## 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** 



# CONTEN

November 2024 / VOLUME 69 / NUMBER

# Editor's Commentary

Commentary on the November 2024 Issue

## Editor's Choice

Comparison of Web-Based and On-Site Lung Simulators for Education in Mechanical Ventilation by Sami Safadi-Minneapolis, Minnesota Megan Acho-Ann Arbor, Michigan Stephanie I Maximous—Pittsburgh, Pennsylvania Michael B Keller, Junfeng Sun, Burton W Lee, Nitin Seam-Bethesda, Maryland Eric Kriner, Christian J Woods-Washington, DC and Bashar S Staitieh—Atlanta, Georgia

## Original Research

Rehabilitation Is Associated With Improvements in Post–COVID-19 Sequelae by Andreas Asimakos, Spyros Mentzelopoulos, Archontoula Antonoglou, Spyros Zakynthinos, Ioanna Dimopoulou, Paraskevi Katsaounou, Stavroula Spetsioti, Dimitrios Spaggoulakis, Alice G Vassiliou, Pantelis Gounopoulos—Athens, Greece Ioannis Vogiatzis—Newcastle, United Kingdom and Sofia Pappa—London, United Kingdom	1361
Perspectives on Using Race in Pulmonary Function Testing: A National Survey of Fellows and Program Directors by Debasree Banerjee, Sara Aijaz, Sneha Lakshman, Eric J Gartman, Andrew Levinson, Gerardo Carino, Stephen R Walsh, Chelsea Boyd, Quincy Brown, Amy Mathew,	1371

Rochelle K Rosen, Ryan Lantini, Lundy Braun-Providence, Rhode Island Nicholas J Nassikas-Boston, Massachusetts Parvati Singh—New Haven, Connecticut and Sarah B Andrea-Portland, Oregon

## Quantitative Computed Tomography and Response to Pronation in **COVID-19 ARDS**

by Francesco Zadek, Amos Bonaiti, Giulia Tundo, Beatrice Brunoni, Davide Paolo Bernasconi, Roberto Fumagalli, Thomas Langer-Monza, Italy Luca Berta, Paola Enrica Colombo, Alberto Torresin, Giulia Zorzi, Stefania Ubiali, Francesco Marrazzo, Riccardo Giudici, Anna Rossi, Francesco Rizzetto and Angelo Vanzulli-Milan, Italy

Invasive Mechanical Ventilation and Risk of Hospital-Acquired Venous Thromboembolism by Elizabeth E Havlicek—Tampa, Florida Jamie Palumbo, Gerardo Soto-Campos—Los Angeles, California Neil A Goldenberg—Baltimore, Maryland and Anthony A Sochet—St. Petersburg, Florida	1392	
Feasibility of Delivering 5-Day Normobaric Hypoxia Breathing in a Hospital Setting by Lorenzo Berra, Kyle J Medeiros, Francesco Marrazzo, Sarvagna Patel, David Imber,	1400	

Emanuele Rezoagli, Binglan Yu, Abraham Sonny, Edward A Bittner, Fumito Ichinose, Daniel Fisher, Daniel Chipman, Rohit Sharma, Brianna E Gray, N Stuart Harris, Vamsi K Mootha-Boston, Massachusetts and Hardik Shah-Chicago, Illinois

The Impact of Increased PEEP on Hemodynamics, Respiratory Mechanics, 1409 and Oxygenation in Pediatric ARDS by Fernanda MD Junqueira, Isabel S Ferraz, Fábio J Campos, Toshio Matsumoto, Marcelo B Brandão, Roberto JN Nogueira, and Tiago H de Souza-São Paulo, Brazil

Effect of Fasting Prior to Extubation on Prevalence of Empty Stomach in Enterally Fed and Mechanically Ventilated Patients by Esther Tang, Albert KM Chan, and Lowell Ling-Hong Kong SAR, China

1380

1353

# <u>CONTENTS</u>

CONTINUE	D
The Impact of Opioid Prescription on the Occurrence and Outcome of Pneumonia: A Nationwide Cohort Study in South Korea <i>by Tak Kyu Oh and In-Ae Song—Seongnam, South Korea</i>	1424
Effects of Lung Injury and Abdominal Insufflation on Respiratory Mechanics and Lung Volume During Time-Controlled Adaptive Ventilation by Harry Ramcharran, Joshua Satalin, Sarah Blair, Gary F Nieman, Michaela Kollisch-Singule—Syracuse, New York Gregory Wetmore—Cincinnati, Ohio Scott Cooper—Atlanta, Georgia Jacob Herrmann, Andrea Fonseca da Cruz, David W Kaczka, Penny L Andrews—Iowa City, Iowa and Nader M Habashi—Baltimore, Maryland	1 4 3 2
Short Report	
Exploring the Impact of Varied Design Approaches and Materials in Respiratory Therapy Education by Shih-Hsing Yang, Wei-Lun Liu, Chao-Yu Chen, Hsia-Wei Liu, and Ke-Yun Chao-New Taipei City, Taiwan	1444
NARRATIVE REVIEW	
Downstream Effects of Market Changes on Inhalers: Impacts on Individuals With Chronic Lung Disease by Joyce A Baker, Laney D Brennan—Aurora, Colorado and Mitzi L Cardona—Omaha, Nebraska	1448
Systematic Review	
Home Respiratory Strategies in Patients With COPD With Chronic Hypercapnic Respiratory Failure by Tyler Pitre, Saad Abbasi, George V Kachkovski, Levi Burns, Peter Huan—Toronto, Canada Bram Rochwerg, Dena Zeraatkar—Hamilton, Canada Jasmine Mah—Halifax, Canada Claudia Crimi—Catania, Italy and Andrea Cortegiani—Palermo, Italy	1457
Editorials	
Simulation in Mechanical Ventilation Training: Integrating Best Practices for Effective Education by Eduardo Mireles-Cabodevila, Kimber Catullo, and Robert L Chatburn—Cleveland, Ohio	1468
Supporting Evidence For Pulmonary Rehabilitation in the Treatment of Long COVID by Dave M Burnett—Kansas City, Kansas	1477
The Challenge of Implementing Race-Neutral PFT Reference Equations by Ellen A Becker—Chicago, Illinois	1480
Comparing Highs and Flows in Patients With COPD With Chronic Hypercapnic Respiratory Failure by Guy W Soo Hoo—Los Angeles, California	1482
Correspondence	
The Evolution of Intermittent Mandatory Ventilation: Update and Implications for Home Care by Robert L. Chatburn and Umur Hatipoğlu—Cleveland, Ohio	1484
Nocturnal Pressure Support Ventilation: Truth or Dare? by Aurio Fajardo-Campoverdi—Quillota, Chile Alberto Medina—Oviedo, Spain and Angelo Roncalli-Rocha—Maceió, Brazil	1486
Reply to Letter to Editor Concerning "Nocturnal Pressure Controlled Ventilation Improves Sleep Efficiency in Patients Receiving Mechanical Ventilation" <i>by Tzu-Tao Chen, Kun-Ta Lee, Ka-Wai Tam, and Ming-Chi Hu—New Taipei City, Taiwan</i>	1488

