Appendix – Evidence Checking

Table A1: Search strategies by question. CINAHL = Cumulative Index to Nursing and Allied Health Literature.

Question	Search Strategy: Cochrane, Embase, CINAHL and Medline.
1 How can care after an operation be optimised to	1 ((Postop* or "post op*" or periop* or "peri op*" or post-surgery) adj6 care).ti,ab.
minimise the use of resources and creation of waste	2 Postoperative Care/
whilst providing good care?	3 1 or 2
	4 (optimis* or optimiz* or enhance* or improve* or better or best).ti,ab.
	5 3 and 4
	6 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	7 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	8 Carbon Footprint/ or Environmental Pollution/
	9 6 or 7 or 8
	10 5 and 9
	11 limit 10 to (yr="2017 -Current" and (meta analysis or "systematic review"))
	12 limit 11 to english language
2 Which aspects of care before and after an operation	1 ((Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*" or post-surgery) adj6 care).ti,ab.
can be provided in the community in a more	2 ((before or prior) adj2 (surgery or operation)).ti,ab.
sustainable way?	3 (after adj2 (surgery or operation)).ti,ab.
	4 (following adj2 (surgery or operation)).ti,ab.
	5 2 or 3 or 4
	6 care.ti,ab.
	7 5 and 6
	8 Preoperative Care/
	9 Postoperative Care/
	10 ("pre-operative investigations" or pre-habilitation).ti,ab.
	11 ("post operative" adj3 rehabilitation).ti,ab.
	12 (postop adj3 rehabilitation).ti,ab.
	13 1 or 7 or 8 or 9 or 10 or 11 or 12
	14 exp Community Health Services/
	15 (community or "general practice" or GP or "district nurse*" or "remote clinic" or "remote clinics" or "one-stop
	clinic" or "one-stop clinics").ti,ab.
	16 exp Community Health Nursing/
	17 14 or 15 or 16
	18 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	19 Carbon Footprint/ or Environmental Pollution/
	20 (transport* or travel*).ti,ab.
	21 18 or 19 or 20
	22 13 and 17 and 21
	23 limit 22 to (yr="2017 -Current" and (meta analysis or "systematic review"))

3	How can we increase the reuse and recycling of	1	(Postop* or "post op*" or post-surgery).ti,ab.
	equipment used for rehabilitation in the recovery	2	(after adj2 (surgery or operation)).ti,ab.
	period after an operation?	3	(following adj2 (surgery or operation)).ti,ab.
		4	Postoperative Care/
		5	((surgery or operation) adj4 (recover* adj3 period*)).ti,ab.
		6	Postoperative Period/
		7	1 or 2 or 3 or 4 or 5 or 6
		8	Rehabilitation/
		9	exp Self-Help Devices/
		10	((medical or therap* or rehabilitat* or mobility or mobile) adj5 (aid* or device* or equipment)).ti,ab.
		11	8 or 9 or 10
		12	(recycl* or reusable or reuse or reutilis* or reutiliz* or reusing or reused).ti,ab.
		13	"repeated use".ti,ab.
		14	"repeatedly using".ti,ab.
		15	"using again".ti,ab.
		16	"used again".ti,ab.
		17	"use again".ti,ab.
		18	"repeated utiliz*".ti,ab.
		19	"repeated utilis*".ti,ab.
		20	Recycling/ or Equipment reuse/
		21	12 or 13 or 14 or 15 or 18 or 19 or 20
		22	7 and 11 and 21
		23	limit 22 to (yr="2017 -Current" and (meta analysis or "systematic review"))
4	Can the supply of medicines after an operation be	1	(Postop* or "post op*" or post-surgery).ti,ab.
	optimised to minimise waste?	2	(after adj2 (surgery or operation)).ti,ab.
		3	(following adj2 (surgery or operation)).ti,ab.
		4	Postoperative Care/
		5	((surgery or operation) adj4 (recover* adj3 period*)).ti,ab.
		6	Postoperative Period/
		7	1 or 2 or 3 or 4 or 5 or 6
		8	(medicine* or medication* or drug* or prescription*).ti,ab.
		9	Medicine/mt, og [Methods, Organization & Administration]
		10	exp Pharmaceutical Preparations/
		11	Self Medication/
		12	exp Prescriptions/
		13	8 or 9 or 10 or 11 or 12
		14	7 and 13
		15	(optimis* or optimiz* or enhance* or improve* or better or best).ti,ab.
		16 17	14 and 15 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		18	
		18	(Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
		19	Carbon Footprint/ or Environmental Pollution/

