# FIRST ANNUAI



2023 Comprehensive Review in Maternal Critical Care

## April 14-15, 2023 The Draftsman Hotel, Charlottesville, VA

In-Person and Virtual Attendance Options

#### COLLABORATIVELY SPONSORED BY

· Department of Anesthesiology

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- · Department of Obstetrics and Gynecology
- · Department of Internal Medicine

The distinguished faculty is comprised of renowned experts selected to provide an interactive, multidisciplinary, and interprofessional educational program.

COURSE DIRECTORS: Dr. Mohamed Tiouririne, MD, UVA, Department of Anesthesiology Michelle F. Dawson, MSN, AGACNP-BC, RN

PROGRAM MANAGER: Erica Ford, M.Ed



# Course Description

#### As a medical community,

we were acutely faced with the implications of critical illness on maternal outcomes, pregnancy progression and fetal wellbeing when the COVID-19 pandemic taxed our knowledge, systems, and readiness to care for this complex specialty population. In this two-day course, we will provide the learner with a comprehensive review of maternal critical illness. Developed by a multidisciplinary team of experts in the fields of Obstetrics, Maternal Fetal Medicine, Obstetric Anesthesiology, Internal Medicine and Critical Care Medicine, this conference will promote a teambased approach on maternal critical care topics using evidenced-based learning techniques incorporating adult learning theory.

The main sessions will present an overview of maternal morbidity and mortality, common and unique obstetric emergencies, and how to build bridges between labor and delivery and the critical care units. Participants will have the opportunity to demonstrate clinical application during case-based teamwork activities and glean practical tips from expert petitioners. This course is designed for physicians, physician assistants, advanced practice nurses, ICU nurses, Labor and Delivery nurses, pharmacists, and all other healthcare providers with an interest in maternal critical care.

# Desired Outcomes

At the end of the educational activity, learners will be able to:

- Describe the epidemiology of maternal morbidity and mortality in the United States.
- Explain key methods of hemodynamic monitoring and end-points of resuscitation in the decompensating pregnant patient.
- Compare the key hemodynamic principles and management of various shock states in the pregnant patient including obstructive, cardiogenic, and distributive shock.
- Identify key risk factors and describe key management principles of acute cardiac emergencies in the pregnant patient including acute MI and aortic dissections.
- Appraise normal versus abnormal findings in pointof-care ultrasound (POCUS) exams.
- Incorporate the benefits and methods of maternal critical care into fellowship training.
- Distinguish the risk factors and common presentation of embolic phenomenon.
- Articulate the role of VA-ECMO in the management of embolisms.
- Differentiate key differences in ACLS protocol including emergency cesarean delivery and the various roles of VA-ECMO.
- Compare normal versus abnormal findings in transthoracic echocardiography exams.

- Describe the clinical features of pre-eclampsia, eclampsia, and HELLP syndrome, and the diagnosis and management of each.
- Recognize common pregnancy-related complications and the associated management techniques for hemorrhage/DIC, amniotic fluid embolism, placental abruption and rupture.
- Assess the unique pathophysiology and management of airway, pulmonary physiology and mechanical ventilation during pregnancy.
- Evaluate key physiologic principles and associated management of respiratory failure and severe ARDS in pregnancy, and the role of VV-ECMO for the pregnant patient.
- Classify the physiologic and hormonal affects that place pregnant patients at risk of subarachnoid hemorrhage and stroke.
- Develop goals and objectives of maternal critical care between Labor & Delivery and the Intensive Care Unit teams.
- Apply a stepwise approach to engagement and development of a maternal critical care ICU/team.
- Engage multiple stakeholders in development and implantation of a maternal critical care team.

