**Educational outputs of the Green Nephrology Fellowship 2009-10**

**Medical leadership skills development:**

* Dr Connor set up a network of “green champions” in renal units, carried out a baseline survey and analysed and disseminated results, developed practical case studies / business cases for improvement projects, and presented on Green Nephrology to senior groups including the Clinical Directors Forum and the Association of Renal Managers. Case studies/ business cases developed to date:
1. Conserving water in haemodialysis (potential financial savings (England alone): £1.6 million/year);
2. Retrofit of heat exchangers to dialysis machines (potential financial savings (UK): £50,000/year);
3. Telephone clinics in follow up of renal transplant recipients (significant potential for financial savings but dependent on local negotiation of tariff);
4. Reduce, re-use, recycle in the dialysis unit (significant potential for financial savings with individual renal units saving >£12,000 per year from simple waste reductions).

**Academic qualifications:**

* Dr Connor attained an MD from the University of Warwick as a result of the fellowship.
* PRINCE 2 qualification obtained in project management.
* A Systems Approach to Patient Safety – short course completed, University of Warwick

**Conference presentations:**

Dr Connor presented to the British Renal Society / Renal Association annual conference in May 2010 on:

* Green Nephrology: Update on UK progress
* Poster presentation: The Follow Up of Renal Transplant Recipients by Telephone Consultation: Three Years Experience from a Single UK Renal Unit

And (by video) to the EDTNA/ERCA International Conference, Dublin, September 2010.

**Research:**

* Carbon footprint of renal care in the UK: novel work, adapting carbon footprinting methodology to allow evaluation of a clinical service.
* Carbon footprint of the haemodialysis care pathway (in-centre versus home haemodialysis).

**Publications under review/accepted to date:**

* Climate change and health: the role of the healthcare professional. John Somner, Frances Mortimer, **Andrew Connor**, Mark Thompson ***BMJ Learning***, published online November 2010. *Available at: http://learning.bmj.com/learning/search-result.html?&moduleId=10017515*
* Climate change and health: the basics of climate science and the impacts of climate change. ***BMJ Learning***, John Somner, Frances Mortimer, **Andrew Connor**, Mark Thompson ***BMJ Learning***, published online November 2010. *Available at: http://learning.bmj.com/learning/search-result.html?&moduleId=10017629*
* The Carbon Footprints of Home and In-centre Maintenance Haemodialysis in the UK. **Connor A**, Lillywhite R, Cooke MW. *Accepted for publication by Haemodialysis International.*
* The Carbon Footprint of a Renal Service in the United Kingdom. **Connor A**, Lillywhite R, Cooke MW. ***Quarterly Journal of Medicine*** *Advance Access published online on August 18, 2010*
* Saving Carbon and Time. The Follow Up of Renal Transplant Recipients by Telephone Consultation: Three Years Experience from a Single UK Renal Unit. **Connor A**, Mortimer F, Higgins R. ***Clinical Medicine*** *2011 Jun;11(3):242-6.*
* Green Waste Management for Renal Medicine Units. **Connor A**, Thomson M, Mortimer F. ***British Journal of Renal Medicine*** *2010;15(2):7-11.*
* Eyes, economics and the environment - should green issues drive changes in ophthalmic care? Yes. Somner JEA, **Connor A**, Benjamin L. ***Eye (Lond)****. Eye (Lond). 2010 May 21. [Epub ahead of print]*
* The Green Nephrology Survey of Sustainability in Renal Units in England, Scotland and Wales. Connor, A. and Mortimer, F. (2010). ***Journal of Renal Care***, 36: 153–160*.*
* Heat exchangers in HD machines achieve significant environmental and cost savings. Campbell F, Milne S, **Connor A,** Stevens P. *Presented in abstract form at the Renal Association May 2010.*
* Green Nephrology: Reducing kidney care’s carbon footprint. **Connor A. *British Journal of Renal Medicine*** *2010;15(1)*
* Toward Green Dialysis: A Case Study to Illustrate and Encourage the Salvage of Reject Water. **Connor A.** Milne S. Owen A. Boyle G. Mortimer F. Stevens PE. ***Journal of Renal Care*** *2010;36(2),68-72.*
* Clinical Transformation – the Key to Green Nephrology. **Connor A**, Mortimer F, Tomson C. ***Nephron Clinical Practice*** *2010;116(3):201-206.*
* Renal medicine can take the lead in greener healthcare. **Connor A**, Tomson C, Mortimer F. ***British Journal of Renal Medicine*** *2009/10;14(4):19-22.*

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