

**MINISTRY OF HEALTH OF UKRAINE
ODESSA NATIONAL MEDICAL UNIVERSITY**

Faculty of medicine, international

Department of Ophthalmology

Syllabus of the academic discipline

«OPHTHALMOLOGY IN THE PRACTICE OF THE FAMILY DOCTOR»

Scope of the academic discipline	Total number of hours per discipline: 90 hours, 3 credits. Semesters: VII-VIII. 6 year of education,
Days, time, place of educational discipline	According to the schedule of classes. Department of Ophthalmology. Odesa, str. Olhiivska, 4 (Eye Microsurgery Center of the Multidisciplinary Medical Center of ONMedU, 1-2 floors, auditorium, classrooms); Odesa, 49/51 French Boulevard, laboratory building, 2nd floor, auditorium, classroom).
Teacher(s)	Head of Department, Doctor of Medicine, Prof. Venger Liudmyla Vilenivna Doctor of Medicine, Prof. Konovalova Natalya Valeriivna Associate Professor, Ph.D. Yepisheva Svitlana Mykolaivna Associate Professor, Ph.D. Ivanytska Olena Vyacheslavivna Assistant Tereshchenko Anastasia Anatoliivna Assistant Kovtun Oleksiy Valeriyovych Assistant Diachkova Zinaida Eduardivna
Contact Information	Phone help: Venger Liudmyla Vilenivna, head of the department (048) 723-42-98 Yepisheva Svitlana Mykolaivna, head teacher of the department 093-849-49-18 E-mail: eyeklinik@onmedu.edu.ua ; eyeklinik@i.ua Face-to-face consultations: from 14:00 to 17:00 every Thursday, from 9:00 to 12:00 every Saturday Online consultations: from 14:00 to 17:00 every Thursday, from 9:00 to 12:00 every Saturday. The link to the online consultation is provided to each group during classes separately.

COMMUNICATION

Communication with applicants will be conducted in the classroom (face-to-face).

During distance learning, communication is carried out through the Microsoft Teams platform, as well as through email correspondence, through Viber, Telegram or WhatsApp messengers (through chats created in these messengers for each group, separately through the head of the group).

ABSTRACT OF THE EDUCATIONAL DISCIPLINE

The subject of study of the educational discipline is an in-depth study of the issues of diagnosis of diseases of the organ of sight in the practice of a family doctor, mastering the main issues of theory and practice of all sections of ophthalmology, diagnosis and prevention of the development of ophthalmic complications in general diseases, providing emergency ophthalmic care and following the further route of examination and treatment of the patient.

Prerequisites and Post-requisites: The study of the educational discipline "Ophthalmology in the practice of a family doctor" is based on previous (providing) disciplines: it is based on in-depth

study by students of higher education of normal anatomy, histology, cytology and embryology, pathological anatomy, propaedeutics of internal diseases and therapy, otolaryngology, endocrinology, neurology, cardiology, infectious diseases, family medicine, phthisiopulmonology, internal medicine, which involves integration with these disciplines and the formation of skills to apply knowledge in the process of further education and professional activity.

The purpose of teaching the academic discipline is the acquisition of knowledge and the formation of elements of professional competences in the field of ophthalmology by the student of higher education, namely practical skills of researching the organ of vision and improving the skills and competences acquired during the study of previous disciplines.

The tasks of the discipline are the following:

1. Acquisition and deepening of a set of knowledge, abilities, skills and other competencies sufficient for solving complex tasks in ophthalmology;
2. Practice the skills and abilities of analyzing the results of ophthalmological research;
3. Acquisition of theoretical knowledge and practical skills regarding ophthalmological symptoms and emergency conditions in ophthalmology.
4. Acquisition of theoretical knowledge and practical skills regarding the peculiarities of observation, diagnosis and management of such patients.

Expected results

As a result of studying the academic discipline, the student of higher education should:

Know:

- rules for determining the functions of peripheral and central vision;
- physiology of binocular vision, research methods, basics of diagnosis, treatment of strabismus (various types);
- diseases of the conjunctiva (clinic, diagnosis, differential diagnosis, treatment); clinic, diagnosis, differential diagnosis, examination, treatment of corneal diseases;
- clinic, diagnosis, differential diagnosis, examination, treatment of diseases of the anterior and posterior segments of the vascular tract;
- clinic, diagnosis, differential diagnosis, treatment of the main diseases of the retina;
- the main forms of optic nerve disease;
- clinic, methods of diagnosis and treatment of diseases of the orbit;
- professional eye diseases, complex measures for dispensation of patients, prevention and medical examination.

