
Subject Index to Volume 52 (2007)

1-112 JAN
113-224 FEB
225-368 MAR

369-512 APR
513-672 MAY
673-784 JUN

785-944 JUL
945-1096 AUG
1097-1256 SEP

1257-1416 OCT
1417-1656 NOV
1657-1832 DEC

A

Acute respiratory distress syndrome (ARDS)

adaptive pressure control ventilation for, 478, 640
ARDS Network PEEP/F_{IO₂} tables as best evidence for managing, 461, 639
feedback and education in adoption of lower tidal volume ventilation, 1761
high-frequency vs conventional ventilation for, pros and cons, 595
lung recruitment maneuvers for, 622, 643
partial CO₂ rebreathing for functional residual capacity measurement, 1480
prognostic value of leukotriene B₄ in, 1695
spontaneous breathing pattern and work of breathing in, 989
tidal volume pressure in mechanical ventilation, 556, 641

Advance directives

end-of-life decision making in amyotrophic lateral sclerosis, 996

Aerosols and aerosol administration

antibiotics for ventilator-associated pneumonia, 416, 637, 866
book review
Inhalation aerosols: physical and biological basis for therapy, 2nd ed (Hickey AJ), 1238
Bye-bye, blow-by (editorial), 981
corticosteroids for obstructive airway disease, 852
electrostatic charges influencing medication delivery in metered-dose inhalers and add-on devices, 283
face mask design and inhaled mass of nebulized albuterol, pediatric breathing model, 1021
heliox in mechanical ventilation and, 582, 642
iloprost
for critically ill patients, 1507

delivery with HaloLite, Prodose, and I-neb systems, in vitro comparisons, 184
insulin, clinical pharmacology, 911
interfaces connecting HandiHaler and Aerolizer powder inhalers to tracheostomy tube, 166, 1782
opioids and furosemide for dyspnea, 900

Aging

mucociliary clearance and, 1362

Air pollution

book review

Air, the environment, and public health (Kessel AS), 70

Airway clearance. See Mucociliary clearance

Airway obstruction

airway stents for respiratory failure from central airway collapse, 752
congenital, mucociliary clearance in children with, 1382
endotracheal cuff deflation in high-frequency percussive ventilation, corrective measures, 271
PEP bottle vs PEP mask and, 1000

Airway pressure

PEP bottle vs PEP mask and, 1000

Airway pressure-release ventilation

pros and cons, 452, 639

Albuterol

bronchodilators in ventilated patients without obstructive lung disease, 154
face mask design and inhaled mass, pediatric breathing model, 1021
inhaled, pharmacology, 820
mucociliary clearance and, 1159

American Association for Respiratory Care

OPEN FORUM abstracts—2007, 1549

Amyotrophic lateral sclerosis

end-of-life decision making in, 996

Animal models

- partial CO₂ rebreathing for functional residual capacity measurement in acute lung injury, 1480
- physiologic variables in ventilator-induced lung injury, 31

Antibiotics. *See* Antimicrobials

Anticholinergic drugs

- mucociliary clearance and, 1159
- for obstructive airway disease, 833

Antimicrobials, aerosolized

- in ICU patients without cystic fibrosis, 416, 637
- for ventilator-associated pneumonia, 866

Antimuscarinics

- for obstructive airway disease, 833

ARDS. *See* Acute respiratory distress syndrome (ARDS)

Aspergillosis, pulmonary

- with bronchopulmonary fistula in lung transplant recipient, 1542
- chronic necrotizing, massive fatal hemoptysis in (case report), 56

Asthma

- book reviews
 - Bronchial asthma: a guide for practical understanding and treatment*, 5th ed (Gershwin ME, Albertson TE), 491
 - Bronchial vascular remodeling in asthma and COPD* (Lazaar A), 1052
 - Childhood asthma* (Szeffler SJ, Pedersen S), 492
 - Exacerbations of asthma* (Johnston SL, O'Byrne PM), 1240
 - Genetics of asthma and chronic obstructive pulmonary disease* (Postma DS, Weiss ST), 1239
- correlation of spirometry and symptom scores in children, 1744
- emergency extracorporeal life support for status asthmaticus (case report), 1525
- heliox in mechanical ventilation for, 582, 642
- inhaled anticholinergics for, 833
- inhaled corticosteroids for, 852
- long-acting β_2 adrenergic drugs for, 820
- mucoactive agents for, 1176
- mucus hypersecretion in, 1134
- mucus transport in, 1150
- severe, mechanical ventilation for (editorial), 1460
- sudden-onset vs slower-onset exacerbations, clinical features, 1013

Attitude of health personnel

- about ventilator-associated pneumonia prevention, 1687

Auscultation

- breath sounds distribution images in pneumonia and pleural effusion, 1753

Autogenic drainage

- for mucociliary clearance, 1210

Avian influenza

- book review
 - Bird flu: diagnosis and treatment* (Dawra S), 493

B

Bacterial infections

- bacterial growth in nebulizers of children with cystic fibrosis, 258

β_2 adrenergic drugs. *See* Beta agonists

Bench evaluations

- heated passover humidifier in noninvasive ventilation, 38
- partial CO₂ rebreathing for functional residual capacity measurement in acute lung injury, 1480
- transport ventilators
 - Oxylog 300 and Elisée, ventilator-user interface comparison, 1701
 - performance comparison, 740
- Vortran Automatic Resuscitator, 1718

Beta agonists

- inhaled, 820
- mucociliary clearance and, 1159

Bioterrorism

- book review
 - Handbook of bioterrorism and disaster medicine* (Antosia RE, Cahill JD), 1546

Blood gas monitoring

- carboxyhemoglobin levels and carbon monoxide diffusion capacity, 1741
- controlled vs assisted NPPV for chronic respiratory failure in COPD, 1734
- ear vs finger as site for pulse oximeter sensor, 727
- transcutaneous O₂ and CO₂ tensions vs arterial blood gases in normal subjects, 1490

Book reviews

- 100 chest X-ray problems* (Corne J, Pointon K), 1398
- Air, the environment, and public health* (Kessel AS), 70
- Bird flu: diagnosis and treatment* (Dawra S), 493
- Bronchial asthma: a guide for practical understanding and treatment*, 5th ed (Gershwin ME, Albertson TE), 491
- Bronchial vascular remodeling in asthma and COPD* (Lazaar A), 1052
- Childhood asthma* (Szeffler SJ, Pedersen S), 492
- Clinical atlas of interstitial lung disease* (Peroš-Golubčić T, Sharma OP), 1784
- Clinical critical care medicine* (Albert RK et al), 924
- Clinical evaluation of medical devices: principles and case studies*, 2nd ed (Becker KM, Whyte JJ), 489
- Clinical manifestations and assessment of respiratory disease*, 5th ed (Des Jardins T, Burton GG), 205
- Clinician's guide to pediatric sleep disorders* (Richardson MA, Friedman NR), 1786
- Clinician's guide to sleep disorders* (Watson NF, Vaughn BV), 765

