

OPHTHALMOLOGY TRAINING PROGRAM

(3 weeks)

YEDİTEPE UNIVERSITY EYE CENTER

Head of the Department of Ophthalmology: Şule Ziylan, MD Prof.

Belkıs Ilgaz Yalvaç, MD Prof.

Raciha Beril Küçümen, MD Prof.

Yaprak Banu Ünver, MD Assoc. Prof.

Vildan Öztürk, MD Assist. Prof., Clerkship Training Coordinator

Muhsin Altunsoy, MD Assist. Prof.

İlke Bahçeci Şimşek, MD Assist. Prof.

Alp Kayıran, MD Ophthalmologist

Oğuzhan Turan, MD Ophthalmologist

CLERKSHIP	OPHTHALMOLOGY <i>Aim of this clerkship is to;</i>
AIM	1. convey necessary knowledge on pathology, symptomatology, clinics and pharmacology of eye diseases
<i>At the end of this term, student should be able to:</i>	
KNOWLEDGE	1. describe anatomy of eye and appendages and orbit,
	2. classify refractive errors and different methods of treatment
	3. describe pathologies of the cornea, conjunctiva, lacrimal system, eyelids and the orbit, mechanisms of occurrence, signs and symptoms, methods of examination and ancillary tests, and treatment options of these pathologies
	4. describe signs and symptoms of different lenticular diseases including cataracts, indications and methods of surgical treatments,
	5. explain mechanisms of occurrence, diagnostic and treatment methods and pharmacology of various glaucoma types,
	6. classify uveitis syndromes with respect to affected anatomical sites, signs and symptoms and describe different treatment options
	7. describe mechanisms of occurrence, signs and symptoms, methods of examination and ancillary tests, and treatment options of vascular and age related diseases of retina,
	8. describe pathophysiology, risk factors, signs and symptoms, preventive measures and different treatment methods of retinal detachment,
	9. describe signs, symptoms and examination methods of neuroophthalmological diseases, interpret relationship with neurological diseases and anatomical locations of lesions.
	10. describe signs, symptoms and examination methods of pediatric ophthalmological diseases and strabismus types and classify the treatment options.

SKILLS	<ol style="list-style-type: none"> 1. Visual Acuity; Student should understand principles of visual acuity measurement and be able to measure and record far and near visual acuity in adults and children 2. Pupillary Reaction Testing; Student should be able to measure the 3. pupillary size and assess the direct, consensual pupillary reaction and relative afferent pupillary defect (RAPD). 4. Ocular Motility Testing; Student should be able to assess ocular motility in the six primary directions. 5. Direct Ophthalmoscopy; Student should be able to perform direct ophthalmoscopy by testing the patient's right eye with the ophthalmoscope held in the examiner's right hand, left eye with the examiner's left hand. The student should be able to identify the difference between retinal arterioles and retinal venules, the normal appearance of the optic nerve head and macula. 6. Putting In Eye Drops and Pupillary Dilatation Putting In Eye Drops and Pupillary Dilatation; Student should be able to follow the steps for putting in eye drops either for treatment or for pharmacologically dilating the pupils in order to facilitate the examination of the fundus. 7. Confrontation Field Testing; Student should be able to perform the technique for determination of confrontation of visual field. 8. Upper Lid Eversion; Student should be able to evert the upper lid to examine for foreign bodies. 9. Irrigation of eyes; Student should be able perform copious irrigation of eyes, fornices as an emergent treatment in case of chemical burns.
ATTITUDES	<i>value</i> impact of eyes diseases on personal health,
COMPETENCIES	1. <i>differentiate</i> eye diseases
	2.1 <i>judge</i> systemic conditions to refer patients to ophthalmologists, 2.2 <i>schedule</i> intervals for routine eye examinations for different age groups, 2.3 <i>direct</i> patients to ophthalmologist
	3. <i>manage</i> and <i>perform</i> urgent interventions in cases of eye trauma and chemical burns

Ophthalmology clerkship is conducted in Yeditepe University Eye Health Center, Balmumcu for three weeks. During this period students will be attending lectures, invited speakers' lectures, patient examinations, grand rounds, case presentations, operating rooms, workshops, discussion classes as well as student seminars and independent study hours.

The first day students will be oriented by the ophthalmologist in charge. The last day, after the exam, the exam questions and the clerkship will be evaluated with students by the ophthalmologist in charge or the examiners.

Clerkship guide booklet including detailed schedule and essential information will be handed to students on the first day of clerkship.

ASSESSMENT TABLE

This table shows question types and assessment methods/tools used in training program.

