3rd State-of-the-Art Reviews in
NEONATAL-PERINATAL MEDICINE

October 18-20, 2018
Global Center for Health Innovation
Cleveland, OH

REGISTER NOW!
EARLY BIRD SAVINGS UNTIL AUGUST 20TH, 2018
www.ccfcme.org/neonatal2018
Overview

We invite you to attend the 3rd State-of-the-Art Reviews in Neonatal-Perinatal Medicine. Over three days, you will learn from world renowned speakers on recent updates on etiology of preterm labor, role of genetic factors and hormones such as progesterone, acute kidney injury and rare renal diseases, neonatal abstinence syndrome, postnatal use of steroid in preterm infants, problems of late preterm and early term infants, respiratory management of infants with hypoxic-ischemic encephalopathy, fetal surgery, and more.

Workshops

A full-day workshop on the use of Bubble CPAP Ventilator simulation
A half-day workshop on renal replacement therapy during ECMO and in other complicated cases

Who should attend:

This activity is designed for neonatologists, pediatricians, neonatal nurses, nurse practitioners, nephrologists, pediatric neurologists, physician assistants, nurse practitioners, respiratory therapists, residents, fellows, students, and other professionals interested in neonatal-perinatal medicine.

Learning Objectives:

1. Identify clinical outcomes associated with the use of Bubble CPAP, explain technical difficulties in administering CPAP and discuss complications of mechanical ventilation.
2. Discuss pathogenesis of preterm labor.
3. Diagnose borderline cases of HIE and their management.
4. Discuss newer therapies in management of neonatal abstinence syndrome.
5. Improve diagnosis of adrenal failure and appropriate use of postnatal steroids.
6. Discuss acute kidney injury and rare renal diseases.

Activity Director

Hany Aly, MD, MSHS
Chairman, Department of Neonatology
Cleveland Clinic Children’s Hospital
Professor of Pediatrics, Case Western Reserve University

Activity Co-Director

Prem Shekhawat, MD
Associate Professor of Pediatrics
MetroHealth Medical Center
Case Western Reserve University

Cleveland Clinic Planning Committee

Jalal Abu-Shaweesh, MD, MBA
Chairman of Pediatrics, Fairview
Associate Professor of Pediatrics
Carol Bennett MBA, MSN, APRN, PCNS-BC
Nursing Pediatric Clinical Nurse Specialist
Robert L. Chatburn, MHHS, RRT-NPS, FAARC
Clinical Research Manager
Simulation Fellowship Director
Adjunct Professor - Department of Medicine, Lerner College of Medicine
Firas Saker, MD
Medical Director
Professor of Pediatrics at Northeast Ohio Medical University
Natalie Yeaney, MD
Clinical Assistant Professor of Pediatrics
Neonatal Director Fetal Care Center
Advisory Committee

Sharon L Groh-Wargo, PhD
Senior Nutritionist
Professor, Case Western Reserve
University Cleveland
MetroHealth Medical Center

Deepak Kumar, MD
Professor of Pediatrics, CWRU SOM
Program Director, Neonatal-Perinatal Fellowship Training Program
MetroHealth Medical Center

John Moore, MD
Professor of Pediatrics and Reproductive Biology, CWRU
Head, Division of Neonatology
MetroHealth Medical Center

Rupesh Raina, MA, FACP, FAAP, FASN, FNKF
Director of Medical Research in Internal Medicine
Akron General Medical Center, Cleveland Clinic Foundation
Staff at Akron Children’s Hospital
Associate Professor and Faculty Staff at Case Western Reserve University
School of Medicine Cleveland Ohio
Cleveland, OH

Cleveland Clinic Faculty

Darrell Cass, MD
Director of Fetal Surgery
Department of General Surgery

Neil Friedman, MBChB
Director, Center for Pediatric Neurology

Charles Kwon, MD
Center Head for Pediatric Nephrology

Ibrahim Sammour, MD FAAP
Assistant Professor of Pediatrics

Amanda Sheppard RRT-NPS
NICU Respiratory Supervisor

Sheilagh Stoicoiu MSN, RNC-NIC, CKC
Nursing Professional Development Specialist

Guest Faculty

Arvind Bagga MD, FAMS, FIAP, FISN
Professor
ICMR Center for Advanced Research in Nephrology
Department of Pediatrics
All India Institute of Medical Sciences
India

Irina Alexandra Buhimschi, MD
Director of the Center for Perinatal Research
Professor in the Department of Pediatrics and Obstetrics/Gynecology
Nationwide Children's Hospital
Ohio State University College of Medicine
Columbus, OH

Theodore Cicero, PhD
Professor of Psychiatry
Washington University School of Medicine
St. Louis, MO

Mohamed El-Dib, MD
Director, Neonatal Neurocritical Care Program
Department of Pediatric Newborn Medicine
Brigham and Women's Hospital
Boston, MA

Walter K. Kraft, MD,
Professor of Pharmacology and Experimental Therapeutics
Thomas Jefferson University
Philadelphia, PA

