

PERSONAL INFORMATION

Anita Simonds

WORK EXPERIENCE

October 1990- Present

Honorary Consultant in Respiratory and Sleep Medicine

Royal Brompton & Harefield NHS Foundation Trust (United Kingdom)

I am a hospital clinician responsible for inpatient and outpatient management of adult patients with respiratory disease and sleep disorders. Management of adults and children with neuromuscular disease and respiratory insufficiency.

I am also Vice President of the European Respiratory Society which nominated me for membership of Healthcare Professionals Working Party (HCPWP) of EMA. I have a background in medical education, and also in regulation of medical devices eg. ventilators

EDUCATION AND TRAINING

July 2012- Present

Professor of Respiratory and Sleep Medicine, MD FRCP FERS

National Heart and Lung Institute, Imperial College London (United Kingdom)

Respiratory Medicine, Sleep Medicine, Neuromuscular diseases, Respiratory Failure, non-invasive ventilation and continuous positive airway pressure therapy for sleep apnoea

ADDITIONAL INFORMATION

Expertise

I am Past President of the European Respiratory Society 2020-21 (who nominated me).

I am Honorary Consultant Respiratory and Sleep Physician with 25 years of clinical experience in managing chronic respiratory and sleep disorders.

I am Covid-19 Task Force Lead for European Respiratory Society 2020- and worked front-line in covid-19 patient care.

I was Education Workpackage Lead of European Union FP7 project PREPARE (2014 - 2021) on Pandemic Preparedness. I have developed and lead international multiagency courses on Pandemic Preparedness including influenza escalating scenarios.

I have carried out academic research on respiratory devices including nebulisers, continuous positive airway pressure therapy machines and non invasive ventilators including drug delivery during their use.

I have carried out randomised controlled crossover trial of telemonitoring in chronic respiratory disease, and was member of steering committee for trial of Adaptive servo ventilation in chronic heart failure patients with central sleep apnoea.

I am on the adjudication endpoint committee of trial of gene therapy in myotubular myopathy patients with respiratory failure.

I am carrying out an Early Access to Medicine assessment scheme of the drug Idebenone in Duchenne Muscular Dystrophy patients in England.

I was a co-investigator on NIHR RECOVERY-RS trial of non-invasive CPAP v high flow nasal oxygen v standard oxygen in covid pneumonia 2020-21. This trial does not involve drugs or any sponsorship.

Publications

Publications 2021-2015

Lebret M, Leotard A, Pepin JL, Windisch W, Ekkernkamp E, Pallero M, Sanchez-Quiroga M-A, Hart N, Kelly JL, Patout M, Funk GC, Duiverman ML, Masa JF, Simonds A, Murphy PB, Wijkstra PJ, Dreher M, Storre J, Khouri C, Borel J-C et al., 2021, Nasal versus oronasal masks for home non-invasive ventilation in patients with chronic hypercapnia: a systematic review and individual participant data meta-analysis, THORAX, Vol: 76, Pages: 1108-1116, ISSN: 0040-6376

Schiza S, Levy P, Martinez-Garcia MA, Pepin J-L, Simonds A, Randerath Wclose, 2021, The search for realistic evidence on the outcomes of obstructive sleep apnoea, EUROPEAN RESPIRATORY JOURNAL, Vol: 58, ISSN: 0903-1936

Humbert M, Simonds AK, 2021, Looking forward: key initiatives to improve the care of rare diseases and streamline the delivery of medicines and vaccines in Europe, AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY, Vol: 321, Pages: L616-L618, ISSN: 1040-0605

Cowie MR, Linz D, Redline S, Somers VK, Simonds AK, 2021, Sleep Disordered Breathing and Cardiovascular Disease JACC State-of-the-Art Review, JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY, Vol: 78, Pages: 608-624, ISSN: 0735-1097

Cilloniz C, Simonds A, Hansen K, Alouch J, Zar H, Nakanishi Y, Levine S, Cohen M, Dela Cruz C, Evans SE, Sanguinetti M, Vila J, Mangano JD, Ferrer R, Criado L, Garcia JP, Correcher Z, Rodriguez-Hurtado D, Terrazas C, Munoz-Almagro C, Garcia-Vidal C, Aoun Z, Amirav I, 2021, Pulse oximetry is an essential tool that saves lives: a call for standardisation, EUROPEAN RESPIRATORY JOURNAL, Vol: 57, ISSN: 0903-1936

