

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



FRCS
COURSES
Adults
15-16 JANUARY
NeoPed
16 JANUARY

CONFERENCE & EXHIBITION

VENUE: MOHAMMED ALMANA COLLEGE FOR MEDICAL SCIENCES



In Collaboration With:
 American Respiratory Care Foundation

المجلس العربي لرعاية التنفس
Arab Society for Respiratory Care

Event Hosted By:
 كلية محمد المانع
جامعة الأمانة للعلوم
Mohammed Almane College for Medical Sciences



مجمع جنوب تمور كلية
الملك عبدالعزيز
Johns Hopkins Aramco Healthcare



SCIENTIFIC PROGRAM



With Gracious Invitation

The Conference is Hosted By:



كلية محمد المانع
للعلوم الطبية

MOHAMMED AL MANA COLLEGE
FOR MEDICAL SCIENCES



WELCOME MESSAGE

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

Chairman:

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Chairman & Executive Director,
Best of AARC2026 Conference and
FRCS Courses, Dammam, KSA
Co-Chairman and Managing Editor, FRCSC
Vice-Chair, AARC International Fellowship Committee
Riyadh, Saudi Arabia

Co-Chairman:

Jerome M. Sullivan, PhD, RRT, FAARC
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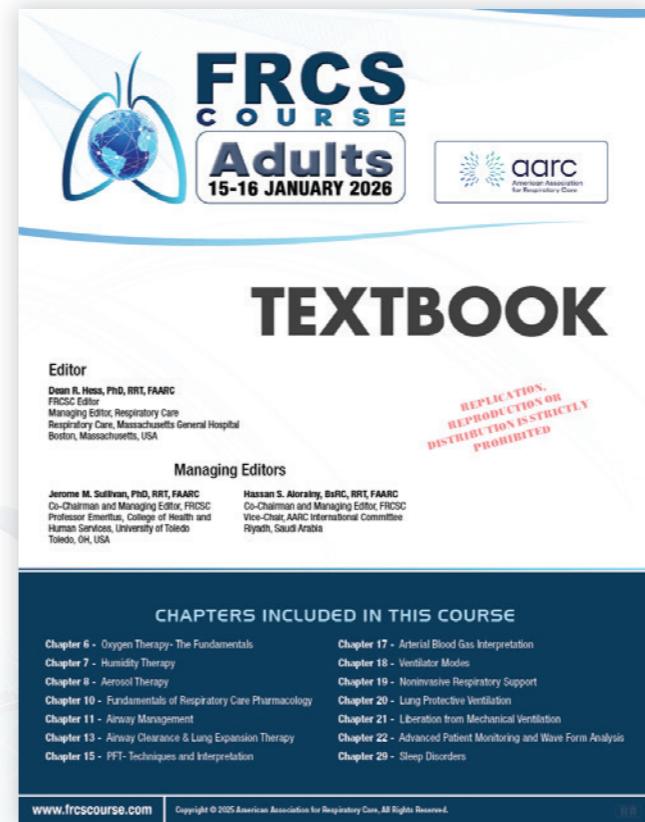
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WHAT DOES EACH INCLUDE?

			
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 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 Workshop).		✓
7.	Receive the FRCS-Adults Course textbook (~270 pages).		✓ (see image)
8.	FRCS-NeoPed 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 Workshop).		✓
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?