Shefali Mahesh, MD
Pediatric Nephrologist
Akron Children's Hospital
Akron, OH

Cherry Mammen, MD
Pediatric Nephrologist
British Columbia's Children's Hospital
Clinical Associate Professor
University of British Columbia
Vancouver, Canada

Mignon McCulloch, MD
Paediatric Intensive and Critical Unit and Pediatric Nephrologist
Professor at University of Cape Town
Paediatric Renal advisor to Kings College Hospital (London) for the Paediatric Liver and Small Bowel Transplant Program
Cape Town, South Africa

Sam Mesiano, PhD
Department of Reproductive Biology
Case Western Reserve University
Cleveland, OH

Mohamed A. Mohamed, MD, MS, MPH, FAAP
Director, Division of Newborn Services
Associate Professor of Pediatrics and Global Health
The George Washington University
Medical Center
Washington, DC
Guest Faculty (continued)

Louis J. Muglia, MD, PhD
Co-Director, Perinatal Institute
Director, Center for Prevention of Preterm Birth
Director, Division of Human Genetics
Professor, UC Department of Pediatrics
Cincinnati Children's Hospital
Medical Center
Cincinnati, OH

Stephen Myers, MD
Assistant Professor, Gynecology & Obstetrics
University of Kansas Medical Center
Kansas City, KY

Rakesh Sahni, MD
Medical Director, NICU
Professor of Pediatrics at CUMC
Columbia University Medical Center
NewYork-Presbyterian/Morgan Stanley Children’s Hospital
Columbia University College of Physicians and Surgeons
New York, NY

Naveen Uli, MD
Fellowship Program Director, Pediatric Endocrinology, UH Cleveland Medical Center
Program Director, Pediatric Endocrinology, UH Rainbow Babies and Children's Hospital
Associate Professor, Pediatrics, CWRU School of Medicine
Cleveland, OH

Kristine B. Walhovd, PhD
Professor of Neuropsychology
Center for Lifespan Changes in Brain and Cognition (LCBC)
Department of Psychology
University of Oslo, Norway
Oslo, Norway

Kristi Watterberg, MD
Professor, Department of Pediatrics, School of Medicine
University of New Mexico Health Sciences Center
University of New Mexico
Albuquerque, NM

Jen Wung, MD
Professor of Pediatrics
Columbia University College of Physicians and Surgeons
Children's Hospital of New York
New York, NY

Register online at www.ccfcme.org/neonatal2018

Respiratory or Nephrology Session and General Session Fee Includes: Continental breakfast, refreshment breaks, Thursday Respiratory or Nephrology session, and faculty PowerPoint presentations in PDF format, available online.

<table>
<thead>
<tr>
<th>Category</th>
<th>On or Before August 20, 2018</th>
<th>After August 20, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physician</td>
<td>$250</td>
<td>$300</td>
</tr>
<tr>
<td>Non-Physician</td>
<td>$200</td>
<td>$250</td>
</tr>
<tr>
<td>Resident/Fellow/Student</td>
<td>$50</td>
<td>$75</td>
</tr>
</tbody>
</table>

General Session Only Fee Includes: Friday and Saturday continental breakfast, refreshment breaks, and faculty PowerPoint presentations in PDF format, available online.

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<thead>
<tr>
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<tbody>
<tr>
<td>Physician</td>
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<tr>
<td>Non-Physician</td>
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<tr>
<td>Resident/Fellow/Student</td>
<td>$50</td>
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Thursday Only Workshop Session Fee Includes: Continental breakfast, refreshment breaks, and Thursday faculty PowerPoint presentations in PDF format, available online.

<table>
<thead>
<tr>
<th>Session</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>Respiratory Session</td>
<td>$100</td>
</tr>
<tr>
<td>Nephrology Session</td>
<td>$100</td>
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</tbody>
</table>

In case of cancellation, email notification is required to process your refund. A full refund will be issued if canceled by September 25, 2018. After September 25, 2018, a $75 cancellation fee will be deducted from your refund. No refunds will be issued after October 11, 2018.

For questions about registration or cancellation, email us at cmeregistration@ccf.org or call 216.448.8710.

Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any meeting cancellations or changes.
## Agenda

### Bubble CPAP & Respiratory Session – Thursday, October 18, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration, Continental Breakfast, and Visit Exhibits</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Bubble CPAP</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>History and Physiology of Bubble CPAP</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>Reproducibility of Bubble CPAP Workshop</td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Successful Strategies in Managing Newborns with Bubble CPAP</td>
</tr>
<tr>
<td>10:45 AM</td>
<td>Break</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Bedside Considerations for CPAP</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Inhaled Nitric Oxide in the Preterm Infant</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>Conventional vs. Volume Targeted Ventilation of the Neonate</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Simulation Session A</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>Simulation Session B</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Q&amp;A / Adjourn</td>
</tr>
</tbody>
</table>

