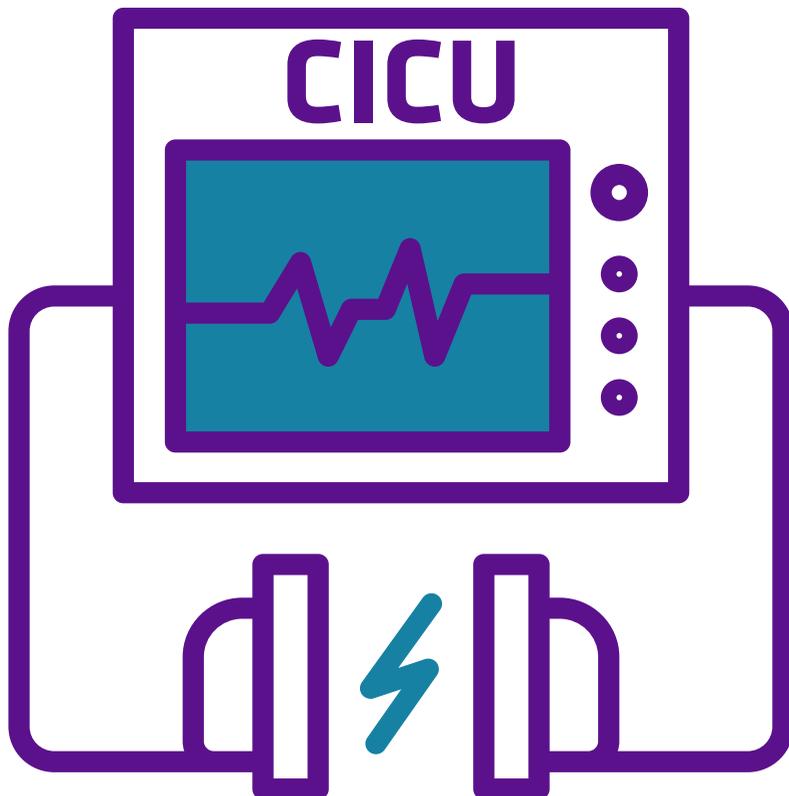


THE NYU LANGONE CRITICAL CARE CARDIOLOGY SYMPOSIUM

New York, NY + Global Live Stream

Thursday-Friday, October 13-14, 2022
nyulmc.org/critcarecardscme



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COURSE DESCRIPTION

The growing complexity, acuity, and severity of illness of patients admitted to the cardiac intensive care unit (CICU) have significantly increased in the last decades. This is reflected by changes in admitting diagnoses, non-cardiovascular complications, and patient comorbidities. Such changes have necessitated a shift in the approach to treating patients admitted to the contemporary CICU, highlighting the importance of a cardiovascular specialist with a comprehensive understanding of critical care medicine. This second annual course will provide a comprehensive, state-of-the-art approach to the management of patients with acute cardiovascular conditions who are managed in the contemporary tertiary CICU. This will include a number of topics such as cardiogenic shock, cardiac arrest, acute arrhythmias, acute aortic syndromes, pregnancy in the CICU, right ventricular shock, research in critical care cardiology (CCC), end-of-life issues, and valvular heart disease, in addition to frequently encountered non-cardiovascular conditions complicating care of the patient with cardiovascular disease. Similarly, it will provide a practical overview of the team-based multidisciplinary aspects of CCC that are key for the optimal delivery of care.

With the growing complexity of patients admitted to the CICU, this course will help fill a clear knowledge gap that will bolster the clinician's diagnostic and treatment approach. It will provide evidence-based practical recommendations for the management of these patients in the form of didactic lectures, pro/con debates, and round tables by world-renowned experts in the field. This year will include an innovative master class session where participants will learn practical tips from CCC experts as well as novel breakout sessions including a new international panel about CCC around the world.

