



Critical Care Medicine Board Review 2025

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Title: Critical Care Medicine Board Review 2025

Chair: Meredith Pugh, MD

Vice-Chair: Bhakti Patel, MD

Date: August 20-22, 2025

Location: Glenview, IL

Agenda

Wednesday, August 20, 2025

7:00 – 7:15 AM	Welcome <i>Bhakti Patel, MD and Meredith Pugh, MD</i>
7:15 – 8:00 AM	Acute Kidney Injury and Acid-Base Disorders <i>Todd W. Rice, MD, MSc, FCCP</i>
8:00 – 8:45 AM	Extrapulmonary Infections <i>Eddie Qian, MD, MSACI</i>
8:45 – 9:30 am	Care of the Immunocompromised Patient <i>Eddie Qian, MD, MSACI</i>
9:30 – 9:45 AM	Break
9:45 – 10:30 AM	Pneumonia <i>Karen Jackson, MD</i>
10:30 AM – 11:15 AM	Care of the Critically Ill Patient With Obstructive Lung Disease <i>Karen Jackson, MD</i>
11:15 AM – 12:00 PM	Seizures, Strokes, and Intracranial Bleeding <i>Vikas Koppurapu, MD</i>
12:00 PM – 12:35 PM	Lunch
12:35 – 1:20 PM	Neuromuscular Disease, Traumatic Brain Injury, Intracranial Hypertension, and Brain Death <i>Vikas Koppurapu, MD</i>
1:25 – 2:25 PM	Rapid-Fire Questions: Session #1 (Small Group) Acid-Base (Rice/Patel/Kimmig) Infections (Qian/Jackson/Pugh)
2:25 – 2:40 PM	Break
2:40 – 3:25 PM	Poisonings and Overdose <i>Lucas Kimmig, MD</i>
3:25 – 4:10 PM	Hypothermia/Hyperthermia and Rhabdomyolysis <i>Lucas Kimmig, MD</i>
4:10 – 4:55 PM	Tachyarrhythmia and Advanced Cardiac Life Support <i>Frank Zimmerman, MD</i>
4:55 – 5:40 PM	Bradyarrhythmias and Pacing <i>Frank Zimmerman, MD</i>
5:40 – 6:10 PM	Rapid-Fire Questions: Session # 2 (Large Group) EKGs (Zimmerman)

Thursday, August 21, 2025

6:55 AM	Welcome <i>Bhakti Patel, MD and Meredith E. Pugh, MD, MSCI</i>
7:00 – 7:45 AM	Electrolyte Disorders <i>Jason T. Poston, MD</i>
7:45 – 8:30 AM	Acute Respiratory Distress Syndrome <i>Jason T. Poston, MD</i>
8:30 – 9:15 AM	Acute Coronary Syndromes <i>Murtuza J. Ali, MD</i>
9:15 – 10:00 AM	Congestive Heart Failure and Mechanical Support <i>Murtuza J. Ali, MD</i>
10:00 – 10:15 AM	Break
10:15 – 11:00 AM	Extracorporeal Membrane Oxygenation <i>Matthew Prekker, MD</i>
11:00 – 11:45 AM	Managing Hemorrhage, Transfusions, Coagulopathies <i>Matthew Prekker, MD</i>
11:45 – 12:15 PM	Endocrine Emergencies <i>Jayna Gardner-Gray, MD</i>
12:15 – 12:45 PM	Lunch
12:45 – 1:45 PM	Rapid-Fire Questions: Session # 3 (Smaller Group) Electrolyte disorders & GI (Poston / Krishnan / Patel) Potpourri (Prekker / Gardner-Gray / Pugh)
1:50 – 2:35 PM	Hypertensive Emergencies <i>Jayna Gardner-Gray, MD</i>
2:35 – 3:20 PM	GI Bleeding, Pancreatitis, and <i>Clostridium difficile</i> <i>Amita Krishnan, MD</i>
3:20 – 3:35 PM	Break
3:35 – 4:20 PM	Trauma and Perioperative Care <i>Amita Krishnan, MD</i>
4:20 – 5:05 PM	Shock <i>Bhakti Patel, MD</i>
5:05 – 5:30 PM	Hemodynamic Monitoring <i>Meredith E. Pugh, MD, MSCI</i>
5:30 – 6:00 PM	Rapid-Fire Questions: Session # 4 (Large Group) Hemodynamic monitoring / shock (Patel / Pugh)

