

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:



الجمعية السعودية للرعاية التنفسية



Event Hosted By:



مركز جونز هوبكنز
أرامكو الطبي
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



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:

Hassan S. Alorainy, BsRC, RRT, FAARC
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
Co-Chairman and Managing Editor, FRCSC
Professor Emeritus, College of Health and Human Services
University of Toledo
Toledo, OH, USA

Chairman:

Hassan S. Alorainy, BsRC, RRT, FAARC
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
Co-Chairman and Managing Editor, FRCSC
Professor Emeritus,
College of Health and Human Services
University of Toledo
Toledo, OH, USA

Committee Members:

Dean R. Hess, PhD, RRT, FAARC
FRCSC Editor
Editor, Respiratory Care Reports
Managing Editor, Respiratory Care
Respiratory Care, Massachusetts
General Hospital
Boston, Massachusetts, USA

Sam P. Giordano, MBA, RRT, FAARC
Chair, USA COPD Coalition
AARC Executive Director Emeritus
Senior Member, FRCSC Executive Committee
Dallas, TX, USA

J. Brady Scott, PhD, RRT, ACCS, AE-C, FAARC, FCCP
Professor and Program Director
Respiratory Care Program
Department of Cardiopulmonary Sciences-
Division of Respiratory Care, RUSH University
Chicago, IL, USA

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

Dana L. Evans MHA, RRT, RRT-NPS, FACHE, FAARC
Respiratory Regional Director,
Midwest at Advocate Health
Downers Grove, Illinois, USA
President, American Association for
Respiratory Care

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
President, American Respiratory Care
Foundation (ARCF)

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

FACULTY MEMBERS

Certified instructors and Authors

FACULTY MEMBERS

Certified instructors and Authors



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



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



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



Daniel D. Garrett, CAE
Executive Director,
American Association for Respiratory Care
Irving, Texas, USA



Dana L. Evans, MHA, RRT, RRT-NPS, FACHE, FAARC
Respiratory Regional Director,
Midwest at Advocate Health
Downers Grove, Illinois, USA
President, American Association for
Respiratory Care



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



Majdy M. Idrees, MD, FRCPC, FPVRI
Head, Pulmonary Vascular Unit
Prince Sultan Military Medical City
Riyadh, Saudi Arabia
Adjunct Professor of Respiratory Medicine
University of British Columbia,
Vancouver, Canada



Hajed M. Al-Otaibi, PhD, RRT
Associate Professor of Respiratory Therapy
Vice Dean for Postgraduate Studies and
Scientific Research,
Director, Respiratory Therapy
Department, King AbdulAziz University
Jeddah, Saudi Arabia



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



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 and Children's Medical Center,
Guangzhou Medical University
Guangzhou, China



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



J. Brady Scott, PhD, RRT, ACCS, AE-C, FAARC, FCCP
Professor and Program Director
Respiratory Care Program
Department of Cardiopulmonary Sciences-
Division of Respiratory Care, RUSH University
Chicago, IL, USA



Rioldida V. Diola, MD, RTRP, FPCP, FPCCP
Consultant and Head Intensive Care Unit,
St Luke's Medical Center
ECMO and Chest Ultrasound Specialist
Faculty, St Luke's College of Medicine
Head, Section of Pulmonology, De Los
Santos Medical Center
Manila, Philippines



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
President, American Respiratory Care
Foundation (ARCF)



HOSTING & LOCAL TASKFORCE



MACHS

Sakinah Almashhed, MSRC, RRT
Senior Respiratory Therapist
Lecturer in the Respiratory Therapy Program
Head, Respiratory Therapy Program,
Mohammed Almana College for Medical Sciences
Dammam, Saudi Arabia



IAU

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



PSMCHS

Ayadh Y. AL Ayadhi, BSc, MSC, TOT
Lecturer, Head of Respiratory Care Department
Prince Sultan Military College of Health Science
Dhahran, Saudi Arabia



IAU

Noor A. AL-Khathlan, PhD, RT
Associate Professor, Consultant of Respiratory
Care & Pulmonary Function Testing
Vice Dean of Development and
Community Partnership
Chair of the Advisory Committee, Respiratory Care
Program in Saudi Universities
College of Applied Medical Sciences
Imam Abdulrahman bin Faisal University
Dammam, Saudi Arabia



