

Association of Chartered Physiotherapists in Respiratory Care Respiratory Review

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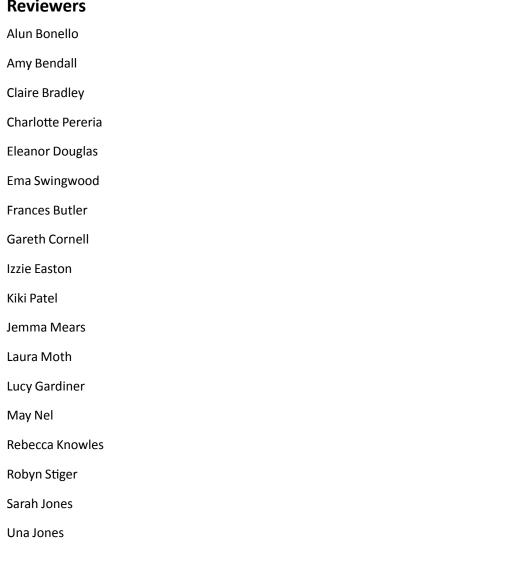


Editorial

Welcome to the Respiratory Review for July 2016 to June 2017. The ACPRC would like to thank reviewers for their ongoing commitment to this publication.

Robyn Stiger Respiratory Review Editor respiratoryrevieweditor@acprc.org.uk

Reviewers



Journals

American Journal of Critical Care

American Journal of Respiratory and Critical Care

Medicine

Anaesthesia

Archives of Physical Medicine and Rehabilitation

BMJ

British Journal of Anaesthesia

Chest

Chronic Respiratory Disease

Cochrane Systematic Reviews

Critical Care

Critical Care Medicine

Current Opinion in Critical Care

European Respiratory Journal

Heart and Lung

International Journal of Chronic Obstructive

Pulmonary Disease

Intensive and Critical Care Nursing

Intensive Care Medicine

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 Cystic Fibrosis

Journal of Intensive Care Medicine

Journal of Neonatal-Perinatal 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

Pediatric Critical Care Medicine

Pediatric Pulmonology

Pediatric Research

Pediatric Respiratory Reviews

Physical Therapy

Physical Therapy Reviews

Physiotherapy

Physiotherapy Canada

Physiotherapy Research International

Physiotherapy Theory and Practice

Respiration

Respiratory Care

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Respiratory Physiology and Neurobiology

Respiratory Research

Thorax



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Cardiovascular Disease

Cardiac Rehabilitation

BÄCK, M., CIDER, Â., HERLITZ, J. et al. 2016.

Kinesiophobia mediates the influences on attendance at exercise-based cardiac rehabilitation in patients with coronary artery disease.

Physiotherapy Theory and Practice, 32(8), 571-580. ☑ Abstract

BONSIGNORE, A., MARZOLINI, S. & OH, P. 2017.

Cardiac Rehabilitation for Women with Breast Cancer and Treatment-Related Heart Failure Compared with Coronary Artery Disease: A Retrospective Study.

Journal of rehabilitation medicine, 49, 277-281.

☑ Abstract

BRAWNER, C., GIRDANO, D., EHRMAN, J. et al. 2017.

Association between Phase 3 Cardiac Rehabilitation and Clinical Events.

Journal of Cardiopulmonary Rehabilitation and Prevention, 37(2), 111-118.

☑ Abstract

FLETCHER, S. & MCBURNEY, H. 2016.

Strategic Moments: Identifying Opportunities to Engage Clients in Attending Cardiac Rehabilitation and Maintaining Lifestyle Changes.

Journal of Cardiopulmonary Rehabilitation

and Prevention, 36(5), 346-351.

☑ Abstract

FLETCHER, S. & MCBURNEY, H. 2016.

Strategic Moments: Identifying Opportunities to Engage Clients in Attending Cardiac Rehabilitation and Maintaining Lifestyle Changes.

Journal of Cardiopulmonary Rehabilitation and Prevention, 36(5), 346-351.

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☐ GAALEMA, D., SAVAGE, P., RENGO, J. et al. 2017.

Patient Characteristics Predictive of Cardiac Rehabilitation Adherence.

