Subject Index to Volume 49 (2004)

1–128 JAN
129–224 FEB
225–328 MAR
329–448 APR
449–560 MAY
561–704 JUN
705–864 JUL
865–976 AUG
977–1120 SEP
1121–1272 OCT
1273–1464 NOV
1465–1592 DEC

A

Abdominal injuries
high positive end-expiratory pressure, in abdominal compartment syndrome (case report), 286

Abstracts
effective use of tables and figures, 1233
for presentations, writing of, 1206
in research papers, 1225

Accounting
respiratory care billing using PDA, 1339

Acute respiratory distress syndrome (ARDS)
aerosolized prostacyclins for, 643
book review
Acute respiratory distress syndrome (Matthay MM), 1551
dead-space measurements (editorial), 1006
evidence-based management, 793
drug therapy, 801
extracorporeal membrane oxygenation, 801
fluid management, 803
high-frequency oscillatory ventilation, 799
inhaled nitric oxide, 801
lung-protective ventilation, 794
nutritional support, 805
online clinical education, 1015
partial liquid ventilation, 800
prone positioning, 800
surfactant replacement therapy, 800
high-frequency oscillation for acute chest syndrome, 263
pulmonary dead-space fraction, prognostic value, 1008
pulmonary hyperinflation and respiratory distress following solvent aspiration (case report), 1335
severe, with malaria, prone positioning for (case report), 282

Acute respiratory failure. See also Respiratory failure
body mass index and noninvasive positive-pressure ventilation, treatment outcome, 1320

Adenocarcinoma
false-positive sputum cytology, in pulmonary infarction (case report), 186

Adenocarcinoma, bronchiolo-alveolar
with cystic lesions (case report), 1522
pneumonia vs, 1349

Advance directives
chronic obstructive pulmonary disease and, 90

Advanced cardiac life support
book reviews
ACLS quick review study guide, 2nd ed (Aehlert B), 425
Rapid ACLS (pocket guide) (Aehlert B), 425
video review
Success in ACLS: essential skills, 3rd ed (Tait C), 425

Aerosols and aerosol administration
heat and moisture exchanger and aerosol administration (letter), 1546
in mechanical ventilation, 609
antibiotics, 635
basic techniques, 611
configuration of devices, 614
factors affecting delivery, 616
goals, 667
infants and children, 653
inhaled bronchodilator administration, 623
intratracheal catheter, 668
liposome formulations, 668
new frontiers in, 666
noninvasive, 620
surfactant therapy, 671
vibrating plate technology, 667
nebulizer designs, performance comparison, 174
with noninvasive positive-pressure ventilation, 823
prostacyclins, 640

**Airflow obstruction**

with dynamic gas trapping, in bone marrow transplantation, 1542
measurement errors in mechanical ventilation, 1022

**Airway care and management**

book review
 *Fundamentals of airway management techniques: a color atlas* (Patil VU), 1357
Nasotracheal suctioning—2004 revision & update (AARC clinical practice guideline), 1080

**Airway resistance**

dynamic hyperinflation, determinants in bench model, 1326

**Albuterol**
metered-dose inhaler with spacer delivery, following short-duration manual ventilation, 1029

**Allergies**

book reviews
 *The allergy and asthma cure: a complete 8-step nutritional program* (Pescatore F), 946
 *Middleton’s Allergy: principles and practice*, 6th ed (Adkinson NF Jr et al), 943
 *Pediatric allergy: principles and practice* (Leung DYM et al), 309

**Alpha-1 antitrypsin deficiency**
in chronic obstructive pulmonary disease, 102

**American Association for Respiratory Care**

Open Forum abstracts—2004, 1361
partnership with National Lung Health Education Program
editorial, 584
quality assurance in spirometry and, 587

**Anatomy and physiology**

book review
 *Physiology secrets*, 2nd ed (Raff H), 430

**Anesthesia and anesthetics**
hypothermia and (editorial), 158

**Antibiotic drugs**
aerosol delivery, in mechanical ventilation, 635
for asthma management, 788
for chronic obstructive pulmonary disease exacerbation, 772
empiric, for nosocomial pneumonia (review article), 1530

**Arterial blood gases**
blood gas monitoring in mechanical ventilation following spontaneous breathing trial, 1316

**Aspiration**
respiratory dead space, in COPD management, 257

**Asthma**

book reviews
  *The allergy and asthma cure: a complete 8-step nutritional program* (Pescatore F), 946
  *Asthma: social and psychological factors and psychosomatic syndromes* (Brown ES), 1548
  *Childhood asthma and other wheezing disorders*, 2nd ed (Silverman M), 309
  *The immunological basis of asthma* (Lambrecht BN et al), 944
  *One minute asthma: what you need to know*, 6th ed (Plaut TF), 1547
management, evidence-based practice, 783
noninvasive positive-pressure ventilation for, 813
pediatric, metered-dose inhaler technique improvement, 600
pulmonary hyperinflation and respiratory distress following solvent aspiration (case report), 1335

**Atelectasis**
expiratory rib cage compression (editorial), 894
with endotracheal suctioning, 896
models, 897

**Atrial fibrillation**
pulmonary vein thrombosis with venous stenosis following radiofrequency ablation (case report), 1525

**Auscultation and breath sounds**
automated lung sound analysis in pneumonia, 1490
Is the stethoscope on the verge of becoming obsolete? (editorial), 1488

**Authorship. See Writing for publication**

**B**

**Bench evaluations**
albuterol delivery via metered-dose inhaler with spacer, neonatal ventilator-lung model, 1029
demand oxygen delivery systems, characteristics, 160
disposable manual resuscitators, 1509
dynamic hyperinflation, determinants of, 1326
endotracheal tube cuff inflators, laboratory evaluation, 166
nasal cannula/humidifier devices for high-flow gas therapy, 902
nebulizer designs, performance comparison, 174
oxygen demand valves (editorial), 156
Puritan Bennet 7200 and 840 ventilators, correction of respiratory resistance measurement errors, 1022
research methods, 1157

**Benefit-cost analysis. See Cost-effectiveness and cost issues**
Beta agonists
for asthma, inhaled corticosteroids vs, 786
dosage in mechanically ventilated patients, 628

Biliary cirrhosis
respiratory muscle weakness from long-term colchicine
therapy (case report), 189

Billing systems
respiratory care billing using PDA, 1339

Blood gas monitoring
in mechanically ventilated patients completing sponta-
neous breathing trial, 1316
pulse oximetry measurements and blood gas analysis
values, disparity between (PFT Corner), 1059
Transcutaneous blood gas monitoring for neonatal &
pediatric patients—2004 revision & update (AARC
clinical practice guideline), 1069

Body mass index
noninvasive positive-pressure ventilation in acute respira-
try failure, treatment outcome, 1320

