

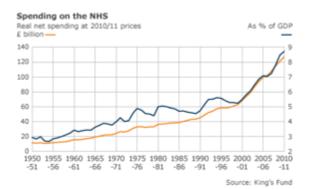
An introduction to Sustainable Healthcare @SusHealthcare Please tweet, engage, get in touch!



CENTRE for SUSTAINABLE HEALTHCARE inspire • empower • transform Rachel Stancliffe, Director Centre for Sustainable Healthcare Sustainable Dentistry, 29th June 2018

- B. Why should healthcare professionals be concerned about sustainability?
- C. What general steps have been taken to address sustainability in healthcare?
- D. What steps have been taken towards sustainability in Dentistry?

Healthcare challenges in the 21st century



ECONOMIC

- Rising demand
- Financial crisis
- Waste

ENVIRONMENTAL

- Climate change
- Air and water pollution
- Water scarcity

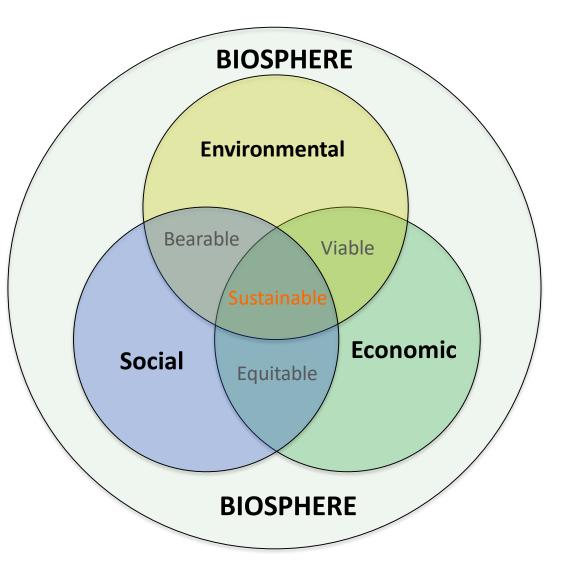


SOCIAL

- Inequalities
- Safety / quality
- Patient experience
- Staffing / morale



A healthcare system is sustainable if it works within its financial, environmental and social resource limits, improving and protecting health now and for future generations



B. Why should healthcare professionals be concerned?



B. Why should healthcare professionals be concerned about sustainability?

1. Climate Change is the biggest health threat of the 21st century. *Dr. Margaret Chan WHO Director-General*



THE LANCET

"Climate change is the biggest global health threat of the 21st century."

The Lowest Commission case \$541

-	Carespondence	Artika	A-61/34	The Lancet Commission
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'Although vector-borne diseases will expand their reach and death tolls, the indirect effects of climate change on water, food security, and extreme climatic events are likely to have the biggest effect on global health.'

Lancet & UCL (2009). Managing the health effects of climate change.

B. Why should healthcare professionals be concerned about sustainability?

- Climate Change is the biggest health threat of the 21st century
- 2. Healthcare contributes to climate change because of its high carbon emissions



Greenhouse gas emissions of healthcare

Healthcare emits:

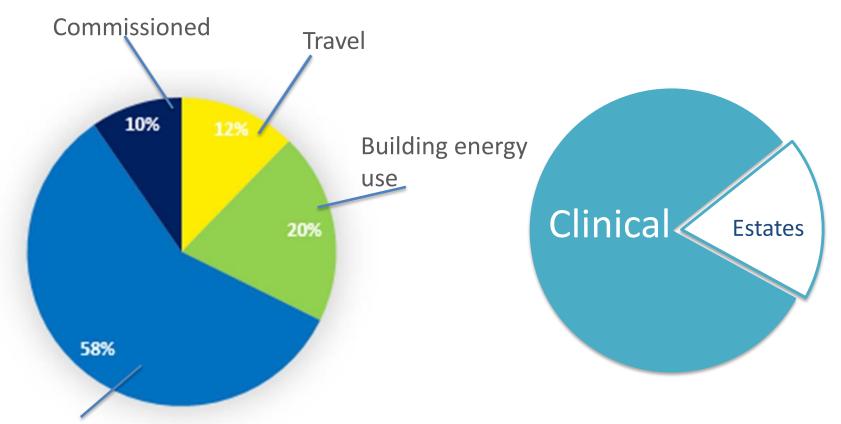
- 10% GHGs in the US¹,
- 7% GHGs in Australia², and
- 5% GHGs in England³

- ¹ Eckelman M J, Sherman J (2016). Environmental Impacts of the U.S. Health Care System and Effects on Public Health. *PLoS ONE* 11(6): e0157014
- ² Malik A, Lenzen M, McAlister S, McGain F. The carbon footprint of Australian health care. *Lancet Planetary Health* 2(1): e27-35

HEALTHCARE

³ Sustainable Development Unit. (2016). Carbon Footprint update for the NHS in England.