		20	17 or 18 or 19
		21	16 and 20
		22	limit 21 to (yr="2017 -Current" and (meta analysis or "systematic review"))
5	How does living a 'greener' lifestyle affect recovery	1	(Postop* or "post op*" or post-surgery).ti,ab.
	after an operation?	2	(after adj2 (surgery or operation)).ti,ab.
	·	3	Postoperative Period/
		4	(following adj2 (surgery or operation)).ti,ab.
		5	1 or 2 or 3 or 4
		6	((affect* or effect* quality or facilitate or aid or help* or assist* or benefit* or speed* or improve or
		advanta	gg*) adj5 recover*).ti,ab.
		7	5 and 6
		8	(green* adj5 (life or "life style*" or lifestyle* or existence or living)).ti,ab.
		9	(vegan* or vegetarian* or vegetable*).ti,ab.
		10	diet, vegetarian/ or diet, vegan/
		11	((less or reduc* or limit* or omit* or exclud*) adj4 meat*).ti,ab.
		12	vegetarians/ or vegans/
		13	(exercis* or active or activit* or fit or fitness or walk* or running or swim* or gym or sport*).ti,ab.
		14	exp Exercise/
		15	8 or 9 or 10 or 11 or 12 or 13 or 14
		16	7 and 15
		17	(sustainab* or environment* or green* or "carbon footprint").ti,ab.
		18	Carbon Footprint/ or Environmental Pollution/
		19	((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		20	17 or 18 or 19
		21	16 and 20
		22	limit 21 to (yr="2017 -Current" and (meta analysis or "systematic review"))
6	What are the most sustainable forms of effective	1	ipc.ti,ab.
	infection prevention and control used around the time	2	exp Infection Control/ or Surgical Wound Infection/
	of an operation (e.g. PPE, drapes, clean air	3	(infection adj4 (rate* or incidenc* or occur* or reduc* or improv* or avoid* or prevent* or control*)).ti,ab.
	ventilation)?	4	1 or 2 or 3
		5	exp Surgical Procedures, Operative/
		6	(Operation* or Surger* or Surgical or Procedure*).ti,ab.
		7	Operating Rooms/
		8	5 or 6 or 7
		9	(clean adj2 air).ti,ab.
		10	ventilat*.ti,ab.
		11	Ventilation/
		12	Surgical Drapes/
		13	Personal Protective Equipment/
		14	PPE.ti,ab.
		15	"personal protective equipment".ti,ab.
<u></u>		16	(gloves or gown* or mask* or apron* or hat or hats* or "safety glasses" or goggles or shields).ti,ab.

	17	exp Surgical Attire/
	18	((eye or face or hand or respiratory or body or hearing) adj1 protection).ti,ab.
	19	9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18
	20	4 and 8 and 19
	20 21	((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	22	(Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	23	Carbon Footprint/ or Environmental Pollution/
	25	Product Packaging/ or Surgical Instruments/ or Recycling/ or Waste Management/
	25	((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or
		ic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or
		ument*)).ti,ab.
	26	21 or 22 or 23 or 24 or 25
	20	21 of 22 of 23 of 24 of 25 20 and 26
	28	limit 27 to (yr="2017 -Current" and (meta analysis or "systematic review"))
	29	limit 28 to english language
		exp Preoperative Exercise/ or exp Preoperative Period/
	The state of the s	prehabilitation.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-
		ling word, keyword heading word, organism supplementary concept word, protocol supplementary concept word,
operation?		disease supplementary concept word, unique identifier, synonyms]
		preoperative exercise".mp. [mp=title, abstract, original title, name of substance word, subject heading word,
		ing sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary
		ept word, rare disease supplementary concept word, unique identifier, synonyms]
		ife style/ or exp healthy lifestyle/
		lifestyle intervention*".mp. [mp=title, abstract, original title, name of substance word, subject heading word,
		ing sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary
		ept word, rare disease supplementary concept word, unique identifier, synonyms]
		exp Diet, Healthy/
		diet intervention*".mp.
		L or 2 or 3 or 4 or 5 or 6 or 7
		sustainab*.ti,ab.
		environment* impact.ti,ab.
		carbon footprint*.ti,ab.
		resource* reduc*.ti,ab.
		"green* energy*".ab,ti.
		((wast* or resource*) and (minimiz* or minimis* or reduc*)).ab,ti.
	·	
		ument*)).ti,ab.
	16	exp Renewable Energy/
	17	exp Carbon Footprint/
	18	Product Packaging/ or Surgical Instruments/ or Recycling/ or Waste Management/
	19	9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18
	plast instr 16 17 18	exp Renewable Energy/ exp Carbon Footprint/ Product Packaging/ or Surgical Instruments/ or Recycling/ or Waste Management/

