

Professor Nicholas Hart's publications

Peer reviewed papers

1. Let air out of the bowel to allow more air in the lungs: surgical treatment of weaning failure. H Ip, WL Woo, A Darakhshan & **N Hart**. *Thorax*. 2017 [In Press]
2. Barriers to Translation of Physical Activity into the Lung Cancer Model of Care: A Qualitative Study of Clinicians' Perspectives. CL Granger, L Denehy, L Remedios, S Retica, P Phongpagdi, N Hart, SM Parry. *Ann Am Thorac Soc*. 2016 [In Press]
3. Factors influencing physical activity and rehabilitation in survivors of critical illness: a systematic review of quantitative and qualitative studies. SM Parry, LD Knight, B Connolly, C Baldwin, Z Puthuchear, P Morris, J Mortimore, **N Hart**, L Denehy, CL Granger. *Intensive Care Med*. 2017 [In Press]
4. Rectus Femoris Cross-Sectional Area and Muscle Layer Thickness: Comparative Markers of Muscle Wasting and Weakness. ZA Puthuchear, AS McNelly, J Rawal, B Connolly, PS Sidhu, A Rowleson, J Moxham, SD Harridge, **N Hart**, HE Montgomery. *Am J Respir Crit Care Med*. 2017 195:136-138
5. Understanding factors influencing physical activity and exercise in lung cancer: a systematic review. CL Granger, B Connolly, L Denehy, **N Hart**, P Antippa, KY Lin, SM Parry. *Support Care Cancer*. 2017 Mar;25(3):983-999
6. Exercise rehabilitation following intensive care unit discharge for recovery from critical illness: executive summary of a Cochrane Collaboration systematic review. B Connolly, L Salisbury, B O'Neill, L Geneen, A Douiri, MP Grocott, **N Hart**, TS Walsh, B Blackwood. *J Cachexia Sarcopenia Muscle*. 2016 Dec;7(5):520-526
7. NoSAS score associated with arterial stiffness in a large cohort of healthy individuals. AF Cicero, M Rosticci, MF Pengo, N Hart, C Borghi. *Lancet Respir Med*. 2016 Nov;4(11):e54
8. Randomised sham-controlled trial of transcutaneous electrical stimulation in obstructive sleep apnoea. MF Pengo, S Xiao, C Ratneswaran, K Reed, N Shah, T Chen, A Douiri, **N Hart**, Y Luo, GF Rafferty, GP Rossi, A Williams, MI Polkey, J Moxham and J Steier. *Thorax*. 71: 923-31
9. Trial of Portable CPAP for the Management of Tracheobronchomalacia. M Patout, L Mylott, R Kent, G Arbane, PB Murphy & **N Hart**. *Am J Respir Crit Care Med*. [In Press]
10. An exploratory study of novel outcome measures in critical illness survivors: construct validity of physical activity, frailty and health-related quality of life measures. AS McNelly, J Rawal, D Shrikrishna, NS Hopkinson, J Moxham, SD Harridge, **N Hart**, HE Montgomery and ZA Puthuchear. *Crit Care Med*. 2016. [In Press].
11. Klotho and smoking: An interplay influencing the skeletal muscle function deficits that occur in COPD. MS Patel MS, AV Donaldson, A Lewis, SA Natanek, JY Lee, YM Andersson, G Haji, SG Jackson, BJ Bolognese, JP Foley, PL Podolin, PL Bruijnzeel, **N Hart**, NS Hopkinson, WD Man, PR Kemp, MI Polkey. *Respir Med*. 2016 Apr;113:50-6.
12. Comparative study of linear and curvilinear ultrasound probes to assess quadriceps rectus femoris muscle mass in healthy subjects and in patients with chronic respiratory disease. S Mandal, E Suh, A Thompson, B Connolly, M Ramsay, R Harding, Z Puthuchear, J Moxham J and **N Hart**. *BMJ Open Respir Res*. 2016 12;3(1):e000103.
13. Prevention of Morbidity in sickle cell disease--qualitative outcomes, pain and quality of life in a randomised cross-over pilot trial of overnight supplementary oxygen and auto-adjusting continuous positive airways pressure (POMS2a): study protocol for a randomised controlled trial. J Howard, B Inusa, C Lioffi, E Jacob, PB Murphy, **N Hart**, J Gavlak, S Sahota, M Chorozioglou, C Nwosu, M Gwam, A Gupta, DC Rees, SL Thein, IC Reading, FJ Kirkham, MY Cheng. *Trials*. 2015. 25;16:376
14. Correlates of obesity related chronic respiratory failure. A Manuel, **N Hart** and J Stradling. *BMJ Open*

