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MSD



Climate & Healthcare: greening up HIV for the future

Amanda Clarke

Royal Sussex County Hospital



Climate and Healthcare - greening up HIV for the Future



Dr Amanda Clarke
Consultant HIV & Sexual Health
Brighton, UK

Amanda.clarke16@nhs.net

Conflict of Interest

In relation to this presentation I declare that I have no conflict of interest

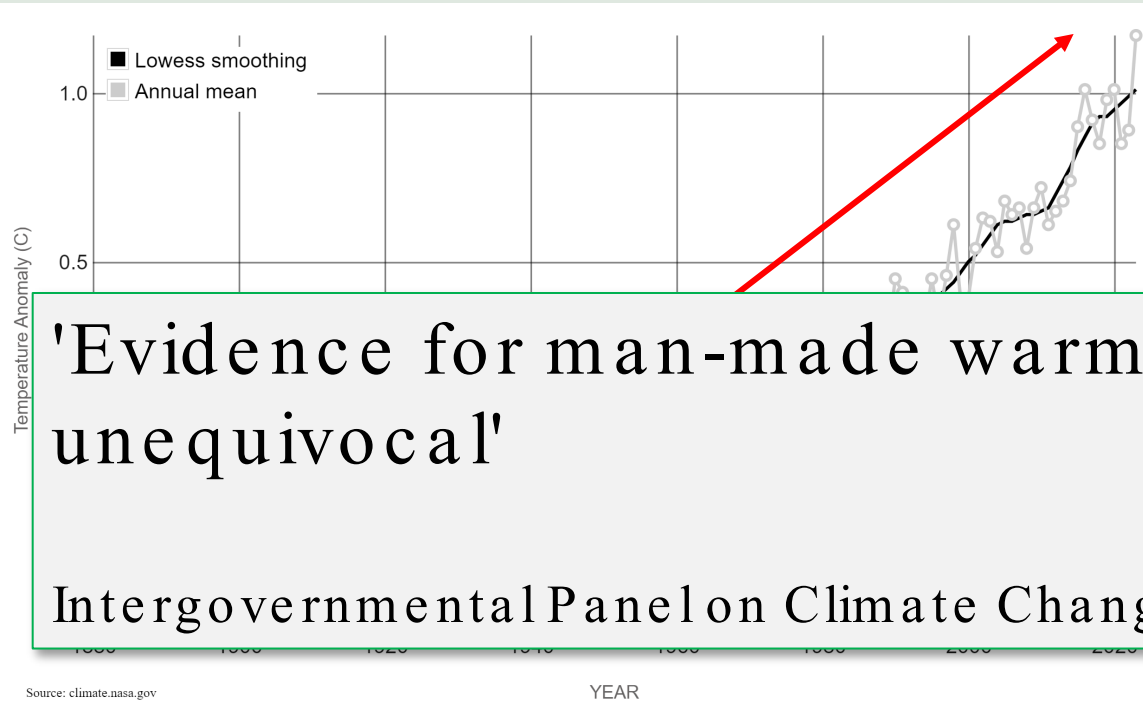
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Plan

- Background
- Climate affecting healthcare
- Healthcare affecting climate
- NHS green plan & sustainable healthcare
- Examples within HIV & Sexual Health
- What you can do
- Summary