FRCS

FUNDAMENTAL RESPIRATORY CARE SUPPORT COURSE



TEXTBOOK



**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	FRCS COURSE Adults 15-16 JANUARY	MACHS Classrooms	FRCS COURSE Adults 15-16 JANUARY	MACHS Main Auditorium	FRCS COURSE Adults 15-16 JANUARY	MACHS Main Auditorium		
	<ul style="list-style-type: none"> Oxygen Therapy; The Fundamentals Humidity Therapy Aerosol Therapy Airway Clearance & Lung Expansion Therapy Airway Management Fundamentals of Respiratory Care Pharmacology Sleep Disorders 	WORKSHOPS	<ul style="list-style-type: none"> Aerosol Therapy 	<ul style="list-style-type: none"> Pediatric Pathophysiology, Assessment and Monitoring Neonatal Pathophysiology, Assessment and Monitoring Respiratory Intensive Care of Neonates Neonatal & Pediatric Resuscitation Neonatal & Pediatric Ventilation 	MORNING		<ul style="list-style-type: none"> 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	MACHS Main Auditorium	FRCS COURSE Adults 15-16 JANUARY	MACHS Classrooms	FRCS COURSE NeoPed 16 JANUARY	MACHS Main Auditorium	FRCS COURSE Adults 15-16 JANUARY		
AFTERNOON	<ul style="list-style-type: none"> 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 	WORKSHOPS	WORKSHOPS	<ul style="list-style-type: none"> Noninvasive Respiratory Support 	<ul style="list-style-type: none"> Neonatal & Pediatric Resuscitation 	INTERACTIVE SESSIONS <ul style="list-style-type: none"> International Collaboration in Respiratory Care Education Meet The Experts In Respiratory Care Services Management HOT TOPICS IN PULMONARY FUNCTION TESTING & INTERPRETATIONS <ul style="list-style-type: none"> Mastering the Latest ATS Guidelines: Essential for Accurate Reporting and Interpretation. New Insights; The Evolving Role of Forced Oscillation Techniques in Pulmonary Function Testing. Forced Oscillation Technique (FOT): A New Technology MEET THE INDUSTRIES SESSIONS <ul style="list-style-type: none"> Ventilation During CPR: Friend or Foe? Optimizing Inhalation: Better Outcomes with AeroChamber Tracheostomy Tubes: Overview and Clinical Applications Clearing the Airways Effectively: When and How to Use the Vest ABSTRACT PRESENTATION	<ul style="list-style-type: none"> Modern Approaches to Infant Ventilation with Hypoxic Respiratory Failure; Innovations and Insights What We've Learned About Bronchiolitis and High Flow Nasal Cannula Advances in Asthma and COPD Treatment: What's New and What's Next? How to Achieve a Successful Career? 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 		
	Pulmonary Function Testing	WORKSHOPS	WORKSHOPS	Noninvasive Respiratory Support	Neonatal & Pediatric Resuscitation	      	AFTERNOON	MACHS Main Auditorium	FRCS COURSE Adults 15-16 JANUARY

[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: Taha T. Ismaeil - RIYADH Mohammed K. AlShehri - RIYADH

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: Mohammed D. AlAhmari - DAMMAM Tareq F. Alotaibi - RIYADH

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: Mohie Aldeen Khalifa - EGYPT Yassin T. Ismaiel - MADINAH

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: Sami M. Al Jerayed - DAMMAM Yousef D. Alqurashi - DAMMAM

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

08:00 - 12:00 | Morning Sessions

TIME	WORKSHOP 1	WORKSHOP 2	WORKSHOP 3
Subject	Aerosol Therapy	Airway Clearance & Lung Expansion Therapy	Airway Management
Instructors	Douglas S. Gardenhire USA 	Carl R. Hinkson USA 	Rachael C. Sullivan USA 
08:00 - 09:10	ADULT GROUP A Chair/Coordinator Fathadin A. Alahdal - JIZAN	ADULT GROUP B Chair/Coordinator Aqeel J. Almayouf - QATIF	ADULT GROUP C Chair/Coordinator Fouad Al Mutairi - JEDDAH
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

13:00 - 18:15 | Afternoon Sessions

TIME	WORKSHOP 4	WORKSHOP 5	WORKSHOP 6
Subject	Noninvasive Respiratory Support	Ventilator Modes	Pulmonary Function Testing
Instructors	Dean R. Hess USA 	Thomas Piraino Canada 	Hajed M. Al-Otaibi JEDDAH
13:00 - 14:10	Ahmed S. BaHamman RIYADH	Abdulaziz Alyami DHAHRAN	Malak O. Alshlowi DAMMAM
14:10 - 15:30	Abdullah Alharthi ALAHSA	Noorah A. AlNoaimi DAMMAM	Masarrah Y. AlJaroof DAMMAM
15:30 - 16:00	COFFEE BREAK		
16:00 - 17:15	ADULT GROUP C	ADULT GROUP A	ADULT GROUP B