Be able:

- collect anamnesis of the ophthalmological patient
- examine central and peripheral vision
- perform direct and reverse ophthalmoscopy
- determine intraocular pressure by palpation
- determine the sensitivity of the ciliary body
- to conduct research using the method of lateral illumination
- to conduct research in passing light
- determine the mobility of the eyeball
- determine the presence of strabismus
- analyze the results of the patient's ophthalmological examination.
- determine etiological, pathogenetic factors and clinical manifestations, diagnose an emergency and provide emergency assistance to the victim in the conditions of natural and man-made

- disasters.
- to provide first aid in emergency situations in ophthalmology

DESCRIPTION OF THE EDUCATIONAL DISCIPLINE

Forms and methods of education

The discipline will be taught in the form of practical classes (30 hours) and organization of the applicant's independent work (60 hours).

Teaching methods: *conversation, role-playing games, solving clinical situational problems, practicing patient examination skills, practicing manipulation skills according to list 5, instruction and practicing skills on simulation dummies, independent and individual work (methodical developments for independent work, information resource of the department, algorithms for performing practical skills, test tasks of the "Krock-2" type).*

Content of the academic discipline

Topic 1. Methods of examination in ophthalmology. Examination of visual functions (central vision, peripheral vision, binocular vision, color perception).

Topic 2. Refraction, accommodation. Methods of examination. Age changes and peculiarities of examination. Strabismus.

Topic 3. Methods of research of the accessory apparatus of the organ of vision. Blepharitis. Chalazion. Diagnosis of dacryocystitis, dacryoadenitis, demodex. Methods of prevention and treatment.

Topic 4. Conjunctivitis. Differential diagnosis of conjunctivitis. Methods of treatment. Dry eye syndrome, diagnosis, prevention, treatment.

Topic 5. Keratitis. Methods of diagnosis, modern approaches to treatment, complications of keratitis.

Topic 6. Uveitis. Etiology, features of diagnosis and treatment, prevention of relapses.

Topic 7. Age-related changes of the lens. Cataracts. Research methods. Treatment. Complications.

Topic 8. Methods of examination of intraocular pressure. Ophthalmohypertension. Glaucoma. Dispensary observation. Treatment.

Topic 9. Damage of the organ of vision. Diagnostic. First aid. Tactics of further treatment.

Topic 10. Retinal disease. Changes in general diseases (hypertensive disease, atherosclerosis, diabetes, etc.). Emergency conditions. Diagnostics. Providing first aid, tactics of further treatment.

Topic 11. Disease of the optic nerve. Emergency conditions. Diagnostics. Providing first aid, tactics of further treatment.

Topic 12. Practicing skills in a simulation class.

Topic 13. Practicing skills in the office of emergency ophthalmological care.

List of recommended literature:

Basic:

1. Ophthalmology: textbook / O. P. Vitovska, P. A. Bezditko, I. M. Bezkorovayna et al.; edited by O. P. Vitovska. -2nd edition. - Kyiv: AUS Medicine Publishing, 2020. - 648 p.
2. Ophthalmology: textbook / O. P. Vitovska, P. A. Bezditko, I. M. Bezkorovayna et al.; edited by O. P. Vitovska. - Kyiv: AUS Medicine Publishing, 2017. - 648 p.
3. Atlas of Glaucoma. Second edition: textbook / Neil T. Choplin, Diane C. Lundy. - Informa healthcare, United Kingdom, 2007. -364 p. ISBN-10: 1841845183.
4. Common Eye Diseases and their Management: textbook / N. R. Galloway, W.M.K. Amoaku, P. H. Galloway and A. C. Browning; -Springer - Verlag London Limited, 2006. – 208 p. ISBN 1-85233-050-32.
5. Ophthalmology at a Glance: textbook / JANE OLVER, LORRAINE CASSIDY; - by Blackwell Science Ltd a Blackwell Publishing company, USA, 2005. -113 p. ISBN-10: 0-632-06473-0.

Additional:

1. Eye Diseases. Course of lectures: textbook / G. E. Venger, A. M. Soldatova, L. V. Venger; edited by V. M.Zaporozhan. - Odessa: Odessa Medical University, 2005. – 157p.
2. Ophthalmology: textbook. / Gerhard K. Lang, edited by J. Amann, O. Gareis, Gabriele E. Lang, Doris Recker, C.W. Spraul, P. Wagner. - Thieme Stuttgart. New York, 2000. - 604 p. ISBN 0-86577-936-8.
3. EYE Atlas. Online Atlas of Ophthalmology. / All rights Reserved, Oculisti Online. Copyright 2001. -408 p.
4. ABC of Eyes, Fourth Edition: textbook / P. T. Khaw, P. Shah, A. R. Elkington. - by BMJ Publishing Group Ltd, BMA House, Tavistock Square, London, 2005. - 97 p. ISBN 0 7279 1659