IN-PERSON AND VIRTUAL COURSE FEES

Full Fee: \$299

Advance Practice Providers Fee*: \$199

Residents and Fellows: \$79

Simulation Education Session Fee: \$250**

** Nurses, EMTs, PAs, RTs, NPs, Etc.*

***Optional; In-person only*

Please note: This course is eligible for NYU Grossman School of Medicine Alumni discount

EDUCATIONAL OBJECTIVES

After participating in this activity, clinicians should be able to:

- Diagnose cardiogenic shock and analyze its different phenotypes including right ventricular shock and their specific management challenges and strategies
- Integrate the components of a multidisciplinary shock team and shock network, including optimization of end-organ dysfunction management as a proven strategy to improve outcomes
- Manage high-complexity conditions in the CICU including pregnancy, cardiac arrest, acute aortic syndromes, right ventricular failure, and pulmonary hypertension
- Utilize practical tips learned from CICU experts to improve outcomes and approach challenging scenarios including airway and ventilation management, sedation, hemodynamics
- Integrate into their local CICUs models critical care cardiology research, innovation, training, and organizational logistics aimed to improve quality and outcomes
- Utilize multidisciplinary approaches to manage end-of-life issues in the CICU

TARGET AUDIENCE

Practicing Cardiologists who work in a CICU, including General Cardiologists, Interventional Cardiologists, Heart Failure Cardiologists, Emergency Medicine Physicians, Anesthesiologists, Surgeons, Palliative Care Specialists, Critical Care Specialists, Nurse Practitioners, Physician Assistants, Residents, Fellows, Medical Students, EMTs, Pharmacists, Physical Therapists, Respiratory Therapists, and Nurses

REGISTRATION

nyulmc.org/critcarecardscme

After 12 pm on October 10, 2022, only onsite or virtual registration is available, provided the course has not reached capacity. Onsite registrants will incur an additional \$20 charge. Registration is non-transferable between courses.

LOCATION

Thursday, October 13, 2022: NYU Langone Health, 550 First Avenue, Alumni Hall, NY, NY 10016 and live-streamed online

Friday, October 14, 2022 (Simulation Education Session): VA Hospital, 423 23rd St, NY, NY 10010

CONTACT INFORMATION

NYU Grossman School of Medicine

Phone: 212-263-5295

Email: cme@nyulangone.org

VIRTUAL ATTENDEES

Virtual registrants will be limited to two breakout sessions; see the agenda for specific details. The Simulation Education Session is not being offered virtually.

REFUND POLICY

Submit your request for a refund of course fees more than \$75 no later than 7 days before the course start date. No refunds will be issued for cancellations or no-shows after that time. To request a refund, email cme@nyulangone.org. A \$75 administrative fee will be deducted.

COURSE PLATFORM

Course materials will be distributed electronically via a course platform. Emails regarding this platform will be sent beginning two weeks prior to the course. You will be able to access via a website or by downloading the app in order to view the course materials before, during, and after the course. The course presentations will be available for view/download/print the week of the course.

COURSE CANCELLATION POLICY

If a course is cancelled due to inclement weather, insufficient enrollment, or any other reason, NYU Grossman School of Medicine will refund registration fees in full. NYU Grossman School of Medicine will provide at least two weeks' advance notice if cancelling due to insufficient enrollment and as soon as possible in all other circumstances. NYU Grossman School of Medicine is not responsible for any non-cancellable costs incurred by the registrant.

COVID-19 PROTOCOL

We are requiring all registrants to be fully vaccinated* by the start date of the course and you will need to attest that you have proof of vaccination upon registration.

If you are not fully vaccinated* by the start of the course, you will need to attend virtually. Please note: the Optional Simulation Education Session will only be offered in-person.

**Fully vaccinated by the definition of the CDC
Please visit www.cdc.gov/coronavirus for guidelines.*

COURSE RECORDING

All fees include 30 day access to the course recording; once available, a link will be emailed to all registrants (breakouts and Simulation Education Session not included)

CME ACCREDITATION STATEMENT

The NYU Grossman School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT

The NYU Grossman School of Medicine designates this live activity for a maximum of 11.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- Plenary Sessions:
10/13: 7.75 AMA PRA Category 1 Credits™
- Simulation Education Sessions:
10/14: 3.75 AMA PRA Category 1 Credits™

NURSING CONTINUING PROFESSIONAL DEVELOPMENT CONTACT HOURS

This program will provide 10.95 continuing nursing professional development contact hours. Participants must complete a course evaluation to claim contact hours for this learning activity. The NYU Rory Meyers College of Nursing Center for Nursing Continuing Professional

Development is an accredited provider of nursing continuing professional development (NCPD) by the American Nurses Credentialing Center's Commission on Accreditation (ANCC). (Provider #P0367).