- Resp Res. **2016**. 18;3(1): e000110.
15. Neuromuscular electrical stimulation to improve exercise capacity in patients with severe COPD: a randomised double-blind, placebo-controlled trial. M Maddocks, C Nolan, W Man, M Polkey, **N Hart**, W Gao, GF Rafferty, J Moxham & I Higginson. *Lancet Respiratory*. **2016**. 4(1):27-36
 16. Prospective observational cohort study of weaning failure patients admitted to a specialist weaning, rehabilitation and home mechanical ventilation centre. D Mifsud Bonnici, T Sanctuary, A Warren, PB Murphy, J Steier, P Marino, H Pattani, BC Creagh-Brown & **N Hart**. *BMJ Open*. **2016**. 8: 6(3):e010025
 17. Advancing care coordination and telehealth deployment: ACT 'Cookbook' – What does it take to make integrated care work? **2015**. <http://www.act-programme.eu/node/85>
 18. Neural respiratory drive predicts clinical deterioration and safe discharge in exacerbations of chronic obstructive pulmonary disease. E-S Suh, S Mandal, R Harding, M Ramsay, M Kamalanathan, K Henderson, K O'Kane, A Douiri, N Hopkinson, MI Polkey, G Rafferty, J Moxham & **N Hart**. *Thorax*. **2015**. 70 (12):1123-30. **(with Accompanying Editorial)**
 19. Parasternal electromyography to determine the relationship between patient-ventilator asynchrony and nocturnal gas exchange during home mechanical ventilation set up. M Ramsay, S Mandal, E-S Suh, J Steier, A Douiri, MI Polkey, AK Simonds & **N Hart**. *Thorax*. **2015**. 70(10):946-52
 20. Exercise rehabilitation following intensive care unit discharge for recovery from critical illness. B Connolly, L Salisbury, B O'Neill, L Geneen, A Douiri, MPW Grocott, **N Hart**, TS Walsh TS & B Blackwood for the ERACIP Investigators. *Cochrane Review*. **2015**. 22: 6:CD008632. doi: 10.1002/14651858
 21. Guideline on the management of acute chest syndrome in sickle cell disease. J Howard, **N Hart**, M Roberts-Harewood, M Cummins, M Awogbade, B Davis. *Br J Haematol*. **2015**;169(4):492-505
 22. The Role of Noninvasive Ventilation in the Management and Mitigation of Exacerbations and Hospital Admissions/Readmissions for the Patient With Moderate to Severe COPD. <http://journal.cme.chestnet.org/home-niv-copd>. DP White, GJ Criner, M Dreher, **N Hart**, FW Peyerl, LF Wolfe, SA Chin. *Chest*. **2015** 1;147(6):1704-5.
 23. Safety and efficacy of auto-titrating non-invasive ventilation in COPD-OSA overlap syndrome. PB Murphy, G Arbane, M Ramsay, E-S Suh, S Mandal, D Jayaram, S Leaver, MI Polkey & **N Hart**. *Eur Respir J*. **2015**. 46(2):548-51
 24. A pilot study of change in fracture risk in patients with acute respiratory distress syndrome. J Rawal, MJW McPhail, G Ratnayake, P Chan, J Moxham, and ZA Puthuchear*, SDR Harridge*, **N Hart***, HE Montgomery*. *Crit Care*. **2015**. 14;19 (1):165.
*joint senior author
 25. Qualitative ultrasound in acute critical illness muscle wasting. ZA Puthuchear, R Phadke, J Rawal, MJW McPhail, PS Sidhu, A Rowlerson, J Moxham, and SDR Harridge*, **N Hart***, Montgomery HE*. *Crit Care Med*. **2015** 43(8):1603-1611
*joint senior author
 26. Exercise-based rehabilitation following hospital discharge for survivors of critical illness with intensive care unit-acquired weakness: a pilot feasibility trial. B Connolly, A Thompson, A Douiri, J Moxham and **N Hart**. *J Crit Care*. **2015** 30(3):589-98
 27. The use of an online pictorial Epworth Sleepiness Scale in the assessment of age and gender specific differences in excessive daytime sleepiness. P Drakatos, R Ghiassi, I Jarrold, J Harris, A Abidi, A Douiri, **N Hart**, C Kosky, AJ Williams, MR Partridge, J Steier
J Thorac Dis. **2015**. 7 (5):897-902.
 28. Medium term cost effectiveness of automated non-invasive outpatient set-up vs. standard fixed level non-invasive ventilation inpatient set up in obese patients with chronic respiratory failure: protocol description. S Mandal, G Arbane, P Murphy, MW Elliott, JP Janssens, JL Pepin, JF. Muir, A Cuvelier, M Polkey, A Douiri and **N Hart**. *BMJ Open*. **2015**. Apr 23;5(4):e007082
 29. Ultrasound for the Assessment of Peripheral Skeletal Muscle Architecture in Critical Illness: A Systematic Review. B Connolly, VMacBean, C Crowley, A Lunt, J Moxham, GF. Rafferty and **N Hart**. *Crit Care Med*. **2015** 43(4):897-905
 30. Is a raised bicarbonate, without hypercapnia, part of the physiological spectrum of obesity-related hypoventilation? AR Manuel, **N Hart**, JR Stradling. *Chest*. **2015**. 147(2):362-8 **(with Accompanying Editorial)**

