



## Singapore National Eye Centre

11 Third Hospital Avenue Singapore 168751  
Tel: (65) 6227 7255 Fax: (65) 6227 7290  
www.snec.com.sg  
Reg No 198900840W

### SNEC ADVANCED SURGICAL TRAINING PROGRAMME - STRABISMUS & PAEDIATRIC OPHTHALMOLOGY ROTATION

#### PURPOSE AND OBJECTIVES

To train our registrars undergoing the 6 months subspecialty rotation such that they are confident and able to provide a high standard of care for patients with strabismus or paediatric ophthalmic conditions.

#### PROGRAMME OUTLINE

The advanced trainee should spend at least 40% of his/her time in the subspecialty.

**a. Clinics**

Time will be allocated for outpatient clinic sessions in the subspecialty (both private and subsidized) with different consultants/designated senior registrars.

**b. Operating Theatre**

The trainee will also spend time in the operating theatres, first observing/assisting and later, according to ability and opportunity, to perform certain operations under supervision. He/She should review cases before and after each operation.

**c. ROP Screening**

He/She will be taught to do the weekly ROP screening at the neonatal wards and to know when to refer for treatment.

**d. CME/Resident/Medical Student teaching**

The advanced trainee is expected to take an active role in the education and research programmes of the subspecialty, especially in the monthly subspecialty meetings.

**e. Research papers/Publications**

He/She is encouraged to write a subspecialty paper for presentation/publication during the 6 months' rotation.

**f. Community Service**

There may be opportunity to visit and help screen for eye problems in special schools.

**SNEC Registrars on subspecialty rotation are expected to acquire the following skills:**

1. Evaluation of visual function in the neonate and infant; and retarded children.
2. Evaluation of visual function in the literate and older child.
3. Refraction in children including with cycloplegia.
4. Examination of the premature neonate for retinopathy of prematurity and subsequent follow-up management.
5. Management of ophthalmia neonatorum.
6. Evaluation of congenital / juvenile cataract.
7. Evaluation of congenital anomalies of the eye with knowledge of common syndromes including systemic signs and genetic inheritance.
8. Evaluation of developmental glaucoma.
9. Evaluation of retinoblastoma including management options available and knowledge of genetic inheritance and counseling.
10. Evaluation of strabismus using sensory and motor assessment e.g. stereoacuity tests, 9 gaze position measurements.
11. Management of simple squints including Congenital Esotropia, Accommodative Esotropia, Intermittent Exotropia.
12. Evaluation of various eye conditions using the red reflex.
13. Management of amblyopia e.g. Spectacles, different forms of occlusion, penalization, vision training.
14. Differential diagnosis of the white pupil.
15. Evaluation of the more common types of complicated strabismus e.g. congenital superior oblique palsy, sixth nerve palsy, Duane's syndrome.
16. Evaluation of head turn/tilt.
17. An understanding of the common principles of inherited and genetic disorders and the modes of inheritance e.g. albinism, retinoblastoma, aniridia, incontinentia pigmenti, retinitis pigmentosa.
18. Evaluation and management of children with early onset blindness including knowledge of support services available.

**The registrar should be able to perform the following surgical procedures:**

	<u>Suggested numbers</u>
Uncomplicated recess / resect strabismus surgery. )	6 - 12 (all types)
Adjustable suture techniques. )	
Probing and syringing of congenital blocked tear ducts. )	5 - 10
Examination under anaesthesia; cycloplegic retinoscopy. )	

**The registrar should endeavor to observe the following:**

Botulinum injections for blepharospasm, hemifacial spasm, strabismus. )	5
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## **DOCUMENTATION AND VERIFICATION**

- a) The trainee will keep a log of all cycloplegic retinoscopy, Hess and BSV charting surgical procedures performed during the period of training. This will be reviewed at the end of the posting.
- b) All nonclinical activities e.g. case presentations, conferences, journal club during the term should be recorded.
- c) The trainee will be assessed and a report given by the Consultant-in-charge and one other supervisor.

## **PROGRAM SUPERVISORS**

Dr Yvonne Ling  
Dr Vivian Balakrishnan  
Dr Quah Boon Long  
Dr Sonal Farvazandi

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**Endorsed by Dr Quah Boon Long, Head and Senior Consultant, Strabismus and Paediatric Ophthalmology Service.**