46th Miami Pediatric Nephrology Seminar
MARCH 8 - 10, 2019
Royal Palm South Beach Miami
Miami Beach, Florida 33139

For More Information call 305-585-6726
VISIT US AT www.pediatrics.med.miami.edu/nephrology/seminar

Presented by the Division of Pediatric Nephrology, Department of Pediatrics
Thursday, March 7, 2019
6:00-8:00 p.m.  Registration

Friday, March 8, 2019
7:00-8:00 a.m.  Registration. Continental Breakfast
8:00-8:10 a.m.  Welcome and Opening Remarks:
Gastón E. Zilleruelo, M.D. Program Director
Judy Schaechter, M.D., MBA, Professor and
Chair Department of Pediatrics

SESSION 1:
GENETICS/DEVELOPMENTAL AND RARE DISORDERS
Moderators: Friedhelm Hildebrandt, M.D., Craig B. Langman, M.D.
8:10-8:30 a.m.  What’s new in ARPKD/ADPKD: Genetic Advances
Friedhelm Hildebrandt, M.D.
8:30-8:50 a.m.  How to Assess Nephron Endowment in Infants
Carolyn L. Abitbol, M.D.
8:50-9:10 a.m.  Oxalosis: A Preventive Approach
Craig B. Langman, M.D.
9:10-9:30 a.m.  Congenital Nephrotic Syndrome: Diagnosis
and Management
Marissa DeFreitas, M.D.
9:30-9:50 a.m.  New Genetic Developments in Steroid Sensitive
Nephrotic Syndrome
Matthew G. Sampson, M.D.
9:50-10:10 a.m.  Panel Discussion
10:10-10:30 a.m.  Break & Visit Exhibits

SESSION 2:
NEW FRONTIERS IN PEDIATRIC NEPHROLOGY
Moderators: Guido Filler, M.D., Ph.D., Patrick D. Brophy, M.D.
10:30-10:50 a.m.  Clinical Nephro-Pharmacology in Children with
Kidney Diseases: What should we know?
Guido Filler, M.D., Ph.D.
10:50-11:10 a.m.  Podocytopathies: What is new on the horizon?
Laura Barisoni, M.D.
11:10-11:30 a.m.  RAAS and Progressive CKD
Leon Ferder, M.D., Ph.D.
11:30-11:50 a.m.  Neonatal Nephrology: New Developments
Patrick D. Brophy, M.D.
11:50 -12:10 p.m.  Role of Klotho in Kidney Diseases: An Overview
Michael Freundlich, M.D.
12:10-12:30 p.m.  Panel Discussion

LUNCH SESSION:
12:30-1:30 p.m.  Atypical HUS: Early diagnosis and management
Craig B. Langman, M.D.

SESSION 3:
PEDIATRIC NEPHROLOGY FOR THE PRACTITIONER
Moderators: William E. Smoyer, M.D., Carolyn L. Abitbol, M.D.
1:30-1:50 p.m.  How to best assess GFR in children?
Susan L. Furth, M.D., Ph.D.
1:50-2:10 p.m.  Common Electrolyte Abnormalities in
Hospitalized Children: Back to Basics
Chryso Katsoufis, M.D.
2:10-2:30 p.m.  Proteinuria Assessment: Tubular vs Glomerular
Carolyn L. Abitbol, M.D.
2:30-2:50 p.m.  Contemporary Imaging Techniques of the
Urinary Tract
Juan C. Infante, M.D.

