Virtual Miami Pediatric Nephrology Seminar & Critical Care Workshop

An Era of Challenges and Innovations In Pediatric Nephrology: Merging Vintage Wisdom with New Visions

November 19 -21

Program Schedule

Friday, November 19

10:00-10:10am Welcome and Opening Remarks
Co-Program Chairs: Carolyn Abitbol, M.D. and Jayanthi Chandar, M.D., MS
Glenn Flores, M.D., Chair of Pediatrics

10:10-12:20pm SESSION 1
FRONTIERS: EMERGING DIAGNOSES & INDIVIDUALIZED THERAPIES
Moderators: Friedhelm Hildebrandt, M.D.

10:10-10:30am Many Facets of APOL1 Gene Variants: Implications for Pediatric Disease
Matthew Sampson, M.D.

Arwa Nada, M.D.

11:00-11:20am Hyperoxaluria/Oxalosis: Diagnosis and Contemporary Management
Craig Langman, M.D.

11:25-11:45am Systemic Approach to Management of Pediatric Hypertension: Focus on CKD
Mark Mitsnefes, M.D.

11:45-12:05pm Panel Discussion

12:05-12:30pm BREAK

12:30-1:30pm LUNCH SESSION
Forging a Career as a Mother, Mentor and Physician Scientist
Alessia Fornoni, M.D., PhD

1:30-3:00pm SESSION 2
PEDIATRIC NEPHROLOGY TRAINING: CURRENT & FUTURE CHALLENGES
Moderators: John D. Mahan, M.D., Bill Smoyer, M.D., and Michael Somers, M.D.

1:30-1:50pm Coaching and Mentoring: Importance in Career Development

1:55-2:15pm Equity, Diversity & Inclusion: Past, Present & Future

2:20-2:40pm Pediatric Nephrology Workforce Summit: 2021 Report
Darcy Weidemann, M.D., MHS

2:45-3:05pm Panel Discussion

3:05-3:15pm BREAK

3:15-4:15pm SESSION 3
CLINICO-PATHOLOGIC CORRELATIONS
Moderators: Yiqin Zuo, M.D., PhD and Wacharee Seeherunvong, M.D.

3:20-4:20pm Case Presentations & Discussions (3 cases)
### Program Schedule

#### Saturday, November 20

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Moderators</th>
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<tbody>
<tr>
<td>10:00-12:00pm</td>
<td>SESSION 4</td>
<td>THE ROLE OF THE KIDNEY IN THE LIFE CYCLE</td>
<td>Julie R. Ingelfinger, M.D., and Susan Furth, M.D.</td>
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<tr>
<td>10:00-10:20am</td>
<td>Prematurity and Long-term Renal Health</td>
<td>Marissa DeFreitas, M.D.</td>
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<td>10:25-10:45am</td>
<td>Neonatal Biomarkers of Progression to Chronic Kidney Disease in CAKUT</td>
<td>Chryso Katsoufis, M.D.</td>
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<td>10:50-11:10am</td>
<td>Planning for Sexual &amp; Reproductive Function – from neonatal to adult life</td>
<td>Rafael Gosalbez, M.D.</td>
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<td>11:15-11:35am</td>
<td>Markers of Disease Progression in Childhood Nephrotic Syndrome</td>
<td>Larry Greenbaum, M.D., PhD</td>
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<td>11:40-12:00pm</td>
<td>Panel Discussion</td>
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<td>12:00-12:15pm</td>
<td>BREAK</td>
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<tr>
<td>12:15-1:15pm</td>
<td>LUNCH</td>
<td>Sponsored Lunch Session</td>
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<td>Transplant Immunology: Past, Present &amp; Future</td>
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<td>1:20-3:15pm</td>
<td>SESSION 5</td>
<td>TRANSPLANT CHALLENGES IN THE CURRENT ENVIRONMENT</td>
<td>Jayanthi Chandar, M.D., MSH and George Burke III, M.D.</td>
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<td>1:20-1:40pm</td>
<td>Biomarkers of Rejection: Where do we stand?</td>
<td>Vikas Dharmidharka, M.D., MPH</td>
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<td>1:45-2:05pm</td>
<td>Optimizing Induction Therapy in Pediatric Renal Transplantation</td>
<td>Priya Verghese, M.D., MPH</td>
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<td>2:10-2:30pm</td>
<td>Post-transplant hypertension in children: Diagnosis and management</td>
<td>Joseph Flynn, M.D.</td>
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<td>2:35-2:55pm</td>
<td>Pediatric Kidney Transplant Using the Extraperitoneal Approach</td>
<td>Gaetano Ciancio, M.D., MBA</td>
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<td>2:55-3:15pm</td>
<td>Panel Discussion</td>
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<td>3:15-3:30pm</td>
<td>BREAK</td>
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<td>3:30-4:30pm</td>
<td>SESSION 6</td>
<td>Young Investigators: Showcase (Fellows &amp; Recent Graduates Presentations)</td>
<td>Chryso Katsoufis, M.D., Marissa DeFreitas, M.D., Juan Infante, M.D., and Michael Nares, M.D.</td>
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#### Sunday, November 21