Journal of Cardiopulmonary Rehabilitation and Prevention, 37(2), 103-110.

☑ Abstract

GHISI, G., SANTOS, C., BENAIM, B. et al. 2017.

Severity of Depressive Symptoms Pre- and Postcardiac Rehabilitation: A COMPARISON AMONG PATIENTS IN BRAZIL, CANADA, COLOMBIA, THE UNITED STATES, AND VENEZUELA.

Journal of Cardiopulmonary Rehabilitation and Prevention, 37(3), 182-190.

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GOODWIN, C., & EMERY, C. 2016.

Lower Experiential Avoidance Is Associated With Psychological Well-being and Improved Cardio-pulmonary Endurance Among Patients in Cardiac Rehabilitation.

Journal of Cardiopulmonary Rehabilitation and Prevention, 36(6), 438-444.

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Cardiac Rehabilitation Prevents Recurrent Revascularization in Patients With Coronary Heart Disease: A POPULATION-BASED COHORT STUDY IN TAIWAN. *Journal of Cardiopulmonary Rehabilitation and Prevention*, 36(4), 250-257.

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KAMINSKY, L., BRUBAKER, P., GUAZZI, M. et al. 2016.

Assessing Physical Activity as a Core Component in Cardiac Rehabilitation: A Position Statement of the American Association of Cardiovascular and Pulmonary Rehabilitation.

Journal of Cardiopulmonary Rehabilitation and Prevention, 36(4), 217-229.

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KOEHLER HILDEBRANDT, A., HODGSON, J., DODOR, B. et al. 2016.

Biopsychosocial-Spiritual Factors Impacting Referral to and Participation in Cardiac Rehabilitation for African American Patients: A SYSTEMATIC REVIEW. *Journal of Cardiopulmonary Rehabilitation and Prevention, 36(5), 320-330.*

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MADDOCKS, S. & COBBING, S. 2017.

Patients' Experiences of and Perspectives on Phase 1 Cardiac Rehabilitation after Coronary Artery Bypass Graft Surgery.

Physiotherapy Canada, 69(4), 333-340.

MARZOLINI, S., SARIN, M, REITAV, J. et al. 2016.

Utility of Screening for Obstructive Sleep Apnea in Cardiac Rehabilitation.

Journal of Cardiopulmonary Rehabilitation and Prevention, 36(6), 413-420.

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MCGRRIGLE, L. & CAUNT, J. 2016.

Physical Therapist-Led Ambulatory Rehabilitation for Patients Receiving centriMag Short-Term Ventricular Assist Device Support: Retrospective Case Series *Physical Therapy, 96(12), 1865–1873.*

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NIELSEN, S. & VINTHER, A. 2016.

Graded Cycling Test Combined With the Talk Test Is Responsive in Cardiac Rehabilitation.

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Cardiac Rehabilitation after Heart Valve Surgery: IM-PROVEMENT IN EXERCISE CAPACITY AND MORBIDITY. Journal of Cardiopulmonary Rehabilitation and Prevention, 37(3), 191-198.

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Evolving Role of Exercise Testing in Contemporary Cardiac Rehabilitation.

Journal of Cardiopulmonary Rehabilitation and Prevention, 36(5), 309-319.

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Directly Measured Physical Function in Cardiac Rehabilitation.

Journal of Cardiopulmonary Rehabilitation and Prevention, 37(3), 175-181.

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Disparities in Cardiac Rehabilitation Participation in the United States: A SYSTEMATIC REVIEW AND META-ANALYSIS.

Journal of Cardiopulmonary Rehabilitation and Prevention, 37(1), 2-10.

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TAHERZADEH, G., FILIPPO, D., KELLY, S. et al. 2016.

Patient-Reported Outcomes in Cardiac Rehabilitation: WHAT DO WE KNOW ABOUT PROGRAM SATISFACTION? A REVIEW.

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ZULLO, M., GATHRIGHT, E., DOLANSKY, M. et al. 2017.

Influence of Depression on Utilization of Cardiac Rehabilitation Post myocardial Infarction: A STUDY OF 158 991 MEDICARE BENEFICIARIES.

Journal of Cardiopulmonary Rehabilitation and Prevention, 37(1), 22-29.

