

NUHS ANAESTHESIOLOGY RESIDENCY PROGRAMME

The NUHS Anaesthesiology Residency Programme strives for excellence in residency training and aims to enable each resident to achieve his or her highest potential. The cornerstone of our academic mission is the training of high quality and well-rounded specialists in anaesthesia, critical care and pain medicine.

The mission of our programme is the dedicated education of our residents in all areas of knowledge, clinical, technical skills and professional attitudes related to anaesthesia. Our graduates receive the Master of Medicine (MMed), Anaesthesia Singapore and upon exit, they will be able to practise anaesthesiology independently. In addition to clinical skills, our five-year programme emphasises interpersonal skills, effective communication, professionalism, leadership in health services delivery, prudent financial resource stewardship, quality improvement programmes and the development of teaching skills.



Dr Deborah Khoo
Programme Director

Outstanding Features

Education Excellence

1. Experienced and dedicated team of faculty staff, many of whom are MMed Anaesthesia examiners and tutors
2. Strong postgraduate curriculum and training, poised to prepare the residents for the MMed anaesthesia exam
3. Excellent simulation training facilities with keen and experienced faculty
4. Training and opportunities to teach undergraduate students from NUS

Research Excellence

1. Strong research heritage in our university department, with opportunities in basic clinical and translational research
2. Mentor supervisor actively promote and facilitate research activities with a focus on research development journey rather than outcome
3. Opportunities for startup programme and collaboration with other NUHS and NUS departments and faculties

Clinical Excellence

1. One integrated training site with all essential anaesthetic subspecialty exposure including obstetric, paediatric, cardiothoracic, neuro-anaesthesia and transplant
2. Rich and diverse caseload
3. Emphasis on evidence-based practice of anaesthesia and constant upgrading of anaesthetic practice through quality improvement programmes

1st – Clinical Anaesthesiology Year (CA-1): Foundation Rotations

Academic Year One: 4-week rotations													
4weeks	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July
Goals	Orientation	Anaesthesia Fundamentals			Anaesthesia for General Surgical Conditions			Perioperative Core I	Pain Core I	ICU	Ambulatory	Regional	ICU
Actual Rotation (weeks)	Basic Anaesthesia Orientation (4 weeks)	Basic Science And Clinical Anaesthesia Fundamentals (8 - 12 weeks)			Anaesthesia for General, Orthopedic, Hand, Gynecological & Trauma Surgery (8 - 12 weeks)			PACU & Preop Clinic (4 weeks)	Acute Pain (4 weeks)	SICU (4 weeks)	Ambulatory, Remote, ENT & Ophthalmic (4 weeks)	Basic Regional Anesthesia (4 weeks)	Neuro-ICU (4 weeks)
	NUHS	NUHS / NTFGH			NUHS			NUHS		NUHS	NUHS	NUHS / NTFGH	TTSH

Research and Scholarly Work is continuous over the 3 years of Residency

(1) Anaesthesia Fundamentals (8 – 12 weeks Competency Based)

- Basic physiology and pharmacology
- Preoperative evaluation of surgical patients and assimilation of investigations into formulation of simple anaesthetic plans
- Basic airway assessment and management skills
- Basic monitoring modalities and applications
- Checking of the anaesthetic machine and other equipment
- Basic general and regional anaesthetic care
- Recovery and basic post-operative pain management

(2) Anaesthesia for General Surgical Conditions (8 – 12 weeks Competency Based)

- (Anaesthesia for General Surgery, Orthopaedics, Urology, Hand Surgery, Gynaecology, Trauma)
- (3) Perioperative Care (4 weeks)
(Preoperative Assessment Clinic 2 weeks and PACU 2 weeks)

2nd – Clinical Anaesthesiology Year (CA-2): Subspecialty Rotations

Academic Year Two: 4-week rotations														
4weeks	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	
Goals	Subspecialty Rotations									ICU	Pain Core I	Special Risk	Peri-operative Core II	ICU
Actual Rotation (weeks)	OBAN Core I (4 weeks)	Neuro Core I (4 weeks)	Cardiac Core I (4 weeks)	Paeds Core I (4 weeks)	OBAN Core II (4 weeks)	Neuro Core II (4 weeks)	Cardiac Core II (4 weeks)	Paeds Core II (4 weeks)	SICU (4 weeks)	Chronic Pain (4 weeks)	Geriatrics, Vascular, Endocrine (4 weeks)	PACU & Preop Clinic (4 weeks)	SICU (4 weeks)	
	NUHS	TTSH	NUHS	NUHS	NUHS	NUHS	NUHS	NUHS	NUHS	NUHS	NUHS	NUHS	NUHS	

