

Neonatal Pharmacology Conference 2020: Incorporating Evidence-Based Practice into Clinical Decision Making



November 11-13, 2020

LIVE STREAMING
CME Meeting

Participate from your laptop or desktop computer.

All live streaming sessions have been approved for
AMA PRA Category 1 Credits™

Presented by the Medical University of South Carolina
Neonatal Nurse Practitioner Team,
Division of Neonatology,
and the Office of Continuing Medical Education



Neonatal Pharmacology Conference 2020: Incorporating Evidence-Based Practice into Clinical Decision Making

COURSE FACULTY

David H. Adamkin, M.D.

Professor of Pediatrics
Division of Neonatal Medicine
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Louisville, KY

Rene Amaya, M.D., FAAP, CWSP

Medical Director
Amaya Wound Healing & Aesthetics
Houston, TX

David Annibale, M.D.

Professor, Department of Pediatrics
Director, Division of Pediatric Neonatology
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Charleston, SC

Varsha "Rani" Bandisode, M.D.

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Director, Pediatric Catheterization Laboratory
Director, Inpatient Services
Medical University of South Carolina
Charleston, SC

David Bundy, M.D.

Professor, Department of Pediatrics
Chief Patient Safety Officer, MUSC Health
Medical University of South Carolina
Charleston, SC

Reese H. Clark, M.D.

Vice President of Clinical Research
MEDNAX Inc
Clinical Professor of Pediatrics
USC Greenville School of Medicine
Greenville, SC

Margaret Conway-Orgel, DNP, NNP-BC, C-ELBW

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Cleveland, OH

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Yale School of Medicine
New Haven, CT

Kelli W. Williams, M.D., MPH

Assistant Professor of Pediatrics
Allergy and Immunology
Medical University of South Carolina
Charleston, SC



CONFERENCE DESCRIPTION

The need for evidenced-based practice in neonatology is increasingly important as clinical decisions and treatments are made. The conference is designed to help NICU professionals including physicians, nurse practitioners, nurse managers and experienced staff nurses make those decisions. The goal of the conference is to share evidence based approaches in the care of the neonate.

LIVE STREAMING

Due to COVID-19 and the CDC's recommendation of social distancing, the 2020 Neonatal Pharmacology Conference will be offered on a virtual basis only, through Live Streaming. This decision was not an easy one to make. We have concluded that having attendees confined for three days would put their health and wellbeing at risk along with their colleagues, families, and patients.

REGISTRATION FEES

	Early	Regular	One Day
Live Streaming (Everyone)	\$350	\$400	\$150

Early registration fees apply if registration is received on or before August 31, 2020.

The fee for live streaming the meeting includes tuition, online syllabus, and certificates of attendance.

Please make your check payable to Medical University of South Carolina and mail with the registration form included in this brochure to: Elizabeth Gossen, MUSC Office of CME, 96 Jonathan Lucas Street, HE221A, MSC 754, Charleston, SC 29425.

REGISTRATION METHODS

(Please use ONE of these methods to register. Do not mail if previously faxed or telephoned).

- **Mail** registration form with check made out to "Medical University of South Carolina" or credit card information to:
Elizabeth Gossen, Office of CME, Medical University of South Carolina,
96 Jonathan Lucas Street, HE 221A, MSC 754, Charleston, SC, 29425
- **Telephone:** (843) 876-1925 – Registration by credit card only
- **Fax:** (843) 876-1931 – Registration by credit card only
- **Online:** Visit <https://tinyurl.com/2020Neonatal-online>

AMERICANS WITH DISABILITIES ACT

It is the policy of the Medical University of South Carolina not to discriminate against any person on the basis of disabilities. If you feel you need services or the auxiliary aids mentioned in this act in order to fully participate in this continuing education activity, please call the Office of Continuing Medical Education at (843) 876-1925, or attach a note to your registration.