31. Skeletal muscle adiposity is associated with physical activity, exercise capacity and fibre shift in COPD. M Maddocks, D Shrikishna, S Vitoriano, SA Natanek, RJ Tanner, **N Hart**, PR Kemp, J Moxham, MI Polkey, NS Hopkinson. *Eur Respir J*. **2014**: 44(5):1188-98
32. Nocturnal pulse rate and symptomatic response in patients with obstructive sleep apnoea treated with continuous positive airway pressure for one year. MF Pengo, P Drakatos, C Kosky, A Williams, **N Hart**, GP Rossi, J Steier. *J Thorac Dis*. **2014**: 6(6):598-605
33. An Official American Thoracic Society Practice Guideline: The Diagnosis of Intensive Care Acquired Weakness in Adults. E Fan, RG Brower, F Cheek, L Chlan, R Gosselink, **N Hart**, MS Herridge, RO Hopkins, CL Hough, JP Kress, N Latronico, M Moss, DM Needham, MM Rich, RD Stevens, KC Wilson, C Winkelman, DW Zochodne and NA Ali. 2014. *Am J Resp and Crit Care Med*. **2014**: 190(12):1437-46
34. A UK Survey of Rehabilitation Following Critical Illness: Implementation of NICE Clinical Guidance 83 (CG 83) Following Hospital Discharge. BA Connolly, A Douiri, J Steier, J Moxham and **N Hart**. *BMJ Open*. **2014**: 4(5):e004963
35. An Observational Cohort Study to Determine Efficacy, Adherence and Outcome of Early Initiation of Pressure Support Ventilation During Mechanical Ventilation. G Glover, BA Connolly, S Di Gangi, L Ayers M Terblanche R Beale and **N Hart**. *BMJ Open Res* **2014**: 1(1):e000028
36. Functional electrical stimulation with cycling in the critically ill: a pilot case-matched control study. SM Parry, S Berney, S Warrillow, D El-Ansary, A Bryant, Z Puthuchear, N **Hart**, R Koopman and L Denehy. *J Crit Care*. **2014**: 29(4):695.e1-7
37. A Cohort Study To Identify Simple Clinical Tests for Chronic Respiratory Failure in Obese Patients with Sleep Disordered Breathing. S Mandal, E-S Suh, E Boleat, W Asher, M Kamalanathan, K Lee, A Douiri, PB Murphy, J Steier and **N Hart**. *BMJ Open Res* **2014**: 1: e000022
38. Observational Study of the Effect of Obesity on Lung Volumes. J Steier, A Lunt, **N Hart**, MI Polkey and J Moxham. *Thorax* **2014**: 69(8):752-9
39. The Effect of Post Operative Physical Training on Activity After Curative Surgery for Non-Small Cell Lung Cancer: A Multicentre Randomised Controlled Trial. G Arbane, C Speed, **N Hart**, A Douri, N Hopkinson, R Garrod. **2014**. *Physiotherapy*. 100:100-7
