Subject Index to Volume 51 (2006)

1-96 JAN 321-448 APR 689-800 JUL 1089-1200 OCT
97-208 FEB 449-560 MAY 801-944 AUG 1201-1376 NOV
209-320 MAR 561-688 JUN 945-1088 SEP 1377-1520 DEC

Abstracts

Acute respiratory distress syndrome (ARDS)
apparatus dead space effects on $P_{aCO_2}$ in lung-protective ventilation, 1140
open vs closed suctioning impact on gas exchange and hemodynamics, 497
PEEP level for oxygenation maintenance after lung re-recruitment, 1132

Adolescents
asthma in, learning needs and Internet use, 1441
book review
Asthma information for teens: health tips about managing asthma and related concerns (Bellenir K), 431

Aerosols and aerosol administration
continuous administration methods for methacholine challenge testing, 46
COPD problems, 158
dry powder inhalers, 164
metered-dose inhalers, 161
small-volume nebulizers, 168
dead space of face masks with holding chambers, 140
heliox delivery
albuterol nebulization for asthma exacerbations, 613
in children, 625
in mechanical ventilation, 634
high impact aerosol technology (editorial), 1228
infant aerosol holding chamber face masks (editorial), 123
jet nebulizer delivery in ventilated newborns, 1244
levalbuterol delivery, nonelectrostatic vs nonconducting valved holding chamber, 511
nebulized bronchodilator delivery, pediatric lung model, 56
nonelectrostatic materials in holding chambers, 503

Airflow obstruction
curvilinearity index, 40

Air pollution
book review
Air pollutants and the respiratory tract, 2nd ed (Foster WM, Costa DL), 544

Airway care and management
in amyotrophic lateral sclerosis, 878
book review
Imaging of the airways: functional and radiologic correlations (Naidich DP et al), 190
in lung transplantation, 396
in neuromuscular disease, 913
in pediatric neuromuscular disease, 886

Airway obstruction
chest physiotherapy with positive airway pressure, 1145
forced expiratory time and spirometric performance, 246
heliox use in children, 622

Albuterol
heliox-driven nebulization for asthma exacerbations, 613
hydrofluoroalkane, nonelectrostatic materials in holding chambers, 503
levalbuterol delivery, nonelectrostatic vs. nonconducting valved holding chamber, 511

Allergies
book reviews
Allergy and asthma in modern society: a scientific approach (Cameri R), 1268
Prevention of allergy and allergic asthma: World Allergy Organization project report and guidelines (Johansson SGO, Haaheta T), 430

Alpha-1 antitrypsin deficiency
Alpha-1 Foundation and, 526

Alpha-1 Foundation
formation, impact, and success factors, 526
American Association for Respiratory Care

**Open Forum abstracts–2006, 1271**

**Amyotrophic lateral sclerosis**
respiratory effects, 871, 1067

**Anemia**
in renal failure, 418

**Anesthesia and anesthetics**
transcutaneous and end-title capnometer evaluations, 1162

**Anoxia**
heliox use and risk of, 657

**Anthracosilicosis**
charcoal aspiration and (case report), 1251

**Appointments and schedules**
reminder calls and outpatient absenteeism, 36

**Arterial blood gases**
apparatus dead space effects on $P_{aCO_2}$ in lung-protective ventilation, 1140
blood-gas tensions with positive expiratory pressure in cystic fibrosis, 1154
pH in exhaled breath concentrates, monitoring in mechanical ventilation, 1125

**Asbestos**
rounded atelectasis with atypical computed tomography findings (case report), 761

**Aspiration**
charcoal (case report), 1251

**Asthma**
in adolescents, learning needs, 1441
book reviews
_ABC of asthma_, 5th ed (Rees J, Kanabar D), 1266
_Allergy and asthma in modern society: a scientific approach_ (Cameri R), 1268
_Asthma information for teens: health tips about managing asthma and related concerns_ (Bellenir K), 431
_Asthma in the workplace_, 3rd ed (Bernstein IL et al), 1269
_Pharmacotherapy of asthma_ (Li), 1267
_Prevention of allergy and allergic asthma: World Allergy Organization project report and guidelines_ (Johansson SGO, Haahvetl T), 430
educational seminar for Medicaid providers, 49
heliox-driven albuterol nebulization for exacerbations, 613
heliox use in children, 620
physician compliance with documentation of management protocols, 1432

**Atelectasis**
rounded atelectasis with atypical computed tomography findings (case report), 761

**B**

**Benchmarking**
normalizing data for, 145

**Billing systems**
normalizing benchmarking data, 145

**Bioterrorism**
book review
_Bioterrorism: a guide for hospital preparedness_ (Masci JR, Bass E), 300

**Blood gas analysis**
oscillating vs non-oscillating positive expiratory pressure in cystic fibrosis, 1154
specimen handling (editorial), 717
syringe material, storage time, and temperature effects on, 732
transcutaneous and end-title capnometer evaluations, 1162

**Blood gas monitoring**
forehead reflectance pulse oximetry vs digit sensor, 726

**Blood pressure**
management in acute brain injury, 361

**Body mass index**
noninvasive positive-pressure ventilation and (editorial), 121
noninvasive positive-pressure ventilation and weight gain in COPD, 126