Body temperature
accidental hypothermia, evaluation and management,
192

Bone marrow transplantation
airflow limitation and dynamic gas trapping, 1542

Book reviews
ACLS quick review study guide, 2nd ed (Aehlert B), 425
Acute respiratory distress syndrome (Matthay MA), 1551
Aeromedical evacuation: management of acute and sta-
bilized patients (Hurd WW, Jernigan JG), 113
The allergy and asthma cure: a complete 8-step nutri-
tional program (Pescatore F), 946
Assisted ventilation of the neonate, 4th ed (Goldsmith
JP, Karotkin EH), 686
Asthma: social and psychological factors and psycho-
somatic syndromes (Brown ES), 1548
An atlas of chronic obstructive pulmonary disease (Han-
sel TT, Barnes PJ), 1253
An atlas of induced sputum: an aid for research and
diagnosis (Djukanovic R, Sterk PJ), 1547
An atlas of infant polysomnography (Crowell DH), 687
Basic clinical lab competencies for respiratory care: an
integrated approach, 4th ed (White GC), 537
Bennett and Elliott’s physiology and medicine of diving,
5th ed (Brubakk AO, Neuman TS), 427
Bove and Davis’ diving medicine, 4th ed (Bove AA),
1359
Chemokines in the lung (Strieter RM et al), 948
Childhood asthma and other wheezing disorders, 2nd
ed (Silverman M), 309
Coping with chronic obstructive pulmonary disease
(Simberg EF), 543
Coronary circulation and myocardial ischemia (Pinsky
MR et al), 540

Critical diagnostic thinking in respiratory care: a case-
based approach (Stoller JK et al), 844
Cross-cultural medicine (Bigby J), 685
Cross-examination: the comprehensive guide for experts
(Babitsky S, Mangraviti JJ Jr), 845
Drugs for the treatment of respiratory diseases (Spina
D, et al), 429
Egan’s fundamentals of respiratory care, 8th ed (Wilkins
RL et al), 684
Essentials of mechanical ventilation, 2nd ed (Hess DR,
Kacmarek RM), 537
Ethics and evidence-based medicine: fallibility and re-
sponsibility in clinical science (Goodman KW), 844
Fast facts—respiratory tract infections, 2nd ed (Read
RC, Craven DE), 111
Ferri’s clinical advisor 2003: instant diagnosis and treat-
ment (Ferri FF), 112
From nutrition support to pharmacologic nutrition in
the ICU (Pichard C, Kudsk KA), 428
Fundamentals of airway management techniques: a
color atlas (Patil VU), 1357
Gene therapy in lung disease (Albelda SM), 949
Hospital infection; from miasmas to MRSA (Ayliffe GAJ,
English MP), 689
The immunological basis of asthma (Lambrecht BN et
al), 944
Inhalation therapy for pulmonary hypertension: the pro-
cedings of a symposium held at the Annual Congress
of the European Respiratory Society, Berlin, Septem-
ber 2001 (Higenbottam T, Emery C), 541
Interpretation of pulmonary function tests: a practical
guide, 2nd ed (Hyatt RE et al), 538
Intersitial lung disease, 4th ed (Schwarz MI, King TE
Jr), 208
Lung cancer (Fossella FV, et al), 114
Lung transplantation (Banner NR, et al), 1256
Lung volume reduction surgery for emphysema (Fessler
HE, et al), 1256
Manual of pulmonary function testing, 8th ed (Ruppel
GL), 1066
Mechanical ventilation and weaning (Mancebo J et al),
211
Mechanics of breathing: pathophysiology, diagnosis,
and treatment (Aliverti A et al), 1064
Middleton’s allergy: principles and practice, 6th ed (Ad-
kkinson NF Jr et al), 943
Multidisciplinary approaches to breathing pattern dis-
orders (Chaitow L et al), 847
Neonatal respiratory disorders, 2nd ed (Greenough A,
Milner AD), 1356
Non-neoplastic advanced lung disease (Maurer JR), 1551
Occupational disorders of the lung: recognition, man-
agement, and prevention (Hendrick DJ et al), 209
One minute asthma: what you need to know, 6th ed (Plaut TF), 1547
Pediatric allergy: principles and practice (Leung DYM et al), 309
Pharmacotherapy in chronic obstructive pulmonary disease (Celli BR), 1255
Physiology secrets, 2nd ed (Raff H), 430
Pleural disease (Bouros D), 1358
Prevention and control of nosocomial infections, 4th ed (Wenzel RP), 688
Principles of pulmonary medicine, 4th ed (Weinberger SE), 846
Pulmonary biology in health and disease (Bittar FE), 210
Radiology of the chest and related conditions (Wright FW), 848
Rapid ACLS (pocket guide) (Aehlert B), 425
Respiratory control and disorders in the newborn (Mathew OP), 311
Respiratory critical care (Davidson C, Treacher D), 110
Respiratory disorders and behavioral medicine (Kaptein AA, Creer TL), 1549
Respiratory medicine, 3rd ed (Gibson GJ et al), 206
Respiratory medicine (PDxMD series), 207
The respiratory system (Davies A, Moore C), 1063
Shelter from the storm: caring for a child with a life-threatening condition (Hilden JM et al), 311
Silvee Wobbert and Wheezing Will in the big game (Robert G), 312
Simulations in biomedicine V (Arnez ZM, et al), 424
Textbook of pleural diseases (Light RW, Lee YCG), 1257
Thoracic trauma and critical care (Karmy-Jones R et al), 113
Tobacco dependence and COPD: a state-of-the art series, 1254
Tuberculosis, 2nd ed (Rom WN, Garay SM), 1067
20 common problems in respiratory disorders (Hueston WJ), 947
Breath sounds. See Auscultation and breath sounds
Bronchi
tracheal, 1056
Bronchioliitis
diffuse, chlorine gas inhalation and (case report), 291
in infants, management guidelines, 589
viral, respiratory care process improvement (editorial), 581
Bronchiolitis obliterans
airflow obstruction with dynamic gas trapping, in bone marrow transplantation, 1542
Bronchodilators, bronchodilatation, and bronchodilator administration
for COPD exacerbations, 770
extended-action, for COPD, 65

for infant bronchiolitis, 589
inhaled, in mechanical ventilation, 623
administration technique, 627
dosage, 628
in infants and children, 662
lower-respiratory-tract deposition, 624
metered dose inhaler vs. nebulizer, 640
patient selection, 627
with noninvasive ventilation, 631

Bronchoscopy
lung volume reduction surgery, 57
Bullectomy
for chronic obstructive pulmonary disease, 54

