Climate crisis – how medicines optimisation teams can respond

Ms Ravijyot Saggu
Lead clinical pharmacist & CPhO clinical fellow '21/22, NHSEI
Chair UKCPA Respiratory committee



Global warming & climate change – no plan(et) B









Greenhouse gases (GHGs) trap heat

Ref IPCC https://www.ipcc.ch/site/assets/uploads/2018/02/ar4-wg1-chapter2-1.pdf#table-2-14

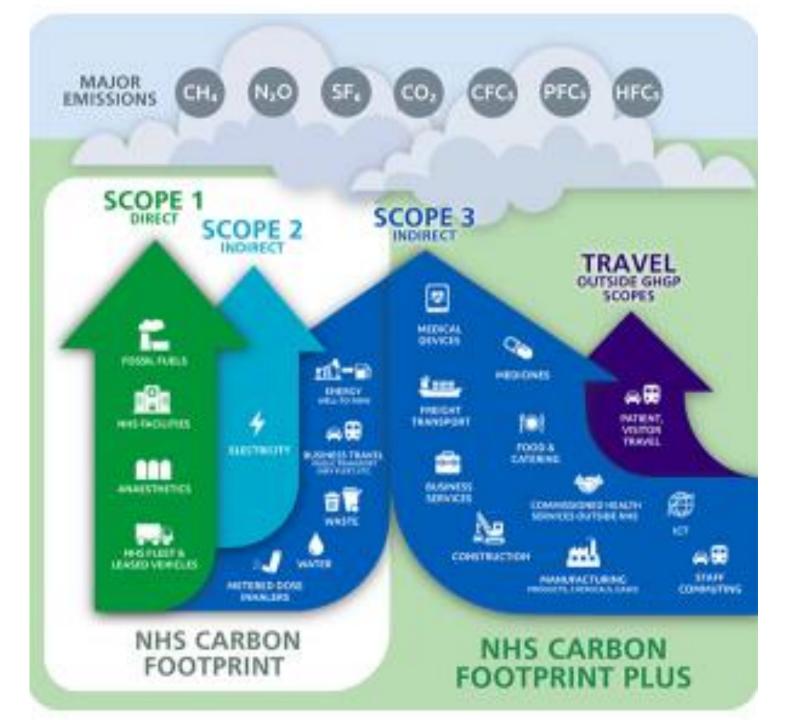
Long lived GHGs

- Water vapour (oxidation of CH4)
- Methane CH4
- CO2 burning fossil fuels
- Nitrous Oxide (N2O)
- Halocarbons Fluorine, bromine, chlorine gases inc Sulphur hexafluoride

Duration in atmosphere

- Short lived (days)
- 12 years
- 20-200 yrs
- 114 years

• <1yr >1000!



GreenerNHS ambitions

• For the emissions we **control directly** (the NHS Carbon Footprint), we will reach net zero by 2040, with an ambition to reach an 80% reduction by 2028 to 2032

• For the emissions we can **influence** (our NHS Carbon Footprint Plus), we will reach net zero by 2045, with an ambition to reach an 80% reduction by 2036 to 2039.

