

# ACPRC Respiratory Review





Welcome to the Respiratory Review for July-December 2011. The ACPRC would like to thank reviewers for their ongoing commitment to this publication.

**Lauren Hogg - RESPIRATORY REVIEW EDITOR**

## Journals and Reviewers

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British Journal of Anaesthesia  
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Chronic Respiratory Disease  
Cochrane Systematic Reviews  
Critical Care Medicine  
European Respiratory Journal  
Heart and Lung  
Intensive Care Medicine  
Journal of ACPRC  
Journal of Advanced Nursing  
Journal of American Medical Association  
Journal of Cardiopulmonary Rehabilitation and Prevention  
Journal of Chronic Obstructive Pulmonary Disease  
Journal of Critical Care  
Journal of Intensive Care Medicine  
Journal of Neurology, Neurosurgery and Psychiatry  
Journal of Physiotherapy  
Journal of Rehabilitation Medicine  
Lancet  
Neurology  
New England Journal of Medicine  
New Zealand Journal of Physiotherapy  
Open Respiratory Medicine Journal  
Paediatric Respiratory Reviews  
Pediatric Pulmonology  
Physical Therapy  
Physical Therapy Reviews  
Physiotherapy  
Physiotherapy Canada  
Physiotherapy Research International  
Physiotherapy Theory and Practice  
Respiration  
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## **Cardiovascular Disease**

### **Cardiac Rehabilitation**

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Archives of Physical Medicine and Rehabilitation 2011; 92(9):1388-1394  
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Bouchla A, Karatzanos E, Dimopoulos S et al  
**The Addition of Strength Training to Aerobic Interval Training: Effects on Muscle Strength and Body Composition in CHF Patients**  
Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(1): 47-51  
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Brown J, Clark A, Dalal H, et al.  
**Patient Education in the Management of Coronary Heart Disease**  
Cochrane Database of Systematic Reviews 2011; Issue 7. Art No. DOI: 10.1002/14651858.CD008895.pub2  
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Brunelle C, Mulgrew J  
**Exercise for Intermittent Claudication**  
Physical Therapy 2011; 91(7): 1009-1017  
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Evans RA  
**Developing the Model of Pulmonary Rehabilitation for Chronic Heart Failure**  
Chronic Respiratory Disease 2011; 8: 259-269  
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Frank A, McConnell T, Rawson E et al  
**Clinical and Functional Predictors of Health-Related Quality of Life During Cardiac Rehabilitation**  
Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(4): 223-229  
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Frengley D, Sansone G, Alba A et al  
**Influence of Age on Rehabilitation Outcomes and Survival in Post-Acute Inpatient Cardiac Rehabilitation**  
Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(4): 230-238  
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Grazzi G, Conconi F, Myers J et al  
**Incremental Exercise Using Progressive Versus Constant Pedaling Rates: A Study in Cardiac Patients**  
Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(5): 303-307  
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**Exercise in Pulmonary Hypertension**  
Physical Therapy Reviews 2011; 16(1):19-24  
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**Exercise-Based Cardiac Rehabilitation for Coronary Heart Disease**  
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Hwang C, Wu Y, Chou C  
**Effect of Aerobic Interval Training on Exercise Capacity and Metabolic Risk Factors in People With Cardiometabolic Disorders: A Meta-Analysis**  
Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(6): 378-385  
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Jehn M, Halle M, Schuster T, et al.  
**Multivariable Analysis of Heart Rate Recovery After Cycle Ergometry in Heart Failure: Exercise in Heart Failure**  
Heart and Lung 2011; 40(6): e129-e137  
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Listerman J, Bittner V, Sanderson B et al  
**Cardiac Rehabilitation Outcomes: Impact of Comorbidities and Age**

Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(6): 342-348

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Pinkstaff S, Peberdy M, Kontos M et al  
**Overestimation of Aerobic Capacity with the Bruce Treadmill Protocol in Patients Being Assessed for Suspected Myocardial Ischemia**

Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(4): 254-260

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Redfern J, Briffa T  
**Cardiac Rehabilitation: Moving Forward with New Models of Care**