2:50-3:10 p.m.  Biomarkers Use in Obstructive Uropathies
Brian Becknell, M.D., Ph.D.
3:10-3:30 p.m.  Urology Challenges in Infants Born with CAKUT
Miguel Castellanos, M.D.
3:30-3:50 p.m.  Panel Discussion
3:50-4:00 p.m.  Break & Visit Exhibits

SESSION 4:
CLINICO-PATHOLOGIC CORRELATIONS
Moderators: David B. Thomas, M.D.,
Wacharee Seeherunvong, M.D.
4:00-5:30 p.m.  Case Discussions
5:30-6:00 p.m.  Special Presentation: The Dark Side of Dialysis
Christopher McIntyre, M.D., Ph.D.
6:00-7:00 p.m.  WELCOME RECEPTION

Saturday, March 9, 2019
7:00-8:00 a.m.  Registration. Continental Breakfast

SESSION 5:
RECENT ADVANCES IN GLOMERULAR DISORDERS
AND CKD
Moderators: Julie R. Ingelfinger, M.D.,
Alessia Fornoni, M.D., Ph.D.
8:00-8:20 a.m.  Biomarkers in Pediatric Glomerulonephritis and
Nephrotic Syndrome
William E. Smoyer, M.D.
8:20-8:40 a.m.  New Therapies for Proteinuric Kidney Disorders
Frederick J. Kaskel, M.D., Ph.D.
8:40-9:00 a.m.  Management of Resistant Nephrotic Syndrome
in Children
Julie R. Ingelfinger, M.D.
9:00-9:20 a.m.  Role of Free Radicals and other Mechanisms
of Progressive CKD
H. William Schnaper, M.D.
9:20-9:40 a.m.  Can we predict progression of CKD in children?
Susan. L Furth, M.D., Ph.D.
9:40-10:00 a.m.  Panel Discussion
10:00-10:15 a.m.  Break & Visit Exhibits
10:15-10:30 a.m.  The Jose Strauss Visiting Professor Award

SESSION 6:
NEW DEVELOPMENTS IN PEDIATRIC HYPERTENSION
Moderators: Joseph T. Flynn, M.D., MS,
Susan L. Furth, M.D., Ph.D.
10:30-10:50 a.m.  ABPM in Specific Patient Populations: Indications
and Analysis
Mark M. Mitsnefes, M.D., MS.
10:50-11:10 a.m.  Role of Pulse Wave Velocity for the Assessment of
Vascular Stiffness
Susan L. Furth, M.D., Ph.D.
11:10-11:30 a.m.  What is the Impact of the New HTN Guidelines?
Joseph T. Flynn, M.D., MS.
11:30-11:50 a.m.  Refractory Malignant HTN: Therapeutic Options
Wacharee Seeherunvong, M.D.
11:50-12:10 p.m.  New Drugs for the Management of HTN
Guido Filler, M.D., Ph.D.
12:10-12:30 p.m.  Panel Discussion

LUNCH SESSION:
12:30-1:30 p.m.  Meet the Professors
SESSION 7: BONE DISEASE, FGF23 AND THE KIDNEY  
**Moderators:** Uri S. Alon, M.D., Michael Freundlich, M.D.  
1:30-1:50 p.m.  
FGF23, Sodium Balance and Cardiac Remodeling  
Michael Freundlich, M.D.  
1:50-2:10 p.m.  
FGF23 and Klotho in the Bone of CKD  
Katherine Wesseling-Perry, M.D.  
2:10-2:30 p.m.  
Update in Hypophosphatemic Rickets  
Uri S. Alon, M.D.  
2:30-2:50 p.m.  
Use of Cinacalcet in Refractory Hyperparathyroidism  
Carolyn L. Abitbol, M.D.  
2:50-3:10 p.m.  
Panel Discussion  
3:10-3:30 p.m.  
Break & Visit Exhibits

SESSION 8 WORKSHOP ON GROWTH AND NUTRITION IN CKD  
**Moderators:** John D. Mahan, M.D., Carolyn L. Abitbol, M.D.  
3:30-3:50 p.m.  
Growth in Infants and Young Children with CKD: Are we making progress?  
John D. Mahan, M.D.  
3:50-4:10 p.m.  
The Role of Obesity and CKD  
Melvin Bonilla-Felix, M.D.  
4:10-4:30 p.m.  
Ideal Caloric/Protein Intake in CKD  
John D. Mahan, M.D.  
4:30-4:50 p.m.  
The Role of Serum Phosphorus Control in Dialysis  
Katherine Wesseling-Perry, M.D.  
4:50-5:00 p.m.  
Break & Visit Exhibits  
5:00-6:00 p.m.  
Case Studies and Discussion  
6:00-6:30 p.m.  
Growth and Nutrition Medical Knowledge Competency Assessment

