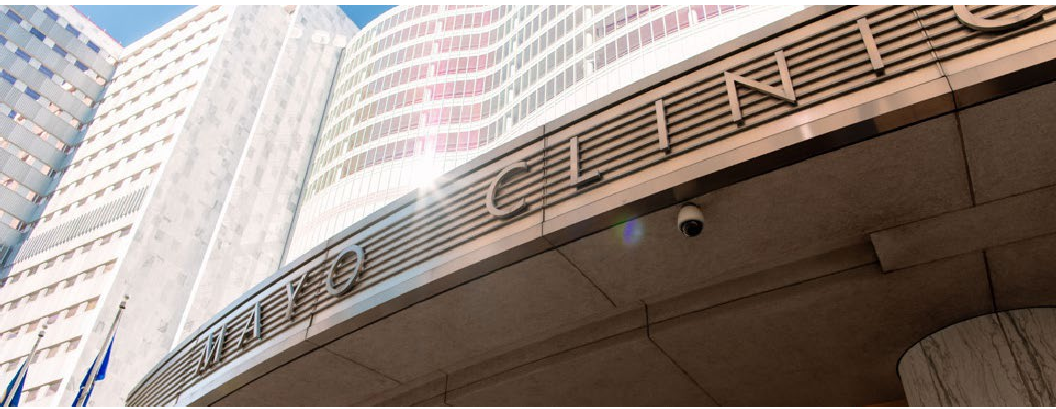




School of Continuous  
Professional Development

# Mechanical Ventilation Conference



September 15-17, 2022

Preconference Workshop - September 14, 2022

**MAKE PLANS TO ATTEND**

Hilton Rochester Mayo Clinic Area  
Rochester, MN



Register  
now!



[ce.mayo.edu/ventilationconference2022](https://ce.mayo.edu/ventilationconference2022)

## COURSE DESCRIPTION

Mayo Clinic Mechanical Ventilation Conference is designed to provide high quality education and detailed hands-on instruction in mechanical ventilation management and to bring physicians, respiratory therapists, and other health care providers who are involved in providing respiratory care on a daily basis.

## COURSE LEARNING OBJECTIVES

Upon conclusion of this program, participants should be able to

- Outline the physiologic principles and cardiopulmonary interactions underlying the risks, benefits, and applications of ventilator support for respiratory failure.
- Describe in detail the use of different modes of ventilator support for patients with respiratory failure.
- Demonstrate appropriate use of mechanical ventilation equipment following participation in hands-on workshop.
- Integrate pulmonary mechanics at the bedside in personalized approach to mechanical ventilation.

## INTENDED AUDIENCE

Mayo Clinic Mechanical Ventilation Conference is designed for critical care providers, respiratory therapists, physicians, physician assistants, nurses and nurse practitioners.

## CREDIT



In support of improving patient care, Mayo Clinic College of Medicine and Science is jointly accredited by the Accreditation Council for Continuing Medical Education (ACGME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team.

The American Medical Association (AMA) and the Accreditation Council for Continuing Medical Education (ACCME). Mayo Clinic College of Medicine and Science designates this live activity for a maximum of 20.75 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## DATE AND LOCATION

**Mayo Clinic Mechanical Ventilation Conference** will be held September 15-17, 2022. Pre-conference workshop September 14, 2022. Conference headquarters will be located in the Hilton Rochester Mayo Clinic Area, 10 East Center Street, Rochester, Minnesota 55904. Meeting facilities are easily accessible by skyway, which connect the Hilton Rochester Mayo Clinic to Mayo Clinic, shops, and a variety of restaurants. Visit <https://www3.hilton.com/en/hotels/minnesota/hilton-rochester-mayo-clinic-area-RSTMAHH/index.html> for more information.

## REGISTRATION

To register online, visit <https://ce.mayo.edu/ventilationconference2022>

The registration fee includes: conference registration, daily continental breakfast, break refreshments and lunches (meeting participants only), and welcome reception.

Although it is not Mayo Clinic School of Continuous Professional Development (CPD) or Mayo Clinic Department of Pulmonary and Critical Care Medicine and Mayo Clinic Department of Anesthesiology and Perioperative Medicine CME policy to limit the number of registrants for a conference, conference room facilities may necessitate closing of enrollment, therefore, early registration is advised. A letter of confirmation will be sent upon receipt of payment and completed registration form. Please present the

confirmation letter when checking in at the meeting registration desk.