### Nephrology Session – Thursday, October 18, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>7:00 – 2:00 PM</td>
<td>Registration</td>
</tr>
<tr>
<td>1:15 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Workshop</td>
</tr>
<tr>
<td>2:20 PM</td>
<td>Station 1: ECMO and CRRT-Case Based Simulation-Protocol Based CRRT Prescription</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>Station 2: Peritoneal Dialysis – PD Catheter Insertion and Prescription and Case Based Simulation for Approach to Peritonitis</td>
</tr>
<tr>
<td>3:45 PM</td>
<td>Station 3: Hemodialysis and SLED-HD Prescription and Case Based Approach</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Station 4: Case Based Discussion: Inborn Errors of Metabolism and Prescription for High Flow CRRT</td>
</tr>
<tr>
<td>4:30 PM</td>
<td>Adjourn</td>
</tr>
</tbody>
</table>
### General Session – Friday, October 19, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration, Continental Breakfast, and Visit Exhibits</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>Welcoming Remarks</td>
</tr>
<tr>
<td>8:15 AM</td>
<td>Genetics of Preterm Birth</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>The Somalis: A Unique African American Population With Low Rate of Preterm Birth</td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Break</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>Progesterone and Preterm Birth</td>
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<tr>
<td>10:45 AM</td>
<td>Break</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Rare Renal Disease</td>
</tr>
<tr>
<td>11:45 AM</td>
<td>Break</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Opioid Epidemic: US and Global Perspectives, Current trends, Opioid Addiction in Pregnancy</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Break</td>
</tr>
<tr>
<td>3:10 PM</td>
<td>Pharmacological treatment of NAS: New Developments, How Do They Compare to Established Standards, Future</td>
</tr>
<tr>
<td>3:55 PM</td>
<td>Short-Term and Long-Term Neurodevelopment Outcomes in Children Following in-Utero Opioid Exposure</td>
</tr>
<tr>
<td>4:40 PM</td>
<td>Q&amp;A / Adjourn</td>
</tr>
<tr>
<td>7:00 PM</td>
<td>Non-CME Dinner</td>
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</tbody>
</table>

### Saturday, October 20, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Notes</th>
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<tbody>
<tr>
<td>7:00 AM</td>
<td>Registration and Continental Breakfast</td>
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<tr>
<td>8:15 AM</td>
<td>Welcoming Remarks</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Assessment of Fetal and Neonatal Adrenal Function</td>
</tr>
<tr>
<td>9:15 AM</td>
<td>Clinical Trials of Postnatal Steroids</td>
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<tr>
<td>10:00 AM</td>
<td>Break</td>
</tr>
<tr>
<td>10:15 AM</td>
<td>Postnatal Steroids: The Good, The Bad, and The Ugly</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>Late Preterm Birth</td>
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<tr>
<td>11:45 AM</td>
<td>Physiologic Underpinnings for Clinical Problems in Moderately Preterm and Late Preterm Infants</td>
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<tr>
<td>12:30 PM</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:30 PM</td>
<td>Fetal Surgery 2018: Current State-of-the-Art</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Hypoxic Ischemic Encephalopathy</td>
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<tr>
<td>3:00 PM</td>
<td>Break</td>
</tr>
<tr>
<td>3:15 PM</td>
<td>Respiratory Management and HIE</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Q&amp;A / Adjourn</td>
</tr>
</tbody>
</table>
General Information

Venue Location & Hotel Information

Global Center for Health Innovation
1 St. Clair Avenue NE
Cleveland, OH 44114
Phone: 216.920.1450

Parking

Valet parking is available at the Global Health Center and across the street at the Marriott. Self-parking is also available at the Huntington Garage on Lakeside Avenue at prevailing rates.

A limited block of rooms has been reserved at the CLEVELAND MARRIOTT DOWNTOWN AT KEY CENTER until September 17, 2018. The hotel is directly across the street from the Global Center for Health Innovation.

To make your reservations, please visit https://bit.ly/2yIGVNk or contact the hotel at 216.696.9200 and identify yourself as an attendee for the 3rd State-of-the-Art Reviews in Neonatal-Perinatal Medicine room block staying at the Cleveland Marriott Downtown at Key Center for a special rate of $139 per night single or double occupancy. Hotel room rates are subject to applicable state and local taxes (currently 16.50%) in effect at the time of check-out.

Faculty Disclosure

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

Americans with Disabilities Act

The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at least two weeks prior to the activity.

Accreditation Statement

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 21.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

The Ohio Board of Nursing will accept at face value the number of contact hours awarded for an educational activity that has been approved for CE by a nationally accredited system for CE approval. Nurses are able to obtain CE that has been approved by a nationally recognized accreditation system of continuing education.

Respiratory Therapists: Application pending

American Board of Pediatrics MOC

Successful completion of this CME activity, which includes participation in the activity, with individual assessments of the participant and feedback to the participant, enables the participant to earn 14 MOC points in the American Board of Pediatrics’ (ABP) Maintenance of Certification (MOC) program. It is the CME activity provider’s responsibility to submit participant completion information to ACCME for the purpose of granting ABP MOC credit.

ABP MOC must be selected at the time of registration and is available for general sessions, Friday and Saturday only. Full attendance in these sessions is required in order to receive MOC points.

Other Health Care Professionals

A certificate of attendance will be provided to other health care professionals for requesting credits in accordance with state nursing boards, specialty societies, or other professional associations.
Cleveland Clinic Children’s and MetroHealth invite you...

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