C

Calorimeters and calorimetry
Metabolic measurement using indirect calorimetry during mechanical ventilation—2004 revision & update (AARC clinical practice guideline), 1073
Carbapenems
empiric antibiotics for nosocomial pneumonia (review article), 1530
Carbon dioxide
expired, and pulmonary dead-space fraction in ARDS, 1008
heliox jet ventilation administration and clearance (case report), 1038
respiratory dead space aspiration, in COPD management, 257
Cardiac defibrillation
Resuscitation and defibrillation in the health care setting—2004 revision & update (AARC clinical practice guideline), 1085
Cardiopulmonary resuscitation (CPR). See Resuscitation
Case control studies
research methods, 1171
Case reports
acute interstitial pneumonitis complicating polymyositis, 1515
chlorine gas, acute inhalation injury, 291
community-acquired pneumonia from Pasteurella multocida, 1528
false-positive sputum cytology, in pulmonary infarction, 186
helix noninvasive ventilation for weaning from ventilatory support, 1035
high PEEP for respiratory failure in abdominal compartment syndrome, 286
high-frequency jet ventilation administration and carbon dioxide clearance augmentation, 1038
lung adenocarcinoma with cystic lesions, 1522
pneumonia from *Cryptococcus neoformans*, possible transmission from cockatiel, 606
pulmonary hyperinflation and respiratory distress following solvent aspiration, 1335
pulmonary vein thrombosis with venous stenosis following radiofrequency ablation, 1525
purpose of, 1187
respiratory muscle weakness from long-term colchicine therapy, 189
severe ARDS with malaria, 282
writing of, 1186
Cats
community-acquired pneumonia from *Pasteurella multocida* (case report), 1528
Chemokines
book review
*Chemokines in the lung* (Strieter RM et al), 948
Chest physical therapy
expiratory rib cage compression for atelectasis (editorial), 894
with endotracheal suctioning, 896
Chlorine
acute inhalation injury (case report), 291
Chronic obstructive pulmonary disease (COPD)
AARC/National Lung Health Education Program and spirometry quality assurance (editorial), 587
alpha-1 antitrypsin deficiency in, 102
book reviews
*An atlas of chronic obstructive pulmonary disease* (Hansel TT, Barnes PJ), 1253
*Coping with chronic obstructive pulmonary disease* (Simberg EF), 543
*Pharmacotherapy in chronic obstructive pulmonary disease* (Celli BR), 1255
*Tobacco dependence and COPD: a state-of-the art series*, 1254
conference proceedings, 28
diagnosis, 101
drug therapy, 107
alveolar-repairing agents, 67
extended-action bronchodilators, 65
phosphodiesterase inhibitors, 66
vasodilators, 66
emerging medical therapies, 64
epidemiology, 100
exacerbations, 102
acute respiratory failure management, evidence-based practice, 766
assessment, 769
etiology, 767
oxygen therapy, 769
exercise test comparison and rehabilitation outcomes, 1498
helmet noninvasive ventilation for weaning from ventilatory support (case report), 1035
management of, 103
nocturnal hypoxemia in, 42
noninvasive mechanical ventilation, causes of failure, 295
noninvasive positive-pressure ventilation, 72, 107, 812
practice guidelines, 105
pulmonary rehabilitation, 28, 105
reimbursement issues, 45
respiratory dead space aspiration, 257
screening, AARC/National Lung Health Education Program partnership (editorial), 584
sleep disorders in, 39, 106
smoking cessation and, 104
surgical therapies, 53, 106
terminal care, 90, 108
Citation analysis
publications, citations, and impact factors of critical care investigators, 276
Clinical information systems
collectors and ICU research, 518
Clinical practice guidelines (CPG). See Guidelines, recommendations, and statements
Clinical trials
research design and methodology, 1165
Colchicine
severe respiratory muscle weakness from long-term therapy (case report), 189
Compartment syndromes
abdominal, high positive end-expiratory pressure for (case report), 286
Computer simulation
book review
*Simulations in biomedicine V* (Arnez ZM, et al), 424
human lung boundary model, reconstruction from MRI images, 180
patient signs and symptoms, 402
respiratory system, 401, 533
Computer-assisted instruction
teleconferencing and distance learning, 410
Computers. See also Handheld computers
automated lung sound analysis in pneumonia, 1490
in intensive care unit research, 518, 535
for mechanical ventilation control, 507, 535
for patient education, 480, 534
portable, comparison and applications, 497, 535
problems and issues, 525, 536
reliability of data, 527
for remote patient monitoring, 480, 534
in respiratory care
clinical decision-support systems, 378, 533
conference proceedings, 360, 480
information retrieval, 389, 533
management information systems, 367, 532
overview, 361
privacy of health information, 361
summary, 531
staff training and, 489, 534

Conference proceedings
chronic obstructive pulmonary disease, 28
emerging medical therapies, 64
noninvasive positive pressure ventilation, 72
pulmonary rehabilitation, 28
sleep and, 39
summary, 99
surgical therapies, 53
terminal care, 90
computers in respiratory care, 360, 480
clinical decision-support systems, 378
complications of, 525
education, teleconferencing, and distance learning, 410
foreword, 360
information retrieval, 389
for intensive care unit research, 518
management information systems, 367
mechanical ventilation control, 507
overview, 361
patient education and monitoring, 480
portable, applications, 497
simulations and modeling, 401
staff training, 489
summary, 531
evidence-based respiratory care (New Horizons Symposium), 729
acute lung injury, 793
acute respiratory distress syndrome (ARDS), 793
acute respiratory failure, management during COPD exacerbation, 766
asthma management, 783
noninvasive positive-pressure ventilation for acute respiratory failure, 810
principles, 730
respiratory care protocols, effectiveness of, 761
ventilation modes, 742
ventilator weaning and discontinuation, 830

Conferences
effective poster presentation design, 1213
presenting, summarizing, and defending posters, 1217

Confidentiality
in case report writing, 1189
computers and privacy of patient information, 361

Consumer health information
Consumer-directed health care: are consumers ready? (editorial), 1305
Internet-based, 480

Continuous positive airway pressure (CPAP)
Application of continuous positive airway pressure to neonates via nasal prongs, nasopharyngeal tube, or nasal mask—2004 revision & update (AARC clinical practice guideline), 1100
for sleep-related disorders in COPD, 45

Control systems
computerized, in mechanical ventilation, 507

Corrections
Correction of co-author’s location “The effect of body mass index on outcomes of patients receiving noninvasive positive-pressure ventilation in acute respiratory failure” (Respir Care 2004;49[11]:1320-1325), 1546

Corticosteroids. See Steroids

Cost-effectiveness and cost issues
Consumer-directed health care: are consumers ready? (editorial), 1305
management information systems, 367

CRCE. See Education and training

Critical care. See Intensive care

Critical thinking
book review
Critical diagnostic thinking in respiratory care: a case-based approach (Stoller JK et al), 844

Cryptococcus neoformans
pneumonia from, in patient receiving infliximab (case report), 606

Cuffs, tracheal tube
endotracheal tube cuff inflators, laboratory evaluation, 166

