

SHORT TERM TRAINING IN VITRECTOMY (Virtual)



TIFAC - CORE ALCON SIMULATOR FOR SURGICAL TRAINING

Alcon[®]



TIFAC-CORE



(TECHNOLOGY INFORMATION, FORECASTING & ASSESSMENT COUNCIL
CENTRE OF RELEVANCE AND EXCELLENCE)
IN DIABETIC RETINOPATHY



ARAVIND EYE HOSPITAL-MADURAI



ARAVIND EYE CARE SYSTEM

Introduction

Aravind Eye Hospital and Postgraduate Institute of Ophthalmology in collaboration with Technology Information, Forecasting and Assessment Council (TIFAC) - Department of Science and Technology, Government of India, has created TIFAC - CORE (Centre Of Relevance and Excellence) in Diabetic Retinopathy which focuses towards better management of diabetic retinopathy. This center with the state-of-the-art facilities imparts high quality education and training in the areas of diabetic retinopathy. In collaboration with ALCON Laboratories Inc, a pioneer in surgical equipments, TIFAC CORE has set up a center for surgical training in vitrectomy using the most advanced Surgical Simulator giving real hands on experience to the trainee.

Need for this training

Retinal diseases are likely to become a major cause of blindness in the developing world. With the increase in the diabetic population, the number of Diabetic Retinopathy patients and their associated complications is on the rise, and at the same time facing a severe resource scarcity to manage these complications. Among the 11,000 ophthalmologists in India, only 7-8% of them are trained in the management of Vitreo-Retinal diseases. According to the Vitreo Retinal society membership directory, only 375 retinal specialists are registered, among whom only around 150 are practicing VR surgeons. Currently the opportunity to have hands on training for these surgeries is very limited due to the nature of the disease and the intricacy of the surgery. This limits the opportunity to learn vitreoretinal surgery. So in this background it is important to have alternate mode of hands on experience for the trainees. This is now offered in the form of a simulator training offered at this training center. Aravind Eye care System offers this Short Term Training in Vitrectomy which is the first of its kind in Asia. The main objective of this training program is to fine tune the candidates in pars plana vitrectomy surgery as well as the maintenance of the vitrectomy machine.

Training facilities

TIFAC - Alcon Vitrectomy Training Centre attached to the well established Retina - Vitreous service has an excellent group of teaching faculty with all the necessary infrastructure and to provide excellent training in vitrectomy surgical techniques supported by EYESI Simulator.

EYESI Simulator

Training is given with the help of EYESI ophthalmosurgical simulator which gives very realistic hands on surgical experience. One can manipulate different surgical instruments like in real time surgery. It has basic training modules for the beginner and advanced training modules in handling various pathological conditions for the experts. These include posterior vitreous detachment induction, epiretinal membrane peeling, internal limiting membrane peeling, endolaser training module apart from the basic modules like navigation training, forceps training, vitrector training and anti-tremor training modules. In addition, the simulator also has the BIOM with SDI so as to get the candidate experienced in wide field vitrectomy.

Wet Lab

- Instructor's table with instrument sets
- Microscope with a camera connected to an LCD screen for viewing
- Trainee's table with instrument sets
- Table mounted microscopes with side-viewing attachment
- Vitrectomy Simulator
- Vitrectomy Machine

Library

- Reference books on vitrectomy
- Videos, CD's and DVD's on vitrectomy surgeries will be provided to the candidates
- Audio Visuals on vitrectomy procedures

Teaching curriculum

The course is designed to ensure that the candidate gains proficiency in

- Training in basic technique of vitrectomy
- Training in performing basic and advanced pars plana vitrectomy surgery
- Training in the maintenance of the vitrectomy machine.
- Didactic Lectures

Course Duration - 2 weeks

Course Schedule

This training programme is divided into two sections as follows:

- First session: Observation/Second Assistant in Retina Operation theater
- Second session: Working with EYESI ophthalmosurgical vitrectomy simulator in Wet Lab and didactic lectures

Didactic lectures will be on the following

- Vitreoretinal surgical anatomy
- Instrumentation including vitrectomy machine
- Sterilisation techniques
- Visualisation techniques during vitrectomy
- Basic surgical techniques in vitrectomy
- Techniques in diabetic vitrectomy and Proliferative vitreoretinopathy
- Vitreoretinal surgery for idiopathic epiretinal membranes
- Surgical treatment of Macular holes
- Management of dislocated intraocular lens
- Management of Endophthalmitis

Eligibility Criteria

- Candidates who have undergone long-term training in Vitreo-Retinal Surgery to get trained in basic and advanced surgical techniques.
- Vitreo-Retinal surgeons who are not currently practicing but would like to set up a Vitreo-Retinal surgery unit and to refine their surgical skills.
- Candidates from other developing countries are also eligible.
- The candidates should apply in the prescribed application form and will be admitted after scrutinising their credentials and certificates.
- Two candidate per month are selected
- This course is currently offered at Madurai and Coimbatore

Course fee

Rs. 10,000/- (for India & Nepal candidates)

US\$500 (for International participants)

(18% GST is applicable to the course fee)

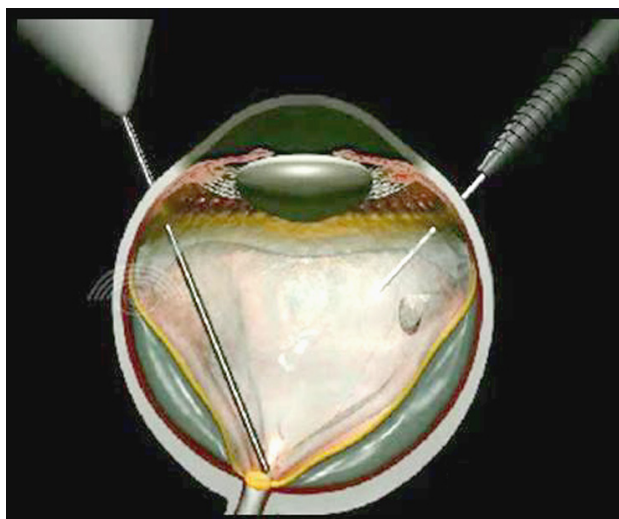
Accommodation Tariff

Accommodation will be provided for the selected candidates at Inspiration (Trainee Hostel).

Please click here to view the information about tariff and other details of [inspiration](#).

Food

Food is served at the hostel itself and includes break-fast, lunch and dinner (local Indian menu). On Sundays, only breakfast will be provided. However there are number of good restaurants located within walking distance. Food expenses are separate and can be paid at the Inspiration mess on a monthly basis.



For further details, Contact

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CORE Faculty

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