Pathways to sustainable healthcare

Professor Donal O'Donoghue Consultant Renal Physician

Some service areas are already leading the way. For example, Green Nephrology includes a network which brings together clinicians, patients, renal technicians and industry partners.

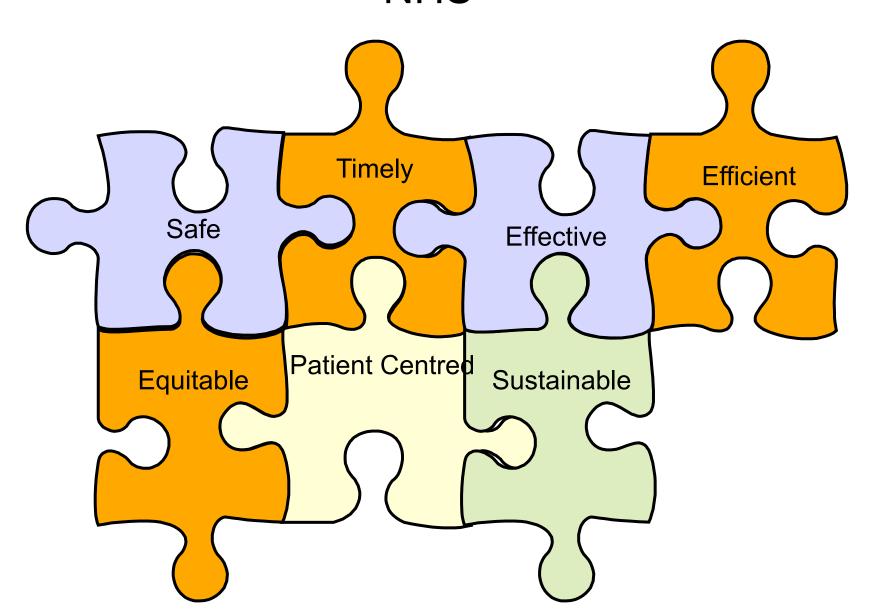
5% of transport emissions in the UK are estimated to be accounted for by healthcare facilities.

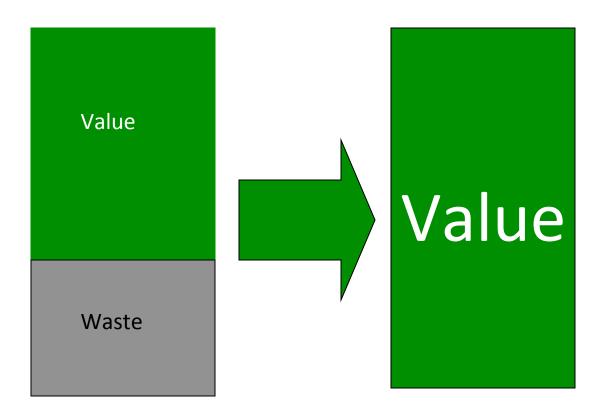
Ingredients in a steak and kidney pie served in one hospital had travelled a total of 31,000 km.

Green Nephrology

- 1. Small, well-organised, acute and chronic care
- 2. IT literate EPR / reporting
- 3. High status
- 4. High impact
 - 2% NHS budget
 - Patient for life
 - Tertiary centres high travel
 - Resource intensive

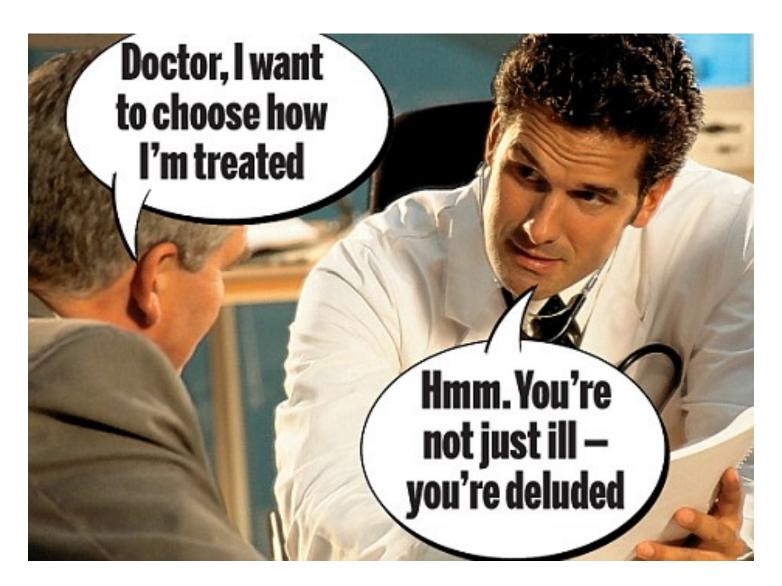
"Quality is the only organising principle of the NHS"





