

1. Information Related Course

1. Program Goals

Over the last 2 decades, with the vast increase in knowledge in medicine, various pediatric subspecialties have developed. Pediatric Nephrology has developed as an independent subspecialty since the last 30 years.

Common pediatric nephrology problems like Nephrotic syndrome, various types of acute glomerulonephritides and multisystem diseases like SLE (Systemic Lupus Erythematosus) which involve the kidney need specialised training and skills to manage such patients. Also children presenting with AKI (Acute Kidney Injury) need various forms of RRT (Renal Replacement Therapy), which demand clinical acumen and expertise. There are very few centres in India which provide training in Pediatric Nephrology. The aim of the fellowship is to provide an exhaustive training to enable the candidates to diagnose and treat nephrology disorders in children appropriately.

The Pediatric Nephrology speciality clinic was established in the Department of Pediatrics in 2007 and since then, children with nephro-urology diseases have been managed effectively. The Pediatric Nephrology clinic has a good outpatient load with referral from Pimpri Chinchwad, as well as peripheral areas nearby, thus providing enough exposure to the trainees.

The speciality clinic runs every Tuesday and Thursday with a patient load of approximately 20-25 patients per OPD as well as inpatients namely those presenting with AKI (Acute Kidney Injury). Pediatric Nephrology emergencies are well managed both in ER and pediatric intensive care unit. The Pediatric Nephrology speciality works in close tandem with the Pediatric Surgery team for management of children with complex CAKUT (Congenital Anomalies of Kidney & Urinary Tract), Pediatric Orthopedic team for correction of complex bone deformities and with the Neurosurgery team in perioperative management of various NTDs (Neural Tube Defects) like meningomyelocele etc causing neurogenic bladder leading to CKD (Chronic Kidney Disease)

2. Objective

The objective of this course is to provide the necessary training and clinical exposure to the candidate so that he/she can develop and manage a pediatric nephrology set up independently/ work as a consultant in pediatric nephrology.

3. Course Highlights

Level of the programme – Fellowship in Pediatric Nephrology

Eligibility for the course - MD in Pediatrics / DNB Pediatrics

Admission – Eligibility – cum- Entrance Exam and Interview at Institute –Dr. D. Y. Patil Medical College, Hospital and Research Centre, Pimpri, Pune.

Intake capacity - 01 students per year

Exam pattern - post completion of the course

2. Duration – 1 Year

3. Training Facilities –

Clinical knowledge will be acquired by a variety of means, including close liaison with appropriate pediatric medical, surgical and radiological meetings. Multidisciplinary meetings should be emphasised.

1. The trainee should be encouraged and given the opportunity to attend and lead appropriate clinico-pathologic, clinic-radiologic and multidisciplinary meetings.
2. The trainee should be encouraged to attend appropriate educational meetings and courses.
3. The trainee should participate in and initiate relevant clinical audit.
4. Trainees will be expected to be familiar with current pediatric nephrology literature.
5. The trainee should be encouraged to participate in research, and to pursue one or more projects up to and including publication. An understanding of the principles and techniques used in research, including the value of clinical trials and basic biostatistics, should be acquired. Presentation of research and audit results at state and national meetings would be encouraged.
6. The trainee should be able to read renal biopsies in conjunction with the renal histo-pathologist and be encouraged to take independent decisions on clinical scenarios.

7. The trainee should continue to participate in the on-call rota, with appropriate consultant back up.
8. Acquisition of specific skills to enable:
 - Good communication with patients and professional colleagues
 - Accurate informed consent to be obtained
 - Appropriate decisions about terminating the procedure for technical reasons or grounds of safety / comfort to the patient.
9. A clear understanding of the role of multidisciplinary meetings, including:
 - Planning of investigations including the selection of appropriate tests and imaging techniques for a clinical problem
 - Planning and outcomes of treatment
 - Promoting an understanding of relevant renal pathology
10. Procedural competence will need to be reviewed at intervals, and this regular review should also assess the number of cases required in order to ensure competence.
11. The trainee should be aware of local and national guidelines on consent, and be capable of obtaining informed patient consent for practical procedures.

1. Teaching Faculty Details

1. Dr. Manoj G. Matnani

(M.B.B.S, M.D, IPNA Fellow, Fellowship in Pediatric Nephrology, RCPCH – London, UK) Consultant Pediatric Nephrologist

Registration No.88924

2. Dr Shailaja Mane

MBBS, MD Pediatrics,

Professor and Head of Department of Pediatrics

Registration No. 70305

3. Dr. Manoj Patil

Professor

Reg. No 2003020651

4. Dr. Shradha Salunkhe

Professor

Reg. No 2003083059

5. Dr. Balkrushna Garud

Associate Professor

Registration No 2010282647

2. Infrastructure

Machines:/Skill laboratory

- Haemodialysis machines for HD and plasmapheresis
- APD (Automated Peritoneal Dialysis) machines
- Portable USG scanners with Doppler for renal biopsy

Peritoneal Dialysis – Acute PD (in the PICU) and APD (Automated Peritoneal Dialysis) - Continuous Ambulatory Peritoneal Dialysis (CAPD) & CCPD (Continuous Cyclical Peritoneal Dialysis)

Hemodialysis & SLEDD (Sustained Low Efficacy Daily Dialysis) in the Dialysis Unit.

Plasmapheresis

Pediatric Renal Transplantation +ICU Care

All complex investigations and surgeries related to Pediatric Nephro-urology viz – MCU, CT, MRU etc

Pediatric Renal Nutrition Clinic – with dedicated pediatric renal dieticians

3. Fees: 1,00,000/- (Rupees One Lakh Only)