

**TRAINING STRUCTURE FOR
SPECIALTY TRAINING VIA PARALLEL PATHWAY PROGRAMME
(PROGRAM LATIHAN KEPAKARAN PARALLEL PATHWAY)
IN MINISTRY OF HEALTH MALAYSIA
MARCH 2019**

SPECIALTY:

ANAESTHESIOLOGY

DEGREE AWARDED:

**CERTIFICATE OF COMPLETION OF TRAINING (CCT),
FELLOWSHIP OF COLLEGE OF ANESTHETISTS OF IRELAND (FCAI)**

1. INTRODUCTION

- 1.1. This document is intended to inform the structure of specialty training in Anaesthesiology by sitting for the College of Anaesthetists of Ireland MCAI and FCAI examinations in the parallel pathway training programme in Malaysia and the subscribed training programme that is as the same standard as concurrent programme conducted in Ireland.
- 1.2. It also outlines the requirements for training and the criteria for certification of completion of training (CCT) that leads to recommendation for gazettelement as a Specialist in Anaesthesiology in Malaysia as well as registration in National Specialists Register of Malaysia (NSR).
- 1.3. Important information in this document is accurate at the date of publication. However, regulations are continually evolving and new information will be posted to the College of Anaesthesiologists, Academy of Medicine Malaysia.
- 1.4. Where other institutions are referred to (e.g. College of Anaesthetists of Ireland) we have given our interpretation of their regulations but the institution itself should be contacted for definitive information.
- 1.5. A copy of this document is available on the College of Anaesthesiologists, Academy of Medicine Malaysia (COA AMM) website at www.coanaes.com

2. BACKGROUND

- 2.1. Fellowship of College of Anaesthetists of Ireland (FCAI), is a recognised parallel pathway specialty qualification training program in Anaesthesiology in MOH Malaysia since 2014.
- 2.2. As a recognised Training Body, the College of Anaesthetists of Ireland is responsible for setting training standards and for the organisation, supervision and counselling of doctors in Anaesthesiology training in Ireland. Completion of specialist training is

recognised by the award of Certificate of Completion of Training (CCT) by the General Medical Council Ireland.

- 2.3. In Malaysia, FCAI training programme and CCT is overseen by Ministry of Health (MOH) Malaysia and College of Anaesthesiologists, Academy of Medicine Malaysia (COA-AMM).
- 2.4. The parallel pathway training programme is structured to maximise opportunities for learning and to provide a broad range of experience in different types of hospitals and of different sub-specialties in anaesthesia in parallel with the experience a trainee would obtain in Ireland.
- 2.5. Opportunities for learning, which comprise of theoretical learning, clinical learning and practical experiences with recommended courses and clinical rotations, will be made available for the trainee in preparation to sit the MCAI-OSCE/SOE and FCAI examinations and CCT.

3. ENTRY REQUIREMENT AND STRUCTURE OF TRAINING

- 3.1. The entry requirement to the MCAI-MCQ examination is a minimum of 6 months anaesthesia experience obtained post housemanship in any anaesthesia specialist based hospital and has acquired full registration with Malaysia Medical Council (MMC).
- 3.2. This is followed by training based in regional or accredited hospitals recognised by the College of Anaesthetists of Ireland for another 6 months for the trainee to be eligible to sit for the MCAI-OSCE/SOE examinations.
- 3.3. The entry requirement to the FCAI examination is a minimum of 36 months anaesthesia experience, with 30 months based in regional or accredited hospitals.
- 3.4. Upon passing the FCAI examination, the trainee will continue with a structured 3 years' competency training program, subject to close supervision. During these 3 years trainees will undergo formal assessments and are expected to record their clinical practice and academic activities in logbook.
- 3.5. Progression through these 3 years will depend upon achieving essential competencies, and these will be reviewed through formal Supervisor Reports by appointed Supervisors of Training and Head of Departments.
- 3.6. Training will not be considered complete until a formal review has taken place, this will then lead to the recommendation for CCT and gazettelement as a Specialist in Anaesthesiology in Malaysia and registration in National Specialist Register.

4. HOSPITAL AND ROTATION POSTINGS

- 4.1. A Specialist Based Hospital is any hospital where there is an Anaesthesia Department with anaesthesia service provided by a qualified Specialist in Anaesthesiology.

