

**ADVANCED BREAST SURGERY FELLOWSHIP  
ATTACHMENT PROGRAMME IN SGH**

Components	Information
1. <b>Division/ Department</b>	Surgery & Surgical Oncology/ Breast Surgery
2. <b>Title of Programme</b>	Clinical Fellowship Training in Advanced Breast Surgery
3. <b>Relevant Registrations</b>	<ul style="list-style-type: none"> <li>• Temporary Registration with Singapore Medical Council (SMC)</li> <li>• Training employment pass application with Ministry of Manpower, Singapore (MOM) (upon successful Temporary Registration with Singapore Medical Council)</li> </ul>
<b>4. Overview</b> 4.1 Background information	<p>Clinical Fellows from this programme will have hands-on operative experience with each of the faculty in their area of specialty of expertise and will have opportunities to operate as first assistant or first surgeon.</p> <p><u>Relevant Academic activities</u></p> <ol style="list-style-type: none"> <li>1. Clinical quality improvement projects</li> <li>2. Research - The Fellow is expected to be involved in at least one research project during the fellowship.</li> </ol> <p><u>Courses and conferences</u></p> <p>Recommended</p> <ul style="list-style-type: none"> <li>• BSS Seminar</li> <li>• At least 1 major international breast or reconstructive conference 1 year</li> </ul>
4.2 Goal/ aim(s)	To develop surgeons post-residency to be skilled in both oncological breast surgery and reconstructive breast surgery techniques.
4.3 Duration	12 months
4.4 Hyperlinks/URL Sites	<a href="https://www.singhealth.com.sg/patient-care/specialties-services/breast-centre/appointment#care-team">https://www.singhealth.com.sg/patient-care/specialties-services/breast-centre/appointment#care-team</a>
5. Target Audience	Associate Consultants (General Surgery)
5.1 <b>Pre-requisite /eligibility requirement(s)</b>	<p>General requirements for Temporary Registration for training (required by SMC):</p> <ul style="list-style-type: none"> <li>• A basic medical degree from an accredited medical university or medical school</li> <li>• Passed the relevant national licensing examination in the country of conferment of basic degree, where applicable</li> <li>• Evidence of at least 12 months houseman-ship / internship with a certificate of satisfactory completion of houseman-ship or equivalent</li> <li>• Been registered as a medical practitioner in the country where he is currently practising</li> <li>• Been certified to be of good standing by the Medical Council or the relevant national authority</li> </ul> <p><b>Note:</b> 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>

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	<p>In addition to the above criteria, <b>Clinical Fellows</b> must:</p> <ol style="list-style-type: none"> <li>Have a minimum of 3 years working experience as a medical officer (or equivalent)</li> <li>Fulfil English Language requirements of SMC if the medium of instruction for the basic medical qualification is <u>not</u> in English</li> <li>Preferably have obtained a postgraduate diploma or medical degree in his country or overseas</li> <li>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.</li> </ol> <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><b>Department's requirement, if any (only for Clinical Fellow in this subspecialty):</b></p> <ul style="list-style-type: none"> <li>Completed GS residency or Advanced surgical training in General Surgery.</li> </ul> <p><u>Note:</u> Applicants can directly apply to this training programme without having to undergo any basic fellowship programme in Singapore, as long as all admission/eligibility criteria are met.</p>
<p><b>6. Learning Objectives</b></p>	<p>This fellowship would allow the Fellow to acquire:</p> <ul style="list-style-type: none"> <li>To develop surgeons post-residency to be skilled in both oncological breast surgery and reconstructive breast surgery techniques.</li> </ul>
<p><b>7. Course/Training Syllabus</b></p>	<p><b>Breast Pathology</b></p> <ol style="list-style-type: none"> <li>Surgical Anatomy of the Breast and Axilla</li> <li>History and Basic Principles of Breast Surgery</li> <li>Epidemiology, Etiology, and Pathology</li> <li>Diagnostic Breast Radiology</li> <li>Benign Breast Conditions</li> <li>Benign Breast Tumours</li> <li>Malignant Breast Tumours</li> </ol> <p><b>Breast and reconstructive surgery</b></p> <ol style="list-style-type: none"> <li>Breast Surgery for benign and malignant breast diseases</li> <li>Oncoplastic Surgery</li> <li>Breast Reconstructive Surgery</li> </ol> <p><b>Others</b></p> <ol style="list-style-type: none"> <li>Principles of Radiation, Chemotherapy (neoadjuvant and adjuvant) and Targeted Therapy</li> <li>Biostatistics</li> </ol>
<p><b>8. Training Method</b></p>	<p><b>Method of Supervision:</b></p> <p>Direct observation and feedback. Clinical Fellow will be supervised by an assigned supervisor at all times.</p>