Cultural values
book review
Cross-cultural medicine (Bigby JA), 685

Cystic fibrosis
nebulizer use and maintenance by patients, 1504

Cysts
lung adenocarcinoma with cystic lesions (case report), 1522

Cytology
sputum, false-positive, in pulmonary infarction (case report), 186

Data collection
clinical decision support systems, 378
management information systems, 367
respiratory care billing using PDA, 1339
surveys, design of, 1181
with handheld computers (editorial), 1307

Database searching
for literature reviews, 1242
tips for, 389

D
Death and dying
book review

Shelter from the storm: caring for a child with a life-threatening condition (Hilden JM et al), 311
chronic obstructive pulmonary disease and, 90

Decision making
computerized clinical decision support, 378
Consumer-directed health care: are consumers ready? (editorial), 1305
evidence-based management of acute respiratory distress syndrome, online clinical education, 1015
participative, respiratory therapists’ attitudes toward, 917

Defibrillation. See Cardiac defibrillation

Dermatomyositis
with acute interstitial pneumonitis (case report), 1515

Diagnosis
book review

Ferri’s clinical advisor 2003: instant diagnosis and treatment (Ferri FF), 112

Diagnosis, differential
bronchioloalveolar carcinoma vs. pneumonia, 1349

Disinfection. See Infections and infection control

Disposable equipment. See Equipment and supplies

Distance learning
teleconferencing and, 410

Diving
book reviews

Bennett and Elliott’s physiology and medicine of diving, 5th ed (Brubakk AO, Neuman TS), 427
Bove and Davis’ diving medicine, 4th ed (Bove AA), 1359

Donald F Egan Scientific Lecture 2003
Translating clinical research into clinical practice in the intensive care unit: the central role of respiratory care, 837

Drugs and drug therapy
book reviews

Drugs for the treatment of respiratory diseases (Spina D, et al), 429
Pharmacotherapy in chronic obstructive pulmonary disease (Celli BR), 1255
computer-based delivery systems, 495

E

Editorials

The American Association for Respiratory Care and the National Lung Health Education Program: assuring quality in spirometry, 587
The American Association for Respiratory Care and the National Lung Health Education Program: partnering for our patients, 584

Announcing a new Respiratory Care section: Teaching Case of the Month, 895
Consumer-directed health care: are consumers ready? 1305
Demand valves for oxygen therapy: your mileage may vary, 156
Expanding opportunities for handheld technology use in respiratory care, 1307
Expiratory chest compression for atelectasis: no harm, no foul—oops! 894
Guidelines for preventing health-care-associated pneumonia, 2003: buyer beware! 891
Hypothermia—in the operating room and beyond, 158
Is the stethoscope on the verge of becoming obsolete? 1488
Research and publication in respiratory care, 1145
Respiratory care of bronchiolitis patients: a proving ground for process improvement, 581
What do dead-space measurements tell us about the lung with acute respiratory distress syndrome? 1006

Education, continuing
computer-based, 489
CRCE through the Journal—2004, 951; answer key, 1271
evidence-based management of acute respiratory distress syndrome, online clinical education, 1015

Education, patient
AARC/National Lung Health Education Program partnership (editorial), 584, 587
book review
Sillwee Wobbert and Wheezing Will in the big game (Robert G), 312
computers in, 480
durable equipment providers for home respiratory care, comparative information for patients, 1309

Education and training
facilitating research projects, 1199
Life-experience credit versus “diploma mill” (letter), 1059
PDA applications for, 502
staff training and computers, 489
teleconferencing and distance learning, 410

Egan Lecture. See Donald F Egan Scientific Lecture 2003

Electroencephalography
book review
An atlas of infant polysomnography (Crowell DH), 687

Emphysema
book review
Lung volume reduction surgery for emphysema (Fessler HE, et al), 1256
surgery for, 53
Equipment and supplies

demand oxygen delivery systems, characteristics, 160
device and equipment evaluations, research methods, 1157
disposable manual resuscitators, bench evaluation, 1509
durable equipment providers for home care, comparative information for patients, 1309
endotracheal tube cuff inflators, laboratory evaluation, 166
Is the stethoscope on the verge of becoming obsolete? (editorial), 1488
nebulizer designs, performance comparison, 174
oxygen demand valves (editorial), 156

Esophagoduodenoscopy
methemoglobinemia following, 940

Ethics, professional
book review
Ethics and evidence-based medicine: fallibility and responsibility in clinical science (Goodman KW), 844

Evidence-based practice
acute lung injury and acute respiratory distress syndrome, 793
acute respiratory distress syndrome management, online clinical education, 1015
acute respiratory failure management during COPD exacerbation, 766
noninvasive positive-pressure ventilation for, 810
asthma management, 783
book review
Ethics and evidence-based medicine: fallibility and responsibility in clinical science (Goodman KW), 844
computerized decision support systems, 378
defined, 731
New Horizons symposium, 729
principles, 730
respiratory care protocols, effectiveness of, 761
ventilator modes, 742
ventilator weaning and disconntinuation, 830

Exercise
noninvasive positive-pressure ventilation as adjunct, in pulmonary rehabilitation, 79

Exercise testing
pulmonary rehabilitation outcomes, 1498

Expectorants
for chronic obstructive pulmonary disease exacerbation, 772

Expert testimony
book review
Cross-examination: the comprehensive guide for experts (Babitsky S, Mangraviti JJ Jr), 845

Extracorporeal membrane oxygenation (ECMO)
for acute respiratory distress syndrome, 801

Extubation
blood gas monitoring in mechanical ventilation following spontaneous breathing trial, 1316

F

Fees and charges
respiratory care billing using PDA, 1339

Forced expiratory volume
airflow obstruction with dynamic gas trapping, in bone marrow transplantation, 1542

Fraction of delivered oxygen
disposable manual resuscitators, bench evaluation, 1509

G

Gas and gases
airflow obstruction with dynamic gas trapping, in bone marrow transplantation, 1542
exchange, computer simulations, 405

Gene therapy
book review
Gene therapy in lung disease (Albelda SM), 949

Graft vs host disease
airflow obstruction with dynamic gas trapping, in bone marrow transplantation, 1542

Guidelines, recommendations, and statements
Application of continuous positive airway pressure to neonates via nasal prongs, nasopharyngeal tube, or nasal mask—2004 revision & update (AARC clinical practice guideline), 1100
bronchiolitis treatment in infants, 589
for chronic obstructive pulmonary disease, 105
effectiveness of respiratory care protocols, 761
empirc antimicrobial therapy of nosocomial pneumonia (review article), 1530
Guidelines for preventing health-care-associated pneumonia, 2003; recommendations of the CDC and the Healthcare Infection Control Practices Advisory Committee, 926
Metabolic measurement using indirect calorimetry during mechanical ventilation—2004 revision & update (AARC clinical practice guideline), 1073
Nasotracheal suctioning—2004 revision & update (AARC clinical practice guideline), 1080
prevention of health-care-associated pneumonia, concerns about (editorial), 891
pulmonary rehabilitation for COPD, 28
Resuscitation and defibrillation in the health care setting—2004 revision & update (AARC clinical practice guideline), 1085
tips for locating, 397
Transcutaneous blood gas monitoring for neonatal & pediatric patients—2004 revision & update (AARC clinical practice guideline), 1069

