CONTENTS

August 2019 / VOLUME 64 / NUMBER 8

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

Nova Scotia, Canada



Editor's Commentary	
Commentary on August 2019 Issue	i
Editor's Choice	
Reassessing a Respiratory Therapy Consult Service After 20 Years by Robert L Chatburn, Angela M Demchuk, and James K Stoller—Cleveland, Ohio	875
Original Research	
Driving Pressure: Defining the Range by Arianne K Baldomero, Paula K Skarda, and John J Marini—Minneapolis, Minnesota	883
Attaining Low Tidal Volume Ventilation During Patient Triggered Ventilation in Sedated Subjects by Moe Koide, Akinori Uchiyama, Tomonori Yamashita, Takeshi Yoshida, and Yuji Fujino —Suita, Japan	890
Safety of Positive Pressure Extubation Technique by Mauro F Andreu, Matías N Bertozzi, María E Dotta, Marco G Bezzi, Silvina Borello, Gimena P Cardoso, Paula C Dib, Silvina L García Schustereder, Alejandra M Galloli, Daniela R Castro, Victoria L Di Giorgio, Federico J Villalba, Juan M Carballo, María C Martín, Carla C Brovia, María C Pita, María P Pedace, María F De Benedetto, Julieta Delli Carpini, Patricio Aguirre, and Gisela Montero—Buenos Aires, Argentina	899
The Double-Trunk Mask Improves Oxygenation During High-Flow Nasal Cannula Therapy for Acute Hypoxemic Respiratory Failure by Frédéric Duprez, Shahram Machayekhi—Hornu, Belgium Arnaud Bruyneel, Serge Brimioulle, Gregory Reychler—Brussels, Belgium Marie Droguet, Yves Bouckaert—La Louvière, Belgium and Gregory Cuvelier—Tournai, Belgium	908
The Impact of Delayed Diagnosis of Alpha-1 Antitrypsin Deficiency: The Association Between Diagnostic Delay and Worsened Clinical Status by Vickram Tejwani—Baltimore, Maryland Amy S Nowacki, James K Stoller—Cleveland, Ohio Erica Fye, and Christopher Sanders—Fulton, Maryland	915
Gait Monitoring and Walk Distance Estimation With an Accelerometer During 6-Minute Walk Test by Yann Retory—Gentilly, France Marcel Bonay—Montigny-le-Bretonneux, France Pascal David—Abbeville, France Pauline Niedzialkowski, Carole de Picciotto—Boulogne-Billancourt, France and Michel Petitjean—Clamart, France	923
Race/Ethnicity and 30-Day Readmission Rates in Medicare Beneficiaries With COPD by Daneen R Nastars, Josè D Rojas, Kenneth J Ottenbacher—Galveston, Texas and James E Graham—Fort Collins, Colorado	931
Reference Equations for the ADL-Glittre Test in Pediatric Subjects by Renata Martins, Anamaria F Mayer, Camila IS Schivinski—Florianópolis, Brazil and Tatiana G Bobbio—College Station, Texas	937
Working to Have a Normal Life With Cystic Fibrosis in an Adherence-Driven Health Care System by Marilyn Macdonald, Ariella Lang—Halifax, Nova Scotia, Canada Eileen Savage—Cork, Ireland Valerie Chappe, Andrea Murphy, Frances Gosse and Heather MacLean—Halifax, Nova Scotia, Canada	945

CONTENTS

CONTINUED...

New Horizons Symposium	
Ventilator-Associated Events: What They Are and What They Are Not by Michael Klompas—Boston, Massachusetts	953
Aerosolized Antibiotics for Treatment of Pneumonia in Mechanically Ventilated Subjects by Fatima J Wong, Tina Dudney, and Rajiv Dhand—Knoxville, Tennessee	962
The Role of Specialty Tubes in Preventing Ventilator-Associated Events by Thomas Piraino—Toronto, Ontario, Canada	980
Airway Management and Ventilator-Associated Events by Amanda M Dexter—Charlotte, North Carolina and J Brady Scott—Chicago, Illinois	986
Ventilator Bundles in Transition: From Prevention of Ventilator-Associated Pneumonia to Prevention of Ventilator-Associated Events by Richard H Kallet—McClellan Park, CA	994
Year in Review	
2018 Year in Review: Sleep by Brian W Carlin—Ingomar, Pennsylvania	1007
Editorials	
Moving the Practice of Respiratory Therapy Forward by Marin H Kollef and Peggy Watts—St. Louis, Missouri	1014
Driving Pressure: The Road Ahead by Sarina K Sahetya—Baltimore, Maryland and Eddy Fan—Toronto, Ontario, Canada	1017
Spontaneous Inspiratory Effort During Lung-Protective Ventilation by Steven Deem—Seattle, Washington	1021