NHS England carbon footprint (22.8 million tonnes CO2e)

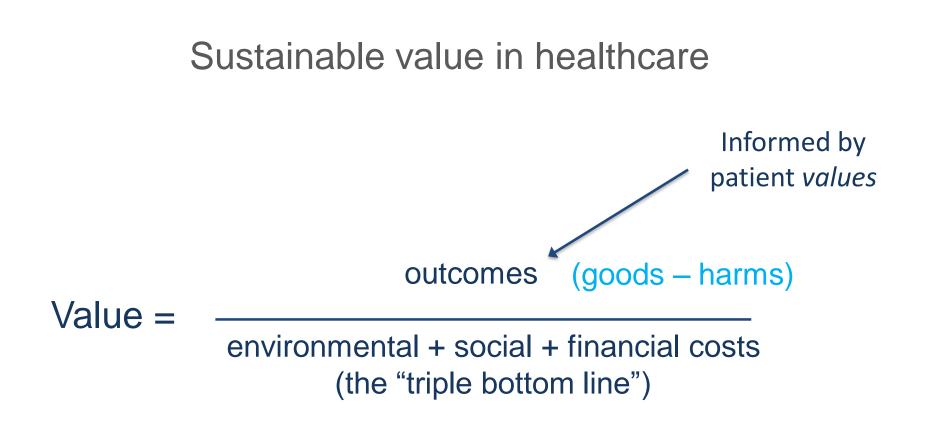


Procured (pharmaceuticals, equipment, everything else)

Sustainable Development Unit (2016). Carbon Footprint update for the NHS in England.

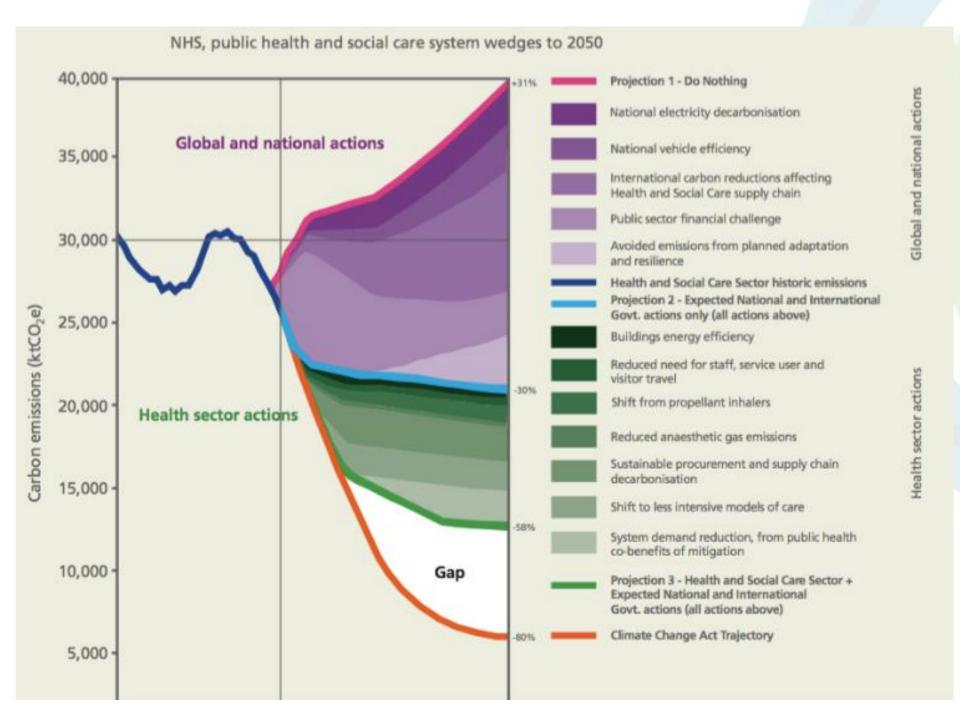
B. Why should healthcare professionals be concerned about sustainability?

