- retaking the assessment (test, credit, etc.);
- assignment of additional control measures (additional individual tasks, tests, etc.);
- conducting an additional inspection of other works authored by the violator.

Attendance and Tardiness Policy:

Uniform: a medical gown that completely covers the outer clothing, or medical pajamas, a cap, a mask, and a change of shoes.

Equipment: notebook, pen, phonendoscope.

State of health: applicants suffering from acute infectious diseases, including respiratory diseases, are not allowed to attend classes.

A student who is late for class can attend it, but if the teacher has put "absent" in the journal, he must complete it in the general order.

Use of mobile devices :

Mobile devices may be used by students with the permission of the instructor if they are needed for the assignment.

Behavior in the audience:

The behavior of student and teachers in the classrooms should be working and calm, strictly comply with the rules established by the Regulations on academic integrity and ethics of academic relations at Odessa National Medical University, in accordance with the Code of Academic Ethics and University Community Relations of Odessa National Medical University, Regulations on Prevention and detection of academic plagiarism in the research and educational work of students of higher education, scientists and teachers of Odessa National Medical University.