

THE BEST OF
aarc
2026
DAMMAM, KSA
15-17 JANUARY 2026



FRCS
C O U R S E S
Adults
15-16 JANUARY
NeoPed
16 JANUARY

CONFERENCE & EXHIBITION

VENUE: MOHAMMED ALMANA COLLEGE FOR MEDICAL SCIENCES



aarc
American Association
for Respiratory Care

In Collaboration With:



مركز جونز هوبكنز
أرامكو الطبي
Johns Hopkins
Aramco Healthcare



Event Hosted By:



SCIENTIFIC PROGRAM



With Gracious Invitation
The Conference is Hosted By:



كلية محمد المانع
للعلوم الطبية
MOHAMMED AL MANA COLLEGE
FOR MEDICAL SCIENCES



Dear Colleagues,

We are delighted to welcome you to The Best of AARC2026 Conference & FRCS Courses, a three-day CONFERENCE & EXHIBITION to be held at Mohammed Almana College for Medical Sciences (MACHS), Dammam, Saudi Arabia from 15-17 January 2026. The conference is under the auspice of the American Association for Respiratory Care (AARC) in collaboration with the American Respiratory Care Foundation (ARCF), the Saudi Society for Respiratory Care (SSRC), Alfaisal University, Mohammed Almana College for Medical Sciences, Prince Sultan Military College of Health Sciences, John Hopkins Aramco Healthcare, and Imam Abdulrahman bin Faisal University, also there are multiple participations from the key Respiratory Care Departments and Programs in Saudi Arabia and GCC.

This year's Committee has prepared a comprehensive scientific and hands-on program that addresses all essential domains of Respiratory Care. The curriculum covers foundational modalities including 24 lectures encompassing Adult, Neonatal, and Pediatric Fundamentals of Respiratory Care, 8 clinical skills workshops.

Also, a dedicated one and half day with 16+ state-of-the-art lectures, debates, and pro/con sessions on the latest advances in respiratory care.

Whether you are a seasoned professional or embarking on your journey into Respiratory Care, this program is designed to enhance your knowledge, strengthen your clinical skills, and equip you for excellence in modern respiratory care. Throughout the conference, participants will explore common and complex respiratory conditions, diagnostic techniques, and emerging therapeutic modalities.

We extend our sincere appreciation to our host, Mohammed Almana College for Medical Sciences, for graciously supporting and hosting the Conference on their distinguished campus.

Our heartfelt gratitude also goes to our sponsors, whose support makes this event possible. We equally recognize and thank our committed faculty members and participants for their invaluable time, contribution, and dedication.

We look forward to welcoming you to this exceptional conference and its associated courses.

Best regards

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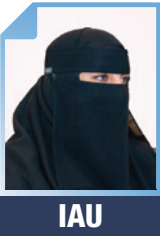
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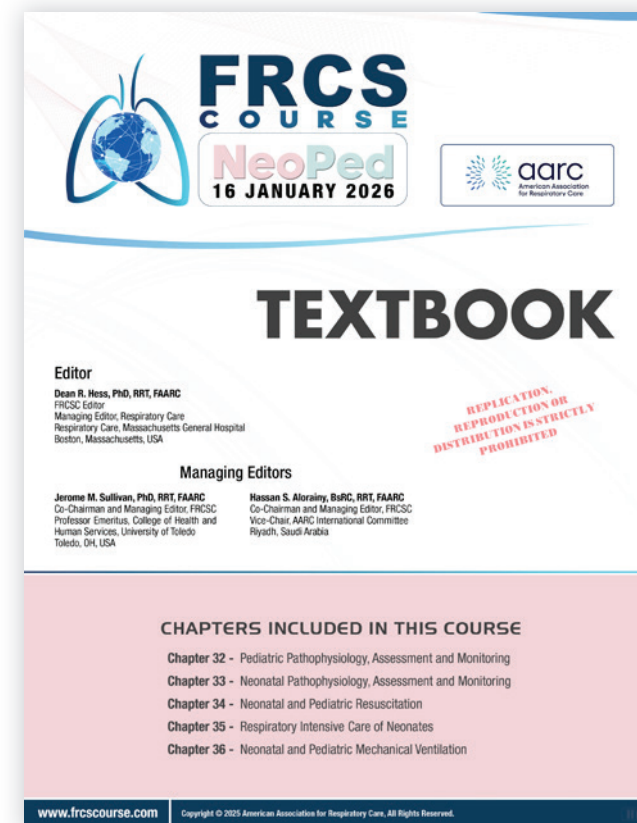
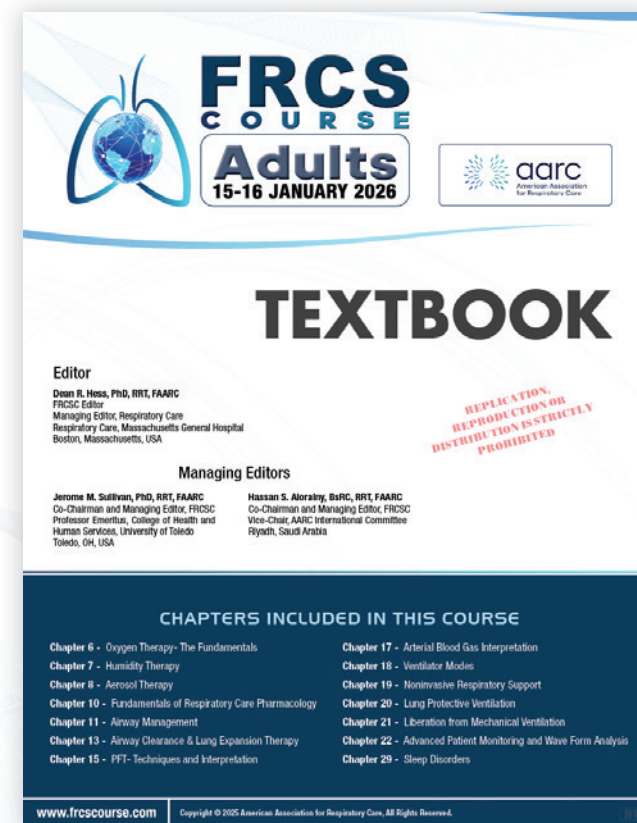




