

Royal College of Obstetricians & Gynaecologists

Sustainability and climate change at the RCOG – workshop

27th July 2023

Agenda



- Introduction Dr Ranee Thakar, PRCOG
- Sustainability and advocacy at the RCOG Kate Lancaster, Chief Executive, RCOG
- The Green Surgery Report and towards sustainable care Dr Natasha Abdul Aziz, Dr James Phillips and Dr Alice Clack
- Discussion All
- Feedback
- Conclusion



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Introduction

Ranee Thakar PRCOG

July 2023

Supporting our membership to respond to the climate crisis and advocating for a healthier future for women and girls



Did you know



- Estimated **80 percent of people displaced by climate change are women** (UN Development Programme, 2017)
- Over the next decade around **14 million women are at risk of losing access to contraception** due to climate-related disruptions (MSI Reproductive Choices, 2021)
- Air pollution particles have been found in fetal tissue (Bongaerts et al, 2022)

Health effects of climate change on maternal and fetal health

- Direct risks of extreme weather
- Disrupts access to medical care
- Increased risk of vector-borne diseases
- Vulnerability to food or water contamination
- Food and water shortages
- Displacement, trauma and risk of violence



IMPACT OF AIR POLLUTION ON CHILDREN'S HEALTH

A child who is exposed to unsafe levels of pollution can face a lifetime of health impacts. Exposure in the womb or in early childhood can lead to:





and motor

Behavioral

disorders





Stunted lung growth Reduced lung function

Increased risk of developing asthma

Acute lower respiratory infections

Impaired menta Low birth weight Premature birth development Infant mortality

Childhood cancers heart disease. diabetes and stroke in

Increased risk of adulthood

IN 2016, AMBIENT AND HOUSEHOLD AIR POLLUTION CAUSED

543,000 deaths in children under 5 years

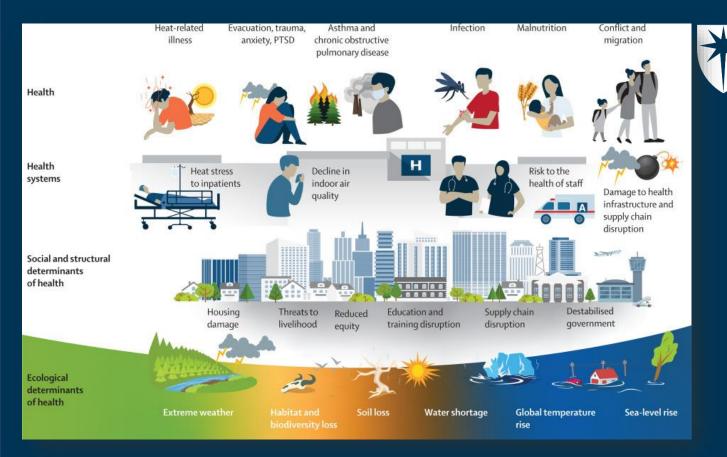
52,000 deaths in children aged 5 -15 years Household and ambient air pollution cause more than 50% of acute lower respiratory infection in children under 5 years in lower- and middle-income countries.

CLEAN AIR FOR CHILDREN'S HEALTH #AirPollution

Norld Health Organization



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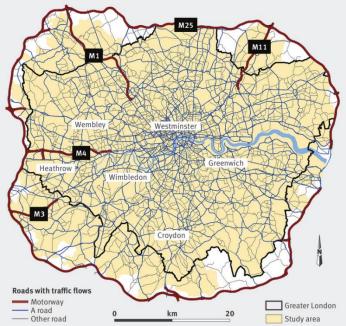
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Climate change-related impacts on health and health systems

Howard et al, Learning to treat the climate emergency together: social tipping interventions by the health community (The Lancet Planetary Health, 2023)

Impact of London's road traffic air and noise pollution on birth weight Rachel B Smith et al BMJ 2017

Air pollution from road traffic in London is adversely affecting fetal growth



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Climate justice and health equity



- Connection between historic and ongoing exploitation, racism and environmental inequalities
- People who are culturally, economically, institutionally, politically, socially or otherwise marginalized, such as persons with disabilities, are particularly at risk of harm from the adverse effects of climate change (OHCHR, 2020)
- Reinforces and exacerbates existing health inequalities, including within the UK

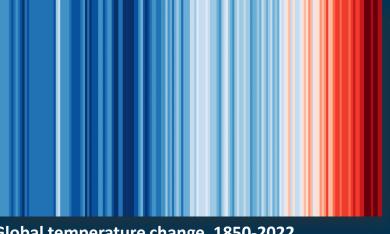
Why now?