Chalmers JD, Crichton ML, Goeminne PC, Cao B, Humbert M, Shteinberg M, Antoniou KM, Ulrik CS, Parks H, Wang C, Vandendriessche T, Qu J, Stolz D, Brightling C, Welte T, Aliberti S, Simonds AK, Tonia T, Roche Nclose, 2021, Management of hospitalised adults with coronavirus disease 2019 (COVID-19): a European Respiratory Society living guideline, EUROPEAN RESPIRATORY JOURNAL, Vol: 57, ISSN: 0903-1936

Schiza S, Simonds A, Randerath W, Fanfulla F, Testelmans D, Grote L, Montserrat JM, Pepin J-L, Verbraecken J, Ersu R, Bonsignore MRclose, 2021, Sleep laboratories reopening and COVID-19: a European perspective, EUROPEAN RESPIRATORY JOURNAL, Vol: 57, ISSN: 0903-1936

Chen Y, Postmus D, Cowie MR, Woehrle H, Wegscheider K, Simonds AK, Boezen M, Somers VK, Teschler H, Eulenburg Cclose, 2021, Using joint modelling to assess the association between a time-varying biomarker and a survival outcome: an illustrative example in respiratory medicine, EUROPEAN RESPIRATORY JOURNAL, Vol: 57, ISSN: 0903-1936

Janssen DJA, Ekstrom M, Currow DC, Johnson M, Maddocks M, Simonds AK, Tonia T, Marsaa K COVID-19: Guidance on Palliative care from a European Respiratory Society International Task Force. European Respiratory Journal 2020; DOI: 10.1183/13993003.02583-2020.

Simonds AK. 'Led by science', evidence gaps and the risks of aerosol transmission of SARS-CoV-2. Resuscitation 2020;152:205-207

Chatwin M, Simonds AK. Long term mechanical insufflation-exsufflation cough assistance in neuromuscular disease: Patterns of use and lessons for application. 2020, Resp Care; 65:135-143.

Javed F, Tamisier R, Pepin J-L, Cowie MR, Wegscheider K, Angermann C, d'Ortho M-P, Erdmann E, Simonds AK, Somers VK, Teschler H, Levy P, Armitstead J, Woehrle H et al., 2019, Association of serious adverse events with Cheyne-Stokes respiration characteristics in patients with systolic heart failure and central sleep apnoea: A SERVE-Heart Failure substudy analysis., Respirology

Cowie MR, Gallagher AM, Simonds AK, 2018, Treating central sleep apnoea in heart failure: is pull better than push?, European Journal of Heart Failure, Vol: 20, Pages: 1755-1759, ISSN: 1388-9842

Simonds AK. Eur Respir J. 2018 Nov 22;52(5). pii: 1801969. doi: 10.1183/13993003.01969-2018. Print 2018 Nov. Happy ever after? A new assessment tool for long-term noninvasive ventilation: the S3-NIV questionnaire.

Brill AK, Pickersgill R, Moghal M, Morrell MJ, Simonds AK. Mask pressure effects on the nasal bridge during short-term non invasive ventilation. ERJ Open Res. 2018 Apr 9;4(2). pii: 00168-2017. doi: 10.1183/23120541.00168-2017. eCollection 2018 Apr.

Simonds AK Influenza news from the frontline - what's happening?

ERJ Open Research 2018 4: 00020-2018; DOI: 10.1183/23120541.00020-2018

Finkel RS, Mercuri E, Meyer OH, Simonds AK, Schroth MK, Graham RJ, Kirschner J, Iannaccone ST, Crawford TO, Woods S, Muntoni F, Wirth B, Montes J, Main M, Mazzone ES, Vitale M, Snyder B, Quijano-Roy S, Bertini E, Davis RH, Qian Y, Sejersen T; SMA Care group. Diagnosis and management of spinal muscular atrophy: Part 2: Pulmonary and acute care; medications, supplements and immunizations; other organ systems; and ethics. Neuromuscul Disord. 2018 Mar;28(3):197-207. doi: 10.1016/j.nmd.2017.11.004.

Mercuri E, Finkel RS, Muntoni F, Wirth B, Montes J, Main M, Mazzone ES, Vitale M, Snyder B, Quijano-Roy S, Bertini E, Davis RH, Meyer OH, Simonds AK, Schroth MK, Graham RJ, Kirschner J, Iannaccone ST, Crawford TO, Woods S, Qian Y, Sejersen T; SMA Care Group. Diagnosis and management of spinal muscular atrophy: Part 1: Recommendations for diagnosis, rehabilitation,

orthopedic and nutritional care. *Neuromuscul Disord.* 2018 Feb;28(2):103-115. doi: 10.1016/j.nmd.2017.11.005.

