

Scientific Program



Advances in
Critical
Care

2024

October 11-12

Baylor
College of
Medicine

MICHAEL E. DeBAKEY
DEPARTMENT OF
SURGERY



Baylor St. Luke's
Medical Center



THE TEXAS HEART INSTITUTE®

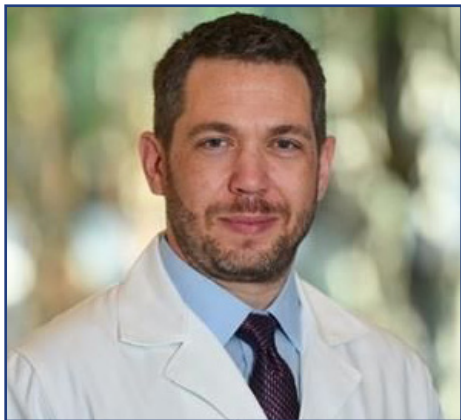
CONFERENCE ORGANIZERS



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

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

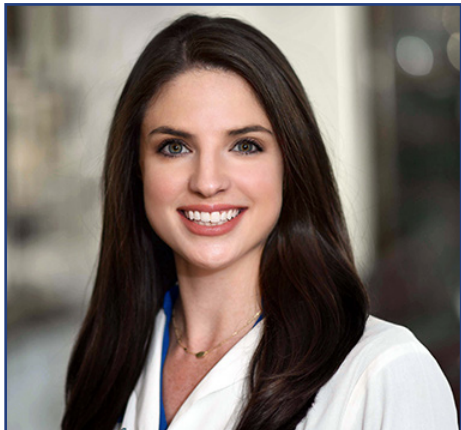
*Conference Co-Chair



Christopher Howard, M.D.
Assistant Professor
Pulmonary, Critical Care and Sleep Medicine
Baylor College of Medicine

Medical Director, Respiratory Care
Baylor St. Luke's Medical Center

*Conference Co-Chair



Holly Clayton, M.P.A.S., PA-C
Assistant Professor of Surgery

Director of Advanced Clinical Practitioners
and Clinical Services
Baylor College of Medicine



Jesmi Jacob MSN, RN, CCRN
Registered Nurse
Baylor St. Luke's Medical Center



José L. Díaz-Gómez, M.D., MAS*
Adjunct Professor of Anesthesiology
Baylor College of Medicine

Enterprise Vice-Chief
Integrated Hospital Care Institute
Cleveland Clinic Health System
Abu Dhabi, United Arab Emirates

*Conference Co-Chair



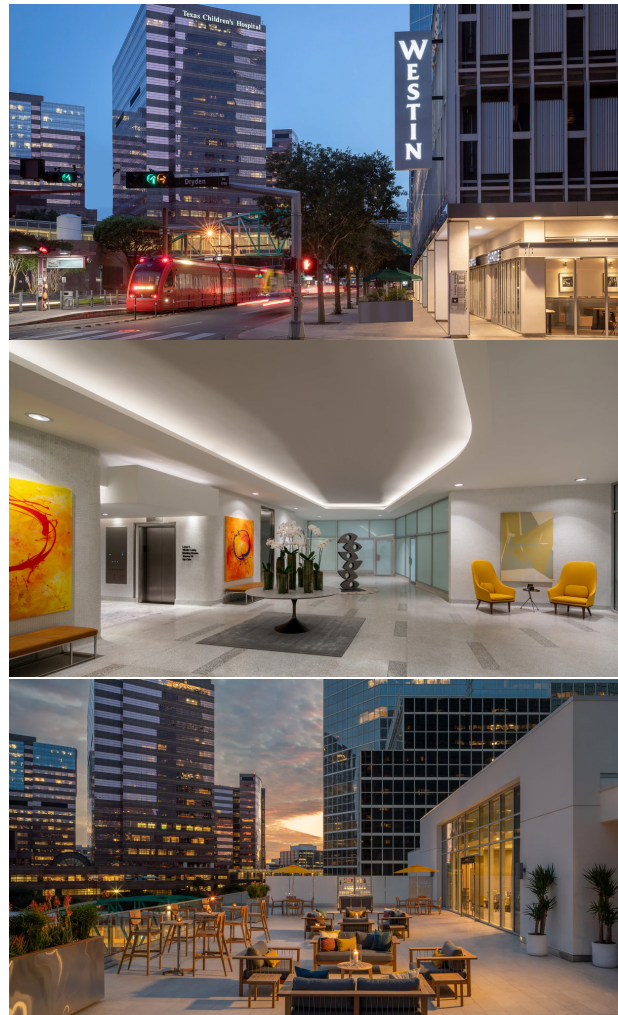
Jennifer M. Leonard, M.D., Ph.D.
Assistant Professor of Surgery
Washington University School of Medicine-St. Louis



