



HAND AND RECONSTRUCTIVE MICROSURGERY FELLOWSHIP ATTACHMENT PROGRAMME IN SGH

Components	Information				
1. Division/ Department	Musculoskeletal Sciences/ Hand & Reconstructive Microsurgery				
2. Title of Programme	Clinical Fellowship Training in Hand & Reconstructive Microsurgery				
3. Relevant Registrations	Temporary Registration with Singapore Medical Council (SMC) Training employment pass application with Ministry of Manpower, Singapore (MOM) (upon successful Temporary Registration with Singapore Medical Council)				
4. Overview 4.1 Background information	Hand surgery is an independent specialty that involves (scope of clinical exposure): • Trauma and Microsurgical reconstruction • Adult and Neonatal Brachial Plexus reconstruction • Wrist arthroscopy • Digital and Major replantation • Hand and Wrist fractures • Peripheral nerve injuries • Congenital differences • Burns reconstruction It requires dedicated training of microsurgery, operative fixation, arthroscopy				
4.2 Goal/ aim(s)	techniques, and other minimally-invasive surgical techniques. A fellowship programme that will provide exposure and competence of these aspects. 1. Achieve competency in management of hand related conditions and injuries				
4.2 Goali allii(s)	Exposure and opportunity in management of complex hand conditions				
4.3 Duration	6 to 12 months. There are 4 core/ specialised modules: 1) Wrist 2) Brachial Plexus and Peripheral Nerve 3) Advanced Microsurgery 4) Congenital Hand 6-month program will include 2 core/ specialised modules.				
	12-month program will include all 4 core/ specialised modules, with research opportunities.				
4.4 Hyperlinks/URL Sites	http://www.sgh.com.sg/Clinical-Departments-Centers/Hand-Surgery/Pages/overview.aspx				
5. Target Audience	Post-exit certification in Orthopaedic or Plastic Surgery				
5.1 Pre-requisite /eligibility requirement(s)	General requirements for Temporary Registration for training (required by SMC):				

Version 1, SGH-PGMI Page **1** of **6**





HAND AND RECONSTRUCTIVE MICROSURGERY FELLOWSHIP ATTACHMENT PROGRAMME IN SGH

Components	Information		
	 A basic medical degree from an accredited medical university or medical school Passed the relevant national licensing examination in the country of conferment of conferment of basic degree, where applicable Evidence of at least 12 months houseman-ship / internship with a certificate of satisfactory completion of houseman-ship or equivalent Been registered as a medical practitioner in the country where he is currently practising Been certified to be of good standing by the Medical Council or the relevant national authority Note: 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. 		
	In addition to the above criteria, Clinical Fellows must: a) Have a minimum of 3 years working experience as a medical officer (or equivalent) b) Fulfil English Language requirements of SMC if the medium of instruction for the basic medical qualification is <u>not</u> in English c) Preferably have obtained a postgraduate diploma or medical degree in his country or overseas d) 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. 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.		
	Department's requirement, if any (only for Clinical Fellow in this subspecialty): Exit certification in Orthopaedic Surgery or Plastic Surgery		
6. Learning Objectives	This fellowship would allow the Fellow to acquire:		
	 Competency in management of hand related conditions and injuries Exposure and opportunity in management of complex hand conditions 		
7. Course/Training Syllabus	In the 6-month or 12-month program, the trainee is exposed to expertise in both acute and elective hand surgery including and not limited to: • Trauma and Microsurgical reconstruction • Adult and Neonatal Brachial Plexus reconstruction • Wrist arthroscopy • Digital and Major replantation • Hand and Wrist fractures • Peripheral nerve injuries • Congenital differences • Burns reconstruction		

Version 1, SGH-PGMI Page **2** of **6**





HAND AND RECONSTRUCTIVE MICROSURGERY FELLOWSHIP ATTACHMENT PROGRAMME IN SGH

Components	Information			
	It is recommended to complete 2 core/ specialised modules (for 6-month attachment) and 4 core/ specialised modules (for 12-month attachment) – Wrist, Brachial Plexus and Peripheral Nerve, Advanced Microsurgery, and Congenital Hand.			
	The fellow shall integrate into the Hand Surgery service in Singapore General Hospital (49 clinic sessions, 23 theatre sessions per week). He or she will work closely with specialised Hand therapists, as well as Plastic and Orthopaedic surgeons from the MSK-ACP.			
8. Training Method	Method of Supervision: Direct observation and feedback. Fellow will be supervised by an assigned supervisor at all times. Assigned supervisor will be tagged to Fellow at all times, including job rotations to other institutions.			
	Hands-On Experience: Surgical exposure will commence at the level of a supervised junior surgeon. Fellows will perform or assist in the following procedures under supervision:			
	 hand infections surgical fixation of hand and wrist fractures microsurgery for nerve repairs replantation surgeries 			
	He/ she will be trained in post-operative management and rehabilitation of various hand conditions.			
	Observed Only: Clinical Fellows will have opportunities to observe or assist in complex reconstructive surgeries such as free flaps and brachial plexus surgery, reconstruction of congenital hand differences. In terms of minimally invasive surgery, candidates will be exposed to endoscopic carpal tunnel and cubital tunnel release, diagnostic and therapeutic wrist arthroscopy, arthroscopic ganglionectomy, scaphoid fracture fixations.			
	No job rotation to other departments within SGH.			
	Job rotation to other Institutions is required for this programme: ■ To KKH, Department of Orthopaedic Surgery for Congenital hand surgery module. ⇒ Frequency: up to 3 times per week ⇒ Duration: up to 3 months			
	 To SKH, Department of Orthopaedic Surgery for wrist/ upper limb module. Frequency: up to 3 times per week Duration: up to 3 months 			
	A Clinical Fellow could potentially be involved sequentially in the above-mentioned 2 modules - Congenital hand surgery module and wrist/ upper limb module.			

