

Singapore National Eye Centre
MEDICAL GLAUCOMA/RESEARCH GLAUCOMA FELLOWSHIP PROGRAMME

PROGRAM DIRECTOR

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DURATION OF FELLOWSHIP: 1 YEAR

TRAINING OBJECTIVES

The SNEC Glaucoma Fellowship programme encompasses clinical and surgical training including research in the all aspects of glaucoma. It is expected that on completion of the fellowship programme, competency in surgical and laser management of glaucoma patients should be attained. The fellowship programme also includes participation in the various clinical trials and research projects that are undertaken by the Glaucoma Service as well as involvement in glaucoma clinical audit. Active participation in national and international multi-centre basic and clinical research projects will also be encouraged. The Glaucoma fellow will spend time with the supervisors in their subspecialty clinics at SNEC (Glaucoma department & General Ophthalmology Department) and CGH (Eye department) as well as see and manage patients under supervision.

MINIMUM ENTRY REQUIREMENTS

- MMed (Ophthalmology), FRCS or its equivalent and would have completed 2 years of advance training rotations in general ophthalmology.
- Must be experienced in most aspects of clinical ophthalmology.
- Should have participated actively in teaching, research with an acceptable record of publication.
- Leadership qualities to work independently and to multi-task
- A good command of English
- Eligibility Criteria for International Fellowship applicants can be found in the **SNEC International Clinical Fellowship Prospectus**

FELLOWSHIP PROGRAMME OUTLINE & SPECIFIC OBJECTIVES

1. Clinical Aspects

- Primary Open Angle Glaucoma, Acute Angle Closure Glaucoma, Chronic Angle Closure Glaucoma and Secondary Glaucoma – Management and treatment
- Visual Field Analysis
- Optic Discs Analysis, Stereo photography and Nerve Fibre Analysis
- Ultrasound Biomicroscopic examination of the Anterior Segment+ ASOCT

2. Research Projects and Opportunities

- Epidemiology of Glaucoma

- Surgical Trials
- Laser and medical Glaucoma Management studies
- Glaucoma Audit Studies
- AI in glaucoma
- Neuroprotective Drug Trials

These projects aim for international standards of that will enable presentation in international ophthalmic and glaucoma journals and meetings such as ARVO (Association for Research and Vision in Ophthalmology, AAO (American Academy of Ophthalmology) and AOGS (Asian-Oceanic Glaucoma Society), as well as local and regional ophthalmic meetings.

3. Glaucoma Audit

The Glaucoma Fellow shall be inducted into the Glaucoma Audit subcommittee as a member and participate in the collection and analysis of the audit data.

4. Optic Nerve Analysis and UBM

The Glaucoma Fellow will be trained in the use of OCT and the Ultrasound Biomicroscope. These instruments are a good adjunct in suspicious cases and are also good research tools to look into various aspects of glaucoma.

5. Visual Field Analysis

Visual field charting and analysis is a principal aspect of glaucoma diagnosis and management and the glaucoma fellow must be familiar with the workings and strategies involved in the Humphrey Visual Field Analyser. Opportunities in research into newer machines and different field strategies may also be present for the fellow to participate in.

6. Medical glaucoma/research fellowship outcomes

- Junior candidates OR Senior Candidates who want to do a PhD or Masters.
- Focus is on developing clinical skills in the management of glaucoma. Start meaningful research with target of 2 impactful publications eventually. The main areas of research would be in glaucoma investigation, slow-release medications for glaucoma and in avant-garde lasers for glaucoma.
- Based in: SNEC/SNEC@Changi General Hospital/SNEC@Seng Kang Hospital
- Projected roster and estimated numbers of procedures
 - 7 clinic sessions, 3 research (variable and negotiable depending on goals of candidate) and to consider including a uveitis or neuro-ophthalmology clinic If interested.
 - 50 – 100 lasers

The Glaucoma Fellow will be responsible for observing, examining and treating glaucoma patients in conjunction with the glaucoma Consultant and the glaucoma Registrar. Substantial personalised training and exposure in the management of different types and aspects of glaucoma will be available.

The Glaucoma Fellow will work under the supervision of the consultant and will perform the relevant procedures. They will be expected to achieve competency in laser iridotomies, iridoplasties, and Yag capsulotomies.

7. Ward Duties

The Glaucoma Fellow will be directly responsible for following up all glaucoma patients admitted to the Eye Ward and be actively involved in the day-to-day management of the patients whilst in the ward, in conjunction with the Glaucoma Consultant and Glaucoma Registrar.

8. Clinical and Basic Research Projects

A minimum of 2 research sessions per week will be dedicated to the Fellow for him/her to pursue meaningful research projects during his/her 1-year fellowship program. This may take the form of epidemiological studies, clinical trials or basic research projects. Several major glaucoma research projects are currently ongoing and the Fellow will be expected to play a part in them as well. The consultants will be able to guide the Fellow as to further project that he/she can pursue.

SUPERVISION METHOD WHEN FELLOW IS ROTATED

Fellow will be assigned to 1 specified Supervisor from the Glaucoma Dept, SNEC and when the trainee is rotated to General Ophthalmology Department in SNEC & CGH. The rest of co-supervisors will feedback to the program director. The program director will be the one in charge of assessing the fellow.

ASSESSMENT METHOD

(eg. logbook, monthly meeting with supervisor)

1. The fellow will keep procedure logs and verification of conferences, journal clubs, lectures, and other meetings throughout the duration of the fellowship.
2. Regular meeting with supervisor (3 monthly)
3. Feedback to supervisor from other faculty members
4. SMC online assessment.

CRITERIA FOR EARLY TERMINATION OF TRAINEES FROM THE PROGRAMME

The institution/hospital reserves the right to terminate the training programme in the event of unsatisfactory performance.

No certificate will be issued if training is prematurely terminated.

FEEDBACK MECHANISM FOR TRAINEES

1. Direct feedback to supervisor
2. Indirect feedback to Fellowship Programme Director