- Crash course: respiratory system* (Myers A), 203
- Critical care medicine: the essentials*, 3rd ed (Marini JJ, Wheeler AP), 344
- Disorders of the respiratory tract: common challenges in primary care* (Mintz), 201
- Exacerbations of asthma* (Johnston SL, O'Byrne PM), 1240
- Genetics of asthma and chronic obstructive pulmonary disease* (Postma DS, Weiss ST), 1239
- Handbook of bioterrorism and disaster medicine* (Antosia RE, Cahill JD), 1546
- The handbook of critical care drug therapy*, 3rd ed (Susla GM et al), 1547
- Handbook of ICU therapy*, 2nd ed (McConachie I), 345
- Handbook of sleep medicine* (Avidan AY, Zee PC), 766
- High-resolution computed tomography of the lungs: a pattern approach* (Karthikeyan D), 69
- High-yield lung* (Dudek RW), 204
- Human respiration: anatomy and physiology, mathematical modeling, numerical simulation, and applications* (Kulish V), 650
- IASLC textbook of prevention and detection of early lung cancer* (Hirsch FR et al), 69
- Imaging of diseases of the chest*, 4th ed (Hansell DM et al), 67
- Imaging of pulmonary infections* (Müller NL et al), 1399
- Inhalation aerosols: physical and biological basis for therapy*, 2nd ed (Hickey AJ), 1238
- Intensive care medicine in 10 years* (Fink MP et al), 347
- Lung and heart-lung transplantation* (Lynch JP III, Ross DJ), 1051
- Lung function: physiology, measurement, and application in medicine*, 6th ed (Cotes JE et al), 648
- Malignant pleural mesothelioma* (O'Byrne K, Rusch V), 1055
- Mechanical ventilation: physiological and clinical applications*, 4th ed (Pilbeam SP, Cairo JM), 347
- My office is killing me! The Sick building survival guide* (May JC), 1052
- Oakes' respiratory home care: an on-site reference guide* (Oakes DF et al), 66
- Pediatric critical care medicine* (Slonim AD, Pollack MM), 346
- Practical pulmonary and critical care medicine: respiratory failure. Practical pulmonary and critical care medicine: disease management* (2 vol. set) (Mosienifar Z, Soo Hoo GW), 200
- Primary care sleep medicine: a practical guide* (Pagel JF, Pandi-Perumal SR), 1785
- Principles and practice of mechanical ventilation*, 2nd ed (Tobin MJ), 923
- Principles and practice of sleep medicine*, 4th ed (Kryger MH et al), 763
- Pulmonary medicine review*, 2nd ed (Zevitz M, Lenhardt R), 202
- Radiology of chest diseases*, 3rd ed (Lange S, Walsh G), 1397
- Reichman and Hershfield's Tuberculosis: a comprehensive international approach*, 3rd ed (Raviglione MC), 926
- Respiratory care* (Francis C), 646
- Respiratory disease: a case study approach to patient care*, 3rd ed (Wilkins RL et al), 645
- The respiratory system at a glance*, 2nd ed (Ward JPT et al), 647
- Sarcoidosis* (Baughman RP), 492
- Sleep: a comprehensive handbook* (Lee-Chiong TL), 764
- Sleep apnea: current diagnosis and treatment* (Randerath WJ et al), 767
- Study design and statistical analysis: a practical guide for clinicians* (Katz MH), 490
- Tropical lung disease*, 2nd ed (Sharma OP), 72
- Tuberculosis & nontuberculous mycobacterial infections*, 5th ed (Schlossberg D), 926
- Ventilator-induced lung injury* (Dreyfuss D et al), 348
- The Washington manual pulmonary medicine subspecialty consult* (Shifren A), 648
- Breathing, spontaneous**
 airway pressure-release ventilation and, 452
 patterns and work of breathing in ARDS and acute lung injury, 989
 predicting extubation failure after successful spontaneous breathing trial, 1710
- Breathing trials.** *See* **Pulmonary function testing**
- Breath sounds**
 distribution images in pneumonia and pleural effusion, 1753
- Bronchial diseases**
 positive expiratory pressure therapies for, 1308
- Bronchiolitis**
 airway clearance in children, 1382
- Bronchoalveolar lavage**
 computer simulation vs traditional training methods for competency assessment, 263
- Bronchodilators, bronchodilatation, and bronchodilator administration**
 bacterial growth in nebulizers of children with cystic fibrosis, 258
 bronchodilators in ventilated patients without obstructive lung disease, 154
 bronchodilator therapy in mechanical ventilation: patient selection and clinical outcomes (editorial), 152
 inhaled anticholinergics for obstructive airway disease, 833
 inhaled beta agonists, 820
 mucociliary clearance and, 1159
- Bronchopulmonary fistula**
 with fatal hemoptysis caused by anastomotic bronchial aspergillus infection in lung transplant recipient, 1542

Bronchoscopy

- bronchoscopy assisting—2007 revision & update (AARC clinical practice guideline), 74
- virtual, for stridor workup in subglottic stenosis diagnosis, 337

C

Calcium channel blockers

- pulmonary vasodilation and, 885

Capnography and capnometry

- carboxyhemoglobin levels and carbon monoxide diffusion capacity, 1741
- continuous monitoring in mechanical ventilation in ICU, 423, 638
- partial CO₂ rebreathing for functional residual capacity measurement in acute lung injury, 1480
- Transcutaneous and end-tidal capnometry (letter), 340

Carbon dioxide

- transcutaneous vs arterial CO₂ measurements in hyperbaric environment, normal subjects, 1490

Carbon monoxide

- diffusion capacity adjustment and carboxyhemoglobin level measurement, 1741

Carboxyhemoglobin

- noninvasive measurement for adjusting carbon monoxide diffusion capacity, 1741

Cardiac arrest

- therapeutic hypothermia following, pros and cons, 443, 638

Cardiovascular system

- book review
 - Bronchial vascular remodeling in asthma and COPD* (Lazaar A), 1052
- physiology and continuous capnography monitoring in mechanically ventilated ICU patients, 423

Caregivers

- education and home discharge of technology-dependent children, 171

Case reports

- acute unilateral pneumonitis in polymyositis, 1774
- bronchopulmonary fistula with fatal massive hemoptysis from anastomotic bronchial aspergillosis, 1542
- bronchus-associated lymphoid tissue lymphoma with *mycobacterium tuberculosis* infection, 755
- emergency extracorporeal life support for status asthmaticus, 1525
- hard metal pneumoconiosis, 196
- hypoxemia from high-frequency chest wall compression in child with cerebral palsy, 1027
- massive hemoptysis in chronic necrotizing pulmonary aspergillosis, 56
- Pneumocystis jiroveci* pneumonia, 59

- respiratory failure from expiratory central airway collapse, 752
- tracheal rupture causing subcutaneous emphysema, 191
- tracheomalacia in adult with respiratory failure and Morquio syndrome, 278
- trichoptysis from intrapulmonary teratoma, 1779
- virtual bronchoscopy for stridor workup in subglottic stenosis diagnosis, 337