The world is warming

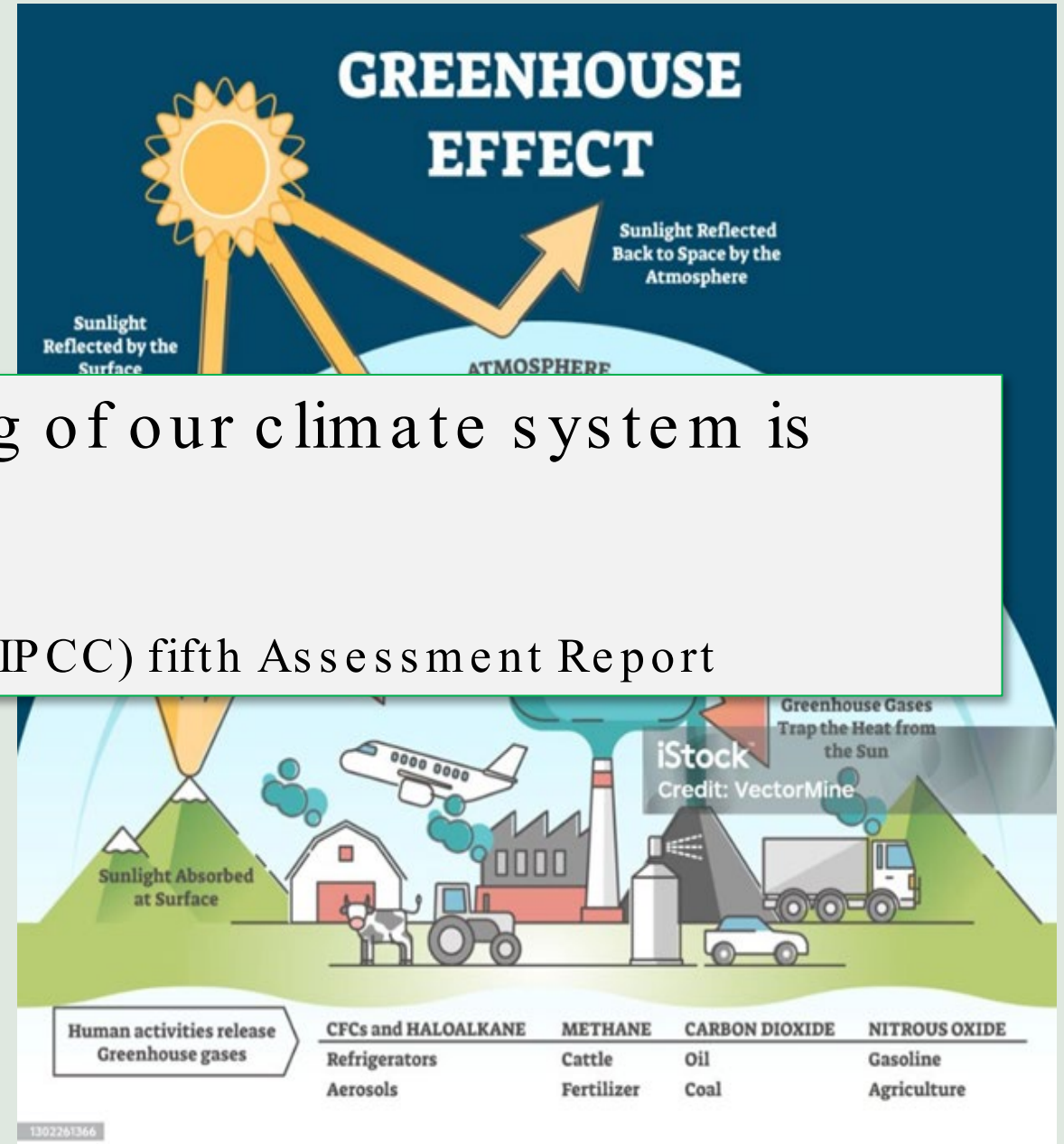


'Evidence for man-made warming of our climate system is unequivocal'

Intergovernmental Panel on Climate Change (IPCC) fifth Assessment Report

Most recent 10 years are the warmest on record

Climate.NASA.gov 2023





Brazil



Afghanistan



Kenya

MAY 2024



USA



Dubai



2023 Europe, low yield crops



China 2023, hydropower issue



Since 2020, Horn of Africa worst drought in 40 years



Sicily July 2023



Amazon 2023 - old growth forests



Icecaps melting

UK



Liverpool flood water deaths A



Suffolk Oct 2023



Climate & Energy | Climate Change

British heatwave brings hottest day of 2023 so far

By Reuters

September 10, 2023 1:57 AM GMT+1 · Updated 8 months ago

September 9, 2023



Impact of Climate Change on Human Health



Many Health organisations have now declared that the climate emergency is a health emergency

UKHACC

Source:
[Centers for Disease Control and Prevention](#)

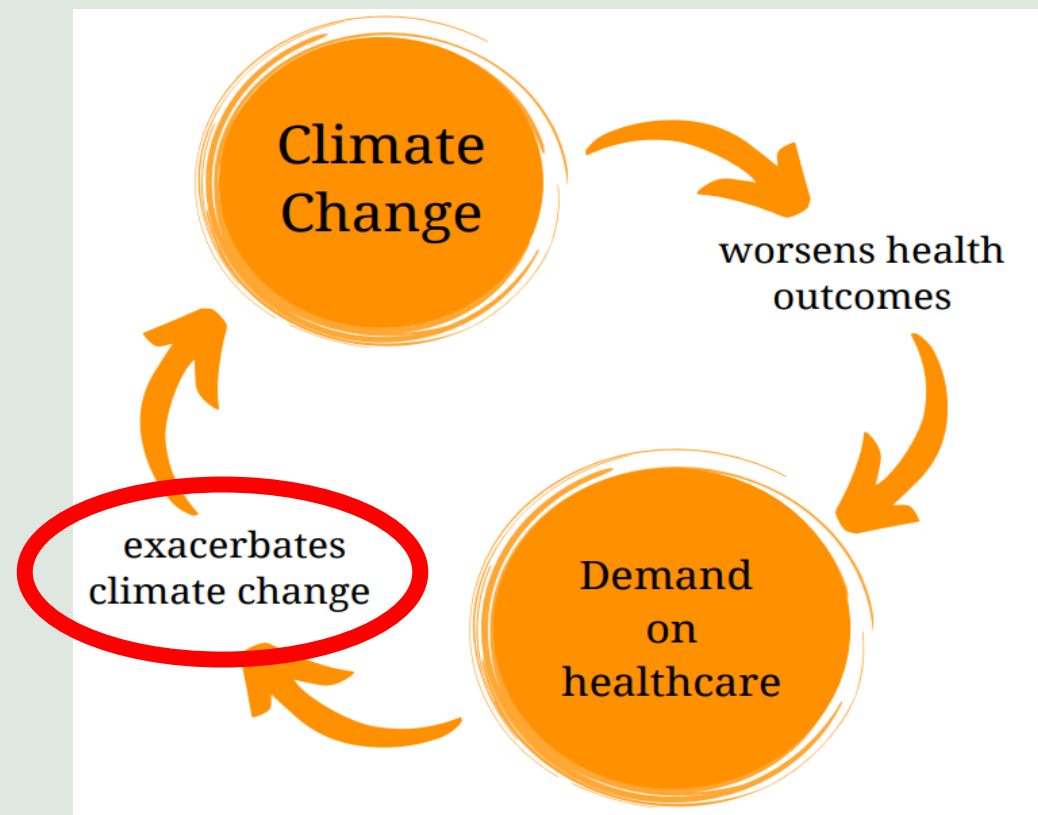
Inequalities

Disproportionately effect the most vulnerable and disadvantaged -> drives health inequality



Ella Kissi-Debrah

Climate change and Healthcare



NHS contributes
4% UK Carbon
emissions *

* NHS plan

What contributes to this?

Which has the highest (worse) carbon footprint?