H

Handheld computers
applications, 501
basic features, 500
comparison, 498
expanding use in respiratory care (editorial), 1307
for respiratory care billing, 1339
in respiratory care, 497, 535
Health care
appropriateness of respiratory care in VA hospitals, 907
Consumer-directed health care: are consumers ready? (editorial), 1305
Health Insurance Portability and Accountability Act (HIPPA)
computers and, 529
patient privacy provisions, 361
Heart diseases and disorders
book review
Coronary circulation and myocardial ischemia (Pin斯基 MR et al), 540
Heat and moisture exchangers
Effects of HME on aerosol administration (letter), 1546
Helium-oxygen gas mixture
for asthma management, 789
for chronic obstructive pulmonary disease exacerbation, 769
high-frequency jet ventilation administration and carbon dioxide clearance augmentation (case report), 1038
in noninvasive positive-pressure ventilation, 824
High-frequency oscillation
for acute chest syndrome, 263
History of respiratory care
Is the stethoscope on the verge of becoming obsolete? (editorial), 1488
Home care
durable equipment providers for home respiratory care, comparative information for patients, 1309
nebulizer use and maintenance by cystic fibrosis patients, 1504
Hospice care
chronic obstructive pulmonary disease, 90
Humidifiers and humidification
for noninvasive positive-pressure ventilation, 823
nasal high-flow gas therapy, evaluation of devices, 902
Hypercapnia and hypercapnia
sleep-related, in COPD, 39
Hypersensitivity. See Allergies

Hypertension, pulmonary. See Pulmonary hypertension
Hypothermia
accidental, evaluation and management, 192
clinical manifestations, 193
in operative settings (editorial), 158
rewarming, 198
stabilization, 196
Hypothesis
framing of, 1195
Hypoventilation
sleep-related, in COPD, 39
Hypoxemia and hypoxia
high-frequency oscillation for acute chest syndrome, 263
nocturnal, in COPD, 42
noninvasive mechanical ventilation, causes of failure, 295
respiratory failure with, noninvasive positive-pressure ventilation for, 813

I

Iloprost
aerosolized, 640
In vitro studies
device and equipment evaluation, 1157
Infarction, pulmonary. See Pulmonary embolism
Infections and infection control
Guidelines for preventing health-care-associated pneumonia, 2003: buyer beware! (editorial), 891
Guidelines for preventing health-care-associated pneumonia, 2003; recommendations of the CDC and the Healthcare Infection Control Practices Advisory Committee, 926
nebulizer use and maintenance by cystic fibrosis patients, 1504
Information retrieval
computers and ICU research, 518
tips for, 389
Information technology
automated lung sound analysis in pneumonia, 1490
clinical decision support systems, 378
expanding use of handheld devices in respiratory care (editorial), 1307
management information systems, 367
national health information infrastructure, 363
patient education and monitoring, 480
respiratory care billing using PDA, 1339
security issues, 525
staff training and, 489
teleconferencing and distance learning, 410
Informed consent
Consumer-directed health care: are consumers ready? (editorial), 1305
in respiratory care research, 1151
Inhalation exposure
pulmonary hyperinflation and respiratory distress following solvent aspiration (case report), 1335

Inservice training
computers in, 489

Institutional review board
in respiratory care research, 1151

Insufflation, tracheal gas
dead space aspiration vs, in COPD management, 257

Intensive care
book reviews
   From nutrition support to pharmacologic nutrition in the ICU (Pichard C, Kudsk KA), 428
   Respiratory critical care (Davidson C, Treacher D), 110
publications, citations, and impact factors of critical care investigators, 276

Intensive care units (ICU)
aerosolized antibiotic delivery in, 637
clinical research and respiratory care in, 837
computers for research in, 518
respiratory care protocols, effectiveness of, 762

Internet
evidence-based management of acute respiratory distress syndrome, online clinical education, 1015
health information on, 480
information retrieval tips, 389
teleconferencing and distance learning, 410
Web site review
   AccessMedicine.com, 1360

Interstitial lung disease
acute pneumonitis with polymyositis (case report), 1515
book review
   Interstitial lung disease, 4th ed (Schwarz MI, King TE Jr), 208

Intubation, endotracheal
body mass index and noninvasive positive-pressure ventilation in acute respiratory failure, 1320

Jet ventilation
heliox administration and carbon dioxide clearance augmentation (case report), 1038

Job satisfaction
participative decision making and, 917

Knowledge-based control
in mechanical ventilation, 510

Laboratories and laboratory practice
book review
   Basic clinical lab competencies for respiratory care, 4th ed (White GC), 537
device and equipment evaluation, 1157

Letters to the editor
Effects of HME on aerosol administration, 1546
Life-experience credit versus ‘diploma mill,’ 1061
Transtracheal oxygen: not exactly a ‘novel’ technology, 1354

Liposomes
aerosol formulations, in mechanical ventilation, 668

Lung
book review
   Chemokines in the lung (Strieter RM et al), 948
human lung boundary, computer model from MRI images, 180

Lung cancer
adenocarcinoma with cystic lesions (case report), 1522
book review
   Lung cancer (Fossella FV, et al), 114

Lung diseases and disorders
book reviews
   Gene therapy in lung disease (Albelda SM), 949
   Non-neoplastic advanced lung disease (Maurer JR), 1551
   Pulmonary biology in health and disease (Bittar FE), 210
false-positive sputum cytology, in pulmonary infarction (case report), 186
surgery for, 53

Lung injury, acute
evidence-based management, 793
ventilator-associated, alveolar instability in, 1045

Lung sounds. See Auscultation and breath sounds

Lung transplantation
book review
   Lung transplantation (Banner NR, et al), 1256
for chronic obstructive pulmonary disease, 57

Lung volume
airflow obstruction with dynamic gas trapping, in bone marrow transplantation, 1542
alveolar mechanics in mechanical ventilation, 1045
book review
   Lung volume reduction surgery for emphysema (Fessler HE, et al), 1256
reduction surgery, for chronic obstructive pulmonary disease, 55
M

Magnetic resonance imaging (MRI)
human lung boundary, computer model, 180

Malaria
severe ARDS with, prone positioning (case report), 282

Measurement methods
Metabolic measurement using indirect calorimetry during mechanical ventilation—2004 revision & update (AARC clinical practice guideline), 1073
respiratory resistance, correction of errors from flow-interruption technique, 1022