Electronic information resources

1. <https://info.odmu.edu.ua/chair/ophthalmology/>
2. <https://repo.odmu.edu.ua/xmlui/>
3. <http://library.gov.ua/>
4. <http://www.nbu.gov.ua/>
5. https://library.gov.ua/svitovi-e-resursy/dir_category/general/
6. <http://nmuofficial.com/zagalni-vidomosti/biblioteky/>
7. <https://guidelines.moz.gov.ua/documents>
8. www.ama-assn.org –American Medical Association
9. www.dec.gov.ua/mtd/home/
10. <http://bma.org.uk>
11. www.gmc-uk.org

EVALUATION

During the classes, various *forms and methods* of current discipline control are used: oral survey, testing, evaluation of the performance of practical skills, evaluation of communication skills, solution of situational clinical tasks, evaluation of activity. The current educational activity of the applicant is evaluated in a practical session according to a traditional 4-point scale.

Current evaluation criteria in practical training

Оцінка	Evaluation criteria
Excellent «5»	The student works systematically, shows versatile and in-depth knowledge of the program material during classes, is able to successfully perform the tasks provided for in the program, learns the content of the main and additional literature, is aware of the interrelationship of individual sections of the discipline, their importance for the future profession, shows creative abilities in understanding and the use of educational program material, shows the ability to independently update and replenish knowledge; level of competence - high (creative)
Good «4»	The student demonstrates full knowledge of the educational program material, successfully completes the tasks prescribed by the program, learns the basic literature recommended by the program, shows a sufficient level of knowledge in the discipline and is capable of their independent updating and renewal during further training and professional activity; level of competence - sufficient (constructive and variable)
Satisfactory «3»	The student demonstrates knowledge of the basic curriculum material to the extent necessary for further study and subsequent work in the profession, copes with the tasks provided for by the program, makes individual mistakes in answers, but possesses the necessary knowledge to overcome the mistakes made under the guidance of a scientific and pedagogical worker; level of competence — average (reproductive)
Unsatisfactory«2»	The student does not demonstrate sufficient knowledge of the basic curriculum material, makes fundamental mistakes in the performance of the tasks provided for by the program, cannot use the knowledge in further studies without the help of a teacher, has not managed to master the skills of independent work; the level of competence is low (receptive-productive).

The form of the **final control** is the balance.

Credit is awarded to a student who has completed all the tasks of the work program of the academic discipline, actively participated in practical classes and has an average current grade of at least 3.0 and has no academic debt.

Assessment is carried out: at the last lesson. The credit score is the arithmetic mean of all components on a traditional four-point scale and has a value that is rounded using the statistical method with two decimal places after the decimal point.

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

INDEPENDENT WORK OF HIGHER EDUCATION ACQUIRES

Independent work involves preparation for each practical session.

EDUCATIONAL DISCIPLINE POLICY

Deadlines and Rescheduling Policy

- Absences of classes for non-respectable reasons will be worked out 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

Observance of academic integrity by applicants is mandatory, namely:

- ♦ independent performance of educational tasks, tasks of current and final control, provided for by the work program of this educational discipline;
- ♦ link to sources of information in the case of using ideas, development, statements, information;
- ♦ provision of reliable information about the results of one's own (scientific, creative) activity, used research methods and sources of information.

It is unacceptable in educational activities for the participants of the educational process:

- using family or work connections to obtain a positive or higher grade in any form of control of academic performance or academic performance;
- use during control measures of prohibited auxiliary materials or technical means (cheat sheets, notes, micro-masters, smartphones, tablets, etc.);
- going through procedures for monitoring the results of training by fake persons.

For violations of academic integrity, students may be held to such academic responsibility:

- decrease in evaluation results (control work, differentiated credit);
- re -passing the evaluation (control work, differentiated credit);
- appointment of additional control measures (additional individual tasks, control work, tests, etc.);

Attendance and Tardiness Policy

Attending lectures and practical classes is mandatory. If you are late for more than 15 minutes, the class is considered missed and you need to make up for it in the general manner.

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

Equipment: notebook, pen.

Health: students with acute infectious diseases, including respiratory diseases, are not allowed.

Use of mobile devices:

Mobile devices can be applied by the teacher's permission if they are required to complete the task.

Behavior in the audience

The behavior of applicants and teachers in the classrooms should be working and calm, strictly comply with the rules established by the Regulation on academic integrity and ethics of academic relations at ONMedU, in accordance with the Code of academic ethics and relations of the university community of ONMedU, the Regulation on prevention and detection of academic plagiarism in scientific research and educational work of students of higher education, scientists and teachers of ONMedU.