Amy Westwick Butcher, PA-C
Physician Assistant
Cardiothoracic Surgery
South Shore University Hospital
Northwell Health

ORGANIZING COMMITTEE

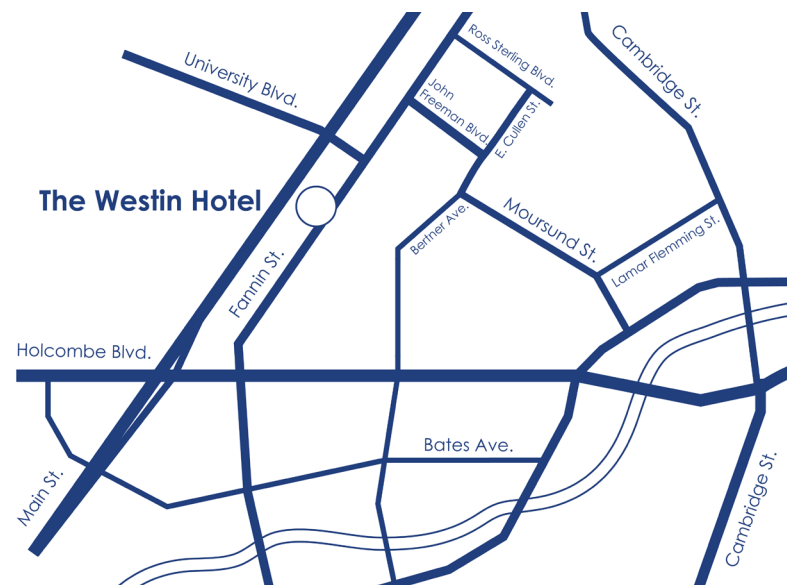
Jordan Lockhart
Sharon Galloway
Scott Holmes
Brenda Jones



VENUE

The Westin Houston Medical Center/Museum District

1709 Dryden Road
Houston, Texas 77030
(713) 730-2404



ABOUT THE CONFERENCE

The 5th Annual Advances in Critical Care Conference will feature speakers from the Texas Medical Center and around the country discussing all aspects of critical care. Topics will include the latest advances in sepsis, acute respiratory distress syndrome (ARDS), shock, trauma, and neurocritical care. Join us for cutting-edge discussions on extracorporeal membrane oxygenation (ECMO), mechanical circulatory support, and neuromonitoring. Breakout sessions will focus on ICU systems, team dynamics, and much more. A number of advances are made in the broad field of critical care each year. The conference presents the opportunity to hear from experts in the field, discuss the developments with informed panelists, and allow for meaningful audience engagement, providing an opportunity for improved patient care. We will examine technological advances that will soon become routine practice.

This multidisciplinary and multispecialty symposium allows the entire critical care team and care network to engage in a two-day meeting to discuss these topics. We hope to offer clinicians a better understanding of why they do what they do, evidence-based presentations to modify their existing practice, a collaborative network to share and engage in ideas, and a thirst to acquire new knowledge to improve patient care at their institutions.

