

**ANAESTHESIOLOGY FELLOWSHIP ATTACHMENT  
PROGRAMME IN SGH**

Components	Information
<b>1. Division/ Department</b>	Anaesthesiology & Perioperative Medicine/ Anaesthesiology
<b>2. Title of Programme</b>	Fellowship Training in Anaesthesiology (6-12 months max)
<b>3. 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)</li> </ul> <p>(upon successful Temporary Registration with Singapore Medical Council)</p>
<b>4. Overview</b> 4.1 Background information	<p>The Department of Anaesthesiology in Singapore General Hospital offers a one- year attachment program for fellows to gain exposure through hands-on experience in managing a variety of subspecialty surgeries under supervision. These surgical disciplines include:</p> <ul style="list-style-type: none"> <li>• Head and neck</li> <li>• Surgical oncology</li> <li>• Hepatobiliary and upper gastrointestinal</li> <li>• Urology</li> <li>• Vascular</li> <li>• Kidney and Liver transplant</li> <li>• Reconstructive plastic surgery and burns</li> <li>• Obstetrics and gynaecology</li> <li>• Bariatric surgery</li> <li>• Minimally invasive and Robotic surgery</li> <li>• General Surgery</li> <li>• Orthopaedics</li> <li>• Otorhinolaryngology</li> <li>• Multidisciplinary procedures/surgeries done in operating theatres and in angiography, endoscopy and radiology suites</li> </ul> <p>The Burns Intensive Care Unit is the only specialized facility managing major burns in Southeast Asia. The Hyperbaric and Diving Medicine Centre is also one of the largest tertiary hospital-based hyperbaric facilities in Southeast Asia. Rotation to the Burns Centre or the Hyperbaric and Diving Medicine Centre for observation can be arranged.</p>
4.2 Goal/ aim(s)	The overall aim of the fellowship programme is to produce independent and competent anaesthesiologists with the experience, skills and knowledge, to manage patients requiring major surgery, with the highest standard of safe and comprehensive perioperative care.
4.3 Duration	6 – 12 months
4.4 Hyperlinks/URL Sites	<a href="http://www.sgh.com.sg/patient-care/specialties-services/Anaesthesiology">http://www.sgh.com.sg/patient-care/specialties-services/Anaesthesiology</a>
<b>5. Target Audience</b>	An adaptable anaesthesiologist keen on an experiential learning journey in a high-volume tertiary referral hospital

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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"> <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> <p>In addition to the above criteria, <b>Clinical Fellows</b> must:</p> <ol style="list-style-type: none"> <li>a) Have a minimum of 3 years working experience as a medical officer (or equivalent)</li> <li>b) Fulfil English Language requirements of SMC if the medium of instruction for the basic medical qualification is <u>not</u> in English</li> <li>c) Preferably have obtained a postgraduate diploma or medical degree in his country or overseas</li> <li>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.</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 Fellows in this subspecialty):</b></p> <ul style="list-style-type: none"> <li>• Postgraduate medical qualifications for e.g. Master of Medicine or equivalent.</li> <li>• Passed the National Board of Anaesthesiology examination in the country of conferment of postgraduate qualification</li> <li>• Minimum 2 years of postgraduate training experience in Anaesthesiology after obtaining the postgraduate medical qualification</li> <li>• Current position as Registrar, Senior Resident or equivalent (Advance specialty trainee level).</li> <li>• Proven competency in English Language.</li> <li>• Valid BCLS and ACLS certification during the training attachment period.</li> </ul>
6. Learning Objectives	<p>This fellowship would allow the Fellow to acquire:</p> <ul style="list-style-type: none"> <li>• Skills to manage major intra-abdominal surgeries in high-risk patients</li> <li>• Skills to manage high-risk obstetrics patients</li> <li>• Skills to manage high-risk cardiac patients coming for non-cardiac surgeries</li> <li>• Experience in airway management especially for major head and neck surgeries</li> <li>• Competence in ultrasound-guided placement of catheters for invasive haemodynamic monitoring</li> </ul>

