ACPRC

Respiratory Review

2009
EDITORIAL

Welcome to the 2009 Respiratory Review.

I would like to take this opportunity to thank the reviewers for their contributions. The Review, which this year incorporates 31 journals, will also be available on the ACPRC website from July 2010.

Please note that these articles have been selected from a broad range of journals relevant to respiratory physiotherapy and the quality of the articles has not been assessed. We recommend critical appraisal before considering any recommendations for clinical practice.

We will shortly be emailing a brief questionnaire to all members. We encourage you to take this opportunity to provide feedback on the Review so we may ensure we are meeting member needs.

Lauren Hogg
RESPIRATORY REVIEW EDITOR

Reviewers and Journals

Amy Rees (AR)
Ann Banks (AB)
Brenda O’Neil (BO’N)
Bronwen Connolly (BC)
Claire Bradley (CB)
Claire Hine (CH)
Fidelma Moran (FM)
Helene Bellas (HB)
Jane Toms (JT)
Jennifer Pryor (JP)
Kim Allen (KA)
Lizzie Flude (LF)
Lynn McDonnell (LMcD)
Margot Skinner (MS)
May Nel (MN)
Nicki Garner (NG)
Pamela Vaughn (PV)
Rachel Garrod (RG)
Rosalie Bennett (RB)

American Journal of Critical Care (CB)
American Journal of Respiratory and Critical Care Medicine (LMcD)
Anaesthesia (RB)
Anaesthesia and Analgesia (RB)
Archives of Physical Medicine and Rehabilitation (BO’N)
Australian Journal of Physiotherapy (HB)
BMJ (LF)
British Journal of Anaesthesia (NG)
Chest (LF)
Cochrane Reviews (RG)
Critical Care Medicine (MN)
European Respiratory Journal (MN)
Heart and Lung (CH)
Intensive Care Medicine (KA)
Journal of ACPRC (AB)
Journal of Advanced Nursing (JT)
Journal of American Medical Association (AR)
Journal of Cardiopulmonary Rehabilitation and Prevention (CH)
Journal of Critical Care (CB)
Journal of Rehabilitation Medicine (BC)
Lancet (BC)
New England Journal of Medicine (AB)
New Zealand Journal of Physiotherapy (JP & MS)
Physical Therapy Reviews (BO’N)
Physiotherapy (CB)
Physiotherapy Canada (FM)
Physiotherapy Research International (RG)
Physiotherapy theory and practice (MN)
Respiration (HB)
Respiratory Medicine (PV)
Thorax (PV)
<table>
<thead>
<tr>
<th>TOPICS</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment and Imaging</td>
<td>3</td>
</tr>
<tr>
<td>Burns</td>
<td>3</td>
</tr>
<tr>
<td><strong>Cardiac Disease</strong></td>
<td></td>
</tr>
<tr>
<td>Cardiac Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>Coronary Heart Disease</td>
<td>4</td>
</tr>
<tr>
<td>Heart Failure</td>
<td>4</td>
</tr>
<tr>
<td><strong>Continuing Professional Development</strong></td>
<td>5</td>
</tr>
<tr>
<td>Cough</td>
<td>5</td>
</tr>
<tr>
<td><strong>Critical Care</strong></td>
<td></td>
</tr>
<tr>
<td>Acute Lung Injury and ARDS</td>
<td>5</td>
</tr>
<tr>
<td>Critical Care Rehabilitation</td>
<td>5</td>
</tr>
<tr>
<td>Head Injury</td>
<td>6</td>
</tr>
<tr>
<td>General Intensive Care</td>
<td>6</td>
</tr>
<tr>
<td>Mechanical Ventilation</td>
<td>8</td>
</tr>
<tr>
<td>Tracheostomy</td>
<td>10</td>
</tr>
<tr>
<td>Ventilator Acquired Pneumonia</td>
<td>10</td>
</tr>
<tr>
<td>Weaning</td>
<td>10</td>
</tr>
<tr>
<td><strong>Dyspnoea</strong></td>
<td>10</td>
</tr>
<tr>
<td><strong>Exercise and Exercise Testing</strong></td>
<td>11</td>
</tr>
<tr>
<td><strong>Guidelines</strong></td>
<td>11</td>
</tr>
<tr>
<td><strong>H1N1</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>Humidification</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>Lung Disease</strong></td>
<td></td>
</tr>
<tr>
<td>Alpha1-antitrypsin Deficiency</td>
<td>12</td>
</tr>
<tr>
<td>Aspergillosis</td>
<td>12</td>
</tr>
<tr>
<td>Asthma</td>
<td>12</td>
</tr>
<tr>
<td>Bronchiectasis</td>
<td>13</td>
</tr>
<tr>
<td>COPD</td>
<td>13</td>
</tr>
<tr>
<td>Cystic Fibrosis</td>
<td>17</td>
</tr>
<tr>
<td>Interstitial Lung Disease</td>
<td>18</td>
</tr>
<tr>
<td>Lung Cancer</td>
<td>18</td>
</tr>
<tr>
<td>Pulmonary Rehabilitation &amp; Exercise in COPD</td>
<td>18</td>
</tr>
<tr>
<td>Restrictive Lung Disease</td>
<td>20</td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td>20</td>
</tr>
<tr>
<td><strong>Neurology</strong></td>
<td></td>
</tr>
<tr>
<td>Neuromuscular</td>
<td>21</td>
</tr>
<tr>
<td>Spinal Cord Injury</td>
<td>21</td>
</tr>
<tr>
<td>Stroke</td>
<td>21</td>
</tr>
<tr>
<td><strong>NIV and CPAP</strong></td>
<td>21</td>
</tr>
<tr>
<td><strong>Obstructive Sleep Apnoea</strong></td>
<td>23</td>
</tr>
<tr>
<td><strong>Oxygen Therapy</strong></td>
<td>23</td>
</tr>
<tr>
<td><strong>Paediatrics</strong></td>
<td>23</td>
</tr>
<tr>
<td><strong>Palliative Care</strong></td>
<td>24</td>
</tr>
<tr>
<td><strong>Pulmonary Infection</strong></td>
<td>25</td>
</tr>
<tr>
<td><strong>Research</strong></td>
<td>25</td>
</tr>
<tr>
<td><strong>Respiratory Physiology</strong></td>
<td>25</td>
</tr>
<tr>
<td><strong>Smoking Cessation</strong></td>
<td>25</td>
</tr>
<tr>
<td><strong>Surgery</strong></td>
<td></td>
</tr>
<tr>
<td>Cardiothoracic Surgery</td>
<td>25</td>
</tr>
<tr>
<td>General Surgery</td>
<td>26</td>
</tr>
</tbody>
</table>

