

PAEDIATRIC NEPHROLOGY

Introduction

A paediatric nephrologist is a trained paediatrician specializing in the investigation and treatment of children with renal disease and renal failure. He will often share the care of these children with a general paediatrician. His place of work will normally be an established paediatric nephrology unit, which should offer a full range of renal diagnostic facilities for the treatment of acute and chronic renal failure in children.

This document does not address the training of general paediatricians with an interest in nephrology. This training document will be revised from time to time in line with the developments in paediatric nephrology and health services in Malaysia.

Objective

The objective of training is to produce paediatricians who are uniquely qualified in the management of renal disease and its myriad consequences in children from neonatal and throughout growth and development, and motivated to continue lifelong education through self learning and participate in the training of others.

They should also take a keen interest in the broader issues affecting the care of children with renal diseases including socio-economic factors and the family, which have major impact on the care with end stage renal failure and their growth and development.

Candidate Selection Criteria

The candidate who wish to pursue training in Paediatric Nephrology in the Ministry Of Health must have the following requirements:

A recognized post-graduated qualification in paediatric medicine such as MRCP/ M. Med (Local universities) or its equivalent.

AND

At least four years experience in paediatric medical practice

Duration Of Training

This will be for at least three (3) years of which 6-12 month should be spent in a recognized overseas center.

Training Programme

During the period of training, the candidate should achieve a high standard of care in both the inpatient and outpatient setting demonstrating adequate knowledge and good clinical application in the following areas:

- 5.1 The embryology of the kidney and urinary tract
- 5.2 The anatomy, histology and physiology of the kidney and its circulation under normal and abnormal conditions.
- 5.3 The pathology and pathophysiology of congenital and acquired disease of the kidney and urinary tract in the growing child.

- 5.4 The aetiology, symptomatology, diagnosis and differential diagnosis of congenital and acquired renal disease in the fetus, infant, child and adolescents and their appropriate investigation by imaging, tests of function and histopathology.
- 5.5 The performance or detailed knowledge of the following procedures:
- Renal biopsy
 - Renal ultrasound
 - Clearance techniques for the measurement of glomerular filtration rate and the activity of functionally distinct segments of the renal tubule.
 - The application of peritoneal dialysis, haemodialysis and related techniques together with peritoneal and vascular access for acute and chronic problems.
 - The use of diet and drugs for the treatment of renal diseases
 - Indication and management of surgical interventions and the urinary tract
 - A good understanding of the causes of bladder voiding abnormalities, their cystometric investigation and their medical and surgical treatment
 - A good understanding of the prevention, manifestations and management of psychosocial problems which arise in children with chronic renal disease and their parents
 - Aware of the ethical issues commonly encountered in the practice of paediatrics
 - A good understanding of the economic implications and impact of socioeconomic on the management of children with chronic renal failure
 - To design and conduct at least one research project during the three years of training

Training Centres

This should ideally be based at established paediatric nephrology units which

- Offer a full range of renal diagnostic facilities plus facilities for the treatment of acute and chronic renal failure
- Has links with a center offering paediatrics urological and renal transplant surgery
- Has adequate patient load
- Has adequate ancillary services- imaging of the kidneys and urinary tract, renal histopathology
- Can ensure that the trainee spends the major part of his/her time in paediatric nephrology
- Has sufficient access to high quality paediatrics nephrology literature which is discussed regularly
- Has appropriate contact with adult nephrology