GP appointment



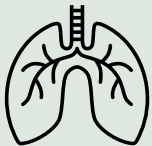
Email referral



Cannula



Outpatient appointment



Salamol asthma inhaler



Answers (KgCO₂e)



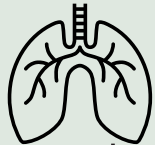
Email referral 0.004



Cannula 0.54



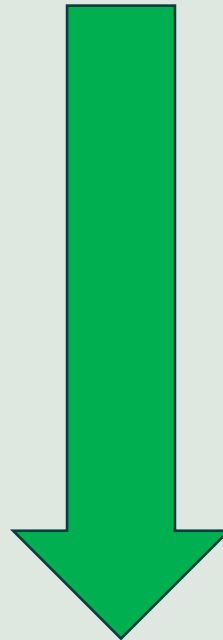
GP appointment 6



Salamol asthma inhaler 10



Outpatient appointment 23



Sources: Centre for sustainable healthcare, www.susqi.org
Travel calculator via www.lner.co.uk

Answers (KgCO₂e)



Email referral 0.004



Cannula 0.54



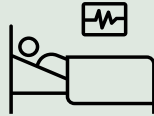
GP appointment 6



Salamol asthma inhaler 10



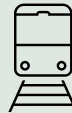
Outpatient appointment 23



1 inpatient day - low intensity 38



1 cataract surgery in UK 180



Train Brighton - Liverpool return 30



Driving Brighton-Liverpool return 103



University Hospitals Sussex
NHS Foundation Trust

Patient First, Planet First:

our green plan

In partnership with



S
ALS

MEDICAL
EQUIPMENT

ON-MEDICAL
EQUIPMENT

ro' NHS, Oct 2020



Travel and Transport



Estates and Facilities



Research and Innovation



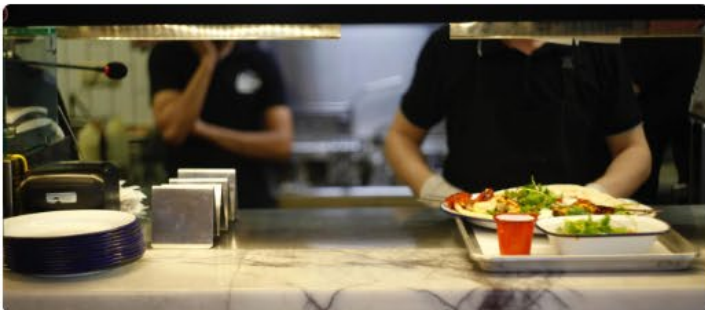
Workforce



Supply Chain and Procurement



Data and Analytics



Food and Nutrition

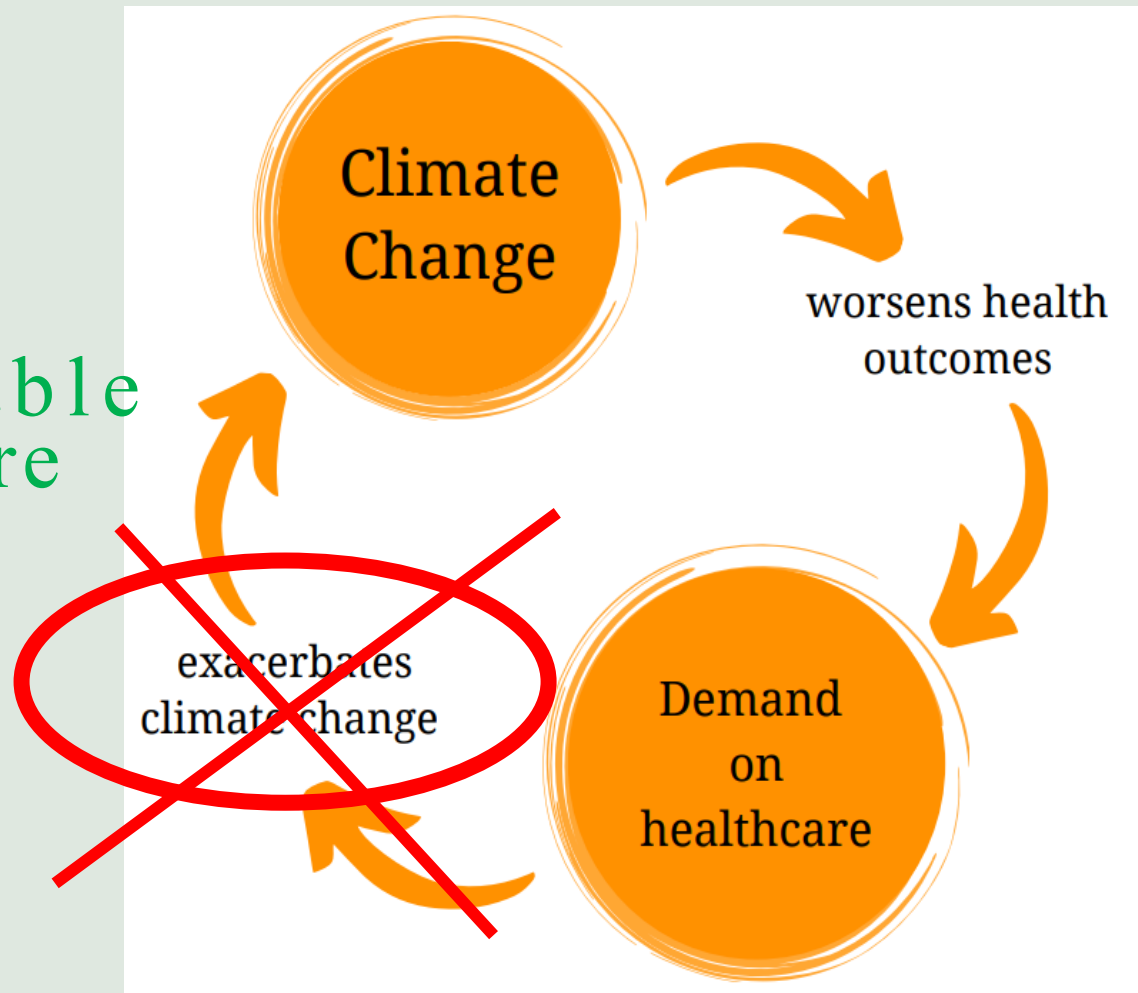


Medicines



Clinical Transformation

Climate change and Healthcare

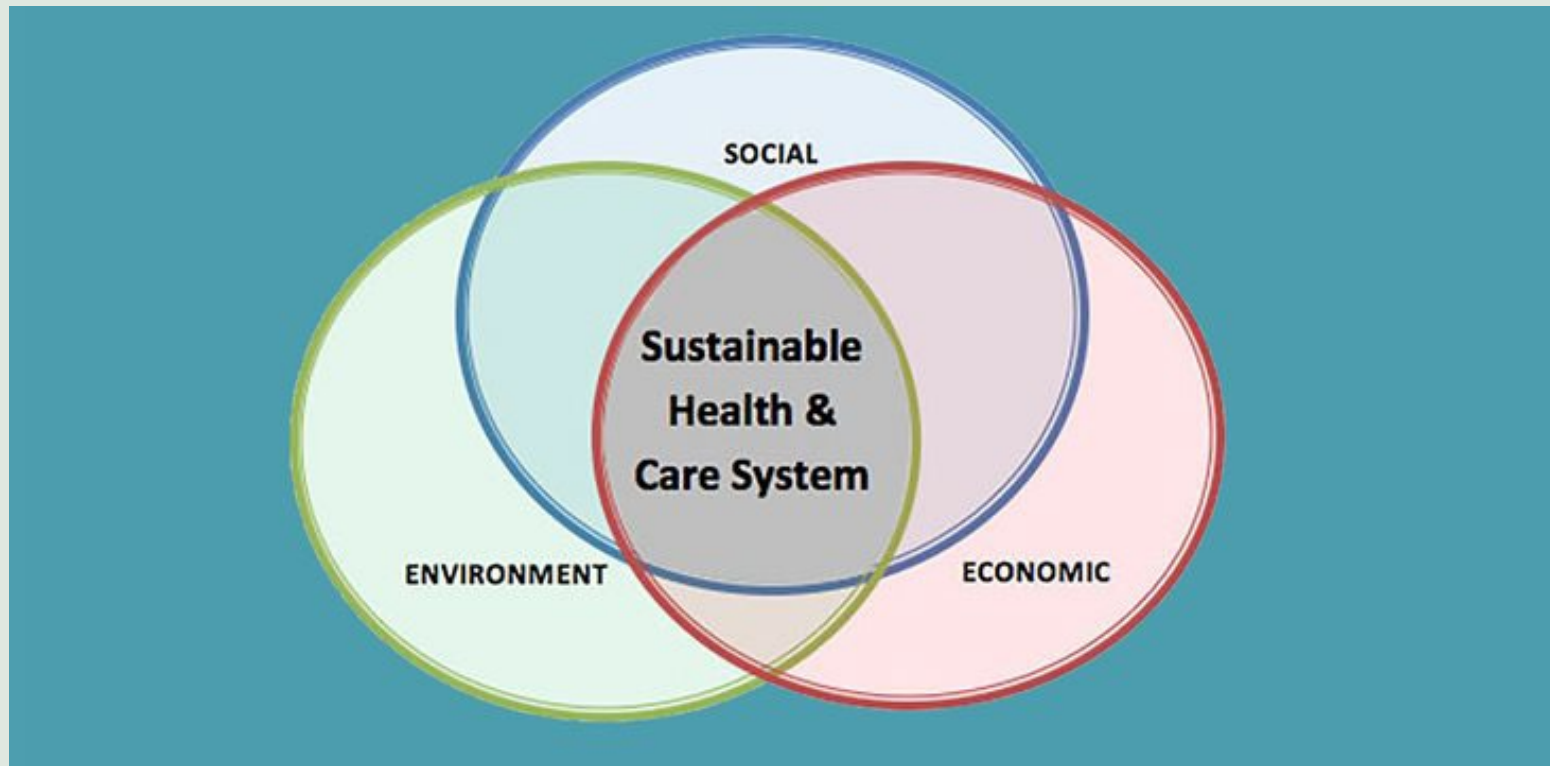


Sustainable
healthcare

NHS
contributes 4%
UK Carbon
emissions *

* NHS plan

Sustainable Healthcare delivers high quality care without damaging the **environment**, is **affordable** now and in the future and delivers positive **social impact**



3 Ps =
patient,
planet
& purse

Sustainable Healthcare



Sustainable Healthcare in HIV

TasP, vaccinations,
PrEP, contraception,
lifestyle, BP/DM
control

1. PREVENTION

promoting health and preventing disease by tackling the causes of illnesses and inequalities

3. LEAN SERVICE DELIVERY

streamlining care systems to minimise wasteful activities

efficient pathways, avoiding medication wastage, prudent investigations

Four principles of SUSTAINABLE HEALTHCARE

Mortimer, F. *The Sustainable Physician*. Clin Med 10(2). April 1, 2010. p 110-111.

<http://www.clinmed.rcpjournals.org/content/10/2/110.full>



CENTRE for
SUSTAINABLE
HEALTHCARE
inspire • empower • transform

2. PATIENT SELF-CARE

empowering patients to take a greater role in managing their own health and healthcare

4. LOW CARBON ALTERNATIVES

prioritising treatments and technologies with a lower environmental impact.

motivational interviewing,
patient activation
measures, peer support,
diet/exercise/addiction,
patient held apps, online
testing

single use plastic,
electronic patient
records, patient &
staff travel,
medicines??

