

Scientific Program



Advances in
Critical
Care

2021

Webcast Live

October 14-15

Baylor
College of
Medicine

CONFERENCE ORGANIZERS



Subhasis Chatterjee, M.D.
Assistant Professor of Surgery
Baylor College of Medicine

Director, Thoracic Surgical ICU & ECMO Program
Baylor St. Luke's Medical Center



Michele Loor, M.D.
Assistant Professor of Surgery
Baylor College of Medicine

Medical Director, Surgical Intensive Care Unit
Baylor St. Luke's Medical Center



James P. Herlihy, M.D.
Professor of Medicine-Pulmonary
Baylor College of Medicine

Chief of Critical Care
Baylor St. Luke's Medical Center



José L. Díaz-Gómez, M.D.
Section Chief, Cardiothoracic, Circulatory Support,
and Transplant Critical Care

Director, Critical Care Echocardiography and Point
of Care Ultrasonography
Division of Cardiovascular Anesthesia and Critical
Care Medicine

Medical Director,
Cardiovascular Intensive Care Service
Baylor St. Luke's Medical Center



Holly Clayton, M.P.A.S., PA-C
Assistant Professor of Surgery
Director of Advanced Clinical Practitioners
and Clinical Services
Baylor College of Medicine



Amy Westwick Butcher, PA-C
Instructor in Medicine
Department of Pulmonary, Critical Care,
and Sleep Medicine
Baylor College of Medicine

ORGANIZING COMMITTEE

Elaine Allbritton
Ashley Benning
Ronneta Etter
Brenda Jones

Stephanie Jackson
Scott Holmes
Amanda May
Dr. Todd K. Rosengart

ABOUT THE CONFERENCE

The third annual Advances in Critical Care Conference brings together all members of multidisciplinary teams that care for critically ill patients, both surgical and medical, on a virtual platform. This conference provides an opportunity to connect with colleagues, network and collaborate with critical care experts around the country, and explore state-of-the-art tools, technologies, and care pathways. Highlighting the broad critical care necessary for COVID-19 management there will be engaging speakers and panel sessions on sepsis, ARDS, trauma, ECMO, shock, acute kidney injury, and other cutting-edge topics.

TARGET AUDIENCE

This course is designed for physicians, physician assistants, nurse practitioners, registered nurses, and other medical care providers who must maintain the state-of-the-art knowledge required to care for medical and surgical critical care patients.

LEARNING OBJECTIVES

At the conclusion of the activity the participant should be able to:

- Use the skills gained to implement more efficient/accurate diagnosis processes and treatment techniques to provide improved care for critically ill patients.
- Utilize ECMO, percutaneous mechanical support devices, REBOA, and other tools in the management of critically ill patients.

ACCREDITATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Texas Heart Institute and Baylor College of Medicine. Texas Heart Institute is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT DESIGNATION

Texas Heart Institute designates this live activity for a maximum of **12 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

MOC

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to **12.00 Medical Knowledge MOC 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.

NURSES

CHI St. Luke's Health Baylor St. Luke's Medical Center is approved as a provider of nursing continuing professional development by the Louisiana State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. LSNA Provider No. 4002068.

Up to **5.5 contact hours** will be awarded for successful completion of this activity. To receive a certificate of completion with awarded contact hours, you are required to sign-in at registration each day, attend the entire program or partially for topics listed on the tracker and return the completed evaluation form each day.

SCIENTIFIC PROGRAM

Thursday, Oct. 14, 2021

7:30-7:45 am Welcome
Dr. Subhasis Chatterjee

Session I: One Year into COVID-19: Then and Now

7:45-8:00 am The Delta Variant, Vaccines, and Where We Go From Here - Dr. Peter Hotez