**Body ventilators**
in neuromuscular disease, 897

**Body weight**
in cachectic COPD patients receiving NPPV, 126
respiratory failure and (editorial), 121

**Book reviews**
_ABC of asthma_, 5th ed (Rees J, Kanabar D), 1266
_Acute and chronic cough_ (Redington AE, Morice AH), 926
_Air pollutants and the respiratory tract_, 2nd ed (Foster WM, Costa DL), 544
_Allergy and asthma in modern society: a scientific approach_ (Cameri R), 1268
_Asthma information for teens: health tips about managing asthma and related concerns_ (Bellenir K), 431
_Asthma in the workplace_, 3rd ed (Bernstein IL et al), 1269
_Atlas of sleep medicine_ (Chokroverty S et al), 1476
_Bioterrorism: a guide for hospital preparedness_ (Masci JR, Bass E), 300
_Cardiopulmonary resuscitation_ (Ornato JP, Peberdy MA), 76
_Chest medicine: essentials of pulmonary and critical care medicine_, 5th ed (George RB et al), 665
_Chronic obstructive pulmonary disease: cellular and molecular mechanisms_ (Barnes PJ), 545
<table>
<thead>
<tr>
<th>Title</th>
<th>Edition</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical assessment in respiratory care, 5th ed (Wilkins RL et al)</td>
<td></td>
<td>426</td>
</tr>
<tr>
<td>Clinicians’ guide to chronic obstructive pulmonary disease (Howes TQ)</td>
<td></td>
<td>1072</td>
</tr>
<tr>
<td>Color atlas and text of pulmonary pathology (Cagle PT)</td>
<td></td>
<td>79</td>
</tr>
<tr>
<td>Communicating in the health and social sciences (Higgs J et al)</td>
<td></td>
<td>427</td>
</tr>
<tr>
<td>Current essentials of critical care (Sue DY, Vintch JRE)</td>
<td></td>
<td>1074</td>
</tr>
<tr>
<td>Cystic fibrosis in the 21st century (Bush A et al)</td>
<td></td>
<td>930</td>
</tr>
<tr>
<td>Dyspnea: mechanisms, measurement, and management</td>
<td>2nd ed</td>
<td>299</td>
</tr>
<tr>
<td>Dyspnoea in advanced disease: a guide to clinical management</td>
<td>(Booth S, Dudgeon D)</td>
<td>1264</td>
</tr>
<tr>
<td>Entry level respiratory therapist exam guide, 4th ed (Sills JR)</td>
<td></td>
<td>770</td>
</tr>
<tr>
<td>Evidence-based respiratory medicine (Gibson PG)</td>
<td></td>
<td>1186</td>
</tr>
<tr>
<td>Functional imaging of the chest (Kauczor H-U)</td>
<td></td>
<td>190</td>
</tr>
<tr>
<td>Functional lung imaging (Lipson DA, van Beek EJR)</td>
<td></td>
<td>1077</td>
</tr>
<tr>
<td>General thoracic surgery, 6th ed (Shields TW et al)</td>
<td></td>
<td>79</td>
</tr>
<tr>
<td>Hospital medicine, 2nd ed (Wachter RM et al)</td>
<td></td>
<td>1480</td>
</tr>
<tr>
<td>Imaging of the airways: functional and radiologic correlations</td>
<td>(Naidich DP et al)</td>
<td>190</td>
</tr>
<tr>
<td>Infection control in the intensive care unit, 2nd ed (van Saene HKF et al)</td>
<td>670</td>
<td></td>
</tr>
<tr>
<td>Inhalation toxicology, 2nd ed (Salem H, Katz SA)</td>
<td></td>
<td>1185</td>
</tr>
<tr>
<td>Interpreting chest X-rays: illustrated with 100 cases (Eng P, Cheah F-K)</td>
<td>188</td>
<td></td>
</tr>
<tr>
<td>Interstitial lung diseases: a state-of-the-art series (Oliveri D)</td>
<td></td>
<td>1265</td>
</tr>
<tr>
<td>Lung cancer: principles and practice, 3rd ed (Pass HI et al)</td>
<td></td>
<td>774</td>
</tr>
<tr>
<td>Lung injury: mechanisms, pathophysiology, and therapy (Notter RH et al)</td>
<td>1183</td>
<td></td>
</tr>
<tr>
<td>Lung surfactant function and disorder (Nag K)</td>
<td></td>
<td>930</td>
</tr>
<tr>
<td>Manual of clinical problems in pulmonary medicine, 6th ed (Bordow RA et al)</td>
<td>668</td>
<td></td>
</tr>
<tr>
<td>Manual of intensive care medicine, 4th ed (Irwin RS, Rippe JM)</td>
<td></td>
<td>1075</td>
</tr>
<tr>
<td>Measurement and evaluation in human performance, 3rd ed (Morrow JR Jr et al)</td>
<td>77</td>
<td></td>
</tr>
<tr>
<td>Mechanical ventilation (Slutsky AS, Brochard L)</td>
<td></td>
<td>672</td>
</tr>
<tr>
<td>Medical terminology simplified: a programmed learning approach by body systems, 3rd ed (Glylys BA, Masters RM)</td>
<td>192</td>
<td></td>
</tr>
<tr>
<td>Medical terminology systems: a body systems approach, 5th ed (Glylys BA, Wedding ME)</td>
<td>192</td>
<td></td>
</tr>
<tr>
<td>The microbe-host interface in respiratory tract infections (Kimpen JLL, Ramilo O)</td>
<td>302</td>
<td></td>
</tr>
<tr>
<td>New perspectives in monitoring lung inflammation: analysis of exhaled breath condensate (Montuschi P)</td>
<td>302</td>
<td></td>
</tr>
<tr>
<td>100 questions &amp; answers about chronic obstructive pulmonary disease (Quinn CE)</td>
<td>1073</td>
<td></td>
</tr>
<tr>
<td>Oxford handbook of palliative care (Watson M et al)</td>
<td></td>
<td>429</td>
</tr>
<tr>
<td>Oxford handbook of respiratory medicine (Chapman S et al)</td>
<td></td>
<td>1185</td>
</tr>
<tr>
<td>Paediatric pulmonary function testing (Hammer J, Eber E)</td>
<td></td>
<td>77</td>
</tr>
<tr>
<td>Pharmacology and pathophysiology of the control of breathing (Ward DS et al)</td>
<td>925</td>
<td></td>
</tr>
<tr>
<td>Pharmacotherapy of asthma (Li)</td>
<td></td>
<td>1267</td>
</tr>
<tr>
<td>Physiologic basis of respiratory disease (Hamid Q et al)</td>
<td></td>
<td>540</td>
</tr>
<tr>
<td>Practical pulmonary pathology: a diagnostic approach (Leslie KO, Wick MR)</td>
<td>541</td>
<td></td>
</tr>
<tr>
<td>Prevention of allergy and allergic asthma: World Allergy Organization project report and guidelines (Johansson SGO, Haahleta T)</td>
<td>430</td>
<td></td>
</tr>
<tr>
<td>Principles and practice of sleep medicine, 4th ed (Kryer MH et al)</td>
<td></td>
<td>1475</td>
</tr>
<tr>
<td>Pulmonary pathophysiology, 2nd ed (Ali J et al)</td>
<td></td>
<td>541</td>
</tr>
<tr>
<td>Pulmonary rehabilitation (Donner CF et al)</td>
<td></td>
<td>1479</td>
</tr>
<tr>
<td>Q&amp;A color review of respiratory medicine, 2nd ed (Sapiro SG et al)</td>
<td></td>
<td>669</td>
</tr>
<tr>
<td>Q&amp;A color review of thoracic imaging (Copley SJ et al)</td>
<td></td>
<td>189</td>
</tr>
<tr>
<td>Qualitative research methods, 2nd ed (Liamputtong P, Ezzy D)</td>
<td></td>
<td>773</td>
</tr>
<tr>
<td>Respiratory care exam review: review for the entry level and advanced exams, 2nd ed (Persing G)</td>
<td>770</td>
<td></td>
</tr>
<tr>
<td>Respiratory genetics (Silverman EK et al)</td>
<td></td>
<td>1478</td>
</tr>
<tr>
<td>Respiratory physiology: a clinical approach (Schwartzstein RM, Parker MJ)</td>
<td>1182</td>
<td></td>
</tr>
<tr>
<td>Respiratory physiology: the essentials, 7th ed (West JB)</td>
<td></td>
<td>1181</td>
</tr>
<tr>
<td>The respiratory therapist’s legal answer book (DeWitt AL)</td>
<td></td>
<td>772</td>
</tr>
<tr>
<td>SARS: a case study in emerging infections (McLean AR et al)</td>
<td></td>
<td>300</td>
</tr>
<tr>
<td>Severe acute respiratory syndrome (Peiris M et al)</td>
<td></td>
<td>775</td>
</tr>
<tr>
<td>Severe pneumonia (Niederman MS)</td>
<td></td>
<td>927</td>
</tr>
<tr>
<td>Sleep medicine: a guide to sleep and its disorders, 2nd ed (Shneerson JM)</td>
<td>929</td>
<td></td>
</tr>
<tr>
<td>Smoking cessation, 2nd ed (West R, Shiffman S)</td>
<td></td>
<td>432</td>
</tr>
<tr>
<td>Surgical management of sleep apnea and snoring (Terries DJ, Goode RL)</td>
<td>1477</td>
<td></td>
</tr>
<tr>
<td>Synopsis of diseases of the chest, 3rd ed (Fraser RS et al)</td>
<td></td>
<td>667</td>
</tr>
<tr>
<td>Teaching atlas of chest imaging, (Parker MS et al)</td>
<td></td>
<td>1076</td>
</tr>
<tr>
<td>Thurlbeck’s pathology of the lung, 3rd ed (Churg AM et al)</td>
<td></td>
<td>543</td>
</tr>
</tbody>
</table>
Write it down: guidance for preparing effective and compliant documentation, 2nd ed (Gough J), 771