17:30 - 18:15 FRCS Course Adults - POST TEST (Main Auditorium)

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
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CO-INSTRUCTOR

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

Laila K. Jeftawi, MSc, RRT

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



INSTRUCTORS



LEAD INSTRUCTOR

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

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Providence Regional Medical Center Everett,
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Immediate Past President, American
Association for Respiratory Care (AARC)
President, American Respiratory Care
Foundation (ARCF)



CO-INSTRUCTOR

Abrar H. Bokhamseen, BsRC, RRT

Senior Respiratory Therapist
Imam Abdulrahman ibn Faisal
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DAMMAM

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 - 2

Airway Clearance & Lung Expansion Therapy

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

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



CO-INSTRUCTOR
Munyra I. Alhotye, PhD, RRT-NPS
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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

WORKSHOPS

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



CO-INSTRUCTOR
Ahmed S. BaHamman, MD, FRCP, FCCP
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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
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CO-INSTRUCTOR
Abdullah Alharthi, BsRT, RRT
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Al Ahsa, Saudi Arabia



RIYADH

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
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Clinical Specialist-Mechanical Ventilation
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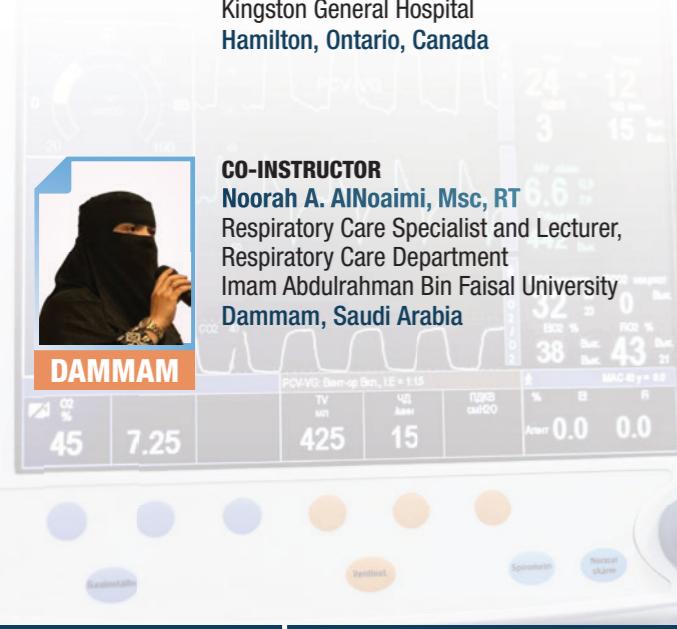
CO-INSTRUCTOR

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Dammam, Saudi Arabia


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



LEAD INSTRUCTOR

Hajed M. Al-Otaibi, PhD, RRT
Associate Professor of Respiratory Therapy
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CO-INSTRUCTOR

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Respiratory Therapy Department
Mohammed AlMana 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

SESSION 1: Pediatric & Neonatal Respiratory Care

Chairs:	Ahmad I. AlHusseini - JEDDAH	Mushabbab Alahmari - BISHA
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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
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SESSION 2: Pediatric & Neonatal Respiratory Care

Chairs:	Saleh S. Algarni - RIYADH	Bandar M. Faqih - ALAHSA
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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
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MORNING SESSIONS

DAY 2 - FRIDAY, 16 JANUARY 2026 - PM
Fundamentals of Respiratory Care- Pediatric & Neonatal Workshops

14:00-18:15 | Afternoon Sessions

TIME	WORKSHOP 1	WORKSHOP 2
Subject	Neonatal & Pediatric Resuscitation	Neonatal & Pediatric Ventilation
Instructors	Huayan Zhang USA/China 	Emilee Lamorena USA 
	Talal A. Altamimi KHOBAR	Ahmed I. Algahtani RIYADH
	Ghadeer AlOwaywi DAMMAM	Rawaa Felemban JEDDAH
14:00 - 15:30	NEOPED GROUP A Chair/Coordinator Fatimah A. Alfaraj - QATIF	NEOPED GROUP B Chair/Coordinator Hamoud H. Alkurd - DAHHRAN
	5 MINUTES STRETCH	5 MINUTES STRETCH
15:30 - 16:00	COFFEE BREAK	
	NEOPED GROUP B	NEOPED GROUP A
16:00 - 17:15	5 MINUTES STRETCH	5 MINUTES STRETCH

