

**Ministry of Health of Ukraine
Bogomolets National Medical University
DEPARTMENT OF OPHTHALMOLOGY**

“Approved”
at the meeting of
the Department of Ophthalmology
protocol No.1
from “01” September 2025

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

**GUIDELINES
for independent work of students
For the lesson "Glaucoma"**

Academic discipline "Ophthalmology"
Educational level second "Master"
Field of knowledge 22 "Healthcare"
Specialty 222 "Medicine"

Author:
prof. Vitovska O.P.

Kyiv – 2025

2. The topic of the lesson "**Glaucoma**".

3. Competencies.

After studying the topic, students should **know:** methods of intraocular pressure research; classification of glaucoma; clinical picture of different forms of glaucoma and principles of glaucoma treatment; clinical picture, emergency care of an acute attack of glaucoma, differential diagnosis of an acute attack of glaucoma with acute iridocyclitis; **be able to:** determine intraocular pressure by palpation; evaluate tonometry data according to Maklakov; provide emergency care in case of an acute attack of glaucoma; assess the size of the cornea in newborns.

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: 4,25 hours.

6. Equipment: tables, drawings, video, Maklakov's tonometer, table lamp, magnifying glass, slit lamp, gonioscope, 0.5% alkaine solution, 0.25% chloramphenicol solution, box with sterile material, disinfecting means for treating 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.	1. Organization of the lesson. 2. Setting educational goals, motivation of the topic. 3. Control of the initial level of knowledge, skills, abilities: 1) methods of studying intraocular pressure (IOP); 2) etiopathogenesis of glaucoma; 3) glaucoma research methods; 4) classification of glaucoma; 5) clinical picture of open-angle and closed-angle forms of primary glaucoma; 6) glaucoma treatment methods (drug, laser, surgical);	II	28 min.

		7) etiopathogenesis, clinic, principles of treatment of congenital glaucoma; 8) types of secondary glaucoma; 9) clinical picture of an acute attack of glaucoma and differential diagnosis with acute iridocyclitis; 6) emergency care for an acute attack of glaucoma.		
2.	Basic (65%). Methodological support materials: atypical tasks in the forms: patients, case histories, textual situational tasks, business game; algorithms of formation of professional skills.	1. Formation of professional skills and abilities: 1) master the skills of 'objective examination; 2) justify the diagnosis based on the results of the study; 3) conduct the patient's treatment, substantiate and make a clinical diagnosis, prescribe treatment.	III	125 min.
3.	Final (20%). Methodological support materials: textual situational problems, level III tests, results of curation of patients (medical histories); indicative map of independent work with literature.	1. Control and correction of the level of professional skills and abilities. 2. Discussion of the results of the curation of patients. 3. Summary of lessons (theoretical, practical, organizational). 4. Homework: educational literature on the topic (main, additional).	III	38 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., Sarzhevska L.E., Ivakhnenko O.M. etc. Anatomy of the eye. Research methods in ophthalmology: teaching. manual for medical students. facts. - Zaporizhzhia, 2017. - 76 p.