- Plenary Sessions:
10/13: 7.2 ANCC Accredited Contact Hours
- Simulation Education Sessions:
10/14: 3.75 ANCC Accredited Contact Hours

MAINTENANCE OF CERTIFICATION

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to 11.5 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 activity. It is the CME activity provider's responsibility to submit participant completion information to ACCME for the purpose of granting ABIM MOC credit.

PROVIDED BY

NYU Grossman School of Medicine

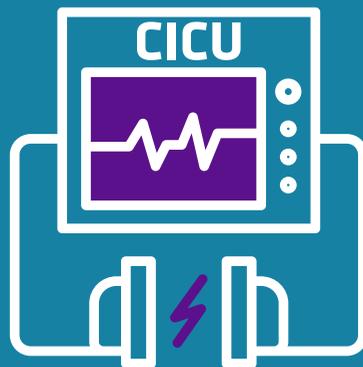


COURSE DIRECTORS

- **Carlos L. Alviar, MD**
Assistant Professor of Medicine
The Leon H. Charney Division of Cardiology
NYU Grossman School of Medicine
Director, Cardiac Intensive Care Unit
Director, Extracorporeal Membrane Oxygenation Program
Bellevue Hospital Center
- **Christopher Barnett, MD, MPH**
Professor of Medicine
Chief, Section of Critical Care Cardiology
Division of Cardiology
University of California, San Francisco
- **Samuel Bernard, MD**
Assistant Professor
The Leon H. Charney Division of Cardiology
NYU Grossman School of Medicine
- **James Horowitz, MD**
Clinical Assistant Professor
The Leon H. Charney Division of Cardiology
NYU Grossman School of Medicine
Director, Cardiac Intensive Care Unit, NYU Tisch Hospital
Co-Director, Interdisciplinary Resuscitation Committee
Assistant Program Director, Pulmonary Disease/
Critical Care Medicine Fellowship
Assistant Chief of Service, Division of Cardiology,
Department of Medicine, NYU Tisch Hospital
- **Jason N. Katz, MD, MHS**
Associate Professor of Medicine
Duke University School of Medicine
Director of Cardiovascular Critical Care for Duke
Heart and the Duke University Health System
Medical Director, Duke Cardiac Intensive Care Unit
Medical Director, Duke Mechanical Circulatory
Support Program
- **Eugene Yuriditsky, MD**
Assistant Professor
The Leon H. Charney Division of Cardiology
NYU Grossman School of Medicine
Associate Director, Cardiac Intensive Care Unit,
NYU Tisch Hospital

NURSING CONTENT PLANNERS

- **Karsten W. Drus, RN**
NYU Grossman School of Medicine
- **Mattia Gilmartin, RN, PhD, FAAN**
NYU Rory Meyers College of Nursing
- **Maureen G. Lohan-Mullens, MSN, RN, NM**
NYU Grossman School of Medicine



CONTENT PLANNERS

- **Tania Ahuja, PharmD**
NYU Grossman School of Medicine
- **Erin B. May, MD, DPhil**
Brigham and Women's Hospital
- **Andrea Elliott, MD**
University of Minnesota Medical School
- **Ann Gage, MD**
Centennial Heart Cardiovascular Consultants
- **Tracy K. Paul, MD, FACC**
Weill Cornell Medicine
- **Shashank Sinha, MD, MSc**
Inova Health

NYU GROSSMAN SCHOOL OF MEDICINE SPEAKERS

- **Tania Ahuja, PharmD**
- **Anthony Andriotis, MD**
- **Sripal Bangalore, MD, MHA**
- **Benjamin A. Bier, MD**
- **James Ciancarelli, MD**
- **Jennifer A. Cruz, DO**
- **Karsten W. Drus, RN**
- **Jennifer A. Frontera, MD**
- **Kelsey Grossman, MD**
- **Allison A. Greco, MD**
- **Kerry Hena, MD**
- **Judith S. Hochman, MD**
- **Tanjit Kaur, PA-C**
- **Norma M. Keller, MD**
- **Nicholas J. Kiefer, MD**
- **Elyse LaFond, MD**
- **Maureen G. Lohan-Mullens, RN**
- **Sam Parnia, MD, PhD**
- **Raymond A. Pashun, MD**
- **Deepak R. Pradhan, MD**
- **Harald Sauthoff, MD**
- **Roxana Sulica, MD**
- **Tatiana Weinstein, MD**