17:30 - 18:15 **FRCS Course NeoPed - POST TEST** (Main Auditorium)

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
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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 Extremely Low Birth Weight (ELBW) Premature Neonate

- Recognize of respiratory failure in the premature neonate and successfully demonstrate intubation and airway securement for neonatal patient.
- Discuss optimal ventilator management for ELBW neonates
- Initiate mechanical ventilation in ELBW neonate using Adaptive Ventilation Volume-Targeted Ventilation (VT), and adjust ventilator settings in response to patient assessment, blood gas analysis, and clinical data.
- Troubleshoot common clinical scenarios while managing a patient on VT

Part 2: Ventilator Management for the Pediatric Patient with PARDS

- Recognize of respiratory failure in pediatric patient and successfully demonstrate intubation and airway securement for neonatal patient.
- Identify and diagnose moderate-severe PARDS using PALICC criteria
- Discuss lung-protective ventilation strategies to prevent ventilator-induced lung injury when managing patients with PARDS
- Initiate mechanical ventilation for pediatric patient with PARDS. and adjust ventilator settings in response to patient assessment, blood gas analysis, and clinical data.
- Understand importance of daily Extubation Readiness Tests (ERTs) to safely progress patient to extubation

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
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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

SCIENTIFIC PROGRAM

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 - DAMMAM

Discussants:

Dr. Douglas S. Gordenhire 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/ Visiting 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 & Interpretation

Chairs: Asma O. Almoudi - DHAHRAN

Maher M. Alquaimi - DAMMAM

14:30 - 14:50 Mastering the Latest ATS Guidelines: Essential for Accurate Reporting and Interpretation. - Fatimah J. Alshammari RIYADH

14:50 - 15:10 New Insights; The Evolving Role of Forced Oscillation Techniques in Pulmonary Function Testing. - Afnan S. AlRaimi DAMMAM

15:10 - 15:25 Forced Oscillation Technique (FOT): A New Technology
Pasquale Pompilio -



15:25 - 16:00 COFFEE BREAK

SCIENTIFIC PROGRAM

DAY 2 - FRIDAY, 16 JANUARY 2026 - PM

SESSION 3: Meet The Industries Sessions

Chairs: Abdulsalam A. Alzahrani - JEDDAH

Basmah H. Alanazi - RIYADH

16:00 - 16:10 Ventilation During CPR: Friend or Foe?

Ricardo Cordioli -



16:10 - 16:20 Optimizing Inhalation: Better Outcomes with AeroChamber
Majdy Idrees -



16:20 - 16:30 Tracheostomy Tubes: Overview and Clinical Applications

Julia Böhm -



16:30 - 16:40 Optimizing Airway Clearance in the Intensive Care Unit
TBA

Sh. Abdulrahman AlGosaib CO. L.L.C.

SESSION 4: Abstracts Presentation

Moderators: Jaber S. Alqahtani - DHAHRAN

Amal A. AlAmer - DAMMAM

16:45 - 16:50 Non-Invasive Ventilation in Sickle Cell Disease and Acute Chest Syndrome: A Systematic Review and Meta-Analysis

Fatimah Alkuabi, Makarem Alkhalfaf, Saja Abuzaid, Najla Omar, Ghadeer Alowaywi, Ali Albarhani

16:50 - 16:55 Prevalence, Clinical Correlates, and Small-Airway Features of Preserved Ratio Impaired Spirometry in a Saudi Hospital-Based Cohort - Nowaf Y. Alobaidi, Ali Altoraiabi