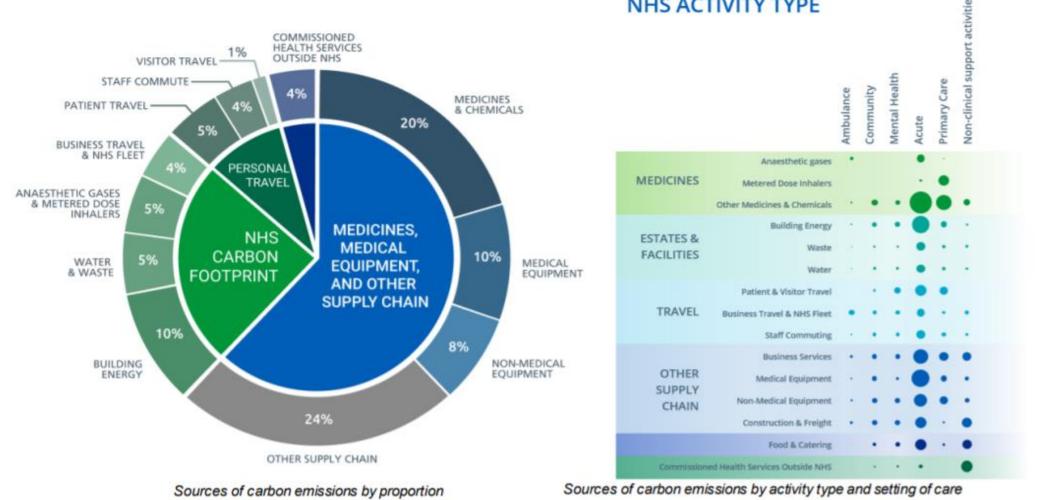
The Carbon Footprint of the NHS



The NHS Carbon Footprint: emissions in the NHS' direct control

The NHS Carbon Footprint Plus: all scopes – delivery of care, supply chain and travel

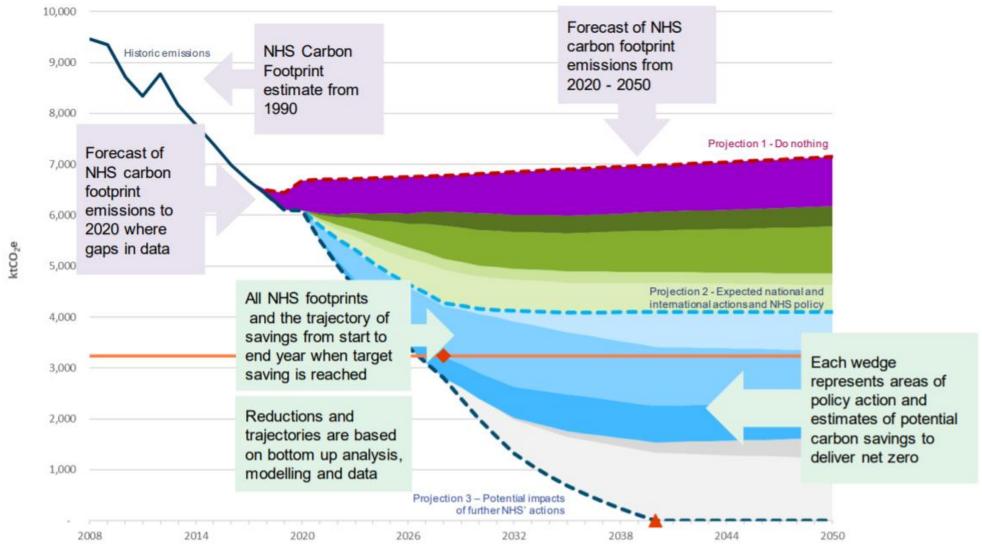
NHS ACTIVITY TYPE



For a Greener NHS

NHS modelling of the impact of NHS and others action





NHS Early steps to decarbonise

- Our care
- Heating & lighting
- Medicine & supply chain
- Transport and travel
- Innovation
- Hospitals
- Adaptation efforts
- Values and governance
- International Pharmaceutical Aerosol Consortium (IPAC) is coordinating a consortium of large pharmaceutical companies to develop a programme encouraging return of inhalers to pharmacies for green disposal.

PrescQIPP - Partnership with NHSEI

- Resources published on PrescQIPP website bulletin 295 & briefing:
- ✓ Inhaler carbon impact data
- ✓ Audit tools
- ✓ GP system searches
- ✓ Advice for HCP doc
- ✓Inh technique, pt leaflets
- ✓ Leaflets, posters & logos e.g. returning inhalers

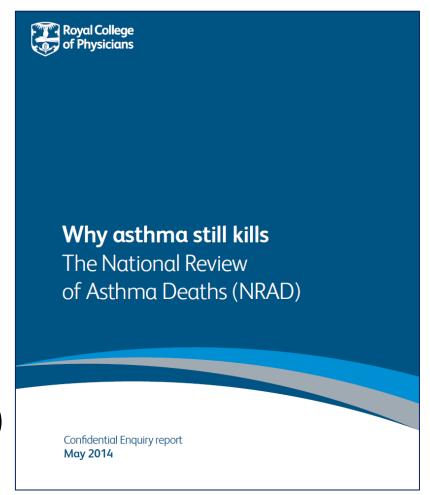
Carbon impact medicines...