CREDIT DESIGNATION

The Medical University of South Carolina designates this live activity for a maximum of **20.00 AMA PRA Category 1 Credit(s)**[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



Nursing Credit: This activity has been submitted to the South Carolina Nurses Association for approval to award contact hours. The South Carolina Nurses Association is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

Advanced Practice Registered Nurses: This continuing education activity awards a total of **20.00 PH** (pharmacology hours). Hours for controlled substances are 2.0.

ACCREDITATION

The Medical University of South Carolina College of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

DISCLOSURE STATEMENTS

In accordance with the ACCME Essentials & Standards, anyone involved in planning, presenting or moderating at this educational activity will be required to disclose any relevant financial relationships with commercial interests in the health care industry. This information will be made available to participants at the beginning of the activity. Speakers who incorporate information about off-label or investigational use of drugs or devices will be required to disclose that information at the beginning of their presentation.

ANNUAL MEETING OF THE SOUTH CAROLINA NEONATAL MEDICINE CONSORTIUM

On **Friday November 13, 2020** (following the conclusion of that day's meeting), there will be the Annual Meeting of South Carolina Neonatal Medicine Consortium. This meeting will be held virtually from 2:00-4:30 pm and is open to any providers from a South Carolina Level II or Level III Medical Center. There is no extra charge for live streaming this meeting.

The Medical University of South Carolina designates this live activity for a maximum of **2.0 AMA PRA Category 1 Credit(s)**[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing Credit: Most states accept CMEs that apply to a specific nursing specialty as nursing continuing education. Please check with your respective State Board of Nursing to ascertain the equivalent number of contact hours offered for **2.0 AMA PRA Category 1 Credit(s)**[™].

To RSVP for the Annual Meeting of South Carolina Neonatal Medicine Consortium, please see the SC Consortium section on the registration form.



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COURSE AGENDA At the end of each presentation, learners should be better able to achieve the respective objectives stated.

Wednesday, November 11, 2020

- 7:15 am **Join Live Stream/Virtual Exhibit Hall**
- 7:30am **Neonatal Opioid Withdrawal Syndrome: Current and Emerging Evidence for Management**, *Julie Ross, M.D.*
Describe the growing burden of Neonatal Opioid Withdrawal Syndrome; Compare and contrast assessment tools for NOWS; Discuss and evaluate evidence for medication treatment options in NOWS
- 8:30am **The Surgeons Role in the Opioid Epidemic**
Mark Lockett, M.D.
Recognize how proceduralists can impact the opioid epidemic
- 9:30am **BREAK/Virtual Exhibit Hall**
- 9:45 am **The Curious Case of Oliver Brown: Stepping Back to See the Big Picture**, *Margaret Conway-Orgel, DNP, NNP-BC, C-ELBW*
Analyze atypical presentation in preterm infant with surgical NEC post reanastomosis; List possible complications following surgical repair of Necrotizing Enterocolitis (NEC); Discover strategies to resolve underlying problem in neonate with small bowel bacterial over growth
- 10:45am **Late-Onset Sepsis**
Heidi Murphy, M.D.
Describe the epidemiology of neonatal late-onset sepsis; Discuss the risk factors for neonatal late-onset sepsis; Describe management strategies for neonatal late-onset sepsis; Describe outcomes associated with neonatal late-onset sepsis
- 11:45am **LUNCH BREAK**
- 12:45pm **Neurodevelopmental Outcomes and Antibiotic Use**
Heidi Murphy, M.D.
Review the current literature detailing neurodevelopmental outcomes in neonates after infections and antibiotic exposure; Identify the impact of antibiotic utilization and subsequent microbiome changes on neurodevelopmental outcomes in neonatal patients; Discuss the impact of significant inflammatory reactions on neurodevelopmental outcomes in neonatal patients
- 1:45pm **Neonatal Medication Safety: Not All HROs Wear Capes**
David Bundy, M.D.
Define a high reliability organization (HRO); Give compelling examples of HRO attributes from non-medical industries; Compare HRO practices with common NICU medication practices; Propose practical steps to improve the reliability of medication use in their NICUs
- 2:45pm **BREAK/Virtual Exhibit Hall**
- 3:00pm **20-Something**
David Annibale M.D.
Develop a basis for informed discussion with obstetricians and families presenting with extremely preterm labor
- 4:00pm **Adjourn for the Day**

