MIAMI PEDIATRIC NEPHROLOGY SEMINAR XLVI:
“NEW ADVANCES AND OLD CONTROVERSIES”
SCIENTIFIC PROGRAM (VERSION OCTOBER 10, 2018)

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 Welcome and Opening Remarks. Gaston 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 What’s new in ARPKD/ADPKD: Genetic Advances. Friedhelm Hildebrandt, M.D.
8:30-8:50 How to Assess Nephron Endowment in Infants. Carolyn L. Abitbol, M.D.
8:50-9:10 Oxalosis: A Preventive Approach. Craig B. Langman, M.D.
9:10-9:30 Congenital Nephrotic Syndrome: Diagnosis and Management. Marissa DeFreitas, M.D.
Mathew Sampson, M.D.
9:50-10:10 Panel Discussion
10:10-10:30 Break

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

LUNCH SESSION:
12:30-1:30 Atypical HUS: Early diagnosis and management (Spkr TBA)

SESSION 3: PEDIATRIC NEPHROLOGY FOR THE PRACTITIONER
Moderators: William E. Smoyer, M.D., Carolyn L. Abitbol, M.D.
1:30-1:50 How to best assess GFR in children? Susan L. Furth, M.D., Ph.D.
Chryso Katsoufis, M.D.
2:10-2:30 Proteinuria Assessment: Tubular vs Glomerular. Carolyn L. Abitbol, M.D.
2:30-2:50 Contemporary Imaging Techniques of the Urinary Tract. Juan C. Infante, M.D.
2:50-3:10 Biomarkers Use in Obstructive Uropathies. William E. Smoyer, M.D.
3:10-3:30 Urology Challenges in Infants Born with CAKUT. Rafael Gosalbez, M.D.
3:30-3:50 Panel Discussion
3:50-4:00 Break

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

6:00-7:00 WELCOME RECEPTION

SATURDAY MARCH 9, 2019
7:30-8:00 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 Biomarkers in Pediatric Glomerulonephritis and Nephrotic Syndrome.
William E. Smoyer, M.D.
8:20-8:40 New Therapies for Proteinuric Kidney Disorders. Frederick J. Kaskel, M.D., Ph.D.
8:40-9:00 Management of Resistant Nephrotic Syndrome in Children. Julie R. Ingelfinger, M.D.
9:00-9:20 Role of Free Radicals and other Mechanisms of Progressive CKD.
H. William Schnaper, M.D.
9:20-9:40 Can we predict progression of CKD in children? Susan L. Furth, M.D., Ph.D.
9:40-10:00 Panel Discussion
10:00-10:15 Break
10:15-10:30 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 ABPM in Specific Patient Populations: Indications and Analysis.
Mark M. Mitsnefes M.D.,MS.
10:50-11:10 Role of Pulse Wave Velocity for the Assessment of Vascular Stiffness.
Susan L. Furth, M.D., Ph.D.
11:10-11:30 What is the Impact of the New HTN Guidelines? Joseph T. Flynn, M.D.,MS.
11:30-11:50 Refractory Malignant HTN: Therapeutic Options. Wacharee Seeherunvong, M.D.
11:50-12:10 New Drugs for the Management of HTN. Guido Filler, M.D., Ph.D.
12:10-12:30 Panel Discussion
12:30-1:30 LUNCH Meet the Professors

SESSION 7: BONE DISEASE, FGF23 AND THE KIDNEY
Moderators: Uri Alon, M.D., Michael Freundlich, M.D.
1:30-1:50 FGF23, Sodium Balance and Cardiac Remodeling. Michael Freundlich, M.D.
1:50-2:10 FGF23 and Klotho in the Bone of CKD. Katherine Wesseling-Perry, M.D.
2:10-2:30 Update in Hypophosphatemic Rickets. Uri S. Alon, M.D.
2:30-2:50 Use of Cinacalcet in Refractory Hyperparathyroidism. Carolyn L. Abitbol, M.D.
2:50-3:10 Panel Discussion
3:10-3:30 Break
SESSION 8: WORKSHOP ON GROWTH AND NUTRITION IN CKD
Moderators: Bradley A. Warady, M.D., John D. Mahan, M.D.
3:30-3:50 Growth in Infants and Young Children with CKD: Are we making progress?
Bradley A. Warady, M.D.
3:50-4:10 Ideal Caloric/Protein Intake in CKD. John D. Mahan, M.D.
4:10-4:30 Role of Obesity and CKD. Melvin Bonilla-Felix, M.D.
4:30-4:50 Role of Serum Phosphorus Control in Dialysis. Bradley A. Warady, M.D.
4:50-5:00 Break
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 Coaching and Mentoring: Importance in Training Programs. John D. Mahan, M.D.
8:20-8:40 How To Attract New Applicants to Pediatric Nephrology? F. Bruder Stapleton, M.D.
8:40-9:00 Needs Assessment for Future Pediatric Nephrology Work Force in USA.
John D. Mahan, MD

SESSION 10: TRANSPLANT CHALLENGES
Moderators: Vikas Dharnidharka, M.D., MPH, Jayanthi Chandar, M.D.
9:00-9:20 Induction Therapy in Pediatric Kidney Transplantation. Jayanthi Chandar, M.D.
9:40-10:00 Pharmacokinetics of Maintenance Immunosuppressive Drugs after Transplantation. Guido Filler, M.D., Ph.D.
10:00-10:20 Preparing pediatric nephrology patients to be young adults. F. Bruder Stapleton, M.D.
10:20-10:40 Pediatric En bloc Kidney Transplant: The Miami Experience. George Burke III, M.D.
10:40-10:50 Panel Discussion
10:50-11:00 Break