- Medicines account for 25% of emissions within the NHS.
- A small number of medicines account for a large portion of the emissions, and there is already a significant focus on two such groups – anaesthetic gases (2% of emissions) and inhalers (3% of emissions)

- significantly increasing the use of DPIs, which may be clinically equivalent for many pts but significantly lower carbon emissions
- increasing frequency of the greener disposal of used inhalers
- supporting the innovation in & use of lower carbon propellants & alternatives

Drivers

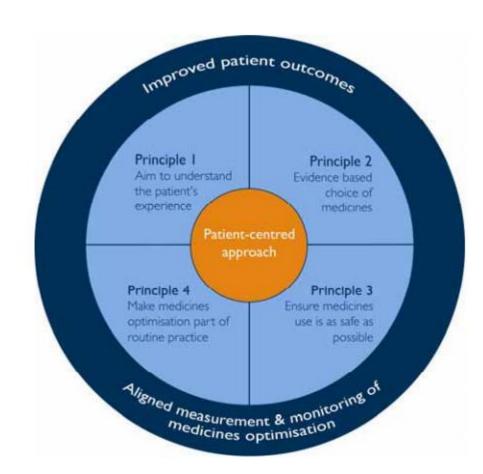
- Climate emergency declarations/Climate change Act
- Carbon net zero report Oct '20
- NHS Long term plan health inequalities
- WHO air quality standards
- National report on asthma deaths 2014
- BLF-AUK figures poor asthma outcomes
- The Marmot review 10 years on
- Impact & investment fund (IIF)
- Pharmacy quality scheme (PQS)
- Integrated Pharmacy Meds Optimisation (IPMO)



Medicines optimisation...

- Focuses on patients & outcomes rather than processes & systems (pt journey)
- Opportunity to reduce preventable harm
- About ensuring the right choice of medicine for the right pt at the right time

"a person centred approach to safe & effective meds use, to ensure people obtain the best possible outcomes from their medicines" NICE 2015



Crisis (opportunity!) Everyone's business

- Quality care holistic & adherence, disease control
- Inhalers Not rote MDI switches but consider DPIs & clinical appropriateness
- Understand (audit) local area practice
- Formulary alignment
- Raise awareness, connect & collaborate
- Staff/Patient education + review
- Disposal use, care & how long inhaler lasts
- Pharmacy sustainability strategy?
- What's happening locally? Departmental sessions?



shutterstock.com · 1755422126

Leadership & shared purpose

- Board level oversight & strategies ICS & IPMO
- Utilise knowledge, skills, expertise
- Don't duplicate efforts
- Inclusivity vulnerable groups, CYP identify pitfalls?
- Comms & training
- Access and supply
- System support partners, prescribers
- Smoking cessation pathways, inhalers, better care
- Divest from fossil fuel use

In your current role...

- The scale of the problem & carbon impact? Modelling?
- Implications of device changes? Who & how? Shared decision making
- Green inhalers
- Consider information provision patients in clinics/hosp before appt/at discharge
- Education & awareness inc return/recycle
- Leadership & champions
- LEANer processes & 'waste'
- Top down & bottom up ICS level
- Stakeholder collaboration & engagement

Get involved – we are a sum of our parts...

- If no alternative use lower vol HFA134 MDIs in preference
- Cars & travel better options, less journeys
- Avoid 'idling'
- Healthier living and being activity & diet
- Reuse bottles etc less plastic
- Conserve green spaces
- More 'plant forward' diets
- Health & wellbeing practitioners



Resources (not exhaustive)

- Patient decision aids NICE
- PrescQIPP resources
- BTS QI toolkit underway
- Greener practice website inc inhaler prescribing guide
- Greener practice + Health foundation toolkit underway
- Greener NHS website recently launched resource toolkit 'healthier planet and people', case studies
- Campaign resource centre PHE
- Susqi.org
- Pharmacy Declares website
- Carbon literacy https://carbonliteracy.com/trainer-consultant/the-carbon-literacy-resources-library/

Questions and comments?

Ravijyot.saggu@nhs.net

Twitter @RavijyotSaggu