WHAT DOES EACH INCLUDE?

				
1.	Attend the “ Best of AARC 2026 ” State-Of-The-Art one and half day conference, starting the afternoon of Friday, 16 January, 2026 and Saturday, 17 January 2026.	✓	✓	✓
2.	Full access to the whole conference activities.	✓	✓	✓
3.	Attend the FRCS-Adults Lectures, all day on Thursday, 15 January 2026, delivered by leading speakers in Adult Respiratory Care.	✓	✓	
4.	Attend the FRCS-NeoPed Lectures, Morning of all Friday, 16 January 2026, delivered by leading speakers in Neonatal/ Pediatric Respiratory Care.	✓		✓
5.	Attend FRCS-Adults Skill Station/ Workshops all day on Friday, 16 January 2026, conducted by leading instructors in Adult Respiratory Care.		✓	
6.	Sit for the FRCS-Adults Pre & Post Tests. (Pre-Test one month before the course, Post-Test immediately after the Skill Station).		✓	
7.	Receive the FRCS-Adults Course textbook (~270 pages).		✓ (see image)	
8.	FRCS-NeoPed Skill Station/ Workshops afternoon of Friday, 16 January 2026, conducted by leading instructors in Neonatal/ Pediatric Respiratory Care.			✓
9.	Sit for the FRCS-NeoPed Pre & Post Tests. (Pre-Test one month before the course, Post-Test immediately after the Skill Station).			✓
10.	Receive the FRCS-NeoPed Course textbook (~120 pages).			✓ (see image)
11.	All Conference and Course Material.	✓	✓	✓
12.	Certificates of Attendance for the whole conference.	✓	✓	✓
13.	Earn CMEs from SCFHS .	✓	✓	✓
14.	Earn CRCEs , from the AARC .	✓	✓	✓
15.	Receive FRCS Certificate of Successful Completion upon passing the Post Course Exam.		✓ (see image)	✓ (see image)
16.	Enrolment in AARC membership for one (1) year.		✓	✓

WHAT DOES EACH INCLUDE?





THE 3 DAYS
PROGRAM STRUCTURE

THE 3 DAYS
PROGRAM STRUCTURE



Thursday, 15 Jan. 2026		Friday, 16 Jan. 2026			Friday, 16 Jan. 2026	Saturday, 17 Jan. 2026
MORNING	MACHS Main Auditorium - Oxygen Therapy; The Fundamentals - Humidity Therapy - Aerosol Therapy - Airway Clearance & Lung Expansion Therapy - Airway Management - Fundamentals of Respiratory Care Pharmacology - Sleep Disorders	MACHS Classrooms SKILL STATIONS/ WORKSHOPS Aerosol Therapy Airway Clearance & Lung Expansion Therapy Airway Management	MACHS Main Auditorium - Pediatric Pathophysiology, Assessment and Monitoring - Neonatal Pathophysiology, Assessment and Monitoring - Respiratory Intensive Care of Neonates - Neonatal & Pediatric Resuscitation - Neonatal & Pediatric Ventilation			MACHS Main Auditorium - Shaping the Future in Healthcare: The AI Revolution in Respiratory Care - What is Evidence-Based Respiratory Care? - Healing the Healers; Burnout in Respiratory Care; Recognize, Respond, Recover - The Future of Respiratory Care Profession and the Role of the AARC - Individualized PEEP vs. PEEP Tables - What Does the Evidence Tell Us? - HFNC Oxygen Therapy: Physiological Mechanisms, Initiation, and Management - Using Pulse Oximetry Wisely - Asynchrony: Consequences and Management
	Lunch Break	Lunch Break	Lunch Break		Lunch Break	Lunch Break
AFTERNOON	MACHS Main Auditorium - Acid Base Balance, Blood Gas Analysis & Oxygenation - Pulmonary Function Testing- Techniques and Interpretation - Noninvasive Respiratory Support - Ventilator Modes - Advanced Patient Monitoring & Waveform Analysis - Lung Protective Ventilation Approaches in Various Diseases - Liberation From Mechanical Ventilation	MACHS Classrooms SKILL STATIONS/ WORKSHOPS Noninvasive Respiratory Support Ventilator Modes Pulmonary Function Testing	MACHS Classrooms SKILL STATIONS/ WORKSHOPS Neonatal & Pediatric Resuscitation Neonatal & Pediatric Ventilation		MACHS Main Auditorium INTERACTIVE SESSIONS - International Collaboration in Respiratory Care Education - Meet The Experts In Respiratory Care Services Management HOT TOPICS IN PULMONARY FUNCTION TESTING & INTERPRETATIONS - Mastering the Latest ATS Guidelines: Essential for Accurate Reporting and Interpretation. - New Insights; The Evolving Role of Forced Oscillation Techniques in Pulmonary Function Testing. MEET THE INDUSTRIES SESSIONS ABSTRACT PRESENTATION	MACHS Main Auditorium - Modern Approaches to Infant Ventilation with Hypoxic Respiratory Failure; Innovations and Insights - What We've Learned About Bronchiolitis and High Flow Nasal Cannula - TBA - Advances in Asthma and COPD Treatment: What's New and What's Next? - Simulation-Based Learning Reimagined: What's New, What Works, What's Next - Optimizing Clinical Training: Strengthening Preceptor-Student Partnership - Why Teams Fail: The Leadership Imperative in Transforming The Culture of Your Team - What I've Learned After 50 Years in Respiratory Care