Friday, August 22, 2025

6:55 AM	Welcome <i>Bhakti Patel, MD and Meredith Pugh, MD</i>
7:00 – 7:45 am	Sedation, Delirium, and Liberation From the Ventilator <i>Bhakti Patel, MD</i>
7:45 – 8:30 AM	Acute and Chronic Liver Failure <i>Amy E. Morris, MD, FCCP</i>
8:30 – 9:15 AM	Point-of-Care Ultrasound <i>Amy E. Morris, MD, FCCP</i>
9:15 – 10:00 AM	Pulmonary Embolism, PH, and Right Heart Failure <i>Meredith E. Pugh, MD, MSCI</i>
10:00 – 10:15 AM	Break
10:15 AM – 11:00 AM	Heme-Onc Emergencies <i>Alexander S. Niven, MD, FCCP</i>
11:00 AM – 11:45 AM	Airway Management and Bronchoscopy <i>Alexander S. Niven, MD, FCCP</i>
11:45 AM – 12:25 PM	Lunch
12:25 – 1:10 pm	Mechanical Ventilation Review: Modes and Strategies <i>Gustavo A. Cortes Puentes, MD</i>
1:10 – 1:55 PM	Ventilator Dyssynchrony and Troubleshooting <i>Gustavo A. Cortes Puentes, MD</i>
1:55 – 2:10 PM	Break
2:10 – 3:20 PM	Rapid-Fire Questions: Session # 5 (Large Group) Mechanical Ventilation (Cortes Puentes / Niven) Potpourri (Patel / Pugh)
3:20 – 3:30 PM	Wrap-Up <i>Bhakti Patel, MD</i> <i>Meredith E. Pugh, MD, MSCI</i>

***Please note: all times are given in Central Time (CST).**

Pre-recorded lectures (available on-line before / after live course)

Nutrition - Todd Rice, MD, MSc, FCCP

Intra-abdominal Emergencies – *Meredith Pugh, MD*

Statistics for the Boards - *Amita Krishnan, MD*

Hemodynamic waveform review, *Meredith Pugh, MD*



Course Description

This premier course will review the information you should know for the ABIM Critical Care Medicine Certification Examination. The exam tests your knowledge and clinical judgment in crucial areas of critical care medicine. Course content mirrors the content of the exam, as outlined by the ABIM. Whether you need to certify, recertify, or simply review, this course offers a thorough review you can put to the test with confidence.

Course Objectives

After participating in this educational activity, you should be able to:

- Evaluate real-life patient cases, diagnoses, and treatments in critical care medicine.
- Apply clinical judgment skills to the diagnosis and treatment of critically ill patients.
- Differentiate between various rare and common clinical problems related to critical care medicine.

Passing Standard

In order to pass this course, participants will be required to complete a pre-test, pass the post exam with a score of 70% or higher, and complete a post evaluation form.

CHEST Learning Category(s)

Learning Category 1: Lecture-based

Maintenance of Licensure

Maintenance of Credit (MOC) offered in medical knowledge.

