

**Division of Maternal Fetal Medicine (MFM)
Department of Obstetrics and Gynaecology
National University Health System (NUHS)
Fetal Medicine Training Programme for Clinical Fellows**

New Training Programme

Clinical Fellowship in Fetal Medicine

Programme Director

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Duration of Training Programme

Minimum of 1 year (12 months), subject to conditions set by the National University Hospital (NUH), Singapore Medical Council (SMC), and the Ministry of Manpower (MOM).

The Department strongly encourages applications of a 12-month duration instead of a 6-month duration. We would be amenable with this 6-month criterion for candidates applying from government agencies or ministries, considering their job requirements and funding available. If there are restrictions on funding or approvals in service leaves, the Department may consider these candidates and requests on a case-by-case basis; however, we note that the exposure that the candidate will have at our Centre will be limited.

We strongly recommend a duration of 1-year (12-months) for a more complete and well-rounded training programme in this Clinical Fellowship.

Objectives of the Training Programme

- The Department offers a Clinical Fellowship in Fetal Medicine to local and overseas candidates.
- This program will train Clinical Fellows in managing high risk obstetric patients with complicated fetal conditions.
- Clinical Fellows will:
 - Obtain new clinical experience in one of the top academic hospitals in Asia.
 - Be proficient in diagnosing and managing pregnant mothers with complicated fetal conditions.
 - Be proficient in performing prenatal ultrasound scans.
 - Participate in clinical research and collaborate with local, regional, and international researchers.
 - Participate in meetings and conferences led by renowned local and international experts.

Training Goals and Requirements

At the end of the training period, the Clinical Fellow must show competency in:

- Performing prenatal ultrasounds in both low risk and high-risk pregnancy women.
- Screening for fetal abnormalities.

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- Assist in managing patients with a wide range of complicated fetal conditions.
- Involvement will vary depending on level of experience prior to training, with the aim that all Clinical Fellows will be competent in patient care and counselling.
- Proficient in gynae scans including scans for endometriosis and accrete spectrum.
- Complete the FMF learning modules.

Entry Requirements

- Must have a recognised Medical Degree to be registered with the Singapore Medical Council (SMC).
- Completed postgraduate training with Specialist certification in Obstetrics and Gynaecology in their home country or equivalent (has at least 3 years of experience as a Medical Officer in the speciality after Housemanship / Internship).
- Good academic record with at least 3 referee reports.
- Evidence of English Proficiency – International medical graduates are required to show evidence of proficiency in the English Language if their basic medical degree is obtained from a medical school where the medium of instruction is not in English.
- Test results obtained from the
 - International English Language Testing System (IELTS UK) – at least 7 in each of the four components (Listening, Reading, Writing and Speaking) for the academic module);
 - or the Test of English as a Foreign Language (TOEFL US) – only TOEFL Internet based test (iBT) will be accepted, score of at least 25 in each of the four components (listening, reading, writing and speaking), the overall score must be at least 100;
 - or Occupational English Test (OET Australia) – at least Grade B in each of the four components (listening, reading, writing and speaking); must be obtained in a single sitting. The test results must be at least at the minimum scores listed above, and the test results will only be accepted if it is within 2 years from the date of the test.
- Has valid training pass issued by the Ministry of Manpower (MOM) Singapore.
- Has Health Insurance cover and Medical Malpractice Insurance cover.
- Has valid BCLS Certification.

Selection Process

- Shortlisted candidates will be called for an interview with a Panel, chaired by the Head of Department.
- Final selection will be decided by the Selection Committee, led by the Head of Department.
- Final confirmation of position will be subjected to NUH Human Resources / Medical Affairs, SMC Registration, and NUH Department of O&G.

Maximum Intake for this Training Programme

There shall be a maximum of two (2) Clinical Fellows under this Training Programme at any one time. They will closely follow the MFM Consultant / Registrar during their posting.

Components of Training

Type of Training

Clinical Training

Method of Training

- All Clinical Fellows will be assigned to a Supervisor.
- Supervised clinical attachment to Fetal Medicine Clinics, Fetal Care Centre (FCC), and Antenatal Ward.
- There will be regular reviews and assessments by the Supervisor at specific intervals throughout the training.
- Hands-on (supervised) training in obstetric ultrasound.

Frequency / Weekly Schedule Overview

1. Clinical

- Supervised hands-on ultrasound training on prenatal women in FCC.
- Assist in the management and care of patients with complicated fetal conditions in the Fetal Medicine Clinic.
- Assist and eventually perform fetal wellbeing scans (AFI and Doppler studies) on Obstetric patients in the Antenatal Wards and Delivery Suite.
- Part of a multidisciplinary team involving Paediatric Genetics, Paediatric Cardiology, and other relevant subspecialties managing patients with fetal conditions.
- Assist in the management and follow up on patients discussed at the FeMTHeM Meetings.
- Update the neonatal outcomes in the FCC database.

