45th Miami Pediatric Nephrology Seminar and 5th Renal Pathology Course
In Memoriam of Jose Strauss, M.D.
March 8 - 11, 2018

Miami Beach, FL
The Alexander
All Suite Ocean Front Resort
5225 Collins Avenue • Miami Beach, FL 33140

For more information call 305-243-6716
Visit us at www.pediatrics.med.miami.edu/nephrology/seminar
WEDNESDAY, MARCH 7, 2018
6:00-8:00 P.M. REGISTRATION

THURSDAY, MARCH 8, 2018
CELEBRATING WORLD KIDNEY DAY

PEDIATRIC RENAL PATHOLOGY COURSE:
CURRENT CLASSIFICATION SYSTEMS
Director: David B. Thomas, M.D.
Co-Directors: Surya Seshan, M.D. and Laura Barisoni, M.D.

7:00-8:00 A.M. REGISTRATION. Continental Breakfast.
8:00-8:10 A.M. INTRODUCTION. Opening Remarks.
Gastón E. Zilleruelo, M.D.
David B. Thomas, M.D.

SESSION 1:
INTRODUCTION TO RENAL PATHOLOGY
Moderator: Surya Seshan, M.D.
8:10-8:40 A.M. Processing and Reporting of Renal Biopsies
David B. Thomas, M.D.
8:40-9:10 A.M. Algorithmic Approach to Renal Diseases
Laura Barisoni, M.D.
9:10-9:30 A.M. Discussion

SESSION 2:
KIDNEY LIMITED GLOMERULAR DISEASES
Moderator: David B. Thomas, M.D.
9:30-10:10 A.M. New Classification of Podocytopenias (MCD-FSGS)
Laura Barisoni, M.D.
10:10-10:30 A.M. Congenital and Infantile Nephrotic Syndrome
Surya Seshan, M.D.
10:30-10:50 A.M. Membranous GN
Laura Barisoni, M.D.
11:00-11:20 A.M. IgM and C1Q Nephropathy
David B. Thomas, M.D.
11:20-11:40 A.M. MPGN/DDD/C3 Nephropathy
Laura Barisoni, M.D.
11:40-12:00 P.M. Discussion

SESSION 3:
LUNCHEON SESSION
Description
12:30-1:30 P.M. Role of the Pathologist in Vasculitis/TMA
David B. Thomas, M.D.

SESSION 4:
SYSTEMIC DISEASES & TRANSPLANT PATHOLOGY
Moderator: Laura Barisoni, M.D.
1:30-2:00 P.M. Lupus Nephritis
Surya Seshan, M.D.
2:00-2:30 P.M. IgA /HSP
Surya Seshan, M.D.
2:30-3:00 P.M. Collagen Type III, IV, Fibronectin Lesions
David B. Thomas, M.D.
3:00-3:30 P.M. Banff classification and evaluation of transplant renal biopsies
Surya Seshan, M.D.
3:30-4:00 P.M. Discussion
3:40-4:00 P.M. BREAK

SESSION 5:
CLINICAL-PATHOLOGIC CORRELATIONS
Moderators: David B. Thomas, M.D. and Wacharee Seeherunvong, M.D.
4:00-5:30 P.M. Case Presentations (including Transplant Pathology and TIN and Discussion)
5:30-6:00 P.M. Competency Assessment Exam

FRIDAY, MARCH 9, 2018

PEDIATRIC NEPHROLOGY SEMINAR
Seminar Chair: Gastón E. Zilleruelo, M.D.
Seminar Associate Chairs: Carolyn L. Abitbol, M.D. and Michael Freundlich, M.D.