Physical Therapy Reviews 2011; 16 (1):31-38

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Savage P, Sanderson B, Brown T et al  
**Clinical Research in Cardiac Rehabilitation and Secondary Prevention: Looking Back and Moving Forward**

Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(6): 333-341

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Skinner M  
**Guest Editorial: Cardiopulmonary Rehabilitation**

Physical Therapy Reviews 2011; 16(1):1-2

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Weingarten M, Salz K, Thomas R et al  
**Rates of Enrolment for Men and Women Referred to Outpatient Cardiac Rehabilitation**

Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(4): 217-222

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Wolkanin-Bartnik J, Pogorzelska H, Bartnik A  
**Patient Education and Quality of Home-Based Rehabilitation in Patients Older Than 60 Years After Acute Myocardial Infarction**

Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(4): 249-253

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## Heart Failure

Athilingam P, King K, Burgin S, et al.  
**Montreal Cognitive Assessment and Mini-Mental Status Examination Compared as Cognitive Screening Tools in Heart Failure**

Heart and Lung 2011; 40(6): 521-529

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Bosnak-Guclu M, Arikan H, Savci S et al  
**Effects of Inspiratory Muscle Training in Patients with Heart Failure**

Respiratory Medicine 2011; 105:1671-1681

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Casida J, Marcuccilli L, Peters R, et al.  
**Lifestyle Adjustments of Adults with Long-Term Implantable Left Ventricular Assist Devices: A Phenomenologic Inquiry**

Heart and Lung 2011; 40(6): 511-520

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Chien CL, Lee CM, Wu YW et al  
**Home-Based Exercise Improves the Quality of Life and Physical Function but not the Psychological Status of People with Chronic Heart Failure: a Randomised Trial**

Journal of Physiotherapy 2011; 57(3): 157-63

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Chung M, Lennie T, Dekker R, et al.  
**Depressive Symptoms and Poor Social Support Have a Synergistic Effect on Event-Free Survival in Patients with Heart Failure**

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De Jong M, Chung M, Wu J, et al.  
**Linkages Between Anxiety and Outcomes in Heart Failure**

Heart and Lung 2011; 40(5): 393-404

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Evans R, Singh S, Williams J et al  
**The Development of a Self-Reported Version of the Chronic Heart Questionnaire**

Journal of Cardiopulmonary Rehabilitation & Prevention 2011; 31(6): 365-372

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Hwang B, Fleischmann K, Howie-Esquivel J. et al.

**Caregiving for Patients with Heart Failure: Impact on Patients' Families**

American Journal of Critical Care 2011; 20(6): 431-442

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Kane G, Karon B, Mahoney D et al  
**Progression of Left Ventricular Diastolic Dysfunction and Risk of Heart Failure**

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## General

Coventry L, Finn J, Bremner A.  
**Sex Differences in Symptom Presentation in Acute Myocardial Infarction: A Systematic Review and Meta-Analysis**

Heart and Lung 2011; 40(6): 477-491

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Thanavaro J, Thanavaro K.  
**Postural Orthostatic Tachycardia Syndrome: Diagnosis and Treatment**

Heart and Lung 2011; 40(6): 554-560

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Voogdt-Pruis HR. Beusmans GHMI, Gorgels APM et al

**Experiences of Doctors and Nurses Implementing Nurse-Delivered Cardiovascular Prevention in Primary Care: A Qualitative Study**

Journal of Advanced Nursing, 2011; 67(8): 1758-1766

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## Cough

Grabowski M, Kasran A, Seys S et al  
**Pepsin and Bile Acids in Induced Sputum of Chronic Cough Patients**

Respiratory Medicine 2011; 105:1257-1261

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Patel AS, Watkin G, Willig B et al  
**Improvement in Health Status Following Cough-Suppression Physiotherapy for Patients with Chronic Cough**

Chronic Respiratory Disease 2011; 8: 253-258

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## Critical Care

### Acute Lung Injury and ARDS

Adhikari N, Tansey C, McAndrews M et al  
**Self-Reported Depressive Symptoms and Memory Complaints in Survivors Five Years After ARDS**

Chest 2011; 140(6):1484-93

[Abstract](#)