8:00-8:10 am Q & A with Dr. Peter Hotez

8:10-8:20 am Updated Surviving Sepsis Guidelines for COVID-19 - Dr. Laura Evans

8:20-8:30 am What's on the Horizon for COVID-19 - Dr. Lavannya Pandit

8:30-8:40 am Myocardial Injury and Sequelae after COVID-19 - Dr. Aniket Rali

8:40-9:00 am Panel Discussion
Moderators: Dr. James Herlihy and Dr. Ivan Rosas

Session II: Infection and Sepsis

9:00-9:10 am Targeted Vasopressor Strategies in Septic Shock - Dr. Ashish Khanna

9:10-9:20 am How I Use Procalcitonin in the ICU - Dr. Sergio Trevino

9:20-9:30 am Resistant Pathogens: What Keeps Me Up at Night - Dr. Galant Chan

9:30-9:40 am Vitamin C and Thiamine: Fact or Fiction - Dr. Chris Morgan

9:40-9:55 am Panel Discussion
Moderators: Dr. Jose Diaz-Gomez and Dr. Fatima Adhi

9:55-10:00 am **Break and Exhibits**



Session III: ARDS

10:00-10:10 am The Role of Noninvasive Ventilation - Dr. Jairo Barrantes

10:10-10:20 am Predicting the Difficult Intubation - Dr. Edward Yang

10:20-10:35 am The Role of Corticosteroids in ARDS in 2021 - Dr. Jesus Villar

10:35-10:45 am How Low is Too Low? Refractory Hypoxemia Despite ECMO - Dr. JW Awori Hayanga

10:45-11:00 am Panel Discussion
Moderators: Dr. Kalpalatha Guntupalli and Dr. Sunjay Devarajan

Session: IV: Acute Kidney Injury

1:00-1:10 pm Hyponatremia Evaluation and Management in the ICU: Causes, Diuretics, Vaptans - Dr. Rajeev Raghavan

1:10-1:20 pm Renal Biomarkers for Early Detection of AKI - Dr. Alexander Zarbock

1:20-1:30 pm Cardiorenal Syndrome: Updated Management - Dr. Jacob Jentzer

1:30-1:40 pm AKI after Cardiac Surgery: Prevention in the ICU - Dr. Daniel Engelman

1:40-1:55 pm Panel Discussion
Moderators: Dr. Subhasis Chatterjee and Amy Butcher

1:55-2:00 pm **Break and Exhibits**

Concurrent Session V: Breakout Session 1 (Ultrasound: Expert Panel)

2:00-2:10 pm Ultrasound: Must Know POCUS ICU Cases
- Dr. Jose Diaz-Gomez

Open Discussion and Debate
2:10-2:40 pm - Dr. Mourad Senussi
- Dr. Michael Lanspa
- Dr. Sara Nikravan

2:40-2:55 pm Q and A

Concurrent Session V: Breakout Session 2 (End-Stage Heart and Lung Disease)

2:00-2:10 pm ECMO Bridging to Heart Transplantation
- Dr. Anju Bhardwaj

2:10-2:20 pm Experience with Lung Transplant for
COVID-19 - Dr. Gabriel Loor

2:20-2:30 pm RV Failure after LVAD Implantation:
Medical vs. MCS Options
- Dr. Andrew Civitello

2:30-2:40 pm Approach to the Pulmonary Infiltrate after
Lung Transplantation: Pneumonia vs. Graft
Dysfunction - Dr. Gloria Li

2:40-2:55 pm Discussion
Moderators: Dr. Erik Suarez and Dr. Bindu Akkanti

Concurrent Session VI: Breakout Session 1 (Advanced Ventilator Management: Expert Panel)

3:00-3:15 pm Demo Video - Dr. David Wu

Open Discussion and Debate
3:15-3:45 pm - Dr. Richard Oeckler
- Dr. Sarina Sahetya
- Dr. Bo Soo Kim

3:45-3:55 pm Q and A

Concurrent Session VI: Breakout Session 2 (Family Engagement)

3:00-3:10 pm Family Engagement: On Rounds and
Virtually - Amy Butcher

3:10-3:20 pm After COVID, Post ICU Recovery
- Dr. Dharani Narendra

3:20-3:30 pm Optimal Use of Palliative Care with
Families - Dr. Eberechi Nwogu-Onyempka