Mechanical ventilation
aerosols in, 609
antibiotics, 635
basic techniques, 611
factors affecting drug delivery, 616
inhaled bronchodilator administration, 623
noninvasive ventilation, 620
alveolar mechanics and lung injury, 1045
Application of continuous positive airway pressure to neonates via nasal prongs, nasopharyngeal tube, or nasal mask—2004 revision & update (AARC clinical practice guideline), 1100
blood gas monitoring following spontaneous breathing trial, 1316

book reviews
Assisted ventilation of the neonate, 4th ed (Goldsmith JP, Karotkin EH), 686
Essentials of mechanical ventilation, 2nd ed (Hess DR, Kacmarek RM), 537
Mechanical ventilation and weaning (Mancebo J et al), 211
for chronic obstructive pulmonary disease exacerbation, 773
computer control of, 507, 535
dynamic hyperinflation, determinants in bench model, 1326
endotracheal tube cuff inflators, laboratory evaluation, 166
evidence-based practice, 742
adaptive support ventilation, 748
airway pressure-release ventilation, 754
automatic tube compensation, 752
AutoMode ventilation, 746
dual-control ventilation, 743
proportional-assist ventilation, 746
high-frequency oscillation for acute chest syndrome, 263
lung-protective strategies in ARDS, 794
Metabolic measurement using indirect calorimetry during mechanical ventilation—2004 revision & update (AARC clinical practice guideline), 1073
noninvasive
causes of failure, 295

Medical illustration
helmet for weaning from ventilatory support (case report), 1035
respiratory resistance, correction of measurement errors, 1022
ventilators for NPPV, 82

Medical informatics
effective use of tables and figures in publications, 1233

Medical records
computerized clinical decision-support systems, 378
management information systems, 367
PDA applications for, 501
respiratory care billing using PDA, 1339

MEDLINE
information retrieval tips, 389
for literature reviews, 1242

Mentors and mentoring
professional achievement and, 304

Metabolism
Metabolic measurement using indirect calorimetry during mechanical ventilation—2004 revision & update (AARC clinical practice guideline), 1073

Methemoglobinemia
following esophagoduodenoscopy, 940

Models
bi-level positive-pressure ventilators, 270
human lung boundary, computer reconstruction from MRI images, 180
respiratory system, 401

Monitoring
remote, computers in, 480

Mucociliary clearance
in ARDS management, 803

Mucolytic agents. See Expectorants

Musculoskeletal diseases and disorders
respiratory muscle weakness from long-term colchicine therapy (case report), 189

N

National Lung Health Education Program (NLHEP)
AARC partnership and quality assurance in spirometry (editorial), 587
AARC partnership with (editorial), 584
affiliates, 682
roots, mission, future directions, 678

Nebulizers, inhalers, and vaporizers
in asthma management, 790
in mechanical ventilation
configuration of aerosol devices, 614
infants and children, 653
performance of devices, 624
metered-dose inhalers
with spacer, albuterol delivery, 1029
technique improvement, for pediatric asthma, 600
nebulizers
designs and performance comparison, 174
use and maintenance by cystic fibrosis patients, 1504

Neonatal diseases and disorders

book reviews
Assisted ventilation of the neonate, 4th ed (Goldsmith JP; Karotkin EH), 686
Neonatal respiratory disorders, 2nd ed (Greenough A, Milner AD), 1356
Respiratory control and disorders in the newborn (Mathew OP), 311

Neonatal respiratory care
albuterol delivery via metered-dose inhaler with spacer, neonatal ventilator-lung model, 1029
Application of continuous positive airway pressure to neonates via nasal prongs, nasopharyngeal tube, or nasal mask—2004 revision & update (AARC clinical practice guideline), 1100
Transcutaneous blood gas monitoring for neonatal & pediatric patients—2004 revision & update (AARC clinical practice guideline), 1069

Neural networks, artificial
computer control of, 511

New Horizons Symposium. See Conference proceedings

Nitric oxide
inhaled, for acute respiratory distress syndrome, 801
NLHEP. See National Lung Health Education Program

Noninvasive positive-pressure ventilation
for acute respiratory failure
aerosol delivery, 823
equipment selection, 818
evidence-based practice, 810
helium-oxygen mixture, 824
humidification during, 823
predictors of success, 817
adjunct, in exercise training, 79
causes of failure, 295
for chronic obstructive pulmonary disease, 72, 107
reimbursement issues, 47
sleep-related disorders, 45
helmet, for ventilator weaning (case report), 1035
pulmonary hyperinflation and respiratory distress following solvent aspiration (case report), 1335

Nosocomial diseases. See also Pneumonia, ventilator-associated
book reviews
Hospital infection: from miasmas to MRSA (Ayliffe GAIJ, English MP), 689
Prevention and control of nosocomial infections, 4th ed (Wenzel RP), 688
concerns about guidelines for pneumonia prevention (editorial), 891
Guidelines for preventing health-care-associated pneumonia, 2003; recommendations of the CDC and the Healthcare Infection Control Practices Advisory Committee, 926
pneumonia, empiric antimicrobial therapy (review article), 1530

Nutrition and malnutrition
in ARDS management, 805
book review
From nutrition support to pharmacologic nutrition in the ICU (Pichard C, Kudsk KA), 428

O

Occupational lung diseases
book review
Occupational disorders of the lung: recognition, management, and prevention (Hendrick DJ et al), 209

Open Forum
abstracts—2004, 1361

Oscillation
high-frequency ventilation, for ARDS, 799

Outcome assessment
exercise test comparison for pulmonary rehabilitation, 1498
noninvasive mechanical ventilation, causes of failure, 295

Outpatients and outpatient care
Transtracheal oxygen: not exactly a ‘novel’ technology (letter), 1354

Oximeters and oximetry
pulse oximetry measurements and blood gas analysis values, disparity between (PFT Corner), 1059
Transcutaneous blood gas monitoring for neonatal & pediatric patients—2004 revision & update (AARC clinical practice guideline), 1069

Oxygen administration and therapy
bi-level ventilators, positive airway pressure, 270
for chronic obstructive pulmonary disease exacerbation, 769
reimbursement issues, 45
demand delivery systems, characteristics, 160
demand valves (editorial), 156
nasal cannula/humidifier devices for high-flow gas therapy, bench evaluation, 902
Transtracheal oxygen: not exactly a ‘novel’ technology (letter), 1354
Oxygen transport, physiologic
Metabolic measurement using indirect calorimetry during mechanical ventilation—2004 revision & update (AARC clinical practice guideline), 1073

Oxyhemoglobin
desaturation following esophagoduodenoscopy, 940

P

Palliative care
for chronic obstructive pulmonary disease, 90, 108

Partial liquid ventilation
for ARDS, 800

Pasteurella infections
community-acquired, from Pasteurella multocida (case report), 1528

Patient education. See Education, patient

Patient positioning
prone, for ARDS
evidence-based practice, 800
with malaria (case report), 282

Patient records. See Medical records

Patient rights
Consumer-directed health care: are consumers ready? (editorial), 1305

