

**ORTHOPAEDIC TRAUMA SURGERY
FELLOWSHIP ATTACHMENT PROGRAMME IN SGH**

Components	Information
1. Division/ Department	Musculoskeletal Sciences/ Orthopaedic Surgery, Trauma Service
2. Title of Programme	Clinical Fellowship Training in Orthopaedic Trauma Surgery
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 department welcomes applicants for the position of Fellow in Trauma, Orthopaedic Surgery. At any one time, we can accommodate up to two Trauma Fellows within the department. The Fellows are expected to attend morning meetings and discussions, participate in ward rounds, and assist in clinic and the operating room.</p> <p>Over a period of six months, the Fellow can expect to participate in a full range of trauma surgeries. Depending on the specific surgeon attached, the Fellow also has a chance to participate in a wide range of elective Orthopaedic surgeries, including direct anterior hip replacements, robotic and navigated arthroplasties, periacetabular osteotomy, sports surgery and elbow reconstructive surgeries. The Fellow will also have the opportunity to take part in the post-operative management of the patients.</p> <p>They must also be prepared to conduct clinic research and publish a minimum of one paper during their attachment with the department.</p>
4.2 Goal/ aim(s)	<p>This programme aims to provide Fellows exposure to a full range of Orthopaedic Trauma seen in a tertiary hospital. This includes all upper and lower limb fractures, as well as more complex clinical problems pelvic and acetabular fractures.</p> <p>The Fellow will also have a chance to be trained in a wide range of elective surgeries, depending on the expertise on the surgeon the Fellow is attached to.</p>
4.3 Duration	<p>Up to 12 months.</p> <p>For a 12-month training, the Fellow can expect to have more exposure/ participation:</p> <ul style="list-style-type: none"> - in a full range of trauma surgeries; - in a wide range of elective Orthopaedic surgeries, including direct anterior hip replacements, robotic and navigated arthroplasties, periacetabular osteotomy, sports surgery and elbow reconstructive surgeries; - in the post-operative management of patients. <p>They must also be prepared to conduct clinic research and publish a minimum of one paper during their attachment with the department.</p>
4.4 Hyperlinks/URL Sites	<p>https://www.sgh.com.sg/patient-care/specialties-services/orthopaedic-surgery/pages/trauma-service.aspx</p>
5. Target Audience	Post-exit Orthopaedic Surgeons with FRCSEd(Orth) or equivalent degrees

**ORTHOPAEDIC TRAUMA SURGERY
FELLOWSHIP ATTACHMENT PROGRAMME IN SGH**

Components	Information
<p>5.1 Pre-requisite /eligibility requirement(s)</p>	<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 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. <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 Fellows in this subspecialty): Post-exit Orthopaedic Surgeons with FRCSEd(Orth) or equivalent degrees</p>
<p>6. Learning Objectives</p>	<p>This fellowship would allow the Clinical Fellow to:</p> <ul style="list-style-type: none"> • Develop proficiency in obtaining systematic history and performing physical examination on patients presenting with orthopaedic pathology due to trauma and degenerative diseases. • Investigate the conditions with the aid of appropriate and current diagnostic tools. • Execute appropriate and effective methods, both surgical and conservative, in managing the patients' condition. • Obtain experience and proficiency in surgical interventions and rehabilitation programs associated with common trauma and degenerative conditions. • Learn the latest state of art surgical techniques • Participate in the processes of scientific study, publication and presentation.
<p>7. Course/Training Syllabus</p>	<p>At the end of the 6/12-month Fellowship programme, Clinical Fellow will understand and be able to apply the following advanced techniques:</p>

**ORTHOPAEDIC TRAUMA SURGERY
FELLOWSHIP ATTACHMENT PROGRAMME IN SGH**

Components	Information												
	<ol style="list-style-type: none"> 1) Diaphyseal Fractures <ol style="list-style-type: none"> a) Minimal Invasive Osteosynthesis b) Bridge plating c) Non-union and delay union management d) Osteotomy for malunion 2) Intra-articular Fractures <ol style="list-style-type: none"> a) Minimal invasive osteosynthesis guided by arthroscopy and radiography b) Damage control orthopaedics 3) Osteotomy for malunion 4) Pelvic and Acetabulum trauma including computer navigation <ol style="list-style-type: none"> a) Emergency resuscitation of haemodynamic unstable pelvic fractures b) Damage control orthopaedics 5) Approaches and reduction techniques to anterior, posterior and both direction for pelvic and acetabulum 6) Various elective surgeries like hip and knee arthroplasties, arthroscopies and osteotomies 												
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: Clinical Fellows will have opportunities to observe the following procedures:</p> <ul style="list-style-type: none"> • Robotic Orthopaedic Surgeries <p>Hands-On Experience: Clinical Fellows will assist in the following procedures under direct supervision:</p> <ul style="list-style-type: none"> • Fracture fixation of all bones except spine and skull, using a variety of implants • Computer navigated surgery <p>No job rotation is required to other departments within SGH.</p> <p>No job rotation is required to other institutions.</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>Pre-op Round</td> <td>Every Monday at 7 am</td> <td>Group Discussion</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	TRAINING ACTIVITIES & METHODOLOGY			Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology	Pre-op Round	Every Monday at 7 am	Group Discussion			
TRAINING ACTIVITIES & METHODOLOGY													
Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology											
Pre-op Round	Every Monday at 7 am	Group Discussion											

