MINISTRY OF HEALTH OF UKRAINE
ODESSA NATIONAL MEDICAL UNIVERSITY

Faculty of medicine, international

Department of Ophthalmology

Syllabus of the academic discipline

«Plastic and reconstructive surgery in ophthalmology»

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 plastic and reconstructive surgery in ophthalmology, the main task is to prepare a student who, after mastering the basic issues of theory and practice of all sections of ophthalmology, learns the basics of plastic and reconstructive surgery of the eyeball and its appendages, starting with plastic eyelids, ending with complex reconstructive operations on the membranes of the eye**.**

Prerequisites and Post-requisites: The study of the educational discipline "Plastic and reconstructive surgery in ophthalmology" is based on previous (providing) disciplines: it is based on

the in-depth study by students of normal anatomy, histology, cytology and embryology, operative surgery and topographic anatomy, pathological anatomy, ophthalmology, otolaryngology, surgical stomatology and integrates with these disciplines; aimed at deepening knowledge of the basic techniques of plastic and reconstructive operations on various areas of the orbit, eyeball, management of the early and late postoperative periods; contributes to a more in-depth study of maxillofacial surgery by students, which involves the integration of teaching with this discipline and the formation of skills to apply knowledge of ophthalmology in professional activities.

The purpose of teaching the academic discipline is the mastery of knowledge and the formation of elements of professional competences in the field of ophthalmology, namely plastic and reconstructive surgery by the student of higher education, improvement of skills and competences acquired during the study of previous disciplines.of vision and improving the skills and competences acquired during the study of previous disciplines.

The tasks of the discipline are the following**:**

- acquisition and deepening of a set of knowledge, abilities, skills and other competencies sufficient for solving complex tasks in ophthalmology;
- practicing the skills and abilities of analyzing the results of ophthalmological research;
- acquisition of theoretical knowledge on the main issues related to the provision of assistance to patients with congenital, age-related and post-traumatic defects of the organ of vision and its appendages.
- acquisition of practical skills regarding the main issues related to providing assistance to patients with congenital, age-related and post-traumatic defects of the organ of vision and its appendages.

Expected results

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

– **Know:**

- goals and objectives of the discipline at the current stage. History and stages of development of domestic plastic and reconstructive ophthalmic surgery. The history of the Odessa school of plastic surgery in Ukraine, its contribution to the development of reconstructive surgery of the eye and its appendages;
- anatomical features of orbital tissues;
- etiology, pathogenesis and classification, clinical picture of pathology of eye appendages;
- indications and contraindications for plastic and reconstructive operations;
- risk factors for complications, timing of reconstructive and plastic interventions.
- methods of plastic surgery in ophthalmic surgery. Plastic with local fabrics. Filatov's method of stepping stem.
- free transplantation of autotissues. Morphological characteristics of transplanted tissues. Types of tissue transplantation: plastic with local tissues, flaps on the skin peduncle. Alloplasty. Methods of replacement and elimination of tissue defects.
- classification of defects and deformations of the eyelids, conjunctival cavity, orbit.
- plastic surgery for blepharoptosis.
- plastic and reconstructive surgery for lagophthalmos.
- Plastic surgery of the conjunctival cavity in case of anophthalmia. Methods of operative interventions.
- plastic surgery for age-related changes in the eyelids. Types of operations, features of the postoperative period, possible complications and their prevention. Plastic sclera during

reconstructive operations of the eye.

- keratoprosthesis. Methods and features of operations. Modern keratoprostheses.
- iridoplasty. Types of congenital iris defects. Indications for operative interventions.
- reconstructive operations for iris injuries. Methods of closed iridoplasty. Postoperative rehabilitation and prevention of complications.
- classification of burns of the eyeball and its appendages.
- types of operations for eye burns. Possible complications and their prevention.
- classification of tumors of the organ of vision.
- types of operations for tumors of the eyeball and its appendages. Indications for evisceration, exenteration.
- complications during and after reconstructive operations, their prevention and treatment.

– **Be able:**

- analyze the results of the patient's ophthalmological examination.
- to analyze the structural and functional relationships and sequence of stages of general pathological processes in ophthalmology.
- analyze and draw conclusions about the etiology and pathogenesis of functional disorders in eye diseases.
- identify congenital and acquired defects of the eye and its appendages.
- to demonstrate mastery of the moral and deontological principles of a medical specialist and the principles of professional subordination in surgery.
- apply the basic principles of asepsis, antiseptics and analgesia.
- collect anamnesis and conduct a clinical examination of the patient with a defect or deformation of the tissues of the head and neck, correctly prepare the medical history, establish a diagnosis and draw up a treatment plan.
- predict complications during and after surgical interventions
- apply monocular and binocular blindfold correctly.
- to master the technique of instillation of eye drops, application of ointment for the eyelids.
- interpret the principles of postoperative treatment and rehabilitation of patients with damage to the appendages of the eye.

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. History and stages of development of plastic and reconstructive surgery in ophthalmology.

Topic 2. Defects of eyelids, conjunctival cavity, orbit.

Topic 3. Methods of plastic surgery in ophthalmic surgery.

Topic 4. Blepharoplasty.

Topic 5. Plastic surgery for blepharoptosis.

Topic 6. Plastic and reconstructive surgery for lagophthalmos.

Topic 7. Plastic surgery of the conjunctival cavity with anophthalmia.

Topic 8. Plastic surgery for age-related changes in the eyelids.

Topic 9. Plastic and reconstructive surgery of lacrimal organs.

Topic 10. Plastic and reconstructive surgery of corneal damage

Topic 11. Plastic sclera during reconstructive eye operations

Topic 12. Keratoprosthesis.

Topic 13. Iridoplasty

Topic 14. Plastic and reconstructive surgery for burns of the eyeball and its appendages.

Topic 15. Plastic and reconstructive surgery for tumors of the eyeball and its appendages.

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.nbuv.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.