For additional information, contact: Mayo Clinic School of Continuous Professional Development

Plummer Building 2  
200 First Street SW  
Rochester, MN 55905  
Phone: 800-323-2688  
Website: <https://ce.mayo.edu>  
Email: [cme@mayo.edu](mailto:cme@mayo.edu)

### **CANCELLATION POLICY**

Requests for cancellations must be submitted in writing to [cme@mayo.edu](mailto:cme@mayo.edu). When cancelling a registration for a conference for a conference 14 days or more before the conference start date, a full refund (minus a \$75 administrative fee) will be issued in the same form of payment the registration was received. No refunds are granted less than 14 days before the conference start date.

Mayo Clinic Department of Pulmonary and Critical Care Medicine, Mayo Clinic Department of Anesthesiology and Perioperative Medicine and/or Mayo Clinic School of Continuous Professional Development reserves the right to cancel or postpone any conference due to unforeseen circumstances. In the unlikely event Mayo Clinic Department of Pulmonary and Critical Care Medicine, Mayo Clinic Department of Anesthesiology and Perioperative Medicine and/or Mayo Clinic School of Continuous Professional Development must cancel or postpone this conference, Mayo Clinic School of Continuous Professional Development will refund the registration fee but is not responsible for any related costs, charges, or expenses to participants, including fees assessed by airline/travel/lodging agencies

### **TRAVEL**

Rochester, Minnesota is a friendly city that greets thousands of visitors from around the world each year. The city is serviced by a modern international airport with multiple flights daily via American, Sun Country and Delta Airlines. Access to and from the airport is provided by taxi, shuttle service, and rental car. The airport is located approximately 10 miles from the Hilton Rochester Mayo Clinic Area and the Mayo Clinic campus.

Note to Travelers: Several cities in the United States are named Rochester. When you make airline reservations and check your baggage, be sure that your destination is Rochester, Minnesota (RST) and that your baggage has been properly tagged.

Minneapolis/St. Paul International Airport (MSP) is located approximately 82 miles from Rochester. The following shuttle services offer multiple trips daily.

#### **Groome Transportation**

507-280-9270

\$44 per person\*

<http://www.groometransportation.com/>

#### **Rochester Shuttle Service**

507-216-6354

\$44 per person\*

<http://www.rochestershuttleservice.com>

\*Rates are quoted for one-way fares to or from the Minneapolis Airport. Rates are subject to change and do not include taxes, fee, or gratuities.

*Travel arrangements are the sole responsibility of the individual registrant.*

### **PARKING**

Parking is available in hotel and city ramps. The cost for parking is not included in the registration fee; parking will not be validated.

## ACCOMMODATIONS

Guest rooms have been reserved for attendees and their guests with special course rates at the Hilton Rochester Mayo Clinic Area. The hotel is easily accessible by skyway. The group rate will not be available after **Wednesday, August 24, 2022** and will be based on space and rate availability. Please identify yourself as a participant of the Mayo Clinic 2022 Mechanical Ventilation Conference when making your reservation.

Click [HERE](#) for group reservations.

### Hilton Rochester Mayo Clinic Area

10 East Center Street  
Rochester, MN 55904  
507-258-575  
\$209/night

\$20/day self-parking

\$26/day valet parking

Quoted room rates do not include taxes or service fees. Check-in time is 3:00 p.m. on the day of arrival, and check-out time is 12:00 a.m. on the day of departure.

Lodging arrangements are the sole responsibility of the individual registrant.

Mayo Clinic Department of Pulmonary and Critical Care Medicine and Mayo Clinic Department of Anesthesiology and Perioperative Medicine are not responsible for expenses incurred by an individual who is not confirmed and for whom space is not available at the meeting. Costs incurred by the registrant such as airline or hotel fees or penalties are the responsibility of the registrant.

## WELCOME RECEPTION

**Wednesday, September 14, 2022**  
**5:30 p.m. – 7:30 p.m.**

Attendees and guests are cordially invited to join conference faculty for the Welcome Reception on Wednesday evening, September 14, 2022 at the Hilton Rochester Mayo Clinic Area.

## CONFERENCE DIRECTORS

Gustavo A. Cortes Puentes, M.D.  
Todd J. Meyer, R.R.T., L.R.T.  
Richard A. Oeckler, M.D., Ph.D.

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**Suraj M. Yalamuri, M.D.**

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*\*Guest Faculty*

## PRE-CONFERENCE WORKSHOP

Wednesday, September 14, 2022 1:00 pm - 5:00 pm

### Pre-Course: Mechanical Ventilation Essentials

This half day course is designed to provide a foundation for providers with less mechanical ventilation experience. Combining hands-on simulations with interactive didactics attendees will learn the fundamentals of ventilator management. Topics covered will include ventilator terminology, functionality of various modes of ventilation, and basic ventilation strategies. Key components of ventilator monitoring will provide attendees the opportunity to have a better understanding of respiratory mechanics and lung physiology.