Post FRCS-Adult Course Test

Post FRCS-NeoPed Course Test

DAY 1 - THURSDAY, 15 JANUARY 2026 - AM	
06:30 - 07:30	Registration
SESSION 1	
Chairs:	
07:30 - 08:00	Oxygen Therapy; The Fundamentals Rioloida V. Diola - Philippines 🇵🇭
08:00 - 08:30	Humidity Therapy Dana L. Evans - USA 🇺🇸
08:30 - 09:00	Aerosol Therapy Douglas S. Gardenhire - USA 🇺🇸
09:00 - 09:30	Airway Clearance & Lung Expansion Therapy Carl R. Hinkson - USA 🇺🇸
09:30 - 10:00	Opening and Welcome Remarks
10:00 - 10:30	COFFEE BREAK
SESSION 2	
Chairs:	
10:30 - 11:00	Airway Management Rachael J. Sullivan - USA 🇺🇸
11:00 - 11:30	Fundamentals of Respiratory Care Pharmacology Douglas S. Gardenhire - USA 🇺🇸
11:30 - 12:00	Sleep Disorders Ahmed S. BaHammam - KSA 🇸🇦
12:00 - 13:00	LUNCH BREAK

DAY 1 - THURSDAY, 15 JANUARY 2026 - PM	
SESSION 3	
Chairs:	
13:00 - 13:30	Acid Base Balance, Blood Gas Analysis & Oxygenation J. Brady Scott - USA 🇺🇸
13:30 - 14:00	Pulmonary Function Testing- Techniques and Interpretation Hajed M. Al-Otaibi - KSA 🇸🇦
14:00 - 14:30	Noninvasive Respiratory Support Dean R. Hess - USA 🇺🇸
14:30 - 15:00	Ventilator Modes Thomas Piraino - Canada 🇨🇦
15:00 - 15:30	COFFEE BREAK
SESSION 4	
Chairs:	
15:30 - 16:15	Advanced Patient Monitoring & Waveform Analysis J. Brady Scott - USA 🇺🇸
16:15 - 16:45	Lung Protective Ventilation Approaches in Various Diseases Dean R. Hess - USA 🇺🇸
16:45 - 17:15	Liberation From Mechanical Ventilation Thomas Piraino - Canada 🇨🇦
End of Day 1	

DAY 2 - FRIDAY, 16 JANUARY 2026 - AM

Fundamentals of Respiratory Care- Adult Workshops/ Skill Stations
08:00 - 12:00 | Morning Sessions

TIME	SKILL STATION 1	SKILL STATION 2	SKILL STATION 3
Subject	Aerosol Therapy	Airway Clearance & Lung Expansion Therapy	Airway Management
Instructors	Douglas S. Gardenhire USA 	Carl R. Hinkson USA 	Rachael C. Sullivan USA 
	Yahya A. Alzahrani KSA DAMMAM	Tariq Aljasser KSA RIYADH	Munyra I. Alhotye KSA RIYADH
	Laila Jeftawi KSA RIYADH	Jose Rex N. Navarro KSA DAMMAM	Husam Alahmadi KSA JEDDAH
08:00 - 09:10	ADULT GROUP A Chair/Coordinator - Fathadin A. Alahdal	ADULT GROUP B Chair/Coordinator - Aqeel J. Almayouf	ADULT GROUP C Chair/Coordinator - Fouad Al Mutairi
09:10 - 10:20	ADULT GROUP B	ADULT GROUP C	ADULT GROUP A
10:20 - 10:50	COFFEE BREAK		
10:50 - 12:00	ADULT GROUP C	ADULT GROUP A	ADULT GROUP B

12:00 - 13:00 LUNCH BREAK

DAY 2 - FRIDAY, 16 JANUARY 2026 - PM

Fundamentals of Respiratory Care- Adult Workshops/ Skill Stations
13:00 - 18:30 | Afternoon Sessions