Intersection of climate and HIV

- Drought in Sub-Saharan Africa
 - Decreased ART adherence, detectable viral loads
 - Reduced retention in care
 - Increased HIV prevalence
- HIV outcomes?
- Research into building up & adapting healthcare capacity



Trickey et al, BMC Infec Dis 23(1) 1 dec 2023

Effect of Climate change on HIV response; Lancet HIV, Vol 11, Issue 2 E63 Feb 2024

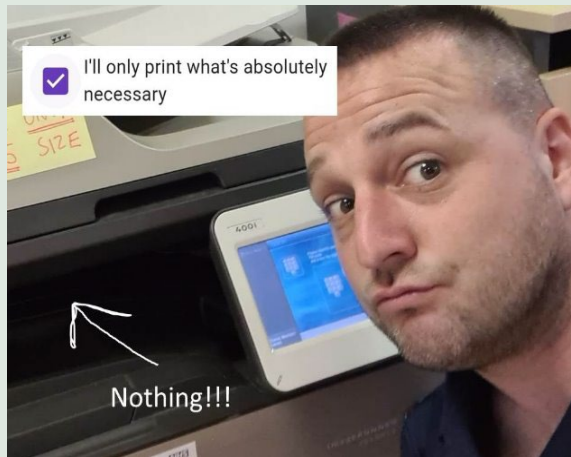
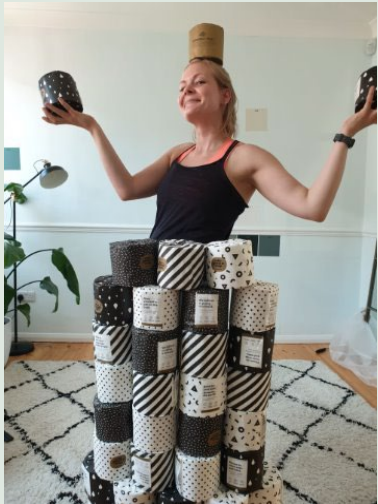
Personal correspondence C Iwuji, Jan 2024

The HIV SHAC Green Team - Brighton



Multi-disciplinary team

Doctors, nurses, Health advisors, pharmacists, administrators & patient rep



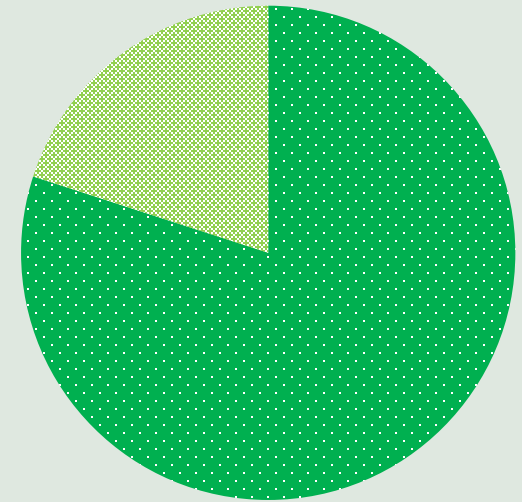
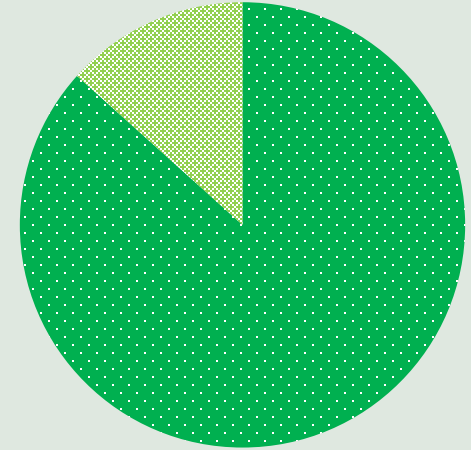
3 11 Green pledges during Trust environment week



Green pledge outcomes

87% stating they had made a permanent lifestyle change as a result

80% reporting it increased their awareness of environmental issues



Changes to practice

Clinical:

- Agenda item
- Single use plastic items:
 - specula/ instruments
 - tourniquets
 - gloves
 - cups
- Virtual clinics
- ‘Spotlight’ project



Non-clinical:

- Top Tips
- Switch off
- Quiz/ education
- Paper reduction
- Recycle points
- Vegan bake sales

Sexual health green team awarded for innovations to create a more sustainable service



2023 BASHH Conference
Cathy Harman Award

Gloves

off: You don't have to wear gloves when



University Hospitals Sussex
NHS Foundation Trust

Monthly glove use reduced 14,000 to 7,800
45% reduction

2036 KgCO₂e saved annually
Carbon savings equivalent of boiling 3420 kettles
That's a lot of cups of tea...!



Remember to maintain good hand hygiene by regularly washing your hands with soap and water