Patient satisfaction
durable equipment providers for home respiratory care,
comparative information, 1309

Patient transport
book review
Aeromedical evacuation: management of acute and stabilized patients (Hurd WW, Jernigan JG), 113

PDAs. See Handheld computers

Pediatric respiratory care. See also Neonatal respiratory care
aerosol delivery in ventilated patients, 653
albuterol delivery via metered-dose inhaler with spacer, neonatal model, 1029
Application of continuous positive airway pressure to neonates via nasal prongs, nasopharyngeal tube, or nasal mask—2004 revision & update (AARC clinical practice guideline), 1100
book reviews
Shelter from the storm: caring for a child with a life-threatening condition (Hilden JM et al), 311
Sillwee Wobbert and Wheezing Will in the big game (Robert G), 312
bronchiolitis in infants, 589
high-frequency oscillation for acute chest syndrome, 263
metered-dose inhaler technique, improvement of, for asthma, 600
prone positioning for severe ARDS with malaria (case report), 282

software reviews
Pediatric respiratory emergencies (online education module), 314
Pediatric respiratory examination (CD-ROM) (O’Callaghan C, Stannard W), 312
Transcutaneous blood gas monitoring for neonatal & pediatric patients—2004 revision & update (AARC clinical practice guideline), 1069
for viral bronchiolitis (editorial), 581

Peer review
reasons for rejection of manuscripts, 1246

Perioperative care and complications
hypothermia (editorial), 158

Personal digital assistants (PDAs). See Handheld computers

PPT Corner
disparity between pulse oximetry measurements and blood gas analysis values, 1059

Philip Kittredge Memorial Lecture 2003
Advancing beyond the average: the importance of mentoring in professional achievement, 304

Phosphodiesterase inhibitors
for chronic obstructive pulmonary disease, 66

Physiology. See Anatomy and physiology

Pleural diseases and disorders
book reviews
Pleural disease (Bouros D), 1358
Textbook of pleural diseases (Light RW, Lee YCG), 1257

Pneumonia
acute interstitial, complicating polymyositis (case report), 1515
automated lung sound analysis, 1490
bronchioloalveolar carcinoma vs, 1349
community-acquired, from Pasteurella multocida (case report), 1528
from Cryptococcus neoformans, in patient receiving infliximab (case report), 606
Guidelines for preventing health-care-associated pneumonia, 2003; recommendations of the CDC and the Healthcare Infection Control Practices Advisory Committee, 926
nosocomial, empiric antimicrobial therapy (review article), 1530
ventilator-associated
congenital, concerns about guidelines for preventing (editorial), 891
noninvasive positive-pressure ventilation and, 817

Poisoning and toxicity
chlorine gas inhalation (case report), 291

Polymyositis
with acute interstitial pneumonitis (case report), 1515
Positive end-expiratory pressure (PEEP)
dynamic hyperinflation, determinants in bench model, 1326
high, in abdominal compartment syndrome (case report), 286
in lung-protective ventilation, evidence-based practice, 798

Positive-pressure ventilation. See also Noninvasive pos-
itive-pressure ventilation
bi-level ventilators, oxygen delivery factors, 270

Posters
effective design, 1213
presenting, summarizing, and defending, 1217

Privacy of health information. See Confidentiality

Professional practice
mentoring and professional achievement, 304

Prostacyclins
aerosolized, 640

Prostaglandins
aerosolized, 640

Protocols
blood gas monitoring in mechanical ventilation follow-
ing spontaneous breathing trial, 1316
effectiveness of, 761

Public health
AARC/National Lung Health Education Program partnership (editorial), 584, 587

Public speaking
presenting, summarizing, and defending posters, 1217

Publication. See Writing for publication

PubMed. See MEDLINE

Pulmonary alveolar proteinosis
aerosol administration for, 672

Pulmonary alveoli
instability in ventilator-induced lung injury, 1045
in mechanical ventilation, 1045

Pulmonary edema
cardiogenic, noninvasive positive-pressure ventilation for, 815

Pulmonary embolism
false-positive sputum cytology (case report), 186
pulmonary vein thrombosis with venous stenosis follow-
ing radiofrequency ablation (case report), 1525

Pulmonary function testing
airflow obstruction with dynamic gas trapping, in bone marrow transplantation, 1542
book reviews
Interpretation of pulmonary function tests: a practical guide, 2nd ed (Hyatt RE et al), 538
Manual of pulmonary function testing, 8th ed (Ruppel), 1066
dead-space measurements in acute respiratory distress syndrome (editorial), 1006
exercise test comparison in pulmonary rehabilitation, 1498

Pulmonary hypertension
aerosolized prostacyclins for, 643
book review
Inhalation therapy for pulmonary hypertension: the proceedings of a symposium held at the Annual Congress of the European Respiratory Society, Berlin, September 2001 (Higenbottam T, Emery C), 541

Pulmonary surfactants
aerosol administration, in mechanical ventilation, 671
alveolar mechanics, 1045
replacement therapy, for ARDS, 800

Pulmonary vein
thrombosis with venous stenosis following radiofre-
quency ablation (case report), 1525

Quality of health care
quality-assurance research, 1175
respiratory care in VA hospitals, 907

Radiofrequency ablation
pulmonary vein thrombosis with venous stenosis follow-
ing (case report), 1525

Radiography
book review
Radiology of the chest and related conditions (Wright FW), 848

Rehabilitation, pulmonary
for chronic obstructive pulmonary disease, 28, 105
evidence-based guidelines, 28
evidence-based research, 1498
noninvasive positive-pressure ventilation as exercise adj-
unct, 79
reimbursement for, 32

Reimbursement
for management of sleep-related disorders in COPD, 45
for pulmonary rehabilitation, 32

Research
facilitation of, 1199
literature reviews and selection of references, 1242
PDA applications, 502
presenting, summarizing, and defending posters, 1217
rejection of manuscripts, reasons for, 1246
Research and publication in respiratory care (editorial), 1145