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

SESSION 6:
GENETICS AND PRECISION MEDICINE
Moderators: Vera Koch, M.D. and Friedhelm Hildebrandt, M.D.
8:00-8:20 A.M. Precision Medicine: Definitions and Significance
Matthew G. Sampson, M.D.
8:20-8:40 A.M. Precision Medicine in Monogenic Forms of FSGS and Cystic Kidney Diseases
Friedhelm Hildebrandt, M.D.
8:40-9:00 A.M. Alport Syndrome: From Bench to Bedside
Alessia Fornoni, M.D., Ph.D.
9:00-9:20 A.M. Tuberous Sclerosis Complex
John J. Bissler, M.D.
9:20-9:40 A.M. CAAKUT: When To Do Genetic Screening?
Friedhelm Hildebrandt, M.D.
9:40-10:10 A.M. Panel Discussion
10:10-10:30 A.M. BREAK

SESSION 7:
NEONATAL NEPHROLOGY
Moderators: Carolyn L. Abitbol, M.D. and Julie Ingelfinger, M.D.
10:30-10:50 A.M. Neonatal Nephrology and Prenatal Programming
Julie Ingelfinger, M.D.
10:50-11:10 A.M. Twin Pregnancy and Its Effect on the Kidneys
Marissa DeFreitas, M.D.
11:10-11:30 A.M. AKI in the NICU: Can we define it?
Carolyn L. Abitbol, M.D.
11:30-11:50 A.M. Predictor Markers in LUTO Disorders
Chryso Katsoufis, M.D.
11:50-12:10 P.M. Long Term Effects of Extreme LBW
Carolyn L. Abitbol, M.D.
12:10-12:30 P.M. Panel Discussion
12:30-1:30 P.M. Meet the Professors Luncheon

SESSION 8:
NEPHROLOGY FOR THE GENERAL PRACTITIONER
Moderators: Michael Freundlich, M.D. and Uri S. Alon, M.D.
1:30-1:50 P.M. RTA: Still a Problem?
Uri S. Alon, M.D.
1:50-2:10 P.M. Cystinosis: When to Recognize it?
Craig B. Langman, M.D.
2:10-2:30 P.M. Diagnosis and Management of TIN
William E. Smoyer, M.D.
2:30-2:50 P.M. Hypercalciurias: An Update
Uri S. Alon, M.D.
2:50-3:10 P.M. Vit D Deficient and Resistant Rickets
Michael Freundlich, M.D.
3:10-3:30 P.M. Panel Discussion
3:30-3:50 P.M. BREAK

SESSION 9:
HYPERTENSION AND ENDOCRINE NEPHROLOGY
Moderators: Joseph T. Flynn, M.D., M.S. and Guido Filler, M.D., Ph.D.
3:50-4:10 P.M. New Pediatric HTN Guidelines: An Overview
Joseph T. Flynn, M.D., M.S.
4:10-4:30 P.M. Salt and HTN: Are They Related?
Julie Ingelfinger, M.D.
Sunday, March 11, 2018

7:00-08:00 A.M. Registration. Continental Breakfast.

SESSION 15: DIALYSIS AND CRITICAL CARE NEPHROLOGY
Moderators: Patrick Brophy, M.D. and Bradley A. Warady M.D.

8:00-8:20 A.M. Critical Care Nephrology in the ICU: A New Specialty?
Patrick Brophy, M.D.

8:20-8:40 A.M. Modalities of Extracorporeal Therapy in the Management of AKI
Timothy Bunchman, M.D.

8:40-9:00 A.M. Nutritional Management of the Critically Ill Child
Norma J. Maxhold, M.D.

9:00-9:20 A.M. Peritoneal Dialysis Access in Children: What we need to know
Bradley A. Warady, M.D.

9:20-9:40 A.M. Panel Discussion

9:40-10:00 A.M. BREAK

SESSION 14: SPECIAL SESSION: RECOGNIZING HEROES IN PEDIATRIC NEPHROLOGY
Moderators: Gastón E. Zilleruelo, M.D. and Carolyn L. Abitbol, M.D.

10:00-10:10 A.M. Welcome to Families and Special Invitees
Gastón E. Zilleruelo, M.D.