REUSABLE SPECULUM PROJECT

Staff questionnaire results

&

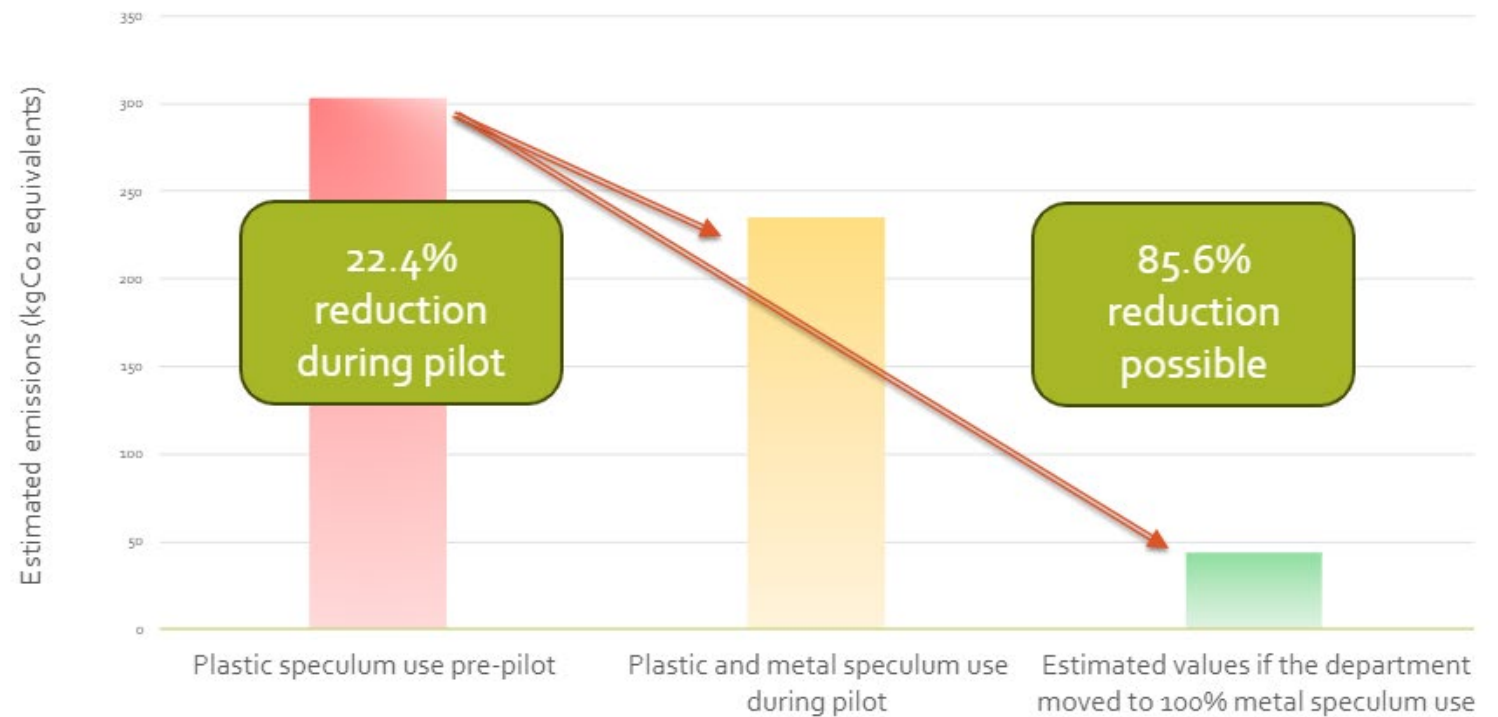
Usage data

Isobel Hall, 4th year medical student BSA

17th January 2024

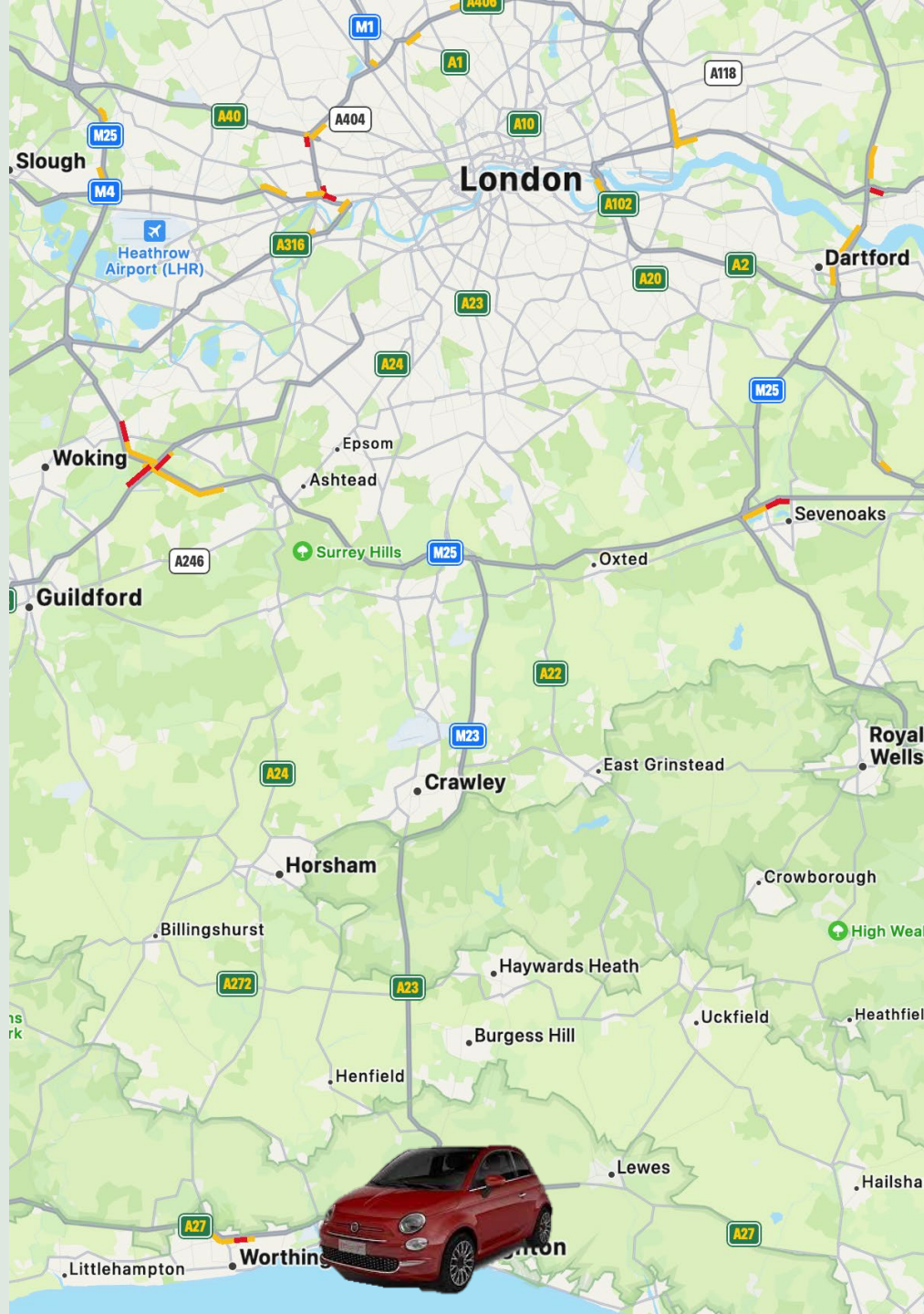
Brighton

Monthly Carbon Footprint



Speculum project carbon savings

2,817KgCO₂e
annually



200
times!