JHAH

Abdullah Al Mohammadi, MHA, RRT
Director, Respiratory Care Services Division
John Hopkins Aramco Healthcare
Dhahran, Saudi Arabia



MACHS

Mustafa Almahdi, BSRC, RT
Chair, Respiratory Therapy Laboratory Unit
Mohammed Almana College for Medical Sciences
Dammam, Saudi Arabia

LOCAL COMMITTEE FACULTY MEMBERS and Collaborating Departments

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DAMMAM

Abdullah A. Almojaibel, PhD, RRT
Assistant Professor and Consultant Respiratory Care, Department of Respiratory Care
Imam Abdulrahman Bin Faisal University
Dammam, Saudi Arabia
President, Saudi Society for Respiratory Care



RIYADH

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



RIYADH

Fatimah J. Alshammari, MHS, RRT, ACCS, RRT-NPS, RPFT
Head, Respiratory Services
Department of Medicine,
Prince Sultan Military Medical City
Lecturer, Princess Nourah
Bint Abdulrahman University
Riyadh, Saudi Arabia



DHAHRAN

Saad M. AlRabeeah, PhD, RRT-SDS
Consultant & Assistant Professor of Respiratory Care
IRB Chairman, Prince Sultan Military College for Health Science
Academic Accreditation Reviewer, Education and Training Evaluation Commission
Dhahran, Saudi Arabia



RIYADH

Ahmed S. Alaqeily, BsRT, RRT, NPS & PMP
Director, Respiratory Services
King Abdulaziz Medical City
Riyadh, Saudi Arabia



DAMMAM

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



DHAHRAN

Jaber S. Alqahtani, PhD, MBA, MSc ACP CC, RRT, ACCP, AFHEA, FCCP
Consultant & Assistant Professor
Department of Respiratory Care
Director, Scientific Research & Publication
Prince Sultan Military College of Health Sciences
Dhahran, Saudi Arabia



DAMMAM

Bashair A. Alfozan, MsRC, RRT
Lecturer, Respiratory Care Department
College of Applied Medical Sciences
Imam Abdulrahman bin Faisal University
Dammam, Saudi Arabia



RIYADH

Abdulraheem AlZahrani, MsRT, RRT-NPS-ACCS, RPFT, CCMP
Director, Respiratory Care Administration
King Fahad Medical City
Riyadh Second Health Cluster
Riyadh, Saudi Arabia



JUBAIL

Shoug Y. Al Houmoud, PhD, RRT
Assistant Professor and Consultant Respiratory Care
Vice Dean, Academic Affairs, College of Applied Medical Sciences- Jubail
Imam Abdulrahman bin Faisal University
Jubail, Saudi Arabia



JEDDAH

Fouad Al Mutairi, PhD, RT
Director, Respiratory Care Department
King Fahd Armed Forces Hospital
Jeddah, Saudi Arabia



DAMMAM

Afnan S. AlRaimi, PhD, RRT
Assistant Professor and Senior Specialist
Head of the Respiratory Clinic at the Family and Community Medicine Center
Head of the Teaching and Assessment Unit
Respiratory Care Department
College of Applied Medical Sciences
Imam Abdulrahman bin Faisal University
Dammam, Saudi Arabia



DAMMAM

Sakinah Almarshhed, MSRC, RRT
Senior Respiratory Therapist
Lecturer in the Respiratory Therapy Program
Head, Respiratory Therapy Program,
Mohammed Almana College for Medical Sciences
Dammam, Saudi Arabia



BISHA

Mushabbab Alahmari, PhD, RRT, RRT-ACCS, RRT-NPS, RRT-SDS, RPFT
Assistant Professor and Head, Respiratory Therapy Department
Director, Health & Humanities Research Center
University of Bisha
Bisha, Saudi Arabia



DAMMAM

Mohammed D. AlAhmari, PhD, RRT, FAARC, FCCP, FCCM, AFCHSM
CEO, Eastern and Northern Health Cluster
Ministry of Interior
Dammam, Saudi Arabia