Brain
- physiology, 358

Brain injury, acute
- respiratory care, 357

Breathing. See Respiration

Breathing, glossopharyngeal
- in noninvasive positive-pressure ventilation, 907

Breath tests
- exhaled breath concentrates in mechanical ventilation, 1118, 1125

Bronchiolitis
- heliox use in children, 623

Bronchiolitis obliterans
- in lung transplantation, 397

Bronchodilators, bronchodilatation and bronchodilator administration
- COPD clinical practice guidelines, 281
- corticosteroids for COPD, 289
- nebulized bronchodilator delivery, pediatric, 56

Bronchopulmonary sequestration
- teaching case, 661

Bullectomy
- for chronic obstructive pulmonary disease, 174

Cachexia. See Malnutrition

Calibration
- long-term stability of portable spirometers in COPD, 1167

Capnography and capnometry
- noninvasive pulse CO-oximeter for carboxyhemoglobin, 758
- transcutaneous and end-tidal capnometry evaluations, 1162

Carbon dioxide
- apparatus dead space effects $P_{aCO_2}$ in lung-protective ventilation, 1140
- transcutaneous and end-tidal capnometry evaluations, 1162

Carboxyhemoglobin
- noninvasive pulse CO-oximeter for, 758

Cardiopulmonary resuscitation (CPR). See Resuscitation

Case reports
- A 45-year-old man with a lung mass and history of charcoal aspiration, 1251
- hemothorax in beta-thalassemia, from rupture of extramedullary hematopoietic mass, 272
- inhaled nitric oxide for acute right-ventricular dysfunction after pneumonectomy, 1172
- progressive pulmonary infiltrates in ovarian cancer, 515
- rounded atelectasis with atypical computed tomography findings, 761

Celiac disease
- Cystic fibrosis and celiac disease in a family: adding a fourth reminder (letter), 768

Central nervous system
- respiratory physiology, 830

Cerebral blood flow
- physiology, 358

Charcoal
- A 45-year-old man with a lung mass and history of charcoal aspiration (case report), 1251

Chest imaging
- book reviews
  - Functional imaging of the chest (Kauczor HU), 190
  - Imaging of the airways: functional and radiologic correlations (Naidich DP et al), 190
  - Interpreting chest X-rays: illustrated with 100 cases (Eng P, Cheah FK), 188
  - Q&A color review of thoracic imaging (Copley SJ et al), 189
  - Teaching atlas of chest imaging, (Parker MS et al), 1076

Chest pain
- bronchopulmonary sequestration, teaching case, 661

Chest physical therapy
- blood-gas tensions with positive expiratory pressure in cystic fibrosis, 1154
- with positive airway pressure, 1145

Cheyne-Stokes respiration
- in congestive heart failure, 408

Children
- dead space of face masks with holding chambers for, 140
- forehead reflectance pulse oximetry vs digit sensor, 726
- heliox use in, 619
- nebulized bronchodilator delivery, 56
- with neuromuscular disease, airway clearance, 886
- respiratory-technology-dependent, hospital discharge of, 744

Chronic obstructive pulmonary disease (COPD)
- aerosol therapy problems in, 158
- dry power inhalers, 164
- metered-dose inhalers, 161
- small-volume nebulizers, 168
- ambulatory oximetry in patients with hypoxemia, 1416
- book reviews
  - Chronic obstructive pulmonary disease: cellular and molecular mechanisms (Barnes PJ), 545
  - Clinicians’ guide to chronic obstructive pulmonary disease (Howes TQ), 1072
  - 100 questions & answers about chronic obstructive pulmonary disease (Quinn CE), 1073
bullous emphysema in, 532
cachexia and chronic respiratory failure (editorial), 121
clinical practice guidelines, 277
confirmatory spirometry and diagnostic discrepancy, 1120
corticosteroid therapy, 289
forced expiratory time and spirometric performance, 246
heliox and NPPV in exacerbations, 640
heliox for, 633
long-term oxygen therapy, patient adherence monitor, 266
long-term stability of portable spirometers, 1167
muscle dysfunction and, 840, 1068
spirometry diagnosis (editorial), 1116
spirometry interpretation standards (editorial), 719
surgical options, 173
thixotropy conditioning of inspiratory muscles and chest wall volume, 750
weight gain and NPPV in cachectic patients, 126
Circulation
pulmonary, normal physiology, 369
Communication
book review
Communicating in the health and social sciences (Higgs J et al), 427
Composite physiologic index
idiopathic pulmonary fibrosis with emphysema, 257
Computed tomography. See Tomography, emission computed
Condensimetry
exhaled blood concentrate pH monitoring in mechanical ventilation, 1125
Conference proceedings
neuromuscular diseases, 828, 984
acute respiratory failure from, 1016
airway clearance management, 913
amyotrophic lateral sclerosis, 871
in children, 885
foreword, 828
ICU-acquired muscle weakness, 1042
muscle dysfunction and COPD, 840
noninvasive ventilation, 896
noninvasive ventilation, full-time, 1005
physiology and pathophysiology, 829
spinal cord injury, 853
summary, 1065
tracheostomy care, chronic, 984
ventilator-induced diaphragmatic dysfunction, 1054
weakness in ICU patients, 1024
non-respiratory conditions, respiratory care (New Horizons symposium)
acute brain injury, 357
congestive heart failure, 403
foreword, 355
kidney failure, 413
lung transplantation, 392
pulmonary arterial hypertension, 368
pulmonary fibrosis, idiopathic, 382
Confidentiality
Internet and privacy of medical information, 183
Connective tissue disorders
pulmonary hypertension and, 373
Consumer health information
adolescents with asthma, 1441
Consumer rights
Internet and privacy of medical information, 183
Continuous positive airway pressure (CPAP)
chest physiotherapy with, 1145
for congestive heart failure, 409
Corticosteroids. See Steroids
Cost-effectiveness and cost issues
oxygen protocol evaluation in long-term care, 1424
Cough
airway clearance in neuromuscular disease, 913
augmentation therapy for, 917
book review
Acute and chronic cough (Redington AE, Morice AH), 926
chest physiotherapy with positive airway pressure, 1145
neuromuscular impairment of, 915
physiology and mechanics, 914
support in NPPV, 1008
Critical care. See Intensive care
Croup. See Laryngeal diseases and disorders
Customer satisfaction
hospital discharge of respiratory-technology-dependent children, discharge coordinator role and, 744
Cystic fibrosis
blood-gas tensions with positive expiratory pressure, 1154
book review
Cystic fibrosis in the 21st century (Bush A et al), 930
chest physiotherapy with positive airway pressure, 1145
Cystic fibrosis and celiac disease in a family: adding a fourth reminder (letter), 768

