



**DEPARTMENT OF PEDIATRICS**  
**Division of Pediatric Nephrology**  
P.O. Box 016960 (M-714)  
Miami, Florida 33101

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**Pediatric Nephrology Seminar XXXVII**  
**March 11 - March 14, 2010**  
**The Alexander All Suite Ocean Front Resort**  
**Miami Beach, Florida**

Sponsored by the



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**of MEDICINE**



Presented by The Division of Pediatric Nephrology, Department of Pediatrics

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**THIRTY SEVENTH**  
**PEDIATRIC NEPHROLOGY SEMINAR**



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**March 11 - March 14, 2010**

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The Alexander All Suite Ocean Front Resort  
Miami Beach, FL  
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# P R O G

## THURSDAY MARCH 11, 2010

5:00-7:00 P.M. Registration

## FRIDAY MARCH 12, 2010

7:00 - 8:00 A.M. Registration. Continental Breakfast.

8:00 - 8:10 A.M. Introduction. Welcome Remarks.

**Gaston E. Zilleruelo, M.D.**

*Program Director*

**Steven E. Lipshultz, M.D.**

*Professor and Chairman  
Department of Pediatrics*

### SESSION # 1: THE NEONATE AND THE KIDNEY

Session Moderator: **Robert Mak, M.D., Ph.D.**

8:10 - 8:30 A.M. The Kidney of the Newborn:  
Is It Immature?

**Adrian Spitzer, M.D.**

8:30 - 8:50 A.M. Newer Markers in Obstructive Uropathy

**Robert Mak, M.D., Ph.D.**

8:50 - 9:10 A.M. The Hypertensive Neonate

**Joseph T. Flynn, M.D., M.S.**

9:10 - 9:30 A.M. Acute Kidney Injury in Critically Ill  
Newborns: Evaluation

**David Askenazi, M.D.**

9:30 - 9:50 A.M. Cystic Kidney Diseases in the Newborn

**Lisa M. Guay-Woodford, M.D.**

9:50 - 10:10 A.M. Management of the Oliguric Neonate

**David Askenazi, M.D.**

10:10 - 10:30 A.M. Panel Discussion

10:30 - 11:00 A.M. Break. Visit Exhibits

### SESSION # 2: GENETICS FOR THE CLINICIAN

Session Moderator: **Uri S. Alon, M.D.**

11:00 - 11:20 A.M. Role of Genetic Screening in Renal  
Diseases

**Lisa M. Guay-Woodford, M.D.**

11:20 - 11:40 A.M. Systems Biology of Glomerular Diseases

**Matthias Kretzler, M.D.**

11:40 - 12:00 P.M. New Targeted Therapies in PKD:  
Implications for Pediatric Patients

**Lisa M. Guay-Woodford, M.D.**

12:00 - 12:20 P.M. Genetics of the Calcium Sensing

Receptor and More

**Uri S. Alon M.D.**

12:20 - 12:40 P.M. Kidney Involvement in Genetic Syndromes

**Maria M. Rodriguez, M.D.**

12:40 - 13:00 P.M. Tubular Channelopathies

**Uri S. Alon, M.D.**

13:00 - 13:30 P.M. Panel Discussion

13:30 - 14:30 P.M. Meet the Professor Lunch

### SESSION # 3: WORKSHOP ON RENAL-GU ANOMALIES

Session Moderator: **Carolyn L. Abitbol, M.D.**

15:00 - 17:00 P.M. Antenatal Hydronephrosis:  
When to Intervene?

**Eftichia Kontopoulos, M.D.**

Renal Scintigraphy in the Evaluation of  
the Obstructed Kidney

**George N. Sfakianakis, M.D.**

Newer Imaging Techniques in Obstructive  
Uropathy

**Andrew J. Kirsch**

Proteinuria as a Marker of Severe  
Obstruction

**Carolyn L. Abitbol, M.D.**

A Neonate With Severe UPJO :  
To Operate or Not?

**Andrew J. Kirsch, M.D.**

**Rafael Gosalbez, M.D.**

17:00 - 17:30 P.M. **Special Presentation:**  
Why Do Kidneys Fail?

