CONTENI

March 2017 / VOLUME 62 / NUMBER 3

FOR INFORMATION, **CONTACT:**

AARC Membership and 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

Credentialing Organization for RRT, CRT

National Board for Respiratory Care 10801 Mastin St, Suite 300 Overland Park, KS 66210 (913) 895-4900 • Fax (913) 712-9283 http://www.nbrc.org

Accreditation of Education **Programs**

Commission 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 http://www.arcfoundation.org



A Monthly Science Journal Established in 1956

The Official Journal of the American Association for Respiratory Care



Editor's Commentary	
Commentary on the March 2017 Issue	i
Editor's Choice	
Implementation of a β-Agonist/Airway Clearance Protocol in a Pediatric ICU	259
by Gary R Lowe, J Randy Willis, Shasha Bai, and Mark J Heulitt—Little Rock, Arkansas ORIGINAL RESEARCH	2 3 3
Daily Goals Formulation and Enhanced Visualization of Mechanical Ventilation Variance Improves Mechanical Ventilation Score by Brian K Walsh, Craig Smallwood, Jordan Rettig, Robert M Kacmarek, John Thompson, and John H Arnold—Boston, Massachusetts	268
The Future of Respiratory Care: Results of a New York State Survey of Respiratory Therapists by Stephen G Smith, Lisa M Endee, Lisa A Benz Scott, and Pamela L Linden—Stony Brook, New York	279
Development, Validity and Reliability of the Londrina Activities of Daily Living Protocol for Subjects With COPD by Thaís Sant'Anna, Leila Donária, Karina C Furlanetto, Fernanda Morakami, Antenor Rodrigues, Talita Grosskreutz, Nidia A Hernandes, Fabio Pitta—Londrina, Brazil and Rik Gosselink—Leuven, Belgium	288
Londrina Activities of Daily Living Protocol: Reproducibility, Validity, and Reference Values in Physically Independent Adults Age 50 Years and Older by Thaís Paes, Letícia Fernandes Belo, Diego Rodrigues da Silva, Andrea Akemi Morita, Leila Donária, Karina Couto Furlanetto, Thaís Sant'Anna, Fabio Pitta, and Nidia Aparecida Hernandes—Londrina, Brazil	298
Microalbuminuria in Subjects With COPD: Relationship to the New Version of Global Initiative for Chronic Obstructive Lung Disease Staging by Fulsen Bozkus, Nursel Dikmen, and Anil Samur—Kahramanmaras, Turkey	307
Low-Volume Whole-Body Vibration Training Improves Exercise Capacity in Subjects With Mild to Severe COPD by Marc Spielmanns, Anja Klutsch, Henryk Polanski—Leverkusen Opladen, Germany Wolfram Windisch—Witten, Germany Tobias Boeselt, Andreas R Koczulla, Henrike Fischer, Christoph Nell—Marburg, Germany Rainer Gloeckl—Schoenau am Koenigssee, Germany and Jan H Storre—Cologne, Germany	315
Alternative Indexes to Estimate the Functional Capacity From the 6-Minute Walk Test in Children and Adolescents With Cystic Fibrosis by Renata Tiemi Okuro, Maria Angela Gonçalves de Oliveira Ribeiro, José Dirceu Ribeiro, Rafaela Coelho Minsky, and Camila Isabel Santos Schivinski—Coqueiros-Florianópolis, Brazil	324
The Integrative Weaning Index in Elderly ICU Subjects by Leandro M Azeredo, Sérgio N Nemer, Jefferson B Caldeira, Rosângela Noé, Bruno L Guimarães, Célia P Caldas—Rio de Janeiro, Brazil and Carmen SV Barbas—São Paulo, Brazil	333
Optimizing PEEP by Electrical Impedance Tomography in a Porcine Animal Model of ARDS by Nadine Hochhausen, Ingeborg Biener, Rolf Rossaint, Andreas Follmann, Christian Bleilevens, Till Braunschweig, Steffen Leonhardt, and Michael Czaplik—Aachen, Germany	340
Radiographic Mastoid and Middle Ear Effusions in Intensive Care Unit Subjects by Phillip Huyett, Yael Raz, Barry E Hirsch, and Andrew A McCall—Pittsburgh, Pennsylvania	350

Veteran Preferences Regarding Wireless Management of Positive Airway Pressure for Obstructive Sleep Apnea at a Tertiary Health-Care System by Ken He, Brian N Palen, Elizabeth A Mattox, and Elizabeth C Parsons—Seattle, Washington

CONTENTS

CONTINUED...

The Concave Shape of the Forced Expiratory Flow-Volume Curve in 3 Seconds Is a Practical Surrogate of FEV ₁ /FVC for the Diagnosis of Airway Limitation in Inadequate Spirometry by Hao Li, Chunhong Liu, Yi Zhang, and Wei Xiao—Shandong, China	363
Beliefs and Attitudes Associated With Hookah Smoking Among a United States College Population by Mary P Martinasek, Christopher W Wheldon—Tampa, Florida Linda G Haddad and Tracey E Barnett—Gainesville, Florida	370
Editorials	
The Handle of the Broom by Derek S Wheeler—Cincinnati, Ohio	380
Data-Driven Medicine: A Meaningful Use of Patient Data to Improve Process Adherence and Patient Outcome of Mechanically Ventilated Subjects by Walter Verbrugghe and Philippe G Jorens—Edegem, Belgium	382
The Respiratory Therapy Profession Is at a Crossroads by Robert M Kacmarek—Boston, Massachusetts and Brian K Walsh—Irving, Texas	384
Correspondence	
Continuous Mouthpiece Daytime Amyotrophic Lateral Sclerosis in Noninvasive Ventilation: Definitive Solid Therapy? by Giuseppe Fiorentino—Naples, Italy and Antonio M Esquinas—Murcia, Spain author reply by Marie-Eve Bédard—Québec, Canada and Douglas A McKim—Ontario, Canada	387
P_{aO_2}/F_{IO_2} Is Not a Guesstimation by Mary Ann Couture—Hartford, Connecticut author reply by Zujin Luo and Zhixin Cao—Beijing, China	388
Preoxygenation With High-Flow Nasal Cannula: Benefits of Its Extended Use During the Process of Intubation by Igor Barjaktarevic, James Johannes—Los Angeles, California	
Antonio M Esquinas—Murcia, Spain and David A Berlin—New York, New York	390