D

Data collection
normalizing procedure for benchmarking, 145
Dead space, ventilatory. See Respiratory dead space
Dexmedetomidine
for ICU sedation and ventilator weaning, 489, 492
Diaphragm
ventilator-induced dysfunction of, 1054, 1070
Diastolic dysfunction
in congestive heart failure, 404
Disaster preparedness
book review
*Bioterrorism: a guide for hospital preparedness* (Masci JR, Bass E), 300

Disease management
respiratory therapist role (editorial), 1400

Documentation
physician compliance with asthma management protocols documentation, 1432

Drug delivery systems
dead space of face masks with holding chambers, 140

Drugs and drug therapy
book review
*Pharmacotherapy of asthma* (Li), 1267

Dry powder inhalers
usage problems in COPD, 158

Dyspnea
book reviews
*Dyspnea: mechanisms, measurement, and management*, 2nd ed (Mahler DA, O’Donnell DE), 299
*Dyspnoea in advanced disease: a guide to clinical management* (Booth S, Dudgeon D), 1264
in spinal cord injury, 857

Echocardiography
confirmatory use for congestive heart failure diagnosis, 1120

Editorials
Cachexia and chronic respiratory failure: lessons from ventilatory support, 121
Continuous exhaled breath condensate measurements in ventilated patients, 1118
Disease management as an evolving role for respiratory therapists, 1400
High impact aerosol technology offers higher efficiency, but is not ready for prime time, 1228
Infant aerosol holding chamber face masks: not all are born equal! 123
Interpretation of spirometry: we can do better than the GOLD standard, 719
Novel oxygen-concentrator-based equipment: take a test drive! 25
NPPV in acute respiratory failure: is it time to reconsider where it may be applied? 1226
Of time and temperature, plastic and glass: specimen handling in the blood-gas laboratory, 717
On the power and risks of the percent of predicted, 722
Problems with forehead reflectance pulse oximetry, 715
Respiratory symptoms: a reason to obtain spirometry, 1116
Sedation in the intensive care unit: a call for evidence, 489

Toward solving the critical care manpower crisis, 1224

Education, continuing
asthma educational seminar for Medicaid providers, 49
CRCE through the Journal—2006, 778; answer key, 1192

Electromyography
for clinical assessment in ICU, 1030

Emphysema
bullous vs bullous lung disease, 532
idiopathic pulmonary fibrosis with, 257
nocturnal oxygenation, pulsed-dose oxygen-conserving device vs continuous flow, 252

Endocarditis
tricuspid, with pulmonary emboli, 1471

Eosinophilia
chronic eosinophilic pneumonia, symptoms and radiographic findings, 764

Equipment and supplies
continuous pH condensimetry system, 1125
Heliox therapy and devices cleared by FDA (letter), 1261
long-term oxygen therapy, patient adherence monitor, 266
NPPV in neuromuscular disease, 896

Equipment design
More on novel oxygen-concentrator-based equipment (part 1) (letter), 535
More on novel oxygen-concentrator-based equipment (part 2) (letter), 537
oxygen-concentrator-based equipment, 25

Evaluation studies
oxygen protocol evaluation in long-term care, 1424

Examination and quizzes
book reviews
*Entry level respiratory therapist exam guide*, 4th ed (Sills JR), 770
*Respiratory care exam review: review for the entry level and advance exams*, 2nd ed (Persing G), 770

Exercise
muscle dysfunction and exercise tolerance in COPD, 842

Exhaled breath condensates. See Breath tests

Extubation
dexmedetomidine and, 489, 492
minute ventilation recovery time and, 133
tracheostomy in neuromuscular disease, 998

FDA. See U.S. Food and Drug Administration (FDA)

Feedback
respiratory control and, 832
Fever
in acute brain injury, 362
Flow-volume curve
airflow obstruction curvilinearity index, 40
Fluids and secretions
airway clearance
in amyotrophic lateral sclerosis, 878
management in neuromuscular disease, 913, 1068
in pediatric neuromuscular disease, 886
secretion-extraction maneuvers in children, 887
Forced expiratory time
changes in pulmonary function testing, 246
Forced expiratory volume
airflow obstruction curvilinearity index, 40
spirometry interpretation, fixed percentage method vs
lower confidence limits defining normality limits, 737
spirometry interpretation standards (editorial), 719
Forced vital capacity
spirometric performance changes in obstructive lung dis-
ease, 246

G
Gas exchange
open vs closed suctioning impact, in ARDS, 497
Gastrointestinal tract
selective decontamination and ventilator-associated
pneumonia (letters and response), 67, 72
Genetic disorders
book review
Respiratory genetics (Silverman EK et al), 1478
Goodpasture’s syndrome
respiratory complications of, 416
Graft rejection
in lung transplantation, 395
Guidelines, recommendations, and statements
for chronic obstructive pulmonary disease, 277
long-term oxygen therapy recommendations, 6th con-
sensus conference, 519
respiratory symbols and terminology, nomenclature
maintenance, 1458
standards for interpretation of spirometry (editorial), 719
Guillain-Barré syndrome
acute respiratory failure in, 1016
mechanical ventilation in, 1403

H
Health Information Portability and Accountability Act
(HIPAA)
Internet and privacy of medical information, 183
Heart defects, congenital
pulmonary hypertension and, 372
Heart failure, congestive
confirmatory echocardiography and diagnostic discrep-
ancy, 1120
pathophysiology of, 404
pulmonary complications of, 408
respiratory care for, 403
Helium
therapeutic use, history and physics, 608
Helium-oxygen gas mixture
albuterol nebulization for asthma exacerbations, 613
delivery systems in children, 627
devices used with, 652
Heliox should be available in every community hospital
(letter), 1261
Heliox therapy and devices cleared by FDA (letter and
response), 1261
heliox therapy symposium, foreword, 607
history and physics of, 608
in mechanical ventilation, 632
noninvasive positive-pressure ventilation in COPD and,
640
opportunities and risks in clinical practice, 651
respiratory care applications, 609
risks of using, 657
use in children, 619
ventilator performance with, 635
Hematopoiesis
extramedullary, hemotorax in beta-thalassemia from
(case report), 272
Hemodialysis
hypoxemia in, 419
Hemodynamics, pulmonary
open vs closed suctioning impact on, in ARDS, 497
Hemothorax
in beta-thalassemia, from extramedullary hematopoietic
rupture (case report), 272
High-frequency oscillation
heliox in mechanical ventilation, 634
History of medicine
heliox therapy, 608
HIV infections
pulmonary hypertension and, 372
Home care
discharge coordinator role for respiratory-technology-
dependent children, 744
nocturnal oxygenation, pulsed-dose oxygen-conserving
device vs continuous flow, 252
Hospital discharge
of respiratory-technology-dependent children, discharge
coordinator role, 744
Hospital medicine
book review
Hospital medicine, 2nd ed (Wachter RM et al), 1480
Hospitals
Heliox should be available in every community hospital (letter), 1261