Arnal J-M, Paquet J, Wysocki M et al  
**Optimal Duration of a Sustained Inflation Recruitment Maneuver in ARDS Patients**

Intensive Care Medicine 2011; 37(10): 1588-1594

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Dellamonica J, Lerolle N, Sargentini C et al  
**PEEP-Induced Changes in Lung Volume in Acute Respiratory Distress Syndrome. Two Methods to Estimate Alveolar Recruitment**

Intensive Care Medicine 2011; 37(10): 1595-1604

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Vena A, Rylander C, Perchiazzi G et al  
**Lung Sound Analysis Correlates to Injury and Recruitment as Identified by Computed Tomography: An Experimental Study**

Intensive Care Medicine 2011; 37(8): 1378-1383

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Villar J, Blanco J, Añón J M et al  
**The ALIEN study: Incidence and Outcome of Acute Respiratory Distress Syndrome in the Era of Lung Protective Ventilation**

Intensive Care Medicine 2011; 37(12): 1932-1941

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## Airway

Doyle A, Joshi M, Frank P et al  
**A Change in Humidification System can Eliminate Endotracheal Tube Occlusion**  
Journal of Critical Care 2011; 26(4): 637.e1-637.e4

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Frutos-Viva F, Esteban F, Apezteguia C et al  
**Outcome of Reintubated Patients after Scheduled Extubation**  
Journal of Critical Care 2011; 26(5): 502-509

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Jarachovic M, Mason M, Kerber K, et al.  
**The Role of Standardized Protocols in Unplanned Extubations in a Medical Intensive Care Unit**  
American Journal of Critical Care 2011; 20(4): 304-312

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Thille A, Harrois A, Schortgen F et al  
**Outcomes of Extubation Failure in Medical Intensive Care Unit Patients**  
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Wang F, Wu Y, Bo L et al  
**The Timing of Tracheotomy in Critically Ill Patients Undergoing Mechanical Ventilation: A Systematic Review and Meta-Analysis of Randomized Controlled Trials**  
Chest 2011 Dec; 140(6): 1456-65

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## Burns

Dave MH, Frotzler A, Madjdpou C et al  
**Massive Aspiration past the Tracheal Tube Cuff Caused by Closed Tracheal Suction System**

Journal of Intensive Care Medicine 2011; 26(5): 326-329

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Faris K, Zayaruzny M, Spanakis S  
**Extubation of the Difficult Airway**  
Journal of Intensive Care Medicine 2011; 26(4): 261-266

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Kaster KR, Makley AT, Kagan RJ  
**Update on the Critical Care Management of Severe Burns**  
Journal of Intensive Care Medicine 2011; 26(4): 223-236

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## Critical Care Rehabilitation

Paratz J D, Kayambu G.  
**Early Exercise and Attenuation of Myopathy in the Patient with Sepsis in ICU**  
Physical Therapy Reviews 2011; 16(1):58-65

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Thomas AJ  
**Physiotherapy Led Early Rehabilitation of the Patient with Critical Illness**  
Physical Therapy Reviews 2011; 16(1): 46-57

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## ECMO

Brodie D, Bacchetta M  
**Extracorporeal Membrane Oxygenation for ARDS in Adults**  
New England Journal of Medicine 2011; 365(20): 1905-1914

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Checkley W  
**Extracorporeal Membrane Oxygenation as a First-Line Treatment Strategy for ARDS: Is the Evidence Sufficiently Strong?**  
JAMA 2011; 306(15): 1703-1704

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Gatehouse A  
**Extracorporeal Membrane Oxygenation (ECMO) and H1N1: A Single Case Study from a Ventilatory and Physiotherapy Perspective**  
Journal of the Association of Chartered Physiotherapists in Respiratory Care 2011; 43: 26-31

Noah M, Peek G, Finney S et al  
**Referral to an Extracorporeal Membrane Oxygenation Center and Mortality Among Patients With Severe 2009 Influenza A (H1N1)**  
JAMA 2011; 306(15):1659-1668  
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Turner D, Cheifetz I, Rehder K et al  
**Active Rehabilitation and Physical Therapy During Extracorporeal Membrane Oxygenation While Awaiting Lung Transplantation: A Practical Approach**  
Critical Care Medicine 2011; 39(12): 2593-2598  
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## General Critical Care