Research methods
case control studies, 1171
computers in intensive care unit, 518
device and equipment evaluation, 1157
framing of hypothesis, 1195
overview, 1149
prospective clinical research, 1165
quality-assurance research, 1175
retrospective studies and chart reviews, 1171
surveys, 1181
Research papers
anatomy of, 1222
design of poster presentations, 1213
effective use of tables and figures, 1233
writing abstracts for presentations, 1206
writing effective discussion, 1238
writing methods section, 1229
Respiration
book review
Mechanics of breathing: pathophysiology, diagnosis, and treatment (Aliverti A et al), 1064
Respiratory care
book review
Egan’s fundamentals of respiratory care, 8th ed (Wilkins RL et al), 684
computers in
conference proceedings, 360, 480
remote patient monitoring, 480
staff training, 489
effectiveness of protocols, 761
research
affecting critical care, 837
clinical, design of, 1165
facilitation of, 1199
methods, overview, 1149
in VA hospitals, appropriateness of, 907
Respiratory Care Journal
rejection of manuscripts, reasons for, 1246
research and publication (editorial), 1145
Respiratory dead space
in acute respiratory distress syndrome
editorial, 1006
prognostic value, 1008
aspiration, in COPD management, 257
Respiratory diseases and disorders
book reviews
Multidisciplinary approaches to breathing pattern disorders (Chaitow L et al), 847
Principles of pulmonary medicine, 4th ed (Weinberger SE), 846
Respiratory disorders and behavioral medicine (Kaptein AA, Creer TL), 1549
Respiratory medicine, 3rd ed (Gibson GJ et al), 206
Respiratory medicine (PDxMD series), 207
20 common problems in respiratory disorders (Hueston WJ), 947
Respiratory failure. See also Acute respiratory failure
in chronic obstructive pulmonary disease
management, evidence-based practice, 766
noninvasive positive-pressure ventilation and, 72
noninvasive positive-pressure ventilation for, evidence-based practice, 810
Respiratory function tests
for bronchiolitis in infants, 589
Respiratory infections
book review
Fast facts-respiratory tract infections, 2nd ed (Read RC, Craven DE), 111
community-acquired pneumonia from Pasteurella multocida (case report), 1528
Respiratory insufficiency
noninvasive mechanical ventilation, causes of failure, 295
Respiratory system
book review
The respiratory system (Davies A, Moores C), 1063
computer simulations, 401
Respiratory therapists
attitudes toward participative decision making, 917
computer-based education, 489
mentoring and professional achievement, 304
pulmonary rehabilitation role, 34
Resuscitation
disposable manual resuscitators, bench evaluation, 1509
Resuscitation and defibrillation in the health care setting—2004 revision & update (AARC clinical practice guideline), 1085
Retinoids
for chronic obstructive pulmonary disease, 67
Retrospective studies
chart reviews, 1171
Rewarming
in accidental hypothermia, 198
S
Severity of illness index
noninvasive mechanical ventilation, causes of failure, 295
Sickle cell disease
acute chest syndrome, high-frequency oscillatory ventilation for, 263
Signs and symptoms, respiratory
computer simulations, 402
Sleep apnea
chronic obstructive pulmonary disease and, 39
Sleep disorders
book review
*An atlas of infant polysomnography* (Crowell DH), 687
in chronic obstructive pulmonary disease, 39, 106
reimbursement issues, 45

Smoking and smoking cessation
book review
*Tobacco dependence and COPD: a state-of-the art series*, 1254
in chronic obstructive pulmonary disease, 104

Software reviews
*Pediatric respiratory emergencies* (online education module), 312
*Pediatric respiratory examination* (CD-ROM)
(O’Callaghan C, Stannard W), 312

SPECT. See Tomography, emission computed

Spirometry
office, AARC/National Lung Health Education Program partnership and (editorial), 584

Sputum
book review
*An atlas of induced sputum: an aid for research and diagnosis* (Djukanovic R, Sterk PJ), 1547
false-positive cytology, in pulmonary infarction (case report), 186

Statistics and study design
chart reviews, 1171
framing of hypothesis, 1195
quality-assurance research, 1175
surveys, 1175
tables and figures in publications, effective use of, 1233

Steroids
for chronic obstructive pulmonary disease exacerbation, 771
inhaled
for asthma management, 785
long-acting beta agonists vs, 786
in ventilated infants and children, 662

Suction and suctioning devices
endotracheal, with chest compression for atelectasis, 896
Nasotracheal suctioning—2004 revision & update (AARC clinical practice guideline), 1080

Surgical procedures
for chronic obstructive pulmonary disease, 53, 106

Surveys and questionnaires
nebulizer use and maintenance by cystic fibrosis patients, 1504
research methods, 1181

Teaching Case of the Month
airflow limitation and dynamic gas trapping in bone marrow transplantation, 1542
bronchioloalveolar carcinoma masquerading as pneumonia, 1349
methemoglobinemia following esophagoduodenoscopy, 940
tracheal bronchus, 1056

Telemedicine. See Information technology

Terminal care
for chronic obstructive pulmonary disease, 90

Thoracic injuries
book review
*Thoracic trauma and critical care* (Karmy-Jones R et al), 113

Tidal volume
disposable manual resuscitators, bench evaluation, 1509
low, in lung-protective ventilation, 794
pulmonary dead-space fraction, prognostic value in acute respiratory distress syndrome, 1008

Tomography, emission computed
human lung boundary, computer model, 180

Tracheobronchitis
aerosolized antibiotics for, 636

Transportation of patients
book review
*Aeromedical evacuation: management of acute and stabilized patients* (Hurd WW, Jernigan JG), 113

Treatment outcome
to body mass index and noninvasive positive-pressure ventilation in acute respiratory failure, 1320

Tuberculosis
book review
*Tuberculosis*, 2nd ed (Rom WN, Garay SM), 1067

Tubes, endotracheal
dotracheal tube cuff inflators, laboratory evaluation, 166

Tumor necrosis factor inhibitors
pneumonia from *Cryptococcus neoformans* and (case report), 606

Tuolene
pulmonary hyperinflation and respiratory distress following solvent aspiration (case report), 1335

Vasodilators
for chronic obstructive pulmonary disease, 66

Venous stenosis
pulmonary vein thrombosis with venous stenosis following radiofrequency ablation (case report), 1525

Ventilation
partial liquid, for ARDS, 800

Veterans Affairs (VA) hospitals
appropriateness of respiratory care, 907
Vibration, chest wall
pulmonary hyperinflation and respiratory distress following solvent aspiration (case report), 1335

Video reviews
Success in ACLS: essential skills, 3rd ed (Tait C), 425

Walking
exercise test comparison for pulmonary rehabilitation, 1498

Weaning from ventilatory support
blood gas monitoring following spontaneous breathing trial, 1316
in chronic obstructive pulmonary disease exacerbation, 775
evidence-based practice, 830
helmet noninvasive ventilation for (case report), 1035
noninvasive positive-pressure ventilation and, 816

Web site reviews
AccessMedicine.com, 1360
Pediatric respiratory emergencies (online education module), 312

Work of breathing
ventilator modes, evidence base for, 742

World Wide Web. See Internet

Writing for publication
case reports, 1186
effective discussions, 1238
literature reviews, 1242
methods section of research papers, 1229
pitfalls of, 1190
poster presentations, 1213
publications, citations, and impact factors of critical care investigators, 276
rejection of manuscripts, reasons for, 1246
research abstracts for presentations, 1206
research and publication (editorial), 1145
research papers, anatomy of, 1222
tables and figures, 1233

Zoonosis
community-acquired pneumonia from Pasteurella multocida (case report), 1528
pneumonia from Cryptococcus neoformans, possible transmission from cockatiel (case report), 606