# AGENDA

### Friday, April 14, 2023

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TIME	TOPIC	PRESENTER
7:00 - 7:45	Breakfast (Provided) / Exhibitor Hall / Registration	
7:45 - 8:00	Opening Remarks and Welcome	Dr. Peggy McNaull, Chair, Dept.of Anesthesiology Dr. Paola Gehrig, Chair, Dept. Obstetrics & Gynecology Dr. Mitchell Rosner, Chair, Dept of Internal Medicine
SESSION 1	Introduction to Maternal Critical Care	Mohamed Tiouririne, MD
8:00 - 8:25	By the Numbers: Maternal Mortality and Morbidity	Christian Chisholm, MD
8:25 - 8:50	The Devil is in the Details: A Physiology Overview of the Pregnant Mother	Rebecca Rieck, MD
8:50 - 9:15	Drugs and Drips: Pharmacological Considerations during Maternal Critical Illness	Christina Hayhurst,MD
9:15 - 9:40	The Other Patient: The Warning Signs of Fetal Distress	Christopher Ennen, MD
9:40 - 10:00	Interactive Panel: 0 & A	Tiouririne, Chisholm, Ennen, Hayhurst, Rieck
10:00 - 10:15	COFFEE BREAK	Meet/Greet with Exhibitors
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SESSION 2	Obstetric Emergencies	Rebecca Rieck, MD
10:15 - 10:40	Call the Blood Bank: An Overview of Obstetric Hemorrhage	Jessica Sheeran, MD
10:40 - 11:05	From Bad to Worse: Obstructive Shock	Venkat Mangunta, MD
11:05 - 11:30	The Exception(s) to the Rule: Sepsis in Pregnancy:	Mohamed Tiouririne, MD
11:30 - 11:55	Let's Talk Endocrine: Insulin Drips, Pumps, and Other Emergencies	Jen Kirby, MD
11:55 - 12:15	Interactive Panel	Rieck, Sheeran, Mangunta, Tiouririne, Kirby
12:15 - 1:15	LUNCH (Provided)	Meet/Greet with Exhibitors
SESSION 3	Pulmonary	Christina Hayhurst, MD
1:15 - 1:40	When It's Time to Tube: Airway Management	Ashley Garneau, MD
1:40 - 2:05	Protecting the RV: Let's Talk Pulmonary Hypertension	Andrew Mihalek, MD
2:05 - 2:30	Under Pressure: Ventilator Mechanics in Pregnancy	Kyle Enfield, MD
2:30 - 2:55	Desperate Measures: Management Strategies for Severe Respiratory Failure	Kim Boswell, MD
2:55 - 3:15	Interactive Panel: Q & A	Hayhurst, Garneau, Mihalek, Enfield, Boswell
3:15 - 3:30	BREAK	
SESSION 4	Pulling It All Together: An Expert Approach	Mohamed Tiouririne, MD
3:30 - 4:00	The Time is Now: Incorporating Point of Care Ultrasounds in Labor & Delivery Units	Sachin Mehta, MD
4:00 - 5:00	Interactive Sessions: Cases / Q&A Interactive with Panel	Enfield, Philips, Hayhurst, Chisholm
5:15 - 5:30	Closing Remarks	Mohamed Tiouririne, MD

## Saturday, April 15, 2023

7:00 – 8:00 BREAKFAST (Provided)