Version 1, SGH-PGMI Page 3 of 6





HAND AND RECONSTRUCTIVE MICROSURGERY FELLOWSHIP ATTACHMENT PROGRAMME IN SGH

Components	Information				
	TRAINING ACTIVITIES & METHODOLOGY				
	Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology		
	Grand ward round including Professorial rounds	Monday Weekly/ 1 hour	Case discussion and Ward teaching		
	Perioperative rounds, Audit rounds	Tuesday Weekly/ 1 hour	Case discussions by senior residents, moderated by consultants		
	Research meetings	Wednesday Weekly / 1hour	Presentations and discussions on research topics		
	National training program in Hand Surgery	Wednesday weekly (on allocated months)/ 1 hour	Advanced topic lecture and discussions		
	CME teaching/ Journal club	Friday weekly/ 1 hour	Presentations by junior and senior residents, moderated by consultants.		
	SSHS quarterly teaching	Saturday 3-monthly/ 3 hours	Topic and Case discussions		
9. Assessment and Evaluation	Fellows will need to demonstrate their proficiency level based on the following competencies: 1) Patient Care Demonstrate diagnosis and management of inpatients and outpatients. Integrate evidence-based practise. 2) Medical Knowledge Good understanding of basic sciences, clinical evaluation, classical literature. Demonstrate some understanding of recent development and research. 3) Practice-Based Learning and Improvement Able to investigate and evaluate the care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and consistent lifelong learning. 4) Interpersonal and Communication Skills Integrate well with Team-based practice with members of the division and department, Nursing staff, Operating theatre staff, and Administrative staff. Respect for patient and family, caregivers. 5) Professionalism Maintain professional conduct with senior staff, peers, residents, nursing staff, auxiliary staff, patients and caregivers. Practice ethically, as guided by Singapore Medical Council guidelines.				

Version 1, SGH-PGMI Page **4** of **6**





HAND AND RECONSTRUCTIVE MICROSURGERY FELLOWSHIP ATTACHMENT PROGRAMME IN SGH

Components	Information				
	6) Systems-Based Practice Demonstrate compliance to Good Clinical Practices and Patient Safety Guidelines, Personal Protective Equipment recommendations by Infectious Disease. Respect IT security. Clarity and completeness of clinical documentation.				
9.1 Assessment approaches 9.2 Evaluation Process 9.2.1 General overall grading system	 Formative assessment: Regular evaluation (at least 3-monthly) between Fellow and Supervisor / Head Department Reflective journal- logbook recordings of training activities Summative assessment: Periodical assessment reports as required by Singapore Medical Council Feedback: End-of-training feedback form as required by Singapore Medical Council End-of-training feedback session with SGH-PGMI The general overall grading system evaluates the Clinical Fellow's performance up completion of the fellowship programme. All Clinical Fellow will be given a gene overall grading status at the end of the fellowship programme based on the gradic criteria requirements incorporating the six competencies based knowledge, skills a performance that Clinical Fellow must demonstrate throughout the programme. 				
	Grading Status	Description	Grading Criteria Requirements		
	СМР	Completes the programme	 Clinical competence in evaluation and management of common hand conditions Participation in education At least 80% attendance of CME activities held in SGH 		
	USP	Unsatisfactory performance	Poor clinical skills and knowledge in evaluation and management of common hand conditions		
	DCP	Did not complete the programme	 Did not complete duration of indicated fellowship. Absence of more than 19 working days per 6-month block.(Excluding training activities) 		

Version 1, SGH-PGMI Page **5** of **6**





HAND AND RECONSTRUCTIVE MICROSURGERY FELLOWSHIP ATTACHMENT PROGRAMME IN SGH

Components	Information			
	WDN Withdrawn from the programme • Early termination or withdrawal before completion of program.	I		
9.3 Criteria for Early Termination	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 Clinical Fellowship Letter of Offer and Institution Terms and Conditions. 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.			
10. Course Administration	Type of Certification: Certificate of Training Training Fee: S\$3,210 per month Programme Funding source: Self-funded			
11. Number of Clinical Fellow to be accepted at any one time	4			

Version 1, SGH-PGMI Page 6 of 6