Scope of Practice – Critical Care Education

FACULTY

Murtuza J. Ali, MD

Professor of Clinical Medicine
LSU School of Medicine
New Orleans, LA

Gustavo A. Cortes Puentes, MD

Consultant, Division of Pulmonary and Critical Care Medicine
Assistant Professor of Medicine, Mayo Clinic School of Medicine
Mayo Clinic
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Jayna Gardner-Gray, MD

Fellowship Program Director
Critical Care Medicine Assistant Unit Director
Medical Intensive Care Unit ECMO Director
Medical Intensive Care Unit Division of Pulmonary and Critical Care Medicine
Henry Ford Health
Detroit, MI



Karen Jackson, MD

Assistant Professor Division of Pulmonary, Critical Care & Sleep Medicine
Rush University Medical Center
Chicago, IL

Lucas Kimmig, MD

Assistant Professor of Medicine
University of Chicago Medical Center
Chicago, IL

Vikas Koppurapu, MD, FCCP

Pulmonary and Critical Care Medicine Consultant,
Director of Respiratory Care,
Emplify Health (Formerly Gundersen Health System)
Clinical Assistant Adjunct Professor, Department of Medicine,
University of Wisconsin School of Medicine and Public Health

Amita Krishnan, MD

Assistant Professor of Clinical Medicine
Associate Program Director - PCCM Fellowship.
Section of Pulmonary/Critical Care and Allergy/Immunology
Louisiana State University Health Sciences Center
New Orleans, LA

Amy E. Morris, MD, FCCP

Associate Professor
Division of Pulmonary, Critical Care, and Sleep Medicine
Director of Inpatient POCUS
University of Washington Medical Center
Seattle, WA

Alexander S. Niven, MD, FCCP

Professor of Medicine
Education Chair, Division of Pulmonary and Critical Care Medicine
Mayo Clinic
Rochester, MN

Bhakti Patel, MD (Vice-Chair)

Assistant Professor of Medicine
Section of Pulmonary and Critical Care
University of Chicago
Chicago, IL

Jason T. Poston, MD

Associate Professor of Medicine
Section of Pulmonary and Critical Care
Department of Medicine
University of Chicago
Chicago, IL



Matthew E. Prekker, MD

Associate Professor of Medicine (Pulmonary/Critical Care) and Emergency Medicine
Hennepin County Medical Center
University of Minnesota Medical School
Minneapolis, MN

Meredith E. Pugh, MD (Chair)

Associate Professor of Medicine
Program Director, Pulmonary and Critical Care Fellowship
Division of Allergy, Pulmonary and Critical Care Medicine
Vanderbilt University Medical Center
Nashville, TN

Edward T. Qian, MD

Assistant Professor of Medicine
Division of Pulmonary and Critical Care Medicine
Vanderbilt University Medical Center
Nashville, TN

Todd W. Rice, MD, MSc, FCCP

Professor of Medicine
Director, Medical Intensive Care Unit for Vanderbilt University Medical Center
Vice-President for Clinical Trial Innovation and Operations
Vanderbilt University Medical Center
Nashville, TN

Frank Zimmerman, MD

Clinical Associate
Divisions of Pediatric and Adult Cardiology
University of Chicago Medical Center
Chicago, IL

DISCLOSURE OF RELEVANT FINANCIAL RELATIONSHIPS

The mission and vision of CHEST include our commitment to providing accurate, balanced, evidence-based information to health care professionals participating in this educational course. To guarantee our accredited continuing education is fair and balanced and that any clinical content presented supports safe, effective patient care, we require all planners, faculty, and others in control of educational content to complete and submit financial disclosures of any relevant financial relationships with [Accreditation Council for Continuing Medical Education defined ineligible companies](#) within the prior 24 months. We value the contributions of those who are committed and passionate about pulmonary medicine and want to be a part of our educational courses; however, it is our commitment to our learners to have continuing education free of commercial bias and marketing.

Identified conflicts of interest are reviewed by the educational course course director/chair, the Education Committee, and/or the Professional Standards Committee to ensure conflicts are properly mitigated. CHEST educational standards pertaining to conflict of interest are intended to ensure the delivery of balanced, evidence-based, scientific presentations. Disclosure of any or no relevant financial relationships will be made available online in course materials and on site during all educational courses.