		20 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		21 Surgical Procedures, Operative/
		22 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*" or post-surgery).ti,ab.
		23 20 or 21 or 22
		24 8 and 19 and 23
		25 limit 24 to (yr="2017 -Current" and systematic reviews)
8	What are the relative environmental impacts of the	1 exp Environment/
	different elements of care delivered before an	2 "carbon footprint* ".ti,ab.
	operation?	3 "Environmental impact".ti,ab.
		4 1 or 2 or 3
		5 exp Preoperative care/
		6 (prehabilitation or pre-habilitation).ti,ab.
		7 (preoperative and (Clinic* or Scan* or investigat* or radiology)).ti,ab.
		8 5 or 6 or 7
		9 4 and 8
		10 limit 9 to yr="2017 -Current"
		11 limit 10 to "systematic review"
9	How can investigations before an operation be used	1 sustainab*.ti,ab.
	more efficiently?	2 environment* impact.ti,ab.
		3 carbon footprint*.ti,ab.
		4 resource* reduc*.ti,ab.
		5 "green* energy*".ab,ti.
		6 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ab,ti.
		7 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or
		plastic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or
		instrument*)).ti,ab
		8 exp Renewable Energy/
		9 exp Carbon Footprint/
		10 Product Packaging/ or Surgical Instruments/ or Recycling/ or Waste Management/
		11 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10
		12 exp Preoperative Care/ or exp Preoperative Period/
		13 blood test.mp. or exp Hematologic Tests/
		14 exp Tomography, X-Ray Computed/ or exp Magnetic Resonance Imaging/
		15 exp X-Rays/
		16 exp Electrocardiography/
		17 exp Diagnostic Tests, Routine/
		18 "pre-operative test* ".ab,ti.
		19 "preoperative test* ".ab,ti.
		20 "Pre-operative scan* ".ab,ti.
		21 "preoperative scan* ".ab,ti.
		22 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21
		23 11 and 12 and 22 71

		24 limit 23 to yr="2017 -Current"
		limit 24 to ("middle aged (45 plus years)" and "systematic review")
10	Can more efficient use of operating theatres and associated practices reduce the environmental impact of operations?	operat*.mp. and (theatre* or theater*).ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] operat* suite*.ti,ab. patient pathway*.ti,ab. staffing level*.ti,ab. (theatre or theater).mp. and equipment*.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (operation* or surgical).mp. and equipment*.ti,ab. [mp=title, abstract, original title, name of substance word,
		subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] (operation* or surgical).mp. and instrument*.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] day surger*.ti,ab. Operating Rooms/
		Operating Rooms/ Operating Rooms/mt, og [Methods, Organization & Administration] 3240 "Personnel Staffing and Scheduling"/ Surgical Equipment/ Surgical Instruments/
		 14 day surger*.mp. 15 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 16 sustainab*.ti,ab.
		environment* impact.ti,ab. carbon footprint*.ti,ab. resource* reduc*.ti,ab. ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ab,ti.
		21 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or plastic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or instrument*)).ti,ab. 22 sustainability.mp.
		23 environment/ or carbon footprint/ 24 Environmental Pollution/ or Waste Management/ 25 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24
		26 operation*.ti,ab. 27 surger*.ti,ab. 28 General Surgery/
		29 operation.mp. 30 26 or 27 or 28 or 29

		31 15 and 25 and 30 32 limit 31 to (english language and "systematic review" and last 5 years) 22
11	How can healthcare organisations more sustainably procure (obtain) medicines, equipment and items used during and around the time of an operation?	1 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 2 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 3 Surgical Procedures, Operative/ 4 Postoperative Care/ 5 1 or 2 or 3 or 4 6 (Sustainab* or (environment* and impact*) or "carbon footprint*").mp. or "green* energy".ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, original sitle, name of substance word, subject heading word, floating sub-heading word, keyword heading word, original sitle, name of substance word, subject heading word, floating sub-heading word, keyword heading word, original sub-heading word, ori
		24 Pharmaceutical Preparations/ 25 21 or 22 or 24 26 5 and 14 and 15 and 23 and 25

