

Teaching SusQi - Engagement exercises

Lesson Title:	Various exercises to engage students in SusQI					
Level:	Any	Duration:	10- 20mins			
Lesson Objectives:						
Help students understar	nd what is a carbon foo	tprint and how it may	/be calculated			
	of our choices. How do	o we know what to cl	ne carbon literate and get to noose between when looking			
F1 Cannula G1 email ref F1 Cannula G1 email ref F1 Cannula G1 email ref F1 Cannula G1 email ref F1 Cannula F1 Cannula	I banana I banana I banana I banana ferral W Post I large cap I large cap </th <th></th> <th>1 return journey to</th>		1 return journey to			

The Centre for Sustainable Healthcare Cranbrook House 287-291 Banbury Road Oxford OX2 7JQ

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Items/processes	Carbon footprint (kgCO2e)
1 email referral	0.004
1 banana	0.08
1 * 500ml bottle of water	0.16
1 letter referral (virgin paper & disposed of at landfill)	0.2
1 large cappuccino	0.235
1 cannula	0.54
1 toilet roll (virgin paper)	0.73
1 GP appointment	6
1 pair of jeans	6
1 Salamol inhaler	10
1 outpatient appointment	23
1 inpatient day - low intensity	37.9
1 return journey Oxford - London in an averaged sized car	40
1 cataract surgery in the UK	180
1 litre of Desflurane	3,720

Facilitators:

Students may want to do this exercise in a group. If delivering virtual teaching this could be done in breakout rooms. If in person you could have the items/processes cut out and then students could order them together in a group.

This could lead onto a discussion of how a carbon footprint is calculated and the variables that go into that equation.

This video could be helpful:

https://www.youtube.com/watch?time_continue=7&v=8q7_aV8eLUE&feature=emb_logo

In brief, a carbon footprint is shorthand for all of the different global warming greenhouse gases. This includes Methane, Nitrous oxide, Hydroflurocarbons (HFCs) and other gases. In the UK the breakdown of our CO2e gas emissions is approximately 81% Carbon Dioxide, 11% Methane, 5% NO, HFC and other gases 3%.

Acknowledge that calculating carbon footprints is complex. Be honest about the uncertainty but be empathetic that uncertainty does not negate the exercise as we need to start somewhere if we are to try and change how we address the issue.

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esson Title:		Lookin	g at the full	environme	ental imp	acts of hea	althcare p	rovision
Level:		Any		Dura	ation:		10- 20min	IS
esson Objective	s:					•		
• To gain a holi	stic approa	ach to the	e environme	ntal impac	ts of diffe	rent healt	hcare acti	vities
Task: What is the provision?	e major en	vironme	ntal impact	category a	ssociated	d with the	se areas o	of health
ook at the items.	in the lef	t-hand co	lumn. What	is their ma	ajor envir	onmental	impact? P	lease indi
vith a tick.					-			
	Greenhouse	Air	Deforestation	Water	Plastic	Eco-toxicity	Scarce	Ozone
	gas emissions	pollution		consumption			resources	depletion
Inhalers								
Energy use								
Anaesthetic								
gases								
Medical								
equipment								
Pharmaceuticals								
Operating								
theatres								
Staff travel								
Patient travel								
Gloves (plastic,								
rubber)								
Dialysis								
Laundry								
services								
Medical								
instruments								
Single use								
plastic								
Antibiotics								
Cotton linen								
Oral								
contraceptives								
Anti-								
depressants					1			
depressants Propofol								

This may then lead onto discussion about planetary boundaries- and could be an opportunities to show this video about planetary boundaries

https://www.youtube.com/watch?time_continue=1&v=V9ETiSaxyfk&feature=emb_logo

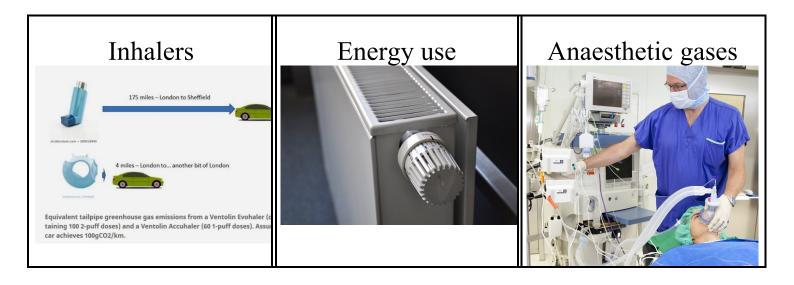
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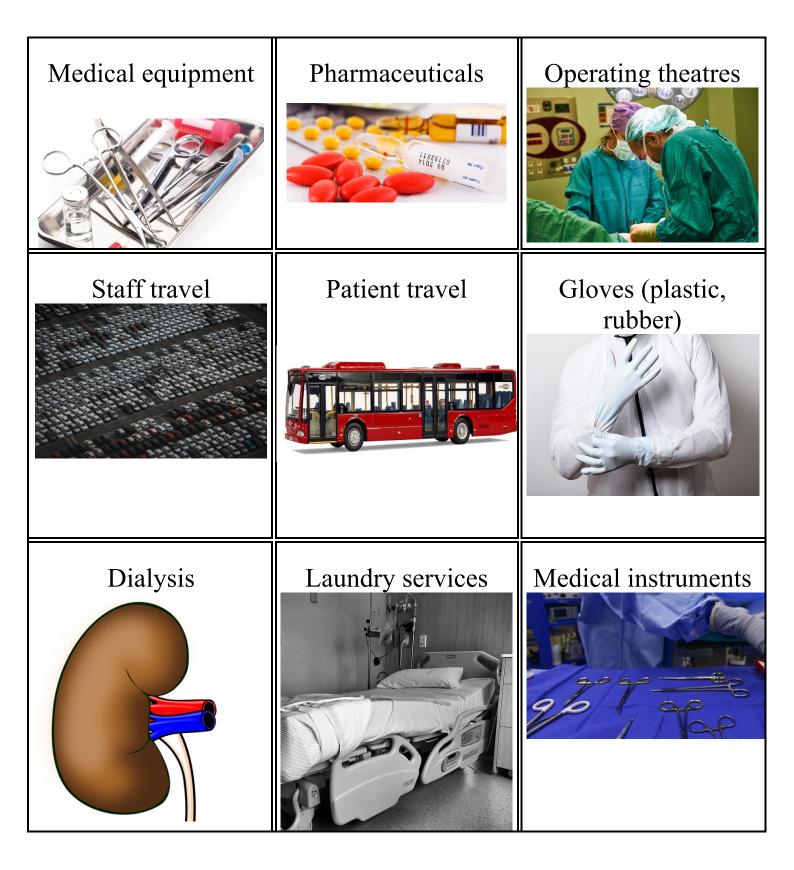
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Lesson Title:	Learning about Healthcare's Carbon Hotspots						
Level:	Any	Duration:	10- 20mins				
Lesson Objectives:							
• To gain a better underst	anding of why the high im	npact areas are for Co2e	e in healthcare delivery				
Task: Using the cards belo footprint items.	ow try and sort the ite	ms into high impact a	and low impact carbon				
The NHS Sustainable Development Units information about carbon hotspot can be helpful in engaging participants in identifying the hotpot areas in their own practice.							
https://www.sduhealth.org.uk/policy-strategy/reporting/natural-resource-footprint-2018/carbon-hotspots.aspx							

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