10:10-10:30 A.M. Miracles Happen at Holtz: When Clinical Research and Practice Merge Together: The Future
George W. Burke III, M.D.

10:30-11:00 A.M. The Patient/Families Viewpoint 5 Testimonials

11:00: 11:30 A.M. AWARDS CEREMONY/ Special Gifts

11:30 A.M. ADJOURN

A HANDS-ON WORKSHOP FOR LIVE CRRT WILL TAKE PLACE AT HOLTZ CHILDREN’S HOSPITAL AT THE END OF THE SEMINAR WITH AN ADDITIONAL FEE. FOR DETAILS AND INFORMATION SEE THE ADVANCED REGISTRATION FEES SECTION OF THIS BROCHURE.

FIFTH ANNUAL PEDIATRIC CRITICAL CARE NEPHROLOGY WORKSHOP MARCH 11, 2018 | 1:00-5:00 PM - Holtz Children’s Hospital | Coordinator: Carolyn L. Abitbol, M.D.

1:00-1:10 P.M. INTRODUCTION.
Carolyn L. Abitbol, M.D.

1:10-1:30 P.M. Medical Director, Pediatric Dialysis: Developing a Program in Pediatric Dialysis
Critical Care
Evel Michel, DNP, ARNP, FNP-BC

1:30-1:50 P.M. Continuous Renal Placement Therapies in Pediatric Critical Care
Patrick Brophy, M.D.

1:50-2:10 P.M. Adapted Vascular Access for Acute Dialysis in Small Patients
Michael A. Nares, M.D.

2:10-2:30 P.M. Pharmacodynamics of CRRT: Intoxication & Hyperammonemia
Francisco J. Cano, M.D.

2:30-3:00 P.M. Workshop Stations: The Prisma Machine: Versatility
Kelli Walker, ARNP, MSN

3:00-3:30 P.M. Workshop Stations: CRRT: Blood Prime; Tandem ECMO & Transfers

3:30-4:00 P.M. Therapeutic Plasma Exchange: Indications & Applications
Chryso Katsoufis, M.D.

4:00-4:30 P.M. Assessments of PD adequacy and developing a prescription
Francisco J. Cano, M.D.

4:30-5:00 P.M. Practical Skills in Management and Parental Training
Wacharee Seeherunvong, M.D.

5:00 P.M. 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

Melvin Bonilla-Felix, M.D.
Professor and Chair, Department of Pediatrics. University of Puerto Rico, Medical Sciences Campus, San Juan, Puerto Rico

John J. Bissler, M.D.
Chief of Pediatric Nephrology and Director of the Tuberous Sclerosis Center of Excellence, Le Bonheur Children’s Hospital, Professor, The University of Tennessee Health Science Center, Memphis, TN

Patrick Brophy, M.D.
Director of Pediatric Nephrology, Children’s Hospital, Iowa City, IA President Elect American Society of Pediatric Nephrology (ASPN)

Timothy Bunchman, M.D.
Professor and Chief of Pediatric Nephrology, Children’s Hospital of Richmond at VCU, Richmond, VA

Francisco J. Cano, M.D.
Professor Titular de Pediatria, Division of Pediatric Nephrology, Hospital Luis Calvo-Mackenna Children’s Hospital, Director Revista Chilena de Pediatria Santiago, Chile

Guido Filler M.D., Ph.D.
Professor of Pediatrics, Department of Pediatrics. Children’s Hospital, London Health Science Centre University of Western Ontario, Canada

Richard N. Fine, M.D.
Professor of Pediatrics, State University of NY at Stony Brook, NY

Joseph T. Flynn, M.D.
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., Ph.D.
Professor of Pediatrics, Chief of Division of Nephrology, Children’s Hospital of Philadelphia, PA

Julie Ingelfinger, M.D.
Professor of Pediatrics and Senior consultant I Pediatric Nephrology, Mass General Hospital for Children, Boston, MA