		27 limit 26 to (english language and yr="2017 -Current")
12	What drives effective sustainable innovation in	1 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, heading word, drug trade name,
	manufacturing of equipment and medical supplies	original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading
	used during and around the time of an operation?	word, candidate term word]
		2 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title,
		abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name,
		keyword heading word, floating subheading word, candidate term word]
		3 Surgery/
		4 Postoperative care/
		5 1 or 2 or 3 or 4
		6 (Sustainab* or (environment* and impact*) or "carbon footprint*").mp. or "green* energy".ti,ab. [mp=title,
		abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name,
		keyword heading word, floating subheading word, candidate term word]
		7 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		8 Carbon Footprint/ or Pollution/
		9 6 or 7 or 8
		10 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or
		plastic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or
		instrument*)).ti,ab.
		11 Packaging/ or Surgical equipment/ or Recycling/ or Waste Management/
		12 10 or 11
		13 (Equipment and Supplies, Hospital).mp. [mp=title, abstract, heading word, drug trade name, original title, device
		manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate
		term word] (10)
		14 devices/ or medical device/
		15 (Equipment or Supplies or medicine*).ti,ab.
		16 13 or 14 or 15
		17 manufacture.ti,ab.
		18 manufacture {Including Related Terms}
		19 manufacturing/
		20 16 or 17 or 19
		21 sustainable innovat*.ti,ab.
		22 9 or 21
		23 (preoperative or perioperative).ti,ab.
		24 preoperative evaluation/
		25 perioperative period/
		26 5 or 23 or 24 or 25
		27 12 and 20 and 22 and 26
		28 limit 27 to (english language and "systematic review" and yr="2017 -Current")

13	What alternative, more sustainable, materials can	1 (Operation* or Surger* or Surgical or Procedure* or "operating room" or theatre).ab,ti.
13	replace plastic packaging and equipment used during	2 Surgery/ or Operating Rooms/
	and around the time of an operation?	3 1 or 2
	and around the time of an operation?	
		(
		and (minimiz* or minimis* or reduc*))).ab,ti.
		5 Carbon Footprint/
		6 Environmental Pollution/
		7 Recycling/ or Waste Management/
		8 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or
		plastic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or
		instrument*)).ti,ab.
		9 Packaging/ or Surgical instruments/
		10 4 or 5 or 6
		11 7 or 8 or 9
		12 3 and 10 and 11
		13 limit 12 to (yr="2017 -Current" and english)
		14 limit 13 to "systematic review"
14	How can the emission of greenhouse gases and air	1 (greenhouse gas* or air pollut* or greenhouse effect* or carbon footprint or (environment* and
	pollutants associated with an operation be reduced?	impact*)).ti,ab.
		2 Greenhouse Effect/ or Air Pollution/ or Greenhouse Gas/ or Air Pollutant/
		3 1 or 2
		4 (Nitrous Oxide or Ethyl Chloride or Desflurane or Sevoflurane or Isoflurane or volatile ane?sthe*).ti,ab.
		5 ((low flow or minimal-flow) and ane?sthe*).ti,ab.
		6 Anesthetics, Inhalation/
		7 4 or 5 or 6
		8 (Operation* or Surger* or Surgical or Procedure*).ti,ab. or Surgery/
		9 3 and 7 and 8
		10 limit 9 to (yr="2017 -Current" and "systematic review")
15	How and when is it appropriate to discuss the	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	environmental impacts of care during and around the	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	time of an operation with patients?	3 Carbon Footprint/ or Environmental Pollution/
	time of an operation with patients.	4 1 or 2 or 3
		5 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		6 Surgical Procedures, Operative/
		7 5 or 6
		((discuss* or inform* or educat* or consider* or talk* or conversation* or engag* or decid* or decision*) adj4
		patient*).ti,ab.
		9 Patient Education as Topic/ or Decision Making, Shar
		10 8 or 9
		11 4 and 7 and 10
		limit 11 to (yr="2017 -Current" and "systematic review")