40. A Randomized Controlled Trial of ACE-inhibition for Skeletal Muscle Dysfunction in Chronic Obstructive Pulmonary Disease. D Shrikishna, R Tanner, J Lee, A Natanek, A Lewis, P Murphy, **N Hart**, J Moxham, H Montgomery, P Kemp, M Polkey, N Hopkinson. *Chest*. **2014**: 146(4):932-40
41. Comparison of 7 vs. 14 days wrist actigraphy monitoring in a sleep disorders clinic population. S Briscoe, E Hardy, M Pengo, C Kosky, AJ Williams, **N Hart**, J Steier. **2014**. *Chronobiol Int*. 31:356-62
42. Acute Skeletal Muscle Wasting in Critical Illness. ZA Puthuchear, J Rawal, M McPhail, B Connolly, G Ratnayake, P Chan, N Hopkinson, R Padhke, T Dew, PS Sidhu, C Velloso, J Seymour, CC Agley, A Selby, M Limb, L Edwards, K Smith, A Rowleron, MJ Rennie, J Moxham and SDR Harridge*, **N Hart***, HE Montgomery*. **2013**. *JAMA*. 10(15):1591-600 (**with Accompanying Editorial**)
- *joint senior author
43. Clinical Predictive Value of Manual Muscle Strength Testing During Critical Illness: An Observational Cohort Study. BA Connolly, GD Jones, AA Curtis, PB Murphy, A Douiri, NS Hopkinson, MI Polkey, J Moxham and **N Hart**. **2013**. *Crit Care*. 17(5):R229.
44. Economic Assessment of Home-Based COPD Management Programs. S X Liu, M.D, MC. Lee, M Atakhorrami, J Tatousek, M McCormack, R Yung, **N Hart** & DP White. **2013**. *COPD*. 10:640-9
45. Provision of Home Mechanical Ventilation and Sleep Services Provision for England Survey. S Mandal, E Suh, M Davies, I Smith, T Maher, MW Elliott, AC Davidson and **N Hart**. **2013**. *Thorax*. 68:880-1
46. Low flow nocturnal oxygen therapy does not suppress haemoglobin levels in sickle cell disease. H Ip, R Kesse-Adu, J Howard & **N Hart**. **2013**. *Br J Haematol*. 161:455-6
47. Dysphagia in Duchenne Muscular Dystrophy assessed objectively by Surface Electromyography. S Rosenvinge, R Garrod, **N Hart** & S Miller. **2013**. *Dysphagia*. 28(2):188-98
48. Dysphagia in Duchenne Muscular Dystrophy assessed by Validated Questionnaire. S Rosenvinge, R Garrod, **N Hart** & S Miller. **2013**. *Int J Lang Commun Disord*. 48: 240-46
49. Early rehabilitation in critical care (eRiCC): functional electrical stimulation with cycling protocol for a randomised controlled trial. SM Parry, S Berney, R Koopman, Adam Bryant, D El-Ansary, Z Puthuchear, **N Hart**, S Warrillow, L Denehy. **2012**. *BMJ Open* 13: 2. pii: e001891

