

NUHS RENAL MEDICINE SENIOR RESIDENCY PROGRAMME

Our programme aims to train Specialists in Renal Medicine with outstanding clinical skills and the ability to take leadership positions in patient care, clinical research and medical education. It offers diverse clinical experiences in the diagnosis and management of both acute and chronic kidney diseases.

This is a three and a half-year programme (two-year ACGME-I accredited + one-and a half year Renal Medicine Residency Advisory Committee accredited) provided by a committed faculty. Our programme offers adequate clinical experience rotations in acute inpatient renal medicine, inpatient nephrology consult service, ambulatory evaluation and management of kidney disease patients, and training in the multidisciplinary healthcare team model. Other essential rotations will include experience in acute and chronic hemodialysis, peritoneal dialysis, kidney transplantation, intensive care nephrology (continuous renal replacement therapy), interventional nephrology, and general nephrology.

Our programme offers senior residents unique training opportunities in National University Hospital and Ng Teng Fong General Hospital.

Outstanding Features

- Dual training sites with the full-breadth and depth of modern clinical renal medicine training (hemodialysis, peritoneal dialysis, kidney transplantation, critical care, preventive nephrology, hypertension, fluids, electrolytes and acid-base management and others).
- Evidence-based curriculum and structured training designed to train and nurture residents in the clinical skills of internal medicine and renal medicine.
- Rotations will provide broad experiences in the diagnosis and management of acute and chronic kidney diseases, including procedures (dialysis access placement and related interventions, kidney biopsy among others)
- Senior residents will be exposed to opportunities to develop skill-sets and interest in medical education, clinical research, and systems-based practice.
- Multiple opportunities to innovate and improve care, and develop into new areas of nephrology research and practice.
- Excellent work-life balance.

Programme Structure

The renal medicine training programme at NUHS provides cutting-edge training in all aspects of nephrology. NUHS Renal Medicine Senior Residency Programme is a clinical nephrology training programme with an academic training geared towards clinical practice (scholarly activity in clinical research). Senior residents can also work towards a third year of formal clinical research training. Protected time is provided in the third year for electives.



Dr Christopher Leo
Programme Director



The dialysis and transplantation units are an integral part of the renal training programme. The transplant programme is run jointly with our National University Centre for Organ Transplantation. Approximately 40 renal transplants are performed yearly. The in-centre dialysis facilities consist of an extremely dynamic 14 station unit providing acute and chronic dialysis training. Patients with active medical problems (high-dependency dialysis) return to NUH for acute care and dialysis, while those who are stable are returned to satellite facilities where possible. The CAPD programme cares for over 200 stable ambulatory patients receiving peritoneal dialysis. Our interventional nephrology services is comprehensive and the interventionist perform various dialysis access related procedures (i.e. peritoneal dialysis access catheter insertions, tunneled dialysis catheter insertions and arteriovenous fistula endovascular interventions among others). We are also building up our diagnostic imaging service and are able to perform kidney and lung ultrasonography. The senior resident is, thus, rapidly exposed to the full spectrum of acute and chronic problems that can arise in dialysis patients.

Sample block rotation

Year 1												
Block	1	2	3	4	5	6	7	8	9	10	11	12
Institution	NUH	NUH	NUH	NUH	NUH	NUH	NUH	NUH	NUH	NUH	NUH	NUH
Rotation Name	HAEMODIALYSIS (HD)						PERITONEAL DIALYSIS (PD)			GENERAL MEDICINE		
Key Activities	In-service acute and maintenance haemodialysis coverage, outpatient dialysis centre visits and high-dependency dialysis centre rounds, haemodialysis initiation transition clinics, acute kidney injury and critical care nephrology, intermittent haemodialysis, hybrid therapies, continuous renal replacement therapy, structured small group haemodialysis teachings. Newly introduced interventional nephrology and tunnelled dialysis catheter access training.						In-service acute and maintenance peritoneal dialysis coverage, outpatient PD centre reviews, PD management clinics, structured small group teachings, exposure to PD catheter insertion.			Hypertension, inpatient GM rotations.		
Year 2												
Block	1	2	3	4	5	6	7	8	9	10	11	12
Institution	NUH	NUH	NTFGH	NTFGH	NTFGH	NTFGH	NUH	NUH	NUH	NUH	NUH	NUH
Rotation Name	GENERAL MEDICINE		GENERAL NEPHROLOGY, GLOMERULONEPHRITIS, CHRONIC KIDNEY DISEASE MANAGEMENT				KIDNEY TRANSPLANTATION (TX)					
Key Activities	Hypertension, inpatient GM rotations.		Chronic kidney disease management and care, acute kidney injury, glomerulonephritis clinics, kidney biopsy training, end-stage renal disease care, dual site training exposure.				Living donor and cadaveric donor kidney transplantation. Care for kidney transplant recipients and donor assessments, immunosuppression training and safety monitoring, induction immunosuppression therapies, care of common infective complications including CMV infection, transplant kidney biopsy training, and structured teaching sessions.					
Year 3												
Block	1	2	3	4	5	6	7	8	9	10	11	12
Institution	NUH	NUH	NTFGH	NTFGH	NUH	NUH	NUH	NUH	NUH	NUH	NUH	NUH
Rotation Name	GERIATRIC MEDICINE AND NEPHROLOGY		GENERAL NEPHROLOGY		PERITONEAL DIALYSIS (PD)		GLOMERULONEPHRITIS (GN), CKD					
Key Activities	Geriatrics inpatient rotation, geriatric CKD slant.		General Nephrology, CKD, acute inpatient care provision		In-service acute and maintenance peritoneal dialysis coverage, outpatient PD centre reviews, PD management clinics, structured small group teachings, exposure to PD catheter insertion.		GN clinics (continuous exposure), native kidney biopsy training, immunosuppression training, general CKD management in diabetic kidney diseases and advanced CKD care.					

Year 3.5						
Block	1	2	3	4	5	6
Institution	NUH	NUH	NUH	NUH	NUH	NUH
Rotation Name	DIAGNOSTIC AND INTERVENTIONAL NEPHROLOGY (IN)					
Key Activities	Diagnostic imaging including ultrasound kidneys (point of care for diagnosis and follow-up) and lung (for lung fluid assessment). Dialysis access related procedure including peritoneal dialysis catheter insertion, tunneled and non-tunneled dialysis catheter insertions and endovascular arteriovenous vascular access interventions. Weekly specialty clinics to assess patients with dialysis access issues and follow-up.					



All rotations may be planned in 2 to 3 monthly rotation-blocks, with continued exposure to variety of renal diseases and medical care over 3.5 years.