

Dr Ramana Raju's VisonTree Education Center

Curriculum for Fellowship in Subspecialty of Cornea and Refractive Surgery

Duration: 2 Years

Place: Cornea & Refractive Surgery Department - Visalakshi Nagar & VIP Road

Mentors / Consultants:

1. Dr. Madhu Uddaraju - Chief Cornea and Refractive Surgery Services
2. Dr. U V Ramana Raju - Sr. Consultant Anterior Segment
3. Dr. B Balakrishna - Consultant - Cornea & Refractive Surgery
4. Dr. Shanthi Penmetsa - Consultant - Anterior Segment & Refractive Surgery

Salient features of Fellowship:

- The candidates will be initially exposed to comprehensive ophthalmology and other sub-specialities briefly for a period of 2 months.
- They will be encouraged to diagnose, investigate and manage the routine cases.
- They will be exposed to cornea specialty which includes rotations in Microbiology, Ocular Pathology, Eye Banking, Refractive Surgeries and Research activities of the Institute.
- During the entire training program they will be encouraged to Observe, Assist and Perform surgeries like. Keratoplasty - Penetrating and Lamellar (20), SICS (50), Phaco emulsification (100), Refractive (5), Other procedures which includes Pterygium, Collagen Crosslinking, Corneal Tear Repairs, etc.(30)
- They will also be encouraged to participate in Community outreach services in form of camps.
- They will be required to present seminars, Journal clubs and other teaching activities in Institute.
- They will be motivated to attend CMEs, workshops and take up a research project and present and publish in National and International Journals.
- They will also be rotated to other Institutes like. Aravind Eye Hospital, Madurai and Cornea Department, Apollo Hospitals, Hyderabad.

Structure of Training Program

Month	Department	Clinical Activity	Surgical Activity	Education Resource	Academics	Research	Mentor
1	Brief Introduction to Organisation, Specialities and Orientation						
2	OPD Exposure	History Taking and External Examination	-	AAO BCSC Cornea and external Diseases	Cornea and Anterior Segment, Anatomy and Physiology	-	Dr Balu
3	OPD Exposure	Slit Lamp Examination and Color Coding	OT Observation	AAO BCSC Cornea and external Diseases	Ocular Microbiology and Pathology	Research Orientation Online Classes on Research methodology	Dr Balu
4	General OPD	Cataract Pre Op and Post op Evaluation	SICS Training	Wills Eye Manual Cornea Refractive and emergency chapters	Slit Lamp Examinations Techniques	Research Topic Selection	Dr Balu
5	General OPD	Cataract Pre Op and Post op Evaluation	SICS with Assistance	Online Videos and Resources	Cataract Pre-Op work up	Ethics Committee Submission and Approval	Dr Balu
6	Microbiology and Ocular Pathology	Corneal Scraping	Independent SICS	Online Videos and Resources	SICS - Surgery Steps and Complications	Enrolment of Patients	Dr Balu
7	Eye Bank	Donor Corneal Tissue Retrieval and Evaluation	Independent SICS + Pterygium	Online Videos and Resources	Cataract Post-op Care and complications	Enrolment of Patients	-
Internal Assessment -1- Cataract, Microbiology, Eye Banking and OPD Procedures							
8	Contact Lens Clinic	Soft and RGP Lens fitting	Independent SICS + TPK Observation		Contact Lens	Enrolment of Patients	Mr Karthik
9	Cornea OPD	Cornea Case Evaluation	Independent SICS + TPK with Assistance	Krachmer Cornea Volume-I	Allergic conjunctivitis	Enrolment of Patients - Mid Term Analysis	Dr Madhu
10	Cornea OPD	Corneal Investigations	SICS +TPK	Krachmer Cornea Volume-I	Keratoconus	Enrolment of Patients	Dr Madhu
11	Cornea OPD	Keratoplasty Workup and followup	SICS + TPK + CXL	Krachmer Cornea Volume-II	Microbial Keratitis	Enrolment of Patients	Dr Madhu
12	Cornea OPD	Keratoplasty Workup and followup	SICS + TPK + CXL + PKP with Assistance	Krachmer Cornea Volume-II	Penetrating Keratoplasty	Analysis of data and Results	Dr Madhu
Internal Assessment -2- Cornea, Contact Lens, Investigations, Keratoplasty							

13	Glaucoma OPD	General Exposure	Lamellar Surgery Observation, Corneal Trauma Management	Bright Bill Corneal Surgery	Keratoplasty follow-up and complication s	Analysis of data and Results	Dr Madhu
14	Cornea OPD	Lamellar Keratoplasty workup and follow-up	Lamellar Surgery with Assistance Phaco Wetlab	Online Videos and Resources Cataract Coach.com	Lamellar Keratoplasty	Manu Script preparation	Dr. Madhu
15	Cornea OPD	Lamellar Keratoplasty workup and follow-up	Lamellar Surgery + Phaco Training Kepto observation	Online Videos and Resources	Ocular Trauma And chemical injuries	Manu Script preparation	Dr. Madhu
16	Cornea OPD	Ocular Surface Disease workup and follow-up	Ocular Surface Disease Surgeries	Holand Ocular Surface Text Book	Kertoprosthe sis	Presentation at Conferences and Publications	Dr. Madhu
17	Cornea OPD	Ocular Surface Disease workup and follow-up	Phaco	Siebel Phaco	PUK and Other Corneal diseases	Presentation at Conferences and Publications	Dr. Madhu
18	Cornea OPD	Kertaoprosth is Work up and follow-up	Phaco	David Chang Phaco	Refractive Surgery workup	Research Guidance for Juniors	Dr. Madhu
Internal Assessment -3- Phaco, Lameller Surgeries and Ocular Surface Procedures							
19	Refractive Surgery OPD	LASIK Work up and follow-up	Lasik Observation	AAO BCSC Refractive Surgery	LASIK and PRK	Research Guidance for Juniors	Dr. Shanthi
20	Refractive Surgery OPD	LASIK Work up and follow-up	Lasik with Assistance	AAO BCSC Refractive Surgery	Femto Procedures	Research Guidance for Juniors	Dr. Shanthi
21	Refractive Surgery OPD	ICL Work up and follow-up	ICL Observation	Online Videos and Resources	ICL Work up and surgery	Preparation of Clinical Educational Videos	Dr. Shanthi
22	Cornea & Refractive Surgery OPD	Independent Management of OPD	ICL with Assistance	Online Videos and Resources	-	Preparation of Patient Educational Videos	Dr. Shanthi
Internal Assessment -4- Refractive Surgery and Recent Advances							
23	Peripheral Postings - Aravind Eye Hospital, Madurai and Apollo Hospital, Hyderabad	15 days each peripheral Posting	-	Indepen t Monogram by Fellow	-	-	-
24	Cornea & Refractive Surgery OPD	Independent Management of OPD	All Surgeries independ ently	Teaching for Residents	-	-	Dr. Madhu
Final Assessment and Fellowship Completion							