Sunday, March 10, 2019  
7:00-8:00 a.m.  
Registration. Continental Breakfast

SESSION 9: RESEARCH AND TRAINING INITIATIVES  
**Moderators:** John D. Mahan, M.D., F. Bruder Stapleton, M.D.  
8:00-8:20 a.m.  
Coaching and Mentoring: Importance in Training Programs  
John D. Mahan, M.D.  
8:20-8:40 a.m.  
How to Attract New Applicants to Pediatric Nephrology?  
F. Bruder Stapleton, M.D.  
8:40-9:00 a.m.  
Needs Assessment for Pediatric Nephrology Work Force in USA  
John D. Mahan, M.D.

SESSION 10: TRANSPLANT CHALLENGES  
**Moderators:** Vikas Dharnidharka, M.D., MPH, Jayanthi Chandar, M.D.  
9:00-9:20 a.m.  
Induction Therapy in Pediatric Kidney Transplantation  
Jayanthi Chandar, M.D.  
9:20-9:40 a.m.  
Balancing the Act: Minimizing Post-Transplant Viral Infections and Acute Rejection in Children  
Vikas Dharnidharka, M.D., MPH.  
9:40-10:00 a.m.  
Pharmacokinetics of Maintenance Immunosuppressive Drugs after Transplantation  
Guido Filler, M.D., Ph.D.

10:00-10:20 a.m.  
Preparing pediatric nephrology patients to be young adults  
F. Bruder Stapleton, M.D.  
10:20-10:40 a.m.  
Pediatric En bloc Kidney Transplant: The Miami Experience  
George Burke III, M.D.  
10:40-11:00 a.m.  
Panel Discussion  
11:00-11:10 a.m.  
Break & Visit Exhibits

SESSION 11: HEROES IN PEDIATRIC NEPHROLOGY  
**Moderators:** Gastón E. Zilleruelo, M.D., Carolyn L. Abitbol, M.D.  
11:10-11:30 a.m.  
Disaster Management: Lessons Learned from Hurricane Maria  
Melvin Bonilla-Felix, M.D.  
11:30-12:00 a.m.  
Awards to Patients and Faculty  
12:00 Noon  
ADJOURN

SESSION 12: WORKSHOP ON PEDIATRIC CRITICAL CARE NEPHROLOGY  
Conducted at Holtz Children’s Hospital  
SIXTH ANNUAL PEDIATRIC CRITICAL CARE NEPHROLOGY WORKSHOP MARCH 10, 2019 | 1:00 - 5:00 p.m. | Holtz Children’s Hospital/Jackson Memorial Health System

**PROGRAM:**  
1:00-1:30 p.m.  
Arrive and Lunch  
Introduction & Program Management  
1:30-2:30 p.m.  
Challenges & Strategies  
2:30-4:30 p.m.  
Workshop Stations  
4:30-5:00 p.m.  
Break/Snacks  
Certificates and Farewell  

**Workshop Program:**  
Introduction and Workshop Organization: 10 minutes  
Carolyn L. Abitbol, M.D.  
Developing a Program in Pediatric Critical Care: 20 minutes  
Shereese Bennett, R.N., BSN  
Nurse Manager  

**CHALLENGES & STRATEGIES:** 30 minutes each  
- Continuous Renal Replacement Therapies in Pediatric Critical Care  
  David Askenazi, M.D., MSPH  
- Adapted Vascular Access for Acute Dialysis in Small Patients  
  Michael Nares, M.D.  

