

## SHORT TERM OBSEVERSHIP PROGRAM

### Synopsis

One of the key focus areas of the VISION 2020: Right to Sight program is the diagnosis and management of avoidable childhood blindness. The problem is compounded by a dearth of trained pediatric ophthalmologists, especially in developing countries.

Our program is aimed at providing comprehensive and optimal training to paediatric ophthalmologists so that children in the community receive the best possible eye care.

The course focuses on the management of strabismus (pediatric and adult), pediatric cataract, amblyopia and neuro-ophthalmology. The fellows can also imbibe a holistic approach to the management of other pediatric eye disorders, including pediatric cornea and anterior segment, pediatric glaucoma, pediatric retina and basic pediatric oculoplasty.

**Program Duration:** : 3 months

### Eligibility Criteria

MBBS/ MS/MD /FRCS in ophthalmology or equivalent .

### Program Objectives

- The pediatric ophthalmology fellow will be trained in the following areas:
  - Pediatric cataract – diagnosis, evaluation and management, surgery, postoperative care, amblyopia therapy, prescription of glasses and management of complications. The fellow will also train in genetics and pursue research in pediatric cataract.
  - Strabismus and ocular motility disorders – clinical evaluation, diagnosis, management, surgery for all kinds of strabismus, including complex strabismus. Training would be provided to handle strabismus in all age groups. The fellow will also pursue research in the area of strabismus.
  - Pediatric glaucoma – clinical diagnosis, medical and management of glaucoma, follow-up and rehabilitation
  - Pediatric corneal problems — clinical diagnosis and management of pediatric corneal problems, including metabolic diseases, corneal infections, pediatric allergic diseases, hereditary corneal dystrophies and anterior segment dysgenesis
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- Pediatric retinal disorders — including hereditary retinal diseases, retinal degeneration and retinopathy of prematurity – ROP screening and management, including diagnosis, staging, laser surgery, assisting in vitreo-retinal surgery and electro diagnostics in children
- Pediatric oncology — Diagnosis, management, research involving pediatric intra-ocular and orbital tumors, especially focussing on retinoblastoma, rhabdomyosarcomas, etc.
- Interpretation of electrodiagnostic tests and CT/MRI scans
- Refractive error and amblyopia management in children and basic low vision aids
- Neuro-ophthalmological disorders in children
- Evaluation and management of nystagmus

- Slit lamp biomicroscopy
- Applanation tonometry
- Gonioscopy direct and indirect
- Pachometry
- Keratometry
- Indirect and direct ophthalmoscopy
- Biomicroscopic indirect ophthalmoscopy
- Perimetry, including automated perimetry
- Use of Argon and Nd Y AG lasers
- Ultrasonography (A scan and B scan)
- Slit lamp photography
- Evaluation of children with strabismus, cataract, glaucoma, oculoplasty, tumor related problems and vitreo-retinal disorders

**Library:** The library is well equipped with a wide variety of books, journals and videos.

Internet access is available 24 hours a day.

Attending in-house conference(s)

### Suggested reading

Von Noorden, "Binocular Vision and Ocular Motility"

Kenneth Wright, "Colour Atlas of Strabismus surgery"

Helveston, "Atlas of Strabismus Surgery"

David Taylor, "Practical Pediatric Ophthalmology"

Arthur Rosenbaum, "Clinical Strabismus Management: Principles and Surgical Techniques"

Kenneth Wright, "Pediatric Ophthalmology and Strabismus"

Rowe, "Orthoptics"

Review articles and landmark journal articles, pertaining to the subspecialty

Wilson and Trivedi, "Pediatric Cataract Evaluation and Management"

Walsh and Hoytt, "Clinical Neuro-ophthalmology", 5th edition

Peter Netland and Anil Kumar Mandal, "Textbook of Pediatric Glaucoma"

Gerard, "Prerequisites in Oculoplasty"

Landmark journal articles relating to the speciality