GUEST SPEAKERS

- **Benjamin Abella, MD, MPhil**
Perelman School of Medicine
- **Katrina Augustin, MD**
Emory School of Medicine
- **Jason Bartos, MD**
University of Minnesota Medical School
- **Jan Belohlavek, MD**
Charles University, Czech Republic
- **Erin B. May, MD, DPhil**
Brigham and Women's Hospital
- **Daniel Burkoff, MD, PhD**
Cardiovascular Research Foundation
- **Lorraine Carroll, MSN, RN, CCRN**
UCSF School of Medicine
- **Thomas Das, MD**
Cleveland Clinic
- **James DuCanto, MD**
Advocate Aurora Health Care
- **David Dudzinski, MD**
Massachusetts General Hospital
- **Andrea Elliott, MD**
University of Minnesota Medical School
- **Colleen Farrell, MD**
Weill-Cornell Medicine
- **Jessica Fleitman, MD**
Penn Medicine
- **Christopher Fordyce, MD**
Vancouver General Hospital, University of British Columbia
- **Ann Gage, MD**
Centennial Heart Cardiovascular Consultants
- **Diego A. Garaygordobil, MD**
Instituto Nacional de Cardiología - Ignacio Chávez
- **Alejandra Gutierrez, MD**
University of Minnesota Medical School
- **Sylvie Hall, PharmD**
Bellevue Hospital
- **Andrew R. Higgins, MD**
Cleveland Clinic
- **Steven M. Hollenberg, MD**
Emory University School of Medicine
- **Jacob C. Jentzer, MD**
Mayo Clinic
- **Benjamin B. Kenigsberg, MD**
Medstar Health
- **Konstantin Krychtiuk, MD, PhD**
Duke Clinical Research Institute
- **Anuradha Lala-Trindade, MD**
Mount Sinai School of Medicine
- **Martín Larico-Gómez, MD**
Clinica Alemana de Santiago
- **Adriana Luk, MD**
Toronto General Hospital
- **Venu Menon, MD**
Cleveland Clinic
- **Elliott Miller, MD, MHS**
Yale School of Medicine
- **David A. Morrow, MD, MPH**
Brigham and Women's Hospital
- **Alexander Papolos, MD**
Medstar Health
- **Tracy K. Paul, MD, FACC**
Weill Cornell Medicine
- **Susanna Price, MBBS, BSc, FRCP, EDICM, PhD, FFICM, FESC**
Royal Brompton Hospital
- **Penelope Rampersad, MD, MSc, FRCPC**
Cleveland Clinic
- **Christopher Root, MD**
UNM School of Medicine
- **Sunil V. Rao, MD FACC FSCAI**
Duke University School of Medicine
- **Robert Roswell, MD**
Northwell Health
- **Balimkiz Senman, MD**
Duke University School of Medicine
- **Mourad Senussi, MD**
Baylor College of Medicine
- **Shashank Sinha, MD, MSc**
Inova Health
- **Alessandro Sionis, MD**
Universitat Autònoma de Barcelona
- **Marvin Slepian, MD**
The University of Arizona
- **Michael A. Solomon, MD**
National Institutes of Health Clinical Center and the National Heart, Lung and Blood Institute
- **Jonathan St. George, MD**
Weill Cornell Medicine
- **Felipe Teran, MD**
Weill Cornell Medicine
- **Anjali Vaidya MD, FACC, FASE, FACP**
Temple University Lewis Katz School of Medicine
- **Sean Van Diepen, MD**
University of Alberta
- **Scott Weingart, MD**
Stony Brook Medicine
- **Alison S. Witkin, MD**
Massachusetts General Hospital
- **Yew Woon Chia, MBBS, EDIC, FAMS, FRCP, FACC**
Tan Tock Seng Hospital, Singapore
- **Jeong Hoon Yang, MD, PhD**
Samsung Medical Center, Sungkyunkwan University School of Medicine
- **Emily Zern, MD**
Providence Heart Institute, St Vincent Medical Center

AGENDA (all times in EDT)

THURSDAY, OCTOBER 13, 2022

7:30am **Registration and Continental Breakfast**

8:00 **Welcome and Introduction**
Course Directors: Carlos L. Alviar, MD, James Horowitz, MD and Jason N. Katz, MD, MHS

SESSION 1: CARIOGENIC SHOCK IN THE CICU

8:15 **Case of Cardiogenic Shock: Part 1**
Kelsey Grossman, MD

8:18 **Initial Approach in the CICU: Risk Stratification and Practical Tips**
Erin B. May, MD, DPhil