### Agenda

1:00 - 1:45 pm	Respiratory Physiology and Pulmonary Mechanics <i>Gustavo A. Cortes Puentes, M.D.</i>
1:45 - 2:30 pm	Ventilator Modes <i>William M. LeTourneau, R.R.T., L.R.T.</i>
2:30 -3:00 pm	Break
3:00 -3:45 pm	Intro to Ventilator Waveforms <i>Steven A. Holets, R.R.T., L.R.T.</i>
3:45 - 4:30 pm	Basic Mechanical Ventilation Strategies – How to Manage and Troubleshoot <i>Richard A. Oeckler, M.D., Ph.D.</i>

## PROGRAM

### Day 1 – Thursday, September 15, 2022

7:00 am	Registration and Continental Breakfast
7:45 am	Welcome, Overview and Announcements
<b>Lectures: Basics Physiologic Principles: Understanding Mechanical Ventilation</b>	
8:00 am	Reconciling Physiology and Evidence-based Medicine in Respiratory Care: Lessons Learned During the Pandemic <i>Jean-Louis Vincent, M.D., Ph.D.</i>
8:30 am	Basic Modes of Ventilation: Pressure vs. Flow Regulation <i>Neil R. MacIntyre, Jr, M.D.</i>
9:00 am	Patient-Ventilator Dyssynchrony and Wave Form Analysis <i>Steven R. Holets, R.R.T., L.R.T.</i>
9:30 am	Refreshment Break and Exhibits
<b>10:00 – 11:30 am</b>	
<b>Breakout Sessions:</b>	
<b>Intensive Tutorials, Case Discussions, Introductory Workshops</b>	
<b>Intensive Tutorials</b>	
<i>Select ONE of these sessions (90 minutes):</i>	
1.	Lung Protective Mechanical Ventilation: The role of PEEP today-Pros & Cons <i>John J. Marini, M.D.</i>
2.	Advanced Options and Non-standard Modes: Does the mode make a difference? - Pros and Cons <i>Nader M. Habashi, M.D. and Richard Kallet, MS, R.R.T., FAARC</i>
3.	The Golden Hour of Mechanical Ventilation: Transitioning Respiratory Care from the Emergency Department to the ICU <i>JuneMee Chae, M.D.</i>
4.	“Catch The Wave” – Wave Form Analysis and Patient-Ventilator Dyssynchrony <i>Steve R. Holets, R.R.T., L.R.T.</i>
<i>OR select TWO of the following (45 minutes each):</i>	
<b>Case Discussions</b>	
5.	A Systematic Approach to Refractory Hypoxemia – the Mayo Model <i>Richard A. Oeckler, M.D., Ph.D.</i>
6.	Inability to Ventilate – Airway Obstruction and High Airway Pressures <i>William M. LeTourneau II, R.R.T., L.R.T. and William Clark, R.R.T., L.R.T.</i>
7.	Taking ownership of invasive and noninvasive ventilation devices – How to Manage and Troubleshoot <i>Tanner J. Hill, R.R.T., L.R.T. and Cheryl A. Paulson, R.R.T., L.R.T.</i>
<b>Introductory Workshops</b>	
8.	The ABC’s of Prone Positioning: When, Why and How <i>Alice Gallo De Moraes, M.D., Jennifer L. Elmer, APRN, CNS, D.N.P., Andrea T. Lehnertz, APRN, CNS, M.S.N., Holly D. Behrns, R.R.T., L.R.T.</i>
9.	Ventilation Adjuncts – Tubes, Aerosols and Clearance <i>Bhargavi Gali, M.D.</i>
10.	Lung Recruitment and Setting PEEP: Is My Patient’s Lung Recrutable? <i>Giacomo Bellani, M.D.</i>



