

**SINGAPORE MEDICAL COUNCIL
ACCREDITATION OF MINIMALLY INVASIVE SURGERY ADVANCED FELLOWSHIP – AT
DEPT of SURGERY, NUH**

Institution: National University Hospital

Period of Training: 24 months

Department: Department of Surgery

Training Program: MINIMALLY INVASIVE SURGERY ADVANCED FELLOWSHIP

PROGRAM DIRECTOR (PD)

Davide Lomanto

Senior Consultant and Professor

Division of General Surgery

Department of Surgery, NUH

NO. OF FELLOWS PER YEAR

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

ENTRY REQUIREMENTS

3. Medical Degree
4. Specialist in General Surgery
5. Age limit of 40 years' old
6. Interview
7. Basic MIS Certificate
8. Proficiency in English (IELTS score of at least 7 in all subject)
9. At least minimum 3 years after completion of postgraduate programme in surgery
10. The programme is independent and no prior completion of any basic/advanced Clinical Fellowship in NUHS is required.

OBJECTIVES OF TRAINING

The program is primarily intended for surgical specialists in General Surgery with certification in Basic endo-laparoscopic skills, who wish to acquire advanced structured training in Laparoscopic and Minimally Invasive Surgery.

The objective is to enable the participant to develop core competencies in the following aspects of Minimal Access Surgery:

1. Operating Theatre Set-up and Technology Integration
2. Anesthetic Implications in Laparoscopic Surgery
3. Image Capture & Video Editing
4. Competency in Advanced Surgical procedures

COMPONENTS OF TRAINING

Training will be based on Clinical Training with proper supervision by Consultant and Senior Consultants among different Specialty. It will be integrated with attendance to Clinics, General Surgery on-call rosters, Specialized Workshops, training on simulators for advanced procedures and eventually also on live-tissue. On-call rosters will also include night duties. The clinical program will also be integrated with research activities either clinical research or laboratory activities featured by our research program. The trainee will be integrated in ongoing research protocols. The research activities will be than results in presentations at International or Local Conferences and publication in peer-reviewed journals.

METHODS AND DURATION OF TRAINING

The maximum period of training is 24 months during which the Trainee will be expose to training and assisting in advanced surgical procedures under supervision and once acquired proficiency on his own with proper supervision during which different level of skills are acquired. Two Trainee/Clinical Fellows may be admitted at the same time for the same program. The training location will be at Department of Surgery, Ng Teng Fong Hospital, Alexandra Hospital and National University Hospital.

The program will consist in acquiring Endo lap surgical expertise on:

12. Intracorporeal Suturing
13. Extra-corporeal Knot Tying
14. Laparoscopic Ultrasonography
15. Stapling & Anastomosis
16. Managing Complications of Minimally Invasive Surgery
17. Upper Gastro-Intestinal Surgery
18. Obesity Surgery

19. Hepato-biliary Surgery
20. Pancreatic Surgery
21. Colorectal Surgery
22. Endocrine Surgery

FREQUENCY OF TRAINING

Training is daily following the rules of the Hospital and generally at least 5 days a week. One-week personal leave will be granted on a 6 monthly basis.

ROTATIONS TO INSTITUTION/DEPARTMENT

The fellow will spend most of his training time with the Division of General Surgery 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 General Surgery, on a two-months' basis. 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 practicing 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
Alexandra Hospital	Maximum 20%	Surgery / General Surgery
Ng Teng Fong Hospital	Maximum 20%	Surgery / General Surgery

SUPERVISION

The supervisee would be supervised at all times by a SMC-approved supervisor from Department of Surgery, NUH, NTFGH or AH. The consultant in charge will be required to verify continuously clinical practice, behavior, teamwork, role model and if necessary, give feedback for improvement. Where clinical rotations at AH & NTFGH, the clinical fellow will be supervised by Consultant Surgeon on site and the feedback on performance will be solicited by the primary SMC-approved supervisor, Department of Surgery, NUH

TRAINEE ASSESSMENT

The candidate will be required to demonstrate competency in all basic endoscopic skills and should be able to function independently when performing advanced endolap procedures.

The candidate will also be required to demonstrate a competent level of understanding of the principles of:

After 24 months

14. Endoscopic Thyroidectomy
15. Fundoplication
16. Adrenalectomy
17. Simple nephrectomy
18. VATS decortication
19. Wedge Resection
20. Thoracoscopic sympathectomy
21. Thoracoscopic lung biopsy
22. Inguinal hernia repair
23. Ventral hernia repair
24. Gastric Banding
25. Gastric Wedge Resection
26. Sleeve gastrectomy

The candidates will be required to participate in clinical and/or scientific based research leading to a publication in a refereed journal.

FEEDBACK MECHANISM FOR TRAINEES

A continuous monitoring of the activities of the Trainee will be monitored monthly by the Supervisor to ascertain that the training purpose of the program are followed, and the goals of the program are achieved. A continuous feedback and counseling of the Trainee is made on monthly base to verify that Trainee is adequately exposed to the training program.

CRITERIA FOR TERMINATION

In case of any lapses in clinical activities or protocol, inadequate behavior towards colleagues and staffs or any other unacceptable behavior by the Trainee that is in contrast.