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"Any further delay in concerted global action will miss a brief and rapidly closing window to secure a liveable future"

– Hans-Otto Pörtner, Intergovernmental Panel on Climate Change co-chair, 2022



Global temperature change, 1850-2022 (University of Reading)

The role of obstetricians and gynaecologists

- Every one of us has a role to play!
- Healthcare professionals are trusted voices, and may witness health impacts directly
- Healthcare in the world's largest economies accounts for over 4% of global CO2 emissions



"There are multiple, feasible and effective options to reduce greenhouse gas emissions and adapt to human-caused climate change, and they are available now"

– Intergovernmental Panel on Climate Change, 2023



Looking to the future



Royal College of Obstetricians & Gynaecologists

- Supporting meaningful changes in the way we deliver care to ensure the specialty becomes increasingly sustainable
- Advocating for a healthier future for women and girls
- Stay in touch by emailing policy@rcog.org.uk





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College progress on sustainability and climate change

Kate Lancaster, Chief Executive

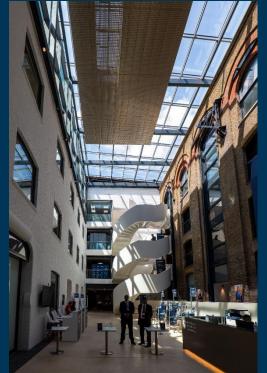
Sustainability – at the heart of the College's strategy

Significantly reducing our carbon footprint and ensuring our environmental sustainability is one of four College strategic goals for 2020-2025.

- Committed to reducing our carbon emissions by 50% by 2030 from a 2019 baseline
- 100% renewable energy in Union Street
- Streamlining and digitising operations
- Updated travel and investment strategies
- Greater focus on plant-based options and a move to reusable, plant-based or easily recycled materials in our Union Street catering







Committed to progress on sustainability and climate change

- UK Health Alliance on Climate Change member commitments
- Participate in annual Climate and Health Scorecard
- Reviewing all activity in terms of environmental impact and equality, diversity and inclusion
- Shortlisted for the 2023 Memcom Sustainability Award



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Supporting our membership



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- Regularly spotlight at our annual World Congress
- Upcoming RCOG Learning on climate change, women's health and sustainable care
- Green Surgery Report
- Priority area scoping future work



FIGO President Dr Jeanne Conry at RCOG World Congress 2023

College advocacy on climate change ${f V}$

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- UK Health Alliance on Climate Change –
 - Clean air
 - Just fossil fuel transition
 - Sustainable diets
 - Climate justice
- Collaborations RCOG, UKHACC and RCPCH UK policy brief for the Lancet Countdown on Health and Climate Change



Air pollution and women's health

- RCOG position statement
- Media coverage on Clean Air Day
- 2022 engagement with UK Government on environmental targets – roundtable for MPs, Peers and civil servants
- Link to maternal health inequalities









Green Surgery Report and Theatre Checklist

Natasha Abdul Aziz

James Phillips

July 2023

















FOR A GREENER **NHS**



Infection Prevention Society



Royal Australasian College of Surgeons









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Green Surgery report

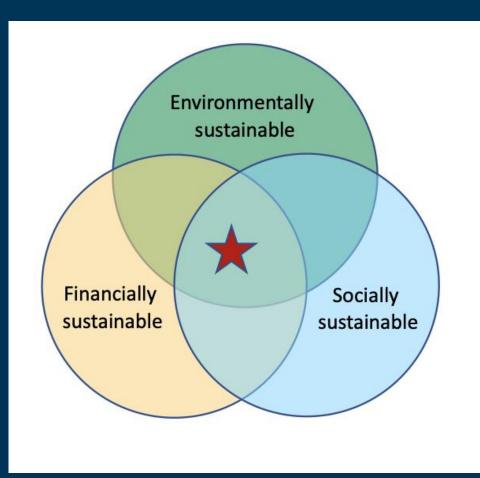
Executive Summary

The Green Surgery report provides initiatives and recommendations to improve the environmental impact of surgical care, based upon evidence synthesis and case studies. It also considers barriers and facilitators to implementation. Within the operating theatre, the key contributors to greenhouse gas emissions are products (particularly single-use items), energy consumption, and anaesthesia.

In line with these concepts, 'sustainable healthcare' is defined in this report as the provision of healthcare in a manner which meets health and wellbeing needs in a way which does not directly or indirectly negatively impact on health (or potential to provide healthcare) of other populations, separated by socioeconomic status, geography, or time. This report focuses on the environmental element of sustainable healthcare, and the term 'sustainability' and 'sustainable' are used hereon in to refer to environmental sustainability.

