

## **Departments offered at (TAN TOCK SENG HOSPITAL)**

### **Objectives:**

- Students will further cultural awareness and broaden their horizons.
- Students will further develop ability to participate in planning and implementation of their learning activities and making rational decisions.
- Students will take increased responsibility for self-determination in their education.
- Students will be able to identify and fulfil learning objectives that have resulted in personal growth.
- Students will develop contacts with other trainees.
- Student will achieve the specific learning outcomes as set forth by their supervisor.

*\*Departments are open to discuss learning objectives with each individual student.*

### **Hands-Off:**

For non-Singaporeans and non-Permanent Residents who are ineligible for the Work Holiday Pass.

### **Hands-On:**

For Singaporeans, Permanent Residents, and students who received the Work Holiday Pass.

Department	Period	Min / Max weeks	Type	Description
<b>Anaesthesiology, Intensive Care &amp; Pain Medicine</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	To observe anaesthetists in operating theatres, preop evaluation, postop pain rounds, chronic pain clinic; to learn the basics of anaesthesia, evaluation of patients preop, intraoperative and postop management, hands-on practice in airway management whenever appropriate.
<b>Cardiology</b>	All year round	Min. 4 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	To learn internal medicine, cardiology, intensive care medicine and clinical reasoning through active participation in patients' care and learn to optimise patients' management and outcomes through application of evidence-based practices.  <b>Required from student:</b> Write-up on why they wanted to do an elective in Cardiology and whether the elective is part of formal medical school curriculum
<b>Continuing &amp; Community Care</b>	July to October only	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Inpat community hospital assessment &amp; Management with exposure to multidisciplinary care in assessment/ management in rehabilitation, subacute care and preparation of patient to discharge to the community.</li> <li>• Community care which includes home medical and / or home clinical care, nursing home clinical visits and / or centre-based care clinical visit.</li> </ul>
<b>Diagnostic Radiology</b>	January to May July to November	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Understanding and describing imaging algorithms</li> <li>• Understanding imaging terminology, technology, and methodology</li> <li>• Awareness of the risks of imaging</li> <li>• Describing anatomical-radiological and clinical correlation</li> <li>• Development of image interpretation skills</li> <li>• Understanding use and methods of image-guided interventional procedures</li> </ul>
<b>Emergency Medicine</b>	July to March only	Min. 2 weeks Max. 4 weeks	Hands-off observership / Hands-on elective	To gain more exposure to Emergency Medicine.
<b>Endocrinology</b>	All year round	2 weeks only	Hands-off observership / Hands-on elective	Exposure to Clinical Endocrinology with attachments to both inpatient ward and outpatient clinics. Students will may also be rotated to various subspecialty clinics within Endocrinology.

<b>Gastroenterology and Hepatology</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	Students will experience Gastroenterology & Hepatology in a clinical posting setting.  <i>Max 2 weeks for observation only</i>
<b>General Medicine</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Students will further cultural awareness and broaden their horizons.</li> <li>• Students will further develop ability to participate in planning and implementation of their learning activities and making rational decisions.</li> <li>• Students will take increased responsibility for self-determination in their education.</li> <li>• Students will be able to identify and fulfil learning objectives that have resulted in personal growth.</li> <li>• Students will develop contacts with other trainees.</li> <li>• Student will achieve the specific learning outcomes as set forth by their supervisor.</li> </ul>
<b>General Surgery</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<p>Clinical exposure to the General Surgery and surgical subspecialties.</p> <p><b>Required from student:</b> Students are to choose 1-2 preferred teams to follow:</p> <p>Team 1: Colorectal Team 2: Upper GI Team 3: Trauma Team 4: Breast, Head &amp; Neck Team 5: HPB (Hepatopancreatobilliary) Vascular Surgery Thoracic Surgery PRAS (Plastic, Reconstructive and Aesthetic Surgery)</p> <p><i>*Note that attachment to teams is by every 2 weeks, subject to availability.</i></p>
<b>General Surgery (Trauma)</b>	All year round	Min. 4 weeks	Hands-off observership / Hands-on elective	<p>We encourage enthusiastic participation in both emergency and elective work. Students are also encouraged to join the team when the team goes on duty.</p> <p>The student will be attached to the trauma team, which is part of the hospital's general surgical department. They will be involved in the daily activities of the trauma team, which include ward rounds,</p>

				operating lists and clinics. Teaching during the elective shall be carried out during such sessions.
<b>Geriatric Medicine</b>	All year round	Min. 2 weeks Max. 6 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Understand a geriatric assessment on an older adult and its focus on functional and psychosocial domains in addition to the medical assessment to develop a coordinated management plan to maximise the overall health of frail older adults.</li> <li>• Develop approach to common geriatric syndromes such as delirium, dementia, falls and incontinence.</li> <li>• Understand principles involved in managing a frail older adult.</li> <li>• Appreciate the role of multidisciplinary input in the management of the older adult.</li> </ul> <p><i>Max 4 weeks for clinical only</i> <i>Max 6 weeks for clinical + research only</i></p>
<b>Haematology</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Appreciation of the use and limitations of morphology in the diagnosis of haematological conditions.</li> <li>• Appreciation of the use of other ancillary diagnostic tools in the diagnosis of haematological conditions, esp haematological malignancies.</li> </ul>
<b>Hand &amp; Reconstructive Microsurgery</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	Clinical and academic elective consisting of participation in outpatient clinic consults and wards, observation in operating theatres, benefitting from Hand continual medical education programs and research opportunities.