4.2. A Regional Hospital is a hospital where there is an established anaesthesia specialty training program. This will include hospitals recognised for training in Master in Anaesthesiology. The Regional Hospitals are listed as below:

- 4.2.1. Hospital Sultanah Bahiyah, Alor Setar
- 4.2.2. Hospital Raja Permaisuri Bainun, Ipoh
- 4.2.3. Hospital Selayang
- 4.2.4. Hospital Sungai Buloh
- 4.2.5. Hospital Serdang
- 4.2.6. Hospital Putrajaya
- 4.2.7. Hospital Tengku Ampuan Rahimah, Klang
- 4.2.8. Hospital Tuanku Ja'afar, Seremban
- 4.2.9. Hospital Melaka
- 4.2.10. Hospital Raja Perempuan Zainab II, Kota Bahru
- 4.2.11. Hospital Sultanah Nur Zahirah, Kuala Trengganu
- 4.2.12. Hospital Tengku Ampuan Afzan, Kuantan
- 4.2.13. Hospital Sultanah Aminah, Johor Bahru
- 4.2.14. Hospital Sultan Ismail, Johor
- 4.2.15. Hospital Umum Sarawak, Kuching
- 4.2.16. Hospital Queen Elizabeth 1, Kota Kinabalu
- 4.2.17. Hospital Ampang

4.3. An Accredited Hospital is a hospital accredited by the College of Anaesthetists of Ireland. Accreditation is obtained after a satisfactory inspection visit by representatives from the College of Anaesthetists of Ireland, hence the list may change. The current Accredited Hospitals are listed as below:

- 4.3.1. Hospital Kuala Lumpur
- 4.3.2. Hospital Pulau Pinang
- 4.3.3. Hospital Sultanah Aminah, Johor Bahru
- 4.3.4. University Malaya Medical Center
- 4.3.5. Universiti Kebangsaan Malaysia Medical Center

4.4. The trainee will spend the duration of training as follows:

Year in Service	FCAI Training Year	Specialty Training via Parallel Pathway - FCAI	
1	-	Housemanship	
2	-	Housemanship. Registration with MMC	
3	Year 1	6 months anaesthesia experience in any specialist based hospital	Eligible to sit for MCAI-MCQ
		6 months anaesthesia experience in Regional or Accredited Hospital	Eligible to sit for MCAI-OSCE/SOE
4	Year 2	Posting in Regional or Accredited Hospital	
5	Year 3	Posting in Regional or Accredited Hospital	Eligible to sit for FCAI examination upon completion of 36 months anaesthesia experience
		Selected subspecialty anaesthesia rotation to other Regional or Accredited Hospitals	
6	Year 4	Posting in Accredited Hospital	Competency training
		Selected subspecialty anaesthesia rotation to other Regional or Accredited Hospitals	
7	Year 5	Posting in Accredited Hospital	Competency training
		Selected subspecialty anaesthesia rotation to other Regional or Accredited Hospitals	
8	Year 6	Posting in Accredited Hospital	Competency training Certification of Completion of Training (CCT)
		Selected subspecialty anaesthesia rotation to other Regional or Accredited Hospitals	

5. **SPECIALIST ANAESTHESIA TRAINING (YEAR 1-3)**

- 5.1. The College of Anaesthetists of Ireland approves the first 6 months of anaesthesia training in any anaesthesia specialist based hospital in Malaysia as an eligibility criterion to sit for MCAI-MCQ.
- 5.2. The College of Anaesthetists of Ireland requires that the MCAI-OSCE/SOE be sat after completion of 12 months of anaesthesia practice and that 6 months of the 12 months be spent in a Regional or Accredited Hospital as an eligibility criterion to sit for MCAI-OSCE/SOE.

- 5.3. The College of Anaesthetists of Ireland exam regulations state that non-CAI trainees (i.e. trainees outside of Ireland) must have 36 months of attested, verified and notarized full-time anaesthesia experience to be eligible to sit for the FCAI. In Ireland, the College approves training posts in suitable hospitals for a specific duration of time.
- 5.4. Hence, MOH and COA-AMM require that
- 5.4.1. The first 6 months of anaesthesia training may be spent in any anaesthesia specialist based hospital in Malaysia
 - 5.4.2. Upon passing the MCAI-MCQ the trainee spends the next 6 months of training in Year 1 in a Regional or Accredited Hospital.
 - 5.4.3. Upon passing the MCAI the trainee continues Year 2 and 3 of training in a Regional or Accredited Hospital.
 - 5.4.4. Rotations to other Regional or Accredited Hospitals for selected subspecialty anaesthesia experience when required will be facilitated.
- 5.5. Satisfactory In-Training Assessments will be required through Year 1 to 3.
- 5.5.1. Annual Supervisor Report - copy can be obtained from Head of Department.
 - 5.5.2. Directly Observed Procedural Skills (DOPS) - DOPS forms can be obtained from Supervisor of Training.
 - 5.5.3. Log book - hard-copy is available upon request from the College of Anaesthesiologists, Academy of Medicine of Malaysia. *Same as Master Med (Anaesthesia)*
- 5.6. Application to sit for MCAI – MCQ and transfer to Regional Hospital**
- 5.6.1. To apply to sit for the MCAI-MCQ the candidate must be registered with the Malaysian Medical Council and have a minimum of 6 months anaesthesia experience in an anaesthesia specialist-based hospital.
 - 5.6.2. The candidate may apply to sit for the MCAI-MCQ through the CAI website, which will direct all Malaysian candidates to the Malaysian web page.
 - 5.6.3. Upon passing the MCAI – MCQ the candidate must inform MOH and a written request for transfer to a Regional or Accredited Hospital must be made.
 - 5.6.4. The allocation of destination Regional or Accredited Hospital is the purview of MOH, subject to feasibility factors.
- 5.7. Application to sit for MCAI – OSCE/SOE**
- 5.7.1. To apply to sit for the MCAI – OSCE/SOE the candidate must have a minimum of 12 months' experience in anaesthesia, out of which a minimum of 6 months must be spent in a Regional or Accredited Hospital.
 - 5.7.2. The candidate may apply to sit for the MCAI – OSCE/SOE through the CAI website which will direct all Malaysian candidates to the Malaysian web-page.
 - 5.7.3. Upon passing the MCAI – OSCE/SOE the candidate must inform MOH.
- 5.8. The validity of MCAI result is stipulated by the CAI as below**
- 5.8.1. Trainees may only progress to the OSCE/SOE section of the MCAI examination if they have passed the MCAI-MCQ examination.
 - 5.8.2. The results of a trainee who has passed the MCAI-MCQ will remain valid for a period of three years (six sittings) for OSCE/SOE attempts taken from the published start date of the first OSCE/SOE undertaken.
 - 5.8.3. A pass in the whole MCAI is valid for 10 years for entry into the Final FCAI Examination. After three years (i.e. 6 sittings) if the trainee has not passed the