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	<p><b>Observed Only:</b> Clinical Fellow will have opportunities to observe the following procedures: Nil.</p> <p><b>Hands-On Experience:</b> Clinical Fellow will assist in the following procedures under supervision:</p> <ol style="list-style-type: none"> <li>1. Clinical management of Breast diseases           <ol style="list-style-type: none"> <li>a. Breast Lumps</li> <li>b. Breast abscesses</li> <li>c. Mastalgia</li> <li>d. Post-partum conditions</li> <li>e. Nipple discharge</li> <li>f. Screen detected abnormalities</li> <li>g. Breast Cancer</li> </ol> </li> <li>2. Clinical Management of:           <ol style="list-style-type: none"> <li>a. Post-mastectomy defects</li> <li>b. Post-mastectomy scars</li> <li>c. Post breast reconstruction asymmetry</li> <li>d. Complications of reconstruction</li> </ol> </li> <li>3. Procedures           <ol style="list-style-type: none"> <li>a. Biopsy techniques               <ul style="list-style-type: none"> <li>o FNA</li> <li>o Trucut core biopsies</li> <li>o VAB core biopsies</li> </ul> <p>Be competent in free-hand biopsies and US guided biopsies.</p> </li> <li>b. Operations               <p><b>Breast</b></p> <ul style="list-style-type: none"> <li>o Excision biopsy</li> <li>o Wire guided procedures</li> <li>o Wide excisions</li> <li>o Simple mastectomy</li> <li>o Skin-sparing mastectomy</li> <li>o Nipple-sparing mastectomy</li> <li>o Radical mastectomy</li> <li>o Intraoperative radiotherapy (IORT)</li> </ul> <p><b>Axilla</b></p> <ul style="list-style-type: none"> <li>o Sentinel Node Biopsy (Blue dye + Radiocolloid)</li> <li>o Axillary Node Clearance</li> </ul> <p><b>Oncoplastic Breast Surgery (level I and II)</b></p> <ul style="list-style-type: none"> <li>o LICAP/AICAP</li> <li>o Mammoplasty</li> <li>o Mastopexy</li> </ul> </li> </ol> </li> </ol>

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	<p>With effect from 01 October 2019, the Division of Surgery &amp; Surgical Oncology, SGH and NCCS was formed. The Division marks the coming together of the Division of Surgery, Singapore General Hospital (SGH) and Division of Surgical Oncology, National Cancer Centre Singapore (NCCS),</p> <p>As such, the training sites of this training programme are as follows, where Clinical Fellows will spend time training between these 2 departments:</p> <p>Department of Breast Surgery, SGH Department of Breast Surgery, NCCS</p> <p><b>Other than the Department of Breast Surgery, SGH and Department of Breast Surgery, NCCS, hands-on training job rotations to other departments within SGH and NCCS are required:</b></p> <p><u>Name of training department(s)</u></p> <ol style="list-style-type: none"> <li>1. SGH, Plastic, Reconstructive &amp; Aesthetic Surgery (PRAS)</li> <li>2. NCCS, Division of Oncologic Imaging</li> <li>3. NCCS, Division of Radiation Oncology</li> </ol> <p><u>Frequency/ duration of rotation</u></p> <ul style="list-style-type: none"> <li>• SGH, Plastic, Reconstructive &amp; Aesthetic Surgery (PRAS) – <b>2 weeks</b></li> <li>• NCCS, Division of Oncologic Imaging</li> <li>• NCCS, Division of Radiation Oncology } <b>6 weeks</b></li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #cccccc;"> <th colspan="3">TRAINING ACTIVITIES &amp; 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>Ward rounds</td> <td>Daily</td> <td>Bedside teaching</td> </tr> <tr> <td>Specialist Clinics</td> <td>4 sessions/Week</td> <td>Direct patient management and case discussion</td> </tr> <tr> <td>BreastScreen Singapore (BSS) clinics</td> <td>1 session per week</td> <td>Direct patient management and case discussion</td> </tr> <tr> <td>Operative sessions</td> <td>Twice weekly</td> <td> <ul style="list-style-type: none"> <li>• Assist in operations</li> <li>• Supervised and perform operations</li> </ul> </td> </tr> <tr> <td>Breast Tumour Board</td> <td>Weekly</td> <td>Case Discussion</td> </tr> </tbody> </table>	TRAINING ACTIVITIES & METHODOLOGY			Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology	Ward rounds	Daily	Bedside teaching	Specialist Clinics	4 sessions/Week	Direct patient management and case discussion	BreastScreen Singapore (BSS) clinics	1 session per week	Direct patient management and case discussion	Operative sessions	Twice weekly	<ul style="list-style-type: none"> <li>• Assist in operations</li> <li>• Supervised and perform operations</li> </ul>	Breast Tumour Board	Weekly	Case Discussion
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	Radio-pathological meeting: BSS and SGH	Twice weekly/ monthly	Case discussion
	Multi-disciplinary Breast Meeting	Monthly	Case / topic discussion
	Monthly Breast Educational Teaching/Research Updates Meeting	Monthly	Case / topic discussion
<p><b>9. Assessment and Evaluation</b></p>	<p>Fellows will need to demonstrate their proficiency level based on the following competencies:</p> <p><b>1) Patient Care</b> Provision of considered, thorough and timely multidisciplinary care for breast cancer patients. Demonstrate compassion and kindness in diagnosis disclosure and care provision.</p> <p><b>2) Medical Knowledge</b> Up to date</p> <p><b>3) Practice-Based Learning and Improvement</b> Consistent self-improvement and active participation in learning and imparting knowledge</p> <p><b>4) Interpersonal and Communication Skills</b> Collegial, approachable, concise and professional</p> <p><b>5) Professionalism</b> Highest standards of what is expected of a surgical specialist who works within an academic, comprehensive cancer centre</p> <p><b>6) Systems-Based Practice</b>  Appreciation of the importance of how a healthcare ecosystem can aid in delivery of optimal cancer care. Learning how to develop and optimize such teams back in home institutions</p>		
<p>9.1 Assessment approaches</p>	<p><b>Formative assessment:</b></p> <ul style="list-style-type: none"> <li>• Six monthly.</li> <li>• Fellow meets with the supervisor at the start of the programme to review the learning objectives of the term. Mid-term assessment will be done by the supervisor based on direct observation, peer and faculty feedback and the logbook review.</li> </ul>		

