

Dr Nicholas Hopkinson

Clinical Senior Lecturer



Dr Nicholas Hopkinson qualified in medicine at Cambridge University and the London Hospital Medical College and went on to train in respiratory and general internal medicine at St George's and St Thomas' Hospitals.

He is now a clinical senior lecturer at The National Heart and Lung Institute of Imperial College. He is based at the Royal Brompton Hospital where he runs the Advanced COPD service and is also involved in COPD care at Chelsea & Westminster Hospital.

His research interests as part of The London Respiratory Muscle Group (www.respiratorymuscle.com) are in pulmonary physiology, skeletal muscle impairment and exercise limitation in COPD and other respiratory conditions. Publications have addressed the influence of genetic polymorphisms, corticosteroid therapy and the role of acute exacerbations in skeletal muscle impairment in this condition. He has also published work on the impact of bronchoscopic lung volume reduction on dynamic hyperinflation in patients with COPD and on transcranial magnetic stimulation of the diaphragm motor cortex in health and disease. Techniques employed include invasive measurement of respiratory pressures, cardiopulmonary exercise testing and the use of magnetic nerve stimulation to obtain non-volitional measures of muscle function. He is also involved in research with Imperial College's Centre for Pervasive Sensing to develop more sophisticated integrated physiology and activity sensors to monitor patients in their home environment.

His work has been funded by The UK Medical Research Council, The British Lung Foundation, The Moulton Medical Foundation and The Wellcome Trust and he is on the steering committee of the EU/IMI PROactive project to develop a patient reported outcome or physical activity in COPD.

Publications:

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Hopkinson NS, Eleftheriou KI, Payne J, Nickol AH, Hawe E, Moxham J, Montgomery H & Polkey MI. Bradykinin receptor gene polymorphism and strength in chronic obstructive pulmonary disease. *Am J Clin Nutr* 2006 (83) 912-917

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Hopkinson NS, Nickol AH, Payne J, Hawe E, Man W D-C, Moxham J, Montgomery H, Polkey MI. Angiotensin converting enzyme genotype and strength in chronic obstructive pulmonary disease. *Am J Resp Crit Care Med* 2004 170 1-5