Mayo Clinic Mechanical Ventilation Conference 2026 December 8, 2026 to December 11, 2026 Snowbird Resort Snowbird, Utah *Standard Mountain Time*	
Tuesday, December 8, 2026	
Core Curriculum (Pediatric)	
6:00 AM	**Registration, Breakfast and Exhibits** **Location TBD**
6:05 – 6:50 AM	**Breakfast & Non-CME Product Theater: TBD**
7:00 AM	**"Welcome and Course Overview"** **Gustavo A. Cortes Puentes, M.D.**
7:30 AM	Non-invasive Ventilation for Respiratory Distress Syndrome: Strategies to Reduce Harm and Optimize Long-term Outcomes *Ray C. Stetson, M.D., M.S.*
8:00 AM	Strategies for Neonatal Respiratory Distress Syndrome in the Era of Volume-Targeted Ventilation *Martin Keszler, M.D.*
8:30 AM	Advanced Ventilatory Strategies in Infants with Severe Bronchopulmonary Dysplasia *Edward G. Shepherd, M.D.*
9:00 AM	Ventilation of Infants with Air Leak Syndromes: High Frequency, Conventional, or a Non-invasive Approach *Jane E. Brumbaugh, M.D.*
9:30 AM	High-Frequency Ventilation in Newborns: Indications, Physiology, and Case-Based Management *Martin Keszler, M.D.*
10:00 AM	**Break until Afternoon**

Neonatal and Pediatric Certification Pathway Workshop 10:30 AM – 3:30 PM **(Practical approach, demonstrations, and hands-on)** **REGISTRATION REQUIRED**	
10:30 AM	When Intubation Is Not a Failure: Escalation of Respiratory Support in Emerging BPD *Edward G. Shepherd, M.D., Christopher Bosley, R.R.T., L.R.T., NPS*
11:15 AM	HFJV in Clinical Practice: From Rescue Mode to First-Line Strategy. *Martin Keszler, M.D., Alicia M. Skow, R.R.T., L.R.T., NPS*
12:00 PM	**Lunch**
1:00 PM	Ventilating Infants with Air Leak Syndromes: Practical Decision-Making, Case-Based Scenarios *Jane E. Brumbaugh, M.D., Jayden M. Wilhelm, R.R.T., L.R.T., NPS*
1:45 PM	Hands-on Non-Invasive Strategies for Respiratory Distress Syndrome *Ray C. Stetson, M.D., M.S., Josh K. Ralston, R.R.T., L.R.T., NPS*
2:30 PM	Simulation & Case-Based Integration: Newborn Pathology – Ventilatory Approach by Disease ***All Faculty*** *(Moderated by Christopher Bosley, R.R.T., L.R.T., NPS)*
3:30 PM	**Adjourn Workshop**

Core Curriculum Continued (Adult)	
4:00 PM	Essential Respiratory Physiology for Precision Mechanical Ventilation *Gustavo A. Cortes Puentes, M.D.*
4:30 PM	Mechanical Power at the Bedside: What Should We Actually Target? *Richard A. Oeckler, M.D., Ph.D.*
5:00 PM	HFNC in the Management of Hypercapnic Respiratory Failure *Bernardo J. Selim M.D.*
5:30 PM	Electrical Impedance Tomography: Multiple Devices on the Market — Now What Do I Do with It? *Brian K. Walsh, PhD, RRT*
6:00 PM	**Adjourn**
6:00 PM	**Welcome Reception/Après Ski**

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Wednesday, December 9, 2026

Core Curriculum (Adult)

6:00 AM	**Registration, Breakfast and Exhibits** **Location TBD**
6:05 – 6:50 AM	**Breakfast & Non-CME Product Theater: TBD**
7:00 AM	Using Physiology to Personalize Mechanical Ventilation in ARDS *Patricia Rocco, M.D.*
7:30 AM	A physiologist's dissenting perspective on ARDS *Martin Tobin, M.D.*
8:00 AM	Mechanical Ventilation on the Move: Managing Ventilation in Air and Ground Transport *Richard D. Branson, MSc, RRT, FAARC*
8:30 AM	Goodbye ARDS – Hello AHRF? *Niall Ferguson, M.D.*
9:00 AM	Hypoxemia: a cavalcade of misunderstandings unveiled by the Covid pandemic *Martin Tobin, M.D.*
9:30 AM	Patient-Ventilator Asynchrony: Recognition, Interpretation, and Bedside Management *Niall Ferguson, M.D.*
10:00 AM	**Break until Afternoon**

Adult Certification Pathway Workshop 10:30 AM – 3:30 PM
Core Curriculum (Adult)
REGISTRATION REQUIRED

