

**ORTHOPAEDIC SURGERY, ADULT RECONSTRUCTION
FELLOWSHIP ATTACHMENT PROGRAMME IN SGH**

Components	Information
1. Division/ Department	Musculoskeletal Sciences/ Orthopaedic Surgery, Adult Reconstruction Service
2. Title of Programme	Clinical Fellowship Training in Orthopaedic Surgery, Adult Reconstruction
3. Relevant Registrations	<ul style="list-style-type: none"> • 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	<p>The fellows are expected to attend morning meetings and discussions, participate in ward rounds and assist in clinic and the operating room. Over a period of 6 months to a year, each fellow can participate in a wide range of Adult Reconstruction surgeries involving the primary knee, hip and secondary complex revision knee and hip replacement. The fellow can also play an active and satisfying role in the management and rehabilitation of patient, bringing them back to competitive fitness.</p> <p>They must also be prepared to conduct clinical research and publish a minimum of one paper during their attachment with the department.</p>
4.2 Goal/ aim(s)	The attachment programme allows Fellows to gain more exposure in: Primary joint replacement and secondary complicated revision joint surgeries with the latest technologies like computer guided and robotic.
4.3 Duration	6 months (maximum)
4.4 Hyperlinks/URL Sites	https://www.sgh.com.sg/patient-care/specialties-services/orthopaedic-surgery/pages/adult-reconstruction-service.aspx
5. Target Audience	All applicants are welcomed
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"> • A basic medical degree from an accredited medical university or medical school • Passed the relevant national licensing examination in the country 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 <p>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.</p> <p>In addition to the above criteria, Clinical Fellows must:</p> <ol style="list-style-type: none"> 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

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	<p>c) Preferably have obtained a postgraduate diploma or medical degree in his country or overseas</p> <p>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.</p> <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>Department's requirement, if any (only for Clinical Fellow in this subspecialty): N.A.</p>																
6. Learning Objectives	<p>This fellowship would allow the Fellow to acquire the following:</p> <ul style="list-style-type: none"> • Develop proficiency in obtaining a systematic history and physical examination on patients presenting with orthopaedic pathology due to degenerative joint disease. • Evaluate with the aid of appropriate and current diagnostic tools, degenerative joint pathology. • To be able to execute appropriate and effective methods of managing the patients' condition from a surgical and non-surgical perspective. • Obtain experience and proficiency in surgical interventions and rehabilitation programs associated with common problems in joint replacement. • Learn the latest state of art in joint replacement surgeries. • Participant in process of scientific injury, publication and presentation 																
7. Course/Training Syllabus	<p>a) Attend morning meetings and discussions.</p> <p>b) Participate in ward rounds.</p> <p>c) Assist in clinic and the operating room.</p> <p>d) Conduct clinical research and publish a minimum of one paper.</p> <p>e) Attend Saturday SOA conference and SOA congress.</p> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="background-color: #D3D3D3;">Cases/ Procedures/Skills</th> <th style="background-color: #D3D3D3;">Minimum number of cases to see/complete:</th> </tr> </thead> <tbody> <tr> <td>1. Total Knee Replacement</td> <td>10</td> </tr> <tr> <td>2. Minimally Invasive Unicompartmental Knee Replacement</td> <td>10</td> </tr> <tr> <td>3. Bicompartmental Knee Replacement</td> <td>5</td> </tr> <tr> <td>4. Patellofemoral Knee Replacement</td> <td>5</td> </tr> <tr> <td>5. Revision Total Knee Replacement</td> <td>5</td> </tr> <tr> <td>6. Total Hip Replacement</td> <td>10</td> </tr> <tr> <td>7. Total Hip Resurfacing Surgery</td> <td>5</td> </tr> </tbody> </table>	Cases/ Procedures/Skills	Minimum number of cases to see/complete:	1. Total Knee Replacement	10	2. Minimally Invasive Unicompartmental Knee Replacement	10	3. Bicompartmental Knee Replacement	5	4. Patellofemoral Knee Replacement	5	5. Revision Total Knee Replacement	5	6. Total Hip Replacement	10	7. Total Hip Resurfacing Surgery	5
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	8. Revision Total Hip Replacement	3															
	9. High Tibial Osteotomy	3															
	10. Cartilage Resurfacing	1															
	11. Knee Arthroscopy	5															
8. Training Method	<p>Method of Supervision: Direct observation and feedback. Fellow will be supervised by an assigned supervisor at all times.</p> <p>Observed Only: Fellows will have opportunities to observe the following procedures:</p> <ul style="list-style-type: none"> • Arthroscopy Surgeries <p>Hands-On Experience: Fellows will assist in the following procedures under supervision:</p> <ul style="list-style-type: none"> • Total knee replacement • Minimally invasive Unicompartmental Knee Replacement • Bicompartmental Knee Replacement • Patellofemoral Knee replacement • Revision Total Knee Replacement • Total Hip Replacement • Total Hip Resurfacing Surgery • Revision Total Hip Replacement • High Tibia Osteotomy • Cartilage Resurfacing • Knee Arthroscopy <p>No job rotation to other departments within SGH is required.</p> <p>No job rotation to other institutions is required.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th colspan="3">TRAINING ACTIVITIES & 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>Grand Ward Round (Adult Reconstruction Service)</td> <td>Daily: (30 minutes – 1 hour)</td> <td>Group discussion</td> </tr> <tr> <td>Pre-op Round (Department)</td> <td>Weekly: Every Monday (1 hour)</td> <td>Group discussion</td> </tr> <tr> <td>Saturday SOA Conference</td> <td>Weekly: Saturday (1 hour)</td> <td>Group discussion</td> </tr> </tbody> </table>		TRAINING ACTIVITIES & METHODOLOGY			Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology	Grand Ward Round (Adult Reconstruction Service)	Daily: (30 minutes – 1 hour)	Group discussion	Pre-op Round (Department)	Weekly: Every Monday (1 hour)	Group discussion	Saturday SOA Conference	Weekly: Saturday (1 hour)	Group discussion
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	Monthly Adult Reconstructive service Research Meeting	Monthly: First Wednesday (1.5 hours)	Group discussion
	Suture Course (In House)	Yearly (1 day)	Group discussion
	Specialist Outpatient Clinic	Weekly (4 sessions)	1 to 1 teaching
	Orthopaedic Operating Theatre	Weekly (3 – 4 sessions)	<ul style="list-style-type: none"> Improve fellow on special skills in closely supervised manner. Direct interaction and instructions. Skill practice and learn the latest surgical approach and technique (state of art)
	Workshop (Saw Bone)	Yearly (2 – 3 times)	Group discussion
	Workshop (Cadaveric)	Yearly (1 day)	Group discussion
9. Assessment and Evaluation	<p>Fellows will need to demonstrate their proficiency level based on the following competencies:</p> <p>1) Patient Care Empathise with patient, show care for patient during consult and in ward.</p> <p>2) Medical Knowledge Demonstrates medical knowledge expected of a post graduate fellow.</p> <p>3) Practice-Based Learning and Improvement Shows improvement in medical knowledge and practical skills.</p> <p>4) Interpersonal and Communication Skills Shows teamwork, works well in team.</p> <p>5) Professionalism Shows professionalism in work.</p> <p>6) Systems-Based Practice</p>		