CME Information

Learning Objectives

At the conclusion of this symposium, the participant should be able to:

- Demonstrate improved understanding on the latest advances in sepsis management.
- Recognize and provide fundamental management for hemoptysis with improved ability to coordinate for higher level interventions.
- Identify patients with ARDS who are candidates for advanced therapies and interventions.
- Recognize patients in cardiogenic shock who need mechanical circulatory support.
- Identify obstetrical patients in need of critical care and the fundamentals of management.
- Recognize biomarkers highlighting early identification of acute kidney injury.

Target Audience

The symposium has been designed for critical care intensivists from all disciplines, pulmonologists, cardiologists, surgeons, interventionalists, perfusionists; family and general practitioners; nurses, nurse practitioners and physician assistants specializing in critical care, cardiology, surgery, endocrinology, neurology, hepatology, transplantation, and obstetrics/gynecology.

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 The Texas Heart Institute and Baylor College of Medicine. The Texas Heart Institute is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation

The Texas Heart Institute designates this live activity for a maximum of **18.50 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

ABIM MOC Credit

Successful completion of this CME activity, which includes participation in the evaluation component, enables the participant to earn up to **18.50 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. Successful completion is a passing grade of 70% on the assessment in the CME evaluation.

DEADLINE: The deadline to complete the MOC section of the CME evaluation is 2 weeks after the day of the symposium.

Ethics

This activity has been designated by The Texas Heart Institute for **1.00 hour** of education in medical ethics and/or professional responsibility.

CEU Information

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 Approver Unit, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. LSNA Provider No. 4002068. Nurses can receive up to **16.75 CNE**.

SCIENTIFIC PROGRAM

Friday, Oct. 11, 2024

7:00-7:30am Registration and Breakfast

7:30-7:45am Welcome - Subhasis Chatterjee, M.D.

Session I: Latest Advances in Sepsis

Moderators: Christopher Howard, M.D.
and Sergio Trevino Castillo, M.D.

7:45-7:55am Two Sepsis Trials From
2023 You Should Know
Christina Kao, M.D.

7:55-8:05am Status of Steroids for Sepsis
- Latest Evidence
Deepa Gotur, M.D.

8:05-8:15am Vasopressor Management in Septic Shock:
Escalation Strategies
Patrick Wieruszewski, Pharm.D. R.Ph.

8:15-8:25am Next Generation Biomarkers in Sepsis
Fatima Adhi M.D.

8:25-8:35am Sepsis Guidelines: Where We Go Next
Laura Evans, M.D.

8:35-8:55am Panel Discussion

Session II: GI and Nutrition

Moderators: Yesenia Rojas-Khalil, M.D.
and Muhammad Hayat Syed, M.D.

9:00-9:10am Interventions on the Gut Microbiota in
Critical Care
Jennifer Leonard, M.D., Ph.D.

9:10-9:20am Esophageal Perforation Non-Surgical
Management
Shawn Groth, M.D.

9:20-9:30am ICU Considerations in the Bariatric Patient
Juliet Holder-Haynes, M.D.

9:30-9:40am Latest Advances in the Management of
Acute Liver Failure
Risë Stribling, M.D.

9:40-10:00am Panel Discussion

10:00-10:15am Break and Exhibits

Session III: Pulmonary Emergencies

Moderators: Philip Alapat, M.D. and Lorraine Cornwell, M.D.

10:15-10:25am Massive Hemoptysis
R. Taylor Ripley, M.D.

10:25-10:35am Clinical Pearls in the Management of
Asthma/COPD Exacerbation
Nicola Hanania, M.D., M.S.

10:35-10:45am Latest in Pneumothorax
Management
Donald Lazarus, M.D.

10:45-10:55am Prostacyclin vs Inhaled Nitric Oxide
Kamrouz Ghadimi, M.D., MHSc

10:55-11:15am Panel Discussion

Session IV: Healthcare Systems

Moderators: Laura Evans, M.D. and Subhasis Chatterjee, M.D.

11:15-11:25am How Do We Define Value in
Healthcare?
Bradley Lembcke, M.D., MBA

11:25-11:35am The Lean ICU
Sergio Zanotti-Cavazzoni, M.D.