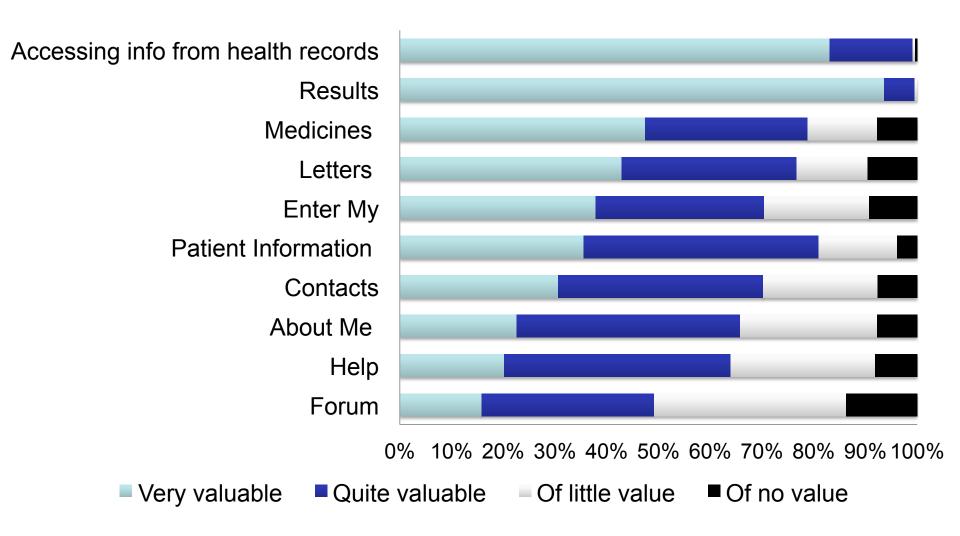
Value in Health Care

"Measurement of value is challenging...the critical first step is measurement. Provider organisations need to capture data on outcomes that matter to patients and carers."



http://sdm.rightcare.nhs.uk/

Which sections of RPV do you Value?



Four principles of sustainable healthcare

- 1. Disease prevention
- 2. Patient empowerment and self care
- 3. Lean clinical systems
- 4. Adoption of low carbon health technologies



Green Nephrology



Kidney Care

What will kidney care look like in 10 or 15 years' time, when carbon rationing is re-shaping the NHS? Will patients still travel three times a week to access dialysis, or cover hundreds of miles to transplant clinic? Will they have greater responsibility for their own care? Will wastewater be flushed down the drain, or carefully conserved for secondary and tertiary use? Will discarded bottles, packaging and dialysis lines still go uncounted?

The Campaign for Greener Healthcare has formed a partnership with the Renal Association, the British Renal Society, NHS Kidney Care, the NHS Sustainable Development Unit, the National Kidney Federation and Baxter Healthcare to improve the sustainability of kidney care through a Green Nephrology Programme.



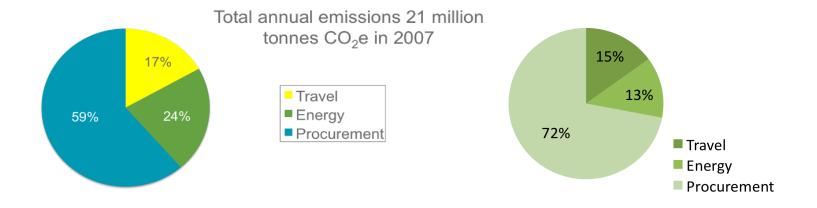
Some savings

PROJECT	CO2 SAVINGS/yr	COST SAVINGS/yr	REPLICATED
Transplant tele-clinics*	40 / patient		Yes
Retro-fit heat exchangers	22,600	3,998	Yes
Baler / plastic recycling*		4,150	Yes
Reject water salvage (de novo)	750	10,558	Yes
Sustainable Action Planning*	32,588	32,200	Partly
E-consultation*	40 / patient		Yes
Waste management*	12,100	32,118	Partly
IV antibiotic administration*	6,500	9,830	Yes
Auto shutdown PCs		351	Yes
Paper management	231	139	Yes
Tele-dialysis	2445		No
Total	77,304kgCO ₂ /yr	£93,344/yr	

The carbon footprint of a renal service in the United Kingdom

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"Often change need not be cajoled or coerced. Instead it can be unleashed."