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	<ul style="list-style-type: none"><li>• Knowledge and competence in ultrasound-guided regional and neuraxial techniques for surgery</li><li>• Competence in management of acute post-operative pain</li><li>• Competence in management of immediate anaesthesia-related postoperative complications</li></ul>															
7. Course/Training Syllabus	<p>Fellows are expected to be fully immersed in the clinical responsibilities of an anaesthesiologist working in the department and participate actively in the teaching sessions conducted by the department.</p> <p>The Department of Anaesthesiology operates on a 5-day work week. Fellows are expected to do a minimum of 2 stay-in calls in a month after the initial 3 months if/when they are assessed to be competent in this duty. The duty starts at 0815hrs, and ends at 0830hrs the following day after the handover round.</p> <p>The department holds morning teaching sessions 3-4 times a week and fellows are expected to attend; and to assist in the preparation of/present in one of these sessions at least once during the fellowship.</p>															
8. Training Method	<p><b>Method of Supervision:</b> Direct observation and feedback. Fellow will be supervised by an assigned supervisor at all times.</p> <table><tr><th colspan="3">TRAINING ACTIVITIES &amp; METHODOLOGY</th></tr><tr><th>Name of activity</th><th>Frequency / No. of sessions / Length of session</th><th>Teaching methodology</th></tr><tr><td>First month orientation</td><td>Twice daily 1-hour session for the first 4 weeks</td><td>Demonstration in OT E-learning on SingHealth E-learning portal Quiz and OSCE testing</td></tr><tr><td>Daily work in either preoperative evaluation clinic, operating rooms and/or post-anaesthetic care unit</td><td>Daily, 8 hours or longer if situation/operation lists dictate</td><td>Direct supervision  Case discussion</td></tr><tr><td>CME and peer-review learning sessions</td><td>Weekly 3-5 hours</td><td>Didactic Discussion Resource-based learning</td></tr></table>	TRAINING ACTIVITIES & METHODOLOGY			Name of activity	Frequency / No. of sessions / Length of session	Teaching methodology	First month orientation	Twice daily 1-hour session for the first 4 weeks	Demonstration in OT E-learning on SingHealth E-learning portal Quiz and OSCE testing	Daily work in either preoperative evaluation clinic, operating rooms and/or post-anaesthetic care unit	Daily, 8 hours or longer if situation/operation lists dictate	Direct supervision  Case discussion	CME and peer-review learning sessions	Weekly 3-5 hours	Didactic Discussion Resource-based learning
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8.1 Night Duties Requirement	2 night duty calls per month after the initial 3 months if/when assessed to be competent for this duty
8.2 Running of Clinics Requirement	As per roster to preoperative evaluation clinic, fellows would need to do pre-operative assessment of patients listed for elective surgery and optimize patient's condition if required, as well as to obtain consent for anaesthesia.
<b>9. Assessment and Evaluation</b>	<p>Fellows will need to demonstrate their proficiency level based on the following competencies:</p> <ol style="list-style-type: none"> <li><b>1) Patient Care</b> <ul style="list-style-type: none"> <li>Formulates appropriate anaesthetic care plans for patient and discuss these plans with supervisors</li> <li>Optimizes care of core medical conditions</li> <li>Obtain informed consent</li> <li>Conducts anaesthesia (pre-anaesthetic equipment and machine check, appropriate monitoring, anaesthesia, postoperative disposition)</li> <li>Manages perianaesthetic complications</li> </ul> </li> <li><b>2) Medical Knowledge</b> <p>Knowledge of physiology, anatomy, pharmacology, pathophysiology, general medicine and surgical procedure and application of this knowledge in the conduct of anaesthetic management of patients coming for surgery or procedures</p> </li> <li><b>3) Practice-Based Learning and Improvement</b> <ul style="list-style-type: none"> <li>Demonstrates self-directed learning</li> <li>Seeks guidance from supervisor appropriately</li> </ul> </li> <li><b>4) Interpersonal and Communication Skills</b> <ul style="list-style-type: none"> <li>Communicates effectively with patients and family</li> <li>Communicates effectively with other healthcare professionals</li> <li>Demonstrates collegiality with colleagues in the ward, clinic and operating theatre</li> <li>Maintains clear documentation</li> </ul> </li> <li><b>5) Professionalism</b> <ul style="list-style-type: none"> <li>Accepts responsibilities and follow through on assigned tasks</li> <li>Shows compassion and is respectful of patient's needs</li> <li>Safeguards patients' health information</li> <li>Knows own limits and consults appropriately</li> <li>Works well with other healthcare professionals</li> <li>Copes well with stressful clinical situations</li> </ul> </li> <li><b>6) Systems-Based Practice</b> <p>Demonstrates patient safety principles and infection control practices</p> </li> </ol>

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9.1 Assessment approaches	<p><b>Formative assessment:</b></p> <ul style="list-style-type: none"><li>Regular evaluation between Fellow and Supervisor / Head of Department</li><li>Reflective journal - logbook recordings of training activities</li><li>Regular attendance at CME sessions (minimum 4 peer-reviewed learning sessions every 6 months)</li></ul> <p><b>Summative assessment:</b> Periodical assessment reports as required by Singapore Medical Council</p> <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 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><tr><th>Grading Status</th><th>Description</th><th>Grading Criteria Requirements</th></tr><tr><td><b>CMP</b></td><td>Completes the programme</td><td><ul style="list-style-type: none"><li>Satisfactory performance in all 6 competencies</li></ul></td></tr><tr><td><b>USP</b></td><td>Unsatisfactory performance</td><td><ul style="list-style-type: none"><li>Unsatisfactory performance in more than 1 competency</li></ul></td></tr><tr><td><b>DCP</b></td><td>Did not complete the programme</td><td><ul style="list-style-type: none"><li>Early termination</li></ul></td></tr><tr><td><b>WDN</b></td><td>Withdrawn from the programme</td><td><ul style="list-style-type: none"><li>Did not join the program</li></ul></td></tr></table>	Grading Status	Description	Grading Criteria Requirements	<b>CMP</b>	Completes the programme	<ul style="list-style-type: none"><li>Satisfactory performance in all 6 competencies</li></ul>	<b>USP</b>	Unsatisfactory performance	<ul style="list-style-type: none"><li>Unsatisfactory performance in more than 1 competency</li></ul>	<b>DCP</b>	Did not complete the programme	<ul style="list-style-type: none"><li>Early termination</li></ul>	<b>WDN</b>	Withdrawn from the programme	<ul style="list-style-type: none"><li>Did not join the program</li></ul>
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9.2.2 Options for Clinical Fellow who was graded with a (USP) for unsatisfactory performance	<p>Regular feedback to fellows to avoid such situations.</p> <p>Option for fellowship extension if mutually agreeable after discussion with supervisor, program director, HOD Anaesthesiology and PGMI</p>															
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>															

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	The institution will review all requests for early termination with the Fellow and the Supervisor / Head of Department.
<b>10. Course Administration</b>	<p>Type of Certification: Certificate of Training</p> <p>Training Fee: S\$3,000 (before prevailing GST) per month  <i>Training fee could be waived for suitable fellows from ASEAN countries</i></p> <p>Programme Funding source: Self-funded</p>
<b>11. Number of Clinical Fellow to be accepted at any one time</b>	2