Cerebral palsy

- airway clearance in children, 1382
- high frequency chest compression and hypoxemia in child with (case report), 1027

Chest compression, high frequency

- causing hypoxemia in child with cerebral palsy (case report), 1027
- conventional chest physical therapy vs, 1202
- for mucociliary clearance, 1224
- for mucociliary clearance in elderly or neuromuscular disorders, 1362
- for secretion clearance (editorial), 982

Chest imaging

- book reviews
 - 100 chest X-ray problems* (Corne J, Pointon K), 1398
 - Imaging of diseases of the chest*, 4th ed (Hansell DM et al), 67
 - Imaging of pulmonary infections* (Müller NL et al), 1399
 - Radiology of chest diseases*, 3rd ed (Lange S, Walsh G), 1397
- breath sounds distribution images in pneumonia and pleural effusion, 1753

Chest physical therapy

- conventional, for obstructive lung disease, 1198
- forced expiratory technique, directed cough, and autogenic drainage in, 1210
- for mucociliary clearance in elderly or neuromuscular disorders, 1362
- for secretion management in mechanical ventilation, 1328

Chest wall oscillation. *See* Chest compression, high frequency

Children

- bacterial growth in nebulizers of children with cystic fibrosis, 258
- correlation of spirometry and symptom scores in asthma, 1744
- home discharge of technology-dependent children, family education, 171
- hypoxemia from high-frequency chest wall compression cerebral palsy (case report), 1027
- mucociliary clearance in, 1382

Chronic obstructive pulmonary disease (COPD)

- book reviews
 - Bronchial vascular remodeling in asthma and COPD* (Lazaar A), 1052

- Genetics of asthma and chronic obstructive pulmonary disease* (Postma DS, Weiss ST), 1239
- controlled vs assisted NPPV for chronic respiratory failure, 1734
- heliox in mechanical ventilation, 582, 642
- home care for, 710
- inhaled adrenergics and anticholinergics for, 1159
- inhaled anticholinergics for, 833
- inhaled corticosteroids for, 852
- long-acting β_2 adrenergic drugs for, 820
- mechanical insufflation-exsufflation for airway clearance, 1296
- mucoactive agents for, 1176
- mucus hypersecretion in, 1134
- mucus transport in, 1150
- NPPV for, 568, 641
- tracheal rupture following difficult intubation, causing subcutaneous emphysema in (case report), 191
- Classification systems**
 - for ventilator modes, proposal for, 301
- Clinical practice guidelines.** *See* **Guidelines, recommendations, and statements**
- Clinical trials**
 - airway pressure-release ventilation, 452
 - ARDS Network PEEP/ F_{IO_2} tables as best evidence for management of ARDS and acute lung injury, 461
 - design of, for mucociliary clearance therapy evaluation, 1348
 - ethics in critical care, 408
- Combination therapy**
 - for pulmonary vasodilation, 885
- Compliance, lung**
 - spontaneous breathing pattern and work of breathing in ARDS and acute lung injury, 989
- Computed tomography.** *See* **Tomography, emission computed**
- Computer simulation**
 - traditional training methods vs, for bronchoalveolar lavage competency assessment, 263
- Computer software**
 - wireless on-demand and networking for direct capture of ventilator data, 1530
- Conference proceedings**
 - airway clearance
 - bronchial mucus transport, 1150
 - chest physical therapy for obstructive lung disease, 1198
 - designing clinical trials to evaluate mucus clearance therapies, 1348
 - in elderly and in neurologic or neuromuscular disorders, 1362
 - forced expiratory technique, directed cough, and autogenic drainage, 1210
 - foreword, 1132
 - high-frequency assisted techniques for, 1224
 - in infants and children, 1382
 - inhaled adrenergics and anticholinergics for obstructive lung diseases, 1159
 - mechanical insufflation-exsufflation for, 1296
 - mucoactive agents for mucus hypersecretory diseases, 1176
 - mucus secretion pathophysiology, 1134
 - positive expiratory pressure and oscillatory PEP therapies in, 1308
 - secretion management in mechanical ventilation, 1328
 - summary, 1132
 - clinical respiratory pharmacology (New Horizons symposium)
 - aerosolized antimicrobials for ventilator-associated pneumonia, 866
 - foreword, 819
 - inhaled anticholinergics in obstructive airway disease, 833
 - inhaled beta agonists, 820
 - inhaled corticosteroids in obstructive airway disease, 852
 - inhaled insulin, 911
 - inhaled opioids and furosemide for dyspnea, 900
 - mucolytics, expectorants, and mucokinetic medications, 859
 - pulmonary vasodilators, 885
 - critical care, respiratory controversies
 - adaptive pressure control modes in mechanical ventilation, 478
 - aerosolized antibiotics for ventilator-associated pneumonia without cystic fibrosis, 416
 - airway pressure-release ventilation, 452
 - ARDS Network PEEP/ F_{IO_2} tables as best evidence for management of ARDS and acute lung injury, 461
 - continuous capnography monitoring in mechanical ventilation, 423
 - foreword, 406
 - heliox for mechanically ventilated patients, 582
 - high-frequency vs conventional ventilation in ARDS, 595
 - lung recruitment maneuvers for managing acute lung injury and ARDS, 622
 - noninvasive positive-pressure ventilation in acute respiratory failure, 568
 - proven vs unproven approaches, 408
 - summary, 636
 - therapeutic hypothermia following cardiac arrest, 443
 - tidal volume settings in acute respiratory failure, 556
 - weaning protocols for mechanical ventilation, 609
- Corticosteroids.** *See* **Steroids**
- Cough**
 - directed
 - in chest physical therapy, 1201
 - for mucociliary clearance, 1210
 - efficiency in airway clearance, 1296

mucociliary clearance in elderly or neuromuscular impairment, 1362
 neuromuscular dysfunction in mucus transport, 1153
 strength of, predicting extubation failure after successful spontaneous breathing trial, 1710

Critical care. *See* **Intensive care**

Cuffs, tracheal tube

deflation and compromised oxygen delivery in high-frequency percussive ventilation, 271
 deflation and pulsatile tidal volume, pressure amplitude and gas flow during high-frequency percussive ventilation, 45

Customer satisfaction

family education for home discharge of technology-dependent children, 171

Cystic fibrosis

airway clearance in children, 1382
 airway mucus hypersecretion in, 1134
 bacterial growth in children's nebulizers, 258
 mucoactive agents for, 1176
 mucoactive medications for, 859
 mucus transport in, 1150
 positive expiratory pressure therapies for, 1308

D

Databases

RESPIRATORY CARE inclusion in, 1680

Data collection

information management and processing in respiratory care departments, 730
 wireless on-demand and networking for direct capture of ventilator data, 1530

Decision making

end-of-life, in amyotrophic lateral sclerosis, 996
 information management and processing in respiratory care departments, 730