TIME	SKILL STATION 4	SKILL STATION 5	SKILL STATION 6
Subject	Noninvasive Respiratory Support	Ventilator Modes	Pulmonary Function Testing
Instructors	Dean R. Hess USA 	Thomas Piraino Canada 	Hajed M. Al-Otaibi KSA JEDDAH
	Ahmed S. BaHammam KSA RIYADH	Abdulaziz Alyami KSA DHAHRAN	Malak O. Alshlowi KSA DAMMAM
	Abdullah Alharthi KSA ALAHSa	Noorah A. AlNoaimi KSA DAMMAM	Masarrah Y. AlJaroorf KSA DAMMAM
13:00 - 14:10	ADULT GROUP A Chair/Coordinator - Ahmed S. Alrowaily	ADULT GROUP B Chair/Coordinator - Hessah G. Alotaibi	ADULT GROUP C Chair/Coordinator - Siraj T. Jaishi
14:10 - 15:30	ADULT GROUP B	ADULT GROUP C	ADULT GROUP A
15:30 - 16:00	COFFEE BREAK		
16:00 - 17:15	ADULT GROUP C	ADULT GROUP A	ADULT GROUP B

17:30 - 18:30 FRCS Course Adults - POST TEST

End of Day 2

DAY 2 - FRIDAY, 16 JANUARY 2026 | 08:00 - 12:00

WORKSHOP - 1

Aerosol Therapy

OBJECTIVES:

Clinical skill demonstration on aerosol therapy will include three parts and the learning objectives of each station are listed below.

Part 1: Aerosol Drug Delivery to Spontaneously Breathing Patients Using Nebulizers

- Review the features of each nebulizer and interface used in spontaneously breathing patients.
- Explain the selection of appropriate aerosol delivery devices and interfaces for this patient population.
- Demonstrate correct delivery techniques for jet and mesh nebulizers.
- Discuss strategies to improve patient education and adherence to aerosol therapy.
- Explain the cleaning and maintenance procedures for nebulizers.

Part 2: Aerosol Drug Delivery to Spontaneously Breathing Patients Using Inhalers

- Review the features of each inhaler used in spontaneously breathing patients
- Explain the selection of appropriate inhalers for this patient population.
- Demonstrate correct delivery techniques for pMDIs, DPIs, and SMIs.
- Discuss strategies to improve patient education and adherence to aerosol therapy.
- Explain the cleaning and maintenance procedures for different inhalers.

Part 3: Aerosol Drug Delivery to Patients Receiving Ventilatory Support

- Explain the selection of appropriate aerosol delivery devices for patients receiving invasive ventilation.
- Demonstrate effective techniques for aerosol drug delivery in mechanically ventilated patients.
- Explain the cleaning and maintenance procedures for different aerosol delivery devices.

INSTRUCTORS



LEAD INSTRUCTOR

Douglas S. Gardenhire, EdD, RRT, RRT-NPS, FAARC

Chair and Clinical Professor
Governor's Teaching Fellow
Department of Respiratory Therapy
Lewis College of Nursing and Health Professions
Georgia State University
Atlanta, GA, USA



CO-INSTRUCTOR

Yahya A. Alzahrani, PhD, RRT-NPS, RPFT, AE-C

Assistant Professor and Consultant
Respiratory Care
Chair, Department of Respiratory Care-
Dammam
Imam Abdulrahman Bin Faisal University
Dammam, Saudi Arabia

DAMMAM



CO-INSTRUCTOR

Laila K. Jeftawi, MSc, RRT

Lecturer, Senior Specialist and Director,
Respiratory Care Program
Princess Nourah Bint Abdulrahman University
Riyadh, Saudi Arabia

RIYADH

OBJECTIVES:

Part 1: Airway Clearance Therapy

- Demonstrate the traditional chest physiotherapy technique
- Demonstrate the forced exhalation technique (FET) maneuver
- Demonstrate the autogenic drainage (AD) technique
- Review the characteristics/parts of each airway clearance device: HFCWC; PEP, OPEP, Insufflator/Exsufflator
- Explain the selection of the appropriate airway clearance device
- Explain mechanism of operation for each device and whenever applicable the parameters that need to be set by the clinician
- Demonstrate correct assembly and interface to patients
- Discuss measures that can improve patients' adherence to therapy
- List classes of medications used for airway clearance therapy

Part 2: Suctioning

- Assemble the items needed during suctioning of spontaneously breathing patient
- Assemble the items needed during suctioning of mechanically ventilated patient
- Demonstrate effective technique for suctioning spontaneously breathing patients
- Demonstrate effective technique for suctioning mechanically ventilated patients

Part 3: Lung Volume Recruitment

- Review the features of each incentive spirometers (e.g., flow-directed IS and volume directed IS)
- Demonstrate the appropriate use of each of the incentive spirometers
- Describe the use of manual resuscitator for performing lung volume recruitment
- Describe the use of mechanical ventilators for performing lung volume recruitment

INSTRUCTORS



LEAD INSTRUCTOR

Carl R. Hinkson, MSc, RRT, RRT-ACCS, RRT-NPS, FAARC

Senior Director Ancillary Services
Providence Health & Services
Providence Regional Medical Center Everett,
Everett, WA, USA
Immediate Past President, American
Association for Respiratory Care (AARC)
President, American Respiratory Care
Foundation (ARCF)