Humidifiers and humidification
for noninvasive positive-pressure ventilation, 906

Hydrofluoroalkane propellants
levalbuterol delivery with nonelectrostatic vs nonconducting valved holding chamber, 511
nonelectrostatic materials in holding chambers and albuterol delivery, 503

Hyperbaric oxygenation
book review
The ECHM collection, volume 1: European Committee for Hyperbaric Medicine. Consensus conferences and workshops, 1994–1999 (Marroni A et al), 81

Hypercapnia and hypercarbia
apparatus dead space effects on $P_{\text{aCO}_2}$, 1140

Hyperventilation
in acute brain injury, 361

Hypothermia
in acute brain injury, 362
heliox use and risk of, 659

Hypoxemia and hypoxia
ambulatory oximetry in COPD, 1416
hemodialysis-related, 419

I

Infants
aerosol holding chamber face masks (editorial), 123

Infections and infection control
book review
Infection control in the intensive care unit, 2nd ed (van Saene HKF, Silvestri L), 670

Information disclosure
Internet and privacy of medical information, 183

Insufflation-exsufflation, mechanical
for secretion clearance in neuromuscular disorders, 919

Insulin
for ICU-acquired muscle weakness, 1046, 1048

Intensive care
book reviews
Current essentials of critical care (Sue DY, Vintch JRE), 1074
Infection control in the intensive care unit, 2nd ed (van Saene HKF, Silvestri L), 670
Manual of intensive care medicine, 4th ed (Irwin RS, Rippe JM), 1075
jet nebulizer delivery of aerosols in ventilated newborns, 1244
Toward solving the critical care manpower crisis (editorial), 1224

Intensive care units (ICU)
dexmedetomidine and ventilator weaning in, 492
ICU-acquired muscle weakness, 1042, 1069
neuromuscular weakness, 1024, 1069
sedation in (editorial), 489
time to wean after tracheotomy, 1408
tracheotomy management in, models for, 1230

Internet
adolescents with asthma, 1441
privacy and medical information, 183
Web site review
Zap asthma online simulation, 305

Interstitial lung disease
book review
Interstitial lung diseases: a state-of-the-art series (Oliveri D), 1265

K

Kidney failure
lung function in, 414
respiratory considerations, 413

L

Laryngeal diseases and disorders
heliox use for croup, 623

Letters to the editor
Cystic fibrosis and celiac disease in a family: adding a fourth reminder, 768
Heliox should be available in every community hospital, 1261
Heliox therapy and devices cleared by the FDA, 1261
Maintaining an “oral tradition”: specific equipment requirements for mouthpiece ventilation instead of tracheotomy for neuromuscular disease, 297
More on novel oxygen-concentrator-based equipment, 535, 537
Qualitative studies to explore barriers to spirometry use: a breath of fresh air? 768
Selective decontamination of the digestive tract and ventilator-associated pneumonia, 67, 72

Liability, legal
book review
The respiratory therapist’s legal answer book (DeWitt AL), 772

Liver diseases and disorders
pulmonary hypertension and, 372

Long-term care
oxygen protocol evaluation in long-term care, 1424

Lung diseases and disorders
book reviews
Chest medicine: essentials of pulmonary and critical care medicine, 5th ed (George RB et al), 665
Color atlas and text of pulmonary pathology (Cagle PT), 79
Functional lung imaging (Lipson DA, van Beek EJR), 1077
Lung cancer: principles and practice, 3rd ed (Pass HI et al), 774
Manual of clinical problems in pulmonary medicine, 6th ed (Bordow RA et al), 668
New perspectives in monitoring lung inflammation: analysis of exhaled breath condensate (Montuschi P), 302
Practical pulmonary pathology: a diagnostic approach (Leslie KO, Wick MR), 541
Pulmonary pathophysiology, 2nd ed (Ali J et al), 541
Thurlbeck’s pathology of the lung, 3rd ed (Churg AM et al), 543
bullous lung disease vs bullous emphysema, 532
A 45-year-old man with a lung mass and history of charcoal aspiration (case report), 1251
kidney function in, 414

Lung injury
book review

Lung injury: mechanisms, pathophysiology, and therapy (Notter RH et al), 1183
PEEP level for oxygenation maintenance after lung recruitment, 1132
radiation pneumonitis, 1255

Lung surfactant
book review

Lung surfactant function and disorder (Nag K), 930

Lung transplantation
for COPD, 178
postoperative complications, 395
respiratory care in, 392

Lung volume
surgical reduction for COPD, 175
thixotropy conditioning of inspiratory muscles in COPD, 750

Lupus erythematosus, systemic
respiratory complications, 416

M

Malnutrition
 cachexia and chronic respiratory failure (editorial), 121
weight gain and NPPV in COPD, 126

Measurement methods
book review

Measurement and evaluation in human performance, 3rd ed (Morrow JR Jr et al), 77

Mechanical ventilation
for amyotrophic lateral sclerosis, 877
apparatus dead space effects on P_{a\text{CO}_2}, 1140

book review
Mechanical ventilation (Slutsky AS, Brochard L), 672
in children with neuromuscular diseases, 888
diaphragmatic dysfunction, 1054, 1070
exhaled breath concentrates, 1118, 1125
in Guillain-Barré syndrome, 1403
heliox and NPPV in COPD exacerbations, 640
heliox during, 632
high impact aerosol technology (editorial), 1228
hospital discharge of children, discharge coordinator role, 744
jet nebulizer delivery of aerosols in ventilated newborns, 1244
kidney damage from, 419
lung-protective
in acute brain injury, 363
open vs closed suctioning in ARDS, 497
minute ventilation recovery time measurement, 133
NPPV in acute respiratory failure (editorial), 1226
PEEP level for oxygenation maintenance after lung recruitment, 1132
predictors of need, 1018
in spinal cord injury, 864
tracheostomy in neuromuscular disease, 984
tracheotomy management in ICU, 1230

Medicaid
asthma educational seminar for providers, 49

Medical instrumentation
transcutaneous and end-title capnometer evaluations, 1162

