

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	Lung-Protective Ventilation in Neonates: Beyond Tidal Volume — Effort, Mechanical Power, and PSILI <i>Ray C. Stetson, M.D., M.S.</i>
8:00 AM	Strategies for Neonatal Respiratory Distress Syndrome in the Era of Volume-Targeted Ventilation <i>Martin Keszler, M.D.</i>
8:30 AM	Advanced Ventilatory Strategies in Infants with Severe Bronchopulmonary Dysplasia <i>Edward G. Shepherd, M.D.</i>
9:00 AM	Ventilation of Infants with Air Leak Syndromes: HFOV vs HFJV vs Conventional <i>Jane E. Brumbaugh, M.D.</i>
9:30 AM	High-Frequency Ventilation in Newborns: Indications, Physiology, and Case-Based Management <i>Martin Keszler, M.D.</i>
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 <i>Edward G. Shepherd, M.D., Christopher Bosley, R.R.T., L.R.T., NPS</i>
11:15 AM	HFJV in Clinical Practice: From Rescue Mode to First-Line Strategy. <i>Martin Keszler, M.D., Alicia M. Skow, R.R.T., L.R.T., NPS</i>
12:00 PM	Lunch
1:00 PM	Ventilating Infants with Air Leak Syndromes: Practical Decision-Making, Case-Based Scenarios <i>Jane E. Brumbaugh, M.D., Jayden M. Wilhelm, R.R.T., L.R.T., NPS</i>
1:45 PM	Neonatal RDS Is Not One Disease: Phenotype-Driven Ventilation <i>Ray C. Stetson, M.D., M.S., Josh K. Ralston, R.R.T., L.R.T., NPS</i>
2:30 PM	Simulation & Case-Based Integration: Newborn Pathology – Ventilatory Approach by Disease All Faculty
3:30 PM	Adjourn Workshop

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

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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 <i>Patricia Rocco, M.D.</i>
7:30 AM	Bedside Monitoring of Lung Injury Progression (Effort, Compliance, Recruitability) [REDACTED]
8:00 AM	Mechanical Ventilation on the Move: Managing Ventilation in Air and Ground Transport <i>Richard D. Branson, MSc, RRT, FAARC</i>
8:30 AM	New Randomized Trials in ARDS: Should We Be Changing Our Ventilator Strategy? <i>Niall Ferguson, M.D.</i>
9:00 AM	Spontaneous Breathing During Mechanical Ventilation: A Practical Guide to Effort and Lung Protection [REDACTED]
9:30 AM	Patient-Ventilator Asynchrony: Recognition, Interpretation, and Bedside Management <i>Niall Ferguson, M.D.</i>
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 <i>William M. LeTourneau, II, R.R.T., L.R.T., Vanessa L. King, R.R.T., L.R.T.</i>
11:15 AM	Initiating Lung-Protective Ventilation in ARDS: Ventilator Setup, Targets, and Early Adjustments <i>Richard A. Oeckler, M.D., Ph.D., Madison L. Hahn, R.R.T., L.R.T., Andrew R. Pelletier, R.R.T., L.R.T.</i>
12:00 PM	Non-Invasive Ventilation for Hypercapnic Respiratory Failure: Interface Selection, Settings, and Failure Recognition. <i>Peter C. Gay, M.D., Colby R. Kight R.R.T., L.R.T.</i>
12:45 PM	Lunch Break
1:45 PM	Prone Positioning in ARDS: Bedside Implementation and Troubleshooting <i>Jennifer L. Elmer, APRN, CNS, D.N.P., Courtney L. Stellpflug, APRN, CNS, M.S., Dori A. Meyers, R.R.T., L.R.T., Andrew R. Pelletier, R.R.T., L.R.T.</i>
2:30 PM	Case-Based Integration Managing Invasive and Noninvasive Ventilation Devices: Alarms, Leaks, Auto-PEEP, and Patient-Ventilator Asynchrony <i>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.</i>
3:15 PM	Panel Q&A All Faculty
3:30 PM	Adjourn Workshop

Core Curriculum Continued (Adult)	
4:00 PM	Controlled vs Spontaneous Ventilation in ARDS: When and How? <i>Niall Ferguson, M.D.</i>
4:30 PM	Recruitability assessment and PEEP selection in ARDS 
5:00 PM	High-Flow Nasal Cannula Beyond the ICU: Practical Use in Perioperative and Procedural Care <i>Bhargavi Gali, M.D., M.H.A.</i>
5:30 PM	Limiting VILI: What Comes Next? <i>John J. Marini, M.D.</i>
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: Ventilator Strategies to Optimize RV–Pulmonary Coupling <i>Jane E. Brumbaugh, M.D.</i>
7:30 AM	Sedation, Dyssynchrony, and Respiratory Effort in Mechanically Ventilated Infants: A Practical Approach <i>Edward G. Shepherd, M.D.</i>
8:00 AM	Non-Invasive Ventilation in the NICU: Mode Selection and Failure Recognition <i>Martin Keszler, M.D.</i>
8:30 AM	Extubation Readiness in Neonates: Are We Using the Right Physiologic Markers? <i>Edward G. Shepherd, M.D.</i>
9:00 AM	Point-of-Care Ultrasound in Respiratory Support: A Practical Heart–Lung Approach <i>Jared G. Bird, M.D.</i>
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 <i>Jared G. Bird, M.D., Nick J. Enger, R.D.C.S., ACS</i>
12:30 PM	Lunch Break
1:30 PM	Failure of Non-Invasive Ventilation: Recognition and Airway Management Strategies. Didactics and Hands-On Demonstration <i>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., Danny Duncan, R.R.T., R.C.P.</i>
2:30 PM	Advanced Monitoring in Mechanical Ventilation: Esophageal Manometry for Effort and Lung Protection <i>James E. Baker, R.R.T., L.R.T., Katie M. Holtorf, R.R.T., L.R.T.</i>
3:30 PM	Adjourn Workshop

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

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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 <i>Patricia Rocco, M.D.</i>
8:00 AM	Mechanical Ventilation During VV-ECMO <i>Niall Ferguson, M.D.</i>
8:30 AM	Respiratory Care in Congenital Heart Disease and Right Ventricular Failure: Key Strategies and Cardiologist Insights <i>Crystal R. Bonnicksen, M.D.</i>
9:00 AM	Does Mode Selection Matter in NIV? <i>Bernardo Selim, M.D.</i>
9:30 AM	Break
9:45 AM	The Mayo Experience: A Systematic Approach to Refractory Hypoxemia Standard Protocols -- <i>Richard A. Oeckler, M.D., Ph.D.</i> Future Direction -- <i>Gustavo A. Cortes Puentes, M.D.</i>
10:35 AM	Panel Discussion: Precision Ventilation – Physiology vs Algorithms <i>Bernardo Selim, M.D.</i>
11:00 AM	Adjourn