

**SINGAPORE MEDICAL COUNCIL
ACCREDITATION OF HEPATOBILIARY & PANCREATIC SURGERY FELLOWSHIP –
AT DEPT of SURGERY, NUH**

Institution: National University Hospital

Period of Training: 12 months

Department: Department of Surgery

Training Program: HEPATOBILIARY & PANCREATIC SURGERY CLINICAL FELLOWSHIP

PROGRAM DIRECTOR (PD)

A/Prof Alfred Kow Wei Cheh

Senior Consultant and A/Prof

Division of HPB Surgery and Liver Transplantation

Department of Surgery, NUH

TRAINING DURATION AND LOCATION

The duration of the fellowship training is 12 months. The training location will be at Department of Surgery, Ng Teng Fong Hospital, Alexandra Hospital and National University Hospital.

NO. OF FELLOWS PER YEAR

The division offers a maximum of 2 fellowship positions per year.

ENTRY REQUIREMENTS

- a) Medical degree
- b) Specialist in general surgery (with appropriate qualifications in basic general surgery training in the respective country)
- c) Exited from a higher surgical training scheme in their own country and have had at least one year's post qualification experience in HPB surgery
- d) 35 years and above
- e) Interview and selection criteria
- f) Basic Minimally invasive surgery training certificates (where relevant)
- g) Proficiency in English language (IELTS score at least 7 in all subjects, or equivalent)

OBJECTIVES OF TRAINING

Serving as a regional tertiary referral centre for diseases of the Liver, Pancreas and Biliary system, our team of doctors are committed to provide the highest standards of treatments through delivering advancing surgical skills and knowledge and at the same time spreading such expertise and skills around the region.

Through international fellowship, we are able to train appropriate level of international fellows to hone skills, knowledge and professionalism in advanced hepatobiliary & pancreatic surgery. We also conduct various workshops and seminars with participation from surgeons and other physicians from the region and internationally. These will help to increase the enhance interaction and networking on top of skills transference. We propose to extend the advanced HPB surgery fellowship programme training to NUHS (NTFGH, AH, NUH).

This fellowship program aims to provide the fellow will the end goals:

- 1. To be able to provide comprehensive, state-of-the-art medical and surgical care to patients with surgical diseases/disorders of the liver, pancreas, biliary tract and duodenum
- 2. To be able to acquire skills in performing basic and complex HPB surgery, including the liver,

pancreas, biliary tract and duodenum

3. To be able to learn about operating theatre set-up and technology integration
4. To be able to demonstrate the ability to investigate, diagnose, recommend appropriate treatment options and provide the pre- peri- and late postoperative care
5. Be able to learn how through a multidisciplinary team comprising of surgeons, gastroenterologists, interventional radiologists and oncologists
6. Be able to demonstrate understanding in scientific research through journal clubs and research activities, where relevant.

Fellows who are keen to enter the advanced HPB surgery program in NUHS (NTFGH, AH, NUH) must have completed general surgery training in their respective countries. They will be provided with the opportunities to be actively involved in major and complex procedures like liver and pancreas resections and liver transplantation.

COMPONENTS OF TRAINING

Ward Rounds	Daily
Outpatient Clinics	3 to 4 times a week
Operating theatres	2 to 3 days a week (elective - Major) 1 day (elective - Day Surgery) Emergency surgery (where relevant)
On-call roster	General surgery and HPB on-call roster (inclusive of night duties)
Research	Journal clubs and data review for research Laboratory research activities (where suitable)

Depending on the duration of training, the fellow will be encouraged to conduct clinical research or to liaise with research staff in the division to complete one or more projects. Fellows are encouraged to achieve at least one to two research papers publication upon completion their training programme (with opportunity to present the findings at international conferences).

METHOD OF TRAINING

During the training period (1 year), trainees will be exposed to basic and advanced HPB surgical procedures under supervision in order to achieve competencies in these areas (See Annex A).

The programme will consist of knowledge and skills acquisition in the following areas:

1. Gallbladder diseases/ disorders
2. Benign and malignant biliary tract diseases/ disorders
3. Benign and malignant liver diseases/ disorders
4. Benign and malignant pancreatic diseases/ disorders
5. Benign and malignant splenic diseases/ disorders
6. Endoscopic and radiological methods of managing HPB conditions
7. Liver transplantation (deceased and living donor liver transplantation)
8. Minimally invasive surgery in HPB, including laparoscopic (possibly robotic) liver resection, pancreatic resection and biliary surgery.

Fellows are expected to already have foundational knowledge in HPB surgery and enhance the proficiency in these areas clinical mentorship and academic activities. Fellows are encouraged to

pursue their own research projects with the aim of presenting them at various National and International meetings and finally getting them published in peer-reviewed journals.

FREQUENCY OF TRAINING

In addition to attending the appropriate General Surgical Teaching Program on Tuesdays and Wednesdays, the Fellow will actively take part in weekly HPB teachings on Mondays and attend MDT meetings on Tuesday (Tumour Board). In addition, the Fellow will be expected to actively take part in liver transplant meetings on Thursdays including journal clubs once a month. Hospital grand rounds on Friday mornings will also be mandatory when HPB related topics are presented.

There will also be surgical skills workshops (including general surgery and advanced HPB surgery and liver transplantation workshops etc) that the fellow can participate in during the course of training (where relevant). Fellows are allowed four weeks of personal leave in the 12 months of training period (prorated to 1 week in 3 months, where applicable).

ROTATIONS TO OTHER DIVISIONS OR SERVICES

The fellow will spend most of his training time with the Division of HPB Surgery and Liver Transplantation during his/her period of training. However, the fellow may be requested to rotate as to other Divisions or Services in Department of Surgery which is related to the Division of HPB Surgery and Liver Transplantation. This rotation will only be a minor component of the overall training and will be subject to the approval from the relevant department. The fellow will be practising at Department of Surgery, Ng Teng Fong Hospital, Alexandra Hospital and National University Hospital only.

Name of Institution	Percentage of Time	Department / Division(s)
National University Hospital	60-100%	Surgery / General Surgery & HPB Surgery and Liver Transplantation
Alexandra Hospital	Maximum 20%	Surgery / General Surgery & HPB Surgery and Liver Transplantation
Ng Teng Fong Hospital	Maximum 20%	Surgery / General Surgery & HPB Surgery and Liver Transplantation

SUPERVISION

The fellow will be assigned to one of the SMC-approved supervisors from the from the Department of Surgery, Ng Teng Fong Hospital, Alexandra Hospital and National University Hospital only, at all times.

ASSESSMENT METHOD / FEEDBACK MECHANISM FOR TRAINEES

A contract on the objectives will be signed by the programme director and the Fellow at the start of the program. Progress will be reviewed at three months and six months and any deficiencies attended to in the next period of time.

Fellows will be encouraged to meet with the supervisor at the start of the program 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 will be encouraged to maintain a log book of operations they get involved in. Research output in the form of presentation and publications will be considered. An end of fellowship certificate will be issued on successful completion of the period of fellowship.

The fellows are also welcomed to provide their feedback in writing to the Program Director or by completing the Feedback Form provided by the Medical Affairs - Education.

CRITERIA FOR TERMINATION

In addition to disciplinary matters which may result in immediate termination of a fellow's employment, unsatisfactory review reports at six months could result in early termination of the fellowship.