RIYADH

Taha T. Ismaeil, PhD, RT
Consultant and Associate Professor,
Respiratory Therapy Department
Associate Dean, Clinical Affairs
College of Applied Medical Sciences-Riyadh
KSAU-HS
Riyadh, Saudi Arabia



JEDDAH

Abdulsalam A. Alzahrani, BsRC, MBA, RRT
Chief, Respiratory Services
King Abdulaziz Medical City
Jeddah, Saudi Arabia



DHAHRAN

Abdullah Al Mohammadi, MHA, RRT
Director, Respiratory Care Services Division
John Hopkins Aramco Healthcare
Dhahran, Saudi Arabia



RIYADH

Saleh S. Algarni, PhD, RRT-NPS
Consultant and Associate Professor
Respiratory Care
Program Director, SCFHS Respiratory Critical Care
Ministry of National Guard Health Affairs (MNGHA)
Riyadh, Saudi Arabia



DAMMAM

Noor A. Alkathlan, PhD, RT
Associate Professor, Consultant of Respiratory Care & Pulmonary Function Testing
Vice Dean of Development and Community Partnership
Chair of the Advisory Committee, Respiratory Care Program in Saudi Universities
College of Applied Medical Sciences
Imam Abdulrahman bin Faisal University
Dammam, Saudi Arabia

LOCAL COMMITTEE FACULTY MEMBERS and Collaborating Departments

LOCAL COMMITTEE FACULTY MEMBERS and Collaborating Departments



Hassan Aljohani, PhD, RRT-NPS
Assistant Professor & Consultant
Chairman of Respiratory Therapy Department
King Saud bin Abdulaziz University for Health
Sciences
Riyadh, Saudi Arabia

RIYADH



Raid M. Alzahrani, MMed, MSc, RRT, EMT
Chairman, Respiratory Therapy Department
Chairman, Respiratory Therapy Program Unified
Committee (Riyadh, Jeddah, Al Hasa)
King Saud bin Abdulaziz University for
Health Sciences
Jeddah, Saudi Arabia

JEDDAH



Ahmad I. AlHusseini, MSc HS, RRT-NPS
Head, Respiratory Care Service
King Faisal Specialist Hospital and
Research Centre
Jeddah, Saudi Arabia

JEDDAH



Fatimah A. Alfaraaj, BsRT, RT
Chair, Clinical Services
Qatif Health Network
Head, Respiratory Care Departments- QHN, E1
AlQatif, Saudi Arabia

QATIF



Ghazi A. Alotaibi, PhD, RRT
Associate Professor of Respiratory Care
Vice President for Academic Affairs and Research
Arabian Gulf University
Kingdom of Bahrain

DAMMAM



Yousef D. Alqurashi, PhD, RPSGT
Assistant Professor & Consultant,
Respiratory Therapy
Vice Dean, Academic affair,
College of Applied Medical Sciences,
Imam Abdulrahman Bin Faisal University
Dammam, Saudi Arabia

DAMMAM



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

RIYADH



Maher M. Alquaimi, PhD, RRT-NPS
Assistant Professor, Respiratory Care
Imam Abdulrhman Bin Faisal University
Chairman, Home Health Care Society, Alhasa
Dammam, Saudi Arabia

DAMMAM



Huda M. Almula, BsRT, RT
Head, Respiratory Care Services
King Fahad University Hospital
Al Khobar, Saudi Arabia

KHOBAR



Basmah H. Alanazi, MPH, RT
Head, Respiratory Care Services
Prince Sultan Military Medical City
Riyadh Saudi Arabia

RIYADH



Fathadin A. Alahdal, MsRT, RRT, ACCS, NPS
Program Director, SCFHS Respiratory Critical Care
Diploma, Jazan Health Cluster
Chairman, Scientific Committee RCC Diploma at
SCFHS, King Fahad Hospital
Jizan, Saudi Arabia

JIZAN



Hessah G. Alotaibi, BsRC, MPH, RRT, RPFT
Supervisor, Pulmonary Functions Testing and
Pulmonary Rehabilitation
King Abdulaziz Medical City- Riyadh
Ministry of National Guard Health Affairs (MNG-HA)
Riyadh, Saudi Arabia

