

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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Chairman & Executive Director,
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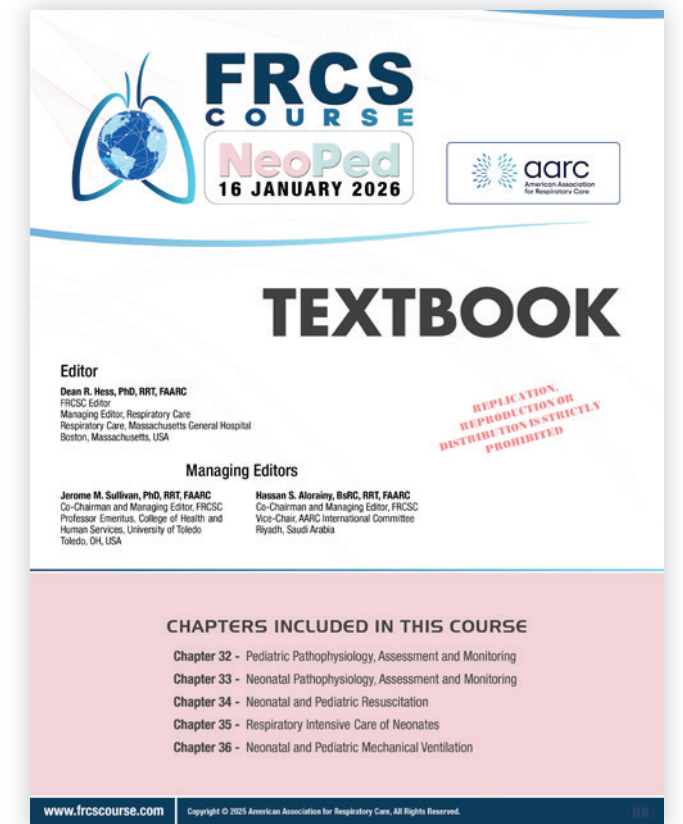
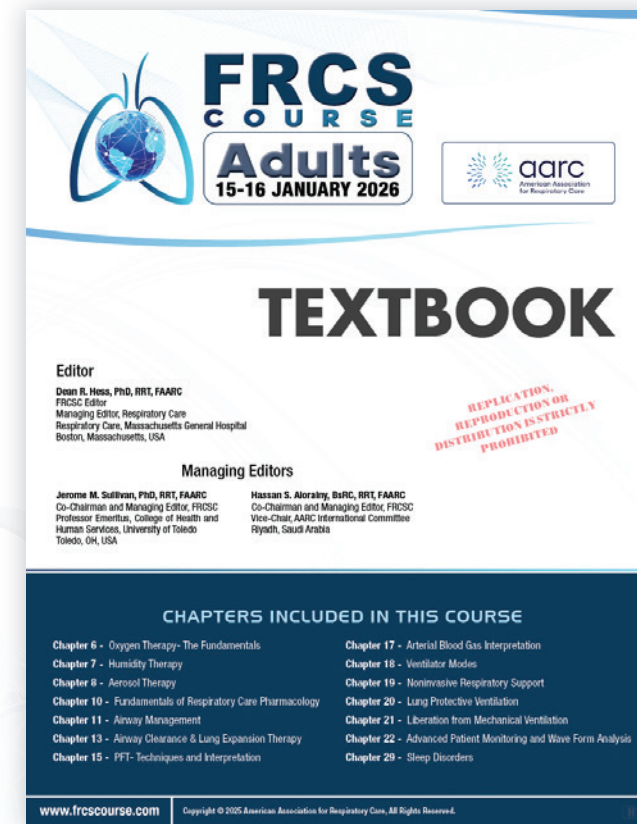
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WHAT DOES EACH INCLUDE?