**H. William Schnaper, M.D.**

17:30 - 19:30 P.M. **WELCOME RECEPTION**

## SATURDAY MARCH 13, 2010

7.00 - 8.00 A.M. Registration. Continental Breakfast.

### SESSION # 4: RENIN ANGIOTENSIN SYSTEM (RAS) AND THE KIDNEY

Session Moderator: **Joseph T. Flynn, M.D., M.S.**

8:00 - 8:20 A.M. Development of RAS in early life  
**Ariel R. Gomez, M.D.**

8:20 - 8:40 A.M. RAS and Salt-sensitive Hypertension  
**Bernardo Rodriguez-Iturbe, M.D.**

8:40 - 9:00 A.M. Role of TRPC6 in the Podocyte  
**Jochen Reiser, M.D., Ph.D.**

9:00 - 9:20 A.M. Pathogenesis of Edema in Nephritic/  
Nephrotic Syndrome  
**Bernardo Rodriguez-Iturbe, M.D.**

9:20 - 9:40 A.M. RAS Blockade in Children  
**Guido Filler, M.D.**

9:40 - 10:00 A.M. Renin/Aldosterone Inhibition in Children  
**Joseph T. Flynn, M.D.**

10:00 - 10:30 A.M. Panel Discussion

10:30 - 11:00 A.M. Break and Visit Exhibits

# GRAM

## SESSION # 5: CHRONIC KIDNEY DISEASE

Session Moderator: Frederick J. Kaskel, M.D., Ph.D.

- 11:00 - 11:20 A.M.** NAPRTCS/CKids Registries:  
What Have We Learned So Far?  
**Frederick J. Kaskel, M.D., Ph.D.**
- 11:20 - 11:40 A.M.** CKD Registries in Latin America  
**Nelson Orta, M.D.**
- 11:40 - 12:00 P.M.** Health Disparities in Pediatric Kidney Disease  
**Marva Moxey-Mims, M.D.**
- 12:00 - 12:20 P.M.** Hypertension in CKD: Are We Doing a Good Job?  
**Mark Mitsnefes, M.D.**
- 12:20 - 12:40 P.M.** Role of rHu-GH in CKD, Dialysis and Transplant  
**Richard N. Fine, M.D.**
- 12:40 - 13:00 P.M.** Challenges in Renal Transplant:  
How Can We Improve Outcomes?  
**Guido Filler, M.D.**
- 13:00 - 13:30 P.M.** Panel Discussion
- 13:30 - 14:30 P.M.** Meet the Professor Lunch

## SESSION # 6: WORKSHOP ON METABOLIC BONE DISEASE

Session Moderator: Michael Freundlich, M.D.

- 15:00 - 17:00 P.M.** iPTH: Which Is the Target?  
**Isidro B. Salusky, M.D.**  
P or FGF23: Which is More Important?  
**Myles Wolf, M.D.**  
VDR Activators and Bone Protection.  
**Michael Freundlich, M.D.**  
Vascular Calcifications in Pediatric CKD  
**Isidro B. Salusky, M.D.**  
Vitamin D Insufficiency in Dialysis  
**W. Seeherunvong, M.D.**  
Metabolic Bone Disease: What's New?  
**Jose Weisinger, M.D.**
- 17:00 - 17:30 P.M.** Special Presentation: Transplantation in Children: Update 2010  
**Richard N. Fine M.D.**

## SUNDAY MARCH 14, 2010

- 7:00 - 8:00 A.M.** Registration. Continental Breakfast.

## SESSION # 7: RESEARCH AND TRAINING INITIATIVES

Session Moderator: William E. Smoyer, M.D.

- 8:00 - 8:20 A.M.** Research Training and NIH Initiatives  
**Marva Moxey-Mims, M.D.**
- 8:20 - 8:40 A.M.** Keys to Career Development:  
Transition from Training to Practice  
**William E. Smoyer, M.D.**
- 8:40 - 9:00 A.M.** Keys to Career Development:  
Coaching and Mentoring Skills  
**John D. Mahan, M.D.**

## SESSION # 8: WORKSHOP ON CLINICO-PATHOLOGIC CORRELATIONS

Session Moderator: Jayanthi Chandar, M.D.