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	<ul style="list-style-type: none"> <li>Issues not resolved at this level are to be raised to the program director / HOD</li> </ul> <p><b>Summative assessment:</b></p> <ul style="list-style-type: none"> <li>Periodical assessment reports as required by SMC</li> <li>Global assessment at end of programme by HOD, faculty and supervisor</li> </ul> <p><b>Feedback:</b></p> <ul style="list-style-type: none"> <li>End-of-training feedback form as required by Singapore Medical Council</li> <li>End-of-training feedback session with SGH-PGMI</li> </ul>															
9.2 Evaluation Process 9.2.1 General overall grading system	<p>The general overall grading system evaluates the Fellow's performance upon completion of the fellowship programme. All 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 Fellows must demonstrate throughout the programme.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #4F81BD; color: white;"> <th>Grading Status</th> <th>Description</th> <th>Grading Criteria Requirements</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>CMP</b></td> <td>Completes the programme</td> <td> <ul style="list-style-type: none"> <li>B – A+</li> </ul> </td> </tr> <tr> <td style="text-align: center;"><b>USP</b></td> <td>Unsatisfactory performance</td> <td> <ul style="list-style-type: none"> <li>C</li> </ul> </td> </tr> <tr> <td style="text-align: center;"><b>DCP</b></td> <td>Did not complete the programme</td> <td> <ul style="list-style-type: none"> <li>D</li> </ul> </td> </tr> <tr> <td style="text-align: center;"><b>WDN</b></td> <td>Withdrawn from the programme</td> <td> <ul style="list-style-type: none"> <li>No grade.</li> </ul> </td> </tr> </tbody> </table>	Grading Status	Description	Grading Criteria Requirements	<b>CMP</b>	Completes the programme	<ul style="list-style-type: none"> <li>B – A+</li> </ul>	<b>USP</b>	Unsatisfactory performance	<ul style="list-style-type: none"> <li>C</li> </ul>	<b>DCP</b>	Did not complete the programme	<ul style="list-style-type: none"> <li>D</li> </ul>	<b>WDN</b>	Withdrawn from the programme	<ul style="list-style-type: none"> <li>No grade.</li> </ul>
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9.2.2 Options for Clinical Fellow who was graded with a (USP) for unsatisfactory performance	NIL															
9.3 Criteria for Early Termination	<p>The attachment programme will be terminated early on the ground of the 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 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 Fellow and the Supervisor / Head of Department.</p>															

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<b>10. Course Administration</b>	Type of Certification: Certificate of Training  Training Fee (recommended): S\$3,210 per month  Programme Funding source: Self-funded
<b>11. Number of Clinical Fellow to be accepted at any one time</b>	2