Medical terminology
book reviews

Medical terminology simplified: a programmed learning approach by body systems, 3rd ed (Gylys BA, Masters RM), 192
Medical terminology systems: a body systems approach, 5th ed (Gylys BA, Wedding ME), 192
pressure gradient symbols and equations in breathing mechanics, comparison of, 1450
respiratory symbols and terminology, nomenclature maintenance, 1458

Metered dose inhalers
dead space of face masks with holding chambers, 140
infant aerosol holding chamber face masks (editorial), 123
levalbuterol delivery with nonelectrostatic vs nonconducting valved holding chamber, 511
usage problems in COPD, 158

Methacholine
challenge tests, conflicting results in, 62
continuous aerosol administration methods and technician exposure to, 46

Minute ventilation recovery time
measurement methods, 133
Models
pediatric lung, for nebulized bronchodilator delivery, 56
respiratory symbols and terminology, 1458

Monitoring, ambulatory
oximetry in COPD patients with hypoxemia, 1416
pulse oximeters, postoperative, 29

Mucociliary clearance
chest physiotherapy with positive airway pressure, 1145

Mucus
mobilization devices, 888

Muscles, skeletal
chronic obstructive pulmonary disease and, 840

Muscular atrophy
mechanical ventilation and, 1055

Myasthenia gravis
acute respiratory failure in, 1016

Nebulizers and vaporizers
bronchodilator delivery, pediatric lung model, 56
heliox delivery in mechanical ventilation, 634
heliox-driven albuterol nebulization for asthma exacerbations, 613
jet nebulizer delivery of aerosols in ventilated newborns, 1244
small-volume, usage problems in COPD, 168

Needs assessment
adolescents with asthma, learning needs, 1441

Neonatal diseases and disorders
High impact aerosol technology (editorial), 1228
jet nebulizer delivery of aerosols in ventilated newborns, 1244

Neoplasm metastasis
ovarian, organizing pneumonia in (case report), 515

Neuromuscular disorders
acute respiratory failure caused by, 1016, 1069
affecting respiratory system, 833
airway clearance management, 913, 1068
chronic obstructive pulmonary disease and, 840, 1068
chronic tracheostomy care, 984, 1069
clinical assessment in ICU, 1026
conference proceedings, 828, 984
equipment requirements for mouthpiece ventilation (letter), 297
ICU-acquired muscle weakness, 1042, 1069
neuropathic weakness from, 1033
noninvasive ventilation for, 896, 1005, 1068
pathophysiology, 829, 1066
respiratory issues in children, 885, 1067
transmission disorders, 1036
ventilator-induced diaphragmatic dysfunction, 1054, 1070
weakness in ICU patients, 1024, 1069

New Horizons Symposium. See Conference proceedings

Nitric oxide
inhaled, for acute right-ventricular dysfunction after extrapleural pneumonectomy (case report), 1172

Nomenclature. See Medical terminology

Noninvasive positive-pressure ventilation (NPPV)
for acute respiratory failure, 1019, 1226, 1237
for amyotrophic lateral sclerosis, 875, 1067
body mass index and, 121
chest physiotherapy with positive airway pressure, 1145
for congestive heart failure, 409
equipment requirements for mouthpiece ventilation (letter), 297
heliox and, 633, 640
interfaces for, 898
in neuromuscular disorders continuous, 1005, 1068
equipment and applications, 896
ventilators, 903
weight gain in cachectic COPD patients, 126
in young children, 889

Nosocomial diseases
ICU-acquired muscle weakness, 1042

Nurse practitioners
tracheotomy management in ICU, 1230

Nursing homes
oxygen protocol evaluation in long-term care, 1424

Occupational exposure
book review
Asthma in the workplace, 3rd ed (Bernstein IL et al), 1269
rounded atelectasis with atypical computed tomography (case report), 761
of technicians in methacholine challenge test, 46

Open Forum
abstracts—2006, 1271

Outcome assessment
mechanical ventilation in Guillain-Barré syndrome, 1403

Outpatients and outpatient care
ambulatory oximetry in COPD patients with hypoxemia, 1416
appointment-reminder calls and patient absenteeism, 36

Ovarian cancer
organizing pneumonia in (case report), 515

Oximeters and oximetry
ambulatory monitoring in COPD with hypoxemia, 1416
forehead reflectance pulse oximetry, problems with (editorial), 715
forehead reflectance pulse oximetry vs digit sensor in pediatric patients, 726
Peripheral nervous system
respiratory physiology and, 831

Personnel
Toward solving the critical care manpower crisis (editorial), 1224

PFT Corner
Conflict ing methacholine challenge tests, 62

pH. See Arterial blood gases

Physicians
compliance with asthma management protocols documentation, 1432

Plastics
blood-gas laboratory specimen handling (editorial), 717
syringe material, storage time, and temperature effects on blood-gas analysis, 732

Plethysmography
thixotropy conditioning of inspiratory muscles and chest wall volume in COPD, 750

Pleuritis
fibrinous, in kidney failure, 417

Pneumonec tomy
e xtrapleural, inhaled nitric oxide for acute right-ventricular dysfunction following (case report), 1172

Pneumonia
book review
Severe pneumonia (Niederman MS), 927
chronic eosinophilic, symptoms and radiographic findings, 764
in lung transplantation, 398
organizing, in ovarian cancer metastasis (case report), 515
radiation pneumonitis, 1255
ventilator-associated mechanical ventilation in Guillain-Barré syndrome, 1403
selective decontamination of digestive tract and ventilator-associated pneumonia (letters and response), 67, 72

Polyneuropathies
critical illness, 1069
differential diagnosis, 1033
ICU-acquired, 1042
neuromuscular weakness in ICU patients, 1024

Positive end-expiratory pressure (PEEP)
in acute brain injury, 363
oxygenation maintenance after lung recruitment, 1132

Positive expiratory pressure
chest physiotherapy with positive airway pressure, 1145
oscillating vs non-oscillating, blood-gas tensions in cystic fibrosis and, 1154

Postoperative care
in lung transplantation, 394
pulse oximeters for postoperative ambulation, 29

in long-term oxygen therapy, 266
noninvasive pulse CO-oximeter for carboxyhemoglobin, 758
pulse oximeters for postoperative ambulation, 29

Oxygen administration and therapy
COPD clinical practice guidelines, 282
heliox therapy and devices cleared by FDA (letter), 1261
long-term consensus conference recommendations, 519
patient adherence monitor, 266
nocturnal, pulsed-dose oxygen-conserving device vs continuous flow, 252
novel oxygen-concentrator-based equipment (letter), 535, 537
oxygen-concentrator-based equipment, 25
oxygen protocol evaluation in long-term care, 1424
PEEP level for oxygenation maintenance after lung recruitment, 1132

Oxygen transport, physiologic
in brain, 359

Palliative care
book review
Oxford handbook of palliative care (Watson M et al), 429

Particle size
nonelectrostatic materials in holding chambers, 503

Pathology and pathophysiology
book review
Color atlas and text of pulmonary pathology (Cagle PT), 79

