

IPNA FELLOWSHIP REPORT

Name: Dr. Yassir Mahgoub Bakhiet Mohamed

Host Institution and address: Charlotte Maxeke Johannesburg Academic Hospital, 5 Jubilee Road, Parktown 2193, Johannesburg, South Africa.

Country of origin: Sudan

Supervisor's name: Dr. Cecil S. Levy

Supervisor's institution and address: Charlotte Maxeke Johannesburg Academic Hospital, 5 Jubilee Road, Parktown 2193, Johannesburg, South Africa.

Duration of training: 30 months

Start date: 01-07-2014

Stop date: 01-02-2017

Acknowledgement

I would like to start by thanking the IPNA for awarding me the fellowship program and supporting my dream to become a pediatric nephrologist. I am very grateful to my trainer, Dr. CS Levy, for his commitment and devotion towards helping me achieve my goals during my training period. I would also like to express my gratitude to the staff of the pediatric nephrology unit of the Charlotte Maxeke Johannesburg Academic Hospital (CMJAH), South Africa for accommodating and supporting me during the period of my training. I finally would like to thank all the parents and patients cared for by the renal unit for being so supportive.

Background

There is no doubt that chronic kidney disease (CKD) remains a huge problem globally and especially in the third world countries such as Sudan, where there are not enough pediatric nephrologists to cater for children with end stage renal disease (ESRD). Bearing this in mind, my goal was to equip myself in the necessary skills and knowledge that will improve and sustain pediatric nephrology services in my locality.

Home institution

Sudan is the 3rd largest country on African continent. about 1,881,000 m² Km with an estimated population of 33,419,625 millions, of which about 6 millions live in Khartoum. The Sudanese population is very young, 43% of the population below the age of 16 years.

- Noura children's centre for kidney diseases and surgery is first pediatric nephrology unit which offers most of the renal services in the country was established at Soba University Hospital in Dec 2004. *The unit receives patients with renal diseases from all parts of the country. The Noura offer **Pediatric Renal Services:** Acute PD and HD for AKI, regular HD for ESRF, CAPD for ESRD, inpatient care for patients with renal diseases, renal transplantation, outpatient clinic, all these services are provided free*

Host institution

The Division of Pediatric Nephrology of CMJAH provides a comprehensive tertiary and quaternary pediatric nephrology service primarily to children referred from Gauteng and its surrounding provinces. It is one of the largest pediatric nephrology services in the country,

the other being Red Cross Children's Hospital in Cape Town. There is a compliment of skilled nurses, social workers, pediatric nephrologists and other support staff to cater for these children.

The Division offers services such as general nephrology, critical care nephrology, hemodialysis and peritoneal dialysis. The Division also offers a complete transplant service, which has over the past 20 odd years transplanted over 300 patients, and trainees are exposed to a comprehensive range of pediatric nephrology pathology.

Training activities and achievements

My training program started off with learning basic skills such as management of common pediatric renal problems, dialysis techniques and catheter insertion, performing renal biopsies. All these were carried out under supervision. Gradually as my skills improved, I was able to take calls and manage renal emergencies with supervision. Much later into the training, I was actively involved in renal transplant workup and management of renal transplant patients.

During the training, I was also exposed to weekly pediatric nephrology teaching/meetings, difficult case discussions, formal lectures, informal ward rounds and a journal club. I also attended monthly biopsy meetings run by the pathology department of the University of the Witwatersrand. Research is expected to be undertaken by our post graduate fellows.

I was also able to carry out research during the second year of my training.

Achievements:

I was able to achieve the following during the period of training;

1. Skills acquisition in patient management (ward based, outpatients, and maintenance of a renal unit)
2. Practical experience in peritoneal dialysis (acute and chronic), pediatric hemodialysis, renal biopsy, histology, ICU renal care, transplantation and urodynamics
3. Research skills
 - a. Poster presentation at the WCN 2015 in Cape Town
 - b. Achieved an MSc degree.
4. Certificate in Nephrology (Pediatrics) (SMSB) following the exit exams in pediatric nephrology.

Future plan

I intend to fully implement all that I have learned into developing a functional pediatric renal service in Sudan, as well as training other doctors and nurses in the unit to assist in running the renal service.