Diabetes

inhaled insulin for, clinical pharmacology, 911

Diagnosis, differential

chronic necrotizing pulmonary aspergillosis (case report), 56
 tracheal rupture vs barotrauma following difficult intubation (case report), 191

Difficult intubation

NPPV as alternative in tracheotomy during advanced neuromuscular disease, 1728
 tracheal rupture causing subcutaneous emphysema and (case report), 191

Disaster preparedness

book review
Handbook of bioterrorism and disaster medicine (Antosia RE, Cahill JD), 1546

Vortran Automatic Resuscitator, laboratory evaluation of, 1718

Discharge planning

for technology-dependent children, family education, 171

Distance education

educational technology and distance learning in respiratory care, 1510

Dornase alfa

for airway mucus hypersecretory diseases, 1176

Drugs and drug therapy. *See also specific drug names*
 book review

The handbook of critical care drug therapy, 3rd ed (Susla GM et al), 1547

clinical respiratory pharmacology, New Horizons symposium, 819

iloprost delivery with HaloLite, Prodose, and I-neb aerosol systems, in vitro comparisons, 184

investigational, in critical care, 408, 637

mucoactive agents for hypersecretory disorders, 1176

Dry powder inhalers

interfaces connecting HandiHaler and Aerolizer powder inhalers to tracheostomy tube, 166, 1782

Dyspnea

inhaled opioids and furosemide for, 900

E

Editorials

Adherence to evidence-based recommendations for prevention of ventilator-associated pneumonia: the survey says. . ., 1678

Bronchodilator therapy in mechanically ventilated patients: patient selection and clinical outcomes, 152

Bye-bye, blow-by, 981

Change of the guard at RESPIRATORY CARE: thanks to Dr Pierson and welcome to Dr Hess, 1686

High-frequency external chest wall compression for secretion clearance: shake it, but don't break it, 982

Hospital at home: the right place for the right patient, 710

Humidification and noninvasive ventilation, 24

Mechanical ventilation for severe asthma, 1460

The mystique of direct laryngoscopy, 21

Nebulizer efficiency: modeling versus in vitro testing, 984

Noninvasive positive-pressure ventilation: a silver bullet for extubation failure? 1454

Noninvasive positive-pressure ventilation in postoperative hypoxemic respiratory failure—with a helmet? 1451

Problem-based learning: any influence in respiratory care? 1457

Respiratory care: a decade of challenge and progress, 1680

Education, continuing

CRCE through the Journal—2007, 1069, 1400
educational technology and distance learning in respiratory care, 1510

Education and training

adoption of lower tidal volume ventilation and, 1761
computer simulation vs traditional training methods for bronchoalveolar lavage competency assessment, 263
educational technology and distance learning in respiratory care, 1510
Problem-based learning: any influence in respiratory care? (editorial), 1457
problem-based learning vs traditional curricula in respiratory therapy education, 1497

Eicosanoids

prognostic value in ARDS, 1695

Elderly

mucociliary clearance and aging, 1362

Electrostatic charges

influencing medication delivery in metered-dose inhalers and add-on devices, 283

Emphysema

subcutaneous, from tracheal rupture following difficult intubation (case report), 191

End-tidal CO₂. See Carbon dioxide

Environmental health

book reviews
Air, the environment, and public health (Kessel AS), 70
My office is killing me! The Sick building survival guide (May JC), 1052

Equipment and supplies

book review
Clinical evaluation of medical devices: principles and case studies, 2nd ed (Becker KM, Whyte JJ), 489
helmet vs face mask for NPPV in postoperative respiratory failure, 1451, 1463
Oxylog 300 and Elisée compact transport ventilators, evaluation of ventilator-user interface, 1701
Vortran Automatic Resuscitator, laboratory evaluation, 1718

Ethics, medical

unproven strategies in critical care, 408, 637

Evidence-based practice

ARDS Network PEEP/F_{io₂} tables for management of ARDS and acute lung injury, 461, 639
attitudes of respiratory therapists and nurses about ventilator-associated pneumonia preventive measures, 1687
for prevention of ventilator-associated pneumonia (editorial), 1678
unproven strategies in critical care, 408
weaning protocols, pros and cons, 609, 642
What to do when protocols fail (Kittredge Lecture), 324

Exercise testing

lung resection effects on pulmonary function in lung cancer, 720

Exocytosis

goblet cell, 1139

Expectorants

clinical pharmacology, 859
mucoactive agents, 1176

Extracorporeal membrane oxygenation

emergency life support for status asthmaticus (case report), 1525

Extubation

NPPV role in post-extubation respiratory failure, 1454, 1472
predicting failure after successful spontaneous breathing trial, 1710
removal of the endotracheal tube—2007 revision & update (AARC clinical practice guideline), 81

F

Face masks

design and inhaled albuterol mass, pediatric breathing model, 1021
helmet vs, for NPPV in postoperative respiratory failure, 1451, 1463

Feedback

education and, in lower tidal volume ventilation, 1761

Fenoterol

mucociliary clearance and, 1159

Flow-volume curves

correlation with symptom scores in childhood asthma, 1744

Forced expiratory volume

lung resection effects on functional exercise capacity in lung cancer, 720

Force expiratory technique

for mucociliary clearance, 1210

Formoterol

inhaled, pharmacology, 820
mucociliary clearance and, 1159

Fraction of inspired oxygen (F_{io₂})

ARDS Network PEEP/F_{io₂} tables for management of ARDS and acute lung injury, 461, 639
endotracheal cuff deflation and, in high-frequency percussive ventilation, 271
transport ventilators, performance comparison, 740

Functional residual capacity

measurement with partial CO₂ rebreathing in acute lung injury, 1480

Furosemide

inhaled, for dyspnea, 900

G

Genetics

- book review
 - Genetics of asthma and chronic obstructive pulmonary disease* (Postma DS, Weiss ST), 1239
- mucin, 1136

Glycopyrrrolate

- mucociliary clearance and, 1159

Goblet cells

- exocytosis mechanisms, 1139

Guidelines, recommendations, and statements

- attitudes of respiratory therapists and nurses about ventilator-associated pneumonia preventive measures, 1687
- bronchoscopy assisting—2007 revision & update, 74
- long-term invasive mechanical ventilation in the home, 2007 revision & update, 1056
- oxygen therapy in home or alternate site health care facility, 2007 revision & update, 1063
- removal of endotracheal tube—2007 revision & update, 81
- respiratory care plans from different hospitals using, comparative study, 1006
- weaning protocols vs, 609
- What to do when protocols fail (Kittredge Lecture), 324

H

Heat and moisture exchangers

- in secretion management in mechanical ventilation, 1328

Helium-oxygen gas mixture

- in mechanical ventilation, pros and cons, 582, 642

Hemoptysis

- bronchopulmonary fistula with, in anastomotic bronchial aspergillosis, 1542
- in chronic necrotizing pulmonary aspergillosis (case report), 56

Hepatopulmonary syndrome

- pathophysiology and treatment, 1030

High-frequency jet ventilation

- PEEP settings replicating mean airway pressure of oscillatory ventilation, 50

High-frequency oscillation

- mean airway pressure in, high-frequency jet ventilation
- PEEP settings replicating, 50