EmERGE digital pathway & platform for medically stable HIV patients

Co-designed with community & clinicians: providing access to own data own health data; reducing f2f visits to clinic by up to 30%; 2251 people followed up for 3891 patient years during project; 95% would recommend to a friend

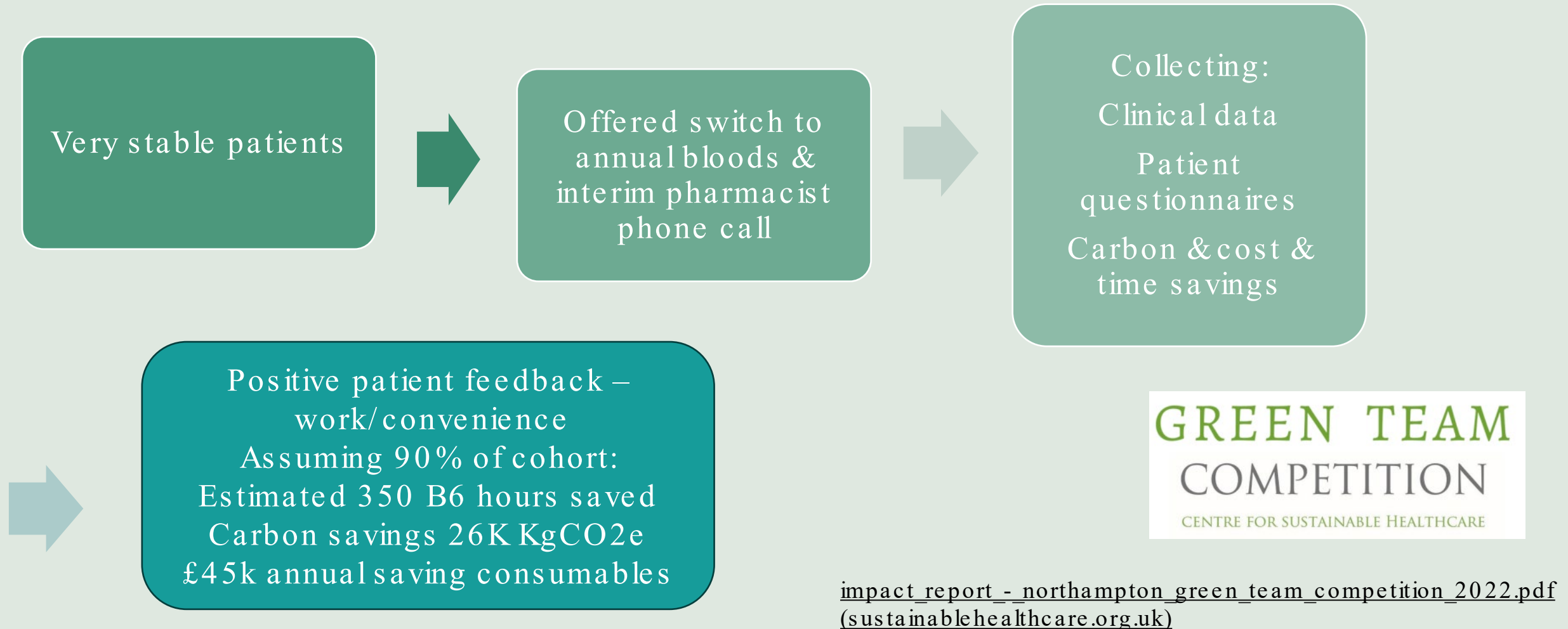


**Carbon savings travel 1st year study -
10 flights to New York, 18K travel miles**

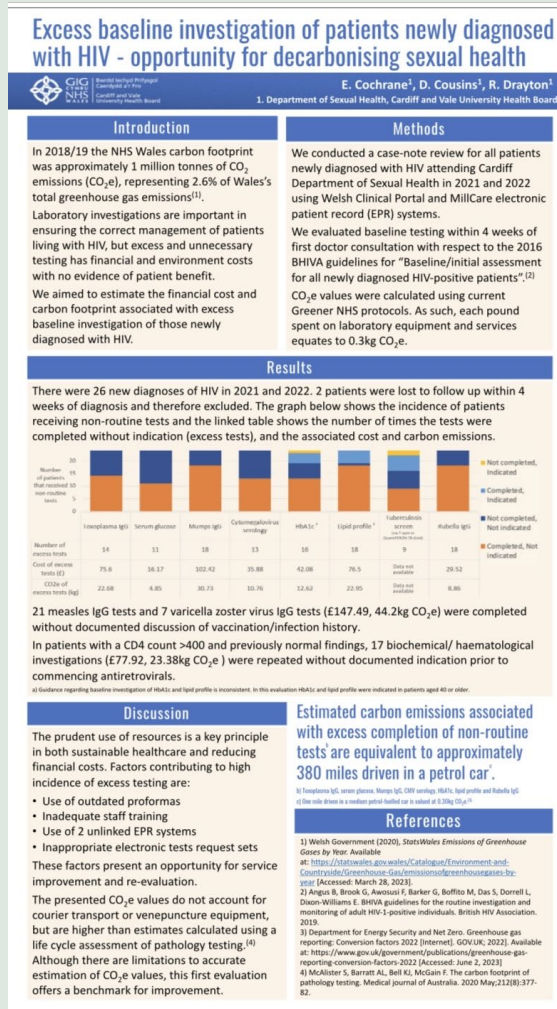
Now expanded to PrEP care



A novel care pathway for stable HIV patients – a streamlined and sustainable countywide approach – Northamptonshire Integrated sexual Health team



Excess Baseline investigations for patients newly diagnosed with HIV - Cardiff



24 new patients, casenote review in first 4 weeks cf BHIVA guidelines

Excess (unnecessary) tests = 380 miles petrol care (and ££/ patient harm)

Outdated proformas, inappropriate electronic test sets, staff, 2 unlinked EPRs, training etc

Cochrane et al, BASHH conference 2023

Royal Colleges are taking action

https://www.rcn.org.uk/About-us/Sustainability-in-health-and-care#:~:text=Ou...