* Encompasses all articles pertaining to this topic regardless of clinical area
Assessment and Imaging

Andrade J, Aymong E
Pneumopericardium and Pneumothorax

Hyatt R, Cowl C, Bjoraker J, Scanlon P
Conditions associated with an abnormal nonspecific pattern of pulmonary function tests
Chest 2009; 135(2): 419-24

Infante M, Lutman RF, Imparato S, et al
Differential diagnosis and management of focal ground-glass opacities
European Respiratory Journal 2009; 33: 821-827

A new breath-holding test may noninvasively reveal early lung abnormalities caused by smoking and/or obesity
Chest 2009; 136(2): 545-53

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Does this patient have a pleural effusion?
The Journal of the American Medical Association 2009; 301(3): 309-317

Burns

Klinge K, Chamberlain DJ, Redden M, King L
Psychological adjustments made by postburn injury patients: an integrative literature review

Lateiner B
Critical care of the burn patient: The first 48 hours
Critical Care Medicine 2009; 37(10): 2819-2826

Cardiac Disease

Cardiac Rehabilitation

Beckie T, Mendonca M, Fletcher G, Schocken D, Evans M, Banks S
Examining the Challenges of Recruiting Women into a Cardiac Rehabilitation Clinical Trial

Does Protection Motivation Theory Explain Exercise Intentions and Behavior During Home-Based Cardiac Rehabilitation?
Journal of Cardiopulmonary Rehabilitation and Prevention 2009; 29(3): 188-192

Butler L, Furber S, Phongsavan P, Mark A, Bauman A
Effects of a Pedometer-Based Intervention on Physical Activity Levels After Cardiac Rehabilitation: A RANDOMIZED CONTROLLED TRIAL
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Goud R, de Keizer NF, ter Riet G, Wyatt JC, Hasman A, Helleman IM, Peek N
Effect of guideline based computerised decision support on decision making of multidisciplinary teams: cluster randomised trial in cardiac rehabilitation
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The Effect of Cardiac Rehabilitation with Relaxation Therapy on Psychological, Hemodynamic, and Hospital Admission Outcome Variables