Friedhelm Hildebrandt, M.D.
Chief Division of Nephrology, Boston Children’s Hospital, Professor of Pediatrics, Harvard Medical School, Boston, Mass

Frederick J. Kaswel, M.D., Ph.D.
Professor and Vice Chair of Pediatrics, Director for Child Health Einstein/Montefiore Institute for Clinical and Translational Research, NY

Vera Koch, M.D.
Professor of Pediatric Nephrology, Instituto da Crianza do Hospital das Clinicas, Universidad de Sao Paulo, School of Medicine, Brazil. Secretary General ALANEPE

Craig B. Langman, M.D.
The Isaac A. Abl M.D. 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, Department of Pediatrics, Program Director, Pediatric Residency Program, Program Director, Pediatric Nephrology Fellowship Program, Vice Chair for Education, The Ohio State University COM, Columbus, OH

Norma J. Maxvold, M.D.
Associate Professor of Pediatrics, Specialty Critical Care Medicine, Children’s Hospital of Richmond at VCU, Richmond, VA

Matthew G. Sampson, M.D.
Assistant Professor of Pediatrics, University of Michigan, Ann Arbor, Mi

William E. Smoyer, M.D.
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

Surya Seshan, M.D.
Professor of Pathology, Department of Pathology, The New York Hospital-Cornell Med. Ctr, New York, NY Renal Pathology Course Co-Director

Bradley Varady, M.D.
Professor of Pediatrics, University of Missouri-Kansas City School of Medicine, Director Division of Pediatric Nephrology; Director of Dialysis and Transplantation, Children’s Mercy Hospital and Clinics, Kansas City, MO

LOCAL FACULTY

Carolyn L. Abitbol, M.D.
Professor of Pediatrics Division of Pediatric Nephrology, Medical Director, Pediatric Dialysis Unit, Fellowship Training Program Director, Associate Chair Pediatric Nephrology Seminar

Laura Barisoni, M.D.
Professor of Pathology, Division Chief, Renal Pathology Service, Department of Pathology, Co-Director Renal Pathology Course

George W. Burke, III, M.D., FACS
Professor of Surgery, Director, Kidney and Kidney/Pancreas Transplantation, The Joshua Miller MD Chair in Transplant Surgery

Jayanthi Chandar, M.D.
Associate Professor of Clinical Pediatrics, Division of Pediatric Nephrology, Medical Director Pediatric Kidney Transplant Program

Sheila Coakley, R.N.
Pediatric Dialysis Unit, Nicklaus Children’s Hospital

Carlos Cuervo, M.D.
Voluntary Assistant Professor of Pediatrics, Division of Pediatric Nephrology

Marissa Defreitas, M.D.
Assistant Professor of Clinical Pediatrics, Division of Pediatric Nephrology

Leon Ferder, M.D.
Voluntary Associate Professor of Pediatrics, Division of Pediatric Nephrology

Michael Freundlich, M.D.
Professor of Clinical Pediatrics, Division of Pediatric Nephrology Associate Chair Pediatric Nephrology Seminar

Alessia Fornoni, M.D., Ph.D.
Professor of Medicine, Chief, Katz Family Division of Nephrology and Hypertension, Director, Peggy and Harold Katz Family Drug Discover Center

Giselle Guerra, M.D.
Associate Professor of Clinical Medicine, Director of the Living Kidney Donor Program, Medical Director of Transplant Services

Beverly Jackson, R.N.
Pediatric Dialysis Unit, Holtz Children’s Hospital

Chryso Katsouflis, M.D.
Assistant Professor of Clinical Pediatrics, Division of Pediatric Nephrology

Evel Michel, DNP, ARNP, FNP-BC
Nurse Educator, JHS Program Coordinator for: Daisy Certification, & Preceptor, Education & Development/Center for Nursing Excellence