RIYADH



Aqeel J. Almayouf, BsRT, RRT
Senior Respiratory Therapist
Qatif Health Network
Respiratory Care Departments- QHN, E1
AlQatif, Saudi Arabia

QATIF



Khalid S. Alwadeai, PhD, RRT- NPS
Consultant and Associate Professor
Director, Respiratory Therapy Program
King Saud University
Riyadh, Saudi Arabia

RIYADH



Ahmed S. Alrowaily, BsRC, RRT, TOT, CISCN, CISCN, PMP®
Head, Respiratory Care Services, Aljouf Cluster
King Abdul-Aziz Specialist Hospital
Aljouf, Saudi Arabia

ALJOUF



Siraj T. Jaishi, MBA, MHA, RRT
King Abdulaziz Hospital
RT Locum Coordinator,
Ministry of Health
Jeddah, Saudi Arabia

JEDDAH



Malak O. Alshlowi, PhD, RT
Assistant Professor and Lecturer,
Respiratory Care Department
Head of Scholarship Affairs Unit
College of Applied Medical Sciences
Imam Abdulrahman Bin Faisal University
Dammam, Saudi Arabia

DAMMAM



Hamoud H. Alkurdi, BsRC, RT
Head, Respiratory Care Department
King Fahad Military Medical Complex
Dhahran, Saudi Arabia

DHAHRAN



Mohie Aldeen Khalifa, PhD, MD
Professor and Head of Respirology Department,
General Organization for Teaching
Hospitals and Institutes
President, Egyptian Scientific Society for
Respiratory Therapy (ESSRT)
Cairo, Egypt

EGYPT



Ayadh Y. AL Ayadhi, BSc, MSc, TOT
Lecturer, Head of Respiratory Care Department.
Prince Sultan Military College of Health Science
Dhahran, Saudi Arabia

DHAHRAN



LOCAL COMMITTEE FACULTY MEMBERS and Collaborating Departments

LOCAL COMMITTEE FACULTY MEMBERS and Collaborating Departments



DAMMAM

Sami M. Al Jerayed, MME, BsRT, RRT
Manager, Respiratory Services
Imam Abdulrahman Bin Faisal Hospital,
Ministry of National Guard Health Affairs
Dammam, Saudi Arabia



DHAHRAN

Asma O. Alamoudi, PhD, RRT, RRT-RPFT-NPS-ACCS
Assistant Professor of Respiratory Care and
Academic Coordinator
Respiratory Care Department,
Prince Sultan Military College of Health Sciences
Dhahran, Saudi Arabia



JEDDAH

**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



RIYADH

Mohammed AlTaweel, MSc, RT
Chairman, Department of Respiratory Care
Business Development Lead
AlMaarefa University
Riyadh, Saudi Arabia



DAMMAM

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

Masarrah Y. AlJaroor, PhD, RRT, RPFT, NCTTP
Assistant Professor of Respiratory Care
Respiratory Therapy Department
Mohammed Al Mana College for Medical Sciences
Dammam, Saudi Arabia



ALAHSA

Bshayer R. Alhamad, PhD, MMed, RT
Assistant Professor and Consultant
Respiratory Care
Respiratory Therapy Program
College of Applied Medical Sciences
King Saud bin Abdulaziz University
for Health Sciences
Al Ahsa, Saudi Arabia



ALAHSA

Nowaf Y. Alobaidi, PhD, RRT
Assistant Professor and Senior Specialist in
Respiratory Therapy
Respiratory Therapy Program
College of Applied Medical Sciences
King Saud bin Abdulaziz University
for Health Sciences
AlAhsa, Saudi Arabia



ALAHSA

Ahmed M. Alrajeh, PhD, AFHEA, RRT, RRT-NPS
Dean, College of Applied Medical Sciences
Associate Professor & Consultant of Respiratory Care
Respiratory Therapy Department
College of Applied Medical Sciences,
King Faisal University
AlAhsa, Saudi Arabia



ALAHSA

Bandar M. Faqihi, PhD, RT
Assistant Professor
Chairman, Respiratory Therapy Program
College of Applied Medical Sciences
King Saud bin Abdulaziz University for
Health Sciences
AlAhsa, Saudi Arabia