<b>11:30 am</b>	<b>Lunch and Exhibits</b>
<b>Lectures: Monitoring During Mechanical Ventilation</b>	
12:30 pm	Excessive Respiratory Drive in COVID-19: How to monitor and Treat? <i>Giacomo Bellani, M.D.</i>
1:00 pm	COVID-19 Associated ARDS Phenotypes: Leading or Misleading? <i>Luigi Camporota, M.D.</i>
1:30 pm	Patient Self-Inflicted Lung Injury (PSILI): Timing of Intubation <i>Laurent J. Brochard, M.D.</i>
2:00 pm	Refreshment Break and Exhibits
<b>2:30 – 4:00 pm Breakout Sessions: Intensive Tutorials, Case Discussions, Introductory Workshops</b>	
<b>Intensive Tutorials</b>	
<i>Select ONE of these sessions (90 minutes):</i>	
1.	Mechanical Ventilation Guided by Esophageal Pressure <i>James E. Baker, R.R.T., L.R.T. and Tanner J. Hill, R.R.T., L.R.T.</i>
2.	Monitoring Diaphragmatic Activity and Respiratory Efforts <i>Laurent J. Brochard, M.D.</i>
3.	Mobilizing the Mechanically Ventilated Patient on ECMO <i>Shannon E. Vold, P.T., D.P.T. and Ashley G. Elkins, O.T.</i>
4.	Airway Management and Ventilatory Support in Pediatrics <i>Devon Aganga, M.D. and Christopher Bosley, R.R.T., L.R.T.</i>
<i>OR select TWO of the following (45 minutes each):</i>	
<b>Case Discussions</b>	
5.	Managing the obese patient: Obesity and Other Disorders of the Chest Wall <i>Bhargavi Gali, M.D.</i>
6.	Integration of Pulmonary Mechanics –Transpulmonary and Airway Driving Pressure <i>Richard A. Oeckler, M.D., Ph.D.</i>
7.	Ventilator Use at Home: Ventilatory Support <i>Peter C. Gay, M.D.</i>
<b>Introductory Workshops</b>	
8.	Controlled Vs. Spontaneous Ventilation in ARDS: When and How? <i>Luigi Camporota, M.D.</i>
9.	Lungs in a Box: Ex vivo lung perfusion (EVLV) for lung transplantation <i>Jorge Mallea, M.D.</i>
10.	“Catch the Wave” – Wave Form Analysis and Patient-Ventilator Dyssynchrony <i>William M. LeTourneau II, R.R.T. L.R.T.</i>
<b>4:00 pm</b>	<b>Get to Know the Experts- Q&amp;A</b> <i>Moderated by Jean-Louis Vincent, M.D., Ph.D.</i>
<b>4:30 pm</b>	<b>Adjourn</b>

**Day 2 – Friday, September 16, 2022**

<b>7:15 am</b>	<b>Continental Breakfast</b>
<b>Lectures: Hypoxia</b>	
8:00 am	A Pragmatic Approach to Lung Recruitability: Why, When and How? <i>Neil R. MacIntyre Jr., M.D.</i>
8:30 am	How I optimize Mechanical Power to avoid VILI <i>Luciano Gattinoni, M.D. Virtual Participation</i>
9:00 am	Neuromuscular Blockade in the ARDS: Who, When and How Long? <i>Laurent J. Brochard, M.D.</i>
<b>9:30 am</b>	<b>Refreshment Break and Exhibits</b>
<b>10:00 – 11:30 Breakout Sessions: Intensive Tutorials, Case Discussions, Introductory Workshops</b>	
<b>Intensive Tutorials</b>	
<i>Select ONE of these sessions (90 minutes):</i>	
1. How to optimize Mechanical Power to avoid VILI: A practical workshop <i>John J. Marini, M.D.</i>	
2. Extra-Corporeal Life Support –Indications, Initial Evaluation and Implementation <i>Suraj Yalamuri, M.D.</i>	
3. The Golden Hour of Mechanical Ventilation: Transitioning Respiratory Care from the Emergency Department to the ICU <i>JuneMee Chae M.D.</i>	
4. Refractory Hypoxemia –A Systematic Approach <i>Richard A. Oeckler, M.D., Ph.D.</i>	
<i>OR Select TWO of the following (45 minutes each):</i>	
<b>Case Discussions</b>	
5. Taking ownership of invasive and noninvasive ventilation devices – How to Manage and Troubleshoot <i>Tanner J. Hill, R.R.T., L.R.T., and Cheryl A. Paulson, R.R.T., L.R.T.</i>	
6. Managing the obese patient: Obesity and Other Disorders of the Chest Wall <i>Bhargavi Gali, M.D.</i>	
7. Non-Invasive Ventilatory Support in ARDS <i>Bernardo Selim, M.D. and Christine Kelm, R.R.T., L.R.T.</i>	
<b>Introductory Workshops</b>	
8. The ABC's of Prone Positioning: When, Why and How <i>Alice Gallo De Moraes, M.D., Jennifer L. Elmer, APRN, CNS, D.N.P., Andrea T. Lehnertz, APRN, CNS. M.S.N., Holly D. Behms, R.R.T., L.R. T.</i>	
9. Bedside Assessment of Auto-PEEP, and Lung Stress and Strain – What should we monitor in the ventilated patient and when? <i>Neil R. MacIntyre Jr, M.D.</i>	
10. Setting PEEP and Bedside Assessment of Lung Recruitability <i>Richard Kallet, MS, R.R.T., FAARC</i>	
<b>11:30 am</b>	<b>Lunch and Exhibits</b>