CO-INSTRUCTOR

Tariq S. Aljasser, MSc, RRT-NPS
Head, Respiratory Care Services
King Faisal Specialist Hospital &
Research Centre
Riyadh, Saudi Arabia

RIYADH



CO-INSTRUCTOR

Jose Rex N. Navarrosa, BSRT, RTRP

Skill Laboratory Instructor, Respiratory Care
Department
Head, Quality and Accreditation Unit
College of Applied Medical Sciences
Imam Abdulrahman Bin Faisal University
Dammam, Saudi Arabia

DAMMAM

DAY 2 - FRIDAY, 16 JANUARY 2026 | 08:00 - 12:00

WORKSHOP - 3

Airway Management

OBJECTIVES:

Clinical skill demonstration of airway management techniques is divided into 3 parts with the following learning objectives:

Part 1: Anatomy, Airway Assessment, Basic Maneuvers and Equipment

- Describe upper airway anatomy.
- Describe assessment of the airway and identify the compromised airway.
- Describe basic airway maneuvers and equipment

Part 2: Advanced Maneuvers and Equipment, Intubation Equipment

- Demonstrate appropriate bag mask ventilation techniques.
- Describe supraglottic airways and demonstrate insertion techniques
- Show intubation equipment: Endotracheal tube, Macintosh and Miller Blades, Video laryngoscope, bougies, bronchoscope

Part 3: Intubation, Ett Verification, Extubation, Tracheostomy

- Discusses process for intubation and demonstrates intubation
- Verification of tracheal intubation
- Discuss process for extubation
- Discuss indications for and demonstrate use of and placement of tracheostomy tube

INSTRUCTORS



LEAD INSTRUCTOR
Rachael C. Sullivan, MD, MS, FACS
Trauma and Emergency General Surgeon
and Surgical Intensivist
Mercy St. Vincent Hospital
Toledo, Ohio, USA



RIYADH

CO-INSTRUCTOR
Munyra I. Alhotye, PhD, RRT-NPS
Assistant Professor, Senior Respiratory Therapist,
Clinical Coordinator
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JEDDAH

CO-INSTRUCTOR
**Husam Alahmadi, PhD, RRT, RRT-NPS, RRT-
RPFT, AE-C**
Assistant Professor & Consultant in Respiratory
Therapy
Deputy Director, Alumni & Skills Development
Center
King Abdulaziz University (KAU)
Jeddah, Saudi Arabia

DAY 2 - FRIDAY, 16 JANUARY 2026 | 13:00 - 18:30

WORKSHOP - 4

Noninvasive Respiratory Support

OBJECTIVES:

The purpose of this workshop is to address practical aspects of noninvasive respiratory support.

- Describe the selection of an appropriate interface for NIV in the acute care and longterm settings.
- Explain how to select appropriate settings for acute applications of NIV.
- Discuss monitoring and discontinuation of NIV in the acute care setting.
- Compare NIV, CPAP, and HFNC.
- Discuss approaches to NIV and CPAP intolerance.
- Compare approaches to humidification during CPAP and NIV.
- Select appropriate settings of flow and temperature during HFNC.
- Discuss approaches to discontinuation of HFNC.

INSTRUCTORS



LEAD INSTRUCTOR
Dean R. Hess, PhD, RRT, FAARC
FRCS Editor
Managing Editor, Respiratory Care
Respiratory Care, Massachusetts
General Hospital
Boston, Massachusetts, USA



RIYADH

CO-INSTRUCTOR
Ahmed S. BaHammam, MD, FRCP, FCCP
Professor of Medicine
Editor-in-Chief: Nature & Science of Sleep
President, Asian Society of Sleep Medicine
Consultant Pulmonary and Sleep
Medicine Director,
University Sleep Disorders Center
Executive Director, Academic Affairs,
King Saud University Medical City
Director Prince Naif Health Research Center,
King Saud University
Riyadh, Saudi Arabia



ALAHSA

CO-INSTRUCTOR
Abdullah Alharthi, BsRT, RRT
Supervisor Respiratory Services Department
King Abdulaziz Hospital – National Guard
Health Affairs (KAH-NGHA)
Al Ahsa, Saudi Arabia

DAY 2 - FRIDAY, 16 JANUARY 2026 | 13:00 - 18:30

WORKSHOP - 5

Ventilator Modes

OBJECTIVES:

The purpose of this workshop is to provide practical and clinically relevant frameworks for the application of ventilator modes.

- Define mode of ventilation.
- Classify modes of ventilation.
- Describe the function of common modes of ventilation.
- Discuss clinical uses for each mode of ventilation.
- Choose appropriate initial ventilator settings for each mode.
- Use ventilator mode strategies to correct oxygenation and ventilation.
- Identify complications and shortcomings of various modes of ventilation.