<b>Infectious Disease</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Students will further cultural awareness and broaden their horizons.</li> <li>• Students will further develop ability to participate in planning and implementation of their learning activities and making rational decisions.</li> <li>• Students will take increased responsibility for self-determination in their education.</li> <li>• Students will be able to identify and fulfil learning objectives that have resulted in personal growth.</li> <li>• Students will develop contacts with other trainees.</li> <li>• Student will achieve the specific learning outcomes as set forth by their supervisor.</li> <li>• Exposure to vast variety of infectious disease, knowledge acquisition, improving skills in clinical reasoning, through ward rounds, Grand Rounds, teaching sessions clinics, and interaction with supervisor.</li> <li>• Exposure to various clinical activities and programmes at NCID. This will include inpatient ward rounds and various outpatient clinics with different ID consultants. The student will be attached to Antimicrobial Stewardship, Outpatient Antimicrobial Therapy, Infection Control and HIV programmes. The student will attend our weekly teaching activities for medical officers and our inter-hospital ward rounds. This elective is suitable for the student interested in the field of infectious disease and/or interested in clinical skills and reasoning.</li> </ul>
<b>Medical Oncology</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	To experience Medical Oncology in more depth, following the team for inpatient wards, blue letters, and clinics under the close supervision of a mentor.
<b>Ophthalmology</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	To gain a wider and more in-depth exposure to Ophthalmology through attachments to General Ophthalmology and Ophthalmology sub-specialty clinics and operating theatres.
<b>Orthopaedic Surgery</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<p>To experience the various aspects of orthopaedic surgery within the assigned teams, by joining ward rounds, clinics and Operating Theatres.</p> <p><b>Required from student:</b> To choose 1-2 preferred teams to follow:</p>

				<p>Spine Adult Reconstruction Foot and Ankle Sports Trauma Tumour</p> <p><i>*Note that attachment to teams is by every 2 weeks and subject to supervisors availability.</i></p>
<b>Otorhinolaryngology</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<p>TTSH Otorhinolaryngology elective program is highly geared towards providing optimal exposure to the field of otorhinolaryngology. This is a complete hands-on programme where the student will function as part of the team under the close supervision of a mentor.</p>
<b>Palliative Medicine</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Exposure to inpatient palliative care work including clinics, blue letters and ward.</li> <li>• Experience working in a team encompassing junior doctors and senior doctors, specialised nurses, music and art therapist.</li> <li>• Exposure to palliative care services in Singapore</li> </ul> <p><b>Required from student:</b> Short introduction of the applicant and learning objectives of the elective for consideration</p>
<b>Rehabilitation Medicine</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• To give the student a more in-depth exposure to the various rehabilitation teams</li> <li>• To give the student exposure to the multidisciplinary approach to rehabilitation management</li> <li>• To give the student exposure to outpatient clinic management</li> <li>• To give the student opportunities to join home visits, community outings with the patients and team members</li> <li>• To give the student opportunities to observe procedures such as botulinum toxin injections as well as ultrasound and electrodiagnostic evaluations</li> </ul>
<b>Renal Medicine</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Exposure to the breadth of Nephrology</li> <li>• Gain confidence in managing renal related conditions e.g. acute kidney injury, chronic kidney disease, glomerulonephritis, electrolytes disorders.</li> <li>• Develop approaches to common renal related conditions</li> </ul>

<b>Respiratory &amp; Critical Care Medicine</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	To gain exposure and training in clinical medicine in Respiratory Medicine - in both inpatient and outpatient setting.
<b>Rheumatology, Allergy &amp; Immunology</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Appreciation of the use and limitations of morphology in the diagnosis of haematological conditions.</li> <li>• Appreciation of the use of other ancillary diagnostic tools in the diagnosis of haematological conditions, esp haematological malignancies.</li> </ul>
<b>Urology</b>	All year round	Min. 2 weeks Max. 8 weeks	Hands-off observership / Hands-on elective	<ul style="list-style-type: none"> <li>• Exposure to Urological conditions.</li> <li>• Building basic foundation in laparoscopic skills including suturing.</li> <li>• Building basic foundation in open surgical skills.</li> <li>• Publishing case report at end of posting.</li> </ul>