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Heart Failure

ALENCAR, M., ARBEX, F., SOUZA, A. et al. 2016.

Does Exercise Ventilatory Inefficiency Predict Poor Outcome in Heart Failure Patients With COPD? *Journal of Cardiopulmonary Rehabilitation and Prevention, 36(6), 454-459.*

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ARBEX, F., ALENCAR, M., SOUZA, A., et al., 2016.

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BONSIGNORE, A., MARZOLINI, S. & OH, P. 2017.

Cardiac Rehabilitation for Women with Breast Cancer and Treatment-Related Heart Failure Compared with Coronary Artery Disease: A Retrospective Study. *Journal of rehabilitation medicine, 49, 277-281.* Abstract

DE ASUA, I & ROSENBERG, A. 2017.

On the right side of the heart: Medical and mechanical support of the failing right ventricle.

Journal of the Intensive Care Society, 18(2), 113-120.

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DE MEIRELLES ALMEIDA, C., NEDEL, W., MORAIS, V. et al. 2016.

Diastolic dysfunction as a predictor of weaning failure: A systematic review and meta-analysis.

Journal of Critical Care, 34, 135-141.

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BMJ, 356, j413.

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Positive airway pressure therapy in heart failure patients: Long-term effects on lung function.

*Respiratory Physiology & Neurobiology, 238, 41-46.

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Stretching Exercises Improve Vascular Endothelial Dysfunction Through Attenuation of Oxidative Stress in Chronic Heart Failure Patients With an Implantable Cardioverter Defibrillator.

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N Engl J Med, 375(13), 1221-1230.

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MARTIN, S., ANDERSON, B., VINCENZO, J. et al. 2017.

A Retrospective Comparison of Home Telehealth and Nursing Care With or Without Rehabilitation Therapy on Rehospitalisation Rates of Individuals with Heart Failure.

Journal of Cardiopulmonary Rehabilitation and Prevention, 37(3), 207-213.

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Slow-paced respiration therapy to treat symptoms in pulmonary arterial hypertension.

Heart and Lung, 46(1), 7-13.

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Community-based exercise training for people with chronic respiratory and chronic cardiac disease: a mixed-methods evaluation.

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MEHRA, M. R., NAKA, Y., URIEL, N. et al. for the MOMENTUM 3 Investigators. 2017.

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N Engl J Med, 376(5), 440-450.

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The alveolar to arterial oxygen partial pressure difference is associated with pulmonary diffusing capacity in heart failure patients.

Respiratory Physiology & Neurobiology, 233, 1-6.

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NICOLLS, M. & VOELKEL, M. 2017.

The Roles of Immunity in the Prevention and Evolution of Pulmonary Arterial Hypertension. *American Journal of Respiratory and Critical Care Medicine*, 195(10), 1292-1299.

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Combined Exercise and Inspiratory Muscle Training in Patients with Heart Failure: A SYSTEMATIC REVIEW AND META-ANALYSIS.

Journal of Cardiopulmonary Rehabilitation and Prevention, 36(6), 395-401.

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N Engl J Med, 376(5), 451-460.

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VIDAL-PETIOT, E., FORD, I., GREENLAW, N. et al. 2016.

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The Lancet, 388(10056), 2142-2152.

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WARING, T., GROSS, K., SOUCIER, R. et al. 2017.

Measured Physical Activity and 30-Day Rehospitalisation in Heart Failure Patients.

Journal of Cardiopulmonary Rehabilitation and Prevention, 37(2), 124-129.



Critical Care

Acute Lung Injury and ARDS

DINGLAS, V., FRIEDMAN, L., COLANTUONI, E., et al. 2017.

Muscle Weakness and 5-Year Survival in Acute Respiratory Distress Syndrome Survivors *Critical Care Medicine*, *45*(*3*), *446-453*.
☑ Abstract

FAN, E., DEL SORBO, L., GOLIGHER, E. et al. 2017.

An Official American Thoracic Society/European Society of Intensive Care Medicine/Society of Critical Care Medicine Clinical Practice Guideline: Mechanical Ventilation in Adult Patients with Acute Respiratory Distress Syndrome.

American Journal of Respiratory and Critical Care Medicine, 195(9), 1253-1263.