- 9:00 - 9:30 A.M.** FSGS: A Pathologist Perspective  
**Helmut G. Rennke, M.D.**
- 9:30 - 10:30 A.M.** Biopsy Discussions:  
**Rafael Valenzuela, M.D.**  
**Jayanthi Chandar, M.D.**  
**Maria M. Rodriguez, M.D.**  
**Helmut G. Rennke, M.D.**
- 10:30 - 11:00 A.M.** Break. Visit Exhibit.

## SESSION # 9: THE KIDNEY IN SYSTEMIC DISEASES

Session Moderator: Wacharee Seeherunvong, M.D.

- 11:00 - 11:20 A.M.** Obesity and the Kidney  
**Robert Mak, M.D., Ph.D.**
- 11:20 - 11:40 A.M.** Diabetic Nephropathy: When to Diagnose and How to Intervene  
**Michael Mauer, M.D.**
- 11:40 - 12:00 A.M.** HIVAN: An Update  
**Patricio E. Ray, M.D.**
- 12:00 - 12:20 P.M.** Systemic Lupus Erythematosus:  
B Cell Depletion?  
**Carolyn L. Abitbol, M.D.**
- 12:20 - 12:40 P.M.** Role of Lipids in Kidney Disease  
**Mark Mitsnefes, M.D.**
- 12:40 - 13:00 P.M.** KDIGO Guidelines on Hepatitis C in CKD  
**David Roth, M.D.**
- 13:00 - 13:30 P.M.** Panel Discussion

ADJOURN

# GUEST FACULTY

## Uri S. Alon, M.D.

Professor of Pediatrics and Director of Research and Education, Section of Nephrology, Children's Mercy Hospital and Clinics, University of Missouri, Kansas City, MO

## David Askenazi, M.D., MSPH

Assistant Professor of Pediatrics University of Alabama at Birmingham Birmingham, Alabama

## Guido Filler, M.D., Ph.D.

Professor of Pediatrics, Chair Department of Pediatrics, Children's Hospital, London Health Science Centre University of Western Ontario, Canada

## Richard N. Fine, M.D.

Professor of Pediatrics and Dean School of Medicine, State University of NY at Stonybrook, NY

## Joseph T. Flynn, M.D., MS.

Professor of Pediatrics, Division of Nephrology, Seattle Children's Hospital University of Washington, Seattle, WA

## R. Ariel Gomez, M.D.

Harrison Distinguished Professor of Pediatrics and Biology, University of Virginia

## Lisa M. Guay-Woodford, M.D.

Professor of Medicine and Genetics, Anderson Family Endowed Chair in Medical Education, Research and Patient Care, Director of the Center for Clinical and Translational Sciences, University of Alabama at Birmingham

## Frederick J. Kaskel, M.D., Ph.D.

Professor of Pediatrics and Director of Pediatric Nephrology, Department of Pediatrics, Children's Hospital at Montefiore, NY

## Andrew Kirsch, M.D.

Clinical Professor of Urology, Georgia Urology, PA, Children's Healthcare of Atlanta, Emory University School of Medicine, GA

## Matthias Kretzler, M.D.

Professor Nephrology/Internal Medicine Center for Computational Medicine and Bioinformatics, University of Michigan Ann Arbor, MI

## John D. Mahan, M.D.

Professor Department of Pediatrics Program Director, Pediatric Residency Program, Program Director, Pediatric Nephrology Fellowship Program, Vice Chair for Education, The Ohio State University COM

## Robert Mak, M.D., Ph.D.

Professor and Chief, Director of Fellowship Program, Division of Pediatric Nephrology, University of California, San Diego

## Michael Mauer, M.D.

Professor of Pediatrics and Medicine Director, Pediatric Solid Organ, Transplantation, University of Minnesota, MN

## Mark Mitsnefes, M.D., MS

Associate Professor of Pediatrics, Division of Nephrology and Hypertension Cincinnati Children's Hospital Medical Center, Cincinnati, OH

## Marva Moxey-Mims, M.D.

Deputy Director of Clinical Research Director Pediatric Nephrology and Renal Centers Programs NIH, NIDDK, DKUH, Bethesda, MD

## Nelson Orta, M.D.

Service of Pediatric Nephrology, Hospital de Niños de Valencia, Professor of Pediatrics and Pediatric Nephrology Universidad de Carabobo, Valencia, Venezuela, President of Latin American Association of Pediatric Nephrology (ALANEPE)

## Patricio E. Ray

Professor of Pediatrics, Department of Pediatrics, George Washington University; Children's Research Institute, Washington D.C.

