EDITORIALS

Health Care in America: An Error-Prone System in Need of a Fix
by Patrick J Dunn—Fullerton, California

ORIGINAL CONTRIBUTIONS

Missed Bronchodilator Medication Treatments in Respiratory Therapy: Frequency and Underlying Causes
by James K Stoller, Douglas K Orens, and Lucy Kester—Cleveland, Ohio

Assessing Need for Long-Term Oxygen Therapy: A Comparison of Conventional Evaluation and Measures of Ambulatory Oximetry Monitoring
by Kevin M Fussell, Dereje S Ayo, Paul Branca, Jeffrey T Rogers, Michael Rodriguez, and Richard W Light—Nashville, Tennessee

A Comparison of the OxyArm Oxygen Delivery Device and Standard Nasal Cannulae in Chronic Obstructive Pulmonary Disease Patients
by Timothy Dinesen—Toronto, Ontario, Canada
Lee McDonald, Sandy McDonald, and Donald DuVall—Barrie, Ontario, Canada

Performance Comparison of Two Oscillating Positive Expiratory Pressure Devices: Acapella Versus Flutter
by Teresa A Volsko, Juliann M DiFiore, and Robert L Chatburn—Cleveland, Ohio

SPECIAL ARTICLES

Development of an Affordable Data Collection, Reporting, and Analysis System
by William R Howard—Boston, Massachusetts

PFT CORNER

Diagnosis of a Space-Occupying Lesion of the Lung by Pulmonary Function Tests
by Suzanne Redden, Deborah A Hunton, and David A Kaminsky—Burlington, Vermont

BOOKS, FILMS, TAPES, & SOFTWARE

Breathing Disorders in Sleep (McNicholas WT, Phillipson EA) reviewed by William J DePaso—Seattle, Washington

Sleep Apnea: Pathogenesis, Diagnosis, and Treatment (Pack AI, editor) reviewed by Noel T Johnson—Edmonds, Washington

Clinical Management of Chronic Obstructive Pulmonary Disease (Similowski T, Whitelaw WA, Derenne J-P, editors) reviewed by Joshua O Benditt—Seattle, Washington

Lung Disorders Sourcebook (Matthews DD, editor) reviewed by Teresa A Volsko—Hudson, Ohio

Working in Health Care: What You Need to Know to Succeed (Drafke MW, editor) reviewed by Ehren Ngo—Loma Linda, California
Coming in March & April:

Proceedings from the 31st RESPIRATORY CARE Journal Conference on

Current Trends in Neonatal and Pediatric Respiratory Care

Guest Editors:
Carolyn M Kercsmar MD • Timothy R Myers RRT-NPS

Current Trends in Management of Pediatric Asthma
by Carolyn M Kercsmar MD

Systematic Review of the Management and Treatment of Respiratory Syncytial Virus
by Craig Patrick Black PhD RRT-NPS

Cystic Fibrosis: Current Trends in Respiratory Care
by Jeffrey S Wagener MD and Aree A Headley RRT

Respiratory Emergencies in Children
by Alexandre T Rotta MD and Budi Wiryawan MD

Update on Pediatric Acute Respiratory Distress Syndrome
by Michael R Anderson MD

Management of Respiratory Distress Syndrome: An Update
by Ricardo J Rodriguez MD

Neonatal Resuscitation
by Thomas E Wiswell MD

Extracorporeal Membrane Oxygenation for the Perinatal and Pediatric Patient
by Douglas R Hansell RRT

Diagnostics
by Stephanie D Davis MD

Pulse Oximetry in Infants and Children
by John W Salyer MBA RRT-NPS FAARC

Specialty Gases
by Timothy R Myers RRT-NPS

Invasive and Noninvasive Neonatal Mechanical Ventilation
by Steven M Donn MD and Sunil K Sinha MD PhD