☑ Abstract

GUO, L., WANG, W., ZHAO, N., et al. 2016.

Mechanical ventilation strategies for intensive care unit patients without acute lung injury or acute respiratory distress syndrome: a systematic review and network meta-analysis.

Critical Care, 20(1), 226.

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HOWELLS, P., THICKETT, D., KNOW, C. et al. 2016.

The impact of the acute respiratory distress syndrome on outcome after oesophagectomy *British Journal of Anaesthesia*, 117(3), 375-381.
☐ Abstract

LAGIER, D., PLATON, L., CHOW-CHINE, A., et al. 2016.

Severity of Acute Respiratory Distress Syndrome in haematology patients: long-term impact and early predictive factors.

Anaesthesia, 71(9), 1081-1090.

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MÁCA, J., JOR, O., HOLUB, M. et al. 2017.

Past and Present ARDS Mortality Rates: A Systematic Review

Respiratory Care, 62(1) 113-122.

☑ Abstract

MARTI, J., HALL, P., HAMILTON, P. et al. 2016.

One-year resource utilisation, costs and quality of life in patients with acute respiratory distress syndrome (ARDS): secondary analysis of a randomised controlled trial.

Journal of Intensive Care, 4(1), 56.

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MUÑOZ, J., SANTA-TERESA, P., TOMEY, M. et al. 2017.

Extracorporeal membrane oxygenation (ECMO) in adults with acute respiratory distress syndrome (ARDS): A 6-year experience and case—control study. *Heart and Lung, 46(2), 100-105.*

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NATT, B., DESAI, H., SINGH, N. et al. 2016.

Extracorporeal Membrane Oxygenation for ARDS: National Trends in the United States 2008–2012. *Respiratory Care, 61 (10) 1293-1298.*
☑ Abstract

NETO, S., SCHMIDT, M., AZEVEDO, L. et al. 2016.

Associations between ventilator settings during extracorporeal membrane oxygenation for refractory hypoxemia and outcome in patients with acute respiratory distress syndrome: a pooled individual patient data analysis.

Intensive Care Medicine, 42(11), 1672-1684.
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YADAV, H., THOMPSON, B. & GAJIC, O. 2017.

Fifty Years of Research in ARDS.Is Acute Respiratory Distress Syndrome a Preventable Disease?

American Journal of Respiratory and Critical Care Medicine, 195(6), 725-736.

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YOSHIDA, T., FUJINO, Y., AMATO, M. & KAVANAGH, B. 2017.

Fifty Years of Research in ARDS. Spontaneous Breathing during Mechanical Ventilation. Risks, Mechanisms, and Management.

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BROWN, I. & DEINER, S. 2016.

Perioperative cognitive protection.

British Journal of Anaesthesia, 117(suppl_3):
iii52-iii61.

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HULL, J., BACKER, V., GIBSON, P. & FOWLER, S. 2016.

Laryngeal Dysfunction: Assessment and Management for the Clinician.

American Journal of Respiratory and Critical Care Medicine, 194(9), 1062-1072.

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Monitoring regional blockade. Anaesthesia, 72, 70-75. ☑ Abstract

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Anaesthesia, 72(2), 248-261.

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Critical Care Rehabilitation

ALI, R., CORNELIUS, P., HERASEVICH, V. et al. 2016.

Effect of daily use of electronic checklist on physical rehabilitation consultations in critically ill patients. *Journal of Critical Care, 38, 357-361.*

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BALDWIN, C., JOHNSTON, K., ROWLANDS, A., & WILLIAMS, M. 2018.

Physical Activity of ICU Survivors during Acute Admission: Agreement of the activPAL with Observation. *Physiotherapy Canada, 70(1), 57-63.*

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Inspiratory muscle training to enhance recovery from mechanical ventilation: a randomised trial.

Thorax, 71(9), 812-819.

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Early Mobilization Reduces Duration of Mechanical Ventilation and Intensive Care Unit Stay in Patients With Acute Respiratory Failure.

Archives of Physical Medicine and Rehabilitation, 98(5), 931 – 939.

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Connolly, B., O'Neill, B., Salisbury, L. et al. on behalf of the Enhanced Recovery After Critical Illness Programme Group. 2016.