High-frequency ventilation

- oscillatory vs conventional ventilation for ARDS, 595
- percussive
 - correction of compromised oxygen delivery during endotracheal tube cuff deflation, 271
 - intrapulmonary, for airway clearance, 1224
 - pulsatile tidal volume, pressure amplitude and gas flow during, 45

Home care

- book review
 - Oakes' respiratory home care: an on-site reference guide* (Oakes DF et al), 66
- home discharge of technology-dependent children, family education, 171
- hospital-at-home care (editorial), 710
- long-term invasive mechanical ventilation—2007 revision & update (AARC clinical practice guideline), 1056
- oxygen therapy—2007 revision & update (AARC clinical practice guideline), 1063
- for respiratory infection in mechanically ventilated kyphoscoliosis patients, 713

Hospital information systems

- respiratory care information in, 730

Hospitalization

- sudden-onset vs slower-onset asthma exacerbations, clinical features, 1013

Humidifiers and humidification

- heated passover humidifier in noninvasive ventilation, bench study, 38
- in noninvasive ventilation (editorial), 24
- secretion management in mechanical ventilation and, 1328

Hyperbaric oxygenation

- transcutaneous O₂ and CO₂ tensions vs arterial blood gases in normal subjects, 1490

Hypercapnia and hypercarbia

- mechanical ventilation for severe asthma and (editorial), 1460
- predicting extubation failure after successful spontaneous breathing trial, 1710

Hypothermia

- therapeutic, following cardiac arrest, pros and cons, 443, 638

Hypoxemia and hypoxia

- high-frequency chest wall compression causing, in child with cerebral palsy (case report), 1027

I

Iloprost

- aerosolized, for critically ill patients, 1507
- delivery with HaloLite, Prodose, and I-neb aerosol systems, in vitro comparisons, 184

Infants

- mucociliary clearance in, 1382

Infections and infection control

- attitudes of respiratory therapists and nurses about ventilator-associated pneumonia preventive measures, 1687

Influenza

- book review
 - Bird flu: diagnosis and treatment* (Dawra S), 493

Information technology

- educational technology and distance learning in respiratory care, 1510
- information management and processing in respiratory care departments, 730
- wireless on-demand and networking for direct capture of ventilator data, 1530

Informed consent

- for unproven strategies in critical care, 408, 637

Inhalation devices

- for corticosteroids in obstructive airway disease, 852
- interfaces connecting HandiHaler and Aerolizer powder inhalers to tracheostomy tube, 166, 1782

Inspiratory pressure

- imposed power of breathing with impedance threshold device, 177

Insufflation-exsufflation, mechanical

- for mucociliary clearance, 1296
- for secretion management in mechanical ventilation, 1328

Insulin

- inhaled, clinical pharmacology, 911

Intensive care

- aerosolized antibiotics for ventilator-associated pneumonia without cystic fibrosis, 416, 637
- airway pressure-release ventilation in, 452, 639
- ARDS Network PEEP/F_{IO₂} tables as best evidence for management of ARDS and acute lung injury, 461, 639
- book reviews
 - Clinical critical care medicine* (Albert RK et al), 924
 - Critical care medicine: the essentials*, 3rd ed (Marini JJ, Wheeler AP), 344
 - The handbook of critical care drug therapy*, 3rd ed (Susla GM et al), 1547
 - Handbook of ICU therapy*, 2nd ed (McConachie I), 345
 - Intensive care medicine in 10 years* (Fink MP et al), 347
 - Pediatric critical care medicine* (Slonim AD, Pollack MM), 346
- conference proceedings, 406, 556
- continuous capnography monitoring in mechanical ventilation, 423, 638
- NPPV in acute respiratory failure, 568, 641
- proven vs unproven approaches in critical care, 408, 637
- therapeutic hypothermia following cardiac arrest, pros and cons, 443, 638
- tracheal intubation by pulmonary physicians in ICU, 26

Interstitial lung disease

- book review
 - Clinical atlas of interstitial lung disease* (Peroš-Golubčić T, Sharma OP), 1784
- giant-cell pneumonitis from hard metal pneumoconiosis, 196

Intubation. See also Difficult intubation

- continuous capnography monitoring in ICU and, 423
- direct laryngoscopy (editorial), 21
- endotracheal
 - management by pulmonary physicians in ICU, 26
 - NPPV as alternative in tracheotomy during advanced neuromuscular disease, 1728

Ipratropium bromide

- bronchodilators in ventilated patients without obstructive lung disease, 154
- inhaled, for obstructive airway disease, 833
- mucociliary clearance and, 1159

K

Kittredge Lecture. See Philip Kittredge Memorial Lecture

Kyphoscoliosis

- home care for, 710
- home care for respiratory infection in mechanical ventilation, 713

L

Laryngoscopy

- direct (editorial), 21

Learning

- problem-based learning vs traditional curricula in respiratory therapy education, 1497

Letters to the editor

- Beware the adapters, 1782
- The mixed venous oxygen saturation response to weaning from mechanical ventilation, 64
- Spirometer calibration check procedures, 341
- Transcutaneous and end-tidal capnometry, 340

Leukotriene B₄

- prognostic value in ARDS, 1695

Levalbuterol

- inhaled, pharmacology, 820
- mucociliary clearance and, 1159

Liver diseases and disorders

- respiratory dysfunction and pulmonary disease in, 1030

Lobectomy

- effects on pulmonary function and exercise capacity in lung cancer, 720

Long-term care

- oxygen therapy in alternate site health care facilities—2007 revision & update (AARC clinical practice guideline), 1063

Lung cancer

- book review
 - IASLC textbook of prevention and detection of early lung cancer* (Hirsch FR et al), 69

bronchus-associated lymphoid tissue lymphoma, with *Mycobacterium tuberculosis* infection (case report), 755
lung resection effects on pulmonary function and exercise capacity, 720

Lung diseases and disorders

book reviews

High-yield lung (Dudek RW), 204
Imaging of pulmonary infections (Müller NL et al), 1399
Lung function: physiology, measurement, and application in medicine, 6th ed (Cotes JE et al), 648
Practical pulmonary and critical care medicine: respiratory failure. Practical pulmonary and critical care medicine: disease management (2 vol. set) (Mosenifar Z, Soo Hoo GW), 200
Pulmonary medicine review, 2nd ed (Zevitz M, Lenhardt R), 202
Tropical lung disease, 2nd ed (Sharma OP), 72
The Washington manual pulmonary medicine subspecialty consult (Shifren A), 648

obstructive

chest physical therapy for, 1198
inhaled adrenergics and anticholinergics for, 1159