11:35-11:45am The Future of the ICU is Green
Faisal Masud, M.D.

11:45-11:55am Cyberthreats in Healthcare:
The System Responds
Syed Raza, M.D.

11:55-12:15am Panel Discussion

12:15-1:10pm Keynote Speaker and Lunch
"A Fresh Perspective on Vasoactive
Medications" - Eddy Gutierrez, M.D.

Session V Concurrent: ICU Liberation

Moderators: Christi Knapp, RN and Christopher Howard, M.D.

- 1:15-1:25pm Physical Therapy Involvement for Early Movement
Kristin Beck, DPT
- 1:25-1:35pm Delirium Management: Advice from Psychiatry
Jose Ribas Roca, M.D.
- 1:35-1:45pm Effective Family Communication and Engagement
Prasad Manian, M.D., MBBS
- 1:45-1:55pm Earlier Extubation – Strategies that Work
Scott Leikin, D.O.
- 1:55-2:15pm Panel Discussion

Session VI Concurrent: Critical Care in OB

Moderators: Amir Shamshirsaz, M.D. and David Muigai, M.D.

- 1:15-1:25pm Amniotic Fluid Embolism
Marie Baldisseri, M.D.
- 1:25-1:35pm Post-partum Hemorrhage
Karin Fox, M.D., M.Ed
- 1:35-1:45pm Peri-partum Cardiomyopathy
Christopher Broda, M.D.
- 1:45-1:55pm Preeclampsia, HELLP Syndrome
Mary Tolcher, M.D., MSc
- 1:55-2:15pm Panel Discussion

Session VII Concurrent: Emergency Airway Management

Moderators: Edward Yang, M.D. and Javeryah Safi, MBBS

- 2:15-2:25pm Intubation in the ICU versus the OR: The Anesthesiology/Intensivist Perspective
Cesar A. Castillo, M.D.
- 2:25-2:35pm Pros and Cons/Evidence for Augmented Devices for Intubation
Dharani K. Narendra, M.D.
- 2:35-2:45pm Tracheostomy Troubleshooting
Ramiro Fernandez II, M.D.
- 2:45-2:55pm The Surgical Airway: Emergency Tracheotomy
N. Eddie Liou, M.D.
- 2:55-3:15pm Discussion

Session VIII Concurrent: HAT = Hematology, Anticoagulation, Thrombosis

Moderators: Christopher Morgan, M.D. and Orlando Suero, M.D.

- 2:15-2:25pm Tumor Lysis Syndrome
Karen Riggins, M.D., Ph.D.
- 2:25-2:35pm Anticoagulation Monitoring (ROTEM, TEG, Quantra)
Meredith Reyes, M.D.
- 2:35-2:45pm Cytokine Release Syndrome
Martha Mims, M.D., Ph.D.
- 2:45-2:55pm ECMO and Anticoagulation: An Ongoing Challenge
Ellen B. Yin, Pharm.D.
- 2:55-3:15pm Panel Discussion
- 3:15-3:30pm Break and Exhibits

Session IX Concurrent: Cardiogenic Shock

Moderators: Alexis Shafii, M.D. and Nikolaos Diakos, M.D.

- 3:30-3:40pm Cardiogenic Shock Outcomes: What to Learn from Trials and Registries
Jason Katz, M.D., MHS
- 3:40-3:50pm Microaxial Flow Pumps in Cardiogenic Shock: Management and Troubleshooting
Aniket Rali, M.D.
- 3:50-4:00pm Prehabilitation and Temporary MCS
Anju Bhardwaj, M.D.
- 4:00-4:10pm Liberation from VA ECMO
Bindu Akkanti, M.D.
- 4:10-4:20pm Durable MCS: Today and Tomorrow
William Cohn, M.D.
- 4:20-4:40pm Panel Discussion

Session X Concurrent: Neuro Critical Care

Moderator: Rahul Damani, M.D.