10:30 AM	Essential Ventilator Modes at the Bedside: Practical Mode Selection and Setup *William M. LeTourneau, II, R.R.T., L.R.T., Vanessa L. King, R.R.T., L.R.T.*
11:15 AM	Initiating Lung-Protective Ventilation in ARDS: Ventilator Setup, Targets, and Early Adjustments *Richard A. Oeckler, M.D., Ph.D., Andrew R. Pelletier, R.R.T., L.R.T.*
12:00 PM	Non-Invasive Ventilation for Hypercapnic Respiratory Failure: Interface Selection, Settings, and Failure Recognition. *Peter C. Gay, M.D., Colby R. Kight R.R.T., L.R.T.*
12:45 PM	**Lunch Break**
1:45 PM	Prone Positioning in ARDS: Bedside Implementation and Troubleshooting *Jennifer L. Elmer, APRN, CNS, D.N.P., Dori A. Meyers, R.R.T., L.R.T., Andrew R. Pelletier, R.R.T., L.R.T.*
2:30 PM	Case-Based Integration Managing Invasive and Noninvasive Ventilation Devices: Alarms, Leaks, Auto-PEEP, and Patient-Ventilator Asynchrony *Adam R. Skow, R.R.T., L.R.T., Brianna L. Miller, R.R.T., L.R.T., Tanner J. Hill, R.R.T., L.R.T.*
3:15 PM	Panel Q&A ***All Faculty***
3:30 PM	**Adjourn Workshop**

Core Curriculum Continued (Adult)

4:00 PM	When and How to Initiate Spontaneous Breathing in Acute Hypoxemic Respiratory Failure? *Niall Ferguson, M.D.*
4:30 PM	How to use ICU monitoring data to make wise clinical decisions *Martin Tobin, M.D.*
5:00 PM	High-Flow Nasal Cannula Beyond the ICU: Practical Use in Perioperative and Procedural Care *Bhargavi Gali, M.D., M.H.A.*
5:30 PM	Limiting VILI: What Comes Next? *John J. Marini, M.D.*
6:00 PM	**Adjourn**

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Thursday, December 10, 2026	
Core Curriculum (Pediatric)	
6:00 AM	**Registration, Breakfast and Exhibits** **Location TBD**
6:05 – 6:50 AM	**Breakfast & Non-CME Product Theater: TBD**
7:00 AM	Pulmonary Hypertension in the Neonate: Ventilation Strategy at the Bedside *Jane E. Brumbaugh, M.D.*
7:30 AM	Sedation, Dyssynchrony, and Respiratory Effort in Mechanically Ventilated Infants: A Practical Approach *Edward G. Shepherd, M.D.*
8:00 AM	Non-Invasive Ventilation in the NICU: Mode Selection and Failure Recognition *Martin Keszler, M.D.*
8:30 AM	Extubation Readiness in Neonates: Are We Using the Right Physiologic Markers? *Edward G. Shepherd, M.D.*
9:00 AM	Point-of-Care Ultrasound in Respiratory Support: A Practical Heart–Lung Approach *Jared G. Bird, M.D.*
10:00 AM	**Break**

Advanced Workshop: POCUS + Airway + Advanced Respiratory Support 11:00 AM – 3:30 PM Core Curriculum (Adult) REGISTRATION REQUIRED	
11:00 AM	POCUS-Guided Respiratory Support: Integrating Heart and Lung Ultrasound for Respiratory Support. Didactics and Hands-On Demonstration *Jared G. Bird, M.D., Nick J. Enger, R.D.C.S., ACS*
12:30 PM	**Lunch Break**
1:30 PM	Failure of Non-Invasive Ventilation: Recognition and Airway Management Strategies. Didactics and Hands-On Demonstration *June Chae, M.D., Sumedh S. Hoskote, M.B.B.S., Alexander J. McLimans, P.A.-C., M.S., Sarah M. Mensing, R.R.T., L.R.T.*
2:30 PM	Advanced Monitoring in Mechanical Ventilation: Esophageal Manometry for Effort and Lung Protection *James E. Baker, R.R.T., L.R.T., Katie M. Holtorf, R.R.T., L.R.T.*
3:30 PM	**Adjourn Workshop**

Core Curriculum Continued	
4:00 PM	Respiratory Support in the Obese Patient: A Practical Approach to Ventilation and Oxygenation *Patricia Rocco, M.D., Ph.D.*
4:30 PM	Choosing the Right Noninvasive Support in Acute Hypoxemic Respiratory Failure in the ICU *Peter Gay, M.D.*
5:00 PM	Transitioning from Controlled to Assisted Ventilation: A Practical Bedside Approach *Richard D. Branson, MSc, RRT, FAARC*
5:30 PM	**Adjourn**

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Friday, December 11, 2026

Core Curriculum (Adult)

6:00 AM	**Registration, Breakfast and Exhibits** **Location TBD**
6:05 – 6:50 AM	**Breakfast & Non-CME Product Theater: TBD**
7:30 AM	Mechanical Power vs Driving Pressure vs 4DPRR Index *Patricia Rocco, M.D.*
8:00 AM	Mechanical Ventilation During VV-ECMO *Niall Ferguson, M.D.*
8:30 AM	Respiratory Care in Congenital Heart Disease and Right Ventricular Failure: Key Strategies and Cardiologist Insights *Crystal R. Bonnichsen, M.D.*
9:00 AM	Does Mode Selection Matter in NIV? *Bernardo Selim, M.D.*
9:30 AM	**Break**
9:45 AM	The Mayo Experience: A Systematic Approach to Refractory Hypoxemia Standard Protocols -- *Richard A. Oeckler, M.D., Ph.D.* Future Direction -- *Gustavo A. Cortes Puentes, M.D.*
10:35 AM	Panel Discussion: Precision Ventilation – Physiology vs Algorithms *Bernardo Selim, M.D.*
11:00 AM	**Adjourn**