

**BREAST IMAGING FELLOWSHIP ATTACHMENT
PROGRAMME IN SGH**

Components	Information
1. Division/ Department	Radiological Sciences/ Department of Diagnostic Radiology
2. Title of Programme	Fellowship Training In Breast Imaging
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	To train radiologists who have at least 2 years of post-graduate training in relevant specialty to be able to interpret mammogram, breast ultrasound and breast MRI and also to perform image guided breast biopsies.
4.1 Background information	
4.2 Goal/ aim(s)	<ol style="list-style-type: none"> 1. To be exposed to screening and diagnostic mammogram, ultrasound and MRI breast cases with the aim for the Clinical Fellow to be able to practice safely and independently. 2. To allow the Clinical Fellow to develop appropriate protocols and techniques in their practice. 3. To observe and perform image guided biopsies under supervision.
4.3 Duration	6 months
5. Target Audience	Postgraduate medical qualification with at least 2 years of postgraduate training experience in relevant specialty.
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 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

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	<p>and fellow healthcare professionals, and perform procedures under <u>direct</u> supervision or Level 1 supervision</p> <p>Department's requirement, if any (only for Clinical Fellow in this subspecialty):</p> <ol style="list-style-type: none"> 1. Postgraduate medical qualification e.g. MMED, FRCR or equivalent. 2. Minimum 2 years of postgraduate training experience in relevant specialty. 3. Current position as Registrar, Resident or equivalent. (AST or senior resident) 4. Proven competency in English Language. 												
6. Learning Objectives	<p>This fellowship would allow the Clinical Fellow to acquire:</p> <ul style="list-style-type: none"> • Confidence in reporting screening and diagnostic mammogram, tomosynthesis, ultrasound and MRI breast studies. • Advise medical colleagues on appropriateness of use of imaging studies and procedures. • Observe and/or perform imaging guided breast procedures under supervision depending on the competency of the Clinical Fellow. 												
7. Course/Training Syllabus	<ul style="list-style-type: none"> • Interpretation of mammography, tomosynthesis, breast ultrasound, breast MRI. • Observe/perform imaging guided breast procedures under supervision. • Multi-disciplinary discussions on difficulty breast cases. 												
8. Training Method	<p>Method of Supervision: Direct observation and feedback. Clinical 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"> • MRI guided breast vacuum assisted biopsy/hookwire localization. <p>Hands-On Experience: Clinical Fellows will perform or assist in the following procedures under supervision if deemed competent and with the requisite qualifications:</p> <ul style="list-style-type: none"> • Reporting of full field digital mammography, tomosynthesis, breast ultrasound and elastography, 3D ultrasound, MRI breast • Ultrasound guided core biopsy/vacuum assisted biopsy/hookwire localisation • Stereotactic guided vacuum assisted biopsy/hookwire localisation <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 colspan="3"><u>Continuous Medical Education (CME)</u></td> </tr> <tr> <td>1. Department CME meetings</td> <td>Weekly</td> <td>Presentations</td> </tr> </tbody> </table>	TRAINING ACTIVITIES & METHODOLOGY			Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology	<u>Continuous Medical Education (CME)</u>			1. Department CME meetings	Weekly	Presentations
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	2. Other breast related meetings (including BSS case reviews)	Weekly	Case Presentation
	3. Radiology rounds with various departments	Daily	Case presentation
	4. Breast Journal Review	Monthly	Presentation
	<u>Research Activity</u>		
	1. At least one breast imaging related research project leading to publication	Throughout the attachment duration	Experimenting, didactic lecture, presentation
	2. Audits and assistance in other research projects	Throughout the attachment duration	Experimenting
	3. Present research findings at local/regional scientific meetings	Throughout the attachment duration	Experimenting, didactic lecture, Presentation
9. Assessment and Evaluation	<p>Clinical Fellow will need to demonstrate their proficiency level based on the following competencies:</p> <p>1) Patient Care Clinical Fellow's compassion towards patient and ability to communicate and interact with patient.</p> <p>2) Medical Knowledge Knowledge in Breast imaging studies and procedures and breast diseases.</p> <p>3) Practice-Based Learning and Improvement To show interval improvement in knowledge and competency in interpreting breast imaging studies and performing biopsy procedures.</p> <p>4) Interpersonal and Communication Skills Interpersonal relationship with the radiologists, radiographers, surgeons, clinicians and other ancillary staff.</p> <p>5) Professionalism To show professionalism towards work and colleagues.</p> <p>6) Systems-Based Practice To know the practice and protocol to manage patients accordingly.</p>		
9.1 Assessment approaches	Formative assessment:		

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	<ul style="list-style-type: none"> Regular evaluation between Clinical Fellow and Supervisor / Head of Department Reflective journal- logbook recordings of training activities Passing percentage : 75% completion <p>Summative assessment:</p> <ul style="list-style-type: none"> Periodical assessment reports as required by Singapore Medical Council Subspecialty Assessment with passing percentage – 75% completion (Informal assessment) <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 with indication of 75% of training objectives met indicated in the logbook 															
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> <ul style="list-style-type: none"> Clinical Fellow completes 6 months of training and activities and achieves all the competencies of the training programme </td> </tr> <tr> <td style="text-align: center;">USP</td> <td>Unsatisfactory performance</td> <td> <ul style="list-style-type: none"> Clinical Fellow completed 6 months of the training programme but is unable to achieve competencies of the training programme </td> </tr> <tr> <td style="text-align: center;">DCP</td> <td>Did not complete the programme</td> <td> <ul style="list-style-type: none"> Clinical Fellow is not able to complete 6 months of training </td> </tr> <tr> <td style="text-align: center;">WDN</td> <td>Withdrawn from the programme</td> <td> <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Clinical Fellow completes 6 months of training and activities and achieves all the competencies of the training programme 	USP	Unsatisfactory performance	<ul style="list-style-type: none"> Clinical Fellow completed 6 months of the training programme but is unable to achieve competencies of the training programme 	DCP	Did not complete the programme	<ul style="list-style-type: none"> Clinical Fellow is not able to complete 6 months of training 	WDN	Withdrawn from the programme	<ul style="list-style-type: none"> Clinical Fellow has consistently demonstrated poor performance throughout the training period, demonstrates misdemeanour, misconduct or medical negligence
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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 Fellowship Letter of Offer and Institution Terms and Conditions.</p>															

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	<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>	<p>-</p>