- 3:30-3:38pm Neuroradiology for the Intensivist
Ravi K. Shastri, M.D.
- 3:38-3:46pm Neurologic Complications and Acute Liver Failure: Neurologist Perspective
Tiffany R. Chang, M.D.
- 3:46-3:54pm Management of Spinal Cord Trauma
Marcus Hoffman, M.D.
- 3:50-4:00pm Spinal Drain Management
Connie Arrington, CNP
- 4:00-4:10pm Non-Convulsive Status Epilepticus in the ICU - Chethan Rao, M.D.
- 4:10-4:40pm Panel Discussion
- 4:40-4:45pm Closing Statements
Subhasis Chatterjee, M.D.
- 4:45-6:15pm Poster Session and Cocktail Reception

Saturday, Oct. 12, 2024

- 7:00-7:30am Registration and Breakfast
- 7:35-7:45am Welcome
Subhasis Chatterjee, M.D.

Session XI: Cardiac Critical Care

Moderators: Alexander Schutz, M.D. and Mourad Senussi, M.D.

- 7:45-7:55am Takotsubo's Cardiomyopathy: Acute Presentations and Management
Ajith P. Nair, M.D.
- 7:55-8:05am VT Storm: How to Manage
Mehdi Razavi, M.D.
- 8:05-8:15am Type B Aortic Dissection: Management Strategies
Vicente Orozco-Sevilla, M.D.
- 8:15-8:25am Anticoagulation for Postop Atrial Fibrillation
Subhasis Chatterjee, M.D.
- 8:25-8:35am Type 2 Demand Ischemia: Cardiologist's Role
Priyanka Sen, M.D.
- 8:35-9:00am Panel Discussion

Session XII: Acute Respiratory Failure

Moderators: Christina Kao, M.D. and Muhammad Siddique, M.D.

- 9:00-9:10am Which Guideline for ARDS Should We Use Now/Impacts (Differences in ATS and ESCM Guidelines)
Hayley B. Gershengorn, M.D.
- 9:10-9:20am High Flow is Not Just for Hypoxemia?
Pratik Doshi, M.D., CMQ
- 9:20-9:30am Steroids and ARDS: Now For More Than Just COVID?
Stephen M. Pastores, M.D.

9:30-9:40am ICU Liberation-Making the Case for ICU and Hospital Leaders
Christopher Howard, M.D.

9:40-10:00am Panel Discussion

Session XIII: Acute Kidney Injury/Nephrology

Moderators: Katherine Timmins, M.D.
and Subhasis Chatterjee, M.D.

10:15-10:25am Biomarkers in AKI
Kianoush Kashani, M.D., MSc

10:25-10:35am AKI in Sepsis: Latest Advances
Hernando Gomez Danies, M.D., MPH

10:35-11:15am Fireside Chat with the Experts: Everything You Wanted to Know About AKI
Kianoush Kashani, M.D., MSc
and Henando Gomez Danies, M.D., MPH

Session XIV: Support and Resilience

Moderators: Astrid Grouls, M.D.
and José L. Díaz-Gómez, M.D., MAS

11:15-11:25am Finding Support for Patients and Providers
Shanda Blackmon, M.D., MPH

11:25-11:35am Preventing Moral Injury: Protecting Providers
Claire Horner, J.D., M.A.

11:35-11:45am Ethics Training for the Next Generation of Surgeons
Piroska Kopar M.D., MBA

11:45-11:55am Palliative Care Does Not Equal "Pull the Plug"
Syed Rizvi, M.D.

11:55-12:15am Panel Discussion

12:15-1:15pm Keynote Speaker and Lunch
"The Transformative Capability of ECMO for Out of Hospital Cardiac Arrest"
Jason Bartos, M.D.