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Green Theatre checklist





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Below	ercollegiate Green Theatre Checklist are a list of recommendations to reduce the environmental impact of operating theatres. All the relevant ce and published evidence has been included in the Compandium of evidence, accessed via the QR code:	
Anaesthesia		
1	Consider local/regional anaesthesia where appropriate (with targeted O, delivery only if necessary)	
2	Use TIVA whenever possible with high fresh gas flows (5-6 L) and, if appropriate, a low O, concentration	
3	Limit Nirous Oxide (N,O) to specific cases only and if using: • check N,O pipes for leaks or consider decommissioning the manifold and switching to cylinders at point of to • introduce N/O crackers for patient-controlled delivery.	use;
4	II using Inhibitional anaesthola: • use lowest global warming potential (sevoflurane better than isoflurane better than desflurane); • consider removing desflurane from formulary; • use low-flow farget controlled anaesthetic machines; • consider Valual Capture Technology.	0
5	Switch to reusable equipment (e.g. laryngoscopes, underbody heaters, slide sheets, trays)	
6	Minimise drug waste ("Don't open it unless you need it", pre-empt propofol use)	
Pre	paring for Surgery	
7	Switch to reusable textiles, including theatre hats, sterile gowns, patient drapes, and trolley covers	
8	Reduce water and energy consumption: • rub don't sorub; after first water sorub of day, you can use alcohol rub for subsequent cases; • install automatic or pedal-controlled water taps.	
9	Avoid clinically unnecessary interventions (e.g. antibiotics, catheterisation, histological examinations)	
Intra	aoperative Equipment	
10	REVIEW & RATIONALISE: 9 surgery preference lists for each operation - separate essential vs. cyclinal items to have ready on side, (regulast suggities mome thesis). (regulast suggities mome thesis).) instrument sets - open only what and when needed, integrate suggitientary items into sets, and consolidies sets only if all allow settlentwow set (respects see guidance).	
11	REDUCE: avoid all unnecessary equipment (eg swabs, single-use gloves), "Don't open it unless you need it	
12	REUSE: opt for reusables, hybrid, or remanufactured equipment instead of single-use (e.g. diathermy, gallipots, kidney-dishes, light handles, quivers, staplers, energy devices)	D
13	REPLACE: switch to low carbon alternatives (e.g. skin sutures vs. clips, loose prep in gallipots)	
Afte	r the Operation	
14	RECYCLE or use lowest carbon appropriate waste streams as appropriate: • use domestic or recycling waste streams for all packaging; • use non-interpoint outformative waste griekovalanis (any unless clear risk of intection; • ensure only appropriate contents in sharps bits (sharps/drugs); • arrange matabateris collection where possible.	
15	REPAIR: ensure damaged reusable equipment is repaired, encourage active maintenance	
16	POWER OFF: lights, computers, ventilation, AGSS, temperature control when theatre empty	
	MER: These suggestions are based upon current evidence and broadly generisable, however, specific environmental impacts will depend al infrastructure and individual Thesis' implementative distances	

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THE ROYAL COLLEGE OF

Below guidar

SURGEONS ILL.

FEDINBURG

Intercullegiate Green Theatre Scorecard. November 2022

General Principles for Greener Surgical Care Pathways

Although this checklist focuses on the operating theatre alone, there are a number of other interventions that can be introduced along the whole surgical patient pathway. The biggest way to reduce the carbon footprint of surgery is primary prevention of surgical disease. The first principle of sustainable surgery is therefore health promotion and disease prevention/optimisation through lifestyle changes, dietary advice, patient education and patient empowerment.⁴

It is important to note however, that surgery in itself may actually be less environmentally impactful (as well as more economical) than conservative or medical management of certain chronic conditions.⁵ When surgery is necessary, the whole pathway should be rationalised and streamlined, including utilising virtual consultations, one-stop clinics, diagnostic hubs, daycase surgery,⁶ whenever possible and clinically appropriate.





Figure 1. Principles of sustainability in healthcare.4

The Centre for Sustainable Healthcare

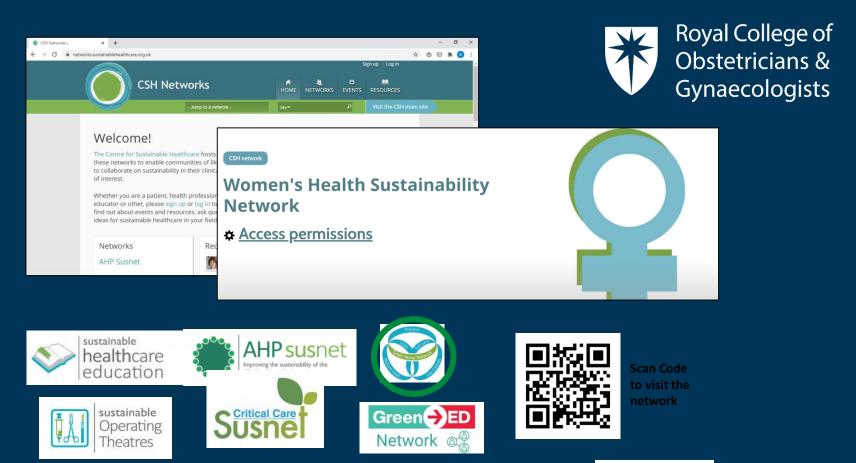
Website: <u>www.sustainablehealthcare.org.uk</u>



- <u>Courses</u> include a half-day self-study, a half day online workshop and online project follow-up forums
 - Introduction to sustainable healthcare
 - <u>Sustainability in Quality Improvement</u>
- SusQI website: <u>www.susqi.org</u>









Where next?



We want to hear your views

- How can the College support you to integrate sustainability into your day-today practice?
- Which issues should the College be talking about with policymakers?
- How can the College support you in talking to patients about climate change, environmental pollution, or sustainable healthcare?
- Do you have examples from your own hospital, Trust or Health Board which others in the specialty should be considering?





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Thank you!

policy@rcog.org.uk

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- <u>https://ukhealthalliance.org/sustainable-healthcare/green-surgery-project/</u>