Royal College of Physicians

Donate Join Login

Log in

BECOME A MEMBER

Home > Projects > RCP's commitment to environmental sustainability

RCEM Royal College of Emergency Medicine

GreenED

Environmentally Sustainable Emergency Medicine

Sign In Keyword Search

HOME RESOURCES GET INVOLVED FRAMEWORK PORTAL REGISTRATION FORM CONTACT US

Royal College of Emergency Medicine

GREENED.RCEM.AC.UK

GreenED

ENVIRONMENTALLY SUSTAINABLE EMERGENCY MEDICINE

Welcome to *GreenED*, a Royal College of Emergency Medicine (RCEM) initiative to measure and reduce the environmental impact of Emergency Departments in the UK, thus driving environmentally sustainable practices within the specialty of Emergency Medicine (EM).

At the heart of *GreenED* is a framework; the first sustainability framework designed specifically for a secondary care setting. The framework outlines evidence-based actions, divided into bronze, silver and gold levels, with the guidelines and resources required to help achieve them. Addressing these actions not only improves the environmental sustainability of an ED, but contributes to national net zero targets and creates financial savings for EDs while maintaining or improving patient care. Successful completion of all the actions at a given level leads to formal accreditation by RCEM, recognizing the

You are here:

RC GP NET ZERO

green impact

BASHH BHIVA Sustainable healthcare Special interest Group (SIG)

Inaugural meeting
MDT
April 2024

'10 Things clinics can
do'

BASHH conference
sustainability abstracts

Survey to clinics

Website for sharing
examples

BASHH/ BHIVA
pledges
Education sessions



BASHH
British Association for
Sexual Health and HIV

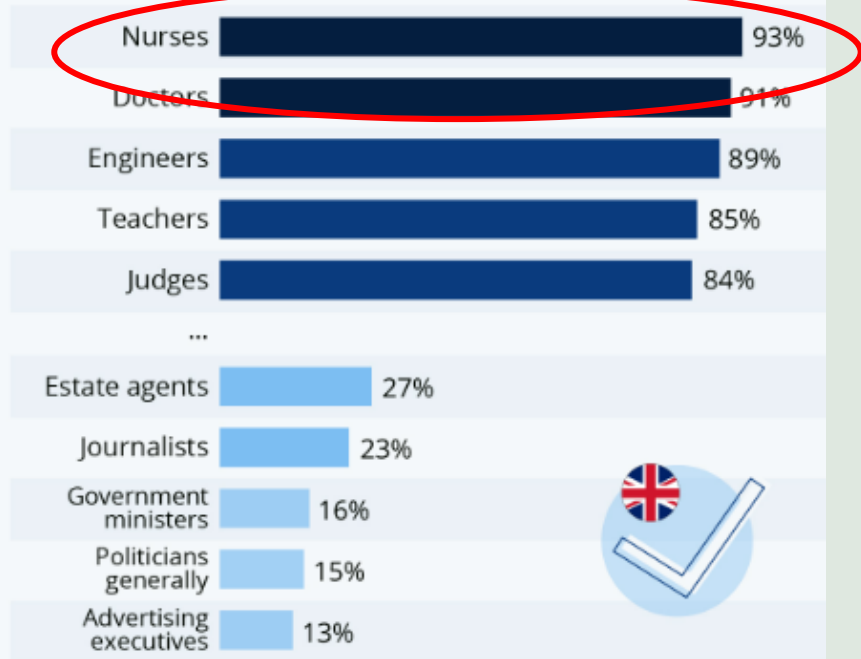


The power is in your hands...



Most and least trusted professions in Britain

Share of British adults that trust people in the following professions to tell the truth



n=916 adults (18+) in Great Britain. Conducted 16-25 October 2020.
Source: Ipsos Mori

Nursing is the largest occupational group in the health sector, globally estimated at 27 million.

Nurses and midwives are essential, as they are best placed in the communities they serve to provide immediate care to those most at risk during climate emergencies, and to actively engage in mitigation and adaptation efforts.

Nurses and Midwives as Global Partners to Achieve the Sustainable Development Goals in the Anthropocene. Rosa W, Catton H, Davidson P et al

NEWS

Home | Election 2024 | InDepth | Israel-Gaza war | Cost of Living | War

England | Local News | Regions | Coventry & Warwickshire

Nursing Times

Sustainability: nurses demand e-cars and waste reforms

03 APRIL, 2024



Reducing the environmental impact of healthcare is a major challenge that the next government will need to embrace if it is to fulfil its climate promises. The UK has pledged to reduce its greenhouse gas emissions to net zero by 2050 – meaning that, by that year, the emissions it...

ise
duce
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Green up NHIVNA?

Find your trust green plan/
become green champion

Start your own Green
Team

What can we
do at work?



Embed sustainability
into your dept

Lead by example

Prevention
Lean care
Patient self-care
Low carbon alternatives

Measure your carbon footprint

[Footprint.wwf.org.uk](https://www.footprint.wwf.org.uk)

Travel (mindful)

Cycle/walk/public transport if can

Buying (less, pre-loved)

Politics!! (voting, lobbying)

Food (local, seasonal, more plant based)



Engage others

What will you start with?

g/ investments
(disinvest from fossil fuels)

Summary

- Climate change is real
- Health is worsened by climate issues in many different aspects
- We (the NHS) are contributing to climate change
- We all have a role to play to help mitigate our impact on the environment
- HIV Clinics are already taking action
- Plenty of opportunities to do more



Thanks for listening



Thanks for sharing projects or slides:

Dr Ayoma Ratnappuli (centre Sustainable Healthcare)

Dr Jenny Whetham (Emerge)

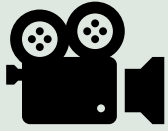
Isobel Hall (reusable speculum project)

Laurie Smith (Gloves off)

Rachel Drayton (excess testing)

Lynn Riddell (lean HIV pathways)

TV Books films organisations



Our Planet etc, Kiss the Earth (uplifting!)



Outrage & Optimism, Matter of degrees, Eco medics, TED Climate



BMJ sustainable Practise series eg [Sustainable practice: what can I do? | The BMJ](#)

Lancet Countdown on Health & climate change

Your hospital Green plan!



sustainablehealthcare.org.uk