

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



SCIENTIFIC PROGRAM





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



Dear Colleagues,

We are happy to welcome you to the upcoming conference & courses established under the auspice of **The American Association for Respiratory Care (AARC)** in collaboration with the **American Respiratory Care Foundation (ARCF)** and the **Saudi Society for Respiratory Care** presenting **The Best of AARC2026 & FRCS Courses (CONFERENCE & EXHIBITION)** to be held at **Mohammed Almana College for Medical Sciences, Dammam, Saudi Arabia on 15-17 January 2026.**

The **FRCS Scientific Committee** is planning a comprehensive program covering all important aspects of Respiratory Care, including but not limited to the fundamental respiratory care modalities such as anatomy and physiology, patient assessment, Oxygen and Humidity Therapy, Aerosol Therapy, and Airway Clearance and Lung Expansion Therapies.

We cordially invite our friends and colleagues in the Equipment and Pharmaceutical industry to take part in this most awaited CONFERENCE & EXHIBITION. The scientific program will include **twenty four (24) lectures** covering all aspects of Adult and Neonatal/ Pediatric Fundamentals of Respiratory Care, complemented by twelve **(12) clinical skill workshops**. Also, it will include advanced aspects of Respiratory Critical Care such as: Asthma and COPD Management, Airway Management, Noninvasive Respiratory Support, Ventilator Modes, Advanced Patient Monitoring & Waveform Analysis, Lung Protective Ventilation Approaches in Various Diseases, Liberation from Mechanical Ventilation, Cardiopulmonary Disorders in Acute Respiratory Care, PFT, and Sleep Disorders. The conference will also include a full day with more than **sixteen (16) state-of-the-art lectures**, debates, pro/ con on the most recent modalities of respiratory care. Whether you're a seasoned professional or just beginning your journey in healthcare, this course is designed to equip you with the knowledge and skills needed to excel in respiratory care. Throughout this program, you'll delve into the intricacies of respiratory anatomy, learn about common respiratory conditions, master diagnostic techniques, and explore the latest advancements in respiratory treatment modalities.

We would like to extend sincere gratitude and appreciation to our host, **Mohammed Almana College for Medical Sciences**, for allowing us to hold the first and inaugural **Fundamental Respiratory Care Support Course** at their beautiful campus.

We also would like to express our deepest gratitude for our sponsors, without their genuine support, the event would not happen, we must not forget our faculty members and participants for their time and efforts.

We look forward to welcoming you at the Conference & courses,

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

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Certified instructors and Authors

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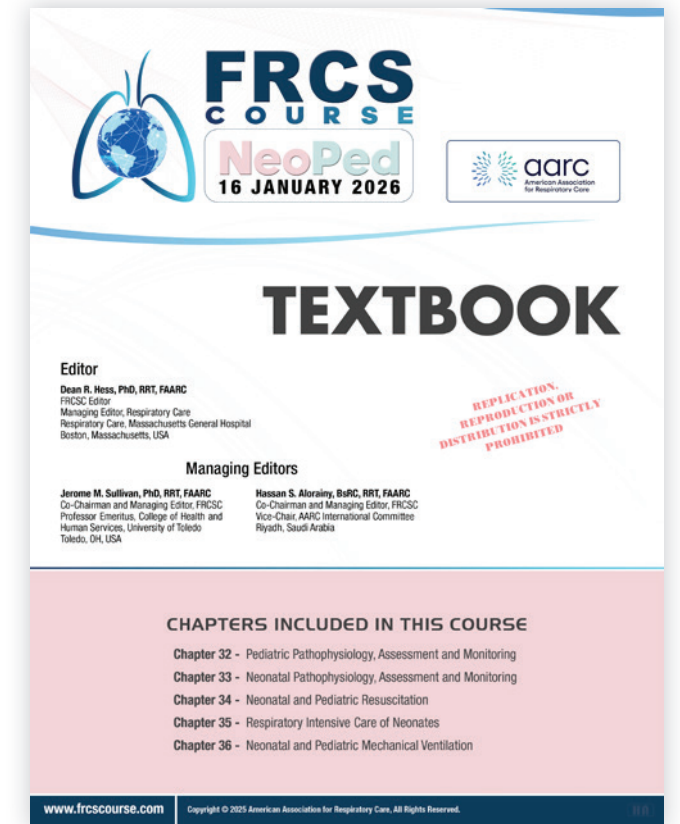
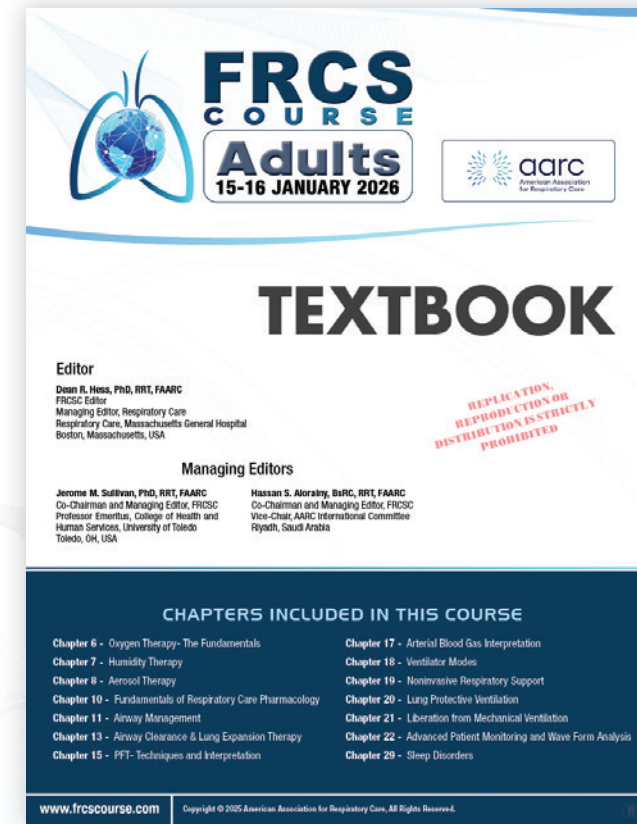