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9.1 Assessment approaches	<p>Fellows are required to continually demonstrate the following six competencies throughout the programme:</p> <ol style="list-style-type: none"> a. Patient Care b. Medical Knowledge c. Practice-Based Learning and Improvement d. Interpersonal and Communication skills e. Professionalism f. Systems-Based Practice <p>Formative assessment:</p> <ul style="list-style-type: none"> • Regular evaluation between Fellow and Supervisor / Head of Department • Reflective journal- logbook recordings of training activities <p>Summative assessment: Periodical assessment reports as required by Singapore Medical Council</p> <p>Feedback:</p> <ul style="list-style-type: none"> • End-of-training feedback form as required by Singapore Medical Council • End-of-training feedback session with SGH-PGMI 															
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;">CMP</td> <td style="background-color: #D9E1F2;">Completes the programme</td> <td style="background-color: #D9E1F2;"> <ul style="list-style-type: none"> • Demonstrates proficiency level in all 6 competencies </td> </tr> <tr> <td style="background-color: #D9E1F2;">USP</td> <td style="background-color: #D9E1F2;">Unsatisfactory performance</td> <td style="background-color: #D9E1F2;"> <ul style="list-style-type: none"> • Fails to demonstrate proficiency </td> </tr> <tr> <td style="background-color: #D9E1F2;">DCP</td> <td style="background-color: #D9E1F2;">Did not complete the programme</td> <td style="background-color: #D9E1F2;"> <ul style="list-style-type: none"> • Did not complete the programme </td> </tr> <tr> <td style="background-color: #D9E1F2;">WDN</td> <td style="background-color: #D9E1F2;">Withdrawn from the programme</td> <td style="background-color: #D9E1F2;"> <ul style="list-style-type: none"> • Withdrawn from the programme </td> </tr> </tbody> </table>	Grading Status	Description	Grading Criteria Requirements	CMP	Completes the programme	<ul style="list-style-type: none"> • Demonstrates proficiency level in all 6 competencies 	USP	Unsatisfactory performance	<ul style="list-style-type: none"> • Fails to demonstrate proficiency 	DCP	Did not complete the programme	<ul style="list-style-type: none"> • Did not complete the programme 	WDN	Withdrawn from the programme	<ul style="list-style-type: none"> • Withdrawn from the programme
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9.3 Criteria for Early Termination	<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 Clinical 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.</p> <p>The institution will review all requests for early termination with the Clinical Fellow and the Supervisor / Head of Department.</p>
10. Course Administration	<p>Type of Certification: Certificate of Training</p> <p>Training Fee: S\$3,210 per month</p> <p>Programme Funding source: Self-funded</p>
11. Number of Clinical Fellow to be accepted at any one time	4