Lung injury

acute

adaptive pressure control ventilation for, 478, 640
ARDS Network PEEP/F_{IO₂} tables as best evidence for management of, 461, 639
feedback and education in adoption of lower tidal volume ventilation, 1761
partial CO₂ rebreathing for functional residual capacity measurement in acute lung injury, 1480
recruitment maneuvers for managing, 622, 643
spontaneous breathing pattern and work of breathing in, 989
tidal volume pressure in mechanical ventilation, 556, 641

ventilator-associated

airway pressure-release ventilation and, 452
time course of physiologic variables in, 31
Ventilator-induced lung injury (Dreyfuss D et al) (book review), 348

Lung mechanics

tidal volume and mechanical ventilation in acute respiratory failure, 556, 641

Lung transplantation

book review

Lung and heart-lung transplantation (Lynch JP III, Ross DJ), 1051
bronchopulmonary fistula with fatal hemoptysis from aspergillus infection in, 1542

Lymphoma

bronchus-associated lymphoid tissue, with *Mycobacterium tuberculosis* infection (case report), 755

M

Materials testing

nebulizer performance model, 1037

Maximum expiratory flow-volume curves

correlation with symptom scores in childhood asthma, 1744

Mechanical ventilation. *See also* High-frequency ventilation

adaptive pressure control modes, pros and cons, 478, 640
airway pressure-release, pros and cons, 452, 639

book reviews

Mechanical ventilation: physiological and clinical applications, 4th ed (Pilbeam SP, Cairo JM), 347
Principles and practice of mechanical ventilation, 2nd ed (Tobin MJ), 923

bronchodilators in ventilated patients without obstructive lung disease, 154

bronchodilator therapy in, patient selection and clinical outcomes (editorial), 152

continuous capnography monitoring in ICU, 423, 638

emergency extracorporeal life support for status asthmaticus (case report), 1525

feedback and education for lower tidal volume ventilation, 1761

heated passover humidifier during noninvasive ventilation, bench study, 38

heliox therapy in, pros and cons, 582, 642

high-frequency vs conventional ventilation for ARDS, pros and cons, 595

home care for respiratory infections in kyphoscoliosis patients, 713

imposed power of breathing with impedance threshold device, 177

long-term invasive, home care—2007 revision & update (AARC clinical practice guideline), 1056

secretion management in, 1328

for severe asthma (editorial), 1460

tidal volume settings in acute respiratory failure, 556, 641

transport ventilators

Oxylog 300 and Elisée, evaluation of ventilator-user interface, 1701

performance comparison, 740

ventilator-induced lung injury, time course of physiologic variables, 31

ventilator modes, classification with glossary, 301

Vortran Automatic Resuscitator, laboratory evaluation, 1718

weaning protocols for all patients, pros and cons, 609, 642

wireless on-demand and networking for direct capture of ventilator data, 1530

Mental status

predicting extubation failure after successful spontaneous breathing trial, 1710

Meta-analysis

NPPV in post-extubation respiratory failure, 1472

Metered dose inhalers

electrostatic charges and medication delivery with, 283

Methacholine

positive challenge test in absence of symptoms, 759

Minute ventilation

imposed power of breathing with impedance threshold device, 177

spontaneous breathing pattern and work of breathing in ARDS and acute lung injury, 989

Mixed venous oxygen saturation

response to weaning from mechanical ventilation (letter), 64

Models, theoretical

for evaluating nebulizer performance, 1037

nebulizer efficiency, model vs in vitro testing of (editorial), 984

Morphine

aerosolized, for dyspnea, 900

Morquio syndrome

tracheomalacia in adult with respiratory failure and (case report), 278

Mucins

genetics, 1136

mucolytic agents and, 859

respiratory tract, pathophysiology, 1134

Mucociliary clearance

bronchial mucus transport, 1150

chest physical therapy and, 1198

conference proceedings, 1132, 1392

designing clinical trials to evaluate therapies for, 1348
in elderly and in neurologic or neuromuscular disorders, 1362

forced expiratory technique, directed cough, and autogenic drainage in, 1210

high-frequency assisted techniques for, 1224

high-frequency external chest wall compression for, 982
in infants and children, 1382

inhaled adrenergics and anticholinergics for, 1159

mechanical insufflation-exsufflation for, 1296

mucoactive agents for airway mucus hypersecretory diseases, 1176

mucus hypersecretion pathophysiology, 1134

positive expiratory pressure and oscillatory PEP therapies in, 1308

secretion management in mechanical ventilation, 1328

Mucolytic agents. See Expectorants

Mucopolysaccharidosis

tracheomalacia in adult with respiratory failure and Morquio syndrome (case report), 278

Mucus

airway

in infants and children, 1382

pathophysiology of secretion, 1134

bronchial transport of, 1150

mucoactive agents for hypersecretory disorders, 1176

mucoactive medications, pharmacology, 859

Mycobacterial infections

book review

Tuberculosis & nontuberculous mycobacterial infections, 5th ed (Schlossberg D), 926

bronchus-associated lymphoid tissue lymphoma with *mycobacterium tuberculosis* infection, 755

N

N-acetylcysteine (NAC)

clinical pharmacology, 859

Nebulizers and vaporizers

bacterial growth in nebulizers of children with cystic fibrosis, 258

Bye-bye, blow-by (editorial), 981

delivery of aerosolized antimicrobials for ventilator-associated pneumonia, 866

efficiency of, modeling vs in vitro testing (editorial), 984

face mask design and inhaled albuterol mass, pediatric breathing model, 1021

iloprost delivery with HaloLite, Prodose, and I-neb aerosol systems, in vitro comparisons, 184

performance evaluation model, 1037

Needs assessment

respiratory therapist recruitment strategies and, 1767

Neonatal lung diseases

airway clearance in, 1382

Neurologic disorders

airway clearance in, 1362

Neuromuscular disorders

advanced, NPPV as alternative to intubation in tracheotomy, 1728

airway clearance in adults, 1362

airway clearance in children, 1382

high-frequency chest wall compression for secretion clearance, 982

mechanical insufflation-exsufflation for airway clearance, 1296

New Horizons Symposium. See Conference proceedings

Nitric oxide

pulmonary vasodilation and, 885

Nitroglycerin

for pulmonary vasodilation, 885

Nomenclature

ventilator mode classification system, 301

Noninvasive positive-pressure ventilation (NPPV)

for acute respiratory failure, pros and cons, 568, 641

as alternative to intubation in tracheotomy during advanced neuromuscular disease, 1728
 controlled vs assisted, for chronic respiratory failure in COPD, 1734
 heated passover humidifier during, bench study, 38
 humidification and (editorial), 24
 in post-extubation respiratory failure, 1454, 1472
 for postoperative acute respiratory failure, helmet vs face mask for, 1451, 1463

Nurses

attitudes toward preventive measures for ventilator-associated pneumonia, 1687

Nursing homes

oxygen therapy in alternate site health care facilities—2007 revision & update (AARC clinical practice guideline), 1063

O

OPEN FORUM

abstracts—2007, 1549

Opioids

inhaled, for dyspnea, 900

Outcome assessment

mucociliary clearance, design of clinical trials for, 1348
 tracheal intubation in ICU by pulmonary physicians, 26