Thursday, November 12, 2020

- 7:00 am **Join Live Stream/Virtual Exhibit Hall**
- 7:30am **Premedication for Non-Emergent Intubation**
Ellen Diego, M.D.
Review physiologic response to intubation and optimal intubation conditions to guide pre-procedural bedside preparation; Outline non-emergent premedication drug classes, review drug selection and frequently encountered drug side effects; Review current intubation practices and protocols for bedside nurses;
- 8:30am **Neonatal Hypoglycemia: Making Sense of Different Opinions** *David Adamkin, M.D.*
Discuss Postnatal Glucose Homeostasis and Transitional Neonatal Hypoglycemia; How do we reconcile AAP vs Pediatric Endocrine Society Recommendations; Outcomes related to Hypoglycemia; Use of Dextrose gel for Neonatal Hypoglycemia
- 9:30am **BREAK/Virtual Exhibit Hall**
- 9:45am **Hyperglycemia in the VLBW Infant: How Often, How Much?**
David Adamkin, M.D.
Discuss the definition of Hyperglycemia in the VLBW infant; Morbidities related to Hyperglycemia in the VLBW infant; Prophylactic increase Glucose infusions to Prevent Hyperglycemia
- 10:45am **Where's the Beef/Evidence? How is Neonatal Care Changing?**
Reese Clark, M.D.
Discuss clinical applications of and the ethical challenges of genomics in the NICU; Discuss new approaches to non-invasive respiratory support in the NICU; Discuss new guidelines for management of meconium aspiration syndrome; Discuss new guidelines for managing hypoglycemia.
- 11:45am **LUNCH BREAK**
- 12:45pm **Where's the Beef/Evidence? Notable articles 2018-2019**
Reese Clark, M.D.
Discuss how care for infants with seizures is changing; Discuss the new guidelines for managing neonatal sepsis and infants born to moms with chorioamnionitis; Discuss the safety and efficacy of erythropoietin in the NICU.
- 1:45pm **Bulking Up Against Adrenal Suppression: A Practical Approach**
Rita Ryan, M.D.
Treat neonates for adrenal suppression
- 2:45pm **BREAK/Virtual Exhibit Hall**
- 3:00pm **Aersolized Surfactant: Reprised and Revisited**
Rita Ryan, M.D.
Treat neonates for surfactant deficiency
- 4:00pm **Management of Neonatal Seizures**
Katie Malloy, PharmD, BCPPS
Design a treatment plan for neonatal seizures; Compare and contrast individual medications for treatment of seizures with regards to mechanism, pharmacokinetics, dosing, adverse effects, and administration; Recommend monitoring parameters for various anti-epileptic medications; Create a vitamin supplementation plan, where appropriate, for refractory seizures
- 5:00pm **Adjourn for the Day**

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COURSE AGENDA (CONTINUED)

Friday, November 13, 2020

- 7:00 am Join Live Stream/Virtual Exhibit Hall
- 7:30 **Abnormal TREC on Newborn Screen and When to Worry About Immunodeficiency**
Kelli Williams, M.D.
Review how prematurity increases risk for infection; Interpret TREC screening on NBS and manage abnormal results; Identify warning signs and symptoms of a neonate with immunodeficiency
- 8:30 am **Update on Advanced Wound Care in the Neonatal Patient**
Rene Amaya, M.D.
Discuss the unique skin characteristics that increase the risk for trauma and wound development in the neonate; Discuss the basic principles of wound care and how they apply to the NICU patient; Review advanced wound care dressings and techniques
- 9:30 am BREAK/Virtual Exhibit Hall
- 9:45 am **IV Extravasation Injuries**
Rene Amaya, M.D.
Recognize the importance of early recognition and documentation of the wound; Identify steps in management and treatment
- 10:45 am **Nutritional Support of the Preterm Infant with Respiratory Disease**
Sarah Taylor, M.D.
Determine the association between nutrient delivery and development of bronchopulmonary dysplasia; Identify the effects of respiratory care medications on very preterm infant nutrition and growth; Identify the best ways to nourish when transient respiratory distress in late preterm and term infants
- 11:45 am **Parenteral Nutrition Associated Cholestasis**
Sarah Taylor, M.D.
Determine the components of parenteral nutrition associated with liver injury; Determine methods to decrease parenteral nutrition toxicity while optimizing infant growth; Identify interventions for infant with parenteral nutrition associated liver disease
- 12:45 pm Adjourn until 2021
- 2:00 pm **Annual Meeting of South Carolina Neonatal Medicine Consortium**
See next column for consortium agenda