Physical rehabilitation interventions for adult patients during critical illness: an overview of systematic reviews.

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Use of Neuromuscular Electrical Stimulation to Preserve the Thickness of Abdominal and Chest Muscles of Critically III Patients: A Randomized Control Trial. Journal of rehabilitation medicine, 49, 40-48.

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Factors Associated with Functional Recovery among Older Intensive Care Unit Survivors.

American Journal of Respiratory and Critical Care Medicine, 194(3), 299-307.

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The RECOVER Program: Disability Risk Groups and 1-Year Outcome after 7 or More Days of Mechanical Ventilation.

American Journal of Respiratory and Critical Care Medicine, 194(7), 831-844.

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HODGSON, C. & TIPPING, C. 2016.

Physiotherapy management of intensive care unitacquired weakness.

Journal of Physiotherapy, 63(1), 4-10.

☑ Abstract

HUANG, M., CHAN, K., ZANNI, J. et al. 2016.

Functional Status Score for the ICU: An International Clinimetric Analysis of Validity, Responsiveness, and Minimal Important Difference.

Critical Care Medicine, 44(12), e1155-e1164.



HUNTER, O., GEORGE, E., REN, D., et al. 2017.

Overcoming nursing barriers to intensive care unit early mobilisation: A quality improvement project. Intensive and Critical Care Nursing, 40, 44-50. ☑ Abstract

KAMDAR, B., COMBS, M., COLANTUONI, E., et al.

The association of sleep quality, delirium, and sedation status with daily participation in physical therapy in the ICU.

Critical Care, 20, 261.

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Safety and Feasibility of a Protocolized Approach to In-Bed Cycling Exercise in the Intensive Care Unit: Quality Improvement Project.

Physical Therapy, 97(6), 593-602.

☑ Abstract

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Critical illness polyneuropathy and myopathy 20 years later. No man's land? No, it is our land! Intensive Care Medicine, 42(11), 1790-1793. ☑ Abstract

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Effects of Ambulation and Nondependent Transfers on Vital Signs in Patients Receiving Norepinephrine. American Journal of Critical Care, 26(1), 31-36. ☑ Abstract

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Chronic pain disorders after critical illness and ICU-acquired opioid dependence: two clinical conundra. Current Opinion in Critical Care, 22(5), 506-512. ☑ Abstract

SANTOS, C., HUSSAIN, S., MATHUR, S. et al. 2016.

Mechanisms of Chronic Muscle Wasting and Dysfunction after an Intensive Care Unit Stay. A Pilot Study. American Journal of Respiratory and Critical Care Medicine, 194(7), 821-830.

☑ Abstract

SCHALLER, S., ANSTEY, M., BLOBNER, M. et al. 2016.

Early, goal-directed mobilisation in the surgical intensive care unit: a randomised controlled trial. The Lancet, 388(10052), 1377-1388. ☑ Abstract

THOMAS, S., BURRIDGE, J., POHL, M. et al. 2016.

Recovery of Sit-To-Stand Function in Patients with Intensive-Care-Unit-Acquired Muscle Weakness Syndrome Therapy Cohort Study. Journal of rehabilitation medicine, 48, 793-798. ☑ Abstract

UMEI, N., ATAGI, K., OKUNO, H. et al. 2016

Impact of mobilisation therapy on the haemodynamic and respiratory status of elderly intubated patients in an intensive care unit: A retrospective analysis. Intensive and Critical Care Nursing, 35, 16-21. ☑ Abstract

ECMO/ECCOR

BARTLETT, R. 2017.

Physiology of Gas Exchange during ECMO for Respiratory Failure.

Journal of Intensive Care Medicine, 32(4), 243-248. ☑ Abstract

CASHEN, K., REEDER, R., DALTON, H. et al. 2017.

Functional Status of Neonatal and Pediatric Patients after Extracorporeal Membrane Oxygenation. Pediatric Critical Care Medicine, 18(6), 561-570. ☑ Abstract

DEGRADO, J., HOHLFELDER, B., RITCHIE, B., et al.

Evaluation of sedatives, analgesics, and neuromuscular blocking agents in adults receiving extracorporeal membrane oxygenation.