JEDDAH

Ziyad Al Nufaei, PhD, RRT-NPS, CPFT
Assistant Prof of Respiratory Care
Assistant Dean, Academic Affairs
Chairman of the QAAAU & IT Department
College of Applied Medical Sciences-Jeddah
King Saud bin Abdulaziz University for Health
Jeddah, Saudi Arabia



MADINAH

Yassin T. Ismaiel, MME, RRT, PGDip HELP
Head, Respiratory Care Department
King Faisal Specialist Hospital & Research Centre-
Madinah
Madinah, Saudi Arabia



RIYADH

Laila K. Jeftawi, MSc, RRT
Lecturer, Senior Specialist and Director,
Respiratory Care Program
Princess Nourah Bint Abdulrahman University
Riyadh, Saudi Arabia



JEDDAH

Abdullah A. Alqarni, PhD, RRT, ACCS, NPS
Associate Professor and Consultant of
Respiratory Therapy
Head, Respiratory Therapy Department
King Abdulaziz University
Jeddah, Saudi Arabia



RIYADH

Tareq F. Alotaibi, PhD, RT
Assistant Dean, College of Applied Medical
Sciences
Associate Professor & Consultant of
Respiratory Care
Respiratory Department, College of Applied
Medical Sciences
King Saud bin Abdulaziz University for
Health Sciences
Riyadh, Saudi Arabia



JEDDAH

Jameel Hakeem, PhD, RRT, AFHEA
Assistant Professor and Senior Specialist in
Respiratory Therapy
Deputy Director of the Saudi Diploma in
Critical Respiratory Care at NGH-J
Respiratory Therapy Program
College of Applied Medical Sciences
King Saud bin Abdulaziz University
for Health Sciences
Jeddah, Saudi Arabia



KHOBAR

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



RIYADH

Munyra I. Alhotye, PhD, RRT-NPS
Assistant Professor, Senior Respiratory Therapist,
Clinical Coordinator
Department of Respiratory Therapy
College of Applied Medical Sciences
King Saud bin Abdulaziz University for
Health Sciences
Riyadh, Saudi Arabia



RIYADH

Mabruk N. Aldosari, BsRC, MHS, RRT
Clinical Instructor and Supervisor Respiratory Care
Respiratory Care Department
King Faisal Specialist Hospital & Research Center
Riyadh, Saudi Arabia



DHAHRAN

Abdulaziz Alyami, MsRC, RRT, MBA
Program Director, Respiratory Critical Care
and Post-Graduate Program
Education Lead, Specialized Therapy and
Clinical Services
John Hopkins Aramco Healthcare Center.
Dhahran, Saudi Arabia



LOCAL COMMITTEE FACULTY MEMBERS and Collaborating Departments



DAMMAM

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



ALAHSA

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



DAMMAM

Noorah A. AlNoaimi, MSc, RT
Respiratory Care Specialist and Lecturer,
Respiratory Care Department
Imam Abdulrahman Bin Faisal University
Dammam, Saudi Arabia



JEDDAH

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



DAMMAM

Abrar H. Bokhamseen, BsRC, RRT
Senior Respiratory Therapist
Imam Abdulrahman ibn Faisal Hospital, NG
Dammam, Saudi Arabia



RIYADH

Mohammed K. AlShehri, BsRC, RT, MBA
Head Section, Respiratory Care Emergency
Respiratory Care Administration
King Fahad Medical City
Riyadh, Saudi Arabia



DAMMAM

Amal A. AlAmer, PhD, MSc AP, RT, AFHEA
Assistant Professor, Respiratory Care
Head, Research Faculty Unit
Advisor, Master of Respiratory Care Committee
Respiratory Care Department
College of Applied Medical Sciences
Imam Abdulrahman Bin Faisal University
Dammam, Saudi Arabia




