CONTENI

January 2018 / VOLUME 63 / NUMBER 1

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 January 2018 Issue	i
Editor's Choice	
Spontaneous Breathing Trials and Conservative Sedation Practices Reduce Mechanical Ventilation Duration in Subjects With ARDS by Richard H Kallet, Hanjing Zhuo, Vivian Yip, Antonio Gomez, and Michael S Lipnick—San Francisco, California	1
Original Research	
Perceived Satisfaction With Long-Term Oxygen Delivery Devices Affects Perceived Mobility and Quality of Life of Oxygen-Dependent Individuals With COPD	
by Constance C Mussa, David Vines, Yi-Fan Chen—Chicago, Illinois and Laura Tonyan—Racine, Wisconsin	11
A Quality Improvement Project to Improve Evidence-Based Inhaled Nitric Oxide Use by Colleen A Hughes Driscoll, Natalie L Davis, Megan Miles, and Dina El-Metwally	
—Baltimore, Maryland	20
Noninvasive Ventilation in Obese Subjects After Acute Respiratory Failure by Charlotte Bry, Sandrine Jaffré, Béatrice Guyomarc'h, Frédéric Corne, Sylvaine Chollet, Antoine Magnan, and François-Xavier Blanc—Nantes, France	28
Emergency Department Blood Gas Utilization and Changes in Ventilator Settings by Haitham S Al Ashry, Jeremy B Richards, Jeffrey Sankoff, Todd A Seigel, Lauren B Angotti, Susan R Wilcox—Charleston, South Carolina and Daniel F Fisher—Boston, Massachusetts	3 6
Predicting 30-Day All-Cause Readmission Risk for Subjects Admitted With Pneumonia at the Point of Care by Umur Hatipoğlu, Kevin Chagin, Dhruv Joshi, Alex Milinovich, Michael B Rothberg —Cleveland, Ohio and Brian J Wells—Winston-Salem, North Carolina	43
Economic Assessment of 4 Approaches to the Diagnosis and Initial Treatment of Sleep Apnea by Dawn M Bravata, Nancy Lightner, Edward J Miech—Indianapolis, Indiana and H Klar Yaggi—New Haven, Connecticut	50
Heart Rate Variability in Extremely Preterm Infants Receiving Nasal CPAP and Non-Synchronized Noninvasive Ventilation Immediately After Extubation by Samantha Latremouille, Ali Al-Jabri, Philippe Lamer, Lara Kanbar, Wissam Shalish, Robert E Kearney, and Guilherme M Sant'Anna—Montreal, Canada	6 2
Maternal Stress During Pregnancy and Allergic Diseases in Children During the First Year of Life	

by Katarzyna Smejda, Kinga Polanska, Dorota Merecz-Kot, Anna Krol, Wojciech Hanke, Joanna Jerzynska, Włodzimierz Stelmach, Paweł Majak, and Iwona Stelmach—Lodz, Poland

70

Modified Medical Research Council Dyspnea Scale in GOLD Classification Better Reflects Physical Activities of Daily Living by Anelise B Munari, Aline A Gulart, Karoliny dos Santos, Raysa S Venâncio, Manuela Karloh, and Anamaria F Mayer—Santa Catarina, Brazil

Inspiratory Muscle Performance of Former Smokers and Nonsmokers Using the Test of Incremental Respiratory Endurance by Magno F Formiga, Lawrence P Cahalin—Coral Gables, Florida and Michael A Campos-Miami, Florida

CONTENTS

CONTINUED...

INVITED REVIEW The Role of Rescue Therapies in the Treatment of Severe ARDS 92 by Francesco Alessandri, Francesco Pugliese, and V Marco Ranieri—Rome, Italy Special Articles Utilizing Respiratory Therapists to Reduce Costs of Care by Ellen A Becker, Corinne H Miller—Chicago, Illinois Cheryl A Hoerr—Rolla, Missouri Kimberly S Wiles-Ford City, Pennsylvania Debra L Skees-Coon Rapids, Minnesota 102 and Douglas S Laher-Irving, Texas Leadership by Example: The Editorial Tenure of Dean Hess by Richard D Branson—Cincinnati, Ohio Editorials Ecological Validity in the Critical Care Environment: Closing the Loop on Evidence Based Medicine by Matthew B Maas-Chicago, Illinois COPD and Physical Activity: A Call to Action for Respiratory Therapists and Patients by David M Burnett-Kansas City, Kansas Noninvasive Ventilation in Obese Patients After Acute Respiratory Failure: Big Questions Remain 123 by Alanna Hare-London, United Kindom Correspondence Why All the Shots at Airway Pressure Release Ventilation When Conventional Ventilation Doesn't Have Consensus? 127

author reply by Neil R MacIntyre, Andrew G Miller, Michael A Gentile, and John D Davies-Durham, North Carolina



by Aaron Light—Springfield, Missouri