**ORTHOPAEDIC TRAUMA SURGERY
FELLOWSHIP ATTACHMENT PROGRAMME IN SGH**

Components	Information								
	Saturday SOA conference	Every Saturday from 8.30 am (to be held in different hospitals in Singapore)	Presentations and discussions						
	Specialist outpatient clinic	2-3 times a week	Assisting and running clinics						
	Operating theatre (Either Elective or Trauma theatre)	Monday to Fridays	Didactic, assisting, performing surgeries, and training of residents						
	Workshops (e.g. Sawbone workshops, AO courses)	1-2 times a year	Discussion and hands-on training						
9. Assessment and Evaluation	<p>Fellows will need to demonstrate their proficiency level based on the following competencies:</p> <table border="1" data-bbox="500 1241 1474 1801"> <tr> <td data-bbox="500 1241 1474 1335"> 1) Patient Care Empathise with patient, show care for patient during consult and in ward </td> </tr> <tr> <td data-bbox="500 1335 1474 1430"> 2) Medical Knowledge Demonstrates medical knowledge expected of a postgraduate fellow </td> </tr> <tr> <td data-bbox="500 1430 1474 1524"> 3) Practice-Based Learning and Improvement Shows improvement in medical knowledge and practical skills </td> </tr> <tr> <td data-bbox="500 1524 1474 1619"> 4) Interpersonal and Communication Skills Show spirit of teamwork, works well in a team </td> </tr> <tr> <td data-bbox="500 1619 1474 1713"> 5) Professionalism Displays professionalism at work </td> </tr> <tr> <td data-bbox="500 1713 1474 1801"> 6) Systems-Based Practice Able to carry out independent practice </td> </tr> </table>			1) Patient Care Empathise with patient, show care for patient during consult and in ward	2) Medical Knowledge Demonstrates medical knowledge expected of a postgraduate fellow	3) Practice-Based Learning and Improvement Shows improvement in medical knowledge and practical skills	4) Interpersonal and Communication Skills Show spirit of teamwork, works well in a team	5) Professionalism Displays professionalism at work	6) Systems-Based Practice Able to carry out independent practice
1) Patient Care Empathise with patient, show care for patient during consult and in ward									
2) Medical Knowledge Demonstrates medical knowledge expected of a postgraduate fellow									
3) Practice-Based Learning and Improvement Shows improvement in medical knowledge and practical skills									
4) Interpersonal and Communication Skills Show spirit of teamwork, works well in a team									
5) Professionalism Displays professionalism at work									
6) Systems-Based Practice Able to carry out independent practice									

ORTHOPAEDIC TRAUMA SURGERY
FELLOWSHIP ATTACHMENT PROGRAMME IN SGH

Components	Information															
9.1 Assessment approaches	<p>Clinical Fellows will be encouraged to meet with the supervisor at the start of the programme and lay down the objectives of their term. A mid-term assessment will be done by the supervisor and any difficult areas in training objectives will be addressed. Clinical Fellows are to maintain a log book of the cases that they had been counselled on, or that were audited, by the assigned Supervisor, and have it ready for inspection by the Singapore Medical Council (SMC) when required.</p> <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="text-align: center;">CMP</td> <td>Completes the programme</td> <td>Clinical Fellow completes 6 months of training and achieves all the competencies of the training programme.</td> </tr> <tr> <td style="text-align: center;">USP</td> <td>Unsatisfactory performance</td> <td>Clinical Fellow completes 6 months of training, but is not able to achieve the competencies of the training programme.</td> </tr> <tr> <td style="text-align: center;">DCP</td> <td>Did not complete the programme</td> <td>Clinical Fellow is not able to complete at least 6 months of training.</td> </tr> <tr> <td style="text-align: center;">WDN</td> <td>Withdrawn from the programme</td> <td>Clinical Fellow has consistently demonstrated poor performance throughout the training period, demonstrates misdemeanour, misconduct or medical negligence.</td> </tr> </tbody> </table>	Grading Status	Description	Grading Criteria Requirements	CMP	Completes the programme	Clinical Fellow completes 6 months of training and achieves all the competencies of the training programme.	USP	Unsatisfactory performance	Clinical Fellow completes 6 months of training, but is not able to achieve the competencies of the training programme.	DCP	Did not complete the programme	Clinical Fellow is not able to complete at least 6 months of training.	WDN	Withdrawn from the programme	Clinical Fellow has consistently demonstrated poor performance throughout the training period, demonstrates misdemeanour, misconduct or medical negligence.
Grading Status	Description	Grading Criteria Requirements														
CMP	Completes the programme	Clinical Fellow completes 6 months of training and achieves all the competencies of the training programme.														
USP	Unsatisfactory performance	Clinical Fellow completes 6 months of training, but is not able to achieve the competencies of the training programme.														
DCP	Did not complete the programme	Clinical Fellow is not able to complete at least 6 months of training.														
WDN	Withdrawn from the programme	Clinical Fellow has consistently demonstrated poor performance throughout the training period, demonstrates misdemeanour, misconduct or medical negligence.														

**ORTHOPAEDIC TRAUMA SURGERY
FELLOWSHIP ATTACHMENT PROGRAMME IN SGH**

Components	Information
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	2