

**GENERAL NEUROLOGY FELLOWSHIP ATTACHMENT  
PROGRAMME IN SGH**

Components	Information
<b>1. Division/ Department</b>	Medicine / Department of Neurology
<b>2. Title of Programme</b>	Fellowship Training Programme in General Neurology
<b>3. Relevant Registrations</b>	<ul style="list-style-type: none"> <li>• Temporary Registration with Singapore Medical Council (SMC)</li> <li>• Training employment pass application with Ministry of Manpower, Singapore (MOM) (upon successful Temporary Registration with Singapore Medical Council)</li> </ul>
<b>4. Overview</b>	<p>During the fellowship programme, the Fellow will undertake a broad range of practical clinical experiences including care of inpatients and outpatients with acute and chronic neurological diseases, attending a programme of formal education activities, and have exposure to and involvement with current research activities. The programme will encompass rotations through Neurology inpatient and outpatient services, including various subspecialty clinics in Neurology. All training and rotations are designed to cultivate basic competency and proficiency in Neurology for Internists in General Medicine, or develop proficiency in an area of subspecialty for trained Neurologists.</p>
4.1 Background information	
4.2 Goal/ aim(s)	
4.3 Duration	6 to 12 months
<b>5. Target Audience</b>	Current position as registrar, Senior resident or equivalent
5.1 Pre-requisite /eligibility requirement(s)	<p>General requirements for Temporary Registration for training (required by SMC):</p> <ul style="list-style-type: none"> <li>• A basic medical degree from an accredited medical university or medical school</li> <li>• Passed the relevant national licensing examination in the country of conferment of basic degree, where applicable</li> <li>• Evidence of at least 12 months houseman-ship / internship with a certificate of satisfactory completion of houseman-ship or equivalent</li> <li>• Been registered as a medical practitioner in the country where he is currently practising</li> <li>• Been certified to be of good standing by the Medical Council or the relevant national authority</li> </ul>

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	<p><b>Note:</b> The doctor should be in active clinical practice (and been registered as a medical practitioner in the countries of practice) for the 3 years preceding the application for medical registration in Singapore.</p> <p>In addition to the above criteria, <b>Clinical Fellows</b> must:</p> <ol style="list-style-type: none"> <li>Have a minimum of 3 years working experience as a medical officer (or equivalent)</li> <li>Fulfil English Language requirements of SMC if the medium of instruction for the basic medical qualification is <u>not</u> in English</li> <li>Preferably have obtained a postgraduate diploma or medical degree in his country or overseas</li> <li>Be sponsored by (i) the government, or (ii) regional health authority or (iii) an appropriate institution in the home country. For (d)(iii), the doctor must be on current full-time employment (40 hours or more per week) with the sponsoring institution.</li> </ol> <p>As a Clinical Fellow, the doctor will be allowed to be involved in patient care and make entries in patients' case note, communicate care plans to patients and fellow healthcare professionals, and perform procedures under <u>direct</u> supervision or Level 1 supervision under SMC's Supervisory Framework.</p> <p><b>Department's requirement, if any (only for Clinical Fellow in this subspecialty):</b></p> <ul style="list-style-type: none"> <li>Postgraduate medical qualification e.g. MMed or equivalent</li> <li>Minimum of 2 years of postgraduate training experience in relevant specialty(after obtaining the postgraduate medical qualification)</li> <li>Current position as registrar, Senior resident or equivalent</li> </ul>
<b>6. Learning Objectives</b>	<p>This fellowship would allow the Fellow to acquire:</p> <ul style="list-style-type: none"> <li>Clinical skills and acumen in the diagnosis and management of a wide variety of neurological disorders: stroke, epilepsy, dementia, neuromuscular problem etc.</li> <li>Basic interpretation of EEG and NCS</li> <li>Awareness of the role and benefits of a multidisciplinary team in management of neurodegenerative diseases, including physiotherapy, occupational therapy, rehabilitation, medical social work, nurse education.</li> <li>Some experience in clinical research in the field of Neurology if desired by the Fellow.</li> </ul>
<b>7. Course/Training Syllabus</b>	<ol style="list-style-type: none"> <li>Observe and participate in management of acute neurological emergencies like stroke thrombolysis, status epilepticus, neuromuscular emergencies and CNS infections.</li> <li>Participate in ongoing daily teaching for residents and senior residents in Neurology training</li> <li>To attend the outpatient clinics to get exposed to various subspecialty clinics like movement disorder clinic, neurocognitive clinic, stroke clinic, sleep disorder clinic and general neurology clinics.</li> <li>To participate in ongoing research activities and give creative input</li> <li>To observe the procedures in Neurophysiology lab and learn how to interpret EEG and NCS</li> </ol> <p>The syllabus remains the same for both 6 months and 12 months fellowship. 12 months duration will allow more accumulated experience of rarer neurological disorders.</p>
<b>8. Training Method</b>	<b>Method of Supervision:</b>