INSTRUCTORS



LEAD INSTRUCTOR

Thomas Piraino, RRT, FCSRT, FAARC

Respiratory Therapy Consultant
 Lecturer, Department of Anesthesia,
 Division of Critical Care
 McMaster University
 Clinical Specialist-Mechanical Ventilation
 Kingston General Hospital
 Hamilton, Ontario, Canada



CO-INSTRUCTOR

Abdulaziz Alyami, MsRC, RRT, MBA

Program Director, Respiratory Critical Care
 and Post-Graduate Program
 Education Lead, Specialized Therapy and
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 Dhahran, Saudi Arabia

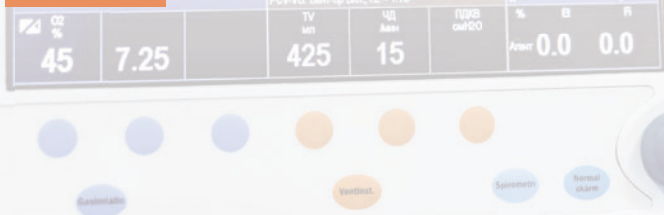


CO-INSTRUCTOR

Noorah A. AlNoaimi, Msc, RT

Respiratory Care Specialist and Lecturer,
 Respiratory Care Department
 Imam Abdulrahman Bin Faisal University
 Dammam, Saudi Arabia

DAMMAM



DAY 2 - FRIDAY, 16 JANUARY 2026 | 13:00 - 18:30

WORKSHOP - 6

Pulmonary Function Testing

OBJECTIVES:

Clinical skill demonstration on pulmonary function testing will include three parts and the learning objectives of each station are listed below.

Part 1: Simple Spirometry

- Review volume and capacities used in simple spirometry measurement.
- Explain each volume and capacity measured and discuss the importance as it relates to lung physiology.
- Demonstrate correct techniques for simple spirometry.
- Discuss strategies and pitfalls to improve patient adherence to completing a successful spirometry.

Part 2: Lung Volumes, MVV and DLCO

- Review volume and capacities used in lung volume, MVV and DLCO measurements.
- Explain each test (LV, MVV and DLCO) and discuss its importance as it relates to lung physiology.
- Demonstrate correct delivery techniques for each test (LV, MVV, and DLCO).
- Discuss strategies and pitfalls to improve patient adherence in completing a successful trial of each test (LV, MVV, and DLCO).

Part 3: Interpretation of pulmonary function testing

- Explain normal values of pulmonary function testing.
- Discuss volumes and capacities as they relate to the pulmonary function testing.
- Interpret pulmonary function tests as related to simple spirometry, LV, MVV and DLCO.

INSTRUCTORS



JEDDAH

LEAD INSTRUCTOR

Haged M. Al-Otaibi, PhD, RRT

Associate Professor of Respiratory Therapy
 Vice Dean for Postgraduate Studies and
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 Director, Respiratory Therapy
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 Jeddah, Makkah, Saudi Arabia



DAMMAM

CO-INSTRUCTOR

Malak O. Alshlowi, PhD, RT

Assistant Professor and Lecturer,
 Respiratory Care Department
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 Dammam, Saudi Arabia



DAMMAM

CO-INSTRUCTOR

Masarrah Y. AlJarroof, PhD, RRT, RPFT, NCTTP

Assistant Professor of Respiratory Care
 Respiratory Therapy Department
 Mohammed AIMana College for Medical
 Sciences
 Dammam, Saudi Arabia

DAY 2 - FRIDAY, 16 JANUARY 2026 - AM

07:00 - 07:50 Registration

07:50 - 08:00 Opening and Welcome Message

08:00 - 10:15 **SESSION 1: Pediatric & Neonatal Respiratory Care**

Chairs:

08:00 - 08:45 Pediatric Pathophysiology, Assessment and Monitoring
Dana L. Evans - USA 🇺🇸

08:45 - 09:30 Neonatal Pathophysiology, Assessment and Monitoring
Emilee Lamorena - USA 🇺🇸

09:30 - 10:15 Respiratory Intensive Care of Neonates
Huayan Zhang - China/USA 🇺🇸🇨🇳

10:15 - 10:45 COFFEE BREAK

10:45 - 12:15 **SESSION 2: Pediatric & Neonatal Respiratory Care**

Chairs:

10:45- 11:30 Neonatal & Pediatric Resuscitation
Huayan Zhang - China/USA 🇺🇸🇨🇳

11:30 - 12:15 Neonatal & Pediatric Ventilation
Emilee Lamorena - USA 🇺🇸

12:15 - 13:15 LUNCH BREAK

MORNING SESSIONS

DAY 2 - FRIDAY, 16 JANUARY 2026 - PM

Fundamentals of Respiratory Care- Pediatric & Neonatal Workshops/ Skill Stations
14:00-17:15 | Afternoon Sessions

TIME	SKILL STATION 1	SKILL STATION 2
Subject	Neonatal & Pediatric Resuscitation	Neonatal & Pediatric Ventilation
Instructors	Huayan Zhang USA/China 🇺🇸🇨🇳	Emilee Lamorena USA 🇺🇸
	Talal A. Altamimi KSA KHOBAR	Ahmed I. Algahtani KSA RIYADH
	Ghadeer AlOwaywi KSA DAMMAM	Rawaa Felemban KSA JEDDAH
14:00 - 15:30	NEOPED GROUP A	NEOPED GROUP B
	5 MINUTES STRETCH	5 MINUTES STRETCH
15:30 - 16:00	COFFEE BREAK	
16:00 - 17:15	NEOPED GROUP B	NEOPED GROUP A
	5 MINUTES STRETCH	5 MINUTES STRETCH