50. High Pressure vs. High Intensity Non-Invasive Ventilation (NIV) in Stable Hypercapnic Chronic Obstructive Pulmonary Disease (COPD): A Randomized Cross-Over Trial. PB Murphy, K Brignall, J Moxham, MI Polkey, AC Davidson, & **N Hart**. 2012. *Int J Chron Obstruct Pulmon*. 7: 811-8
51. Vitamin D and muscle strength and endurance in chronic obstructive pulmonary disease. AS Jackson, D Shrikrishna, JL Kelly, SV Kemp, **N Hart**, J Moxham, MI Polkey, P Kemp & NS Hopkinson. 2012. *Eur Respir J*. 41(4):998
52. Quadriceps wasting and physical inactivity in patients with COPD. D Shrikrishna, M Patel, RJ Tanner, JM Seymour, BA Connolly, ZA Puthuchear, Simon LF, Walsh, SA Bloch, PS, Sidhu, **N Hart**, Paul R Kemp1, John Moxham3, MI Polkey, NS Hopkinson. 2012. *Eur Respir Journal*.
53. Volume Targeted vs. Fixed Pressure Support Non-Invasive Ventilation in Super Obese Patients with Chronic Respiratory Failure: A Randomised Controlled Trial. PB Murphy, AC Davidson, M Hind, A Simonds, AJ Williams, NS Hopkinson, J Moxham, MI Polkey & **N Hart**. 2012. *Thorax*. 67: 727 - 734 **(with Accompanying Editorial)**
54. Using Neural Respiratory Drive to Monitor Clinical Change During Acute Exacerbations of Chronic Obstructive Pulmonary Disease. PB Murphy, A Kumar, S Walterspacher, S Mashru, C Reilly, C, F Fidele, NS Hopkinson, William Man, MI Polkey, J Moxham & **N Hart**. 2011. *Thorax*. 66: 602-608
55. British Thoracic Society (BTS) Survey of Knowledge of Health Care Professionals Managing Patients with Acute Hypercapnic Exacerbation of COPD Requiring Non-Invasive Ventilation (NIV). E Ballard, L McDonnell, S Keilty, AC Davidson, and **N Hart**. 2011. *Thorax*. 66:823-824
56. Outpatient pulmonary rehabilitation following acute exacerbations of COPD. Seymour JM, Moore L, Jolley CJ, Ward K, Creasey J, Steier JS, Yung B, Man WD, **Hart N**, Polkey MI, Moxham J. 2010. *Thorax*. 65(5):423-8
57. Sleep-Disordered Breathing in Unilateral Diaphragm Paralysis or Severe Weakness. J Steier, CJ Jolley, J Seymour, S Kaul, YM Luo, GF Rafferty, **N Hart**, MI Polkey and J Moxham. 2008. *Eur Respir Journal*. 32(6):1479-87
58. Mechanism of Improvement of Respiratory Failure in COPD Patients with Domiciliary Non-Invasive Ventilation. AH Nickol, **N Hart**, NS Hopkinson, J Moxham, A Simonds and MI Polkey. 2008. *Int J Chron Obstruct Pulmon Dis*. 3 :453-62.
59. Respiratory Muscle Testing: A Valuable Tool for Children with Neuromuscular Disorders. F Nicot, **N Hart**, V Forin, M Boule, A Clement, MI Polkey, F Lofaso, and B Fauroux. 2006. *Am J Respir Crit Care Med*. 166:61-66
60. Respiratory Effects of Combined Truncal and Abdominal Support in Spinal Cord Injury Patients. **N Hart**, I Laffont, A Perez de La Sota, M Lejaille, G Macadou, MI Polkey, P Denys, F Lofaso. 2005. *Arch Rehab Med*. 86: 1447-51
61. Mechanism of Improvement of Respiratory Failure in Restrictive Patients Post Non-Invasive Ventilation. AH Nickol, **N Hart**, NS Hopkinson, J Moxham, A Simonds and MI Polkey. 2005. *Thorax*. 60:754-760
62. Malnutrition is an Important Determinant of Diaphragm Strength in Young Patients with Cystic Fibrosis. **N Hart**, P Tounian, MI Polkey, A Clément, M Boulé, J Moxham, F Lofaso and B Fauroux. 2004. *Am J Clin Nutr*. 80: 1201-6
63. Inspiratory Muscle Load and Capacity In Chronic Heart Failure. **N Hart**, MT Kearney, NB Pride, M Green, F Lofaso, AM Shah, J Moxham and MI Polkey. 2004. *Thorax*. 59: 477-482
64. Burkholderia Cepacia is Associated with Pulmonary Hypertension and Increased Mortality Among Cystic Fibrosis Patients. B Fauroux, **N Hart**, S Belfar, M Boulé, I Tillous-Borde, D Bonnet, E Bingen and A Clément. 2004. *J Clin Micro*. 42: 5537-5541
65. Setting of Non-Invasive Pressure Support Ventilation in Young patients with Cystic Fibrosis. B Fauroux, F Nicot, S Essouri, **N Hart**, A Clément, MI Polkey and F Lofaso. 2004. *Eur Respir J*. 24: 624-30
66. Acute Effects of Oral Steroids on Muscle Function in Chronic Obstructive Airways Disease. NS Hopkinson, W D-C Mann, MJ Dayer, ET Ross, AH Nickol, **N Hart**, J Moxham and MI Polkey. 2004. *Eur Respir J*. 24: 137-42
67. Depression of Cortico-Spinal Transmission to the Diaphragm During Isocapnic Mechanical Ventilation. T Sharshar, E Ross, N Hopkinson, AH Nickol, **N Hart**, J-C Raphael, F Lofaso and MI Polkey. 2004. *JAP*. 97:3-10

