

Introduction

The goal to set up a SRC supported by ISN has been the opportunity to open initiatives to strengthen a pediatric nephrology service, focusing in very early detection and proper treatment of the nephro-urology issues avoiding CKD.

Methods

1° We created an outpatient clinic Learning center Program supported by nurses, social workers, psychologist and dietitian, who have been supporting the families and their children. 2° We promoted among the different groups in the clinic (pediatricians and nurses from PICU, NICU, infectious disease, Transplant team) the opportunities given for ISN program to get updated in issues related with detection, prevention and treatment innovations for renal diseases. We created strategies for a). Improve AKI treatment b). Set up a database for CAKUT detected in utero and its follow up. c). Evaluation of a cohort of patients with intrauterine growth restriction (IUGR) at 5 and 7 years old in order to detect early hypertension and/or proteinuria. d). Impulse the Continual Medical Education – CME - among the southwest health population. 3° Clinical design of preventive program detect, at the first and second level of health attention, the most common renal alterations. 4°



Image 1. Myelodysplasia multidisciplinary team.

Results

A. NATIONAL COURSES CME made by SRC program FVL Cali and Childrens Hospital Boston.

1° meeting: Prevention of renal disease SRC Program April 2008. Dr. John T. Herrin, Dr. Ricardo Correa-Rotter, Dr. Randall Lou.

2° meeting: SRC program Aki related October 2009.

Michael Somers, Michael Ferguson and George Schwartz.

3° meeting: Heart and bone disease in CKD,

Joined to ACONEPE(Asoc Colombiana de nefrología pediátrica) 2010. Carlos Estrada, Fernando Santos and Nelson Orta.

4° meeting: SRC program joined to colombian society of pediatrics July 2011. Michael Somers, Ghaleb Daouk, John T Herrin, Francisco Flores and George Mazariegos.

5° meeting: SKD in childrens transition through a succesful renal transplant October 2012.

William Harmon, Paul Harden, Francisco Cano.

6° meeting: SRC Program 2013. Michelle Baum, Debora Sherlock, Carlos Estrada.

7° meeting: X Latin American Congress of Pediatric Nephrology, Cartagena 2014.

Dr. Ron Shapiro y Dr Carlos Estrada.

8° meeting: Pediatrics congress in Popayan, Cauca, Colombia 2015

Dra Maria Ferris, Enferm Susana Marcos

9° meeting: National congres of nefrology in Pereira Colombia 2016

Dr Helmunt Rennke

ISN Ambassadors Program

2012 - Helmunt Rennke

2015 - Maria Ferris

B. LOCAL COURSES IN PREVENTION

1° Multidisciplinary managment of childrens with renal disease. May 2009. Directed to nurses, social workers, psychologist and dietitan.

2° Four training courses on RRT. 2009-2011. Directed to PICU nurses.

4° Monthly Education meeting. Directed to patients on RRT.

5° Monthly interdisciplinay evaluation. Directed to patients with myelodysplasia and their families.

C. VISITS TO BOSTON CHILDREN'S HOSPITAL

Short training visit (1 month): One bacteriologist (B and W Hospital), 7 nurses (PICU, Renal Unit CHB).

Visting scholars (2-3 months): Two pediatric intensivist (PICU), two pediatricians (Urology and perinatology service), two urologist, one medical doctor PhD (Pharmacology B and

WH), one pediatric infectologist, and one epidemiologist.

D. VISITS FROM BOSTON CHILDREN'S HOSPITAL

Impulse transition program (2 weeks): Melisa Oliva, pscyologist (2011) .

ISN Ambassadors Program: Helmunt Rennke (2012).

E. RESEARCH ACTIVITIES

1. Relationship of gestational age and birthweight with novel urinary biomarkers of renal fuction measured at 5

2. years of age in childrens of follow program kangaroo mother house alfa in Cali, Colombia.

2. AKI in PICU 's Hospital in southwest, Popayan-Cali.

4. Assement of AKI in PICU using p-RIFLE 2008-2011.

5. Retrospective evaluation of AKI 1996 to 2006 in PICU **Abstract presented at the 2011 Satellite Symposia.**

6. Kidney transplante in childrens with NS-FSGS using plamapheresis. **Abstract presented at the IPTA congress on June 2011.**

7. Pediatric kidney transplante in Cali, Colombia. **Abstract presented at the IPTA congress on June 2011. June**

8. Evaluation of three immunosuppressive therapies and infections in our pediatric renal transplant center. **Abstract presented at the IPTA congress on 2011.**

9. Pediatric transplant center. **Abstract presented at the IPTA congress on June 2011.**

10. Retrospective evaluation of AKI 1996-2002 in NICU.

11. Adverse drug's reaction to nephrotoxic drugs in pediatric non critical inpatients.

12. "Relationship of gestational age and birth-weight with novel urinary biomarkers of renal function measured at 5 and 7 years of age in children on follow up at program Kangaroo Mother House Alfa Cali Colombia"

Abstract presented WCN 2013.

13. Retrospective study to asses the risk of acute kidney insufficiency (AKI) in pediatric patients hospitalized at a four level, in Cali Colombia. **Abstract presented WCN 2013.**

14. Clinical evaluation of a renal replacement therapy program in childrens under 18 years old in Cali Colombia. **Abstract presented WCN 2013.**

15. Lupus Nephritis; IgA nephropathy.

16. Prenatal detection of CAKUT.

17. One year outcome of AKI using p RIFLE criteria in PICU at the Fundacion Valle del Lili 2009-2010.

F. ESTABLISHED PROGRAMS

1. AKI network in PICU.
2. Myelodysplasia program.
3. Transition program for adolescents with kidney transplant.
4. Pediatric kidney transplant program.
5. Monitoring a solitary kidney program
6. Surveillance and follow up of CAKUT detected in utero Cali - Popayan

G. AWARDS AND HONOURS

1. ACONEPE 5th Congress 2012: Second place in Poster Presentation: "Renal Pediatric Transplant in Cali, Colombia". Third place in Poster Presentation: "AKI Prevalence in PICU Fundacion Valle del Lili".
2. Third place in oral presentation: "Evaluation of three immunosuppressive therapies in a pediatric renal transplant center". ALANEPE Latin American Congress of Pediatric Nephrology, September 2014. Acknowledgement to the development of Pediatric Nephrology in Colombia and Latin-America.
3. Second place in Poster Presentation Category at the National Pediatric Rheumatology Congress with the study: "Pediatric Pauciimmune vasculitis: report of three cases".

ACHIEVEMENTS

1. STC PROGRAM 2015
2. REGIONAL TRAINING CENTER PROGRAMS 2016
3. RENAL GENETIC LABORATORY AT BOSTON CH supported by Dr Friederich Hildebrand
4. IPTA Outreach program 2012



Conclusiones

The Sister Renal Center Program, under the orientation of the Boston group allowed us to work on the most important needs of the Pediatric Nephrology area in our region. Based on the retrospective studies we established the most frequent causes of acute and chronic renal disease. It also made possible to design prospective studies on AKI, thinking in improving the renal replacement therapy and also the integral management of patients in PICU.