



Professor Douglas Corfield, PhD

I am presently appointed as Head of the Division of Medical Education and Programme Director for the MBChB, a role in which I am responsible for the strategic leadership and management of an undergraduate programme that runs over 5 year and comprises approx. 2200 students

My professional background is as a physiologist with more than 25 years of experience of undergraduate medical and biomedical education. Over this time, I have held senior leadership roles in medical education including programme management, teaching delivery and curriculum development in six distinct undergraduate medical curricula - initially in London teaching hospitals and subsequently at Keele and Manchester Medical Schools. I have experience of programme quality assurance as external examiner for four medical programmes and through GMC and University reviews of the Keele and Manchester programmes; as a member of Faculty Teaching & Learning committees I have scrutinised a range of health care programmes. At Keele University, I was a founder member of the senior team that created the school and implemented the Manchester MBChB at Keele and, subsequently, designed and implemented the new Keele curriculum. I have led substantive curriculum developments for our present MBChB at the University of Manchester.

My research has two main components, each directed to a better understanding of the physiology and pathophysiology of cardiovascular and respiratory regulation in humans, using non-invasive measures of brain function (positron emission tomography – PET and functional magnetic resonance imaging - fMRI) alongside more 'classical' physiological approaches.

Selected publications:

Vidyasagar R, Greyling A, Draijer R, Corfield DR and Parkes LM (2013) The effect of black tea and caffeine on regional cerebral blood flow measured with arterial spin labeling.

Journal of Cerebral Blood Flow & Metabolism advance online publication;

doi:10.1038/jcbfm.2013.40

Morrell MJ, Jackson ML, Twigg GL, Ghiassi R, McRobbie DW, Quest RA, Pardoe H, Pell GS, Abbott DF, Rochford PD, Jackson GD, Pierce RJ, O'Donoghue FJ and Corfield DR. (2010) Changes in brain morphology in patients with obstructive sleep apnoea. Thorax 65: 908-14.

McKay LC, Critchley HD, Murphy K, Frackowiak RS, and Corfield DR. (2010) Sub-cortical and brainstem sites associated with chemo-stimulated increases in ventilation in humans. NeuroImage 49:2526-2535.

McKay, L.C., Adams, L., Frackowiak, R.S.J., and Corfield, D.R. (2008) A bilateral cortico-bulbar network associated with breath holding in humans, determined by functional magnetic resonance imaging. *Neuroimage*; 40:1824-1832.