68. *The Effect of Salmeterol on Respiratory Muscle Activity During Exercise in Poorly Reversible COPD.* W D-C Man, N Mustfa, D Nickoletou, S Kaul, **N Hart**, GF Rafferty, N Donaldson, MI Polkey and J Moxham. **2004.** *Thorax.* 59: 470-476
69. *The Effect of Back Up Rate During Non-Invasive Mechanical Ventilation in Young Patients with Cystic Fibrosis.* B Fauroux, B Louis, **N Hart**, S Essouri, K Leroux, A Clément, MI Polkey & F Lofaso. **2004.** *Intensive Care Med.* 30: 673-81
70. *Respiratory Muscle Activity During REM Sleep in Patients With Diaphragm Paralysis.* JR Bennett, HMA Dunroy, DR Corfield, **N Hart**, AK Simonds, MI Polkey & MJ Morrell. **2004.** *Neurology.* 62: 134-7
71. *Limitations of Sniff Nasal Pressure in Patients with Severe Neuromuscular Weakness.* **N Hart**, MI Polkey, T Sharshar, L Falaize, B Fauroux, J-C Raphaël and F Lofaso. **2003.** *J Neurol Neurosurg Psychiatry.* 74: 1685-87
72. *Measurement of Diaphragm Loading During Pressure Support Ventilation.* B Fauroux, **N Hart**, S McNeill, A Clément, J Moxham F Lofaso and MI Polkey. **2003.** *Intensive Care Med.* 29: 1960-6
73. *Air Leaks During Mechanical Ventilation as a Cause of Hypercapnia in Neuromuscular Disease.* J Gonzalez, T Sharshar, K Chadda, **N Hart**, F Lofaso, J-C Raphael. **2003.** *Intensive Care Med.* 29: 596-602
74. *Cough Augmentation With Mechanical Insufflation-Exsufflation in Patients With Neuromuscular Weakness.* M Chatwin, E Ross, **N Hart**, AH Nickol, MI Polkey & AK Simonds. **2003.** *Euro Respir J.* 21: 502-8
75. *Cardiac and Respiratory Effects of Continuous Positive Airways Pressure and Non-Invasive Ventilation in Acute Cardiac Pulmonary Edema.* K Chadda, D Annane, **N Hart**, P Gajdos, J-C Raphael & F Lofaso. **2003.** *Crit Care Med.* 30: 2457-2461
76. *Proportional Assist Ventilation Compared to Pressure Support Ventilation in Chronic Respiratory Failure due to Neuromuscular and Chest Wall Deformity.* **N Hart**, A Hunt, MI Polkey, B Fauroux, F Lofaso & AK Simonds. **2002.** *Thorax.* 57: 979-981
77. *Effect of Distribution and Severity of Respiratory Muscle Weakness on Gas Transfer and Lung Volumes.* **N Hart**, D Cramer, SP Ward, AH Nickol, J Moxham, MI Polkey & NB Pride. **2002.** *Euro Respir J.* 20: 996-1003
78. *Changes in Pulmonary Mechanics with Increasing Disease Severity in Children and Young Adults with Cystic Fibrosis.* **N Hart**, MI Polkey, A Clément, M Boulé, J Moxham, F Lofaso and B Fauroux. **2002.** *Am J Respir Crit Care Med.* 166:61-66
79. *The Effect of Severe Isolated Unilateral and Bilateral Diaphragm Weakness on Exercise Performance.* **N Hart**, AH Nickol, D Cramer, SP Ward, F Lofaso, NB Pride, J Moxham, & MI Polkey. **2002.** *Am J Respir Crit Care Med.* 165:1265-1270
80. *A Novel Clinical Test of Respiratory Muscle Endurance.* **N Hart**, P Hawkins, C-H Hamnegard, M Green, J Moxham and MI Polkey. **2002.** *Eur Respir J.* 19: 232-239 **(with Accompanying Editorial)**
81. *Reproducibility of Twitch and Sniff Transdiaphragmatic Pressures.* YM Luo, **N Hart**, N Mustfa, W-D C Mann, G Rafferty, MI Polkey and J Moxham. **2002.** *Resp Physiol Neurobiol.* 132: 301-306
82. *Central Fatigue of the Diaphragm and the Quadriceps During Incremental Loading.* R Guleria, R Lyall, **N Hart**, ML Harris, C-H Hamnegard, M Green, J Moxham & MI Polkey. **2002.** *Lung.* 180:1-13
83. *Depression of Diaphragm Contractility by Nitrous Oxide in Man.* B Fauroux, J Cordingley, **N Hart**, A Clement, J Moxham, F Lofaso and MI Polkey. **2002.** *Anesthesia and Analgesia.* 94: 340-5.
84. *Evaluation of an Inspiratory Muscle Trainer in Healthy Humans.* **N Hart**, K Sylvester, S Ward, D Cramer, J Moxham and MI Polkey. **2001.** *Respir Med.* 95:526-31
85. *Measurement of Twitch Transdiaphragmatic, Esophageal and Endotracheal Tube Pressure with Bilateral Anterolateral Magnetic Phrenic Nerve Stimulation in Patients in ICU.* AC Watson, PD Hughes, ML Harris, **N Hart**, RJ Ware, J Wendon, M Green, and J Moxham. **2001.** *Crit Care Med.* 29: 1325-31
86. *Inspiratory Muscle Relaxation Rate Slows During Exhaustive Treadmill Walking in Patients with Chronic Heart Failure.* PD Hughes, **N Hart**, C-H Hamnegard, M Green, AJS Coats, J Moxham and MI Polkey. **2001.** *Am J Respir Crit Care Med.* 163:1400-1403
87. *The Effect of Diaphragm Fatigue on Neural Respiratory Drive.* YM Luo, **N Hart**, N Mustafa, RA Lyall, MI Polkey and J Moxham. **2001.** *J Appl Physiol.* 90:1700-1706