<b>Lectures: Ventilation</b>	
12:30 pm	Liberation from Mechanical Ventilation <i>Richard Kallet, MS, R.R.T., FAARC</i>
1:00 pm	HFNC and NIV in Hypoxemic-hypercapnic Respiratory Failure: Optimizing NIV Settings <i>Bernardo Selim, M.D.</i>
1:30 pm	Allocation of Ventilatory Support During the COVID-19 Pandemic <i>Erin DeMartino, M.D.</i>
2:00 pm	Management of ARDS: What is Really Evidence-based? <i>Jean-Louis Vincent, M.D., Ph.D.</i>
<b>2:30 pm</b>	<b>Refreshment Break and Exhibits</b>
<b>3:00 – 4:30 pm</b>	
<b>Breakout Sessions:</b>	
<b>Intensive Tutorials, Case Discussions, Introductory Workshops</b>	
<b>Intensive Tutorials</b>	
<i>Select ONE of these sessions (90 minutes):</i>	
1.	How to optimize Mechanical Power to avoid VILI: A practical workshop <i>John J. Marini, M.D.</i>
2.	Mechanical Ventilation in Asthma and COPD <i>Steven R. Holets, R.R.T., L.R.T.</i>
3.	Extra-Corporeal Life Support – Indications, Initial Evaluation and Implementation <i>Suraj Yalamuri, M.D.</i>
4.	Mechanical Ventilation Guided by Esophageal Pressure <i>James E. Baker, R.R.T., L.R.T. and Tanner J. Hill, R.R.T., L.R.T.</i>
<i>OR Select TWO of the following (45 minutes each):</i>	
<b>Case Discussions</b>	
5.	Airway Pressure Release Ventilation (APRV) in the treatment of ARDS <i>Nader M. Habashi, M.D.</i>
6.	Integration of Pulmonary Mechanics –Transpulmonary and Airway Driving Pressures <i>Richard Kallet, MS, R.R.T., FAARC</i>
7.	Non-Invasive Ventilatory Support in ARDS <i>Bernardo Selim, M.D., and Christine Kelm, R.R.T., L.R.T.</i>
<b>Introductory Workshops</b>	
8.	Controlled Vs. Spontaneous Ventilation in ARDS: When and How? <i>Luigi Camporota, M.D.</i>
9.	Lungs in a Box: Ex vivo lung perfusion (EVLV) for Lung Transplantation <i>Jorge Mallea, M.D.</i>
10.	Setting PEEP and Bedside Assessment of Lung Recruitability <i>Giacomo Bellani, M.D.</i>
<b>4:30</b>	<b>Get to Know the Experts- Q&amp;A</b> <i>Moderated by John J. Marini, M.D.</i>
<b>5:00</b>	<b>Adjourn</b>

**Day 3 – Saturday, September 17, 2022**

<b>7:15 am</b>	<b>Continental Breakfast</b>
<b>Master Class Series: Advances in Respiratory Failure Management</b>	
8:00 am	Practical Approach to Mechanical Ventilation during ECMO – Why and How? <i>Suraj Yalamuri, M.D.</i>
8:30 am	Monitoring Regional Ventilation in Hypoxemic Respiratory Failure – the role of electrical impedance tomography <i>Laurent J. Brochard, M.D.</i>
9:00 am	Should we adopt “Open Lung” approach for all? <i>John J. Marini, M.D.</i>
<b>9:30 am</b>	<b>Refreshment Break and Exhibits</b>
10:00 am	Mechanical Power and Positive End-Expiratory Pressure – What is the real mechanical cause of VILI? <i>Luciano Gattinoni, M.D. Virtual Participation</i>
10:30 am	Who gets to be prone and how often? <i>Giacomo Bellani, M.D.</i>
11:00 am	Artificial Intelligence and The Future of Respiratory Care <i>Jean-Louis Vincent, M.D., Ph.D.</i>
11:30 am	Pros & Cons Summary Debate <i>Gustavo A. Cortes Puentes, M.D. and Inga Forde, M.D.</i>
<b>12:30 pm</b>	<b>Adjourn</b>