Adhikari N, Bashir A, Lamontagne F et al  
**High-Frequency Oscillation in Adults: A Utilization Review**  
Critical Care Medicine 2011; 39(12): 2631-2644  
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Ames N, Sulima P, Yates J, et al.  
**Effects of Systematic Oral Care in Critically Ill Patients: A Multicenter Study**  
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Chicayban L, Zin W, Guimarães F.  
**Can the Flutter Valve Improve Respiratory Mechanics and Sputum Production in Mechanically Ventilated Patients? A Randomized Crossover Trial**  
Heart and Lung 2011; 40(6): 545-553  
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Cox J.  
**Predictors of Pressure Ulcers in Adult Critical Care Patients**  
American Journal of Critical Care 2011; 20(5): 364-375  
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Bench S, Day T, Griffiths P.  
**Involving Users in the Development of Effective Critical Care Discharge Information: A Focus Group Study**  
American Journal of Critical Care 2011; 20(6): 443-452  
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Dinglas V, Gellar J, Colantuoni E et al  
**Does Intensive Care Unit Severity of Illness Influence Recall of Baseline Physical Function?**  
Journal of Critical Care 2011; 26(4): 634.e1-634.e7  
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Elliott M, Crookes P, Worrall-Carter L, et al.  
**Readmission to Intensive Care: A Qualitative Analysis of Nurses' Perceptions and Experiences**  
Heart and Lung 2011; 40(4): 299-309  
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Gehlbach B, Salamanca V, Levitt J, et al.  
**Patient-Related Factors Associated With Hospital Discharge to a Care Facility After Critical Illness**  
American Journal of Critical Care 2011; 20(5): 378-386  
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Halm M, Quigley P.  
**Reducing Falls and Fall-Related Injuries in Acutely and Critically Ill Patients**  
American Journal of Critical Care 2011; 20(6): 480-484

Khalaila R, Zbidat W, Anwar K, et al.  
**Communication Difficulties and Psychoemotional Distress in Patients Receiving Mechanical Ventilation**  
American Journal of Critical Care 2011; 20(6): 470-479  
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Kahn J, Hill N, Lilly C et al  
**The Research Agenda in ICU Telemedicine: A Statement from the Critical Care Societies Collaborative**  
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Lasiter S  
**Older Adults' Perceptions of Feeling Safe in an Intensive Care Unit**  
Journal of Advanced Nursing 2011; 67(12): 2649-2657  
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Lavoie S; Talbot LR, Mathieu L  
**Post-Traumatic Stress Disorder Symptoms Among Emergency Nurses: Their Perspective and a 'Tailor-Made' Solution**  
Journal of Advanced Nursing 2011; 67(7): 1514-1522  
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**Burnout in ICU Caregivers: A Multicentre Study of Factors Associated to Centers**  
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Mishra R, Alalawi R, Raj R et al  
**Prolonged Acute Care in a 52-year-old Man with Respiratory Failure: Lessons Learned from 70-day Intensive Care Unit Hospitalization**  
Journal of Critical Care 2011; 26(5): 532.e9-532.e16  
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Nates J, Cárdenas-Turanzas M, Ensor J et al.  
**Cross-Validation of a Modified Score to Predict Mortality in Cancer Patients Admitted to the Intensive Care Unit**  
Journal of Critical Care 2011; 26(4): 388-394  
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Nathanson BH, Henneman EA, Blonaisz ER et al  
**How Much Teamwork Exists Between Nurses and Junior Doctors in the Intensive Care Unit?**  
Journal of Advanced Nursing 2011; 67(8): 1817-1823  
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Nseir S, Zerimech F, Fournier C et al  
**Continuous Control of Tracheal Cuff Pressure and Microaspiration of Gastric Contents in Critically Ill Patients**  
American Journal of Respiratory and Critical Care Medicine 2011; 184(9): 1041-1047  
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Sole M, Penoyer D, Bennett M, et al.  
**Oropharyngeal Secretion Volume in Intubated Patients: The Importance of Oral Suctioning**  
American Journal of Critical Care 2011; 20(6): 141-145  
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Stevenson L, Salisbury L  
**A Service Evaluation of Physiotherapy Practice Within one Scottish Intensive Care Unit**  
Journal of the Association of Chartered Physiotherapists in Respiratory Care 2011; 43: 17-25