Patient advocacy
Alpha-1 Foundation, review of, 526

Patient assessment
book review
Clinical assessment in respiratory care, 5th ed (Wilkins RL et al), 426
in congestive heart failure, 406

Patient compliance
appointment-reminder calls and outpatient absenteeism, 36
long-term oxygen therapy adherence monitor, 266

Patient education
adolescents with asthma, 1441
asthma educational seminar for Medicaid providers, 49

Peak expiratory flow
physician compliance with asthma management protocols documentation, 1432

Pericardial effusion
in renal failure, 416
Postoperative complications
acute right-ventricular dysfunction following extrapleural pneumonectomy (case report), 1172
in lung transplantation, 395

Pressure
published gradient symbols and equations in breathing mechanics, comparison of, 1450

Privacy
Internet policies and medical information, 183

Protocols
oxygen protocol evaluation in long-term care, 1424
physician compliance with asthma management protocols documentation, 1432

Pulmonary circulation
normal physiology, 369

Pulmonary edema
in renal failure, 416

Pulmonary embolism
travel as risk factor, 1177
tricuspid endocarditis with, 1471

Pulmonary fibrosis
idiopathic
diagnosis and management of, 382
emphysema complicating, 257
epidemiology of, 383
nocturnal oxygenation, pulsed-dose oxygen-conserving device vs continuous flow, 252

Pulmonary function testing
in amyotrophic lateral sclerosis, 872
appointment-reminder calls and outpatient absenteeism, 36
book review
Paediatric pulmonary function testing (Hammer J, Eber E), 77
bullous lung disease vs. bullous emphysema, 532
confirmatory use for COPD diagnosis, 1120
forced expiratory time and spirometric performance changes, 246
for idiopathic pulmonary fibrosis, 257, 386
long-term stability of portable spirometers in COPD, 1167
methacholine challenge tests, conflicting results in, 62 percent of predicted values (editorial), 722
spirometry and COPD diagnosis (editorial), 1116
spirometry interpretation, fixed percentage method vs lower confidence limits, 737

Pulmonary hypertension
clinical presentation and symptoms, 373
diagnosis and management of, 368

Pulmonary infections
in lung transplantation, 398

Pulmonary rehabilitation. See Rehabilitation, pulmonary

Pulse oximeters. See Oximeters and oximetry

Q
Quality of life
tracheostomy in neuromuscular disease, 992

R
Radiation injuries
pneumonitis, 1255

Radiographic interpretation
book reviews
Functional lung imaging (Lipson DA, van Beek EJR), 1077
Teaching atlas of chest imaging, (Parker MS et al), 1076
chronic eosinophilic pneumonia, atypical findings, 764

Rehabilitation, pulmonary
book review
Pulmonary rehabilitation (Donner CF et al), 1479
chronic obstructive pulmonary disease clinical practice guidelines, 282

Reminder systems
appointment-reminder calls and outpatient absenteeism, 36

Renal failure. See Kidney failure

Research methods
book review
Qualitative research methods, 2nd ed (Liamputtong P, Ezzy D), 773

Respiration
book review
Pharmacology and pathophysiology of the control of breathing (Ward DS et al), 925
pressure gradient symbols and equations in breathing mechanics, comparison of, 1450
respiratory symbols and terminology, nomenclature maintenance, 1458

Respiratory care
in acute brain injury, 357
in lung transplantation, 392
for non-respiratory conditions, conference proceedings, 355

Respiratory care, pediatric
adolescents with asthma, learning needs and Internet use, 1441
book review
Paediatric pulmonary function testing (Hammer J, Eber E), 77
forehead reflectance pulse oximetry vs digit sensor, 726
heliox use, 619
hospital discharge of respiratory-technology-dependent children, 744
jet nebulizer delivery of aerosols in ventilated newborns, 1244
nebulized bronchodilator delivery, pediatric lung model,
neuromuscular disease, 885, 1067
transition to adult care, 891
Respiratory dead space
effects on PaCO₂ in lung-protective ventilation, 1140
in face masks with holding chambers, 140
infant aerosol holding chamber face masks (editorial),
123
Respiratory diseases and disorders
book reviews
Physiologic basis of respiratory disease (Hamid Q et
al), 540
Q&A color review of respiratory medicine, 2nd ed
(Sapiro SG et al), 669
Synopsis of diseases of the chest, 3rd ed (Fraser RS et
al), 667
software review
UpToDate in pulmonary and critical care medicine,
version 13.3 (King TE Jr, et al), 776
Respiratory failure
acute
clinical assessment of, 1017
mechanical ventilation predictors, 1018
neuromuscular disease causing, 1016, 1069
noninvasive positive-pressure ventilation in, 1019,
1226, 1237
chronic
cachexia and (editorial), 121
weight gain in cachectic COPD patients receiving
NPPV, 126
Respiratory muscles
COPD and, 840, 1068
pacing in spinal cord injury, 861
physiology, 832
thixotropy conditioning and chest wall volume in COPD,
750
training in spinal cord injury, 858
Respiratory system
book reviews
Respiratory physiology: a clinical approach
(Schwartzstein RM, Parker MJ), 1182
Respiratory physiology: the essentials, 7th ed (West
JB), 1181
neuromuscular
functional anatomy, 830
physiology, 829
spinal cord injury and, 854
Respiratory therapists
dedicated respiratory care discharge coordinator for re-
spiratory-technology-dependent children, 744
disease management as role for (editorial), 1400
oxygen protocol evaluation in long-term care, 1424
Respiratory tract infections
book review
The microbe-host interface in respiratory tract infec-
tions (Kimpen JLL, Ramilo O), 302
Resuscitation
book review
Cardiopulmonary resuscitation (Ornato JP, Peberdy
MA), 76
Retrospective studies
mechanical ventilation in Guillain-Barré syndrome, 1403
Risk factors
heliox usage, 657
travel and venous thrombosis, 1177
Secondhand smoke
noninvasive pulse CO-oximeter for measurement of
carboxyhemoglobin, 758
Sedation
ICU, dexmedetomidine for, 492
in intensive care unit (editorial), 489
Severe acute respiratory syndrome (SARS)
book reviews
SARS: a case study in emerging infections (McLean
AR et al), 300
Severe acute respiratory syndrome (Peiris M et al),
775
Sickle cell disease
pulmonary hypertension and, 372
Sleep apnea
book review
Surgical management of sleep apnea and snoring (Ter-
ris DJ, Goode RL), 1477
in renal failure, 418
Sleep apnea, obstructive
in congestive heart failure, 408
Sleep disorders
book reviews
Atlas of sleep medicine (Chokroverty S et al), 1476
Principles and practice of sleep medicine, 4th ed
(Kryer MH et al), 1475
Sleep medicine: a guide to sleep and its disorders,
2nd ed (Shneerson JM), 929
Smoking and smoking cessation
book review
Smoking cessation, 2nd ed (West R, Shiffman S), 432
chronic obstructive pulmonary disease clinical practice
guidelines, 281
idiopathic pulmonary fibrosis with emphysema, 257
Software review
UpToDate in pulmonary and critical care medicine,
version 13.3 (King TE Jr, et al), 776
S
Sedation
ICU, dexmedetomidine for, 492
in intensive care unit (editorial), 489
Sedation
ICU, dexmedetomidine for, 492
in intensive care unit (editorial), 489
Sleep apnea
book review
Surgical management of sleep apnea and snoring (Ter-
ris DJ, Goode RL), 1477
in renal failure, 418
Sleep apnea, obstructive
in congestive heart failure, 408
Sleep disorders
book reviews
Atlas of sleep medicine (Chokroverty S et al), 1476
Principles and practice of sleep medicine, 4th ed
(Kryer MH et al), 1475
Sleep medicine: a guide to sleep and its disorders,
2nd ed (Shneerson JM), 929
Smoking and smoking cessation
book review
Smoking cessation, 2nd ed (West R, Shiffman S), 432
chronic obstructive pulmonary disease clinical practice
guidelines, 281
idiopathic pulmonary fibrosis with emphysema, 257
Software review
UpToDate in pulmonary and critical care medicine,
version 13.3 (King TE Jr, et al), 776
S
Secondhand smoke
noninvasive pulse CO-oximeter for measurement of
carboxyhemoglobin, 758
Sedation
ICU, dexmedetomidine for, 492
in intensive care unit (editorial), 489
Sleep apnea
book review
Surgical management of sleep apnea and snoring (Ter-
ris DJ, Goode RL), 1477
in renal failure, 418
Sleep apnea, obstructive
in congestive heart failure, 408
Sleep disorders
book reviews
Atlas of sleep medicine (Chokroverty S et al), 1476
Principles and practice of sleep medicine, 4th ed
(Kryer MH et al), 1475
Sleep medicine: a guide to sleep and its disorders,
2nd ed (Shneerson JM), 929
Smoking and smoking cessation
book review
Smoking cessation, 2nd ed (West R, Shiffman S), 432
chronic obstructive pulmonary disease clinical practice
guidelines, 281
idiopathic pulmonary fibrosis with emphysema, 257
Software review
UpToDate in pulmonary and critical care medicine,
version 13.3 (King TE Jr, et al), 776
Specimen handling
blood-gas analysis and (editorial), 717
syringe material, storage time, and temperature effects
on blood-gas analysis, 732

