

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

“Approved”
at the meeting of
the Department of Ophthalmology
protocol No.1
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Head of the Department,
Doctor of Medicine, Professor
Zhaboiedov
D.G. _____

GUIDELINES
for independent work of students
For the lesson "Pathology of lens"

Academic discipline "Ophthalmology"
Educational level second "Master"
Field of knowledge 22 "Healthcare"
Specialty 221 "Dentistry"

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2. Topic of the lesson “**Pathology of lens**”.

3. Competencies .

After studying the topic, students should **know**: lens examination methods; cataract clinic; differential diagnosis of cataract and glaucoma; drug treatment and indications for surgical treatment of cataract; types of violations of the position of the lens and the principles of their treatment; anomalies of lens development; **be able**: examine the lens; diagnose cataract .

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: 2.25 hours.

6. Equipment: tables, drawings, videos, slit lamp, reverse ophthalmoscope, table lamp, magnifying glass, electroophthalmoscope , 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 diagnosing diseases of the lens; 2) etiopathogenesis and classification of cataract; 3) clinical signs of cataract; 4) differential diagnosis of cataract and glaucoma; 5) drug treatment of cataract; 6) etiopathogenesis, clinical signs and principles of treatment of congenital cataracts; 7) indications and methods of surgical treatment of cataract.	II	15 min.

2.	Basic (65%). Methodological support materials: atypical tasks in the form of: patients, case histories, textual situational tasks, business game; algorithms for the 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	66 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	20 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. Zavhorodnia 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.