SESSION 1	Neuro-Obstetrics	Kim Boswell, MD
8:00 - 8:25	The ABC's of Neuro-Obstetric Critical Care	Nadia Lunardi, MD
8:25 - 8:50	The Patient is Seizing: Understanding Preeclampsia and Its Management	Christian Chisholm, MD
8:50 - 9:15	HEILP and Mimickers	Christopher Ennen, MD
9:15 - 9:40	Oh, My Head: Acute Ischemic and Non-Ischemic Stroke	Bhiken Naik. MD
9:40 - 10:00	Interactive Panel: Q & A	Naik, Lunardi, Chisholm, Ennen
10:00 - 10:15	COFFEE BREAK	Meet/Greet with Exhibitors
SESSION 2	Heart Aches During Pregnancy	Venkat Mangunta,MD
10:15 - 10:40	Just One Part of the Puzzle: Principles of Hemodynamic Monitoring	Mohamed Tiouririne, MD
10:40 - 11:05	When the Heart Can't Keep Up: Cardiomyopathy & Heart Failure	Steven Philips, MD
11:05 - 11:30	When Heartburn is Something Else: Acute Cardiac Emergencies:	Allison Lankford, MD
11:30 - 11:55	Baby Blues: Management of Congenital Heart Diseases	Karen Rheuban, MD
11:55 - 12:15	Interactive Panel: 0 &A	Mangunta, Tiouririne, Philips, Rheuban, Lankford
12:15 - 1:15	e e e e e e e e e e e e e e e e e e e	
12.10 - 1.10	LUNCH (Provided)	Meet/Greet with Exhibitors
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SESSION 3	Collaboration is Key	Allison Lankford, MD
1:15 - 1:40	The Golden Hour: A Case-Based Approach on Trauma in Pregnancy	Molly Flannagan, MD
1:40 - 2:05	Building Bridges: Team-Based Maternal Critical Care	Carey Casassa, RN
2:05 - 2:30	You Need a Plan: Best Practices for Navigating Multiple Stakeholders	Mohamed Tiouririne, MD
2:30 - 2:55	Start Early: Incorporating Maternal Critical Care into Fellowship Training	Christopher Ennen, MD
2:55 - 3:15	Interactive Panel	Lankford, Flannagan, Saunders, Tiouririne, Ennen
2:45 - 3:00	BREAK	,,, _,, _
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SESSION 4	Bringing it all together	Mohamed Tiouririne, MD
3:30 - 4:15	Team-Based Cases with Panel Discussion	Tiouririne, Dawson, Ennen, Rieck,
4:15 - 5:00	Roundtable on Advancing Maternal Critical Care – Panel	
		Chisholm, Lunardi, Tiouririne, Naik, Dawson
5:00 - 5:15	Closing Remarks	Mohamed Tiouririne, MD

#### ACCREDITATION & DESIGNATION STATEMENT



In support of improving patient care, the University of Virginia School of Medicine and School of Nursing is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

This activity was planned by and for the healthcare team, and learners will receive **15** Interprofessional Continuing Education (IPCE) credits for learning and change. The University of Virginia School of Medicine and School of Nursing

The University of Virginia School of Medicine and School of Nursing IPCE CREDIT<sup>™</sup> designates this live activity for a maximum of **15** AMA PRA Category **1** Credits.<sup>™</sup> Physicians should claim only the credit commensurate

with the extent of their participation in the activity. The University of Virginia School of Medicine and School of Nursing awards **15 contact hours** for nurses who participate in this educational activity and complete the post activity evaluation.

The University of Virginia School of Medicine and School of Nursing awards [15] hours of participation (consistent with the designated number of AMA PRA Category 1 Credit™ or ANCC contact hours) to a participant who successfully completes this educational activity.

The University of Virginia School of Medicine and School of Nursing maintains a record of participation for six (6) years.

Credit will be uploaded to CPE Monitor within 60 days of the end date of the activity. A certificate from our learning portal validates only learner participation. It will be the responsibility of the pharmacist or pharmacy technician to provide the correct information in order to receive credit for participating in this CE activity. Please log into your NABP Profile to see your credit recorded and print your official transcript.