Annual Meeting of South Carolina Neonatal Medicine Consortium

(2.0 AMA PRA CATEGORY 1 CREDITS™)

Open to providers from SC Level II and Level III centers

- 1:45 Join Live Stream
- 2:00 **Quality Data Review (No CME Credit)**, *Julie Ross, M.D.*
- 2:30 **Implementing a Small Baby Unit: Strategies and Outcomes**
Matthew Halliday, M.D.
Identify key components in the development of a Small Baby Unit; Apply data from publications on development and implementation of a Small Baby Unit; Evaluate outcomes after implementation of a Small Baby Unit
- 3:30 **New Era of Duct Closure: Closing PDAs in Very Small Infants**
Varsha "Rani" Bandisode, M.D.
Recognize what PDA is and why it is a problem; Discuss PDA scoring and if it is a good predictor of clinical symptoms; Describe the Risk and Benefits of surgery versus Cath; Review the outcomes with early PDA closure
- 4:30 pm Adjourn

CANCELLATIONS

A refund will be made upon written request prior to October 11, 2020; however, \$100 will be retained for administrative costs. No refunds will be made after October 11, 2020. We reserve the right to cancel the program if necessary. Full registration fees will be refunded for cancelled programs. **By registering for this conference, you agree to this cancellation policy.**

ELECTRONIC SYLLABUS

The conference syllabus will be provided online. Information will be emailed to you the week prior to the conference so that you may download a copy.

MORE INFORMATION

For more information, visit www.musc.edu/cme, call the Office of CME at (843) 876-1925, or email gossen@musc.edu.



REGISTRATION FORM

Neonatal Pharmacology Conference 2020 Incorporating Evidence-Based Practice into Clinical Decision Making

November 11-13, 2020

By Registering for this conference, you acknowledge and agree to the cancellation policy stated in this brochure.

Name _____ Personal ID# XXX-XX- _____
As you would like it printed on your name badge. Please use the last four digits of your SSN

Address _____

City _____ State _____ Zip Code _____

Specialty _____ Degree/Credentials _____

Daytime Phone (_____) _____ - _____ Business Fax (_____) _____ - _____

Email _____
Please use the email address you check most regularly to ensure receipt of all CME Credit emails.

☐ I do not want my name included on a list of participants to be included in handouts at the conference.

Annual Meeting of South Carolina Neonatal Medicine Consortium

Friday, November 13, 2020 • 2:00-4:30 pm

This meeting is open to any providers from a SC Level II or Level III Medical Center. There is no extra charge to attend this meeting.

- ☐ YES, I will live stream the Annual Meeting of South Carolina Neonatal Medicine Consortium.
☐ NO, I will NOT live stream the Annual Meeting of South Carolina Neonatal Medicine Consortium.

Registration Fees

	Early Bird Fees Received on or by 8/31/20	Regular Fees Received after 8/31/20	One Day Only**
Live Streaming	☐ \$350	☐ \$400	☐ \$150

**If you selected One Day Only, indicate which day: _____

Payment must accompany registration:

- ☐ Check Payable to Medical University of South Carolina
☐ MasterCard ☐ Visa ☐ American Express

Cardholder's Name _____

Card Number _____

Expiration Date _____

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Please direct any inquiries to Elizabeth Gossen, Office of CME 843.876.1925 or gossen@muscc.edu

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