EDITOR'S COMMENTARY
Commentary on the October 2014 Issue

EDITOR'S CHOICE
Neonatal and Adult ICU Ventilators to Provide Ventilation in Neonates, Infants, and Children: A Bench Model Study
by Laurence Vignaux—Meyrin, Switzerland
Lise Piquilloud—Lausanne, Switzerland
Pierre Tourneux—Amiens, France
Philippie Jolliet—Lausanne, Switzerland
and Peter C Rimensberger—Geneva, Switzerland

ORIGINAL RESEARCH
Intermittent Aerosol Delivery to the Lungs During High-Flow Nasal Cannula Therapy
by Laleh Golshahi, P Worth Longest, Mandana Azimi, Aamer Syed, and Michael Hindle—Richmond, Virginia

A Unidirectional Breathing Pattern Improves Breathing Efficiency in Subjects With Severe COPD
by Demet S Salemanji, Fangping Bao, Yandong Jiang, and Robert M Kacmarek—Boston, Massachusetts

In Vitro Evaluation of Aerosol Delivery by Different Nebulization Modes in Pediatric and Adult Mechanical Ventilators
by Gwo-Hwa Wan, Hui-Ling Lin—Taoyuan, Taiwan
James B Fink—Atlanta, Georgia
Yen-Hey Chen—Taoyuan, Taiwan
Wei-Jhen Wang, Yu-Chun Chiu—Taipei, Taiwan
Yu-Yao Kuo, and Chia-Jung Liu—Taoyuan, Taiwan

Effect of Drug Targeting Nebulization on Lung Deposition: A Randomized Crossover Scintigraphic Comparison Between Central and Peripheral Delivery
by Gregory Reychler, Anne-Sophie Aubriot, Virginie Depoortere, François Jamar, and Giuseppe Liistro—Brussels, Belgium

Ventilator-Integrated Jet Nebulization Systems: Tidal Volume Control and Efficiency of Synchronization
by Stephan Ehrmann—Créteil, France
Aissam Lyazidi—Geneva, Switzerland
Bruno Louis, Daniel Isabey—Créteil, France
Déborah Le Pennec—Tours, France
Laurent Brochard and Gabriela Apiou-Shirlea—Créteil, France

Identifying Cancer Subjects With Acute Respiratory Failure at High Risk for Intubation and Mechanical Ventilation
by Virginie Lemiale, Jérôme Lambert, Emmanuel Canet—Paris, France
Djamel Mokart—Marseille, France
Frederic Pène, Antoine Rabitat—Paris, France
Achille Kouatchet—Angers, France
François Vincent—Bobigny, France
Fabrice Brunel—Versailles, France
Didier Gruson—Bordeaux, France
Sylvie Chevret and Elie Azoulay—Paris, France

Inappropriate Discharge on Bronchodilators and Acid-Blocking Medications After ICU Admission: Importance of Medication Reconciliation
by Andrey Pavlov, Rostislav Muravyev—New Britain, Connecticut
Yaw Amaoteng-Adjepong—Bridgeport, Connecticut
and Constantine A Manthous—New Britain, Connecticut
Treatment-Related Risk Factors for Development of Skin Breakdown in Subjects With Acute Respiratory Failure Undergoing Noninvasive Ventilation or CPAP
by Wellington P Yamaguti, Eliana V Moderno, Sandra Y Yamashita, Thelma GMC Gomes, Ana Lígia V Maia, Claudia S Kondo, Isabel CD de Salles, and Christina MM de Brito—São Paulo, Brazil

Time Point to Perform Lung Function Tests Evaluating the Effects of an Airway Clearance Therapy Session in Cystic Fibrosis
by Maria Cecilia Rodríguez Hortal and Lena Hjelte—Stockholm, Sweden

Diagnostic and Prognostic Value of Plasma Adrenomedullin in COPD Exacerbation
by Da-Quan Meng—Wuhan, China
Xiao-Juan Li, Xin-Yu Song—Yichang, China
Jian-Bao Xin, and Wei-Bing Yang—Wuhan, China