88. Anterior Magnetic Phrenic Nerve Stimulation: Laboratory and Clinical Evaluation. MI Polkey, A Duguet, YM Luo, PD Hughes, **N Hart**, C-H Hamnegard, M Green, T Similowski, and J Moxham. **2000**. *Intensive Care Med*. 26:1065-1075
89. Effect of Lung Volume on the Oesophageal Diaphragm EMG Assessed by Magnetic Phrenic Nerve Stimulation. YM Luo, RA Lyall, ML Harris, P Hawkins, **N Hart**, MI Polkey, and J Moxham. **2000**. *Eur Respir J*. 15: 1033-1038

Review articles

1. Neuromuscular Blockade in the 21st Century Management of the Critically Ill Patient. De Backer J, **N Hart** and Fan E. *Chest*. [In Press]
2. Respiratory Management of the Obese Patient Undergoing Surgery. LE Hodgson, PB Murphy and **N Hart**. *J Thorac Dis*. 2015 May;7 (5):943-52. doi: 10.3978/j.issn.2072-1439.2015.03.08
3. Current opinions on non-invasive ventilation as a treatment for chronic obstructive pulmonary disease. M Ramsay and **N Hart**. **2013**. *Curr Opin Pulm Med*. 19(6):626-30. doi: 10.1097/MCP.0b013e3283659e4c
4. Admission prevention in COPD: non-pharmacological management. ES Suh, S Mandal, N Hart. **2013**. *BMC Med*. 11:247. doi: 10.1186/1741-7015-11-247
5. Early feeding during critical illness. 2014. DE Bear, ZA Puthuchear and **N Hart**. **2014**. *Lancet Respir Med*. 2:15-7
6. Training the respiratory muscles does not improve exercise tolerance. **2012**. MS Patel, **N Hart**, and MI Polkey. *Journal of Physiol*. Epub ahead of print
7. Cross-talk proposal: Training the respiratory muscles does not improve exercise tolerance. **2012**. MS Patel, **N Hart**, and MI Polkey. *Journal of Physiol*. 590: 3393-5.
8. Exercise rehabilitation following hospital discharge in survivors of critical illness: an integrative review. **2012**. B Connolly, L Denehy, S Brett, D Elliott and **N Hart**. *Critical Care*. 16: 226-231
9. Neuromuscular Blockade and Skeletal Muscle Weakness in Critically Ill Patients: Time to Rethink the Evidence? **2012**. Z Puthuchear, J Rawal, G Ratnayake, S Harridge, H Montgomery and **N Hart**. *Am J Resp Crit Care Med*. 185: 911–917
10. Muscle Structure and function: defeating neuromuscular weakness in critical care. **2010**. Z Puthuchear, H Montgomery, S Harridge, J Moxham and **N Hart**. *Journal of Physiol*. 588: 4641-4649
11. Skeletal Muscle Dysfunction in Critical Care: Wasting, Weakness & Rehabilitation Strategies. **2010**. Z Puthuchear, S Harridge and **N Hart**. *Crit Care Medicine*. 38(10 Suppl):S676-82.
12. Who Benefits from Home Mechanical Ventilation? P Murphy and **N Hart**. **2009**. *Clin Med*. 9:160-3
13. Respiratory Failure. **N Hart**. 2008. *Clinical Medicine*. 36:242-45
14. The Pulmonary Physician in Critical Care: *Neuromusculoskeletal Disorders*. **N Hart** and AK Simonds. **2003**. *Thorax*. 58: 547-49
15. Non-Invasive Mechanical Ventilation in Cystic Fibrosis: Physiological Effects and Monitoring. B Fauroux, **N Hart** and F Lofaso. *Monaldi Archives of Chest Disease*. **2002**. 57:268-72
16. Investigation of Respiratory Muscle Function. **N Hart** and MI Polkey. **2001**. *Clinical Pulmonary Medicine*. 8: 180-87

Editorials

1. Air travel in chronic conditions. D Gradwell & **N Hart**. **2015**. *Lancet Respir Med*. 3(11):e36-7
2. Trials of home mechanical ventilation in COPD: what have we learnt? PB Murphy and **N Hart**. *Thorax*. **2014** 69(9):787-788
3. Skeletal muscle mass and mortality - but what about functional outcome? ZA Puthuchear and **N Hart**. *Crit Care*. 2014 Feb 17;18(1):110. doi: 10.1186/cc13729.
4. Feast or famine in the intensive care unit: does it really matter? N Hart and E Barreiro. **2013**. *Am J Resp Crit Care Med*. 1;188:523-5
5. Lung Protective Ventilation: Long Term Outcomes. L Camporota and **N Hart**. **2012**. *BMJ*. 344:e2491

6. Home Mechanical Ventilation. M Wise, **N Hart**, C Davidson, R Fox, M Allen, M Elliott, B Winter, M Morgan, H Shovelton, R Meadowcroft, J Campbell and I Finlay. **2011**. *BMJ*. 342: 780-1
7. Assessment of respiratory muscle strength in motor neurone disease: is asking enough? P Murphy R Lyall, **N Hart** and MI Polkey. **2010**. *Eur Respir J*. 35:245-6
8. Weakness in the ICU: a call to action. R Stevens, **N Hart** and T Sharshar. **2009**. *Crit Care*. 13(6):1002.
9. Intensive care unit acquired muscle weakness: when should we consider rehabilitation? Z Puthuchery and **N Hart**. **2009**. *Crit Care*.;13(4):167
10. Do chronic obstructive pulmonary disease (COPD) patients that snore have an increased risk of obstructive sleep apnoea? **N Hart**. **2007**. *Int J Chron Obstruct Pulmon Dis*. 2: 400-1.
11. Pump Action: Effect of Maturation on Respiratory Muscle Endurance. **N Hart**. **2005**. *Pediatric Pulmonology*. 40: 181-182