**WORKSHOP STATIONS:** 30 minutes each  
- The Prisma Machine: Versatility  
  Kelli Walker, ARNP, MSN  
- CRRT: Blood Prime; Tandem ECMO & Transfers  
  Wacharee Seeherunvong, M.D.  
- Therapeutic Plasma Exchange: Indications and applications  
  Marissa DeFreitas, M.D.  
- The Aquadex: Aquapheresis, SCUF and Infant CRRT  
  Chryso Katsoufis, M.D.  

**Final Assessments & Certificates**  
Carolyn L. Abitbol, M.D and Carlos Cuervo, M.D.
NEW ADVANCES AND OLD CONFLICTS

PEDiatric NEPHroLOGY SEMINAR 2019:
EDUCATIONAL SUPPORT

Hospital, University of Missouri, Kansas City, MO

Professor of Pediatrics and Director of Research and Division of Pediatric Nephrology
Children's Mercy Professor of Pediatrics and Director of Research and Division of Pediatric Nephrology
Voluntary Assistant Professor of Pediatrics
Carlos Cuervo, M.D.
Holtz Children's Hospital
Pediatric Urology Consultant
Medical Director Pediatric Kidney Transplant
Jayanthi Chandar, M.D.
Division of Transplant Surgery, MTI
Professor of Surgery
William H. Ellinger Professor and Chair of the Department of Pediatrics at the University of Rochester, NY, President ASPN
Vikas Dharnidharka, M.D., MPH
Professor of Pediatrics, University of Washington, Director, Division of Pediatric Nephrology, Hypertension and Pheresis, Saint Louis, WA
Guido Filler, M.D., PhD.
Professor of Pediatrics, Department of Pediatrics. Children’s Hospital, London Health Science Centre University of Western Ontario, Canada

LOCAL FACULTY

Carolyn L. Abitbol, M.D.
Professor of Pediatrics
Division of Pediatric Nephrology Fellowship Program Director
Medical Director, Pediatric Dialysis Unit Holtz Children's Hospital Associate Chair Pediatric Nephrology Seminar
Laura Barisoni, M.D.
Voluntary Professor of Pathology
University of Miami, Miller School of Medicine Professor of Pathology and Medicine Duke University, Durham, NC
George Burke III, M.D.
Professor of Surgery
Division of Transplant Surgery, MTI
Jayanthi Chandra, M.D.
Associate Professor of Clinical Pediatrics
Division of Pediatric Nephrology
Medical Director Pediatric Kidney Transplant
Miguel Castellanos, M.D.
Pediatric Urology Consultant Holtz Children’s Hospital
Carlos Cuervo, M.D.
Voluntary Assistant Professor of Pediatrics Division of Pediatric Nephrology

Joseph T. Flynn, M.D., MS
Dr. Robert O. Hickman Endowed Chair in Pediatric Nephrology, Professor of Pediatrics, University of Washington, Chief, Division of Nephrology Seattle Children's Hospital, Seattle, WA
Susan L. Furth, M.D., PhD
Professor of Pediatrics Perelman School of Medicine, University of Pennsylvania, Chief, Division of Pediatric Nephrology, Children's Hospital of Philadelphia
Friedhelm Hildebrandt, M.D.
Chief Division of Nephrology, Boston Children's Hospital, Professor of Pediatrics, Harvard Medical School, Boston, MA
Julie R. Ingelfinger, M.D.
Professor of Pediatrics Harvard Medical School, Senior Consultant in Pediatric Nephrology, Massachusetts General Hospital, Boston, MA
Frederick J. Kaskel M.D., PhD.
Director, Life Course Research Program Professor & Vice-Chair of Pediatrics, Children's Hospital at Montefiore Albert Einstein College of Medicine, NY
Craig B. Langman, M.D.
The Isaac A. Abt MD Professor of Kidney Diseases, Feinberg School of Medicine, Northwestern University, Head Kidney Diseases, Lurie Children's Hospital of Chicago, Chicago, IL
John D. Mahan, M.D.
Professor of Pediatrics Ohio State University, Program Director Pediatric Residency and Pediatric Nephrology Fellowship Programs, Nationwide Children’s Hospital, Columbus, OH

