

**HEPATO-PANCREATO-BILIARY/ TRANSPLANT  
SURGERY FELLOWSHIP ATTACHMENT PROGRAMME IN  
SGH**

| Components                                    | Information   |   |
|---|---|---|
| <b>1. Division/ Department</b>                | Surgery & Surgical Oncology/ Hepato-pancreato-biliary and Transplant Surgery  |   |
| <b>2. Title of Programme</b>                  | Clinical Fellowship Training in Hepato-Pancreato-Biliary/ Transplant Surgery  |   |
| <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)<br/>(upon successful Temporary Registration with Singapore Medical Council)</li> </ul>  |   |
| <b>4. Overview</b>                            | <p>The Department of Hepatopancreatobiliary/Transplant surgery was formed at the Singapore General Hospital since April 2013. We have a long history of training regional doctors/fellows previously registered under General Surgery. We intend to pursue this tradition and commitment to train regional doctors for hepatobiliary and transplant work. SGH currently serves a regional tertiary referral centre for hepatobiliary diseases. We are committed to pursuing advanced diagnostic tools and latest surgical technology to our patients. This will benefit the development of expertise and skills around the region. This is done through conducting workshops and seminars for Fellows place in our one-year programme. They are placed initially for six months, and a further period of 6 months upon satisfactory progress (total of one year).</p> |   |
| 4.1 Background information                    |   |   |
| 4.2 Goal/ aim(s)                              |   | <ul style="list-style-type: none"> <li>• Help train HPB surgeons in open and minimally invasive complex HPB procedures.</li> <li>• Foster relations with regional countries.</li> </ul>   |
| 4.3 Duration                                  |   | <p>6 to 12 months</p> <p>The syllabus remains the same for both 6 months and 12 months fellowship. 12 months duration will allow more accumulated experience of rarer cases and more advanced hands-on experiences in major and complex HPB procedures e.g. liver and pancreas resection and liver transplantation.</p> |
| 4.4 Hyperlinks/URL Sites                      |   | <a href="https://www.sgh.com.sg/patient-care/specialties-services/Hepatopancreatobiliary-and-Transplant-Surgery">https://www.sgh.com.sg/patient-care/specialties-services/Hepatopancreatobiliary-and-Transplant-Surgery</a>   |
| <b>5. Target Audience</b>                     | HPB Surgeons with interest in HPB from ASEAN countries  |   |
| 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 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> </ul>   |   |

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|   | <ul style="list-style-type: none"> <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>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> Preferably finished advanced surgical training or equivalent in their country specification.</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>• Multidisciplinary competency in disease management in cancers of liver, pancreas, gallbladder and biliary tree as well as other associated diseases and traumas.</li> <li>• Hands-on training in laparoscopic and open HPB procedures with active involvement in major and complex procedures like liver/pancreas resection and liver transplantation.</li> </ul>  |
| <p><b>7. Course/Training Syllabus</b></p> | <p>Comprehensive clinical exposure to HPB conditions by way of ward rounds, multi-disciplinary discussions, clinic exposure and time spent in the operating theatre.</p>  |
| <p><b>8. Training Method</b></p>          | <p><b>Method of Supervision:</b><br/>Direct observation and feedback. Fellow will be supervised by an assigned supervisor at all times.</p> <p><b>Observed Only:</b><br/>Fellows will have opportunities to observe hepatectomy / pancreatectomy / liver transplant.</p> <p><b>Hands-On Experience:</b><br/>Fellows will perform or assist in the following procedures under supervision:</p>   |