Inhaled Corticosteroids Do Not Influence the Early Inflammatory Response and Clinical Presentation of Hospitalized Subjects With COPD Exacerbation
by Ernesto Crisafulli—Mantua, Italy
Mónica Guerrero—Barcelona, Spain
Rosario Menéndez—Valencia, Spain
Arturo Huerta—Barcelona, Spain
Raquel Martinez, Alexandra Gimeno—Valencia, Spain
Néstor Soler, and Antoni Torres—Barcelona, Spain

Subjects Hospitalized With the 2009 Pandemic Influenza A (H1N1) Virus in a Respiratory Infection Unit: Clinical Factors Correlating With ICU Admission
by Nikoletta Rovina, Magdalini Erifaki, Paraskevi Katsaounou, Georgia Lyxi, Antonia Koutsoukou, Nikolaos G Kouloris, and Manos Alchanatis—Athens, Greece

Pulmonary Rehabilitation Improves Subjective Sleep Quality in COPD
by Chou-Chin Lan, Hui-Chuan Huang, Mei-Chen Yang, Chih-Hsin Lee, Chun-Yao Huang, and Yao-Kuang Wu—New Taipei City, Taiwan

Impact of Pulmonary Rehabilitation in Subjects With Mild COPD
by Cristina Jácome and Alda Marques—Aveiro, Portugal

Head-of-Bed Elevation Improves End-Expiratory Lung Volumes in Mechanically Ventilated Subjects: A Prospective Observational Study
by Amy J Spooner, Amanda Corley, Nicola A Sharpe, Adrian G Barnett, Lawrence R Caruana, Naomi E Hammond, and John F Fraser—Brisbane, Australia

29TH ANNUAL NEW HORIZONS SYMPOSIUM: BACK TO BASICS—RESPIRATORY PHYSIOLOGY IN CRITICALLY ILL PATIENTS

Tissue Hypoxia: Implications for the Respiratory Clinician
by Neil R MacIntyre—Durham, North Carolina

Carbon Dioxide in the Critically Ill: Too Much or Too Little of a Good Thing?
by Jonathan Marhong and Eddy Fan—Toronto, Ontario, Canada

EDITORIALS

Neonatal Pressure Support Ventilation: Are We Doing What We Think We Are Doing?
by Michael A Hokenson and Edward G Shepherd—Columbus, Ohio

Engineered Aerosol Medicine and Drug Delivery Methods for Optimal Respiratory Therapy
by Mohammed Ali—Jackson, Mississippi
2014 OPEN FORUM ABSTRACTS

Introduction

2014 OPEN FORUM Abstracts

OPEN FORUM Author Index

Appreciation of Reviewers

AARC CONGRESS 2014

Exhibitors Index

PUBLISHED ONLINE (WWW.RCJOURNAL.COM)

CASE REPORTS

A Case of Drug-Induced Interstitial Pneumonia Potentially Related to Quetiapine (Seroquel) Therapy for Behavioral and Psychological Symptoms
by Se-Jin Kim—Seongnamsi, Korea
Sang-Don Han, Jung Yeon Lee, and Gyu Rak Chon—Changju, Korea

Noninvasive Ventilation in Severe Acute Asthma
by Jhaymie L Cappiello and Michael B Hocker—Durham, North Carolina

Common Carotid Artery Laceration and Innominate Artery Pseudo-Aneurysm Following a Percutaneous Dilatational Tracheostomy Attempt
by Parag A Brahmbhatt, Fagun D Modi—Johnson City, Tennessee
Thomas M Roy and Ryland P Byrd Jr—Mountain Home, Tennessee

Severe Excessive Dynamic Airway Collapse in a Patient With Primary Sjögren’s Syndrome
by Sophie Ismael, Delphine Wermert, Kim-Diep Dang-Tran, Marion Venot, Jean-Yves Fagon and Jean-Luc Diehl—Paris, France

TEACHING CASES

Immune Reconstitution Inflammatory Syndrome
by Chang-Han Lo and Te-Yu Lin—Taipei, Taiwan

Extracorporeal Membrane Oxygenation for Refractory Air Leak in a Child Presenting With Bacterial Tracheitis
by Anna Dolgner—Durham, North Carolina
Jesse Bain—Richmond, Virginia
Stacey L Peterson-Carmichael, David A Turner, and Kyle J Rehder—Durham, North Carolina