

# CONTENTS

JUNE 2009 / VOLUME 54 / NUMBER 6

## FOR INFORMATION, CONTACT:

### AARC Membership or Other AARC Services

American Association for  
Respiratory Care  
9425 N MacArthur Blvd, Suite 100  
Irving, TX 75063-4706  
(972) 243-2272 • Fax (972) 484-2720  
<http://www.aarc.org>

### Therapist Registration or Technician Certification

National Board for  
Respiratory Care  
8310 Nieman Rd  
Lenexa KS 66214  
(913) 599-4200 • Fax (913) 541-0156  
<http://www.nbrc.org>

### Accreditation of Education Programs

Committee on Accreditation for  
Respiratory Care  
1248 Harwood Rd  
Bedford TX 76021-4244  
(817) 283-2835 • Fax (817) 354-8519  
<http://www.coarc.com>

### Grants, Scholarships, Community Projects

American Respiratory  
Care Foundation  
9425 N MacArthur Blvd, Suite 100  
Irving, TX 75063-4706  
(972) 243-2272 • Fax (972) 484-2720

# RESPIRATORY CARE

RESPIRATORY CARE (ISSN 0020-1324, USPS 0489-190) is published monthly by Daedalus Enterprises Inc, at 9425 N MacArthur Blvd., Suite 100, Irving, TX 75063-4706, for the American Association for Respiratory Care. One volume is published per year beginning each January. Individual subscription rates are \$89 per year in the US; \$109 in all other countries (for airmail, add \$94).

The contents of the Journal are indexed in *Index Medicus/MEDLINE*, *Science Citation Index Expanded*, *Journal Citation Reports/Science Edition*, *Current Contents®/Clinical Medicine*, *Hospital and Health Administration Index*, *Cumulative Index to Nursing and Allied Health Literature*, *EMBASE/Excerpta Medica*, and *RNdx Library Edition*. Abridged versions of RESPIRATORY CARE are also published in Italian and Japanese, with permission from Daedalus Enterprises Inc.

Periodicals postage paid at Dallas TX and at additional mailing offices. POSTMASTER: Send address changes to RESPIRATORY CARE, Membership Office, Daedalus Enterprises Inc, 9425 N MacArthur Blvd, Irving, TX 75063-4706

© Printed on acid-free paper.  
Printed in the United States of America  
Copyright © 2009 by Daedalus Enterprises Inc.

## 43RD RESPIRATORY CARE JOURNAL CONFERENCE

---

# RESPIRATORY CARE AND CYSTIC FIBROSIS

## PART II

---

# A SPECIAL ISSUE

### CO-CHAIRS

David E Geller MD  
Bruce K Rubin MEngr MD MBA FAARC

## CONFERENCE PROCEEDINGS

---

Mucus, Phlegm, and Sputum in Cystic Fibrosis  
*by Bruce K Rubin—Winston-Salem, North Carolina* **726**

Airway-Clearance Therapy Guidelines and Implementation  
*by Mary K Lester and Patrick A Flume—Charleston, South Carolina* **733**

New Aerosol Delivery Devices for Cystic Fibrosis  
*by Kenneth C Kesser and David E Geller—Orlando, Florida* **754**

Respiratory Care of the Hospitalized Patient With Cystic Fibrosis  
*by Thomas J Newton—Long Beach, California* **769**

Lung Transplantation in Cystic Fibrosis  
*by Randall L Rosenblatt—Dallas, Texas* **777**

Cystic Fibrosis Foundation: Achieving the Mission  
*by Bruce C Marshall, Chris M Penland, Leslie Hazle, Melissa Ashlock, Diana Wetmore, Preston W Campbell and Robert J Beall—Bethesda, Maryland* **788**

## CONFERENCE SUMMARY

---

Respiratory Care and Cystic Fibrosis  
*by David E Geller—Orlando, Florida  
and Bruce K Rubin—Winston-Salem, North Carolina* **796**

# CONTENTS

CONTINUED...

## ALSO IN THIS ISSUE

697	Editor's Commentary
698	Abstracts from Other Journals
805	Professional Opportunities
806	Instructions to Authors
811	AARC Membership Application
813	Call for Abstracts
815	Calendar
816	Author Index
816	Advertisers Index & Help Lines

## RESPIRATORY CARE

A Monthly Science Journal  
Established in 1956

The Official Journal of the  
American Association for  
Respiratory Care



## BOOKS, SOFTWARE, & OTHER MEDIA

Evidence-Based Emergency Care. Diagnostic Testing and Clinical Decision Rules (Pines JM and Everett WW) <i>reviewed by Lisa W Yang and Samuel D Luber—Dallas, Texas</i>	801
Sleep Medicine: Essentials and Review (Lee-Chiong T Jr) <i>reviewed by Sina A Gharib—Seattle, Washington</i>	802
Lung Cancer, 3rd edition (Roth JA, Cox JD, Hong WK) <i>reviewed by Peter W Bates—Portland, Maine</i>	803

## Coming in July

### Editorials:

#### A Sigh of Relief for ARDS?

Infection Control in Mass Casualty Respiratory Care  
Chronic Disease Management for Adults with Asthma

### Original Research:

PEEP and Recruitment Maneuvers in ALI/ARDS

MDI with Spacer during the SARS Outbreak

Respiratory Therapist Evaluation of  
Non-ICU Surgical Patients

Needs Assessment for Preceptor Training

### Review Article:

Disease Management for Adults with Asthma

### Special Articles:

Egan Lecture: The Physiology of Dinosaurs

Kittredge Lecture: Legacy of the ARDS Network

Symposium: Current and Evolving  
Concepts in Critical Care

Evolution of Carbon Monoxide into Medicine

Innovations in Mechanical Ventilation

Extracorporeal Membrane Oxygenation

Postoperative Pulmonary Hypertension

### Case Report

NIV in a Pregnant Patient

### Teaching Case of the Month

Pulmonary Mass in an Immunocompromised Patient

Sleep  
Medicine  
(Smith  
HR,  
Comella  
CL, Högl  
B, edi-  
tors)  
*reviewed by  
Louis S  
Libby—  
Portland,  
Maine*

803