GUEST FACULTY

Marissa DeFreitas, M.D.
Assistant Professor of Clinical Pediatrics
Division of Pediatric Nephrology
Michael Freundlich, M.D.
Professor of Clinical Pediatrics
Division of Pediatric Nephrology Associate Chair Pediatric Nephrology Seminar
Leon Fauder, M.D.
Voluntary Associate Professor of Pediatrics Division of Pediatric Nephrology
Alessia Fornoni, M.D., Ph.D.
Professor of Medicine, Director of Nephrology and Hypertension and Chair, Peggy and Harold Katz Family Drug Discovery Center University of Miami Miller School of Medicine
Juan C. Infante, M.D.
Assistant Professor of Radiology
Department of Radiology
Chryso Katsoufis, M.D.
Assistant Professor of Clinical Pediatrics
Division of Pediatric Nephrology Associate Director Pediatric Dialysis Unit Holtz Children’s Hospital

Christopher McIntyre, M.D., PhD.
Professor of Medicine, Medical Biophysics and Pediatrics and Robert Lindsay Chair of Dialysis Research and Innovation at Western University, Director of the Lilibeth Caberto Kidney Clinical Research Unit at London Health Science Center, Ontario, Canada
Mark M. Mitsnief, M.D., MS.
Professor of Pediatrics, Division of Nephrology and Hypertension, Program Director Clinical Translational Research Center, Cincinnati Children's Hospital, OH
Matthew G. Sampson, M.D., MSCE
Associate Professor of Pediatrics, University of Michigan, Ann Arbor, MI
William E. Smoyer, M.D.
C. Robert Kidd Chair Vice President, Clinical and Translational Research, Director Center for Clinical and Translational Research. The Research Institute at Nationwide Children's Hospital, Columbus, OH
H. William Schnaper, M.D.
Professor of Pediatrics; Vice Chairman, Children’s Memorial Medical Center, Feinberg School of Medicine, Northwestern University, Chicago, IL
Katherine Wessel-Perry, M.D.
Associate Professor of Pediatrics, Division of Pediatric Nephrology, David Geffen School of Medicine at UCLA Los Angeles, CA
F. Bruder Stapleton, M.D.
Professor of Pediatrics, Senior Vice President and Chief Academic Officer; Chair, University of Washington, Seattle Children's Hospital, Seattle, WA

EDUCATIONAL SUPPORT

American Society of Pediatric Nephrology (ASPN)
International Pediatric Nephrology Association (IPNA)
With an ideal South Beach locale, just north of world famous Ocean Drive at 15th Street, Royal Palm South Beach Miami is an oceanfront resort situated within the coveted and culturally rich area of South Beach, Miami.

Royal Palm South Beach Miami pays homage to the original Royal Palm Hotel’s rich history, keeping intact many signature elements of the original architect’s design. The compass rose on the terrazzo lobby floor, original green glass reception desk and porthole windows in the lobby lounge have all been preserved and restored.

Our resort provides guests with a location offering direct beach and Miami boardwalk access and is immersed in luxury retail on Collins Ave., and only blocks from Lincoln Rd. and Espanola Way, offering endless entertainment and dining options.

**ROOM RATES:** US $289.00 + US $20.00 Resort Fee and 14% tax (meals not included).

Room rates apply three day prior to, during and three days after the Seminar. Reservations must be received by February 17, 2019 to take advantage of the above rate. To book your stay, please visit the Seminar’s webpage http://pediatrics.med.miami.edu/nephrology/seminar and click on the hotel link provided.

*After this date, reservation requests will be considered on a space available basis.*

**Advanced Registration Fee:**
- Pediatric Nephrology Seminar ONLY US $400.00
- CRRT Workshop on Sunday afternoon ONLY US $50.00
- Physicians in Training (except Grantees), Nurses and Allied Health Professionals* US $295.00

* Physicians in Training will need letter of verification from Chief of service.
* Tuition includes admission to scientific sessions, a course flash drive and continental breakfasts.
* After February 17, 2019 and (On-Site) US $475.00 for physician in practice and US $530.00 for others.
* ONLY PAYMENTS BY CREDIT CARD CAN BE ACCEPTED FOR ON-SITE REGISTRATION.

