

# ***Syllabus for Fellowship in Vitreo-Retinal Surgery***

The Tamil Nadu Dr. MGR Medical University, Chennai

No.69, Anna Salai, Guindy, Chennai-600032

- 1. Title:** Fellowship in Vitreo –Retinal Surgery
- 2. Course Duration:** 12 Months
- 3. Eligibility:** MS (OPhthal), MD (Ophthal) Degree given by a medical university recognized by the MCI OR a Diplomate of the National Board of Examinations – DNB (Ophthal) given by the NBE, New Delhi.
- 4. Introduction:** The fellowship course is specifically designed to train Ophthalmologists in the ophthalmic sub specialty of Vitreo-retina.

## **5. Course Objectives:**

The course objectives of this fellowship program is to train the candidates in

1. Examination with binocular indirect ophthalmoscope and fundus drawing
2. Examination with 90D lens
3. Examination with Goldmann 3 mirror lens
4. Performing and interpreting Fundus fluorescein angiograms
5. Performing and interpreting optical coherence tomography
6. Performing and interpreting B scans
7. Performing YAG laser Capsulotomy
8. Performing retinal lasers (PRP/Scatter/Focal/Grid)
9. Performing intravitreal injections
10. Performing transconjunctival cryopexy
11. Participation in screening camps for diabetic retinopathy
12. Assisting consultants in outpatient departments
13. Teaching classes for post-graduates
14. Performing Seminars and Journal clubs

15. Assisting and observing vitreo-retinal surgical procedures such as:
- a. Surgery for macular holes /ERM /VMT
  - b. Pars Plana vitrectomy for RRD with PVR
  - c. Pars Plana vitrectomy for vitreous hemorrhage with TRD

16. Assisting and performing vitreo-retinal surgical procedures such as:

- a. Scleral buckling + cryopexy
- b. Pars plana vitrectomy for RRD
- c. Pars plana vitrectomy for vitreous hemorrhage
- d. Pars plana lensectomy
- e. Surgery for dislocated lens/nucleus/intraocular lenses
- f. Scleral-fixated intraocular lenses

## **6. Logbook:**

The fellow will maintain a log book with record of his training experience, teaching schedule, Surgical Exposure etc and submit the logbook during the time of Exit Exam.

## **7. Course Methodology:**

### **1<sup>st</sup> Month:**

Orientation regarding work up of cases (performing indirect ophthalmoscopy, examination with 90 D lens and 3 mirror Goldmann lens) and maintenance of case records

### **2<sup>nd</sup> and 3<sup>rd</sup> Month:**

Performing and interpreting FFA, OCT and B scan  
Observing lasers

### **4<sup>th</sup> and 5<sup>th</sup> Month:**

Performing laser photocoagulation including pan retinal photocoagulation, focal, scatter and grid laser

**6<sup>th</sup> Month:**

Observing and performing intravitreal injections including intravitreal triamcinolone, Avastin and antibiotics

**7<sup>th</sup> to 8<sup>th</sup> Month:**

Observing and assisting surgery

**9<sup>th</sup> and 12<sup>th</sup> Month:**

Assisting and performing surgery

**8. Observership in other Institution:**

During the fellowship course the candidate will be allowed to go for exposure in another institution imparting the same fellowship for a maximum period of 2 weeks.

**9. Exit Exam:**

The Exit exam will be conducted at the end of the fellowship according to the Tamil Nadu Dr. MGR Medical University Guidelines.

**10. Recommended Books:**

1. Principles and Practice of Ophthalmology,  
Albert Jakobiec's – Third edition
2. Vitreo retinal surgery – Peyman
3. Vitreous Micro surgery – Steve Charles
4. Retina - Ryan 4<sup>th</sup> edition.