8:27 **Case of Cardiogenic Shock: Part 2**
Kelsey Grossman, MD

8:30 **Activating the Cath Lab: It's not just Angiography**
Susanna Price, MBBS, BSc, FRCP, EDICM, PhD, FFCM, FESC

8:39 **Case of Cardiogenic Shock: Part 3**
Kelsey Grossman, MD

8:42 **Matching Patient Hemodynamics with MCS device**
Daniel Burkoff, MD, PhD

8:51 **Case of Cardiogenic Shock: Part 4**
Kelsey Grossman, MD

8:54 **Playing Nice in the Sandbox: Partnering with Other Specialties in the Care of the Shock Patient**
David A. Morrow, MD, MPH

9:03 **Question and Answer Panel Discussion**
Co-Chairs: Judith S. Hochman, MD, Sunil V. Rao, MD, FACC, FSCAI, and Sean Van Diepen, MD

SESSION 2: CARDIAC ARREST: PERSPECTIVES ON MANAGEMENT

9:15 **Case of Cardiac Arrest: Part 1**
Nicholas J. Kiefer, MD

9:18 **Optimizing Resuscitation during Cardiac Arrest**
Felipe Teran, MD

9:27 **Case of Cardiac Arrest: Part 2**
Nicholas J. Kiefer, MD

9:30 **Practical Tips to Improve Outcomes after Cardiac Arrest**
Benjamin B. Kenigsberg, MD

9:39 **Case of Cardiac Arrest: Part 3**
Nicholas J. Kiefer, MD

9:42 **VT Storm in CICU: Beyond Amiodarone and Shocks**
Alejandra Gutierrez, MD

9:51 **Case of Cardiac Arrest: Part 4**
Nicholas J. Kiefer, MD

9:54 **Neuroprognostication after Cardiac Arrest: What Matters?**
Jennifer A. Frontera, MD

10:03 **Question and Answer Panel Discussion**
Co-Chairs: Benjamin Abella, MD, MPhil, Norma M. Keller, MD and Sam Parnia, MD, PhD

10:15 **Morning Break**

SESSION 3: THE CICU IN ACTION: PRACTICAL TIPS FROM THE EXPERTS

10:45 **Sedation and Analgesia in the CICU**
Sylvie Hall, PharmD

10:54 **Cardiopulmonary Physiology: Ventilator and Hemodynamics Interactions**
Carlos L. Alviar, MD

11:03 **Non-Cardiac POCUS: The CICU Must Know**
Eugene Yuriditsky, MD

11:12 **Pregnancy in the CICU: Oh Baby!**
Tracy K. Paul, MD, FACC

11:21 **Acute Aortic Syndromes: What You Need to Know**
Jacob C. Jentzer, MD

11:30 **Question and Answer Panel Discussion**
Co-Chairs: Tania Ahuja, PharmD, Ann Gage, MD and Venu Menon, MD

11:45 **Lunch Break**

SESSION 4: KEYNOTE SPEAKER

12:45pm **Pressing Issues and Keys to the Maturation of the Field**
Jason N. Katz, MD, MHS

SESSION 5: THE RIGHT VENTRICLE IN CRISIS: "MAKING IT RIGHT FOR THE RV"

1:15 **A Case of RV Failure**
Tatiana Weinstein, MD

1:20 **Pathophysiology of Right Ventricular Failure**
Anjali Vaidya MD, FACC, FASE, FACP

1:30 **Management of the Critically Ill Pulmonary Hypertension Patient**
Michael A. Solomon, MD

- 1:40 **Pulmonary Artery Obstruction: PE and CTEPH**
James Horowitz, MD
- 1:50 **MCS Devices: Last Resort for the Failing RV**
Penelope Rampersad, MD, MSc, FRCPC
- 2:00 **Question and Answer Panel Discussion**
Co-Chairs: Christopher Barnett, MD, MPH, and Roxana Sulica, MD

SESSION 6: COFFEE WITH THE EXPERTS: "HOW I BUILT THIS?"