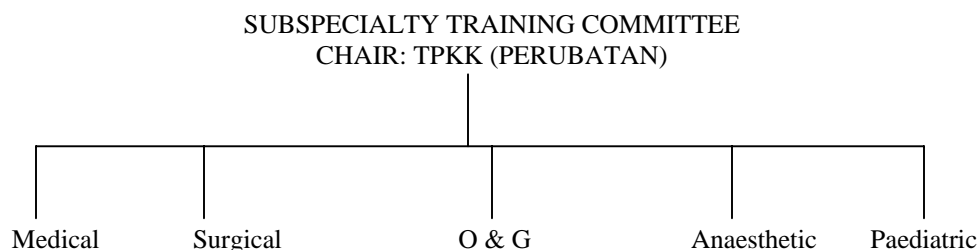
Accredited Trainers

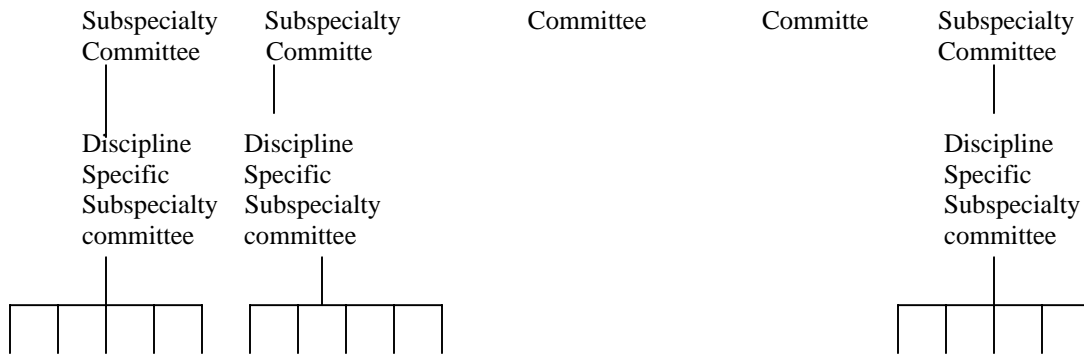
A consultant paediatric nephrologist can be accredited for training if she/he has at least 2 years working experience and demonstrate an interest in training.

The trainer should ensure that his/her center has the requirements listed in section 7 above and should ensure adequate career structure for career advancement for the trainee.

Training Committee

Organisation Of The Training Committee





Members of the Training Committee

- Chairman: Dr. Lim Yam Ngo
 Dr. Indon Lajin
 Dr. Susan Pee
 Dr. Lee Ming Lee
 Dato' Dr. Zaki Morad Mohd Zaher

The scope and responsibilities of this subcommittee are:
 Selection of candidates for training
 Placement of candidate
 Review contents of trainees
 Review the accreditation status of centers and consultants for training
 Review contents of training
 Termination of training

} in collaboration with paediatric subspecialty committee

Breach Of Contract Of Training

A trainee may be posted to a second unit for re-evaluation should the trainer find him/her unsatisfactory professionally

Accreditation

Accreditation will be granted to trainees who have satisfactorily completed their higher specialty training in paediatric nephrology and a formal evaluation. For now , it has been suggested that this should be in the form of a viva-voce.

ACCREDITED DEPARTMENT FOR TRAINING IN PAEDIATRIC NEPHROLOGY

Institution	Accredited period
Paediatric Nephrology Unit, Department Of Paediatrics, Hospital Kuala Lumpur	Full
Department Of Paediatrics, HSAJB, Johor Bharu	1 year
Department Of Paediatrics, Hospital Seremban	1 year
Department Of Pediatrics, Hospital Pulau Pinang	1 year

ACCREDITED TRAINERS IN PADIATRIC NEPHROLOGY

Lim Yam Ngo	HKL
Susan Pee	HSAJB
Lee Ming Lee	Hospital Seremban
Lynster Liaw	Hospital Pulau Pinang

PRACTICAL SKILLS PAEDIATRIC NEPHROLOGY

PRACTICAL SKILLS	NUMBER/DURATION
1. Insertion of urinary catheters	10
2. Acute peritoneal dialysis	20
3. Insertion of central lines	20
4. Renal biopsies-native and grant	20
5. Haemodialysis	4 month
6. Haemofiltration/haemodiafiltration	5
7. Renal Histology	100
8. Interpretation of X-rays and nuclear scans	100