Stricker K, Sailer S, Uehlinger D, et al  
**Quality of Life 9 Years After an Intensive Care Unit Stay: A Long-Term Outcome Study**  
Journal of Critical Care 2011; 26(4): 379-387  
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Torredà M, Pérez E, Aragón M, et al.  
**Hypoglycemic Events in Intensive Care Patients: Analysis by Insulin Administration Method and Sample Type**  
American Journal of Critical Care 2011; 20(5): e115-e121  
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Walley K  
**Use of Central Venous Oxygen Saturation to Guide Therapy**  
American Journal of Respiratory and Critical Care Medicine 2011; 184(5): 514-520  
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Weisbrodt L. McKinley S. Marshall A et. al.  
**Daily Interruption of Sedation in Patients Receiving Mechanical Ventilation**  
American Journal of Critical Care 2011; 20(4): e90-e98  
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## Neurological Critical Care

Ho K, Honeybul S, Litton E

**Delayed Neurological Recovery After Decompressive Craniectomy for Severe Non-penetrating Traumatic Brain Injury**  
Critical Care Medicine 2011; 39(11):2495-2500  
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Protheroe RT and Gwinnutt CL

**Early Hospital Care of Severe Traumatic Brain Injury**  
Anaesthesia 2011; 66: 1035-1047  
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Salehpour F, Mohammad A, Jahan B, et al  
**Correlation Between Coagulopathy and Outcome in Severe Head Trauma in Neurointensive Care and Trauma Units**  
Journal of Critical Care 2011; 26(4): 352-356  
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Vianello A, Arcaro G, Braccioni F et al  
**Prevention of Extubation Failure in High-Risk Patients with Neuromuscular Disease**  
Journal of Critical Care 2011; 26(5): 517-524  
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## Sepsis

Giuliano K, Lecardo M, Staul L.  
**Impact of Protocol Watch on Compliance With the Surviving Sepsis Campaign**  
American Journal of Critical Care 2011; 20(4): 313-321  
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Kumar G, Kumar N, Taneja A et al  
**Nationwide trends of severe sepsis in the 21st century (2000-2007)**  
Chest 2011; 140(5): 1223-31  
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## Ventilation

Allerød C, Karbing d, Thorgaard P et al  
**Variability of Preference Toward Mechanical Ventilator Settings: A Model-Based Behavioral Analysis**  
Journal of Critical Care 2011; 26(4): 637.e5-637.e12  
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Azoulay E, Demoule A, Jaber S et al  
**Palliative Non-invasive Ventilation in Patients with Acute Respiratory Failure**  
Intensive Care Medicine 2011; 37(8): 1250-1257  
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Cammarota G, Vaschetto R, Turucz E et al  
**Influence of Lung Collapse Distribution on the Physiologic Response to Recruitment Maneuvers During Non-invasive Continuous Positive Airway Pressure**  
Intensive Care Medicine 2011; 37(7): 1095-1102  
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Caruana LR, Paratz J, Chang AT et al.  
**Electrical Impedance Tomography in the Clinical Assessment of Lung Volumes Following Recruitment Manoeuvres**  
Physical Therapy Reviews 2011; 16(1):66-74  
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Costa R, Spinazzola G, Cipriani G et al  
**A Physiologic Comparison of Proportional Assist Ventilation with Load-Adjustable Gain Factors (PAV+) Versus Pressure Support Ventilation (PSV)**  
Intensive Care Medicine 2011; 37(9): 1494-1500  
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Deepu D, Prasanna S, Thambu D et al  
**An Open-Labelled Randomized Controlled Trial Comparing Costs and Clinical Outcomes of Open Endotracheal Suctioning with Closed Endotracheal Suctioning in Mechanically Ventilated Medical Intensive Care Patients**  
Journal of Critical Care 2011; 26(5): 482-488  
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Dimassi S, Vargas F, Lyazidi A et al  
**Intrapulmonary Percussive Ventilation Superimposed on Spontaneous Breathing: A Physiological Study in Patients at Risk for Extubation Failure**  
Intensive Care Medicine 2011; 37(8): 1269-1276  
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Hayes K, Seller D, Webb M et al  
**Ventilator Hyperinflation: A Survey of Current Physiotherapy Practice in Australia and New Zealand**  
New Zealand Journal of Physiotherapy 2011; 39(3): 124-130