The University of Virginia School of Medicine and School of Nursing has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 15 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation. Successful completion of this activity, planned in accordance with the need-

ed MOC requirements, enables the participant to earn **MOC Part II Self-assessment** points equivalent to the amount of **AMA PRA Category 1<sup>™</sup>** claimed for the activity, through the American Board of Medical Specialties (ABMS) and Accreditation Council for Continuing Medical Education (ACCME®) joint initiative to create a wide array of Maintenance of Certification (MOC) Activities. The awarded transcript provides for both **AMA PRA Category 1<sup>™</sup>** and MOC II Self-assessment credit for the following participating boards:

- American Board of Anesthesiology (ABA)
- · American Board of Internal Medicine (ABIM)
- American Board of Pediatrics (ABP)
- American Board of Surgery (ABS)

NOTE: It is the accredited provider's responsibility to submit learner completion information to the ACCME for the purpose of granting MOC II Self-assessment credit for the above boards. For learners wishing to receive credit through a Member Board not included above, please refer directly to your Member Board's MOC Part II Lifelong Learning and Self-Assessment Program Requirements.

#### REGISTRATION

Registration and payment are available at **www.cmevillage.com**, (visit our Learning Portal or Upcoming Events). Registration will close midnight on **April 9, 2023. NO WALK IN REGISTRATION.** The course syllabus will be available online only the week of the conference until 30 days after the conference.

PLEASE NOTE: Policies on cancellation, payment methods and accommodation requests can be found on our website under FAQs. Additional questions, please contact uvacme@virginia.edu or 434-924-5310.

	Until 3/11	3/12-4/9
Physicians	\$550.00	\$650.00
Other Healthcare Providers	\$425.00	\$525.00
Residents/Fellows	\$100.00	\$100.00

Event recordings will be available for 30 days after the event to registered attendees.

#### HOTEL ACCOMMODATIONS

#### RESERVATIONS

**TO REGISTER** 

Rooms have been reserved at The Draftsman Hotel in Charlottesville at a discounted rate of \$209/night on Wednesday, April 13th – April 16th and will be available on a first come, first served basis. Attendees will need to make their own reservations with the group name "2023 Maternal Care Conference" by using the link below or calling (434)984-8000. All reservations must be made by **Sunday, March 12, 2023**, after which time rooms will be released and can't be guaranteed to be available.

https://www.marriott.com/event-reservations/reservation-link. mi?id=1666800123267&key=GRP&app=resvlink

**PARKING...** at The Draftsman is valet only at a cost of \$18/day.

#### **CONTACT INFORMATION**

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#### UVA FACULTY \*Denotes Planning Committee Member

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#### Rebecca Rieck, MD, FACOG\*

Assistant Professor, Maternal Fetal Medicine Department of Obstetrics and Gynecology

#### Matthew P. Robertson, MSN, RN,

ACNP-BC, CCRN\* Critical Care Nurse Practitioner Surgical Trauma Intensive Care Lead Advanced Practice Provider - Surgery

Carey Casassa, RN, BSN, RNC-OB\* Nurse

#### Alexis South, PA-C\* Physician Assistant Critical Care Medicine

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Professor of Obstetrics and Gynecology

**Critical Care Clinical Pharmacist** 

Suzie Telfer, PharmD\*

**Christian Chisholm, MD** 

Co-Interim Division Director

Division of Pulmonary and Critical Care Medical Director Medical Intensive Care Unit

PCCM Division Quality Officer

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#### Steven Philips, MD, PhD

Assistant Professor of Medicine Division of Cardiovascular Medicine

#### Karen Rheuban, MD

Professor of Pediatrics Division of Cardiology and Pediatrics Senior Associate Dean for Continuing Medical Education and External Affairs Co-founder and Director of the UVA Center for Tele-health

#### Jessica Sheeran, MD

Associate Professor of Anesthesiology Division of Obstetrics Associate Director of Anesthesia Clerkship

### GUEST SPEAKERS

#### Kimberly A. Boswell, MD, FACEP

Assistant Professor Department of Emergency Medicine University of Maryland School of Medicine

R Adams Cowley Shock Trauma Center University of Maryland Medical Center

#### Christina Hayhurst, MD

Associate Professor Anesthesiology Critical Care Medicine Fellowship Director Anesthesiology Critical Care Medicine Director Clinical Operations,

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#### Allison Lankford, MD Assistant Professor

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