Speech
ventilator-assisted, in spinal cord injury, 859

Spinal cord injury
mortality in, 856
respiratory dysfunction and management, 853
respiratory system pathophysiology, 854

Spirometry
changes in pulmonary function testing, 246
COPD clinical practice guidelines, 277
for COPD diagnosis, 1116, 1120
fixed percentage method vs lower confidence limits de-
fining normality limits, 737
interpretation standards (editorial), 719
portable spirometers, long-term stability in COPD, 1167
Qualitative studies to explore barriers to spirometry use:
a breath of fresh air? (letter), 768

Sputum
chest physiotherapy with positive airway pressure, 1145

Standards
percent of predicted values in pulmonary function test-
ing (editorial), 722

Statistics
resampling for normalizing benchmarking data, 145

Steroids
for COPD, 289
COPD clinical practice guidelines, 277

Suction and suctioning devices
closed catheter, and work of breathing, 423
open vs closed, in lung-protective ventilation, 497
tracheostomy in neuromuscular disease, 997

Surgery, thoracic
book review
General thoracic surgery, 6th ed (Shields TW et al), 79

Symbols
published pressure gradient symbols and equations in
breathing mechanics, comparison of, 1450
respiratory symbols and terminology, nomenclature
maintenance, 1458

Syringes
plastic syringes and blood gas analysis (editorial), 717
syringe material, storage time, and temperature effects
on blood-gas analysis, 732

Systolic dysfunction
in congestive heart failure, 404

Teaching Case of the Month
abnormally increased power of breathing from closed
suction catheter, 423
bronchopulmonary sequestration, 661
bullaous lung disease vs bullous emphysema, 532
chronic eosinophilic pneumonia, 764
radiation pneumonitis, 1255
traveling as venous thrombosis risk factor, 1177
tricuspid endocarditis with pulmonary emboli, 1471

Team care
tracheotomy management in ICU, models for, 1230

Temperature
syringe material, storage time, and temperature effects
on blood-gas analysis, 732

Tests and testing
book review
Measurement and evaluation in human performance,
3rd ed (Morrow JR Jr et al), 77

Thalassemia
beta, extramedullary hematopoietic mass rupture and
hemotorax in (case report), 272

Thixotropy
conditioning of inspiratory muscles and chest wall vol-
ume in COPD, 750

Thoracic imaging. See Chest imaging

Time factors
forehead reflectance pulse oximetry (editorial), 715
syringe material, storage time, and temperature effects
on blood-gas analysis, 732
time to wean after tracheotomy, 1408

time to wean after tracheotomy, 1408

Tobacco smoke pollution
noninvasive pulse CO-oximeter for carboxyhemoglo-in, 758

Tomography, emission computed
chronic eosinophilic pneumonia, atypical findings,
764
rounded atelectasis with atypical computed tomography
findings (case report), 761

Tracheotomy and tracheostomy
chronic eosinophilic pneumonia, atypical findings,
764
time to wean after tracheotomy, 1408
tracheostomy in neuromuscular disease, 984, 1069
complications, 990
decannulation, 998
timing of, 985
tubes, types of, 994
tracheostomy ventilation, problems with, 1006
tracheostomy management in ICU, models for, 1230

Travel
as venous thrombosis risk factor, 1177
Treatment outcome
NPPV use on regular hospital ward, 1237

Tubes, endotracheal
closed catheter system increasing power of breathing, 423

Urinothorax
pathophysiology of, 418

U.S. Food and Drug Administration (FDA)
Heliox therapy and devices cleared by FDA (letter), 1261

Vascular diseases
pulmonary arterial hypertension, 368

Venous thrombosis
travel as risk factor, 1177

Ventilation, negative-pressure
in neuromuscular disorders, 897, 1005

Ventilation, nocturnal
in neuromuscular disorders, 1009

Ventricular disorders
inhaled nitric oxide for, after extrapleural pneumonectomy (case report), 1172

Vital capacity
spirometry interpretation, fixed percentage method vs lower confidence limits, 737
spirometry interpretation standards (editorial), 719

W

Weaning from ventilatory support
in acute brain injury, 363
dexmedetomidine in, 489, 492
diaphragmatic dysfunction, 1057
heliox and, 638
minute ventilation recovery time, 133
in neuromuscular disease, 1020
time to wean after tracheotomy, 1408
tracehectomy management in ICU, models for, 1230

Web site reviews
Zap asthma online simulation, 305

Wegener’s granulomatosis
respiratory complications, 415

Work of breathing
closed suction catheter and, 423
pressure gradient symbols and equations in breathing mechanics, comparison of, 1450

Writing
book review
Write it down: guidance for preparing effective and compliant documentation, 2nd ed (Gough J), 771

X

X-rays. See Radiographic interpretation