WHAT DOES EACH INCLUDE?

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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.		✓	✓





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	 MACHS Classrooms	 MACHS Main Auditorium		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	SKILL STATIONS/ WORKSHOPS	- Pediatric Pathophysiology, Assessment and Monitoring - Neonatal Pathophysiology, Assessment and Monitoring - Respiratory Intensive Care of Neonates - Neonatal & Pediatric Resuscitation - Neonatal & Pediatric Ventilation			- 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		
		Aerosol Therapy						
		Airway Clearance & Lung Expansion Therapy						
		Airway Management						
Lunch Break		Lunch Break			Lunch Break		Lunch Break	
AFTERNOON	 MACHS Main Auditorium	 MACHS Classrooms	 MACHS Classrooms		AFTERNOON	 MACHS Main Auditorium	 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	SKILL STATIONS/ WORKSHOPS	SKILL STATIONS/ WORKSHOPS			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	- 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	
		Noninvasive Respiratory Support	Neonatal & Pediatric Resuscitation					
		Ventilator Modes						
		Pulmonary Function Testing	Neonatal & Pediatric Ventilation					

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 🇨🇦

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
		Jose Rex N. Navarrosa KSA DAMMAM	
08:00 - 09:10	ADULT GROUP A	ADULT GROUP B	ADULT GROUP C
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. BaHamam KSA RIYADH	J. Brady Scott USA 🇺🇸	Malak O. Alshlowi KSA DAMMAM
			Masarrah Y. AlJaroorf KSA DAMMAM
13:00 - 14:10	ADULT GROUP A	ADULT GROUP B	ADULT GROUP C
14:10 - 15:30	ADULT GROUP B	ADULT GROUP C	ADULT GROUP A
15:30 - 16:00	COFFEE BREAK		
16:00 - 17:10	ADULT GROUP C	ADULT GROUP A	ADULT GROUP B

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

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 - 13:00 LUNCH BREAK

MORNING SESSIONS

FRIDAY, 16 JANUARY 2026 PM

Fundamentals of Respiratory Care- Pediatric & Neonatal Workshops/ Skill Stations
13:00-17:30 | 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 Altamimi, MD KSA KHOBAR		Ahmed I. Algahtani KSA RIYADH	
14:00 - 15:30	NEO GROUP A		NEO GROUP B	
		5 MINUTES STRETCH		5 MINUTES STRETCH
15:30 - 16:00	COFFEE BREAK			
16:00 - 17:30	NEO GROUP B		NEO GROUP A	
		5 MINUTES STRETCH		5 MINUTES STRETCH

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

DAY 2 - FRIDAY, 16 JANUARY 2026

SESSION 1: Interactive Sessions

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

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

Discussants: **Dr. Douglas S. Gardenhire**  Georgia State University, Atlanta, GA, USA **Dr. J. Brady Scott**  RUSH University, Chicago, IL, USA

- 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: **Jerome M. Sullivan - USA**  **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:

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

SESSION 3: Meet The Industries Sessions

Chairs:

16:00 - 16:15

16:15 - 16:30

16:30 - 16:45

SESSION 4: Abstracts Presentation

Moderators:

16:45 - 16:50

16:50 - 16:55

16:55 - 17:00

17:00 - 17:05

17:05 - 17:10

DAY 3 - SATURDAY, 17 JANUARY 2026

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

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 TBA
TBA
- 14:55 - 15:20 Advances in Asthma and COPD Treatment: What's New and What's Next?
Majdy M. Idrees - KSA 🇸🇦

15:20 - 15:50 COFFEE BREAK

SESSION 8: Respiratory Care Education; Challenges and Breakthroughs

Chairs:

- 15:50 - 16:15 Simulation-Based Learning Reimagined: What's New, What Works, What's Next
J. Brady Scott - USA 🇺🇸
- 16:15 - 16:40 Optimizing Clinical Training: Strengthening Preceptor-Student Partnership
Douglas S. Gardenhire - USA 🇺🇸
- 16:40 - 17:05 Why Teams Fail: The Leadership Imperative in Transforming The Culture of Your Team
Emilee Lamorena - USA 🇺🇸
- 17:05 - 17:30 What I've Learned After 50 Years in Respiratory Care
Dean R. Hess - USA 🇺🇸

17:30 - 17:45 AWARDS & CLOSING REMARKS



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