Oximeters and oximetry

ear vs finger as site for pulse oximeter sensor, 727

Oxitropium bromide

inhaled, for obstructive airway disease, 833

Oxygen administration and therapy

in home or alternate site health care facility—2007 revision & update (AARC clinical practice guideline), 1063
 pulmonary vasodilation and, 885
 transcutaneous vs arterial O₂ measurements in hyperbaric environment, normal subjects, 1490

P

Pain

aerosolized opioids for, 907

Particle size

iloprost delivery with HaloLite, Prodose, and I-neb aerosol systems, in vitro comparisons, 184

Patient education

home discharge of technology-dependent children, 171

Patient transport

Oxylog 300 and Elisée compact transport ventilators, evaluation of ventilator-user interface, 1701
 transport ventilators, performance comparison, 740

Personnel

bronchoscopy assisting—2007 revision & update (AARC clinical practice guideline), 74
 respiratory therapy needs assessment and recruitment strategies, 1767

PFT Corner

A positive methacholine challenge test in the absence of symptoms, 759

Philip Kittredge Memorial Lecture

What to do when protocols fail, 324

Physicians

pulmonary, tracheal intubation in ICU by, 26

Pirbuterol

inhaled, pharmacology, 820

Pleural diseases and disorders

book review

Malignant pleural mesothelioma (O'Byrne K, Rusch V), 1055

Pleural effusion

breath sounds distribution images in, 1753

Pneumoconiosis

hard metal, 196

Pneumonectomy

effects on pulmonary function and exercise capacity in lung cancer, 720

Pneumonia

acute unilateral, in polymyositis (case report), 1774
 breath sounds distribution images in, 1753
 giant-cell interstitial, from hard metal pneumoconiosis, 196
Pneumocystis jiroveci, 59
 ventilator-associated
 aerosolized antibiotics for, 416, 637, 866
 attitudes of respiratory therapists and nurses about preventive measures, 1687
 evidence-based practices for preventing (editorial), 1678
 prevention and treatment of, 872

Polymyositis

acute unilateral pneumonitis in (case report), 1774

Portopulmonary hypertension

pathophysiology and treatment, 1030

Positive airway pressure (PAP)

inspiratory, heated passover humidifier and, bench study, 38

inspiratory, humidification and (editorial), 24

Positive end-expiratory pressure (PEEP)

ARDS Network PEEP/F_{IO₂} tables as best evidence for managing ARDS and acute lung injury, 461, 639
 during high-frequency jet ventilation, replicating mean airway pressure of oscillatory ventilation, 50
 intrinsic, causing dynamic hyperinflation in status asthmaticus (case report), 1525
 in lung recruitment for managing acute lung injury and ARDS, 622, 643
 partial CO₂ rebreathing for functional residual capacity measurement in acute lung injury, 1480
 transport ventilators, performance comparison, 740

Positive expiratory pressure (PEP)

devices and oscillatory therapies for airway clearance, 1308
 physiological response to PEP bottle vs mask, 1000

Postoperative complications

bronchopulmonary fistula with fatal hemoptysis from aspergillus infection in lung transplant recipient, 1542
helmet vs face mask for NPPV in postoperative respiratory failure, 1451, 1463

Postural drainage

in chest physical therapy, 1201

Pressure-support ventilation. *See* **Ventilation, pressure-support**

Problem-based learning

influence in respiratory care (editorial), 1457
traditional curricula in respiratory therapy education vs, 1497

Prognosis

prognostic value of leukotriene B₄ in ARDS, 1695

Prostacyclin

pulmonary vasodilation and, 885

Protocols

patient-specific weaning protocol, best threshold of rapid shallow breathing index in, 159
respiratory care plans from different hospitals using, comparative study, 1006
weaning, use for all mechanically ventilated patients, pros and cons, 609, 642
What to do when protocols fail (Kittredge Lecture), 324

Pulmonary edema

NPPV for, 568, 641

Pulmonary function testing

average flow-volume curvature index correlation with symptom scores in childhood asthma, 1744
best threshold of rapid shallow breathing index in ventilator weaning protocol, 159
carboxyhemoglobin measurement for adjusting carbon monoxide diffusion capacity, 1741
controlled vs assisted NPPV for chronic respiratory failure in COPD, 1734
ear vs finger as site for pulse oximeter sensor, 727
imposed power of breathing with impedance threshold device, 177
lung resection effects on exercise capacity in lung cancer, 720
positive methacholine challenge test in absence of symptoms, 759

Pulmonary hypertension

aerosolized iloprost for critically ill patients, 1507
iloprost delivery with HaloLite, Prodose, and I-neb aerosol systems, in vitro comparisons, 184
pulmonary vasodilators and, 885

Pulmonary surfactants

aerosolized, as mucokinetic agent, 859
for airway mucus hypersecretory diseases, 1176

Pulsatile flow

endotracheal cuff deflation and, in high-frequency percussive ventilation, 271

in high-frequency percussive ventilation, measurement of, 45

Pulse oximeters. *See* **Oximeters and oximetry**

Q

Quality of health care

What to do when protocols fail (Kittredge Lecture), 324

R

Radiography, chest. *See* **Chest imaging**

Research methods

book review
Study design and statistical analysis: a practical guide for clinicians (Katz MH), 490
design of clinical trials for mucociliary clearance therapy evaluation, 1348

Respiration. *See also* **Breathing, spontaneous**

book review
Human respiration: anatomy and physiology, mathematical modeling, numerical simulation, and applications (Kulish V), 650

Respiratory care

bronchoscopy assisting—2007 revision & update (AARC clinical practice guideline), 74
decade of challenge and progress in (editorial), 1680
information management and processing in respiratory care departments, 730
protocols and care plans of different hospitals, comparative study, 1006
removal of the endotracheal tube—2007 revision & update (AARC clinical practice guideline), 81
What to do when protocols fail (Kittredge Lecture), 324

Respiratory care, pediatric

book reviews
Childhood asthma (Szeffler SJ, Pedersen S), 492
Clinician's guide to pediatric sleep disorders (Richardson MA, Friedman NR), 1786
Bye-bye, blow-by (editorial), 981
face mask design and inhaled albuterol mass, pediatric breathing model, 1021
home discharge of technology-dependent children, family education, 171
mucociliary clearance in infants and children, 1382

RESPIRATORY CARE (journal)

Change of the guard at RESPIRATORY CARE: thanks to Dr Pierson and welcome to Dr Hess (editorial), 1686
changes and progress in last decade (editorial), 1680

Respiratory diseases and disorders

book reviews
Clinical manifestations and assessment of respiratory disease, 5th ed (Des Jardins T, Burton GG), 205

Disorders of the respiratory tract: common challenges in primary care (Mintz), 201
Respiratory care (Francis C), 646
Respiratory disease: a case study approach to patient care, 3rd ed (Wilkins RL et al), 645