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<tr>
<td>10:00-12:00pm</td>
<td>SESSION 7</td>
<td>HEROES IN PEDIATRIC NEPHROLOGY: 2019-2021</td>
<td>Gastón Zilleruelo, M.D. and Michael Freundlich, M.D.</td>
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<td>10:00-10:20am</td>
<td>COVID’s Impact on the Global Pediatric Nephrology Community</td>
<td>Sidharth Kumar Sethi, M.D. (India)</td>
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<td>10:25-10:45am</td>
<td>Coping with COVID with Limited Resources</td>
<td>Dr. Mignon McCulloch (South Africa)</td>
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<td>10:50-11:10am</td>
<td>Innovations and Strategies for Dialysis &amp; Transplantation during COVID</td>
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<td>11:15-11:35am</td>
<td>Panel Discussion</td>
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<tr>
<td>11:40-12:00pm</td>
<td>Closing remarks / Young Investigator Awards / Future Dates</td>
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<td>12:00-1:00pm</td>
<td>LUNCH</td>
<td>Advances in Kidney Replacement Therapy in Infants 2021</td>
<td>Rupesh Raina, M.D.</td>
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<td>1:00-3:00pm</td>
<td>SESSION 8</td>
<td>WORKSHOP ON POINT OF CARE ULTRASOUND (POCUS) IN PEDIATRIC NEPHROLOGY</td>
<td>Chryso Katsoufis, M.D., Marissa DeFreitas, M.D., Juan Infante, M.D., and Michael Nares, M.D.</td>
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**Call for Abstracts. 6 Presentations; 3 Finalists to be announced at the end of the sessions on Sunday Morning**
Guest Faculty

Vikas Dharnidharka, M.D., MPH
Professor of Pediatrics, University of Washington, Director, Division of Pediatric Nephrology, Hypertension and Pheresis, Seattle, WA

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

Michael Freundlich, M.D.
Voluntary Professor of Clinical Pediatrics, Division of Pediatric Nephrology, Children’s Hospital of Philadelphia.

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

Dr. Mignon McCulloch
Associate Professor & Paediatric Nephrologist, Red Cross Children’s Hospital, University of Cape Town, South Africa

Mark M. Mitsnepes, M.D., MS
Professor of Pediatrics, Division of Nephrology and Hypertension, Program Director Clinical Translational Research Center, Cincinnati Children’s Hospital, OH

Arwa Nada, M.D.
Assistant Professor, University of Tennessee Health Science Center, MS

Rupesh Raina, M.D.
Assistant Professor and Staff, Case Western Reserve University, Cleveland, OH

Mathew Sampson, M.D., MSCE
Associate Professor of Pediatrics, Boston Children’s Hospital, MA

Sidharth Kumar Sethi, M.D.
Division of Pediatric Nephrology, Kidney Institute, Medanta, The Medicity, India

William E. Smoyer, M.D.
C. Robert Kidder Chair Vice President, Clinical and Translational Research, Director Center for Clinical and Translational Research. The Research Institute at Nationwide Children’s Hospital, Columbus, OH

Michael Somers, M.D.
Attending, Division of Nephrology; Director, Clinical Services, Division of Nephrology, Medical Director, Renal Dialysis Unit, Associate Professor of Pediatrics, Harvard Medical School, MA

Priya Verghese, M.D., MPH
Division Head, Nephrology, Interim Medical Director, Pediatric Kidney Transplant Program; Professor of Pediatrics (Nephrology), Northwestern University Feinberg School of Medicine, IL

Darcy K. Weidemann, M.D., MHS
Pediatric Nephrologist; Associate Professor of Pediatrics, University of Missouri-Kansas City School of Medicine; Education Assistant Professor of Pediatrics, University of Kansas School of Medicine, MO

Local Faculty

Carolyn L. Abitbol, M.D.
Professor of Pediatrics, Division of Pediatric Nephrology, Fellowship Program Director, Chair Pediatric Nephrology Seminar

George Burke III, M.D.
Professor of Surgery, Division of Transplant Surgery, MTI

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

Gaetano Ciancio, M.D., MBA
Professor of Surgery and Urology, University of Miami Miller School of Medicine