Session XV Concurrent: APP Networking Session

Loyce Mofor, AGACNP-BC and Blake Menchaca, AGACNP

1:20-1:30pm APPs Leading Change: Tips for Organizations and Emerging Leaders
Holly Clayton, MPAS, PA-C

1:30-1:40pm APP Critical Care Onboarding: Best Practices
Robert Webster, PA-C

1:40-1:50pm Critical Communication Skills for Critical Care APPs
Sarah Morrissey, MS, APRN, FNP-BC

1:50-2:00pm Giving Back: APPs in Global Outreach and Service
Kwame Akuamoah-Boateng, DNP, ACNP-BC

2:00-2:20pm Panel Discussion

Session XVI Concurrent: Patient Centered Care: Artificial Intelligence, Wearable Technology, Latest Advances

Moderators: James P. Herlihy, M.D. and Ravi K. Ghanta, M.D.

1:20-1:30pm Noninvasive Hemodynamic Monitoring
Amy Westwick Butcher, PA-C

1:30-1:40pm Wearable Technology To Promote Mobility
Bijan Najafi, Ph.D., MSc

1:40-1:50pm Wearable Monitoring: Real World Application
Lauren Barron, M.D.

1:50-2:00pm Machine Learning in Critical Care
Matthew Segar, M.D.

2:00-2:20pm Panel Discussion

2:20-2:45pm Networking Break and Exhibits

Session XVII Concurrent: Nursing Breakout Session

Moderators: Jesmi Jacob, MSN, RN, CCRN
and Keegan Collins, MPAS, PA-C

- 2:45-2:55pm ICU Nursing Retention: The Issue on All Our Minds - Cristina Montalban-Dimafiles, DNP, RN, CVRN-BC
- 2:55-3:05pm Reducing Post Intensive Care Unit Syndrome
Sharon Vu, NP
- 3:05-3:15pm The Difference Between a Good and Great Nurse: Intensivist Perspective
Sri Kartik Valluri, M.D.
- 3:15-3:25pm The Difference Between a Good and Great Intensivist: Nursing Perspective
Blake Menchaca, AGACNP
- 3:25-3:45pm Panel Discussion

Session XVIII Concurrent: ICU Pharmacology

Moderators: Helina Wakwaya, M.D. and Sri Kartik Valluri, M.D.

- 2:45-2:55pm Multi-modal Analgesia and Minimizing Opioids
Ramya Castillo, Pharm.D.
- 2:55-3:05pm GLP-1, SGLT2 Inhibitors and Surgery
Stephanie Ibekwe, M.D., MPH, MS, MBA
- 3:05-3:15pm ECMO/CRT Pharmacology Considerations
Patrick Wieruszewski, PharmD., RPh
- 3:15-3:25pm Immune Related Adverse Events from Immune Checkpoint Inhibitors
Russell Clark, Pharm.D.
- 3:25-3:45pm Panel Discussion



Session XIX Concurrent: Ultrasound Session

Moderators: Ali Omranian, M.D. and Yangseon Park, M.D.

- 3:45-3:55pm Current Controversy in Critical Care Ultrasound
José L. Díaz-Gómez, M.D., MAS
- 3:55-4:05pm Resuscitative TEE
Orlando Suero, M.D.
- 4:05-4:15pm US-Guided Subclavian Access: A Skill for All
Mourad Senussi, M.D., MS
- 4:15-4:25pm NeuroPOCUS
Mohammad Hirzallah, M.D.
- 4:25-4:45pm Panel Discussion

Session XX Concurrent: Advances in Traumatology

Moderators: Jennifer Leonard, M.D., Ph.D.
and Jeremy Ward, M.D.

- 3:45-3:55pm Surgical Innovations in Chest Wall Trauma
R. Mario Vera, M.D.
- 3:55-4:05pm Extenuating Circumstances - The Approach to the Trauma Patient with Unique Presentations
Sarah Allen, PA-C
- 4:05-4:15pm Video Review for Trauma Quality Improvement
Ryan Dumas, M.D.
- 4:15-4:25pm Whole Blood Transfusion: When, Why, How?
Martin Zielinski, M.D.
- 4:25-4:45pm Panel Discussion
- 4:45-5:00pm Closing Statements
Subhasis Chatterjee, M.D.

Baylor
College of
Medicine®