



TEHRAN UNIVERSITY OF MEDICAL SCIENCES

Program Curriculum

School: School of Medicine

Department: Department of Ophthalmology

Curriculum: Attached

Major: Vitroretinal Fellowship

Level: Fellowship

Course Location(s): Farabi Eye Hospital

Course Description:

The program is planned to take 18 months. However, considering the capabilities and skills of the applicant, ascertained by the Retina Service interviewing board, a preparation period of maximum six months, may apply prior to the beginning of the fellowship program to familiarize the candidate with hospital facilities and help them gain the necessary skills to begin with main fellowship program.

Course Objectives:

The fellow will gain ability in the diagnosis of diseases of the retina, vitreous, and choroid. Additionally, they will be able to perform surgical, medical, and laser treatment of retinal and choroidal diseases. As a researcher, the fellow will be able to critically appraise clinical and scientific publications, and successfully carry out a research project that can be presented at national or international meetings and published in a peer-reviewed journal.

Method of Instruction:

Clinical Responsibilities

1. Surgical Retina

Operating Room One in Farabi Eye Hospital with seven active operating tables, seven high speed vitrectomy machines, state of art surgical microscopes with wide angle viewing systems and recording instruments, and brachytherapy facilities for ocular tumors, is dedicated to vitreoretinal procedures. Two additional operating tables in Operating Room Four of Farabi Eye Hospital (Emergency Department Operating Room) are also dedicated to vitreoretinal surgeries. About 2,500 intravitreal injections, more than 380 vitrectomy and 30 scleral buckling procedures are performed monthly.

The preoperative (including active role in treatment planning), intraoperative and postoperative management of patients are among responsibilities of the fellow. The fellow will participate in vitreoretinal surgeries and laser procedures, including pneumatic retinopexy, scleral buckling, 20, 23, and 25 gauge vitrectomy systems, intravitreal injections, and laser treatment for various eye diseases. Surgical training provides experience in the management of complex retinal detachments (giant retinal tears, traumatic retinal detachments, proliferative vitreoretinopathy, advanced proliferative diabetic retinopathy, and pediatric retinal detachments), intraocular foreign bodies, ablative therapy of intraocular tumors, and biopsy of retina and choroid. The fellow will also assist on or sometimes supervise surgeries performed by a resident.

2. Medical Retina

There is a weekly Retina Case Presentation Conference, at which particularly interesting cases are prepared and presented by residents or fellows. In retina weekly Journal Club, selected recent publications concerning medical or surgical retina/uveitis topics are presented by the residents or the fellows and critically appraised by the faculty and the fellows. The retina fellows are also expected to actively attend and have periodic presentations in weekly Farabi Eye Hospital conference. The fellows may contribute in teaching and evaluating the residents. Fellows will take part in visiting and managing patients in Retina Consulting Clinic as well as in Retina Follow-up Clinics. In addition, there are active Oncology, Uveitis, Electrophysiology, and Retinopathy of Prematurity Clinics at Farabi Eye Hospital in which the fellows will gain experience as assisting or managing physician under the supervision of the faculty.

3. On Call Schedule

Farabi Eye Hospital has the most loaded ophthalmic emergency department in Iran. The graduates of the Hospital are known nationally for their skills and expertise in managing trauma patients. The fellow will be involved in the management of the patients in the Emergency Department including posterior segment trauma patients, either as treating or supervising physician.

Research Responsibilities

The fellows have opportunities to participate in research projects at Eye Research Center of Farabi Hospital. In particular, fellows are expected to accomplish at least one research project under the mentorship of the faculty during the course of the fellowship.

Course Instructor(s):

- Reza Karkhaneh, M.D.; Professor of Ophthalmology
- Hooshang Faghihi, M.D.; Professor of Ophthalmology
- Alireza Lashay, M.D.; Professor of Ophthalmology
- Mohammad Riazi Esfahani, M.D.; Professor of Ophthalmology
- Ahmad Mirshahi, M.D.; Professor of Ophthalmology
- Seyed-Ali Tabatabaei, M.D.; Associate Professor of Ophthalmology
- Morteza Movasat, M.D.; Professor of Ophthalmology
- Mohammad Reza Mansouri, M.D.; Professor of Ophthalmology
- Ali Abdollahi, M.D.; Professor of Ophthalmology
- Ramak Roohipour, M.D.; Associate Professor of Ophthalmology
- Fariba Ghassemi, M.D.; Associate Professor of Ophthalmology
- Alireza Khodabandeh, M.D.; Assistant Professor of Ophthalmology
- Mohammad Zarei, M.D.; Assistant Professor of Ophthalmology

Course Instructor(s) CV: <http://farabieye.tums.ac.ir/node/113>

Who can attend:

Requirements:

- A degree in medicine approved by the Office of Vice-Chancellor for Global Strategies and International Affairs of Tehran University of Medical Sciences
- A degree in ophthalmology approved by the Office of Vice-Chancellor for Global Strategies and International Affairs of Tehran University of Medical Sciences
- Evaluation of applicant academic documents including curriculum vitae
- Personal interviews

Course Duration: 18 months

Contact person

Dr. Ramak Roohipour

E-mail: farabiadmission@tums.ac.ir