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	<p>Direct observation and feedback. Clinical Fellow will be supervised by an assigned supervisor at all times.</p> <p>Fellows will have opportunities to observe the following procedures:</p> <ol style="list-style-type: none"> <li>1. Nerve conduction tests and EMG</li> <li>2. EEG</li> <li>3. Neurovascular tests</li> <li>4. Botulinum toxin injection clinic</li> </ol> <p><b>Hands-On Experience:</b> Fellows will assist in the following procedures under supervision:</p> <ol style="list-style-type: none"> <li>1) Clerk patients and assess them to get differential diagnosis</li> <li>2) Counselling of the patients about the diagnosis and counselling of caregivers about services available in SGH</li> <li>3) Manage General Neurology patients admitted and also in outpatient</li> <li>4) Participate in all the ongoing teaching activities meant for Residents and Senior Residents</li> <li>5) Present topics in Journal Club</li> <li>6) Collect Data and participate in ongoing research activities</li> </ol> <p><b>Job rotation within SGH and to other institutions not required.</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th colspan="3">TRAINING ACTIVITIES &amp; METHODOLOGY</th> </tr> <tr style="background-color: #cccccc;"> <th style="width: 40%;">Name of activity</th> <th style="width: 30%;">Frequency / No. of sessions / Length of session</th> <th style="width: 30%;">Teaching methodology</th> </tr> </thead> <tbody> <tr> <td>Morning ward rounds</td> <td>Daily, Monday-Friday- 2 hours each</td> <td>Ward based bedside tutorials, Socratic, demonstration, performance, skills practice</td> </tr> <tr> <td>Afternoon exit rounds</td> <td>Daily, Monday-Friday-0.5 to 1 hour</td> <td>Socratic, demonstration performance</td> </tr> <tr> <td>Specialist outpatient clinics</td> <td>3 sessions per week-3 hours each</td> <td>Socratic, demonstration, performance, skills practice</td> </tr> <tr> <td>Department journal club</td> <td>2 sessions per month-Friday-1 hour each (stroke/epilepsy)</td> <td>Didactic lecture, literature critique</td> </tr> <tr> <td>Departmental grand rounds</td> <td>3 sessions per month-Thursday morning-1 hour each</td> <td>Case based discussion</td> </tr> <tr> <td>Neurophysiology teaching</td> <td>Weekly once-Tuesday-1 hour</td> <td>Case based discussion</td> </tr> </tbody> </table>	TRAINING ACTIVITIES & METHODOLOGY			Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology	Morning ward rounds	Daily, Monday-Friday- 2 hours each	Ward based bedside tutorials, Socratic, demonstration, performance, skills practice	Afternoon exit rounds	Daily, Monday-Friday-0.5 to 1 hour	Socratic, demonstration performance	Specialist outpatient clinics	3 sessions per week-3 hours each	Socratic, demonstration, performance, skills practice	Department journal club	2 sessions per month-Friday-1 hour each (stroke/epilepsy)	Didactic lecture, literature critique	Departmental grand rounds	3 sessions per month-Thursday morning-1 hour each	Case based discussion	Neurophysiology teaching	Weekly once-Tuesday-1 hour	Case based discussion
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	Subspecialty teaching/CPED	Weekly once-Monday-1-2 hours	Didactic lectures and case based discussion
	Neuroradiology round	Weekly once-Friday-1 hour	Cased based discussion
	Professional teaching rounds	Weekly once-Monday- 1 hour	Case based discussion
	Neurology –pantry rounds	3 sessions per month-Tuesday-1 hour	Didactic lectures and case based discussion
	Thursday teaching (consultant lecture or MO presentation)	Weekly once-Thursday-1 hour	Didactic lecture, case based discussion
	Tuesday rtPA	every 3rd Tuesday of the month	Case based discussion
	Thursday Research Forum	1st Thursday of the month-1 hour	Didactic lecture
8.1 Night Duties Requirement	Adhoc to gain experience and have exposure to emergency cases		
8.2 Running of Clinics Requirement	Yes, for observation and under supervision		
<b>9. Assessment and Evaluation</b>	<p>Clinical Fellow will need to demonstrate their proficiency level based on the following competencies:</p> <ol style="list-style-type: none"> <li><b>1) Patient Care</b> Able to learn the holistic management of the patients' care in our system</li> <li><b>2) Medical Knowledge</b> Demonstrate adequate, up-to-date medical knowledge in General Neurology</li> <li><b>3) Practice-Based Learning and Improvement</b> To show interval improvement in knowledge and competency in managing neurological disorders</li> <li><b>4) Interpersonal and Communication Skills</b> <ul style="list-style-type: none"> <li>• Demonstrates care and concern for the patient/family</li> <li>• Communicates effectively with patient/family</li> <li>• Communicates and works effectively with other healthcare professionals</li> </ul> </li> <li><b>5) Professionalism</b> <ul style="list-style-type: none"> <li>• Accepts responsibility and follows through on tasks</li> <li>• Demonstrates integrity and ethical behaviour</li> <li>• Practices within his/her abilities</li> </ul> </li> <li><b>6) Systems-Based Practice</b></li> </ol>		