Abbreviations

1. OBAN Core I & II (Obstetric Anaesthesia Core rotations I & II)
2. Neuro Core I & II (Neuro - Anaesthesia Core rotations I & II)
3. Cardiac Core I & II (Cardiac Anaesthesia Core rotations I & II)
4. Paeds Core I & II (Preoperative Assessment Clinic 2 weeks and Advanced PACU 2 weeks)
5. Perioperative Core II (Pediatric Anaesthesia Core rotations I & II)
6. Pain Core II (Chronic Pain)
7. Special Risk (Geriatrics, Vascular and Endocrine)

Participating Sites

1. TTSH (Tan Tock Seng Hospital, Neurosurgical Anaesthesia) – Site Director Dr Vera Lim (PLA)

3rd – Clinical Anaesthesiology Year (CA-3): Advanced Subspecialty Rotations

Academic Year Three: 4-week rotations													
4weeks	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July
Goals	Advanced Subspecialty Rotations								Elective			Transplant	ICU
Actual Rotation (weeks)	OBAN (Adv) (4-8 weeks)	Neuro (Adv) (4 weeks)	Cardiac (Adv) (4 weeks)	Paeds (Adv) (4 weeks)	RA (Adv) (4-8 weeks)	Airway & ENT (Adv) (4 weeks)	Special Risk (4 weeks)	Pain (Adv) (4-8 weeks)	Palliative Oncology Pain MICU Cardiology Infectious Disease Research Overseas Electives			Transplant (4 weeks)	SICU (Adv) (4 weeks)
	NUHS	NUHS	NUHS	KKH	NTFGH	NUHS	NUHS	NUHS	NUHS			NUHS	NUHS

Abbreviations

- OB (Adv) (Obstetric Anaesthesia Advanced Subspecialty Module)
- Neuro (Adv) (Neuro - Anaesthesia Advanced Subspecialty Module)
- Cardiac (Adv) (Cardiac Anaesthesia Advanced Subspecialty Module with TEE training) (Pediatric Anaesthesia Advanced Subspecialty Module)
- Paeds (Adv) (Advanced Regional Anaesthesia)
- RA (Adv) (Advanced Regional Anaesthesia)
- Airway & Monitoring (Adv) (Advanced Airway, ENT and Monitoring Module, including SSEP / MEP) (Geriatric, Vascular, High Risk Obstetrics)
- Special Risk (Renal / Liver Transplant, Upper GI and Hepatobiliary Anaesthesia)
- Transplant

Participating Sites

- KKH (KK Women's and Children's Hospital, Pediatric Anaesthesia) – Site Director Dr Angela Tan (PLA)
- NTFGH (Ng Teng Fong General Hospital, Regional Anaesthesia) – Site Director Dr Terry Pan (PLA)

Senior Residency - Clinical Anaesthesiology Year (SR 1)

Academic Year Four: 4-week rotations													
4weeks	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July
Goals	Induction Program	Subspecialty Rotations											
Actual Rotation (weeks)	Induction to Senior Residency	Advance RA	Upper GIT Surgeries	Cardiac	OBN	Paeds	Airway	Neuro	Pain	Remote and Ambulatory	Vascular	Special Surgical Risk	Liver Transplant and HPB
	NUHS												



Senior Residency - Clinical Anaesthesiology Year (SR 2)

Academic Year Five: 4-week rotations														
4weeks	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	
Goals	Anaesthesia in Different Systemic Setups				Subspecialty Rotations					Subspecialty Interest Rotations / Electives				
Actual Rotation (weeks)	RA Airway Neuro Special Surgical Risk Ambulatory and Remote Trauma Emergency Surgeries				Cardiac	OBN	Paeds	Neuro	Liver Transplant and Special Surgical Risks	Pursuant of subspecialty interest				
	NTFGH				NUHS					NUHS / NTFGH / SGH / KKH / TTSH / KTPH / CGH / OTHERS				



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