Morán I, Cabello B, Manero E et al  
**Comparison of the Effects of Two Humidifier Systems on Endotracheal Tube Resistance**  
Intensive Care Medicine 2011; 37(11): 1773-1779  
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Oto J, Imanaka H, Nishimura M  
**Clinical Factors Affecting Inspired Gas Humidification and Oral Dryness during Noninvasive Ventilation**  
Journal of Critical Care 2011; 26(5): 535.e9-535.e15  
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Penuelas O, Frotos-Vivar F, Fernandez C et al  
**Characteristics and Outcomes of Ventilated Patients According to Time to Liberation from Mechanical Ventilation**  
American Journal of Respiratory and Critical Care Medicine 2011; 184(4): 414-4120  
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Spada C, Gandhi R, Patel S et al  
**Oxygen Saturation/Fraction of Inspired Oxygen Ratio is a Simple Predictor of Noninvasive Positive Pressure Ventilation Failure in Critically Ill Patients**  
Journal of Critical Care 2011; 26(5): 510-516  
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Stewart N I, Jagelman TAJ and Webster NR  
**Emerging Modes of Ventilation in the Intensive Care Unit**  
British Journal of Anaesthesia 2011; 107(1): 74-82  
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## Ventilator Acquired Pneumonia

Grap M, Munro C, Hamilton V, et al.  
**Early, Single Chlorhexidine Application Reduces Ventilator-Associated Pneumonia in Trauma Patients**  
Heart and Lung 2011; 40(5): e115-e122  
[Abstract](#)

Koff M, Corwin M, Beach M et al  
**Reduction in Ventilator Associated Pneumonia in a Mixed Intensive Care Unit after Initiation of a Novel Hand Hygiene Program**  
Journal of Critical Care 2011; 26(5): 489-495  
[Abstract](#)

Morris A, Hay A, Swann D et al  
**Reducing Ventilator-Associated Pneumonia in Intensive Care: Impact of Implementing a Care bundle**  
Critical Care Medicine 2011; 39(10):2218 - 2224  
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Muscedere J, Rewa O, Mckechnie K et al  
**Subglottic Secretion Drainage for the Prevention of Ventilator-Associated Pneumonia: A Systematic Review and Meta-Analysis**  
Critical Care Medicine 2011; 39(8):1985-1991  
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Palazzo S, Simpson T, Schnapp L.  
**Biomarkers for Ventilator-Associated Pneumonia: Review of the Literature**  
Heart and Lung 2011; 40(4): 293-298  
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## Weaning

Chen Y, Jacobs W, Quan S et al.  
**Psychophysiological Determinants of Repeated Ventilator Weaning Failure: An Explanatory Model**  
American Journal of Critical Care 2011; 20(4): 292-302  
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Montagnani G, Vaghegini G, Vlad E et al  
**Use of the Functional Independence Measure in People for Whom Weaning From Mechanical Ventilation is Difficult**  
Physical Therapy 2011; 91(7): 1109-1115  
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Moodie L, Reeve J, Elkins M  
**Inspiratory Muscle Training Increases Inspiratory Muscle Strength in Patients Weaning from Mechanical Ventilation: a Systematic Review**  
Journal of Physiotherapy 2011; 57(4): 213-21  
[Abstract](#)

Papanikolaou J, Makris D, Saranteas T et al  
**New Insights into Weaning from Mechanical Ventilation: Left Ventricular Diastolic Dysfunction is a Key Player**  
Intensive Care Medicine 2011; 37(12): 1976-1985  
[Abstract](#)

## **Dysfunctional Breathing**

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