

**DEPARTMENT OF GENERAL SURGERY  
ADVANCED ONCOPLASTIC BREAST SURGERY FELLOWSHIP PROGRAMME**

<b>Components</b>	<b>Information</b>
<b>1. Division / Department</b>	Department of General Surgery Division of Breast and Endocrine Surgery
<b>2. Title of Programme</b>	Advanced Oncoplastic Breast Surgery Programme
<b>3. Overview</b>	
<b>3.1 Information</b>	<p>Ng Teng Fong General Hospital (NTFGH) is a tertiary care centre under the National University Health System (NUHS).</p> <p>The Department of General Surgery provides comprehensive surgical services, including breast surgery, thyroid and endocrine surgery, bariatric and metabolic surgery for obesity, colorectal surgery, upper gastro-intestinal surgery, hepatobiliary surgery, surgical oncology and surgical endoscopy for diagnostic and therapeutic interventions, as well as vascular and endovascular surgery.</p> <p>In the Division of Breast and Endocrine Surgery (BES), there are one senior consultant, two consultants and one associate consultant breast surgeon who will oversees the training of the fellows. This department is supported by the Department of Plastic Surgery which comprises of one senior consultant, one consultant and one associate consultant plastic surgeons.</p> <p>NTFGH Breast and Endocrine Surgery Fellowship Programme is an accredited fellowship training centre with the Singapore Medical Council (SMC).</p>
<b>3.2 Objectives</b>	<p><b>Sub-specialist training in Oncoplastic Breast Surgery</b></p> <p>To gain an in-depth understanding and practice of breast triple assessment, diagnosis and management of both benign breast conditions and breast cancer.</p> <p>To develop (or increase) oncoplastic surgical skills required in basic breast surgery and more advanced breast conservation techniques such as volume replacement/displacement, partial breast reconstruction and total breast reconstruction.</p>
<b>3.3 Duration</b>	12 Months Fellowship Programme

<p><b>3.4 Training Information</b></p>	<p>The fellowship will be with the Division of Breast and Endocrine Surgery, under the Department of General Surgery at Ng Teng Fong General Hospital (NTFGH), Singapore. The Clinical Fellow will be supervised by a supervisor from the Division of Breast and Endocrine Surgery, NTFGH.</p> <p>The fellow will attend ward rounds, outpatient clinics and both elective and emergency operating sessions with all of the faculty.</p> <p>Clinical exposure will comprise all aspects of breast surgery which includes, but is not limited to,</p> <ul style="list-style-type: none"> <li>- Level 1 oncoplastic breast surgery i.e. breast conservation surgery</li> <li>- Level 2 oncoplastic breast surgery i.e. partial mastectomy with volume replacement (e.g. local perforator flaps) or displacement (e.g. mammoplasties) techniques</li> <li>- Total mastectomy with breast reconstruction (autologous vs non-autologous)</li> </ul> <p>The fellow will attend regular One Stop Breast Surgery Clinics and Follow Up Breast Clinics with three Consultants and will have the opportunity to see new cases and formulate a management plan for them with <b>the aim to gain independence in running these clinics.</b></p> <p>Fellows will be educated in an evidence-based approach to operative and non-operative treatments.</p> <p>The fellow will have opportunity to join the Tumour Board Meetings and be able to present and formulate plans for patients presented in the meetings.</p> <p><b><u>Operative exposure</u></b></p> <ol style="list-style-type: none"> <li>1) <b>Breast conservation surgery:</b> Less than 20% of breast volume excision requiring only glandular flaps advancement or rotation to fill the cavity</li> <li>2) <b>Axillary surgery:</b> Sentinel node biopsies using blue dye and indocyanine green (ICG) techniques as well as axillary node clearance</li> </ol>
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	<p><b>3) Partial mastectomy with volume replacement or displacement techniques:</b> More than 20% but less than 50% breast volume excision requiring volume replacement or displacement techniques. Volume replacement techniques include local perforator flaps such as AICAPs, MICAPs and LICAPs. Volume displacement techniques include round block mammoplasties, vertical mammoplasties and wise pattern mammoplasties</p> <p><b>4) Total mastectomy with or without reconstruction:</b> Simple mastectomies without reconstruction and subcutaneous mastectomies (nipple sparing/non-sparing) with reconstruction (implant or free flap/pedicle flap with the plastic surgery team)</p> <p><b><u>Research and teaching</u></b></p> <p>Involvement with ongoing research projects and audits in the breast surgery division.</p> <p>The fellow will be expected to be active in teaching both postgraduate trainees and medical students.</p>
<p><b>3.5 Assessment Method</b></p>	<p>Fellows will be assessed by the breast surgery faculty using the same tools that are employed by the ACGME residency program; mini CEX, case discussions/presentations, directly observed procedural skills (DOPS) and 360-degree appraisals. Fellows will be required to keep a log of all of the surgical procedures in which they have been involved including any complications that may have occurred. Their research output and teaching logs will also be evaluated as part of the assessment.</p>
<p><b>4. Target Audience</b></p>	<p>The fellow should have some prior exposure to breast surgery. Ideally, they should be in the final year of training in their own country or at a post graduate level after completing the surgical training programme in their own country. This fellowship will provide the fellow the opportunity to obtain <b>advanced skills</b> in oncoplastic breast surgery and equip them to be able to operate independently within limits after the 12-month fellowship.</p>