3:30-3:40 pm When Doctors and Families Disagree:
Legal and Ethical Considerations
- Dr. Savitri Fedson

3:40-3:55 pm Discussion
Moderators: Dr. Michele Loor and Dr. Diana Guerra

Friday, Oct. 15, 2021

7:55-8:00 am Welcome

Session VII: Cardiac Conundrums

8:00-8:10 am A-Fib in the ICU: Rate vs. Rhythm Control: Antithrombotic Therapies
- Dr. Mourad Senussi

8:10-8:20 am Cardiogenic Shock: The Role for Early MCS - Dr. Marwan Jumean

8:20-8:30 am Demand Ischemia in the ICU: Overdiagnosed or Undertreated?
- Dr. Greg Barsness

8:30-8:40 am Hypertensive Emergencies: Latest Advances - Dr. Gregory Marhefka

8:40-8:55 am Panel Discussion
Moderators: Dr. Lola Xie and Dr. Stephanie Coulter

8:55-9:00 am **Break and Exhibits**

Session VIII: GI Dilemmas

9:00-9:10 am Management of Variceal Bleeding
- Dr. Kalpesh Patel

9:10-9:20 am State-of-the-Art Management of Necrotizing Pancreatitis
- Dr. George Van Buren II

9:20-9:27 am Lower GI Bleeding: Gastroenterologist Perspective - Dr. Reena Chokshi

9:27-9:34 am Lower GI Bleeding: Interventional Radiologist Perspective - Dr. Milin Patel

9:34-9:40 am Lower GI Bleeding: Colorectal Surgeon Perspective - Dr. Yesenia Rojas-Khalil

9:40-9:55 am Panel Discussion
Moderators: Dr. Celia Robinson Ledet and Holly Clayton

9:55-10:00 am **Break and Exhibits**

Session IX: Quality Improvement in the ICU

10:00-10:10 am How to measure QI in the ICU
- Dr. Peter Wong

10:10-10:20 am How to do a QI Project - Alex Brinkley

10:20-10:30 am Nursing Initiatives in QI - Mila Sprouse

10:30-10:40 am Staffing Challenges in the ICU
- Marilia Diaz Correa

10:40-11:00 am Panel Discussion
Moderators: Megan Fischer and Dr. Kartik A. Valluri

11:00-12:45 pm **Break and Exhibits**

Plenary Session X: How the System Held Up

12:45-1:00 pm COVID-19: The 4 P's for What We Did Well and Could Have Done Better
- Dr. Greg Martin

1:00-1:10 pm The TMC View - A Year Later
- Liz Youngblood

1:10-1:25 pm The New Normal: Critical Care after COVID-19 - Dr. Lewis Kaplan

1:25-1:40 pm Understanding Decision Making in Critical Care - Dr. Geoffrey Lighthall

1:40-1:55 pm Panel Discussion
Moderator: Dr. Subhasis Chatterjee, Ashley McPhail, and Isaac Middleton

Concurrent Session XI: Breakout Session 1 (The APP in the Multidisciplinary Team)

- 2:00-2:10 pm Assembling a Multidisciplinary Critical Care Team - Dr. Michele Loor
- 2:10-2:20 pm Advancements and Challenges in the Multidisciplinary Critical Care Team Model - April Kapu
- 2:20-2:30 pm The First Steps: APC Early Training and Onboarding Optimization - Kristin Marsack
- 2:30-2:40 pm The Next Steps: APC Career Advancement Pathways - Holly Clayton
- 2:40-2:55 pm Panel Discussion
Moderators: Amy Butcher and Robert Webster

Concurrent Session XI: Breakout Session 2 (Updates in Trauma)

- 2:00-2:10 pm Blunt Cerebral Vascular Injury: Latest Advances - Dr. Chad Wilson
- 2:10-2:20 pm Blood Product Concentrates in Traumatic Shock - Dr. Bryan Cotton
- 2:20-2:30 pm Mass Casualty Disaster Preparedness - Dr. Ira Nemeth
- 2:30-2:40 pm Non-Opioid Pain Management in Trauma - Dr. John Harvin
- 2:40-2:55 pm Panel Discussion
Moderators: Dr. Catherine Seger and Dr. R. Mario Vera
- 2:55-3:00 am **Break and Exhibits**