8. Holger Woehrle, Martin R. Cowie, Christine Eulenburg, Anna Suling, Christiane Angermann, Marie-Pia d'Ortho, Erland Erdmann, Patrick Levy, Anita K. Simonds, Virend K. Somers, Faiez Zannad, Helmut Teschler, and Karl Wegscheider. Adaptive servo ventilation for central sleep apnoea in heart failure: SERVE-HF on-treatment analysis. *Eur Respir J.* 2017 Aug; 50(2): 1601692.

Atalla A, Carlisle TW, Simonds AK, Cowie MR, Morrell MJ, 2017, Sleepiness and activity in heart failure patients with reduced ejection fraction and central sleep-disordered breathing, *SLEEP MEDICINE*, Vol: 34, Pages: 217-223, ISSN: 1389-9457

10. Brill A-K, Moghal M, Morrell MJ, Simonds AK, 2017, Randomized crossover trial of a pressure sensing visual feedback system to improve mask fitting in noninvasive ventilation., *Respirology*, Vol: 22, Pages: 1343-1349

Carlisle T, Ward NR, Atalla A, Cowie MR, Simonds AK, Morrell MJ, 2017, Investigation of the link between fluid shift and airway collapsibility as a mechanism for obstructive sleep apnea in congestive heart failure, *PHYSIOLOGICAL REPORTS*, Vol: 5, ISSN: 2051-817X

Hind M, Polkey MI, Simonds AK, 2017, Homeward Bound: A Centenary of Home Mechanical Ventilation, *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*, Vol: 195, Pages: 1140-1149, ISSN: 1073-449X

McAuley J, Taylor R, Simonds A, Chawda S, 2017, Respiratory difficulty with palatal, laryngeal and respiratory muscle tremor in adult-onset Alexander's disease., *BMJ Case Rep*, Vol: 2017

14. Mitchell S, Riha RL, Rohde G, Simonds AK, 2017, Continuing professional development: introducing the ERS International Certificate in Respiratory Sleep Medicine, *BREATHE*, Vol: 13, Pages: 11-14, ISSN: 1810-6838

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Simonds AK, 2017, Progress in respiratory management of bulbar complications of motor neuron disease/amyotrophic lateral sclerosis? *THORAX*, Vol: 72, Pages: 199-199, ISSN: 0040-6376

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Eulenburg C, Wegscheider K, Woehrle H, Angermann C, d'Ortho M-P, Erdmann E, Levy P, Simonds AK, Somers VK, Zannad F, Teschler H, Cowie MR, 2016, Mechanisms underlying increased mortality risk in patients with heart failure and reduced ejection fraction randomly assigned to adaptive servoventilation in the SERVE-HF study: results of a secondary multistate modelling analysis, *LANCET RESPIRATORY MEDICINE*, Vol: 4, Pages: 873-881, ISSN: 2213-2600

McDermott CJ, Bradburn MJ, Maguire C, Cooper CL, Baird WO, Baxter SK, Cohen J, Cantrill H, Dixon S, Ackroyd R, Baudouin S, Bentley A, Berrisford R, Bianchi S, Bourke SC, Darlison R, Ealing J, Elliott M, Fitzgerald P, Galloway S, Hamdalla H, Hanemann CO, Hughes P, Imam I, Karat D, Leek R, Maynard N, Orrell RW, Sarela A, Stradling J, Talbot K, Taylor L, Turner M, Simonds AK, Williams T, Wedzicha W, Young C, Shaw PJ, 2016, DiPALS: Diaphragm Pacing in patients with Amyotrophic Lateral Sclerosis - a randomised controlled trial, *HEALTH TECHNOLOGY ASSESSMENT*, Vol: 20, Pages: 1-+, ISSN: 1366-5278

Rosenzweig I, Glasser M, Crum WR, Kempton MJ, Milosevic M, McMillan A, Leschziner GD, Kumari V, Goadsby P, Simonds AK, Williams SCR, Morrell MJ, 2016, Changes in Neurocognitive Architecture in Patients with Obstructive Sleep Apnea Treated with Continuous Positive Airway Pressure, *EBIOMEDICINE*, Vol: 7, Pages: 221-229, ISSN: 2352-3964

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Simonds AK, 2016, Home Mechanical Ventilation: An Overview, ANNALS OF THE AMERICAN THORACIC SOCIETY, Vol: 13, Pages: 2035-2044, ISSN: 1546-3222

