“Fellowship Course in VITREO RETINAL SURGERY (FVRS)”

Aditya Jyot Eye Hospital Pvt. Ltd. has announced the fellowship course in vitreo retinal surgery.

Course Fee and Duration:
Rs.1, 00,000/- for 18th Months course

Eligibility:
Candidates should have passed Diplomate of National Board (DNB) Ophthalmology or MS/MD in Ophthalmology under recognized medical collages in India by Medical Council of India (MCI)

Basic Subjects:
History taking relevant to Vitreo-retinal Diseases ,Methods of fundus examination Ultrasonography-theory, technique and interpretation ,Fundus Fluorescein Angiography – Theory, Technique and interpretation Electro diagnostic studies – Electro retinography, electro oculography and Visually evoked potentials-theory, technique and interpretation, Photocoagulation-TheorY, and Principles Anatomy: Surgical anatomy of posterior segment (pars plana, vitreoretinal relationships, Ultra structure of retina and vitreous and other relevant anatomy, Physiology of posterior segment.

Medical Retinal Diseases
Vascular retinopathies:
1. Diabetic Retinopathy
2. Eales’ disease
3. Sickle cell retinopathy
4. Vascular occlusions
5. Ocular Ischemic Syndrome
6. Coat’s disease

Degenerative Diseases of Retina:
1. Retinitis Pigmentosa and Variants
2. Gyrate atrophy
3. Choroideremia
4. Retinoschisis and other retinal degenerative diseases

Retinal detachment and related disorders: (Clinical Diagnosis, differential diagnosis, predisposing factors, etiology):
1. Rhegmatogenous retinal detachment
2. Tractional retinal detachment
3. Exudative retinal detachment

Congenital and childhood disorders:
1. Persistent hyperplastic primary vitreous
2. Retinopathy of prematurity
3. Familial exudative vitreoretinopathy
4. Norrie’s disease, congenital retinal dysplasias and other causes of congenital retinal detachments
5. Colobomata of choroids and disc

**Infective and related conditions:**

1. Endophthalmitis
2. Toxocara retinochoroiditis
3. Viral Retinitis
4. AIDS and the eye
5. Other parasitic diseases like cysticercosis, Gnathostomiasis etc

**Oncology:**

1. Retinoblastoma
2. Melanoma
3. Cilinary body tumors
4. Phacomatoses
5. Optic nerve head tumors
6. Miscellaneous – choroidal hemangioma, ocular lymphomas, secondaries, combined hamartoma, hemangloma of retina

**Vitreous disorders:**

1. Hemorrhage
2. Asteroid hyalosis
3. Posterior Vitreous Detachment
4. Vitreoretinal interface disorders like epiretinal membranes and macular holes

**Anterior Segment disorders of Importance to Vitreoretinal surgeons**

1. Dislocated lens
2. Dislocated IOL
3. After Cataract and other pupillary membranes
4. Irvine Gass syndrome and Vitreous wick syndrome
5. Complicated Cataract
6. Malignant Glaucoma

**Macular disorders:**

1. Macular hole
2. Heredomacular diseases
3. Epimacular Proliferation
4. Age related macular degeneration and other causes of Choroidal
5. Neovacular membrane
6. Cystoid macular edema
7. Macro aneurysm
8. Idiopathic parafoveal telagiectasia

**Traumatic disorders:**

1. Globe rupture
2. Double perforations
3. Intraocular foreign body

**Surgery for Vitreoretinal Diseases**

**Basic:**

1. Instrumentation for scleral buckling and vitreoretinal surgery
2. Infusion fluids and buckle materials
3. Vitreous substitutes – SF6, C3 F8, Silicone oil, perfluoro carbon liquid
4. Techniques of scleral buckling – Implant, explant techniques
5. Pneumatic retinopexy
6. Basic vitreous surgery
7. Membrane removal techniques
8. Fluid air exchange
9. Endolaser and endocryo
10. Retinotomies and retinectomies

**Surgical Management of Specific diseases:**

1. Giant retinal tear with RD
2. Retinal detachment with Proliferative Vitreoretinopathy
3. Complications of Proliferative diabetic retinopathy
4. Macular hole
5. Epimacular proliferation
6. Submacular surgery
7. Retinopathy of prematurity
8. Retinoschisis
9. Endophthalmitis
10. Dislocated lens, nucleus, IOL
11. Intraocular cysticercosis and other parasites
12. Traumatic complications such as vitreous hemorrhage, dialysis, GRT and tractional and combined retinal detachment, IOFB.
13. Combined penetrating Keratoplasty and Vitreoretinal surgery
14. Miscellaneous – Ectatic scleral disorders, eye wall resection
**Practical Exposure to the following techniques is required**

**Examination techniques:**

1. Direct Ophthalmoscopy
2. Indirect Ophthalmoscopy with scleral indentation
3. Slit lamp biomicroscopy using +78 or +90d lens and contact lenses such as Goldmann, Mainster, Panfundoscopic lens
4. Routine Ophthalmological examination techniques including slit lamp examination, applanation tonometry, Gonioscopy etc

**Special Investigations:**

1. B-Scan Ultrasonography
2. Fundus fluorescein angiography / indocyanine green angiography
3. Indocyanine green angiography
4. Optical coherence tomography
5. Electro diagnostic studies
6. Transillumination

**OPD Procedures:**

1. Paracentesis
2. Intra vitreal injection
3. OPD fluid air exchange
4. Laser Photocoagulation
5. Trans conjunctival cryopexy
6. Laser diopexy

**Surgical procedures:**

- Scleral buckling
- Pars plana Anterior segment procedures
- Pars plana vitreous retinal procedures for vitreous hemorrhage, Rhegmatogenous retinal detachment, TRD etc
TEACHING SCHEDULE:
• Didactic lectures – twice a month
• Journal club – once a week
• Discussion on Fluorescein Angiogram/ICG/OCT – Once a week
• Discussion on Ultrasound – Once a week
• Case presentation – once a week

What is expected of the Fellow:
* Assist all varieties of Vitreoretinal surgeries
* Assist in the outpatient department in the disposal of cases
* Take part in overall patient care
* Independently perform under supervision few scleral buckle, pars plana lensectomies, membranectomies, and simple vitrectomies.
* Perform independently photocoagulations both by slit lamps and indirect delivery method
* Aim to present at least one paper in any conference
* Maintain log book with all details as exemplified
* At least one research work leading to publication in peer reviewed journal.