MCAI i.e. the trainee has not been successful in the OSCE/SOE sections, the MCQ must be re-taken.

5.9. Application to sit for FCAI and transfer to Accredited Hospital

- 5.9.1. To apply to sit for the FCAI the candidate must have a minimum of 36 months' experience in anaesthesia, out of which a minimum of 30 months must be spent in a Regional or Accredited Hospital.
- 5.9.2. The candidate may apply to sit for the FCAI through the CAI website which will direct all Malaysian candidates to the Malaysian web-page.
- 5.9.3. Upon passing the FCAI the candidate must inform MOH and a written request for transfer to an Accredited Hospital must be made for Year 4-6 competency training.
- 5.9.4. The allocation of destination Accredited Hospital is the purview of MOH, subject to feasibility factors.

6. SPECIALIST ANAESTHESIA TRAINING (YEAR 4-6)

- 6.1.1. The requirements for progression to Year 4 are as follows:
 - 6.1.1.1. Trainees must be successful in FCAI
 - 6.1.1.2. Trainees must be posted in an Accredited Hospital.
- 6.1.2. Satisfactory In-Training Assessments will be a required throughout Year 4 - 6.
 - 6.1.2.1. Six (6) monthly Supervisor Reports - copy can be obtained from Head of Department.
 - 6.1.2.2. Six (6) monthly In-Training Viva Assessment – a total of 6 viva sessions will be conducted.
 - 6.1.2.3. Directly Observed Procedural Skills (DOPS) - DOPS forms can be obtained from Supervisor of Training.
 - 6.1.2.4. Three (3) Case Based Discussions per year
 - 6.1.2.5. Log book. Hard-copy is available upon request from the College of Anaesthesiologists, Academy of Medicine of Malaysia. *Same as Master. Med (Anaesthesia)*
- 6.1.3. Research
 - 6.1.3.1. As part of competency training the Trainee is required to complete a research project. It may be of any study types except case report.
 - 6.1.3.2. Within the first 6 months of Year 4 the trainee is required to submit a project proposal to the supervisor.
 - 6.1.3.3. The supervisor will check on the progress of the proposal at the beginning of Year 5.
 - 6.1.3.4. The project must be completed and presented as part of the requirement for completion of specialist training.

7. SUBSPECIALTY ANAESTHESIA ROTATIONS

- 7.1. Where possible, sub-specialty experience should be structured in a modular format. Where this is not feasible or possible, the experience may be gained as part of general rotation postings with attention to volume, case complexities and degree of consultant supervision and teaching.

