

CONTENTS

MAY 2006 / VOLUME 51 / NUMBER 5

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

AARC Government Affairs Office

Director of Govt Affairs
Jill Eicher MPA
1100 Duke St
Alexandria VA 22314-3514
(703) 548-8538 Fax (703) 548-8499
eicher@aarc.org

Director of State Govt Affairs
Cheryl West MHA
1650 Thatch Circle
Castle Rock, CO 80109
(303) 663-1572 Fax (303) 663-1567
west@aarc.org

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, Hospital and Health Administration Index, Cumulative Index to Nursing and Allied Health Literature, EMBASE/Excerpta Medica, and RNdex 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 © 2006 by Daedalus Enterprises Inc.

EDITORIALS

Sedation in the Intensive Care Unit: A Call for Evidence
by Steven Deem—Seattle, Washington **489**

ORIGINAL CONTRIBUTIONS

Use of Dexmedetomidine to Facilitate Extubation in Surgical Intensive-Care-Unit Patients Who Failed Previous Weaning Attempts Prolonged Mechanical Ventilation: A Pilot Study
by Mark S Siobal, Richard H Kallet, Valerie A Kivett, and Julin F Tang—San Francisco, California **492**

The Impact of Endotracheal Suctioning on Gas Exchange and Hemodynamics During Lung-Protective Ventilation in Acute Respiratory Distress Syndrome
by Maria Paula Caramez, Guilherme Schettino, Klaudiusz Suchodolski, Tomoyo Nishida, R Scott Harris, Atul Malhotra, and Robert M Kacmarek—Boston, Massachusetts **497**

The Importance of Nonelectrostatic Materials in Holding Chambers for Delivery of Hydrofluoroalkane Albuterol
by Joseph L Rau—Atlanta, Georgia; Dominic P Coppola—Syracuse, New York; Mark W Nagel, Valentina I Avvakoumova, Cathy C Doyle, Kimberly J Wiersema, and Jolyon P Mitchell—London, Ontario, Canada **503**

Levalbuterol Aerosol Delivery With a Nonelectrostatic Versus a Nonconducting Valved Holding Chamber
by Dominic P Coppola—Syracuse, New York, and Jolyon P Mitchell and Mark W Nagel—London, Ontario, Canada **511**

CASE REPORTS

Progressive Pulmonary Infiltrates in a Patient With Ovarian Cancer
by Veeta M Vaughn, Bret W Haymore, Ines J Sanchez-Rivera, and Alexander S Niven—El Paso, Texas **515**

SPECIAL ARTICLES

Recommendations of the 6th Long-Term Oxygen Therapy Consensus Conference
by Dennis E Doherty—Lexington, Kentucky; and Thomas L Petty—Denver, Colorado, for the Writing and Organizing Committees **519**

A Review of the Alpha-1 Foundation: Its Formation, Impact, and Critical Success Factors
by John W Walsh—Miami, Florida; Gordon L Snider—Boston, Massachusetts; and James K Stoller—Cleveland, Ohio **526**

TEACHING CASE OF THE MONTH

Bullous Lung Disease or Bullous Emphysema?
by Ritesh Agarwal and Ashutosh N Aggarwal—Chandigarh, India **532**

CONTENTS

CONTINUED...

ALSO IN THIS ISSUE

551	AARC Membership Application
457	Abstracts from Other Journals
560	Advertisers Index & Help Lines
560	Author Index
559	Calendar of Events
553	Call for OPEN FORUM Abstracts
555	Manuscript Preparation Guide
550	Notices
546	Professional Opportunities

LETTERS

More on Novel Oxygen-Concentrator-Based Equipment (Part 1)
by Tim J Good—Logan, Ohio **535**
response by Linda C Gallegos and John W Shigeoka—Salt Lake City, Utah

More on Novel Oxygen-Concentrator-Based Equipment (Part 2)
by Joseph S Lewarski—Goleta, California; Robert Messenger—Elyria, Ohio; **537**
and Thomas J Williams—Scottsdale, Arizona
response by Linda C Gallegos and John W Shigeoka—Salt Lake City, Utah

BOOKS, FILMS, TAPES, & SOFTWARE

Physiologic Basis of Respiratory Disease (Hamid Q, Shannon J, Martin J)
reviewed by Robb W Glenny—Seattle, Washington **540**

Pulmonary Pathophysiology, 2nd ed (Ali J, Summer W, Levitzky M)
reviewed by Robert R Kempainen—Minneapolis, Minnesota **541**

Practical Pulmonary Pathology: A Diagnostic Approach
(Leslie KO, Wick MR) **541**
reviewed by Joan Gil—New York, New York

Thurlbeck's Pathology of the Lung, 3rd ed (Churg AM, Myers JL,
Tazelaar HD, Wright JL) **543**
reviewed by Richard L Kradin—Boston, Massachusetts

Air Pollutants and the Respiratory Tract, 2nd ed
(Foster WM, Costa DL, editors) **544**
reviewed by Jonathan A Bernstein—Cincinnati, Ohio

Chronic Obstructive Pulmonary Disease: Cellular and
Molecular Mechanisms (Barnes PJ, editors) **545**
reviewed by Sanjay Sethi—Buffalo, New York

**RESPIRATORY
CARE**

A Monthly Science Journal
Established in 1956

The Official Journal of the
American Association for
Respiratory Care