Questions Types (Pencil-PaperTests)	Proportion (in Pencil-Paper Tests)
Multiple Choice Questions	80%
Extended Matching Questions	10%
Key Feature Questions	10%
Total	100 %
Other Assessment Methods and Tools	Proportion (in Pass/Fail Decision)
Structured Oral Exam (SOE)	35%
Objective Structured Clinical Exam (OSCE)	5%
Logbook and Evaluation of Student's Seminar	5%
Case Based Learning (CBL)	5%
Total	50 %
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Pencil-Paper Tests	50%
Other Assessments Methods and Tools	50%

Week 1

	Monday	Tuesday	Wednesday	Thursday	Friday
09.00- 09.50	Introductory Session (Introduction to Ophthalmology)	Clinical Experience ¹ (Outpatient)	Case Based Learning ⁴ Red Eye Vildan Öztürk - İlke Şimşek	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)
10.00- 10.50 11.00-11.20	Clinical Experience ¹ (Outpatient)				
11.30- 12.00					
12.00- 12.50	Lunch	Lunch	Lunch	Lunch	Lunch
13.00- 13.50	Lecture ³ Anatomy1 Muhsin Altunsoy	Lecture ³ Refractive Errors Alp Kayıran	Lecture ³ Contact Lens and Refractive Surgery Vildan Öztürk	Lecture ³ Methods of Examination Muhsin Altunsoy	Lecture ³ Macular Degeneration and Hereditary Retinal Dystrophies Yaprak Banu Ünver
14.00- 14.50	Lecture ³ Anatomy 2 Muhsin Altunsoy	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)	Lecture ³ Uveal Tract Yaprak Banu Ünver
15.00- 15.50	Clinical Experience ¹ (Outpatient)				Clinical Experience ¹ (Outpatient)
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
17.00-17.50					

Week 2

	Monday	Tuesday	Wednesday	Thursday	Friday
09.00- 09.50	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)	Case Based Learning ⁴ Trauma and Emergency in Ophthalmology Vildan Öztürk - İlke Şimşek	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)
10.00- 10.50					
11.00-11.20					
11.30- 12.00	Student Group Study ²	Student Group Study ²		Student Group Study ²	Student Group Study ²
12.00- 12.50	Lunch	Lunch	Lunch	Lunch	Lunch
13.00- 13.50	Lecture ³ Conjunctiva R. Beril Küçümen	Lecture ³ Retinal Vascular Diseases R. Beril Küçümen	Lecture ³ Pediatric Ophthalmology Şule Ziylan	Lecture ³ Diseases of the Lens R. Beril Küçümen	Lecture ³ Glaucoma B. Ilgaz Yalvaç
14.00- 14.50	Lecture ³ Cornea Alp Kayıran	Lecture ³ Retinal Detachment and Intraocular Tumours Yaprak Banu Ünver	Clinical Experience ¹ (Outpatient)	Lecture ³ Lids and Orbit İlke Şimşek	Clinical Experience ¹ (Outpatient)
15.00- 15.50		Clinical Experience ¹ (Outpatient)		Clinical Experience ¹ (Outpatient)	
16.00- 16.50	Independent Learning	Independent Learning	Independent Learning	Independent Learning	Independent Learning
17.00-17.50					

Week 3

	Monday	Tuesday	Wednesday	Thursday	Friday
09.00- 09.S0	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)	Independent Learning
10.00- 10.S0					Assessment Session
11.00-11.20					Written Exam
11.30- 12.00	Student Group Study ²	Student Group Study ²	Student Group Study ²	Student Group Study ²	
12.00- 12.50	Lecture ³ Tear Film and Lacrimal Apparatus İlke Şimşek	Lecture ³ Neuro-Ophthalmology B. Ilgaz Yalvaç	Lecture ³ OcularManifestations of SystemicDiseases R. Beril Küçümen	Clinical Experience ¹ (Outpatient)	Lunch
13.00- 13.50	Lunch	Lunch	Lunch	Lunch	Assessment Session Oral Exam
14.00- 14.S0	Lecture ³ Strabismus Şule Ziylan	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)	Clinical Experience ¹ (Outpatient)	
15.00- 15.50	Clinical Experience ¹ (Outpatient)				Independent Learning
16.00- 16.50	Independent Learning				
17.00-17.50	Independent Learning				

¹ The schedule of clinics that students are assigned will be announced during introductory session.

² During group study hours students will be presenting the previous day's lecture to each other respectively.

³ Each lecture contains a 5 minutes student presentation about a given subject related to lecture. The subjects will be announced during introductory session.
-Ophthalmology Secrets in Color by Janice A. Gault MD and James Vander MD will be handed over to each student as reference book. The textbooks should be returned on the last day of clerkship.

⁴ Case Based Learning session's details will be presented during introductory session and in clerkship guide booklet.