## Helmut G. Rennke, M.D.

Director of Renal Pathology Laboratory at Brigham and Women's Hospital and Professor of Pathology at Harvard Medical School, Boston, MA

## Bernardo Rodriguez-Iturbe, M.D.

Profesor de Medicina y Jefe del Servicio de Nefrología, Hospital Universitario de Maracaibo y Universidad del Zulia, Director, Instituto Venezolano Investigaciones Científicas (IVIC)-Zulia, Maracaibo, Venezuela

## Isidro B. Salusky, M.D.

Professor of Pediatrics; Associate Dean of Clinical Research; Director Pediatric Dialysis Program; Director, General Clinical Research Center, David Geffen School of Medicine at UCLA, Los Angeles, CA. Secretary General of the International Pediatric Nephrology Association (IPNA)

## H. William Schnaper, M.D.

Professor of Pediatrics; Vice Chairman, Children's Memorial Medical Center, Feinberg School of Medicine, Northwestern University, Chicago, IL Secretary-Treasurer, ASPN

## William E. Smoyer, M.D.

Vice President, Clinical Translational Research, Director, Center for Clinical and Translational Research, The Research Institute at Nationwide Children's Hospital, The Ohio State University, Columbus, OH

## Adrian Spitzer, M.D.

Clinical Professor of Pediatrics, Albert Einstein College of Medicine, Bronx, NY

# ENDORSEMENTS



**Holtz Children's Hospital**

UM/JACKSON MEMORIAL MEDICAL CENTER



ASOCIACIÓN LATINOAMERICANA DE NEFROLOGÍA PEDIÁTRICA

# LOCAL FACULTY

## Carolyn L. Abitbol, M.D.

Professor of Pediatrics, Medical Director, Pediatric Dialysis Unit, Division of Pediatric Nephrology, Department of Pediatrics, University of Miami, Miller School of Medicine

## Jayanthi Chandar, M.D.

Associate Professor of Clinical Pediatrics, Division of Pediatric Nephrology, Department of Pediatrics, University of Miami, Miller School of Medicine

## Michael Freundlich, M.D.

Professor of Clinical Pediatrics, Division of Pediatric Nephrology Department of Pediatrics, Consultant in Pediatric Nephrology, Pediatric Specialty Centers, Miami-Dade and Broward Counties, University of Miami, Miller School of Medicine

## Rafael Gosalbez, M.D.

Associate Professor of Urology, Department of Urology, Director Division of Pediatric Urology, Miami Children's Hospital

## Eftichia Kontopoulos, M.D.

Associate Professor of Obstetrics and Gynecology, Division of Maternal - Fetal Medicine Director of Obstetrical Ultrasound University of Miami, Miller School of Medicine, Miami, FL

## Jochen Reiser, M.D., Ph.D.

Chief Division of Nephrology and Hypertension, Director, Miami Kidney Drug Discovery Center, Professor of Medicine, Leonard Miller School of Medicine, University of Miami, Miller School of Medicine

## Maria M. Rodriguez, M.D.

Professor of Clinical Pathology and Pediatrics Director of Pediatric Pathology University of Miami, Miller School of Medicine Miami, FL

## David Roth, M.D.

Professor of Medicine, Division of Nephrology, University of Miami, Miller School of Medicine

## Wacharee Seeherunvong, M.D.

Assistant Professor of Clinical Pediatrics, Division of Pediatric Nephrology, Department of Pediatrics, University of Miami, Miller School of Medicine

## George N. Sfakianakis, M.D.

Professor of Radiology and Pediatrics, Department of Radiology and Pediatrics, Director Division of Nuclear Medicine, Department of Radiology University of Miami, Miller School of Medicine