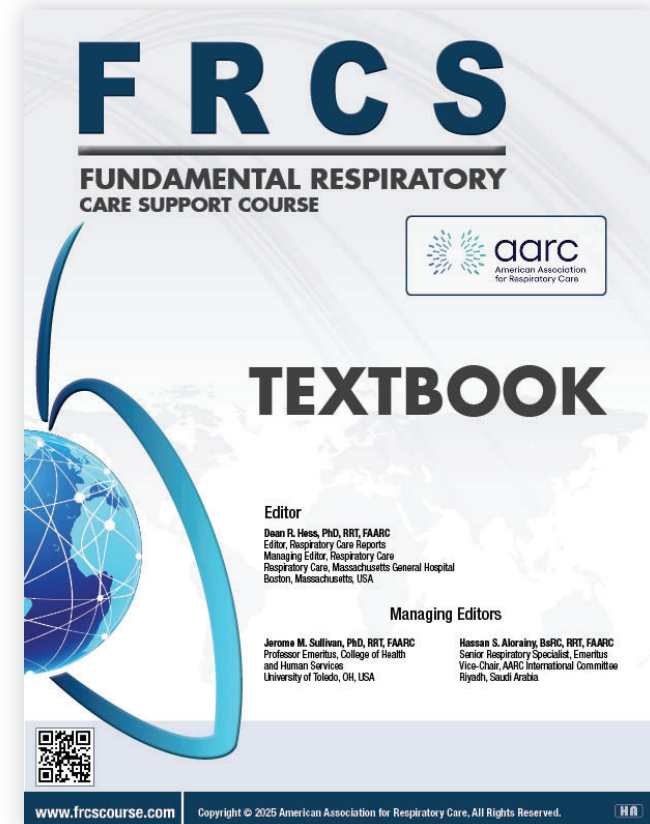
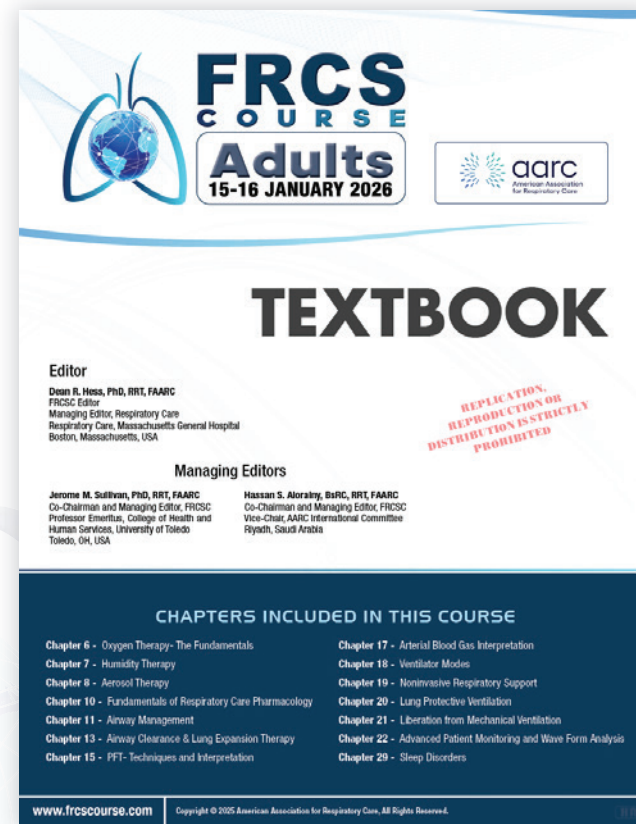


WHAT DOES EACH INCLUDE?

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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 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.		✓	✓





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>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	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>WORKSHOPS</p> <p>Noninvasive Respiratory Support</p> <p>Ventilator Modes</p> <p>Pulmonary Function Testing</p>	MACHS Classrooms <p>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. Forced Oscillation Technique (FOT): A New Technology <p>MEET THE INDUSTRIES SESSIONS</p> <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 <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 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

Post FRCS-Adult Course Test

Post FRCS-NeoPed Course Test

DAY 1 - THURSDAY, 15 JANUARY 2026 - AM

06:30 - 07:30Registration

SESSION 1

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

07:30 - 08:00Oxygen Therapy; The Fundamentals
Rioloida V. Diola - Philippines

08:00 - 08:30Humidity Therapy
Dana L. Evans - USA

08:30 - 09:00Aerosol Therapy
Douglas S. Gardenhire - USA

09:00 - 09:30Airway Clearance & Lung Expansion Therapy
Carl R. Hinkson - USA

09:30 - 10:00Opening and Welcome Remarks

10:00 - 10:30COFFEE BREAK

SESSION 2

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

10:30 - 11:00Airway Management
Rachael J. Sullivan - USA

11:00 - 11:30Fundamentals of Respiratory Care Pharmacology
Douglas S. Gardenhire - USA