Journal of Critical Care, 37, 1-6.

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GATTINONI, L., TONETTI, T. & QUINTEL. M. 2017.

How best to set the ventilator on extracorporeal membrane lung oxygenation.

Current Opinion in Critical Care, 23(1), 66-72. ☑ Abstract

HAYES, K., HOLLAND, A., PELLEGRINO, V. et al. 2016.

Physical function after extracorporeal membrane oxygenation in patients pre or post heart transplantation - An observational study.

Heart and Lung, 45(6), 525-531.

HSIEH, F., HUANG, G., KO, J. & LOU, M. 2016.

Health status and quality of life of survivors of extra corporeal membrane oxygenation: a cross-sectional study.

Journal of Advanced Nursing, 72(7), 1626-1637.
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LANSINK-HARTGRING, A., VAN DER BIJ, W., VER-SCHUUREN, E. et al. 2017.

Extracorporeal Life Support as a Bridge to Lung Transplantation: A Single-Center Experience with an Emphasis on Health-Related Quality of Life. Respiratory Care, 62(5), 588-594.

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LEE, S, H., SHIN, D-S., KIM, J, R. & KIM, H. 2017.

Factors associated with mortality risk in critical care patients treated with veno-arterial extracorporeal membrane oxygenation.

Heart and Lung, 46 (3), 137-142.

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LIN, J. 2017.

Extracorporeal Membrane Oxygenation for Severe Pediatric Respiratory Failure *Respiratory Care, 62(6), 732-750.*☑ Abstract

MARHONG, J., DEBACKER, J., VIAU-LAPOINTE, J. et al. 2017.

Sedation and Mobilization during Venovenous Extracorporeal Membrane Oxygenation for Acute Respiratory Failure: An International Survey. *Critical Care Medicine*, *45(11)*, *1893-1899*.
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MUÑOZ, J., SANTA-TERESA, P., TOMEY, M. et al. 2017.

Extracorporeal membrane oxygenation (ECMO) in adults with acute respiratory distress syndrome (ARDS): A 6-year experience and case—control study. *Heart and Lung, 46(2), 100-105.*

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NATT, B., DESAI, H., SINGH, N. et al. 2016.

Extracorporeal Membrane Oxygenation for ARDS: National Trends in the United States 2008–2012. *Respiratory Care, 61(10) 1293-1298.*☑ Abstract

NETO, S., SCHMIDT, M., AZEVEDO, L. et al. 2016.

Associations between ventilator settings during extracorporeal membrane oxygenation for refractory hypoxemia and outcome in patients with acute respiratory distress syndrome: a pooled individual patient data analysis.

Intensive Care Medicine, 42(11), 1672-1684.

☑ Abstract

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Physiotherapy for Patients on Awake Extracorporeal Membrane Oxygenation: A Systematic Review. *Physiotherapy Research International, 21(4), 203-209.*

☑ Abstract

RAMAN, L. & DALTON, H. 2016.

Year in Review 2015: Extracorporeal Membrane Oxygenation.

Respiratory Care, 61(7) 986-991.

☑ Abstract

SCHOENRATH, F., HOCH, D., MAISANO, F. et al. 2016.

Survival, quality of life and impact of right heart failure in patients with acute cardiogenic shock treated with ECMO.

Heart and Lung, 45(5), 409-415.

☑ Abstract

THANGAPPAN, K., CAVAROCCHI, N., BARAM, M. et al. 2016.

Systemic inflammatory response syndrome (SIRS) after extracorporeal membrane oxygenation (ECMO): Incidence, risks and survivals.

Heart and Lung, 45(5), 449-453.

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General Critical Care

ÁLVAREZ, E., GARRIDO, M., TOBAR, E. et al. 2017.

Occupational therapy for delirium management in elderly patients without mechanical ventilation in an intensive care unit: A pilot randomized clinical trial. *Journal of Critical Care, 37, 85-90.*

☑ Abstract

ANEMAN, A. & VIELLIARD-BARON, A. 2016.

Cardiac dysfunction in sepsis.

Intensive Care Medicine, 42(12), 2073-2076.