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|---|--|---|--|--|------------------|---|----------------------|-------------|-------|----------------------------------|--------------------|----------------|----------------------------------|--------------------------------|--|--|-------------------------------------|--------------|---|---|--|----------------------------------|
|   | <ul style="list-style-type: none"> <li>All HPB procedures (both open and laparoscopic) including major and complex surgeries (eg. liver/pancreas resection)</li> </ul> <p><b>No Job Rotation To Other Departments Within SGH</b></p> <p><b>No Job Rotation To Other Institutions</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #D3D3D3;"> <th colspan="3">TRAINING ACTIVITIES &amp; METHODOLOGY</th> </tr> <tr style="background-color: #D3D3D3;"> <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>Case presentation and discussion</td> </tr> <tr> <td>Outpatient Clinics</td> <td>2 times a week</td> <td>Case presentation and discussion</td> </tr> <tr> <td>Operating theatres (Electives)</td> <td>3 days a week (MOT)<br/>2 days a week (day surgery)</td> <td>Case observations / scrubbing to assist or perform surgeries</td> </tr> <tr> <td>General surgical teaching programme</td> <td>All weekdays</td> <td>Learning session with subspecialty experts to consolidate knowledge in that subspecialty area</td> </tr> <tr> <td>HPB meetings (weekly pre and postop review, liver transplant)</td> <td>Wednesdays, Fridays<br/>Tuesdays (respectively)</td> <td>Case presentation and discussion</td> </tr> </tbody> </table> | TRAINING ACTIVITIES & METHODOLOGY   |  |  | Name of activity | Frequency / No. of sessions / Length of session | Teaching methodology | Ward Rounds | Daily | Case presentation and discussion | Outpatient Clinics | 2 times a week | Case presentation and discussion | Operating theatres (Electives) | 3 days a week (MOT)<br>2 days a week (day surgery) | Case observations / scrubbing to assist or perform surgeries | General surgical teaching programme | All weekdays | Learning session with subspecialty experts to consolidate knowledge in that subspecialty area | HPB meetings (weekly pre and postop review, liver transplant) | Wednesdays, Fridays<br>Tuesdays (respectively) | Case presentation and discussion |
| TRAINING ACTIVITIES & METHODOLOGY                             |  |   |  |  |                  |   |                      |             |       |                                  |                    |                |                                  |                                |  |  |                                     |              |   |   |  |                                  |
| Name of activity  | Frequency / No. of sessions / Length of session  | Teaching methodology  |  |  |                  |   |                      |             |       |                                  |                    |                |                                  |                                |  |  |                                     |              |   |   |  |                                  |
| Ward Rounds   | Daily  | Case presentation and discussion  |  |  |                  |   |                      |             |       |                                  |                    |                |                                  |                                |  |  |                                     |              |   |   |  |                                  |
| Outpatient Clinics  | 2 times a week   | Case presentation and discussion  |  |  |                  |   |                      |             |       |                                  |                    |                |                                  |                                |  |  |                                     |              |   |   |  |                                  |
| Operating theatres (Electives)                                | 3 days a week (MOT)<br>2 days a week (day surgery)   | Case observations / scrubbing to assist or perform surgeries                                  |  |  |                  |   |                      |             |       |                                  |                    |                |                                  |                                |  |  |                                     |              |   |   |  |                                  |
| General surgical teaching programme                           | All weekdays   | Learning session with subspecialty experts to consolidate knowledge in that subspecialty area |  |  |                  |   |                      |             |       |                                  |                    |                |                                  |                                |  |  |                                     |              |   |   |  |                                  |
| HPB meetings (weekly pre and postop review, liver transplant) | Wednesdays, Fridays<br>Tuesdays (respectively)   | Case presentation and discussion  |  |  |                  |   |                      |             |       |                                  |                    |                |                                  |                                |  |  |                                     |              |   |   |  |                                  |

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| <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><br/>Empathise with patient, show care for patient during consultation and in the ward.</p> <p><b>2) Medical Knowledge</b><br/>Demonstrates medical knowledge expected of a postgraduate fellow.</p> <p><b>3) Practice-Based Learning and Improvement</b><br/>To show improvement in medical knowledge and practical skills.</p> <p><b>4) Interpersonal and Communication Skills</b><br/>Shows teamwork, works well in team.</p> <p><b>5) Professionalism</b><br/>Shows professionalism in work.</p> <p><b>6) Systems-Based Practice</b><br/>Able to carry out independent practice.</p>   |
| <p>9.1 Assessment approaches</p>                                       | <p>Fellows will be encouraged to meet with the supervisor at the start of the programme and lay down the objectives of their term. A mid-term assessment will be done by the supervisor and any difficult areas in training objectives will be addressed. Fellows are to maintain a logbook of the cases that they had been counselled on, or that were audited, by the assigned Supervisor, and have it ready for inspection by the Singapore Medical Council (SMC) when required.</p> <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> </ul> <p><b>Summative assessment:</b><br/>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> |
| <p>9.2 Evaluation Process<br/>9.2.1 General overall grading system</p> | <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>  |

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|  | Grading Status  | Description                    | Grading Criteria Requirements  |
|  | <b>CMP</b>  | Completes the programme        | <ul style="list-style-type: none"> <li>Fellow completes at least 6 months of training, and achieves all the competencies of the training programme.</li> </ul>                                       |
|  | <b>USP</b>  | Unsatisfactory performance     | <ul style="list-style-type: none"> <li>Fellow completed at least 6 months of the training programme, but is not able to achieve the competencies of the training programme.</li> </ul>               |
|  | <b>DCP</b>  | Did not complete the programme | <ul style="list-style-type: none"> <li>Fellow is not able to complete at least 6 months of training.</li> </ul>  |
|  | <b>WDN</b>  | Withdrawn from the programme   | <ul style="list-style-type: none"> <li>Fellow has consistently demonstrated poor performance throughout the training period, demonstrates misdemeanour, misconduct or medical negligence.</li> </ul> |
| 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> |                                |  |
| <b>10. Course Administration</b>   | <p>Type of Certification: Certificate of Training</p> <p>Training Fee (recommended): S\$3,210 per month</p>   |                                |  |

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|   | Programme Funding source: Self-funded |
| <b>11. Number of Clinical Fellow to be accepted at any one time</b> | 1                                     |