7.2. The following sub-specialities rotations are essential for specialist in anaesthesia training for MCAI:

- 7.2.1. Trauma Management
- 7.2.2. Anaesthesia for General and GU surgery
- 7.2.3. Anaesthesia for Orthopaedic Surgery
- 7.2.4. Anaesthesia for ENT and Maxillofacial Surgery
- 7.2.5. Anaesthesia for Plastic and Maxillofacial Surgery
- 7.2.6. Anaesthesia for Neurosurgery and Neuroradiology
- 7.2.7. Anaesthesia for Vascular Surgery
- 7.2.8. Anaesthesia for Ambulatory Surgery
- 7.2.9. Anaesthesia for obstetrics
- 7.2.10. Monitoring and Procedures
- 7.2.11. Paediatric anaesthesia
- 7.2.12. Regional anaesthesia
- 7.2.13. Intensive Care Medicine
- 7.2.14. Pain Medicine

7.3. Sub-specialities rotations after obtaining the MCAI will include all of the above, in addition of modular rotations in:

- 7.3.1. Intensive Care Medicine for a minimum duration of 6 months, including time spent pre-MCAI.
- 7.3.2. Paediatric and Neonatal Anaesthesia for a minimum duration of 3 months.
- 7.3.3. Anaesthesia for Cardiac and Thoracic Surgery for a minimum duration of 2 months.
- 7.3.4. Respiratory Medicine for a minimum duration of 1 month.
- 7.3.5. Cardiology for a minimum duration of 1 month

7.4. In the event certain sub-specialities services are not available in the hospital where the Trainee is posted, arrangement can be made for attachment posting in relevant hospitals.

8. RECOMMENDED COURSES

8.1. The Basic Science Intensive Course is strongly recommended for Trainees prior to sitting for the MCAI.

8.2. Other recommended courses:

- 8.2.1. Airway management
- 8.2.2. ATLS/ACLS/PALS
- 8.2.3. Basic assessment and support in intensive care and mechanical ventilation
- 8.2.4. Regional anaesthesia
- 8.2.5. TIVA/TCI
- 8.2.6. Simulation course
- 8.2.7. Critical care ultrasonography
- 8.2.8. Certification of Good Clinical Practice

9. POLICY ON UNSATISFACTORY IN-TRAINING ASSESSMENT AND SUPERVISOR REPORT

9.1. When a six-monthly review of a trainee's progress is unsatisfactory, the trainee will be interviewed by the Head of Department and Supervisor of Training. The purpose

of the interview will be to identify if there is a significant problem and to discuss the resolution of this with the trainee, which may include recommendations for specific targeted training, intensified supervision or repeat experience. The Head of Department might consider it necessary to recommend a repeat in a section of the Training Programme. This may, but not necessarily, involve a delay in the progress of the training.

- 9.2. Discontinuation from Training Programme may occur when formal and informal actions have failed to help the trainee achieve a satisfactory standard and it is clear that there is no reasonable prospect of the trainee ever reaching that standard. This process should involve support and counselling to ensure the correct career choices are made.

10. POLICY ON RECOGNITION OF CAI TRAINEES OUTSIDE OF MINISTRY OF HEALTH MALAYSIA

10.1. A candidate registered as a CAI Trainee outside of Ministry of Health Malaysia may apply to join the Parallel Pathway Specialist Training in Anaesthesiology program in the Ministry of Health Malaysia.

10.2. The candidate must be registered with the Malaysian Medical Council.

10.3. Accreditation of equivalent training will be made on a case to case basis based on

10.3.1. Appropriate duration of training with adequate breadth and depth exposures to sub-specialty areas, supported by documents verifying training hospitals, subspecialty rotations and duration.

10.3.2. The duration of any leave of absence from training.

10.3.3. Evidence of competency obtained from assessment (i.e. ITA) reports, log-book and referee's report.

10.3.4. Formal enquires to CAI; past hospitals Anaesthesia Department directors or college tutors may be made.

10.4. MOH has the prerogative to determine any gap in training that may require addition training.

11. CERTIFICATION OF COMPLETION OF TRAINING (CCT) AND GAZETTEMET AS A SPECIALIST IN ANAESTHESIOLOGY AND CRITICAL CARE IN MOH

11.1. The basic premise of Gazettement

11.1.1. A formal review of the performance of the Trainee will be made by the *Jawatankuasa Penyelaras Program Latihan Kepakaran Parallel Pathway (Anestesiologi)* at the end of Year 6 (minimum 6 years), this will then lead to recommendation for Certification of Completion of Training (CCT) to Medical Development Division, MOH.

11.1.2. Upon receiving CCT the trainee will be eligible to commence a minimum period of 6 months gazettement to be a specialist in MOH. When completed the Head of Department supervising the gazettement will recommend to the Medical Development Division, MOH, to issue a letter of gazettement to the specialist.

11.2. Minimum criteria for recommendation for Certification of Completion of Training (CCT):

11.2.1. Minimum four (4) passes in In-Training Viva Assessments

11.2.2. Completed and presented research project

11.2.3. Satisfactory Supervisor Report

11.2.4. Completed log book

12. REFERENCE

1. Regulations for Specialist Training and Accreditation in Anaesthesia, College of Anaesthetists of Ireland, July 2012 updated April 2015. Available at www.anaesthesia.ie

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Jawatankuasa Penyelaras
Program Latihan Kepakaran Parallel Pathway (Anestisiologi)
Kementerian Kesihatan Malaysia
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