

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 University of Louisville St. Louisville, KY

Rene Amaya, M.D., FAAP, CWSP

Medical Director Amaya Wound Healing & Aesthetics Houston, TX

David Annibale, M.D.

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Varsha "Rani" Bandisode, M.D.

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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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Julie Ross, M.D.

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Rita Ryan, M.D.

Professor of Pediatrics Case Western Reserve University UH Rainbow Babies & Children's Hospital Cleveland, OH

Sarah N. Taylor, M.D., MSCR

Associate Professor of Pediatrics 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.

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) TM .

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

CREDIT DESIGNATION

The Medical University of South Carolina designates this live activity for a maximum of **20.00** *AMA PRA Category 1 Credit(s)*TM. 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.

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

ACCESS TO RECORDED PRESENTATIONS

The MUSC Office of CME, with the permission of each speaker, will be recording each presentation of the conference. The videos will be posted online after the conference and be available for those who are not able to live stream the entire conference. Viewing the videos will offer the same amount of CME credit and can be viewed for up to 14 days following the posting date. The *non-refundable* fee for this service is \$100.00 and is only available to individuals registered for the conference. Access to the videos will be granted to attendees who purchase this option in advance of the conference.

Credit Designation: The Medical University of South Carolina designates this enduring material for a maximum of 1.0 *AMA PRA Category I Credit(s)*TM for each video. Physicians should only claim the credit commensurate with the extent of their participation in the activity.



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

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

Join Live Stream/Virtual Exhibit Hall 7:15 am

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

BREAK/Virtual Exhibit Hall 9:30am

The Curious Case of Oliver Brown: Stepping Back to See the 9:45 am

> Big Picture, Margaret Conway-Orgel, DNP, NNP-BC, C-ELBW Analyze atypical presentation in preterm infant with surgical NEC post reanastamosis; 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

LUNCH BREAK 11:45am

Neurodevelopmental Outcomes and Antibiotic Use 12:45pm

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

Neonatal Medication Safety: Not All HROs Wear Capes 1:45pm

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

BREAK/Virtual Exhibit Hall 2:45pm

20-Something 3:00pm

David Annibale M.D.

Develop a basis for informed discussion with obstetricians and families

presenting with extremely preterm labor

Adjourn for the Day 4:00pm

Thursday, November 12, 2020

Join Live Stream/Virtual Exhibit Hall 7:00 am

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;

Neonatal Hypoglcyemia: Making Sense of DIfferent Opinions 8.30am

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

BREAK/Virtual Exhibit Hall 9:30am

Hyperglycemia in the VLBW Infant: How Often, How Much? 9:45am

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

Where's the Beef/Evidence? How is Neonatal Care Changing? 10:45am

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.

LUNCH BREAK 11:45am

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 chorioamnionitits; 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

BREAK/Virtual Exhibit Hall 2:45pm

Aersolized Surfactant: Reprised and Revisited 3:00pm

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

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

8:30am 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

9:30am BREAK/Virtual Exhibit Hall

9:45am IV Extravasation Injuries

Rene Amaya, M.D.

Recognize the importance of early recognition and documentation of the wound; Identify steps in management and treatment

10:45am 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

11:45am 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 CREDITSTM)

Open to providers from SC Level II and Level III centers

1:45 **Join Live Stream**

2:00 Neonatal Consortium Update (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 is it 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.

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.

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.

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O I do not want my name included on a list o	of participants to be included in handouts	at the conference.			
	Annual Meeting of South Carolin Friday, November 13	na Neonatal Medicine Cor 3, 2020 • 2:00-4:30 pm	sortium		
This meeting is open to any providers for YES, I will live stream the Annual Meet NO, I will NOT live stream the Annual	ing of South Carolina Neonatal Medicin	e Consortium.	harge to attend	this meeting.	
Registration Fees	Early Bird Fees			One Day Only**	
Live Streaming	Received on or by 8/31 O \$350	1/20 Received af O \$, ,	O \$150	
**If you selected One Day Only, indicate	which day:				
Access to Recorded Presentations*					
O Yes, I would like access to the record O No, I do not want access to the reco *The videos will be posted online after the conference. Viewing t	orded videos for an additional fee of \$	\$100.00	oosting date		
Payment must accompany registration: O Check Payable to Medical University of S O MasterCard O Visa O America					
Cardholder's Name					
Card Number		Expirat	ion Date	CVV Security Code	
The fee for live streaming the meeting includ	es tuition, online syllabus, and certificates	of attendance.			

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