☑ Abstract



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Improving Hospital Survival and Reducing Brain Dysfunction at Seven California Community Hospitals: Implementing PAD Guidelines via the ABCDEF Bundle in 6,064 Patients.

Critical Care Medicine, 45(2), 171-178.

☑ Abstract

BAUMBACH, P., GOTZ, T., GUNTHER, A., et al. 2017.

Somatosensory Functions in Survivors of Critical Illness

Critical Care Medicine, 45(6), e567-e574.

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BERGER, M. & GROCOTT, M. 2017.

Facing acute hypoxia: from the mountains to critical care medicine.

British Journal of Anaesthesia, 118(3), 283-286. Fulltext

BILOTTA, F., LAURETTA, M., TEWARI, A. et al. 2017.

Insulin and the Brain: A Sweet Relationship with Intensive Care.

Journal of Intensive Care Medicine, 32(1), 48-58.

☑ Abstract

BOUNDS, M., KRAM, S., SPERONI, K. et al. 2016.

Effect of ABCDE Bundle Implementation on Prevalence of Delirium in Intensive Care Unit Patients.

American Journal of Critical Care, 25(6), 535-544.

☑ Abstract

BURNHAM, J., KIRBY, J & KOLLEF, M. 2016.

Diagnosis and management of skin and soft tissue infections in the intensive care unit: a review.

Intensive Care Medicine, 42(12), 1899-1911.

☑ Abstract

CHLAN, L. 2016.

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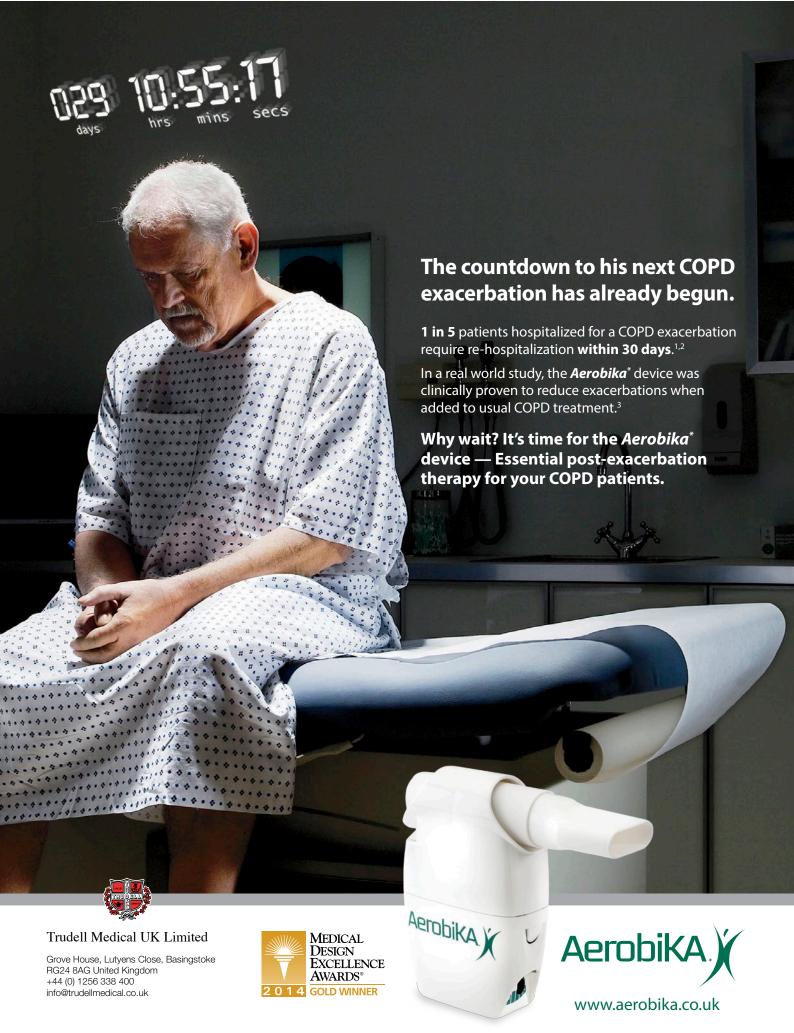
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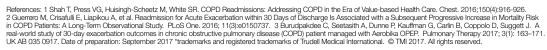
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