Concurrent Session XII: Breakout Session 1 (Mind and Brain)

- 3:00-3:10 pm Delirium - Dr. Rakesh Arora
- 3:10-3:20 pm The Role of Neuromonitoring in the ICU - Dr. Chethan PV Rao
- 3:20-3:30 pm Ketamine in the ICU - Dr. Michael Grant
- 3:30-3:40 pm Targeted Temperature Management - Dr. Rahul Damani
- 3:40-3:55 pm Panel Discussion
Moderators: Dr. Jose Diaz-Gomez
and Dr. Gloria Rodriguez-Vega

Concurrent Session XII: Breakout Session 2 (Optimizing Nutrition: Rapid Fire Presentations)

- 3:00-3:08 pm Immunonutrition: Is it Ready for Primetime? - Dr. Robert Southard
- 3:08-3:16 pm Nutrition in the Early Acute Phase of Critical Illness: To Famish or Fulfill - Dr. Jayshil Patel
- 3:16-3:24 pm Gastric vs. Enteral Feeding: When Does it Matter - Dr. Jeremy Ward
- 3:24-3:32 pm The Case for Preoperative Nutrition - Dr. Subhasis Chatterjee
- 3:32-3:40 pm Is TPN Underused? - Meagan Horne
- 3:40-3:55 pm Panel Discussion
Moderators: Dr. Louisa Chiu and Cheldun Neubauer
- 3:55-4:00 pm **Closing Remarks**

Faculty List

Dr. Peter Hotez
Dr. Laura Evans
Dr. Lavannya Pandit
Dr. Aniket Rali
Dr. Pat Herlihy
Dr. Ivan Rosas
Dr. Ashish Khanna
Dr. Sergio Trevino
Dr. Galant Chan
Dr. Chris Morgan
Dr. Fatima Adhi
Dr. Jairo Barrantes
Dr. Edward Yang
Dr. Jesus Villar

Dr. Kalpalatha Guntupalli
Dr. Sunjay Devarajan
Dr. Rajeev Raghavan
Dr. Alexander Zarbock
Dr. JW Awori Hayanga
Dr. Jacob Jentzer
Dr. Daniel Engelman
Amy Butcher, PA
Dr. Jose Diaz-Gomez
Dr. Mourad Senussi
Dr. Michael Lanspa
Dr. Sara Nikravan
Dr. Anju Bhardwaj
Dr. Gabriel Loor MD
Dr. Andrew Civitello
Dr. Gloria Li
Dr. Erik Suarez
Dr. Bindu Akkanti
Dr. David Wu
Dr. Richard Oeckler
Dr. Sarina Sahetya
Dr. Bo Soo Kim
Dr. Dharani Narendra
Dr. Eberechi Nwogu-Onyempka
Dr. Savitri Fedson

Baylor College of Medicine, Texas Children's Hospital
Univ. Washington - Seattle
Baylor College of Medicine
Vanderbilt University
Baylor College of Medicine, Baylor St. Luke's
Baylor College of Medicine
Wake Forest School of Medicine
Baylor College of Medicine
Baylor College of Medicine
Baylor College of Medicine
Baylor College of Medicine
Baylor College of Medicine
Baylor St. Luke's Medical Center
Hospital Universitario Dr. Negrin, Las Palmas de Gran
Canaria, Spain, CIBER de Enfermedades Respiratorias,
Instituto de Salud Carlos III, Madrid, Spain.
Baylor College of Medicine
Baylor College of Medicine
HCA Healthcare
University Hospital Munster
West Virginia University School of Medicine
Mayo Clinic
Univ Mass Baystate
Baylor College of Medicine
Baylor College of Medicine
Baylor St. Luke's Medical Center
University of Utah
University of Washington Medical Center
The University of Texas, Memorial Hermann Hospital
Baylor College of Medicine
Baylor College of Medicine
Baylor College of Medicine
Houston Methodist Hospital
The University of Texas, Memorial Hermann Hospital
Baylor College of Medicine
Mayo Clinic
Johns Hopkins School of Medicine
Johns Hopkins School of Medicine
Baylor College of Medicine
Baylor St. Luke's Medical Center
Baylor College of Medicine