2. Education

- Attend daily Departmental Morning Meetings held from Mondays to Thursdays, from 7:30 AM to 8:30 AM.
- Attend weekly MFM Division Clinical Meetings held on Thursdays, from 12:30 PM to 2:00 PM. These meetings generally consist of interesting case presentations, risk management, and a review of relevant topics.
- Attend NUH Hospital Grand Rounds held on Fridays, from 7:30 AM to 8:30 AM. This is a combined meeting of all the disciplines in NUH.
- Complete The Fetal Maternal Foundation (FMF) online modules on:
 - 11-13 weeks scan
 - Preeclampsia screening
 - Fetal abnormalities
 - Fetal echocardiography
 - Doppler ultrasound

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- Cervical assessment
- Placenta Accreta Spectrum (PAS)
- Attend and participate in monthly Departmental Fetal Medicine Therapy Multidisciplinary Team Meetings (FeMTHeM).
- Involved in teaching undergraduate and postgraduate medical students.

The weekly schedule is shown as follows (subject to change):

Time	Monday	Tuesday	Wednesday	Thursday	Friday
7:30 AM to 8:30 AM	Departmental Daily Morning Teaching				NUH Grand Round
8:30 AM – 12:30 PM	Fetal Care Centre (FCC)		Fetal Medicine Clinic	Fetal Care Centre (FCC)	
12:30 PM to 2:00 PM				MFM Division Meeting	
2:00 PM to 5:00 PM	Fetal Care Centre (FCC)		Fetal Medicine Clinic		Fetal Care Centre (FCC)

- Attendance of >90% is required for Departmental Morning Meetings.
- Attendance of >80% is required for Hospital Grand Rounds.

3. Research

- Responsible for keeping the FCC database and outcome of cases presented at the Fetal Medicine Therapy Multidisciplinary Team Meetings (FeMTHeM).
- Participate in a research project during the training period and produce ONE publication upon completion of the Fellowship.
- Publication must be in a whitelisted journal with an Impact Factor > 1.5.
- Present their research project at the Departmental High-Risk Consortium.

4. Administration

- Responsible for the FCC Results Pool on EPIC and should ensure that all results are vetted within 21 days.
- Responsible for the outstanding FCC orders and should ensure that all scans are performed in a timely manner.
- Undertake an Improvement Project on either Patient information Leaflets, Educational Videos, Clinical SOPs, or Clinical Audits, under Consultant Supervision.

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Night and/or On-Call Duty

2 to 4 on call night duties for per month.

Rotation(s) to other Institution(s) / Department(s)

Clinical Fellows will practice 100% only in the Division of Maternal Fetal Medicine (Department of Obstetrics and Gynaecology, National University Hospital).

Supervision Method

An overall supervisor (a Registrar or Consultant) will be primarily assigned to the Clinical Fellow for the duration of the training. The supervisee would always be supervised by an SMC-approved supervisor from the Division of Maternal Fetal Medicine (Department of Obstetrics and Gynaecology, National University Hospital).

Assessment Method

- There will be a periodic review with Supervisors on whether training objectives have been met.
- There will be clinical interaction with Peers, Registrars, and Consultants.
- The Clinical Fellow must maintain a training log.
- All teaching sessions attended, cases seen, and research activities conducted during the training period must be documented in the training log.
- Clinical Fellows will be assessed on 6 core competencies:
 - Patient Care
 - Medical Knowledge
 - Practice based learning and improvement
 - Interpersonal and communication skills
 - Professionalism
 - System based practice
 - Documentation
- Supervisors will be responsible for completing assessment forms every month for the first two months, and every three months thereafter.
- Feedback will be provided during reviews with the assigned Supervisor.
- The Fellowship assessment will be portfolio based and will include long case discussions, Mini-CEX, and Case Based discussions during the middle and end of the posting.

Criteria for Early Termination

- Termination will be upon completion of the 12 months training duration, or earlier if there is any misconduct or professional delinquency during this period; or unsatisfactory reports.

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- Termination of the training is at the absolute discretion of the Head of Department and will abide by the guidelines set by NUH Human Resources and/or Medical Affairs.

Feedback Mechanism for Trainees

All candidates and their Supervisors are required to complete SMC's Assessment Reports and return them to Medical Affairs (Education Office), before the end of the training.