

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 "Pathology of cornea"

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

Author:
Associate Professor Komarova T.M.

Kyiv – 2025

2. Topic of the lesson "**Pathology of cornea**".

3. Competencies .

After studying the topic, students should **know:** corneal examination methods; classification of keratitis; clinic and consequences of keratitis; principles of keratitis treatment; anomalies of the development of the cornea; **to be able to:** examine the cornea using the lateral illumination method; determine the sensitivity of the cornea; diagnose keratitis.

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: 3 hours.

6. Equipment: tables, drawings, video, table lamp, magnifying glass, slit lamp, 1% fluorescein solution, boxes 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) cornea research methods; 2) classification of keratitis; 3) etiology, clinic and principles of keratitis treatment; 3) etiology, clinic and principles of treatment of creeping corneal ulcer; 4) consequences of keratitis, methods of treatment; 5) etiology, clinic and methods of treatment of anomalies of corneal development.	II	20 min.

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	88 min.
3.	Final (20%). Methodological support materials: textual situational problems, level III tests, results of examination 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 examination of patients. 3. Summary of lessons (theoretical, practical, organizational). 4. Homework: educational literature on the topic (main, additional).	III	27 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., 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.