| | |  |  |  |
|-----|---|---|---|---|
| 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 <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 | MACHS Classrooms <p>SKILL STATIONS/ WORKSHOPS</p> <p>Aerosol Therapy</p> <p>Airway Clearance & Lung Expansion Therapy</p> <p>Airway Management</p> | MACHS Main Auditorium <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 | | | MACHS Main Auditorium <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 | Lunch Break | Lunch Break | | Lunch Break | Lunch Break |
| AFTERNOON | MACHS Main Auditorium <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 | MACHS Classrooms <p>SKILL STATIONS/ WORKSHOPS</p> <p>Noninvasive Respiratory Support</p> <p>Ventilator Modes</p> <p>Pulmonary Function Testing</p> | MACHS Classrooms <p>SKILL STATIONS/ WORKSHOPS</p> <p>Neonatal & Pediatric Resuscitation</p> <p>Neonatal & Pediatric Ventilation</p> | | MACHS Main Auditorium <p>INTERACTIVE SESSIONS</p> <ul style="list-style-type: none"> International Collaboration in Respiratory Care Education Meet The Experts In Respiratory Care Services Management <p>HOT TOPICS IN PULMONARY FUNCTION TESTING & INTERPRETATIONS</p> <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. <p>MEET THE INDUSTRIES SESSIONS</p> <ul style="list-style-type: none"> <p>ABSTRACT PRESENTATION</p> | MACHS Main Auditorium <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 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: | 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: | Shoug Y. Al Houmoud - JUBAIL 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/ 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 DAMMAM | Tariq Aljasser RIYADH | Munyra I. Alhotye RIYADH |
| | Laila Jeftawi RIYADH | Jose Rex N. Navarrosa  KSA DAMMAM | Husam Alahmadi JEDDAH |
| 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/ 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 JEDDAH |
| | Ahmed S. BaHamam RIYADH | Abdulaziz Alyami DHAHRAN | Malak O. Alshlowi DAMMAM |
| | Abdullah Alharthi ALAHSA | Noorah A. AlNoaimi DAMMAM | Masarrah Y. AlJaroorf DAMMAM |
| 13:00 - 14:10 | ADULT GROUP A Chair/Coordinator Ahmed S. Alrowaily - ALJOUF | ADULT GROUP B Chair/Coordinator Hessah G. Alotaibi - RIYADH | ADULT GROUP C Chair/Coordinator Siraj T. Jaishi - RIYADH |
| 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

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Governor's Teaching Fellow
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CO-INSTRUCTOR

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RIYADH



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Dammam
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DAMMAM

INSTRUCTORS



LEAD INSTRUCTOR

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Senior Director Ancillary Services
Providence Health & Services
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

Jose Rex N. Navarro, BSRT, RTRP

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DAMMAM



CO-INSTRUCTOR

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Senior Respiratory Therapist
Imam Abdulrahman ibn Faisal
Hospital, NG
Dammam, Saudi Arabia

DAMMAM

DAMMAM

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



RIYADH

CO-INSTRUCTOR

Munyra I. Alhotye, PhD, RRT-NPS
 Assistant Professor, Senior Respiratory Therapist,
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 Department of Respiratory Therapy
 College of Applied Medical Sciences
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JEDDAH

CO-INSTRUCTOR

Husam Alahmadi, PhD, RRT, RRT-NPS, RRT-RPFT, AE-C
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 Therapy
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 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

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 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
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CO-INSTRUCTOR
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Education Lead, Specialized Therapy and
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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
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Director, Respiratory Therapy
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DAMMAM

CO-INSTRUCTOR
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DAMMAM

CO-INSTRUCTOR
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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: | Ahmad I. AlHusseini - JEDDAH Abdulsalam A. Alzahrani - JEDDAH | |
| 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: | Saleh S. Algarni - RIYADH Bandar M. Faqihi - ALAHTSA | |
| 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 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. Alkurdi - DHAHRAN |
| | 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,
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CO-INSTRUCTOR Talal Altamimi, MD

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KHOBAR



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Quality Coordinator, Respiratory Therapy Program
Mohammed Al-Mana College for Medical
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Dammam, Saudi Arabia

DAMMAM

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

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Senior Respiratory Care Specialist,
Pediatric Respiratory Care Division,
Prince Sultan Military Medical City
Riyadh, Saudi Arabia

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 - **DAMMAM**

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: Asma O. Alamoudi - **DHAHRAN**

Maher M. Alquaime - **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 - 15:30

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:

Jaber S. Alqahtani - **DHAHRAN**

Mushabbab Alahmari - **BISHA**

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: | 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 🇺🇸 | |
| 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: | Ziyad Al Nufaiei - JEDDAH |
| 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

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| Chairs: | Nowaf Y. Alobaidi - ALAHSa | Raid M. Alzahrani - JEDDAH |
| 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

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| Chairs: | Saad M. AlRabeeah - DHAHRAN | Hassan Aljohani - RIYADH |
| 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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