Respiratory failure

acute

emergency extracorporeal life support for status asthmaticus (case report), 1525
 home care for mechanically ventilated kyphoscoliosis patients, 713
 NPPV for, pros and cons, 568, 641
 physiologic variables in ventilator-induced lung injury, time factors, 31
 postoperative, helmet vs face mask for NPPV in, 1451, 1463
 tidal volume and lung mechanics in mechanical ventilation, 541, 556
 expiratory central airway collapse causing (case report), 752
 tracheomalacia in adult with respiratory failure and Morquio syndrome (case report), 278

Respiratory infections

home care for, 710
 home care for kyphoscoliosis patients on mechanical ventilation, 713

Respiratory system

book reviews

Crash course: respiratory system (Myers A), 203
The respiratory system at a glance, 2nd ed (Ward JPT et al), 647

Respiratory therapists

attitudes toward preventive measures for ventilator-associated pneumonia, 1687
 computer simulation vs traditional training methods for bronchoalveolar lavage competency assessment, 263
 educational technology and distance learning in respiratory care, 1510
 needs analysis and recruitment strategies for, 1767
 problem-based learning vs traditional curricula in respiratory therapy education, 1497

Resuscitation orders

end-of-life decision making in amyotrophic lateral sclerosis, 996

S

Saline, hypertonic

for airway mucus hypersecretory diseases, 1176

Salmeterol

inhaled, pharmacology, 820

Sarcoidosis

book review

Sarcoidosis (Baughman RP), 492

Secretions

endotracheal, predicting extubation failure after successful spontaneous breathing trial, 1710

Sleep disorders

book reviews

Clinician's guide to pediatric sleep disorders (Richardson MA, Friedman NR), 1786
Clinician's guide to sleep disorders (Watson NF, Vaughn BV), 765
Handbook of sleep medicine (Avidan AY, Zee PC), 766
Primary care sleep medicine: a practical guide (Pagel JF, Pandi-Perumal SR), 1785
Principles and practice of sleep medicine, 4th ed (Kryger MH et al), 763
Sleep: a comprehensive handbook (Lee-Chiong TL), 764
Sleep apnea: current diagnosis and treatment (Randerath WJ et al), 767

Sodium nitroprusside

for pulmonary vasodilation, 885

Spirometry

calibration check procedures (letter), 341
 correlation with symptom scores in childhood asthma, 1744

Statistics and study design

book review

Study design and statistical analysis: a practical guide for clinicians (Katz MH), 490

Status asthmaticus. See Asthma

Stents

airway, for expiratory central airway collapse, 752

Steroids

inhaled, in obstructive airway disease, 852

Stridor

virtual bronchoscopy for subglottic stenosis diagnosis, 337

Subglottic stenosis

diagnosis with virtual bronchoscopy in stridor workup, 337

Suction and suctioning devices

in secretion management in mechanical ventilation, 1328

Swine

physiologic variables in ventilator-induced lung injury, time factors, 31

T

Teaching Case of the Month

Bronchial-pulmonary artery fistula with fatal massive hemoptysis caused by anastomotic bronchial aspergillosis infection in lung transplant recipient, 1542
 Hard metal pneumoconiosis: a case of giant-cell interstitial pneumonitis in a machinist, 196

- Pneumocystis jiroveci* pneumonia, 59
 Trichoptysis due to an intrapulmonary teratoma, 1779
 The workup of stridor: virtual bronchoscopy as a complementary technique in the diagnosis of subglottic stenosis, 337
- Teratoma, pulmonary**
 trichoptysis caused by, 1779
- Terbutaline**
 mucociliary clearance and, 1159
- Terminal care**
 end-of-life decision making in amyotrophic lateral sclerosis, 996
- Terminology**
 ventilator mode classification system, 301
- Thromboxane B₂**
 prognostic value in ARDS, 1695
- Tidal volume**
 adaptive pressure control ventilation and, 478, 640
 endotracheal cuff deflation and, in high-frequency percussive ventilation, 271
 feedback and education in lung-protective ventilation, 1761
 pulsatile, in high-frequency percussive ventilation, 45
 small, in lung-protective ventilation in ARDS, 595
 spontaneous breathing pattern and work of breathing in ARDS and acute lung injury, 989
 ventilator settings in acute respiratory failure, 556, 641
- Time factors**
 in ventilator-induced lung injury, physiologic variables, 31
- Tiotropium bromide**
 inhaled, for obstructive airway disease, 833
 mucociliary clearance and, 1159
- Tomography, emission computed**
 book review
High-resolution computed tomography of the lungs: a pattern approach (Karthikeyan D), 69
- Tracheal diseases and disorders**
 tracheomalacia in adult with respiratory failure and Morquio syndrome (case report), 278
- Tracheal rupture**
 following difficult intubation, causing subcutaneous emphysema (case report), 191
- Tracheotomy and tracheostomy**
 home discharge of technology-dependent children, family education, 171
 interfaces connecting HandiHaler and Aerolizer powder inhalers to tracheostomy tube, 166, 1782
 NPPV as alternative to intubation in advanced neuromuscular disease, 1728
 tracheomalacia in adult with respiratory failure and Morquio syndrome (case report), 278
- Treatment outcome**
 bronchodilators in ventilated patients without obstructive lung disease, 154
 bronchodilator therapy in mechanical ventilation, patient selection and clinical outcomes (editorial), 152
 predicting extubation failure after successful spontaneous breathing trial, 1710
 therapeutic hypothermia following cardiac arrest, 443
- Treatment refusal**
 end-of-life decision making in amyotrophic lateral sclerosis, 996
- Trichoptysis**
 pulmonary teratoma causing, 1779
- Tropical diseases**
 book review
Tropical lung disease, 2nd ed (Sharma OP), 72
- Tuberculosis**
 book reviews
Reichman and Hershfield's tuberculosis: a comprehensive international approach, 3rd ed (Raviglione MC), 926
Tuberculosis & nontuberculous mycobacterial infections, 5th ed (Schlossberg D), 926
 bronchus-associated lymphoid tissue lymphoma with *Mycobacterium tuberculosis* infection (case report), 755
- Tubes, endotracheal**
 interfaces connecting HandiHaler and Aerolizer powder inhalers to tracheostomy tube, 166, 1782
 maintenance and secretion management, 1328
- U**
- U.S. Food and Drug Administration (FDA)**
 investigational drugs in critical care and, 408, 637
- V**
- Vasodilators**
 pulmonary, clinical pharmacology, 885
- Ventilation, pressure-support**
 adaptive pressure control modes, pros and cons, 478, 640
- Ventricular fibrillation**
 therapeutic hypothermia following cardiac arrest and, 443
- W**
- Weaning from ventilatory support**
 best threshold of rapid shallow breathing index in protocol for, 159
 mixed venous oxygen saturation response in (letter), 64
 NPPV role in post-extubation respiratory failure, 1454, 1472
 predicting extubation failure after successful spontaneous breathing trial, 1710
 use of protocols for all patients, pros and cons, 609, 642
- Work of breathing**
 imposed, with impedance threshold device, 177
 spontaneous breathing pattern and, in ARDS and acute lung injury, 989