## Rafael Valenzuela, M.D., Ph.D.

Professor of Pathology, Department of Pathology; Chief, Pathology and Laboratory Medicine Service, Veterans Affairs Medical Center, Nephropathologist VA, JMH/UM

## Jose Weisinger, M.D.

Profesor de Medicina, Universidad Central de Venezuela, Adult Nephrologist, South Miami, FL

## Myles Wolf, M.D.

Associate Professor of Medicine Department of Internal Medicine University of Miami, Miller School of Medicine

## Gaston E. Zilleruelo, M.D.

Professor of Pediatrics, Director, Division of Pediatric Nephrology, Department of Pediatrics; Program Director, Pediatric Nephrology Seminars, University of Miami, Miller School of Medicine

# ACKNOWLEDGEMENTS

**ASTELLAS**

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# HOTEL INFORMATION



**ALEXANDER ALL SUITE OCEAN FRONT RESORT**  
**5225 Collins Avenue**  
**Miami Beach, FL 33140**  
**Tel: 1-800-327-6121 or (305)865-6500**  
**Email: reservations@alexanderhotel.com**

Flanked by the roaring Atlantic Ocean and rippling Intracoastal Waterway, the Alexander All Suite Ocean Front Resort is located in the heart of Miami Beach. Attendees will enjoy late-winter in South Florida which is unlike that in any other part of the U.S. thanks to a subtropical climate and strong Caribbean/Latin American influences. It's just the right place for recharging your personal and professional perspectives in the company of friends and colleagues. You won't need your coat, boots, or umbrella, but a light jacket may feel good in Miami's moonlit evening breezes and super-air conditioned restaurants.

Room Rates: \$279 + \$11.00 Resort Fee and 13% tax-Single/Double Occupancy-European Plan (meals not included) Room rates apply three day prior to, during and three days after the Seminar. Reservations must be received by March 10, 2010, to take advantage of the above rate. Please use attendee code 3399 when making your reservations. After this date, reservation requests will be considered on a space available basis.

## SEMINAR REGISTRATION FORM

**Tuition:** US \$595.00 Physician in Practice  
 US \$275.00 \* Physician in Training, Nurses, Allied Health  
 Care Professionals

\*Physicians in Training will need letter of verification from Chief of service.  
 Tuition includes admission to scientific sessions, a course syllabus and continental breakfasts. After February 10, 2010 and (On-Site) \$650.00 for physician in practice and \$300 all others. Refunds will be given only if written notice of cancellation is received prior to February 24, 2010. A \$75.00 fee is charged for all refunds.

**Services for the Disabled:**

If special arrangements are required for an individual with a disability to attend this conference, please contact: Gaston Zilleruelo, M.D. (305) 585-6726 and the Alexander All Suite Ocean Front Resort 1-800-327-6121 or (305) 865-6500 no later than March 1, 2010.

**For Additional Information, contact:**

**Division of Continuing Medical Education**  
**University of Miami Miller School of Medicine**  
 P.O. Box 016960 (D23-3), Miami, Florida 33101-6960  
 Phone: 305-243-6716 • Fax: 305-243-5613  
 Email: umcme@med.miami.edu

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[www.cme.med.miami.edu](http://www.cme.med.miami.edu) and click on Register for Conferences  
 To register by fax: 305-243-5613  
 Website: <http://www.pediatricnephrology.med.miami.edu/Seminar>  
 Email: gzilleruelo@med.miami.edu

**WHAT IS YOUR POSITION:**  Physician  Nurse  Children's Medical Services Nurse  Other (specify): \_\_\_\_\_

Name: (Last, First, Middle): \_\_\_\_\_  Grantee  Seminar Faculty  Registrant

Affiliation/Institution: \_\_\_\_\_ Specialty: \_\_\_\_\_ Degree: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ City, State: \_\_\_\_\_ Zip: \_\_\_\_\_

Country: \_\_\_\_\_ Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Email (Required): \_\_\_\_\_ Last 4 digits of Social Security Number: \_\_\_\_\_

**TYPE OF PRACTICE:**  Private  Academic  Hospital  Government  Other (specify): \_\_\_\_\_

**IN TRAINING:**  Medical Student  Resident  Fellow  Other (specify): \_\_\_\_\_

How did you hear of this program?  Brochure  Journal  Ad  Colleague  Email  Website