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Resistance Exercise Training Improves Heart Function and Physical Fitness in Stable Patients with Heart Failure

Physical Exercise Improves the Peripheral Microcirculation of Patients with Chronic Heart Failure

Roulaud M, Donal E, Raud-Raynier P, Denjean A, de Bisschop C
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Failure to Improve Cardiopulmonary Fitness in Cardiac Rehabilitation

Seneviratne C, Stone J, King K
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Sharp J, Freeman C
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Stevenson T, Riggin K, Nagelkirk P, Hargens T, Strath S, Kaminsky L
Physical Activity Habits of Cardiac Patients Participating in an Early Outpatient Rehabilitation Program

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Information sheets for patients with acute chest pain: randomised controlled trial
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Development of a health-related lifestyle self-management intervention for patients with coronary heart disease
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Sensitive Troponin I Assay in Early Diagnosis of Acute Myocardial Infarction
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Inspiratory Muscle Training Improves Oxygen Uptake Efficiency Slope in Patients With Chronic Heart Failure

Strong AL, Gilmour JA
Representations of heart failure in internet patient information
Journal of Advanced Nursing 2009; 65(3): 596-605
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American Journal of Respiratory and Critical Care Medicine 2009; 180:290-295

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The role of theory in increasing adherence to prescribed practice
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The Online Cough Clinic: developing guideline-based diagnosis and advice
European Respiratory Journal 2009; 34: 819-824

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Lee SC, Park JH, Kang SW, Kim DH, Sang HS
External Control of Exhalation for Cough Assistance: A Method for Patients with Glottis Dysfunction and/or Tracheostomy
Archives of Physical Medicine and Rehabilitation 2009; 90(8): 1402-1407

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Acute Lung Injury and ARDS

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Surviving critical illness: Acute respiratory distress syndrome as experienced by patients and their caregivers
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Diabetes, insulin, and development of acute lung injury
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Intensive Care Medicine 2009; 35(1): 63-68

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American Journal of Respiratory and Critical Care Medicine 2009; 179(3): 220-227

Romero CM, Cornejo RA, Gálvez LR, Llanos OP, Tobar EA, Berasain MA, Arellano DH, Larrondo JF, Castro JS
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Journal of Critical Care 2009; 24(1): 81-88

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Effects of frequency and inspiratory plateau pressure during recruitment manoeuvres on lung and distal organs in acute lung injury

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Early Mobility and Walking Program for Patients in Intensive Care Units: Creating a Standard of Care
American Journal of Critical Care 2009; 18(3): 212-221

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Early physical and occupational therapy in mechanically ventilated, critically ill patients: a randomised controlled trial
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Functional status after intensive care: A challenge for rehabilitation professionals to improve outcome

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Poor functional recovery after a critical illness: A longitudinal study

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Physiologic and functional outcome correlates of brain tissue hypoxia in traumatic brain injury
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Brain tissue oxygen and outcome after severe traumatic brain injury: A systematic review
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The intensive care unit work environment: Current challenges and recommendations for the future
Journal of Critical Care 2009; 24(2): 243-248

Alberda C, Gramlich L, Jones N, Jeejeebhoy K, Day AG, Dhalwal R, Heyland DK
The relationship between nutritional intake and clinical outcomes in critically ill patients: results of an international multicenter observational study

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BMJ 2009; Oct 16; 339: b3723

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Early enteral nutrition, provided within 24 h of injury or intensive care unit admission, significantly reduces mortality in critically ill patients: a meta-analysis of randomised controlled trials


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Lee JY, Park SK, Kim HJ, Hong SB, Lim CM, Koh Y Outcome of early intensive care unit patients readmitted in the same hospitalization Journal of Critical Care 2009; 24(2): 267-272


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**Efficacy and safety of normal saline instillation: A systematic review**  
*Physiotherapy* 2009; 95(4): 241-250

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**Impact of continuous venovenous hemofiltration on organ failure during the early phase of severe sepsis: A randomized controlled trial**  
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**Benzodiazepine and opioid use and the duration of intensive care unit delirium in an older population**  
*Critical Care Medicine* 2009; 37(1): 177-183

