Complications From Recruitment Maneuvers in Patients With Acute Lung Injury: Secondary Analysis From the Lung Open Ventilation Study by Eddy Fan—Toronto, Ontario, Canada
William Checkley—Baltimore, Maryland
Thomas E Stewart—Toronto, Ontario, Canada
John Muscedere—Kingston, Ontario, Canada
Olivier Lesar—Sherbrook, Quebec, Canada
John T Granton—Toronto, Ontario, Canada
Andreas P Freitag—Hamilton, Ontario, Canada
Michael Jacka—Kingston, Ontario, Canada
Naif D Ferguson—Toronto, Ontario, Canada
and Maureen O Meade—Hamilton, Ontario, Canada

Recruitment Maneuver in Prevention of Hypoxia During Percutaneous Dilational Tracheostomy: Randomized Trial by Federico Franchi, Lucia Cubatotti, Agnese Faiiott, Sabino Scolletta, Elena Falconi, Egido Mastrococque, Pierpaolo Giomarelli—Siena, Italy
and Nicolò Patroniti—Milano, Italy

Isoflurane for Life-Threatening Bronchospasm: A 15-Year Single-Center Experience by David A Turner—Durham, North Carolina
David Heitz—Atlanta, Georgia
Mehrengise K Cooper—London, United Kingdom
P Brian Smith—Durham, North Carolina
John H Arnold—Boston, Massachusetts
and Scot T Bateman—Worcester, Massachusetts

Inspiratory Limb Carbon Dioxide Entrainment During High-Frequency Oscillatory Ventilation: Characterization in a Mechanical Test Lung and Swine Model by Adam W Bostick, Gregory A Naworol, Tyler J Britton, Timothy R Ori, Shawn K French, and Stephen Derdak—San Antonio, Texas

Humidified High Flow Nasal Oxygen During Respiratory Failure in the Emergency Department: Feasibility and Efficacy by Hugo Langelot, Benjamin Szyrnyf, Christophe Leroy, Patrick Brun, Didier Dreyfuss, and Jean-Damien Ricard—Colombes, France

Short-Term Effects of Humidification Devices on Respiratory Pattern and Arterial Blood Gases During Noninvasive Ventilation by François Lellouche, Claudia Pignatario, Salvatore Maurizio Maggiore, Emmanuelle Girou—Créteil, France
Nicolas Dey—Paris, France
Soleme Taillé, Marc Fischler, and Laurent Brochard—Créteil, France

Practice of Excessive FiO2 and Effect on Pulmonary Outcomes in Mechanically Ventilated Patients With Acute Lung Injury by Sonal Rachmale, Guangxi Li, Gregory Wilson, Michael Malinchoc, and Ognyan Gajic—Minneapolis, Minnesota

Influence of Nebulizer Type With Different Pediatric Aerosol Masks on Drug Deposition in a Model of a Spontaneously Breathing Small Child by Hui-Ling Lin, Gwo-Hwa Wan, Yuan-Huey Chen—Taoyuan, Taiwan
James B Fink—Atlanta, Georgia
Wen-Qie Liu—Keelung, Taiwan
and Kai-Ying Liu—Linkou, Taiwan


Does Experience Influence the Performance of Neonatal and Pediatric Manual Hyperinflation? by Priscila Mara Novaes de Oliveira, Armando Augusto Almeida-Júnior, Celzice Cruz Bresciani Almeida, Maria Angela Gonçalves de Oliveira Ribeiro, and José Dirceu Ribeiro—São Paulo, Brazil

CPAP Has No Effect on Clearance, Sputum Properties, or EXPECTORATED VOLUME in Cystic Fibrosis by Evarinario Silva Aquino—Minas Gerais, Brazil
Francine Shimura, Adriane Silveira Santos, Daniele Miyuki Goto—São Paulo, Brazil
Cristiane Cenachi Coelho, Marcelo Bicalho de Fuccio—Minas Gerais, Brazil
Paulo Hilário Nascimento Saldana, Geraldo Lorenzi-Filho—São Paulo, Brazil
Bruce R Rubin—Richmond, Virginia
and Naomi Kondo Nakagawa—São Paulo, Brazil
Comparison of Cardiopulmonary Responses During 2 Incremental Step Tests in Subjects With COPD
by Carlos Henrique Silva de Andrade, Anderson Alves de Camargo, Brenda Pitman de Castro—São Paulo, Brazil
Carla Malaguti—Minas Gerais, Brazil
and Simone Dal Corso—São Paulo, Brazil

Bronchoscopic Lung Biopsy Using Noninvasive Ventilatory Support: Case Series and Review of Literature of NIV-Assisted Bronchoscopy
by Ritesh Agarwal, Ajmal Khan, Ashutosh N Aggarwal, and Dheeraj Gupta—Chandigarh, India

Nocturnal Hypoxemia, But Not Hypercapnia, Correlates With Sleep Quality in Children
by Uros Krivec—Ljubljana, Slovenia
Marie Antonia Quere Salvo—Garches, France
Isabelle Constant—Paris, France
Adriana Ramirez—Suresnes, France
Frederic Lofaso—Garches, France
Jean-Louis Pepin—Grenoble, France
and Brigitte Faurot—Paris, France

Arterial Sampler Filling Time During Arterial and Venous Punctures, and Its Relationship with Mean Arterial Pressure in Human Subjects
by Jeffrey J Bender, Jennie R Allison, Jeremy J Goehring, Mihal D Patel, Sean M Niederst, and F Herbert Douce—Columbus, Ohio

The Functional Assessment of Patients With Pulmonary Multidrug-Resistant Tuberculosis

AARC Clinical Practice Guideline
Transcutaneous Monitoring of Carbon Dioxide and Oxygen: 2012
by Ruben D Restrepo—San Antonio, Texas
Keith R Hirst—Chicago, Illinois
Leonard Wittnebel, and Richard Wettstein—San Antonio, Texas

Case Reports
A Case of Unexplained Hypoxemia
by Poul Henning Madsen, Soren Hess, and Helle Dall Madsen—Odense, Denmark

Dexmedetomidine for Sedation in the Parturient With Respiratory Failure Requiring Noninvasive Ventilation
by Melissa Duan, Jarone Lee, and Edward A Bittner—Boston, Massachusetts

Teaching Cases of the Month
ARDS Secondary to Descending Necrotizing Mediastinitis Treated By Long-Term Extracorporeal Respiratory Support
by Federico Franchi, Riccardo Silvestri, Lucia Cubattoli, Luca Voltolini, Maria Antonietta Mazzei, and Pierpaolo Gionarelli—Siena, Italy

Mycoplasma pneumoniae Bronchiolitis Mimicking Asthma in an Adult
by Viswanath P Vasudevan, Manoj Suryanarayanan, Saleem Shahzad, and Malik Meghani—Brooklyn, New York

Unusual Discrepancy Between \(S_{\text{PO}_2}\) and \(S_{\text{O}_2}\) in a 31-Year-Old Man With Chronic Myelogenous Leukemia
by Yueh-Feng Wen and Ping-Hung Kuo—Taipei, Taiwan

Editorials
Where Should the Recruitment Maneuver Go?
by Hideaki Imanaka—Tokushima, Japan

Inhaled Anesthetic for Life-Threatening Bronchospasm: Is It Ready for Prime Time?
by Brian K Walsh and Michael Green—Dallas, Texas

Carbon Dioxide Entrainment During High-Frequency Oscillatory Ventilation: A Model Analysis
by Robert L Chatburn—Cleveland, Ohio
Mohamad F El-Khatib—Beirut, Lebanon