

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

**GUIDELINES  
for independent work of students**

**Academic discipline  
"Ophthalmology"  
Degree level "Master"  
Field of knowledge 22 "Health care"  
Speciality 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: CMC for surgical disciplines from \_\_\_\_\_ 202\_, protocol №\_\_.

2. Topic: «**Retinal and optic nerve diseases. Eye and common diseases**».

3. Competences.

After learning the topic, students should **know**: the normal fundus picture; methods of examination of the optic nerve and retina; etiology, clinic and methods of treatment of retinal detachment; etiology, clinic and principles of treatment of optic neuritis, differential diagnosis with optic disc congestion; etiology, clinic and methods of treatment of optic atrophy; clinic and methods of treatment of congenital and acquired retinal dystrophies; etiology, clinic and methods of treatment of retinal circulatory disorders; fundus changes in hypertension and diabetes mellitus; **be able to**: relate general pathology to fundus changes.

4. Didactic goal - to broaden, improve and detail the scientific knowledge received by students in lectures and in the process of independent work and directed at increasing the level of learning, training skills, developing students' scientific reasoning and oral communication.

5. Number of classroom hours: 4.25 hours.

6. The equipment includes tables, drawings, videos, a desktop lamp, a reverse ophthalmoscope, a slit lamp, an electro-ophthalmoscope, and hand sanitizers.

## Lesson plan:

№	Name of the stage	Description of the stage	Levels of learning	Time
1.	<p><b>Preliminary (15%).</b> Methodological support materials: questions, level II tasks, written theoretical tasks, level II tests.</p>	<p>1. Organisation of the lesson. 2. Formulating learning objectives, motivating the topic. 3. Control of the basic level of knowledge, skills, abilities: 1) the fundus picture is normal; 2) methods of diagnosing diseases of the optic nerve and retina; 3) etiology, clinic and methods of treatment of retinal detachment; 4) etiology, clinic and principles of treatment of neuritis, differential diagnosis with optic disc congestion; 5) etiology, clinic and methods of treatment of optic nerve atrophy; 6) clinic and methods of treatment of congenital and acquired retinal dystrophies; 7) etiology, clinic and methods of treatment of retinal blood circulation disorders; 8) fundus changes in hypertension and diabetes mellitus.</p>	II	28 min.
2.	<p><b>Basic (65%).</b> Materials of methodological support: Atypical tasks in forms: patients, medical histories, text-based situational tasks, business games; algorithms for developing professional skills.</p>	<p>1. Formation of professional skills and abilities: 1) learn the skills of objective examination; 2) explain the diagnosis based on the results of the study; 3) to supervise the patient, substantiate and make a clinical diagnosis, and prescribe treatment.</p>	III	125 min.
3.	<p><b>The final one (20%).</b> Materials of methodological support: textual situational tasks, level III tests, results of patient supervision (medical histories); an</p>	<p>1. Control and correction of the level of professional skills and abilities. 2. Discussion of the results of patient supervision. 3. Review of the class (theoretical, practical, organisational).</p>	III	38 min.

	approximate map of independent work with literature.	4. Homework: educational literature on the topic (main, additional).		
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## 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.