

CONTENTS

OCTOBER 2003 / VOLUME 48 / NUMBER 10

FOR INFORMATION, CONTACT:

AARC Membership or Other AARC Services

American Association for Respiratory Care
11030 Ables Ln
Dallas TX 75229-4593
(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.nbrcc.org>

Accreditation of Education Programs

Committee on Accreditation for Respiratory Care
1701 W Euless Blvd, Suite 300
Euless TX 76040
(817) 283-2835 • Fax (817) 354-8519
<http://www.coarc.com>

Grants, Scholarships, Community Projects

American Respiratory Care Foundation
11030 Ables Ln
Dallas TX 75229-4593
(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 11030 Ables Lane, Dallas TX 75229-4593, 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, 11030 Ables Lane, Dallas TX 75229-4593.

© Printed on acid-free paper.

Printed in the United States of America
Copyright © 2003 by Daedalus Enterprises Inc.

EDITORIALS

- Noninvasive Positive-Pressure Ventilation: The Little Things Do Make the Difference!
by Robert M Kacmarek—Boston, Massachusetts **919**

ORIGINAL CONTRIBUTIONS

- Acute Physiologic Effects of Nasal and Full-Face Masks During Noninvasive Positive-Pressure Ventilation in Patients With Acute Exacerbations of Chronic Obstructive Pulmonary Disease
by Antonio Antón, Julia Tárrega, Jordi Giner, Rosa Güell, and Joaquin Sanchis—Barcelona, Spain **922**

- Nebulized Bronchodilator Formulations: Unit-Dose or Multi-Dose?
by Joseph L Rau and Ruben D Restrepo—Atlanta, Georgia **926**

- Effect of Intrapulmonary Percussive Ventilation on Mucus Clearance in Duchenne Muscular Dystrophy Patients: A Preliminary Report
by Michel Toussaint, Harry De Win, Mark Steens, and Philippe Soudon—Brussels, Belgium **940**

- Albuterol Aerosol Delivered via Metered-Dose Inhaler to Intubated Pediatric Models of 3 Ages, With 4 Spacer Designs
by Piush Mandhane—Toronto, Ontario, Canada, Peter Zuberbuhler, Carlos F Lange, and Warren H Finlay—Edmonton, Alberta, Canada **948**

CASE REPORTS

- Buspirone Treatment for Apneustic Breathing in Brain Stem Infarct
by Mohamad F El-Khatib, Rabee A Kiwan, and Ghassan W Jmaledine—Beirut, Lebanon **956**

LETTERS

- Evaluation of a New Desktop Spirometer: Problems With Statistical Methods Used
by Norman Tiffin—Bright's Grove, Ontario, Canada response by Macé M Schuurmans, Clarissa H Pieper, and Chris T Bolliger—Cape Town, South Africa **959**

CORRECTIONS

- Corrected Table
in Comparison of a New Desktop Spirometer (Spirospec) with a Laboratory Spirometer in a Respiratory Out-Patient Clinic (Respir Care 2003;48[6]:591-595) **959**

BOOKS, FILMS, TAPES, & SOFTWARE

- Chest X-Ray Made Easy, 2nd ed (Corne J, Carroll M, Brown I, Delany D)
reviewed by Colin R Cooke—Seattle, Washington **960**

- Pediatric Chest Imaging: Chest Imaging in Infants and Children (Lucaya J, Strife JL, editors)
reviewed by Jeffrey P Kanne—Seattle, Washington **961**

CONTENTS

CONTINUED...

ALSO IN THIS ISSUE

973 AARC Membership
Application

904 Abstracts from
Other Journals

976 Advertisers Index
& Help Lines

976 Author
Index

975 Calendar
of Events

969 Manuscript
Preparation Guide

967 New Products

968 Notices

Diseases of the Lung: Radiologic and Pathologic Correlations
(Müller NL, Fraser RS, Lee KS, Johkoh T)
reviewed by Wendi Norris—Seattle, Washington 962

Color Atlas of Pulmonary Cytopathology (Kini SR)
reviewed by Kim R Geisinger—Winston-Salem, North Carolina 962

Disease Markers in Exhaled Breath (Marczin N, Kharitonov SA,
Yacoub MH, Barnes PJ, editors)
reviewed by Niranjan Kissoon—Jacksonville, Florida 963

CRCE THROUGH THE JOURNAL

2003 Answer Key 966

Coming in December 2003 and January 2004

Special Issues Journal Conference Proceedings

**Chronic Obstructive Pulmonary Disease:
Translating New Understanding
Into Improved Patient Care**

Conference Co-Chairs and Guest Editors

**John E Heffner MD
James K Stoller MD MSc FAARC**

**RESPIRATORY
CARE**

A Monthly Science Journal
Established in 1956

The Official Journal of the
American Association for
Respiratory Care