- Climate Change is the biggest health threat of the 21st century
- 2. Healthcare contributes to climate change because of its high carbon emissions
- 3. Resources are finite (water and scarce metals)
- 4. Legal reasons and international agreements (2008 CCA)
- 5. Healthcare professionals are respected advocates
- 6. Sustainability can improve productivity and value, saving money along the way

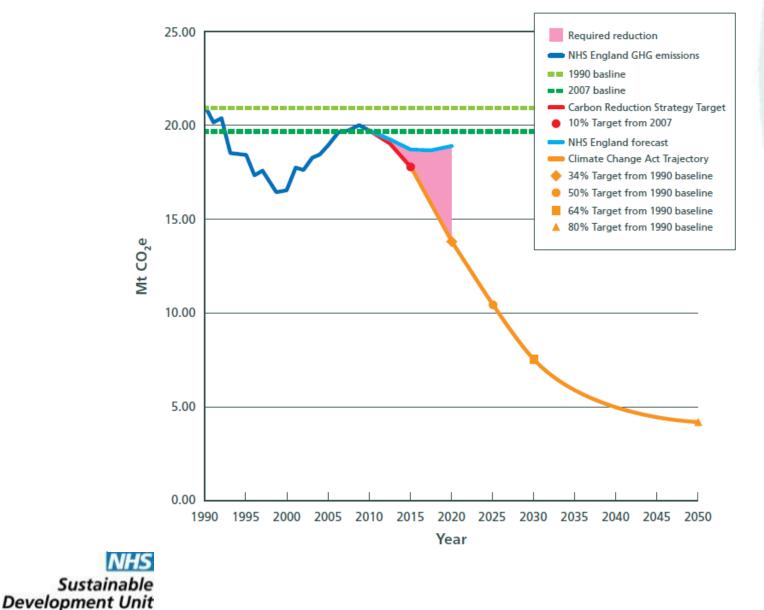




- B. Why should healthcare professionals be concerned about sustainability?
- C. What general steps have been taken to make healthcare more sustainable?



Summary of progress



Governance

- Analysing healthcare's greenhouse gas emissions and identifying its hotspots
- Securing support at executive level
- Developing organisational sustainable development management plans
- Developing partnerships to support the embedding of sustainable principles within healthcare



"Tackling climate change could be the greatest global health opportunity of the 21st century." 'No regret' policies will improve health, enhance resilience, alleviate poverty and address inequality:

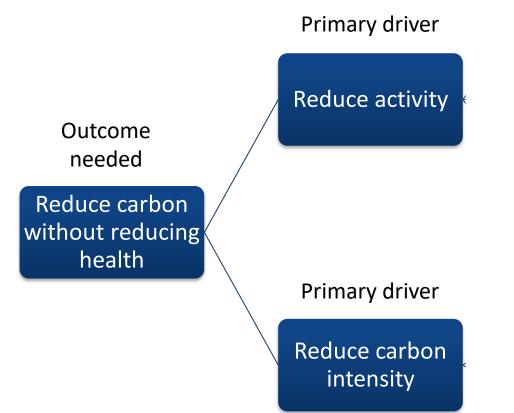
- Clean energy
- Active travel
- Housing improvements
- Green spaces

Three min. film: http://www.thelancet.com/cms/attachme nt/2033405756/2049484881/mmc2.mp4

> CENTRE for SUSTAINABLE HEALTHCARE

A Commission by The Lancet

Sustainable clinical practice

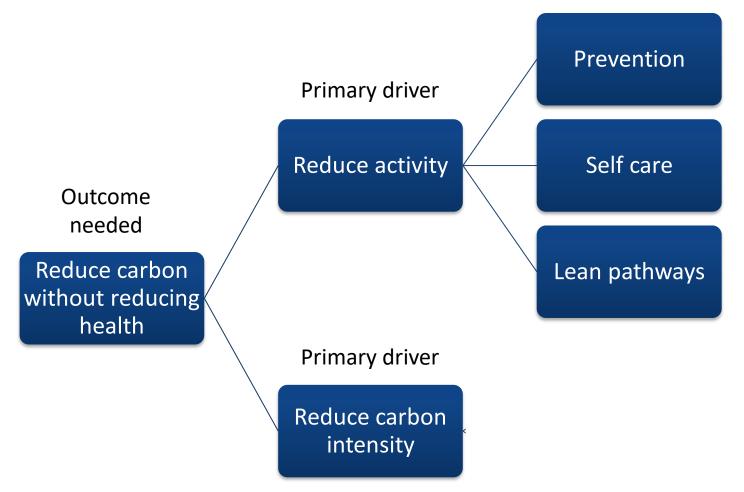


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Mortimer-F. The Sustainable Physician Clinical Medicine 2010, Vol 10, No 2: 110–11