Chatwin M, Tan HL, Bush A, Rosenthal M, Simonds AK, 2015, Long term non-invasive ventilation in children: impact on survival and transition to adult care., PLOS One, Vol: 10, Pages: e0125839-e0125839, ISSN: 1932-6203

Frigerio P, Longhini F, Sommariva M, Stagni EG, Curto F, Redaelli T, Ciboldi M, Simonds AK, Navalesi P, 2015, Bench Comparative Assessment of Mechanically Assisted Cough Devices, RESPIRATORY CARE, Vol: 60, Pages: 975-982, ISSN: 0020-1324

Mitchell S, Simonds A, Andreas S, Bonsignore MR, Cooper B, Donic V, McNicholas WT, Morrell M, Palange P, Prest G, Riha R, Trang H, Randerath W, van der Grinten C, Verbraecken J, de Backer W, 2015, Introducing a core curriculum for respiratory sleep practitioners., Breathe, Vol: 11, Pages: 50-56, ISSN: 1810-6838

Pearse SS, Sharma R, Wong T, Morrell M, Simonds A, Lane R, Mason M, Polkey M, Cowie M, Vazir A, 2015, Accuracy of a pacemaker-derived algorithm for the diagnosis of sleep disordered breathing in heart failure, EUROPEAN JOURNAL OF HEART FAILURE, Vol: 17, Pages: 297-297, ISSN: 1388-9842

Ramsay M, Mandal S, Suh E-S, Steier J, Douiri A, Murphy PB, Polkey M, Simonds A, Hart N, 2015, Parasternal electromyography to determine the relationship between patient-ventilator asynchrony and nocturnal gas exchange during home mechanical ventilation set-up, THORAX, Vol: 70, Pages: 946-952, ISSN: 0040-6376

Rutkowski A, Chatwin M, Koumbourlis A, Fauroux B, Simonds A, 2015, 203rd ENMC international workshop: Respiratory pathophysiology in congenital muscle disorders: Implications for pro-active care and clinical research. NEUROMUSCULAR DISORDERS, Vol: 25, Pages: 353-358, ISSN: 0960-8966

Simonds AK, Reeves EL, 2015, ERJ Open Research: FAQs, EUROPEAN RESPIRATORY JOURNAL, Vol: 46, Pages: 318-320, ISSN: 0903-1936

Chapter: Simonds AK. 2017, Abnormal Sleep Conditions and Work, Chapter 36 p495-605 in 'Parkes Occupation Lung Disorders' Eds Newman Taylor A, Cullinan P, Blanc P and Pickering A. CRC Press, Taylor Francis. London ISSN 13:978-1-4822-4070-2

Books Edited 2012-20120

1. ERS Practical handbook of Non invasive Respiratory Support 2015 Ed A K Simonds ERS Publications
2. ERS Handbook of Respiratory Sleep Medicine Eds A K Simonds, W de Backer. ERS Publications. 2012
3. ERS Handbook of Self Assessment in Respiratory Medicine 111 Case vignettes. Eds K Bloch, P Palange and AK Simonds, ERS Publications 2012
4. Handbook of Respiratory Medicine Eds P Palange, A K Simonds. ERS Publications 1st edition 2010, Reprint 2011, 2nd edition 2013

Projects

I was a co-investigator on NIHR RECOVERY-RS trial of non-invasive CPAP v high flow nasal oxygen v standard oxygen in covid pneumonia 2020-21. This trial does not involve drugs or any sponsorship.

I and Lead clinician for development of NICE guidelines for obstructive sleep apnoea hypopnoea and obesity hypoventilation syndrome. 2018- present.

Principal investigator for trial of telemonitoring in chronic respiratory disease (Thorax 2016) (funding National Institute Health Research England)

Principal investigator numerous trials of non-invasive ventilation in respiratory disorders and neuromuscular disease.

Steering committee member for trial of adaptive servo ventilation in heart failure patients with central sleep apnoea 2016.

Principal investigator of trial : Evaluation of droplet dispersion during non-invasive ventilation, oxygen therapy, nebuliser treatment and physiotherapy in clinical practice: implications for pandemic

influenza and other airborne infections - funded National Institute of Health Research England 2010.

Memberships Member European Respiratory Society, Vice President 2018-19, President elect 2019-2020, president 2020-2021.
British Thoracic Society 1980- present
Clinical Lead NICE Guideline in Obstructive Sleep Apnoea Hypopnoea and Obesity Hypoventilation Syndrome Committee 2018 - present
Member of American Thoracic Society 2000- present

Other Relevant Information Clinical advisor to patient or family groups:

Myotubular Trust UK
Duchenne Pathfinders