Opinion pieces

1. First year of the thoracic triumvirate. **Hart N**, G Jenkins, AR Smyth. *Thorax*. 2016 71(7):579
2. Embracing social media. NS Hopkinson, **N Hart**, G Jenkins & A Smyth. **2015**. *Thorax*. 70(12):1112
3. The first thoracic triumvirate. **N Hart**, G Jenkins & A Smyth. **2015**. *Thorax*. 70(10):917

Letters

1. The Olympic rings of Duchenne muscular dystrophy - cardiac computed tomography wins gold. Krommydas A, Rajani R, Hart N, Kapetanakis S. *Rev Port Cardiol*. 2016 doi: 10.1016/j.repc.2015.12.010. [Epub ahead of print]
2. Neuromuscular electrical stimulation to improve exercise capacity in patients with severe COPD - Authors' reply. M Maddocks, C Nolan, WD Man, MI Polkey, **N Hart**, W Gao, GF Rafferty, J Moxham and IJ Higginson. *Lancet Respir Med*. 2016 Apr;4(4):e16. doi: 10.1016/S2213-2600(16)00093-X.
1. Rebuttal: 'Obesity hypoventilation syndrome (OHS): does the current definition need revisiting?' **N Hart**, S Mandal, A Manuel, B Mokhlesi, JL Pepin, A Piper, J Stradling. **2014**. *Thorax*. 69: 955
2. Obesity hypoventilation syndrome: does the current definition need revisiting? N Hart, S Mandal, A Manuel, B Mokhlesi, JL Pépin, A Piper, JR Stradling. **2014**. *Thorax*. 69:83-4
3. Acute muscle wasting among critically ill patients--reply. ZA Puthuchery, MJ McPhail and N Hart. *JAMA*. 2014 311(6):622-3
4. besity Hypoventilation Syndrome: The need for a multifaceted approach to treatment. *Chest*. **2012**. PB Murphy, MI Polkey and **N Hart**. *Chest*. 142: 540-1
5. Muscle Wasting Rather Than Lung Damage. M Wise and **N Hart**. *N Engl J Med*. **2011**. 365(3):2
6. Neuromuscular Blockers and ARDS. Z Puthuchery, **N Hart** and H Montgomery. *N Engl J Med*. **2010**. 23;363: 2563.
7. ARDS Outcomes: A marker of Critical Care Quality in the UK? **2011**. MP Wise, **N Hart** and PJ Frost. *Thorax*. 66:359

Books

1. Outcomes for Obese Patients with Chronic Respiratory Failure – Results from Observational and Randomized Controlled Trials. PB Murphy and **N Hart**. **2014**. In B Mokhlesi ed. *Sleep Medicine Clinics Sleep hypoventilation: A state of the Art Review*.
2. Prolonged Weaning. B Creagh-Brown, J Steier and **N Hart**. **2014**. In R Stevens, **N Hart** and M Herridge, eds. *The Legacy of Critical Care: A Textbook of Post ICU Medicine*.
3. Skeletal Muscle Mass Regulation in Critical Illness. Z Puthuchery, H Montgomery, **N Hart** and S Harridge. **2014**. In R Stevens, **N Hart** and M Herridge, eds. *The Legacy of Critical Care: A Textbook of Post ICU Medicine*.
4. Diseases of the Thoracic Cage & Respiratory Muscle. M Ramsay, MI Polkey and **N Hart**. **2013**. In: RK Albert, SG Spiro, and JR Jett, eds. *Clinical Respiratory Medicine (4th Edition)*. Elsevier. Chapter 64:

5. Advances in acute non-invasive ventilation: translating clinical trials into clinical practice. PB Murphy and **N Hart**. **2011**. In: Horizons in Medicine 22: 87- 92
6. Diagnostic Tests in the Assessment of Patients for Home Mechanical Ventilation. PB Murphy, MI Polkey and **N Hart**. **2010**. In: MW Elliott, S Nava and B Schönhofer, eds. Principles and Practices of Non-Invasive Ventilation and Weaning. Hodder Arnold. Chapter 16: 151-166
7. Weaning From Mechanical Ventilation. **N Hart**. **2010**. In: A McLuckie, ed. Respiratory Disease and its Management: Competency Based Critical Care. London Springer: 157-165
8. Neuromusculoskeletal Disorders. **N Hart** and AK Simonds. **2004**. In: MJD Griffiths and TW Evans, eds. Respiratory Management in Critical Care. London BMJ Publishing: 117-119b