

**Ministry of Health of Ukraine
Bogomolets National Medical University**

**GUIDELINES
for independent work of students**

**Academic discipline
"Ophthalmology"
Educational level "Master"
Field of knowledge 22 "Health care"
Specialty 222 "Medicine"
Department of Ophthalmology**

Kyiv - 2024

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Approved at the meeting of the Department of Ophthalmology from “29” August 2024 year, protocol No.1

Head of the Department, Doctor of Medicine, Professor Zhaboiedov D.G.

Considered and approved: Central Committee on Surgical Disciplines from _____ 202_, protocol No. __

2. The subject of the lesson "**Anatomy and physiology of eye**".

3. Competencies .

After studying the topic, students should **know:** anatomical and topographic features and functions of the organ of vision: the eyeball, the auxiliary apparatus of the eye, leading and central elements of the visual analyzer; **to be able to:** clearly recognize the anatomical elements of the organ of vision during clinical, radiological, ultrasound and tomographic examinations.

4. Didactic goal - expansion, deepening and detailing of scientific knowledge obtained by students at lectures and in the process of independent work and aimed at increasing the level of assimilation of educational material, instilling skills and abilities, development of scientific thinking and oral speech of students.

5. Number of classroom hours: 1 hour.

6. Equipment: tables, drawings, videos, mannequins, table lamp, magnifying glass, disinfecting means for handling hands.

Lesson plan:

No	The name of the stage	Description of the stage	Levels of learning	Time
1.	Preparatory (15%). Methodological support materials: questions, problems of the II level, written theoretical tasks, tests of the II level.	<ol style="list-style-type: none"> 1. Organization of the lesson. 2. Setting educational goals, motivation of the topic. 3. Control of the initial level of knowledge, skills, abilities: <ol style="list-style-type: none"> 1) anatomical and topographic features of the eyeball; 2) anatomical and topographic features of visual pathways; 3) anatomical and topographic features and physiology of the eyelids; 4) anatomical and topographic features and physiology of the connective (mucous) membrane; 5) anatomical and topographic features and physiology of the lacrimal apparatus; 6) anatomical and topographic features of the orbit; 7) blood supply and innervation of eye. 	II	6 min.
2.	Basic (65%). Methodological support materials: atypical tasks in the form of: text situational tasks, business game; algorithms of formation of professional skills.	<ol style="list-style-type: none"> 1. Formation of professional skills and abilities: <ol style="list-style-type: none"> 1) to study the anatomical and topographic features of the organ of vision and its physiology; 2) clearly recognize the anatomical elements of the organ of vision during clinical, X-ray, ultrasound and tomographic examinations. 	III	30 min.
3.	Final (20%). Methodological support materials: textual situational problems, level III tests, indicative map of independent work with literature.	<ol style="list-style-type: none"> 1. Control and correction of the level of professional skills and abilities. 2. Summary of lessons (theoretical, practical, organizational). 3. Homework: educational literature on the topic (main, additional). 	III	9 min.

7. Recommended literature:

Basic

1. Zhaboyedov G.D., Kireev V.V. Ophthalmology: practicum: educational guide. - K.: VSV "Medicine", 2013. - 280 p.
2. "Ophthalmology" textbook /OP Vitovska et al.; K.: " Medicine ", 2017. - 648 c.

Auxiliary

1. Wills Clinic. Diagnosis and treatment of eye diseases / Ed. Douglas Cullom and Benjamin Chang - Lviv: Medicine of the World, 2019. - 504 p.
2. Augusta Azuara-Blanco and others. Glaucoma terminology and guidelines. 5th edition. – 2021, 170 p.
3. Wenger G.Yu., Soldatova A.M., Wenger L.V. Ophthalmology. Course of lectures. – 2010., 180 p.
4. Zavorodnia N.G., Sarzhevskaya L.E., Ivakhnenko O.M. etc. Anatomy of the eye. Research methods in ophthalmology: teaching. manual for medical students. facts. - Zaporizhzhia, 2017. - 76 p.