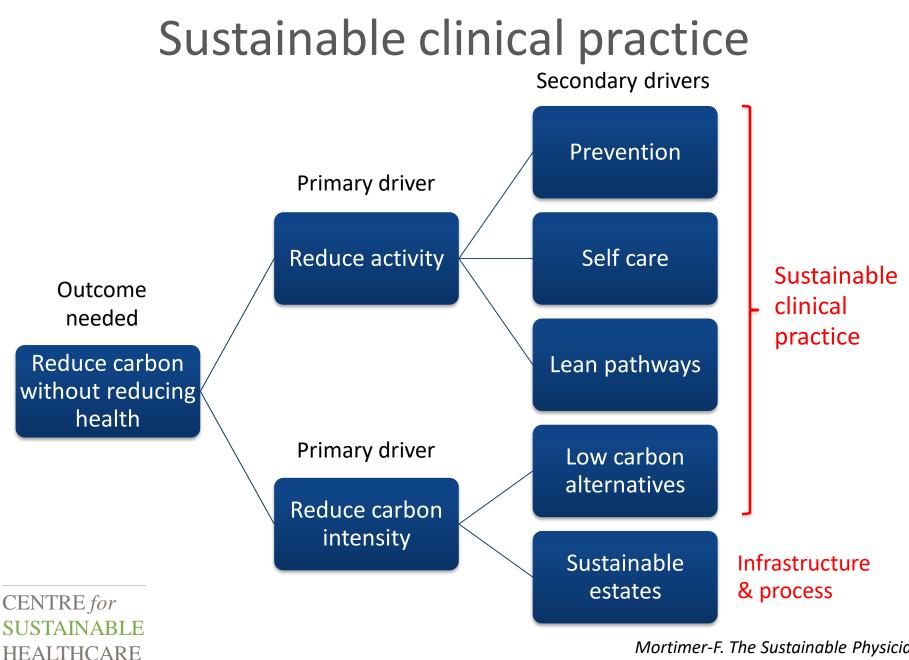
Sustainable clinical practice

Secondary drivers



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Mortimer-F. The Sustainable Physician Clinical Medicine 2010, Vol 10, No 2: 110–11



Mortimer-F. The Sustainable Physician Clinical Medicine 2010, Vol 10, No 2: 110–11

The 4 Principles of Sustainable Healthcare

- Prevention promoting health and preventing disease by tackling the causes of illnesses and inequalities
- **Patient self-care** empowering patients to take a greater role in managing their own health and healthcare
- Lean service delivery streamlining care systems to minimise wasteful activities
- Low carbon alternatives prioritising treatments and technologies with a lower environmental impact

Developed by Frances Mortimer at the Centre for Sustainable Healthcare Mortimer-F. The Sustainable Physician, Clinical Medicine 2010, Vol 10, No 2: 110–11

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D. What steps have been taken towards sustainability in Dentistry?

Working Groups

- CSH Sustainable Dentistry Programme wonderful dental scholars with input from Brett Duane
- Dental Sustainability Advisory Group with representation from: GDC, BDA, LDC, PHE, HEE, CSH and many others
- Network Dental Susnet https://networks.sustainablehealthcare. org.uk/network/dental-susnet

Carbon footprinting and Triple Bottom Line Analysis in Dentistry

- Taking a bite out of Scotland's dental carbon emissions in the transition to a low carbon future.
 Duane et al. Public Health 2012 Sep;126(9):770-7
- An estimated carbon footprint of NHS primary dental care within England. How can dentistry be more environmentally sustainable? Duane, B., Berners Lee, M., White, S., Stancliffe, R. & Steinbach, I. BDJ (2017) 223: 589–593
- Carbon Footprinting of Dentistry in England.
 Ingeborg Steinbach and Brett Duane, . PH England,



Please tweet, engage, get in touch!

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