Other (Specify): \_\_\_\_\_

Self Description (for statistical purposes only): Birthplace: \_\_\_\_\_ Gender:  Male  Female

**ETHNICITY:**  African  African American  Arabic  Asian  Caucasian American  European  Hispanic  
 Indian  Latin (American)  Middle Eastern  Native American  Other (specify): \_\_\_\_\_

**PAYMENT:**

Check enclosed, payable to: UM Pediatric Nephrology Seminars

Charge registration fee \$ \_\_\_\_\_, to my  VISA  Master Card

Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Name on Card \_\_\_\_\_ Authorized Signature: \_\_\_\_\_

Since meeting room temperature and personal comfort zones may vary a light jacket or sweater is suggested.

# PEDIATRIC NEPHROLOGY SEMINAR XXXVII

## MARCH 11 - MARCH 14, 2010

Founded by: José Strauss, M.D.

Program Director: Gastón Zilleruelo, M.D.

Organizing Committee: Gastón Zilleruelo, M.D., Carolyn Abitbol, M.D., Michael Freundlich, M.D., Jayanthi Chandar, M.D., Steven Lipshultz, M.D., Maritza Luna-Hair, MHSA, Linda Davidson, MHA

### ACCREDITATION

The University of Miami Leonard M. Miller School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

### CREDIT DESIGNATION

The University of Miami Leonard M. Miller School of Medicine designates this educational activity for a maximum of 19.75 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

### COURSE DESCRIPTION

Pediatric Nephrology Seminar XXXVII is an international forum for pediatric and adult nephrologists, pediatricians, internists, general practitioners, renal pathologists, neonatologists, pediatric urologists, transplant surgeons, nurses, nutritionists and allied health professionals to review selected relevant subjects and share new materials. The content is basic; the approach is clinical. Conceptual and practical problems are featured in a balance of formal presentations followed by informal discussions. All registrants have opportunities to be involved in a dynamic exchange of information, experience, and insight. Selection of topics, faculty and format are based on suggestions from past Seminar participants and current questions. Evolving concepts about the diagnosis and management of kidney disorders are to be presented and discussed with a focus on clinical research, clinico-pathologic correlations, primary glomerulopathies and vasculitis, idiopathic nephrotic syndrome, acute kidney injury, vesico-ureteral reflux, hypertension, chronic kidney disease, dialysis and transplantation. There will be two afternoon workshops with case presentations and 2 Special Lectures covering state-of-the-art topics. In addition, 2 Meet the Professor Luncheons will facilitate the exchanges among the Faculty and Trainees.

### OBJECTIVES

Upon completion of the course, participants will be able to:

- Identify recent discoveries in basic, translational and clinical research in selected areas of pediatric nephrology
- Select best modality for early diagnosis and appropriate management of neonates with acute kidney injury
- Identify which may occur as a result of disease progression in infants with obstructive uropathy
- Assess diagnostic tools in infants with inherited kidney disease
- More effectively manage children with hypertension
- Better manage children with chronic kidney disease
- Identify and manage children with metabolic bone disease
- More effectively manage children with kidney transplant and its complications
- Explain the process of how to apply for research funds
- Assess the information obtained from kidney biopsies
- Identify the kidney involvement in systemic conditions

### FACULTY DISCLOSURES AND CONFLICTS OF INTEREST

All conflicts of interest of any individual(s) in a position to control the content of this CME activity will be identified and resolved prior to this educational activity being provided. Disclosure about provider and faculty relationships, or the lack thereof, will be provided to learners.

### GRANTS AVAILABLE

#### Attention: Medical Students/Physicians in Training/Young Faculty

Grants are available for Medical Students/Trainees/Young Faculty. To apply download the grant application from our website:

<http://www.pediatricnephrology.med.miami.edu/seminar>

and submit completed application form to:

Gaston Zilleruelo, M.D., Program Director, via fax: (305)585-7025

Email:gzilleruelo@med.miami.edu

APPLICATIONS MUST BE RECEIVED BY DECEMBER 31, 2009