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	<ul style="list-style-type: none"> <li>Effectively works in multi-disciplinary teams to provide care</li> <li>Organisational skills</li> </ul>															
9.1 Assessment approaches	<p><b>Formative assessment:</b></p> <ul style="list-style-type: none"> <li>Regular evaluation between Clinical Fellow and Supervisor / Head of Department</li> <li>Reflective journal- logbook recordings of training activities</li> </ul> <p><b>Summative assessment:</b> Periodical assessment reports as required by Singapore Medical Council</p> <p><b>Feedback:</b></p> <ul style="list-style-type: none"> <li>End-of-training feedback form as required by Singapore Medical Council</li> <li>End-of-training feedback session with SGH-PGMI</li> </ul>															
9.2 Evaluation Process 9.2.1 General overall grading system	<p>The general overall grading system evaluates the Clinical Fellow's performance upon completion of the fellowship programme. All Clinical Fellow will be given a general overall grading status at the end of the fellowship programme based on the grading criteria requirements incorporating the six competencies based knowledge, skills and performance that Clinical Fellow must demonstrate throughout the programme.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #4F81BD; color: white;">Grading Status</th> <th style="background-color: #4F81BD; color: white;">Description</th> <th style="background-color: #4F81BD; color: white;">Grading Criteria Requirements</th> </tr> </thead> <tbody> <tr> <td style="background-color: #D9E1F2;"><b>CMP</b></td> <td style="background-color: #D9E1F2;">Completes the programme</td> <td style="background-color: #D9E1F2;"> <ul style="list-style-type: none"> <li>The Fellow completes at least 6 months of training, and achieves all the competencies of the training programme.</li> </ul> </td> </tr> <tr> <td style="background-color: #D9E1F2;"><b>USP</b></td> <td style="background-color: #D9E1F2;">Unsatisfactory performance</td> <td style="background-color: #D9E1F2;"> <ul style="list-style-type: none"> <li>The Fellow completed at least 6 months of the training programme, but is not able to achieve the competencies of the training programme.</li> </ul> </td> </tr> <tr> <td style="background-color: #D9E1F2;"><b>DCP</b></td> <td style="background-color: #D9E1F2;">Did not complete the programme</td> <td style="background-color: #D9E1F2;"> <ul style="list-style-type: none"> <li>The Fellow is not able to complete at least 6 months of training and achieve the expected competencies in the training programme.</li> </ul> </td> </tr> <tr> <td style="background-color: #D9E1F2;"><b>WDN</b></td> <td style="background-color: #D9E1F2;">Withdrawn from the programme</td> <td style="background-color: #D9E1F2;"> <ul style="list-style-type: none"> <li>The Fellow has consistently demonstrated poor performance throughout the training period, demonstrates misdemeanour, misconduct or medical negligence.</li> </ul> </td> </tr> </tbody> </table>	Grading Status	Description	Grading Criteria Requirements	<b>CMP</b>	Completes the programme	<ul style="list-style-type: none"> <li>The Fellow completes at least 6 months of training, and achieves all the competencies of the training programme.</li> </ul>	<b>USP</b>	Unsatisfactory performance	<ul style="list-style-type: none"> <li>The Fellow completed at least 6 months of the training programme, but is not able to achieve the competencies of the training programme.</li> </ul>	<b>DCP</b>	Did not complete the programme	<ul style="list-style-type: none"> <li>The Fellow is not able to complete at least 6 months of training and achieve the expected competencies in the training programme.</li> </ul>	<b>WDN</b>	Withdrawn from the programme	<ul style="list-style-type: none"> <li>The Fellow has consistently demonstrated poor performance throughout the training period, demonstrates misdemeanour, misconduct or medical negligence.</li> </ul>
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<p>9.3 Criteria for Early Termination</p>	<p>The attachment programme will be terminated early on the ground of the Clinical Fellow's poor performance, misdemeanour, misconduct, negligence or breach of any terms stipulated or referred to in the Fellowship Letter of Offer and Institution Terms and Conditions.</p> <p>The Clinical Fellow may also request to terminate the attachment programme for reasons such as serious illness or other personal obligations. The institution will review all requests for early termination with the Clinical Fellow and the Supervisor / Head of Department.</p>
<p><b>10. Course Administration</b></p>	<p>Type of Certification: Certificate of Training</p> <p>Training Fee: S\$3,000 (before prevailing GST) per month</p> <p>Programme Funding source: Self-funded</p>
<p><b>11. Number of Clinical Fellow to be accepted at any one time</b></p>	<p>2 Fellows</p>