17:30 - 18:30 FRCS Course NeoPed - POST TEST

End of Day 2

DAY 2 - FRIDAY, 16 JANUARY 2026 | 14:00 - 17:15

WORKSHOP - 1

Neonatal & Pediatric Resuscitation

OBJECTIVES:

Part 1: Bag & mask ventilation (BMV)

- Know the bag-valve-mask devices
- Demonstrate appropriate BMV techniques
- Understand the importance of pressure control during BMV

Part 2: Artificial airways

- Know the types of common artificial airways used in neonates and pediatric patients
- Demonstrate appropriate insertion techniques

Part 3: Team-based CPR

- Understand the importance of team coordination during resuscitation
- Know the procedure of CPR
- Demonstrate appropriate techniques of chest compression and defibrillation

INSTRUCTORS



LEAD INSTRUCTOR

Huayan Zhang, MD
Professor of Clinical Pediatrics and
Attending Neonatologist,
Director, Newborn and Infant Chronic Lung
Disease Program
Children's Hospital of Philadelphia-University
of Pennsylvania, Philadelphia, USA
Chief, Division of Neonatology,
Guangzhou Women & Children's Medical Center,
Guangzhou Medical University
Guangzhou, China



CO-INSTRUCTOR

Talal Altamimi, MD
Consultant Neonatologist,
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King Fahd University Hospital
Imam Abdulrahman bin Faisal University
Khobar, Saudi Arabia

KHOBAR



CO-INSTRUCTOR

Ghadeer AlOwaywi, MSRC, RT
Senior Respiratory Therapist and Lecturer
Quality Coordinator, Respiratory Therapy Program
Mohammed Al-Mana College for Medical
Sciences
Dammam, Saudi Arabia

DAMMAM

DAY 2 - FRIDAY, 16 JANUARY 2026 | 14:00 - 17:15

WORKSHOP - 2

Neonatal & Pediatric Mechanical Ventilation

OBJECTIVES:

Part 1: Ventilator Management for the Neonatal Patient

- Recognize of respiratory failure in the neonate and successfully demonstrate intubation and airway securement for neonatal patient.
- Demonstrate proper ventilator setup of mechanical ventilator for neonatal patient, including selecting ventilator circuit and humidification system, calibration, choosing appropriate initial parameters, and setting up appropriate alarms.
- Discuss ventilator management strategies and decision making based on patient assessment, blood gas analysis, and clinical data.
- Recognize need to escalate to high frequency jet ventilation, and choose appropriate initial settings.

Part 2: Ventilator Management for the Pediatric Patient

- Recognize impending respiratory failure in the pediatric patient, demonstrate proper setup and selection of initial parameters of non-invasive ventilation.
- Recognize of respiratory failure in the neonate and successfully demonstrate intubation and airway securement of pediatric patient.
- Demonstrate proper ventilator setup of mechanical ventilator for pediatric patient, including selecting ventilator circuit and humidification system, calibration, choosing appropriate initial parameters, and setting up appropriate alarms.
- Discuss ventilator management strategies and decision making based on waveform analysis, patient assessment, blood gas analysis, and clinical data.

Part 3: Advanced / Non-Conventional Mechanical Ventilation in Neonatal - Pediatric Care

- Discuss theory of mechanism and management strategies for Neurally Adjusted Ventilatory Assist (NAVA)
- Discuss theory of mechanism and management strategies for High Frequency Oscillatory Ventilation (HFOV)

INSTRUCTORS



LEAD INSTRUCTOR

Emilee Lamorena, MSc, RRT, RRT-NPS
Director of Respiratory, Pulmonary,
and Asthma Program
Children's Hospital of Orange County (CHOC)
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AARC Chair of Neonatal/Pediatric Section



CO-INSTRUCTOR

Ahmed I. Algahtani, MSc, RRT, RRT-NPS
Senior Respiratory Care Specialist,
Pediatric Respiratory Care Division,
Prince Sultan Military Medical City
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RIYADH



CO-INSTRUCTOR

**Rawaa Felemban, MMed, RRT-NPS,
RRT-ACCS, PMP**
Respiratory Care Specialist
King Faisal Specialist Hospital & Research Center
Jeddah, Saudi Arabia

JEDDAH

DAY 2 - FRIDAY, 16 JANUARY 2026 - PM

SESSION 1: Interactive Sessions

13:00 - 13:45 International Collaboration in Respiratory Care Education

Moderators: Dr. Jerome M. Sullivan - USA Dr. Noor A. Alkhathlan - KSA

Discussants:
Dr. Douglas S. Gardenhire
Georgia State University, Atlanta, GA, USA
Dr. J. Brady Scott
RUSH University, Chicago, IL, USA
Dr. Ghazi A Alotaibi
Arabian Gulf University, Bahrain

