

EDITORIAL OFFICE

9425 N MacArthur Blvd
Suite 100
Irving, TX 75063-4706
(972) 514-7710
Fax (972) 484-2720
www.rcjournal.com

MANAGING EDITOR

Dean R Hess PhD RRT
FAARC

ASSISTANT EDITOR

Sara Moore

TECHNICAL EDITOR

Gail S Drescher MA RRT

CHIEF BUSINESS OFFICER

Timothy R Myers
MBA RRT RRT-NPS FAARC

CONTINUING EDUCATION

Shawna L Strickland PhD RRT
RRT-NPS RRT-ACCS AE-C
FAARC

PUBLISHER

Sam P Giordano MBA
RRT FAARC

RESPIRATORY CARE

A Monthly Science Journal
Established in 1956

The Official Journal of the
American Association for
Respiratory Care



EDITOR IN CHIEF

Richard D Branson MSc RRT FAARC
*University of Cincinnati
Cincinnati, Ohio*

ASSOCIATE EDITORS

Richard H Kallet MSc RRT
FAARC
*San Francisco General Hospital
San Francisco, California*

Neil R MacIntyre MD FAARC
*Duke University
Durham, North Carolina*

Bruce K Rubin MEngR MD
MBA FAARC
*Virginia Commonwealth University
Richmond, Virginia*

EDITORIAL BOARD

Ellen A Becker PhD RRT
RRT-NPS RPFT AE-C FAARC
*Rush University Medical Center
Chicago, Illinois*

Steven M Donn MD
*C S Mott Children's Hospital
University of Michigan
Ann Arbor, Michigan*

François Lellouche MD PhD
*Université Laval
Québec City, Québec, Canada*

Ariel Berlinski MD
*University of Arkansas for Medical
Sciences
Arkansas Children's Hospital
Research Institute
Little Rock, Arkansas*

David J Dries MSE MD
*Regions Hospital
University of Minnesota
St Paul, Minnesota*

John J Marini MD
*Regions Hospital
University of Minnesota
St Paul, Minnesota*

Peter Betit RRT RRT-NPS
FAARC
*Boston Children's Hospital
Boston, Massachusetts*

Scott K Epstein MD
*Tufts University
Boston, Massachusetts*

Stefano Nava MD
*Policlinico S Orsola-Malpighi
Università di Bologna
Bologna, Italy*

Lluís Blanch MD PhD
*Universitat Autònoma de Barcelona
Hospital de Sabadell
Sabadell, Spain*

Eddy Fan MD
*Mount Sinai Hospital and University
Health Network
University of Toronto
Toronto, Ontario, Canada*

Masaji Nishimura MD PhD
*Tokushima University
Tokushima, Japan*

Brian W Carlin MD FAARC
*Allegheny General Hospital
Pittsburgh, Pennsylvania*

Lynda T Goodfellow EdD RRT
AE-C FAARC
*Byrdine F. Lewis School of Nursing
and Health Professions
Georgia State University
Atlanta, Georgia*

Thomas Piraino RRT
*St Joseph's Healthcare
Hamilton, Ontario, Canada*

Robert L Chatburn MHHS
RRT RRT-NPS FAARC
*The Cleveland Clinic Foundation
Cleveland, Ohio*

Jeffrey M Haynes RRT RPFT
FAARC
*St Joseph Hospital
Nashua, New Hampshire*

Fabio Pitta PhD
*Universidade Estadual de Londrina
Londrina, Brazil*

Ira M Cheifetz MD FAARC
*Duke University
Durham, North Carolina*

Nicholas S Hill MD
*Tufts Medical Center
Boston, Massachusetts*

Ruben D Restrepo MD RRT
FAARC
*University of Texas at San Antonio
San Antonio, Texas*

Nelson Claire PhD
*University of Miami
Miller School of Medicine
Miami, Florida*

Carl R Hinkson MSc RRT
RRT-ACCS RRT-NPS FAARC
*Harborview Medical Center
Seattle, Washington*

Gregg L Ruppel MEd RRT
RPFT FAARC
*St Louis University
St Louis, Missouri*

Kathleen M Deakins MHA
RRT RRT-NPS FAARC
*Rainbow Babies and Children's
Hospital
Cleveland, Ohio*

Robert M Kacmarek PhD RRT
FAARC
*Massachusetts General Hospital
Harvard Medical School
Boston, Massachusetts*

Ulrich H Schmidt MD PhD
*University of California, San Diego
San Diego, California*

Steven Deem MD
*Swedish Medical Center
Seattle, Washington*

Michael Klompas MD MPH
*Harvard Medical School
Brigham and Women's Hospital
Boston, Massachusetts*

Craig D Smallwood PhD RRT
*Boston Children's Hospital
Harvard Medical School
Boston, Massachusetts*

Rajiv Dhand MD FAARC
*University of Tennessee
Graduate School of Medicine
Knoxville, Tennessee*

Marin H Kollef MD
*Washington University School of
Medicine
St Louis, Missouri*

James K Stoller MD MSc
FAARC
*The Cleveland Clinic Foundation
Cleveland, Ohio*

Teresa A Volsko MHHS RRT
FAARC
*Children's Hospital Medical Center
Akron, Ohio*

EDITORS EMERITUS

David J Pierson MD FAARC
*University of Washington
Seattle, Washington*

Ray Masferrer RRT FAARC
Holly Lake Ranch, Texas