- 2:15 **Cardiac Intensive Care Unit**
Moderator: Steven M. Hollenberg, MD
Panelists: Christopher Barnett, MD, MPH, Lorraine Carroll, MSN, RN, CCRN, Karsten W. Drus, RN, Tanjit Kaur, PA-C, Maureen G. Lohan-Mullens, RN
- 2:43 **Pulmonary Embolism Response Team**
Moderator: Jennifer A. Cruz, DO
Panelists: David Dudzinski, MD, James Horowitz, MD, Anjali Vaidya MD, FACC, FASE, FACP, Alison S. Witkin, MD
- 3:11 **Extracorporeal CPR Program**
Moderator: Carlos L. Alviar, MD
Panelists: Sripal Bangalore, MD, MHA, Jason Bartos, MD, Jan Belohlavek, MD, Andrea Elliott, MD, Christopher Root, MD

3:39 **Afternoon Break**

SESSION 7: BREAKOUT SESSIONS (SELECT ONE)

- 4:15 **Critical Care Challenges: Conversation with the Experts***
Moderator: Raymond A. Pashun, MD
Panelists: Samuel Bernard, MD, Allison A. Greco, MD, Eugene Yuriditsky, MD, Emily Zern, MD
Location: Farkas Auditorium
- Developing a Research Program in Your CICU**
Moderator: Shashank Sinha, MD, MSc
Panelists: Erin B. May, MD, DPhil, Andrea Elliott, MD, Judith S. Hochman, MD, Venu Menon, MD, Elliott Miller, MD, MHS
Location: Alumni Hall A
- CCC Training, Certification and Professional Societies**
Moderator: Robert Roswell, MD
Panelists: Benjamin A. Bier, MD, Jessica Fleitman, MD, Christopher Fordyce, MD, Ann Gage, MD, Andrew R. Higgins, MD, Alexander Papolos, MD
Location: Alumni Hall B
- Social Media in CCC Education, Research and Professional Advancement**
Moderators: Balimkiz Senman, MD and Scott Weingart, MD
Panelists: Katrina Augustin, MD, Thomas Das, MD, Colleen Farrell, MD, Anuradha Lala-Trindade, MD, Mourad Senussi, MD
Location: Science Building 103

Transcontinental Partnership: CCC Around the World*

- Moderators:** Carlos L. Alviar, MD and Adriana Luk, MD
Panelists: Diego A. Garaygordobil, MD, Yew Woon Chia, MBBS, EDIC, FAMS, FRCPC, FACC, Alejandra Gutierrez, MD, Konstantin Krychtiuk, MD, PhD, Martín Larico-Gómez, MD, Alessandro Sionis, MD, Jeong Hoon Yang, MD
Location: Virtual Only

*These breakouts are available to virtual attendees

SESSION 8: CLOSING REMARKS SESSION

- 5:15 **How to Innovate in Today's Cardiac Intensive Care Unit**
Marvin Slepian, MD
- 5:30 **Closing Remarks**
Course Directors: Christopher Barnett, MD, MPH, Samuel Bernard, MD, Eugene Yuriditsky, MD
- 5:35pm **Adjourn**

FRIDAY, OCTOBER 14, 2022

SIMULATION EDUCATION SESSION (OPTIONAL) LIMITED AVAILABILITY

- 7:30am **Registration and Continental Breakfast**
- 8:00 **Simulated Cases in Critical Care Cardiology**
Facilitators: Deepak R. Pradhan, MD, Carlos L. Alviar, MD, Anthony Andriotis, MD, Samuel Bernard, MD, James Horowitz, MD, Jonathan St. George, MD, Tatiana Weinstein, MD
- 9:30 **Break**
- 9:45 **Procedural Simulations Hands-on Stations: Lung Ultrasound, Transvenous Pacemaker, Pericardiocentesis**
Facilitators: Raymond A. Pashun, MD, Christopher Barnett, MD, MPH, Benjamin A. Bier, MD, James Ciancarelli, MD, James DuCanto, MD, Harald Sauthoff, MD, Eugene Yuriditsky, MD
- 11:15 **Advanced Airway Skills: Intubation, Bronchoscopy and Suction Assisted Laryngoscopic Airway Decontamination, Cric Station**
Facilitators: Christopher Barnett, MD, MPH, Carlos L. Alviar, MD, Samuel Bernard, MD, Benjamin A. Bier, MD, James Ciancarelli, MD, James DuCanto, MD, Kerry Hena, MD, James Horowitz, MD, Elyse LaFond, MD, Raymond A. Pashun, MD, Deepak R. Pradhan, MD, Christopher Root, MD, Harald Sauthoff, MD, Jonathan St. George, MD, Eugene Yuriditsky, MD
- 12:00pm **Adjourn**