11:30 - 12:00Sleep Disorders
Ahmed S. BaHammam - KSA

12:00 - 13:00LUNCH BREAK

DAY 1 - THURSDAY, 15 JANUARY 2026 - PM

SESSION 3

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

13:00 - 13:30Acid Base Balance, Blood Gas Analysis & Oxygenation
J. Brady Scott - USA

13:30 - 14:00Pulmonary Function Testing- Techniques and Interpretation
Hajed M. Al-Otaibi - KSA

14:00 - 14:30Noninvasive Respiratory Support
Dean R. Hess - USA

14:30 - 15:00Ventilator Modes
Thomas Piraino - Canada

15:00 - 15:30COFFEE BREAK

SESSION 4

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

15:30 - 16:15Advanced Patient Monitoring & Waveform Analysis
J. Brady Scott - USA




16:15 - 16:45Lung Protective Ventilation Approaches in Various Diseases
Dean R. Hess - USA

16:45 - 17:15Liberation 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 
	Yahya A. Alzahrani DAMMAM	Abrar H. Bokhamseen DHAHRAN	Munyra I. Alhotye RIYADH
	Laila K. 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
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
	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 - 18:15 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
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



CO-INSTRUCTOR

Laila K. Jeftawi, MSc, RRT

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

RIYADH

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

Jose Rex N. Navarro, 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



CO-INSTRUCTOR

Abrar H. Bokhamseen, BsRC, RRT

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,
Clinical Coordinator
Department of Respiratory Therapy
College of Applied Medical Sciences
King Saud bin Abdulaziz University for
Health Sciences
Riyadh, Saudi Arabia



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
Clinical Services
John Hopkins Aramco Healthcare Center.
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

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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
Scientific Research,
Director, Respiratory Therapy
Department, King AbdulAziz University
Jeddah, Makkah, Saudi Arabia



DAMMAM

CO-INSTRUCTOR
Malak O. Alshlowi, PhD, RT
Assistant Professor and Lecturer,
Respiratory Care Department
Head of Scholarship Affairs Unit
College of Applied Medical Sciences
Imam Abdulrahman Bin Faisal University
Dammam, Saudi Arabia



DAMMAM

CO-INSTRUCTOR
Masarrah Y. AlJaroor, 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	
SESSION 1: Pediatric & Neonatal Respiratory Care		
Chairs:	Ahmad I. AlHusseini - JEDDAH	Mushabbab Alahmari - BISHA
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	
SESSION 2: Pediatric & Neonatal Respiratory Care		
Chairs:	Saleh S. Algarni - RIYADH	Bandar M. Faqihi - ALAHSA
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

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. 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 - 18:15	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
 Chief, Division of Neonatology,
 Guangzhou Women & Children's Medical Center,
 Guangzhou Medical University
 Guangzhou, China



CO-INSTRUCTOR

Talal Altamimi, MD
 Consultant Neonatologist,
 Neonatal Hemodynamics Program Lead
 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

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 (VTV), and adjust ventilator settings in response to patient assessment, blood gas analysis, and clinical data.
- Troubleshoot common clinical scenarios while managing a patient on VTV

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)
 Orange, California, USA
 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
 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 & Interpretation

Chairs: Asma O. Alamoudi - DHAHRAN

Maher M. Alquaيمي - 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

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



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 Alkuaibi, Makarem Alkhalaf, Saja Abuzaid, Najla Omar, Ghadeer Alowaywi, Ali Albahrani

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 Altorabibili

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

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 - ALAHS
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 - ALAHS	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 - DHAHRAN	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

CONTACT:



16479 Dallas Parkway, Ste 420
Addison, TX 75001
Direct: (972) 243-2272
info@aarc.org
www.aarc.org

LOCAL CONTACT:



frcscourse@gmail.com
admin@frcscourse.com
+966 53 890 0404

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