Polderman K and Herold  
**Therapeutic hypothermia and controlled normothermia in the intensive care unit: Practical considerations, side effects, and cooling methods**  
*Critical Care Medicine* 2009; 37(3): 1101-1120

Protti A, Chiumello D, Cressoni M, Carlesso E, Mietto C, Berto V, Lazzerini M, Quintel M, Gattinoni L  
**Relationship between gas exchange response to prone position and lung recruitability during acute respiratory failure**  

Pudas-Tähkä S, Axelin A, Aantaa R, Lund V, Salanterä S  
**Pain assessment tools for unconscious or sedated intensive care patients: a systematic review**  
*Journal of Advanced Nursing* 2009; 65(5): 946–956

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**Presence and severity of intensive care unit-acquired paresis at time of awakening are associated with increased intensive care unit and hospital mortality**  
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**Is C-reactive protein a good prognostic marker in septic patients?**  

Simkin AL, Robertson LC, Barber VS, Young JD  
**Modifiable factors influencing relatives' decision to offer organ donation: systematic review**  
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*The Journal of the American Medical Association* 2009; 302(18): 2030-2032

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**Communicating with a seriously ill patient**  
*The Journal of the American Medical Association* 2009; 301(12): 1279-1281

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**Which COPD patients should be admitted to the ICU?**  
*Thorax* 2009; 64: 735

**Prone positioning in patients with moderate and severe acute respiratory distress: a randomised controlled trial**  

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**Perceived barriers to the use of sedation protocols and daily sedation interruption: A multidisciplinary survey**  
*Journal of Critical Care* 2009; 24(1): 66-73

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**Survival and quality of life for patients with COPD or asthma admitted to intensive care in a UK multicentre cohort: the COPD and Asthma Outcome Study (CAOS)**  
*Thorax* 2009; 64: 128-132

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**A new era for sedation in ICU patients**  
*The Journal of the American Medical Association* 2009; 301(51): 542-544

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**inhaled nitric oxide versus aerosolized iloprost for the treatment of pulmonary hypertension with left heart disease**  
*Critical Care Medicine* 2009; 37(3): 980-986

**Mechanical Ventilation**

Bloos F, Muller S, Harz A, Gugel M, Geil D, Egerland K, Reinhart K, Marx G  
**Effects of staff training on the care of mechanically ventilated patients: a prospective cohort study**  
*British Journal of Anaesthesia* 2009; 103(2): 223–227

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**Update in sleep and control of ventilation 2008**  
*American Journal of Respiratory and Critical Care Medicine* 2009; 179: 528-532

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Heart and Lung 2009; 38(6): 513-516

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Journal of Critical Care 2009; 24(3): 340-346

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Predicting clinical physiology: A Markov chain model of heart rate recovery after spontaneous breathing trials in mechanically ventilated patients
Journal of Critical Care 2009; 24(3): 347-361

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Observational study of patient-ventilator asynchrony and relationship to sedation level
Journal of Critical Care 2009; 24(1): 74-80

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Heart and Lung 2009; 38(6): 435-439

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Extracorporeal pumpless interventional lung assist in clinical practice: determinants of efficacy
European Respiratory Journal 2009; 33: 551-558

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The Lancet 2009; 374(9698): 1351-1363

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British Journal of Anaesthesia 2009; 102(5): 692-697

Sole ML, Penoyer DA, Su X, Jimenez E, Kalita SJ, Poalillo E, Byers JF, Bennett M, Ludy JE
Assessment of Endotracheal Cuff Pressure by Continuous Monitoring: A Pilot Study
American Journal of Critical Care 2009; 18(2): 133-143

Variable tidal volumes improve lung protective ventilation strategies in experimental lung injury
American Journal of Respiratory and Critical Care Medicine 2009; 179: 684-693

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A bench study of intensive-care-unit ventilators: new versus old and turbine-based versus compressed gas-based ventilators
Intensive Care Medicine 2009; 35(8): 1368-1376

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Journal of Critical Care 2009; 24(2): 212-219
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Examination of non-clinical factors affecting tracheostomy practice in an academic surgical intensive care unit
Critical Care Medicine 2009; 37(12): 3070-3078

Lee SC, Park JH, Kang SW, Kim DH, Sang HS
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Archives of Physical Medicine and Rehabilitation 2009; 90(8): 1402-1407

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Tracheostomy in the acute setting: Patient experience and information needs
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