16:55 - 17:00 An Innovative 3D-Printed Connector for Safe Switching Between Maximum Inspiratory Pressure Measurements and Mechanical Ventilator Without Patient Disconnection.
Maher Alquaimi, Mohammed Almughaleq, Abdullah Alfaris

17:00 - 17:05 Acute Cardiovascular Responses to Hypoxia and Hypercapnia in Healthy Adults: The Role of the Carotid Body.
Hayyaf Al Dossary, Abdulaziz Bin Saleem, Abdullah Alrayes, Saleh Alotaibi, Mohammed Alanazi, Alya Almudarra, Lames Almutairi, Mohammed Ashoor, Najla Alfadhil, Aljoharah Bin Battal, Reema Alherbish

17:05 - 17:10 Assessing The Efficacy of an Innovative Prototype of A Wearable Transcutaneous Carbon Dioxide Monitor in Healthy Subjects.
Alzahrani Lama, Almutairi Shahad, Alharbi Rana, Nogali Alaaa, Alahmadi Husam

17:10 - 17:25 Abstracts Awards Presentation

17:30 - 18:15 FRCS Course Adults & FRCS Course NeoPed - POST TEST (Main Auditorium)

End of Day 2

DAY 3 - SATURDAY, 17 JANUARY 2026 - AM

SESSION 5: Emerging Challenges and Innovations in Respiratory Care

Chairs:	Jameel Hakeem - JEDDAH	Ahmed M. Alrajeh - ALAHSA
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 	
08:50 - 09:15	Healing the Healers; Burnout in Respiratory Care; Recognize, Respond, Recover Carl R. Hinkson - USA 	
09:15 - 09:40	The Future of Respiratory Care Profession and the Role of the AARC Dana L. Evans - USA 	
09:40 - 10:15	COFFEE BREAK	

SESSION 6: Current Advances in Adult Respiratory Critical Care

Chairs:	Ziyad Al Nufaiei - JEDDAH	Shoug Y. Al Houmoud - JUBAIL
10:15 - 10:40	Individualized PEEP vs. PEEP Tables - What Does the Evidence Tell Us? Thomas Piraino - Canada 	
10:40 - 11:05	HFNC Oxygen Therapy: Physiological Mechanisms, Initiation, and Management J. Brady Scott - USA 	
11:05 - 11:30	Using Pulse Oximetry Wisely Dean R. Hess - USA 	
11:30 - 11:55	Asynchrony: Consequences and Management Thomas Piraino - Canada 	
11:55 - 13:00	LUNCH BREAK	

DAY 3 - SATURDAY, 17 JANUARY 2026 - PM

SESSION 7: NeoPed Respiratory Critical Care, Asthma/COPD

Chairs:	Nowaf Y. Alobaidi - ALAHSA	Raid M. Alzahrani - JEDDAH
13:00 - 13:25	Advances in Asthma and COPD Treatment: What's New and What's Next? Majdy M. Idrees - KSA 	
13:25 - 13:50	Modern Approaches to Infant Ventilation with Hypoxic Respiratory Failure; Innovations and Insights Huayan Zhang - USA/China 	
13:50 - 14:15	What We've Learned About Bronchiolitis and High Flow Nasal Cannula Emilee Lamorena - USA 	
14:15 - 14:40	How to Achieve a Successful Career? Majdy M. Idrees - KSA 	
14:40 - 15:10	COFFEE BREAK	

SESSION 8: Respiratory Care Education: Challenges and Breakthroughs

Chairs:	Saad M. AlRabeeah - DAHHRAN	Hassan Aljohani - RIYADH
15:10 - 15:35	Simulation-Based Learning Reimagined: What's New, What Works, What's Next J. Brady Scott - USA 	
15:35 - 16:00	Optimizing Clinical Training: Strengthening Preceptor–Student Partnership Douglas S. Gardenhire - USA 	
16:00 - 16:25	Why Teams Fail: The Leadership Imperative in Transforming The Culture of Your Team Emilee Lamorena - USA 	
16:25 - 16:50	What I've Learned After 50 Years in Respiratory Care Dean R. Hess - USA 	
16:50 - 17:15	AWARDS & CLOSING REMARKS	

End of Day 3

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