Invasive and Noninvasive Pediatric Mechanical Ventilation
by Ira M Cheifetz MD FAARC
Respiratory Care. Review and Exam Preparation. Reviews and References (medical). Rheumatology. Safety Research. Safety, Risk, Reliability and Quality. Sensory Systems. Conferences and Proceedings. Trade Journals. 2019. 2018. 2017. 2016. 2015. Seminars in Fetal and Neonatal Medicine. journal. 1.594 Q1. 86. 67. 198. 3796. Pediatric Critical Care Medicine. journal. 1.207 Q1. 83. 370. 1168. 6286. Sherry is active in the respiratory care profession, where she has served in numerous leadership roles, including president of the Lambda Beta Society. During her nearly 40 years of experience in the field of neonatal and pediatric respiratory care, Sherry has maintained an unyielding commitment to provide the highest level of care to this patient population, serving as both an educator to respiratory therapy students and clinicians and as an advocate for obtaining advanced specialty credentials in this unique area of respiratory care practice. RESPIRATORY CARE Journal Conference specific to infants and children was held over a decade ago in Cancuán, Mexico in December 1990. 1,2. The proceedings were published in the June and July 1991 issues of RESPIRATORY CARE, months after the inception of the National Board for Respiratory Care’s (NBRC) Neonatal/Pediatric Respiratory Care. The specialty of neonatal and pediatric respiratory care appears to have come full-circle over the past 12 years, since those landmark events in 1991. This and the next issue of the Journal provide the proceedings from the 31st RESPIRATORY CARE Journal Conference, Current Trends in Neonatal and Pediatric Respiratory Care, held in August 2002 in Keystone, Colorado. These special issues of this conference were based on the theme “Promoting the New Innovative Thoughts in Neonatal & Child Care Research,” which included the following scientific tracks: Pediatrics, Pediatric Cardiology. We are glad to inform that all accepted abstracts for the conference have been published in Journal of Neonatal and Pediatric Medicine: Open Access, as a special issue. We are also obliged to various delegate experts, company representatives and other eminent personalities who supported the conference by facilitating active discussion forums. SURFACTANT THERAPY IN NEONATAL CARE [Review Article]. Avery and Mead in 1959, commented on the deficiency of a surface active material in the alveolar linings of the lungs of preterm babies with Respiratory Distress Syndrome (RDS). This surface active material was later termed as Surfactant, more. These children attended the Allergy and Clinical Immunology Division of the Pediatric Dept of Rome University, because they were affected by respiratory allergy, previously diagnosed with family history, SPTs and IgE antibodies. As controls there were 300 children comparable for age and sex with no respiratory illness recruited from our outpatient clinic.
Pediatric (PARDS) and neonatal (NARDS) acute respiratory distress syndrome have different age-specific characteristics and definitions. Trials on surfactant for ARDS in children and neonates have been performed well before the PARDS and NARDS definitions and yielded conflicting results. This is mainly due to heterogeneity in study design reflecting historic lack of pathobiology knowledge. Eight trials investigated the use of surfactant for ARDS in children and ten in neonates, respectively. There were improvements in oxygenation (7/8 trials in children, 7/10 in neonates) and mortality (3/8 trials in children, 1/10 in neonates) improved. Trials were heterogeneous for patients' characteristics, surfactant type and administration strategy. Respiratory care of infants and children incorporates approaches taken from adult practice. Important physiologic and age-related differences between adults and children require variations in the provision of respiratory care. This section focuses on neonatal and pediatric O2 therapy, bronchial hygiene, humidity and aerosol therapy, airway management, and resuscitation. Oxygen Therapy. Goals and Indications. RESPIRATORY CARE Journal Conference specific to infants and children was held over a decade ago in Cancun, Mexico in December 1990. The proceedings were published in the June and July 1991 issues of RESPIRATORY CARE, months after the inception of the National Board for Respiratory Care’s Neonatal/Pediatric Respiratory. The specialty of neonatal and pediatric respiratory care appears to have come full-circle over the past 12 years since those landmark events in 1991. This and the next issue of the Journal provide the proceedings from the 31st RESPIRATORY CARE Journal Conference, Current Trends in Neonatal and Pediatric Respiratory Care, held in August 2002 in Keystone, Colorado. These special issues of Respiratory Care are a monthly peer-reviewed medical journal published by the American Association of Respiratory Care. It was established in 1956 as Inhalation Therapy and obtained its current title in 1970. The journal is abstracted and indexed in Index Medicus, PubMed, and the Science Citation Index. The editor-in-chief is Dean R. Hess (Massachusetts General Hospital and Harvard Medical School).