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

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

Glenn Flores, M.D.
Chair of Pediatrics, Senior Associate Dean of Child Health, George E. Batchelor Endowed Chair in Child Health, University of Miami Miller School of Medicine, Physician-in-Chief, Holtz Children’s Hospital, Jackson Health System, Director, APA/NIDDK Research in Academic Pediatrics Initiative on Diversity (RAPID)

Alessia Fornoni, M.D., PhD
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 Consultant, Holtz Children’s Hospital

Juan C. Infante, M.D.
Voluntary Assistant Professor of Radiology, Department of Radiology, Orlando

Chryso Katsoulos, M.D.
Associate Professor of Clinical Pediatrics, Division of Pediatric Nephrology, Director of Pediatric Dialysis Unit, Holtz Children’s Hospital

Michael Naeres, M.D.
Associate Professor of Clinical Pediatrics, Division of Critical Care Medicine

Wacharee Seeheranvong, M.D.
Associate Professor of Clinical Pediatrics, Fellowship Associate Program Director, Division of Pediatric Nephrology

Gastón E. Zilleruelo, M.D.
Professor Emeritus of Pediatrics, Emeritus Chair, Pediatric Nephrology Seminar

Yiqin Zuo, M.D., PhD
Assistant Professor, Department of Pathology & Laboratory Medicine
COURSE DESCRIPTION

The Miami Pediatric Nephrology Seminar, now in its 47th year, is a unique international gathering of pediatric and adult nephrologists, pediatricians, internists, general practitioners, renal pathologists, neonatologists, pediatric urologists, transplant surgeons, nurses, nutritionists, and allied health professionals from all over the United States and the world sponsored by the University of Miami, Leonard Miller School of Medicine and Holtz Children’s Hospital at Jackson Memorial Hospital. The content is basic, the approach is clinical. Conceptual and practical problems are featured in a balance of formal presentations followed by informal discussions. Topics covered relate research advances to the understanding of mechanisms of renal disease, pathological expressions and clinical diagnosis and management. 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. The 47th Pediatric Nephrology Seminar will include a total of 8 Sessions from November 19-21, 2021 covering a wide range of topics including: Frontiers: Emerging Diagnoses & Individualized Therapies, Pediatric Nephrology Training: Current & Future Challenges, Clinico-Pathologic Correlations (Workshop), The Role of The Kidney In The Life Cycle, Transplant Challenges in The Current Environment, Young Investigators: Showcase (Fellows & Recent Graduate Presentations), Heroes In Pediatric Nephrology: 2019-2021 – Lessons Learned from The Covid Pandemic: Recognizing Global Heroes During Difficult Times and a Workshop On Point of Care Ultrasound (Pocus) In Pediatric Nephrology. This last session, an Interactive Workshop on POCUS in Pediatric Nephrology, will include basic concepts in the use of POCUS to evaluate the kidneys and urinary tract in children in the office and critical care situation. This will include line placement as well as renal transplantation and renal biopsy. The Seminar will feature a number of distinguished local and guest faculty who will provide expertise and cordial exchanges including several panel discussions. As in previous years, we hope to secure funding for a limited number of grants for national and international attendees. Preference will be given to fellows and recent graduates in Pediatric Nephrology.

CONFERENCE LEARNING OBJECTIVES

Upone completion of the course, participants should be able to identify, formulate an individualized treatment plan and teach the rationale to fellows and young colleagues; recognize and assess reporting of kidney biopsies with a systematic approach in the diagnosis of medical renal diseases and updated classifications; identify racial bias and address implicit inequities in access to care; explore individualized treatment associated with pathological assessments, and analyze contemporary laboratory and immunologic data to understand and combat rejection and graft loss. Participants will develop an understanding and clinical approach to the assessment of a patient in the context of the life cycle from pre-conception to birth to neonatal, childhood and lifelong development and will have an important perspective of the wide variation in the global needs and access to care in Pediatric Nephrology. 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 46 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 a more evidence based management of these conditions.
ACTIVITY EDUCATIONAL GOALS

Goals for the Scientific Conference/Seminar
The purpose of the 47th 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, new developments in genetic approaches to inherited disorders, clinico-pathologic correlations, concepts on neonatal nephrology and hypertension, in-depth review on selected glomerulopathies and progressive chronic kidney diseases, on-going challenges in critical care nephrology, dialysis, and transplantation.

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

3. To recognize the needs and challenges regarding training and recruitment of young practitioners and physician scientists into the specialty with a focus on diversity, equity, and inclusion.

4. To highlight the impact and innovations required to cope with the global COVID-19 pandemic on the practice of Pediatric Nephrology worldwide.

5. To provide an opportunity for the next generation of Pediatric Nephrologists to highlight their scientific and scholarly contributions in a congenial and nurturing environment and to develop a network for future collaborations and career development.

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 11.5 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.