Michael A. Nares, M.D.
Director, Pediatric Intensive Care Unit, Holtz Children’s Hospital, Assistant Professor of Clinical Pediatrics, Division of Pediatric Critical Care Medicine

David B. Thomas, M.D.
Professor of Pathology, Department of Pathology, Director Renal Pathology Course

Wacharee Seeherunvong, M.D.
Associate Professor of Clinical Pediatrics, Division of Pediatric Nephrology

Marie Saintvil, R.N.
Pediatric Dialysis Unit, Nicklaus Children’s Hospital

Marcia Young, R.N.
Pediatric Dialysis Unit, Holtz Children’s Hospital

Kelli Walker, ARNP, MSN
Therapy Development Specialist at Gambro

Gastón E. Zilleruelo, M.D.
Professor of Pediatrics, Director, Division of Pediatric Nephrology, Chair, Pediatric Nephrology Seminar
Flanked by the roaring Atlantic Ocean and rippling Intracoastal Waterway, the Alexander All Suite Oceanfront 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:** US $275.00 + US $10.00 Resort Fee and 14% 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 February 12, 2018 to take advantage of the above rate. Please use attendee code APEDIA when making your reservations for a discounted rate. After this date, reservation requests will be considered on a space available basis.

**Services for the Disabled:**
If special arrangements are required for an individual with a disability to attend this conference, please contact: Yvette Arauz, (305) 585-6726 and the Alexander All Suite Ocean Front Resort 1-800-327-6121 or (305) 865-6500 no later than February 19, 2018.

**For Additional Information, contact:**
Department of Pediatrics
Division of Pediatric Nephrology
P.O. Box 016960 (M-714)
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To register online, visit [http://pediatrics.med.miami.edu/nephrology/seminar](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 19, 2018. 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
- Review practical protocols for the management of patients with
- Evaluate pathogenesis, complications and management of infants and
- Use recombinant growth hormone therapy in the management of
- Recognize common kidney disorders confronted by the general
- Assess and utilize genetic diagnostic testing for use by the practitioner
- Diagnose and treat the most frequent conditions by identifying recent

CONFERENCES OBJECTIVES

1. Diagnose and treat the most frequent conditions by identifying recent discoveries in basic, translational and clinical research in selected areas of pediatric nephrology, and assessing its impact in research development and precision medicine.

2. Recognize and assess routine handling, processing and reporting of kidney biopsies with a systematic approach in the diagnosis of medical renal diseases and updated classifications.

3. Establish appropriate diagnosis and management of children with various medical renal diseases by assessing the histopathologic findings obtained from kidney biopsies.

4. Assess and utilize genetic diagnostic testing for use by the practitioner approach to children with inherited pediatric nephrology disorders.

5. Recognize the pathogenesis, diagnose complications and select appropriate management of neonates with kidney diseases.

6. Recognize common kidney disorders confronted by the general practitioner and discuss timely referral to the specialist.

7. Use recombinant growth hormone therapy in the management of children with growth impairment associated with chronic kidney disease (CKD) and assessment of nutrition abnormalities in children with this condition.


10. Review practical protocols for the management of patients with extracorporeal therapies in the critical care setting.

Upon completion of the Seminar, participants should be able to define the various etiologies and physiologic conditions relating to these subjects, select appropriate diagnostic procedures, understand that 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 44 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 regard to early detection of kidney disease in children or its complications (i.e. growth hormone deficiency) and a more evidence based management of these conditions.

ACTIVITY LEARNING OBJECTIVES

1. To review the current understanding of the diagnosis and management of various kidney disorders with a focus on clinical research, clinical-pathologic correlations, current approaches for the general practitioner in common kidney conditions, concepts on neonatal nephrology and hypertension, effects of nutrition, and recombinant growth hormone in chronic kidney disease, in-depth review on selected glomerulopathies, ongoing 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.

Pediatric Nephrology Seminar XLV and the Renal Pathology Course are 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 scientific materials.

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 32.25 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.