- Discussion Topics:
- Dual Degrees/ Bridging Possibilities
 - Curriculum Collaboration
 - Advanced Degrees Requirements
 - Joint Research Possibilities
 - Faculty Exchange/ Visting Professors
 - NBRC Registry Eligibility
 - Distance Learning
 - Optional Practice Therapy (OPT)
 - Continuing Practice Therapy (CPT)

13:45 - 14:30 Meet The Experts In Respiratory Care Services Management

Moderators: Dr. Jerome M. Sullivan - USA Mr. Daniel D. Garrett - USA

Discussants:
Dana L. Evans, MHA, RRT
Respiratory Regional Director, Midwest at Advocate Health Downers Grove, Illinois, USA
Carl R. Hinkson, MSc, RRT
Senior Director Ancillary Services, Providence Health & Services Everett, WA, USA
Emilee Lamorena, MSc, RRT
Director of RT, Pulmonary, & Asthma Program Children's Hospital of Orange County (CHOC) Orange, California, USA

- Discussion Topics:
- Territory and competition between services
 - Departments structures, past and present
 - Relationship, medical staff, administration, other services
 - Hiring, Retention, Morale, and Burnout
 - Salaries and Incentives
 - RTs Specialization

SESSION 2: Hot Topics In Pulmonary Function Testing

Chairs: Dr. Asma O. Alamoudi - KSA

14:30 - 14:50 Mastering the Latest ATS Guidelines: Essential for Accurate Reporting and Interpretation. - Fatimah J. Alshammari KSA RIYADH
14:50 - 15:10 New Insights; The Evolving Role of Forced Oscillation Techniques in Pulmonary Function Testing. - Afnan S. AlRaimi KSA DAMMAM

15:10 - 15:30

15:30 - 16:00 COFFEE BREAK

DAY 2 - FRIDAY, 16 JANUARY 2026 - PM

SESSION 3: Meet The Industries Sessions

Chairs:

16:00 - 16:10

16:10 - 16:20

16:20 - 16:30

16:30 - 16:40

16:40 - 16:50

SESSION 4: Abstracts Presentation

Moderators:

16:50 - 16:55

16:55 - 17:00

17:00 - 17:05

17:05 - 17:10

17:10 - 17:15

End of Day 2

DAY 3 - SATURDAY, 17 JANUARY 2026 - AM

SESSION 5: Emerging Challenges and Innovations in Respiratory Care

Chairs:

- 08:00 - 08:25 **Shaping the Future in Healthcare: The AI Revolution in Respiratory Care**
J. Brady Scott - USA 🇺🇸
- 08:25 - 08:50 **What is Evidence-Based Respiratory Care?**
Dean R. Hess - USA 🇺🇸
- 09:15 - 09:40 **Healing the Healers; Burnout in Respiratory Care; Recognize, Respond, Recover**
Carl R. Hinkson - USA 🇺🇸
- 10:05 - 10:30 **The Future of Respiratory Care Profession and the Role of the AARC**
Dana L. Evans - USA 🇺🇸

10:30 - 11:00 **COFFEE BREAK**

SESSION 6: Current Advances in Adult Respiratory Critical Care

Chairs:

- 11:00 - 11:25 **Individualized PEEP vs. PEEP Tables - What Does the Evidence Tell Us?**
Thomas Piraino - Canada 🇨🇦
- 11:25 - 11:50 **HFNC Oxygen Therapy: Physiological Mechanisms, Initiation, and Management**
J. Brady Scott - USA 🇺🇸
- 11:50 - 12:15 **Using Pulse Oximetry Wisely**
Dean R. Hess - USA 🇺🇸
- 12:15 - 12:40 **Asynchrony: Consequences and Management**
Thomas Piraino - Canada 🇨🇦

12:40 - 13:40 **LUNCH BREAK**

DAY 3 - SATURDAY, 17 JANUARY 2026 - PM

SESSION 7: NeoPed Respiratory Critical Care, Asthma/COPD, and Sleep Disorders

Chairs:

- 13:40 - 14:05 **Modern Approaches to Infant Ventilation with Hypoxic Respiratory Failure; Innovations and Insights**
Huayan Zhang - USA/China 🇺🇸🇨🇳
- 14:05 - 14:30 **What We've Learned About Bronchiolitis and High Flow Nasal Cannula**
Emilee Lamorena - USA 🇺🇸
- 14:30 - 14:55 **Advances in Asthma and COPD Treatment: What's New and What's Next?**
Majdy M. Idrees - KSA 🇸🇦
- 14:55 - 15:20 **Simulation-Based Learning Reimagined: What's New, What Works, What's Next**
J. Brady Scott - USA 🇺🇸

15:20 - 15:50 **COFFEE BREAK**

SESSION 8: Respiratory Care Education; Challenges and Breakthroughs

Chairs:

- 15:50 - 16:15 **Optimizing Clinical Training: Strengthening Preceptor-Student Partnership**
Douglas S. Gardenhire - USA 🇺🇸
- 16:15 - 16:40 **Why Teams Fail: The Leadership Imperative in Transforming The Culture of Your Team**
Emilee Lamorena - USA 🇺🇸
- 16:40 - 17:05 **What I've Learned After 50 Years in Respiratory Care**
Dean R. Hess - USA 🇺🇸

17:05 - 17:30 **AWARDS & CLOSING REMARKS**

End of Day 3

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