

**HAEMATOPOIETIC STEM CELL TRANSPLANTATION
FELLOWSHIP ATTACHMENT PROGRAMME IN SGH**

Components	Information
1. Division/ Department	Medicine/ Department of Haematology
2. Title of Programme	Clinical Fellowship Training in Haematopoietic Stem Cell Transplantation
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 of Haematology is the largest haematology service in the public sector in Singapore and manages the majority of patients with haematological conditions in Singapore. It covers a comprehensive range of services including haematopoietic stem cell transplantation, coagulation, malignant haematology, transfusion medicine and laboratory haematology.</p> <p>The Haematopoietic Stem Cell Transplantation Programme (HSCTP) of the SGH Haematology dept was established in 2015 and carries out an average of 80 transplants a year, including autologous, matched sibling, matched and mismatched unrelated, cord blood and haploidentical transplants for various haematological malignancies and marrow failure syndromes. To date it has carried out near 1500 transplants and has outcome comparable to that reported by international renowned centers. It is a multi-disciplinary team harnessing the expert contribution of a team of dedicated haematologists and infectious disease physicians, nurses, pharmacists, therapists, social workers. There is also an apheresis facility and processing facility to support the clinical service. The programme has obtained accreditation by AABB and JACIE and continuously strives to improve itself. Over the years, it has received fellows from China, India and other countries who spend between a few months to 1 year to learn our practice and system.</p>
4.2 Goal/ aim(s)	To introduce Clinical Fellows to the diagnosis and management of the whole range of benign and malignant haematological disorders, with special focus on all the aspects of the specific area of HSCT.
4.3 Duration	6 – 12 months
4.4 Hyperlinks/URL Sites	https://www.sgh.com.sg/Clinical-Departments-Centers/Department-of-Haematology/Pages/Department-Haematology.aspx
5. Target Audience	Trained haematologists with an interest in subspecializing in HSCT.
5.1 Pre-requisite /eligibility requirement(s)	General requirements for Temporary Registration for training (required by SMC): <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

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	<ul style="list-style-type: none"> • 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 for the 3 years preceding the application for medical registration.</p> <p>In addition to the above criteria, Clinical Fellow must:</p> <ol style="list-style-type: none"> a) Have a minimum of 3 years of relevant 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 not in English c) Preferably have obtained a postgraduate diploma or degree in his country or overseas d) 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 <p>Department's requirement, if any (only for Clinical Fellow in this subspecialty):</p> <ul style="list-style-type: none"> • Postgraduate medical qualification • Minimal 2 years of postgraduate training experience in Haematology after postgraduate qualification • Current position as registrar or higher
<p>6. Learning Objectives</p>	<p>This fellowship would allow the Clinical Fellows to acquire knowledge in all aspects of HSCT.</p> <p>Clinical Fellows exiting from this programme will be able to manage HSCT patients with a reasonable level of confidence.</p>
<p>7. Course/Training Syllabus</p>	<p>HSCT:</p> <ol style="list-style-type: none"> i) indications for autologous and allogeneic HPC transplantation ii) tissue typing and donor identification iii) procurement and processing of HPCs iv) transplant conditioning regimens v) management of patients undergoing autologous, allogeneic and alternative donor transplants vi) recognition and management of short, intermediate and long term complications of transplantation
<p>8. Training Method</p>	<p>Method of Supervision: Direct observation and feedback. Clinical Fellow will be supervised by an assigned supervisor at all times and will take part in daily ward rounds, clinics and ad hoc attendance to patients.</p>

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	<p>Observed Only: Clinical Fellows will have opportunities to observe all the processes related to the subspecialty, including clinical management, laboratory diagnosis, and any other processes peculiar to the area.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #A9A9A9;"> <th colspan="3">TRAINING ACTIVITIES & METHODOLOGY</th> </tr> <tr style="background-color: #D3D3D3;"> <th>Name of activity</th> <th>Frequency / No. of sessions / Length of session</th> <th>Teaching methodology</th> </tr> </thead> <tbody> <tr> <td>Ward round</td> <td>Daily 2-4hr</td> <td>Observation, discussion</td> </tr> <tr> <td>Clinic</td> <td>2-3 sessions a week / 3-4hr</td> <td>Observation, discussion</td> </tr> <tr> <td>Collection facility</td> <td>Ad hoc</td> <td>Observation, discussion</td> </tr> <tr> <td>Diagnostic and processing lab</td> <td>Ad hoc</td> <td>Observation, discussion</td> </tr> <tr> <td>Rounds: transplant meeting, morphology round, tumour board, M&M round, journal club, research meeting, thrombosis meeting, palliative meeting</td> <td>Weekly to fortnightly for each one</td> <td>Discussion</td> </tr> </tbody> </table>	TRAINING ACTIVITIES & METHODOLOGY			Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology	Ward round	Daily 2-4hr	Observation, discussion	Clinic	2-3 sessions a week / 3-4hr	Observation, discussion	Collection facility	Ad hoc	Observation, discussion	Diagnostic and processing lab	Ad hoc	Observation, discussion	Rounds: transplant meeting, morphology round, tumour board, M&M round, journal club, research meeting, thrombosis meeting, palliative meeting	Weekly to fortnightly for each one	Discussion
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<p>9. Assessment and Evaluation</p>	<p>Clinical Fellow will need to demonstrate their proficiency level based on the following competencies:</p> <ol style="list-style-type: none"> 1) Patient Care Manage patients at various stages of the disease 2) Medical Knowledge To be competent in all aspects of knowledge required in managing patients 3) Practice-Based Learning and Improvement Planning, presentation, documentation, discussion of problems 4) Interpersonal and Communication Skills Involvement in case presentation and discussion 5) Professionalism Appropriate behaviour to colleagues at all levels and patients 6) Systems-Based Practice Understands compliance to SOP and quality management
<p>9.1 Assessment approaches</p>	<p>Mid-term review: In the form of interview, logbook documentation: 50%</p> <p>End of fellowship review: Includes possibility of doing case and database review and presentation</p> <p>Formative assessment:</p> <ul style="list-style-type: none"> • Regular evaluation between Clinical 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

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<p>9.2 Evaluation Process 9.2.1 General overall grading system</p>	<p>The general overall grading system evaluates the Clinical Fellow's performance upon completion of the fellowship programme. All Clinical Fellows 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> <ul style="list-style-type: none"> • Demonstrates proficiency level in all 6 competencies </td> </tr> <tr> <td style="text-align: center;">USP</td> <td>Unsatisfactory performance</td> <td> <ul style="list-style-type: none"> • Fails to demonstrate proficiency </td> </tr> <tr> <td style="text-align: center;">DCP</td> <td>Did not complete the programme</td> <td> <ul style="list-style-type: none"> • Did not complete the programme </td> </tr> <tr> <td style="text-align: center;">WDN</td> <td>Withdrawn from the programme</td> <td> <ul style="list-style-type: none"> • Withdrawn from 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 programme
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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>10. Course Administration</p>	<p>Type of Certification: Certificate of Training</p> <p>Training Fee: S\$3,210 per month</p> <p>Programme Funding source: Self-funded</p>															
<p>11. Number of Clinical Fellow to be accepted at any one time</p>	-															