SESSION 11: HEROES IN PEDIATRIC NEPHROLOGY
Moderators: Gaston E. Zilleruelo, M.D., Carolyn L. Abitbol, M.D.
11:00-11:20 Disaster Management: Lessons Learned from Hurricane Maria.
Melvin Bonilla-Felix, M.D.
11:20-11:40 Life-saving Surgery during Catastrophic Events (Spkr. TBA).
11:40-12:00 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
Holtz Children’s Hospital/ Jackson Memorial Health System
March 10, 2019

The Program:

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00-1:30 PM</td>
<td>Arrive and Lunch</td>
</tr>
<tr>
<td></td>
<td>Introduction &amp; Program Management</td>
</tr>
<tr>
<td>1:30-2:30 PM</td>
<td>Challenges &amp; Strategies</td>
</tr>
<tr>
<td>2:30-4:30 PM</td>
<td>Workshop Stations</td>
</tr>
<tr>
<td>4:30-5:00 PM</td>
<td>Break/ Snacks</td>
</tr>
<tr>
<td></td>
<td>Certificates and Farewell</td>
</tr>
</tbody>
</table>

Workshop Program:

- **Introduction and Workshop Organization:** (10 minutes)
  Carolyn Abitbol, M.D.

- **Developing a Program in Pediatric Critical Care:** (20 Minutes)
  Shereese Bennett, R.N., BSN, Nurse Manager

- **CHALLENGES & STRATEGIES (30 minutes each)**
  Pediatric Critical Care Nephrology
  - 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 station)**
  - The Prisma Machine: Versatility
    Kelli Walker, ARNP, MSN
  - CRRT: Blood Prime; Tandem ECMO & Transfers:
    Wacharee Seeherunvong, M.D.
  - Therapeutic Plasma Exchange: Indications & applications
    Marissa DeFreitas, M.D.
  - The Aquadex: Aquapheresis, SCUF and Infant CRRT
    Chryso Katsoufis, M.D.

Final Assessments & Certificates
Dr. Abitbol and Dr. Cuervo
GUEST FACULTY
* Uri S. Alon, M.D Professor of Pediatrics and Director of Research and Education, Division of Pediatric Nephrology, Children’s Mercy Hospital, University of Missouri, Kansas City, MO
* David Askenazi, M.D., MPH, Professor of Pediatrics, University of Alabama Birmingham, Director – Pediatric and Infant Center for Acute Nephrology (PICAN), Children’s of Alabama, Birmingham, AL
* Melvin Bonilla-Felix, M.D. Professor of Pediatrics and Chair Department of Pediatrics, University of Puerto Rico, San Juan, PR, Secretary General ALANEPE
* Patrick D. Brophy, M.D. William H. Eilinger 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
* 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
* 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 Lililbeth Caberto Kidney Clinical Research Unit at London Health Science Center, Ontario, Canada
* Mark M. Mitsnifes, M.D., MS. Professor of Pediatrics, Division of Nephrology and Hypertension, Program Director Clinical Translational Research Center, Cincinnati Children’s Hospital, OH
* Mathew Sampson, M.D., MSCE. Associate Professor of Pediatrics, University of Michigan, Ann Arbor, MI
* William E. Smoyer, M.D. C. Robert Kidder Chair Vicepresident, 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
* Bradley A. Warady, M.D. Professor of Pediatrics, University of Missouri-Kansas City School of Medicine, Director, Division of Pediatric Nephrology; Director, Dialysis and Transplantation, Children’s Mercy Hospital, Kansas City, MO
* Katherine Wesseling-Perry, M.D. Associate Professor of Pediatrics, Division of Pediatric Nephrology, David Geffen School of Medicine at UCLA, Los Angeles, CA M.D.
* 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

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 Chandar, M.D. Associate Professor of Clinical Pediatrics, Division of Pediatric Nephrology. Medical Director Pediatric Kidney Transplant
* Carlos Cuervo, M.D. Voluntary Assistant Professor of Pediatrics, Division of Pediatric Nephrology
* Marissa De Freitas, 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 Frether, 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
* Rafael Gosalbez, M.D. Pediatric Urology Associates, Nicklaus Children’s Hospital and Holtz Children’s Hospital
* 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
* Michael Nares, M.D. Associate Professor of Clinical Pediatrics, Division of Critical Care Medicine
* David B. Thomas, M.D. Voluntary Professor of Pathology, University of Miami Miller School of Medicine
* Judy Schaechter, M.D., MBA. Professor and Chair, Department of Pediatrics, The George E. Batchelor Endowed Chair in Child Health, University of Miami Miller School of Medicine, Chief of Service, Holtz Children’s Hospital, Jackson Health Systems
* Wacharee Seeherunvong, M.D. Associate Professor of Clinical Pediatrics, Fellowship Associate Program Director, Division of Pediatric Nephrology
* Gastón E. Zilleruelo, M.D. Professor Emeritus of Pediatrics, Director, Division of Pediatric Nephrology, Chair, Pediatric Nephrology Seminar