**Services for the Disabled:**
If special arrangements are required for an individual with a disability to attend this conference, please contact: Melissa Gonzalez, (305) 585-6726 and the Royal Palm South Beach Miami 866-236-2427 or (305) 604-5700 no later than February 17, 2019.

**For Additional Information, contact:**
Department of Pediatrics
Division of Pediatric Nephrology
P.O. Box 016960 (M-714)
Miami, FL 33101
Tel: (305) 585-6726
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To register online, visit http://pediatrics.med.miami.edu/nephrology/seminar select conference you are attending and click register and pay.

**Registration Cancellation Policy**
Refunds will be made only if written notice of cancellation is received prior to February 17, 2019. A US $75.00 fee is charged to all refunds. After this date, no refunds will be made. In cases where a course is cancelled due to insufficient registrations, a full tuition refund will be made.
Upon completion of the Seminar, participants should be able to define the various etiologies and physiologic conditions related to these subjects, select appropriate diagnostic procedures, understand which may occur as a result of the disease process or treatment, and indicate appropriate therapy. In addition, those able to do basic or clinical research focused on pediatric nephrology challenges, will be stimulated by those knowledgeable about research issues and be informed about support sources. It is anticipated that the exchanges of knowledge occurring during this meeting, will help identify future research directions and new approaches and technologies that will eventually lead to a better understanding of these conditions and improved treatment and prevention strategies. It is expected that the Faculty will serve as role models for future generations of Pediatric Nephrologists and serve to stimulate interest in this field as a career choice. The Pediatric Nephrology Seminars have successfully addressed for over 45 years the issues of selecting the best faculty speakers, formal lectures of short duration followed by panel discussions and case-based presentations. Informal exchanges throughout the meeting allows for clear improvement in the professional gaps of the intended audience. The faculty, format and educational design will allow learners to give better patient care with regards to early detection of kidney disease in children or its complications (i.e growth hormone deficiency) and more evidence based management of these conditions.

**ACTIVITY EDUCATIONAL GOALS**

**Goals for the Scientific Conference/Seminar.**

The purpose of the 46th Miami Pediatric Nephrology Seminar will be to review the current state/knowledge of selected relevant areas of research in Pediatric Nephrology with clinical practice implications. The specific aims of the proposed scientific Seminar are:

1. To review the current understanding of the diagnosis and management of various kidney disorders with a focus on clinical research, clinico-pathologic correlations, current approaches for the general practitioner in common kidney conditions, concepts on neonatal nephrology and hypertension, effects of recombinant growth hormone in chronic kidney disease, in-depth review on selected glomerulopathies, on-going challenges in critical care nephrology, chronic kidney disease, dialysis and transplantation, and new developments in genetic approaches to inherited disorders and precision medicine.

2. To identify the most critical and promising areas for future basic and clinical research efforts regarding Pediatric Nephrology.

3. To stimulate interest in Pediatric Nephrology as a career choice.

4. To provide role models for the next generation of Pediatric Nephrologists and a communication network for future collaboration and career support for retention of current trainees.

**FACULTY DISCLOSURE AND CONFLICT OF INTEREST RESOLUTION**

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.

**Target Audience:** Pediatric and adult nephrologists, pediatricians, internists, general practitioners, renal pathologists, neonatologists, pediatric urologists, transplant surgeons, nurses, nutritionists and allied health professionals.

**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 live activity for a maximum of 23.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity. This seminar has been planned and implemented in accordance with the essential areas and policies of the Florida Board of Nursing for Continuing Education Provider #50-2105. The University of Miami School of Nursing and Health Studies designates CEU credits for this live activity as well.