## CONTENTS

November 2015 / VOLUME 60 / NUMBER 11

## 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 18000 W 105th St Olathe KS 66061 (913) 895-4900 • Fax (913) 895-4650 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 November 2015 Issue

#### Editor's Choice

Comparison of Proportional Assist Ventilation Plus, T-Tube Ventilation, and Pressure Support Ventilation as Spontaneous Breathing Trials for Extubation: A Randomized Study

by Sandy Nogueira Teixeira, Erica Fernanda Osaku, Claudia Rejane Lima de Macedo Costa, Beatriz Fernandes Toccolini, Nicolle Lamberti Costa, Maria Fernanda Cândia, Marcela Aparecida Leite, Amaury Cezar Jorge, and Péricles Almeida Delfino Duarte— Paraná, Brazil

#### Original Research

Face Masks for Noninvasive Ventilation: Fit, Excess Skin Hydration, and Pressure Ulcers

by Marty O Visscher, Cynthia White, Jennifer M Jones, Thomas Cahill, Donna C Jones, and Brian S Pan—Cincinnati, Ohio

Monitoring Dead Space in Mechanically Ventilated Children: Volumetric Capnography Versus Time-Based Capnography

by Anoopindar K Bhalla, Sarah Rubin, Christopher JL Newth, Patrick Ross, Rica Morzov, Gerardo Soto-Campos, and Robinder Khemani—Los Angeles, California

Respiratory Therapist Job Perceptions: The Impact of Protocol Use by Ashley Y Metcalf, Marco Habermann—Athens, Ohio

James K Stoller—Cleveland, Ohio
and Timothy D Fry—Columbia, South Carolina

Improvement in the Prediction of Ventilator Weaning Outcomes by an

Artificial Neural Network in a Medical ICU by Hung-Ju Kuo, Chun-Nin Lee, Tzu-Tao Chen, Chih-Cheng Chang—New Taipei City, Taiwan Hung-Wen Chiu and Mauo-Ying Bien—Taipei, Taiwan

Pressurized Metered-Dose Inhalers Versus Nebulizers in the Treatment of Mechanically Ventilated Subjects With Artificial Airways: An In Vitro Study by Arzu Ari, Robert J Harwood, Meryl M Sheard—Atlanta, Georgia

by Arzu Ari, Robert J Harwood, Meryl M Sheard—Atlanta, Georgia
and James B Fink—San Mateo, California

Acute Mucociliary Clearance Response to Aerobic Exercise in Smokers by Ercy MC Ramos, Luiz Carlos M Vanderlei, Juliana T Ito, Fabiano F Lima, Fernanda MM Rodrigues, Beatriz M Manzano, Rômulo A Fernandes, Michel J Cecílio, Alessandra C Toledo-Arruda, and Dionei Ramos—São Paulo, Brazil

Factors Associated With Quality of Life in Subjects With Stable COPD by Aydanur Ekici, Emel Bulcun, Tulay Karakoc, Erol Senturk, and Mehmet Ekici—Kırıkkale, Turkey

Multimorbidity and COPD Medication Receipt Among Medicaid Beneficiaries With Newly Diagnosed COPD

by Mayank Ajmera—Research Triangle Park, North Carolina Usha Sambamoorthi, Aaron Metzger, Nilanjana Dwibedi, Cindy Tworek—Morgantown, West Virginia and George Rust—Atlanta, Georgia

Pulmonary Rehabilitation in COPD: Effect of 2 Aerobic Exercise Intensities on Subject-Centered Outcomes—A Randomized Controlled Trial by Catarina Santos, Fátima Rodrigues, Joana Santos, Luísa Morais, and Cristina Bárbara—Lisbon, Portugal

Low Cognitive Ability in Subjects With Bronchiectasis by Pınar Yıldız Gülhan, Emel Bulcun, Mustafa Gülhan, Dilay Çimen, Aydanur Ekici, and

Mehmet Ekici-Kırıkkale, Turkey

1610

1603

1527

1536

1548

1556

1560

1570

1575

1585

1592

# CONTENTS

CONTINUED...

Quality of Life and Bronchial Hyper-Responsiveness in Subjects With Bronchiectasis: Validation of the Seattle Obstructive Lung Disease Questionnaire in Bronchiectasis by Emel Bulcun, Mesut Arslan, Aydanur Ekici, and Mehmet Ekici—Kırıkkale, Turkey	1616
A Qualitative Exploration of Exercise Among Pulmonary Rehabilitation Participants: Insight From Multiple Sources of Social Influence by Chad SG Witcher—Lethbridge, Canada Kerry R McGannon—Sudbury, Canada Paul Hernandez, Gail Dechman, Suzanne Ferrier, Chris M Blanchard—Halifax, Canada John C Spence—Edmonton, Canada Paul Per Polytonica Canada	1624
and Ryan E Rhodes—Victoria, Canada  Predicting the Outcomes of Subjects With Severe Community-Acquired Pneumonia Using	1024
Monocyte Human Leukocyte Antigen-DR by Yugang Zhuang, Wenjie Li, Huiqi Wang, Hu Peng, Yanqing Chen, Xiangyu Zhang, Yuanzhuo Chen, and Chengjin Gao—Shanghai, China	1635
The Plasminogen System and Transforming Growth Factor-β in Subjects With Obstructive Sleep Apnea Syndrome: Effects of CPAP Treatment by Alessia Steffanina, Lidia Proietti, Paolo Palange, Rita Canipari, Elena Angelici—Rome, Italy	
and Caterina Antonaglia—Trieste, Italy	1643
Review	
tematic Review of Inspiratory Muscle Training After Cerebrovascular Accident ocio Martín-Valero, Maria De La Casa Almeida, Maria Jesus Casuso-Holgado—Osuna, Spain Alfonso Heredia-Madrazo—Málaga, Spain	4050
	1652
30th Annual New Horizons Symposium: Approaches to Refractory Hypoxem	IC
Respiratory Failure—Ventilate, Oscillate, Cannulate, or Rotate	
A Comprehensive Review of Prone Position in ARDS by Richard H Kallet—San Francisco, California	1660
Recruitment Maneuvers and PEEP Titration by Dean R Hess—Boston, Massachusetts	4.000
by Dear R Hess Boston, Massachusens	1688
Editorials	
Why Use Anything But a Standard Spontaneous Breathing Trial to Determine Readiness for Ventilator Discontinuation?	
by Robert M Kacmarek—Boston, Massachusetts Jesus Villar and Lluís Blanch—Madrid, Spain	1705
Noninvasive Ventilatory Support: The Detail Lies in the Interface by Andrew C Argent—Cape Town, South Africa	1708
Capnography: A Feasible Tool in Clinical and Experimental Settings	
by Pricila Mara Novais de Oliveira—Juiz de Fora, Brazil	1711