Dr. Michele Loor
Dr. Diana Guerra
Dr. Marwan Jumean
Dr. Greg Barsness
Dr. Gregory Marhefka
Dr. Lola Xie
Dr. Stephanie Coulter
Dr. Kalpesh Patel
Dr. George Van Buren
Dr. Reena Chokshi
Dr. Milin Patel
Dr. Yesenia Rojas-Khalil
Dr. Cecilia Robinson Ledet
Holly Clayton, PA
Dr. Peter Wong
Dr. Mila Sprouse
Alex Brinkley, NP
Marilia Diaz Correa

Megan Fischer
Sri Kartik Anand Valluri
Dr. Greg Martin
Liz Youngblood
Dr. Lewis Kaplan
Dr. Geoffrey Lighthall
Dr. Subhasis Chatterjee
Dr. Kartik A Valluri
April Kapu, DNP
Kristin Marsack, PA
Robert Webster, RN
Dr. Chad Wilson
Dr. Bryan Cotton
Dr. Ira Nemeth
Dr. John Harvin
Dr. Rakesh Arora
Dr. Chethan PV Rao
Dr. Michael Grant
Dr. Rahul Damani
Dr. Gloria Rodriguez-Vega
Dr. Robert Southard
Dr. Jayshil Patel
Dr. Jeremy Ward
Meagan Horne, RD
Dr. Louisa Chiu
Cheldun Neubauer, RD

Baylor College of Medicine
Baylor St. Luke's Medical Center
The University of Texas, Hermann Memorial Hospital
Mayo Clinic
Thomas Jefferson University
Baylor College of Medicine
Baylor College of Medicine
Baylor College of Medicine
Baylor College of Medicine
Baylor College of Medicine
Baylor St. Luke's Medical Center
Baylor College of Medicine
MD Anderson Cancer Center
Baylor College of Medicine
CHI St. Luke's Health
Common Spirit
Baylor College of Medicine
Hospital Auxilio Mutuo / Sacred Heart University,
San Juan Puerto Rico
Common Spirit
Baylor St. Luke's Medical Center
Emory University
Baylor St. Luke's Medical Center
Hospital of the University of Pennsylvania
Stanford University School of Medicine
Baylor College of Medicine
Baylor College of Medicine
Vanderbilt University
Texas Children's Hospital
Baylor St. Luke's Medical Center
Baylor College of Medicine
UT Health
Ben Taub Hospital
The University of Texas, Memorial Hermann Hospital
St. Boniface Hospital
Baylor St. Luke's Medical Center
Johns Hopkins Hospital
Baylor College of Medicine
University of Puerto Rico School of Medicine
Baylor College of Medicine
Medical College of Wisconsin
Baylor College of Medicine
Common Spirit
Michael E. DeBakey VA Medical Center
Baylor St. Luke's Medical Center

Advances in Critical Care Sponsors

Sponsored by
Baylor College of Medicine

This activity has been planned to be well-balanced, objective, and scientifically rigorous. Information and opinions offered by speakers represent their viewpoints. Conclusions drawn by the audience should be derived from careful consideration of all available scientific information.

Texas Heart Institute, Office of Continuing Medical Education, along with Baylor College of Medicine, gratefully acknowledges the following companies for providing educational grant support for this activity:

Educational Grants
La Jolla

Support for this conference has been provided in part by the following exhibitors, symposia and workshop sponsors:

Exhibitors
Abiomed
Acacia Pharma
Astra Zeneca
AtriCure
Chiesi USA, Inc.
La Jolla

Baylor
College of
Medicine®