The following faculty/planner members of this course have disclosed to CHEST that they have a financial relationship with a commercial interest as it relates to the course:

Name	Role	Disclosure
Rice, Todd (MD, FCCP)	Faculty	Consultant relationship with Sanofi; January 2020 - Present; Consultant relationship with Cytovalle, Inc; January 2018 - July 2022; Consultant relationship with Cumberland Pharmaceuticals, Inc; January 2016 through present

The remaining faculty/planner members of this course that are not listed in the grid above have indicated to CHEST that they have no relevant financial relationships with any commercial interests.

Education Committee/Planners

Chair

Hans J. Lee, MD, FCCP

Research, Consultant: Veran Medical, Veracyte, Coridea, Intuitive, Cook Medical, Merit Medical; President: Association of Interventional Pulmonary Program Directors; Education: Intuitive; Focus Group: Cook Medical; Advisory Board: Veracyte.

Vice-Chair

Mark Lavercombe, MBBS, FCCP

No relevant financial disclosures

CHEST CME Staff Planners

The following staff members have no relevant financial relationships to disclose:

Lisa Alvarez

Carolyn M. Jones

Teresa Rodriguez-Aviles

Richard Schuch, Ed.D

CME/CE INFORMATION

CME/CE Claim Instructions

2025 Critical Care Medicine Board Review

To complete the Education Activity Evaluation for **2025 Critical Care Medicine Board Review** claim CME/CE credits and download CME/CE certificates and certificates of attendance (COA), please see the instructions below. **You must complete your evaluation and download your certificate prior to the product expiration date.**

1. Sign in and navigate to your "My Learning" account at education.chestnet.org.
2. Find the course or event in your list and complete all required post course work.
3. Claim credits when prompted.

Your certificate and transcript can be viewed at any time under Claimed Courses on the [Manage CME](#) page.



If you are claiming MOC points, please make sure that your full name, date of birth, and ABIM number listed in your CHEST account matches what is listed in your ABIM account. To prevent delays in receiving MOC points, please check that your ABIM account is current.

If you need help, contact the CHEST Accreditation Team at cme@chestnet.org. For faster assistance, outline the specific problem you are having, and provide your CHEST ID and contact information.

**YOU MUST COMPLETE THE POSTCOURSE ASSESSMENT AND EDUCATION ACTIVITY EVALUATION
PRIOR TO THE PRODUCT EXPIRATION DATE**

Physician Credit

The American College of Chest Physicians is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The American College of Chest Physicians designates this enduring material for a maximum of **27 AMA PRA Category 1 Credit™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing Credit

Provider approved by the California Board of Registered Nursing, Provider Number 16433, for **27** contact hours.

Nurse Practitioners

The American Academy of Nurse Practitioners Certification Board (AANPCB) accepts *AMA PRA Category 1 Credit™* from organizations accredited by the ACCME. Individuals are responsible for checking with the AANPCB for further guidelines.

Physician Assistants

American Academy of Physician Assistants (AAPA) accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credit™* from organizations accredited by ACCME or a recognized state medical society. PAs may receive a maximum of **27** Category 1 credits for completing this activity.

Maintenance of Certification Statement

Successful completion of this CME course enables the participant to earn up to 27 MOC Part 2 Medical Knowledge points in the American Board of Internal Medicine's (ABIM) Maintenance of Certification (MOC) program. Participants will earn MOC points equivalent to the amount of CME credits claimed for the course. It is the CME course provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC points.

Upon successful completion of this course, CHEST will submit your completion data to ABIM via ACCME's Program and Course Reporting System (PARS) for MOC points. To prevent delay in receiving your ABIM points, please make sure that your ABIM number, birthdate and full name in your CHEST account matches your ABIM account. Please also make sure that your ABIM account is current. After claiming CME credits, please allow 3-5 business days after claiming for credits to show in your ABIM record.

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