16	How can more sustainable reusable equipment safely	1 (Operation* or Surger* or Surgical or Procedure* or Postop* or "post op*" or preop* or "pre op*" or periop*
	be used during and around the time of an operation?	or "peri op*" or post-surgery).ti,ab.
		2 Surgical Procedures, Operative/
		3 1 or 2
		4 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
		5 Carbon Footprint/ or Environmental Pollution/
		6 4 or 5
		7 ((recycl* or reusable or reuse*) adj4 (equipment* or item* or instrument*)).ti,ab.
		8 Surgical Instruments/ or Recycling/ or Waste Management/
		9 7 or 8
		10 3 and 6 and 9
		11 (safe* or steril* or infect* or contaminat* or uncontaminat* or decontaminat* or clean* or sanitary or
		hygiene* or aseptic or disinfect* or uninfect*).ti,ab.
		12 10 and 11
		limit 12 to (yr="2017 -Current" and "systematic review")
17	How can we compare the environmental impacts of	1 (Sustainab* or "carbon footprint*" or "green* energy" or (environment* and impact*)).ti,ab.
	reusable and single-use equipment used during and	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	around the time of an operation?	3 Carbon Footprint/ or Pollution/
		4 1 or 2 or 3
		5 (((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal*)
		adj4 (pack* or equipment* or item* or instrument*)) and ((plastic* or single-use or "single use" or (individual* and
		wrap*)) adj4 (pack* or equipment* or item* or instrument*))).ti,ab.
		6 Packaging/ or Surgical equipment/ or Recycling/ or Waste Management/
		7 5 or 6
		8 (Operation* or Surger* or Surgical or Procedure*).ti,ab. or surgery/
		9 (compar* or collate* or contrast* or measure* or calculate* or evaluate*).ti,ab.
		10 4 and 7 and 8 and 9
		limit 10 to ("systematic review" and yr="2017 -Current")
18	How can healthcare professionals who deliver care	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	during and around the time of an operation be	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	encouraged to adopt sustainable actions in practice?	3 Carbon Footprint/ or Pollution/
		4 1 or 2 or 3
		5 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		6 Surgery/
		7 5 or 6
		8 ((teach* or educat* or encourag* or inform*) adj4 (staff or doctor* or surgeon* or practitioner* or
		professional*)).ti,ab.
		9 4 and 7 and 8
		10 limit 9 to (yr="2017 -Current" and "systematic review"
19	What is the most sustainable way of providing	1 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or equipment* or
	equipment packs for an operation?	instrument*) adj4 (pack* or kit* or container*)).ti,ab.

		2 Packaging/
		3 1 or 2
		4 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		5 Surgery/
		6 4 or 5
		7 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
		8 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		9 Carbon Footprint/ or Pollution/
		10 7 or 8 or 9
		11 3 and 6 and 10
20	What is the great sustainable was to storilian	
20	What is the most sustainable way to sterilise	1 (Operation* or Surgical or Procedure*).ti,ab.
	equipment used during an operation?	2 exp Surgical Procedures, Operative/
		3 1 or 2
		4 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
		5 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		6 4 or 5
		7 3 and 6
		8 (sterilis* or steriliz* or disinfect* or decontam*).ti,ab.
		9 exp Sterilization/
		10 8 or 9
		11 ("surgical tool*" or "surgical equipment*or surgical instrument*").ti,ab.
		12 7 and 10 and 11
21	How do we measure and compare the environmental	1 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
	impacts of the different ways of performing the same	2 exp Surgical Procedures, Operative/
	operation (e.g., keyhole and open surgery)?	3 1 or 2
		4 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
		5 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		6 4 or 5
		7 3 and 6
		8 ("Laparoscopic surger*" or "Minimally Invasive" or keyhole or "key hole" or "micro surger*").ti,ab.
		9 laparoscopic surgery/
		10 8 or 9
		11 7 and 10
		12 ("open surger*" or "aggressive surg*" or "invasive").ti,ab.
		13 open surgery/
		14 12 or 13
		15 11 and 14
		16 (method* or approach* or version* or "different way").ti,ab.
		17 15 and 16
		18 limit 17 to (human and english language and "systematic review" and yr="2017 - 2022")
	•	· · · · · · · · · · · · · · · · · · ·

22	How should the environmental impact of an operation	1 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
	be weighed against its clinical outcomes and financial	2 exp Surgical Procedures, Operative/
	costs?	3 1 or 2
		4 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
		5 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		6 4 or 5
		7 3 and 6
		8 "environmental impact*".ti,ab.
		9 7 and 8
		10 Postoperative Complications/
		11 Treatment Outcome/
		12 ("clinical outcome*" or "surg* outcome*" or "treatment outcome*").ti,ab.
		13 10 or 11 or 12
		14 ("financial cost" or "monetary cost" or "triple bottom line" or "financing cost*").ti,ab.
		15 "CO2 equivalent*".ti,ab.
		16 14 or 15
		17 9 and 13 and 16 (0)
23	What is the role of virtual consultations in reducing the	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	environmental impact associated with undergoing an	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	operation?	3 1 or 2
		4 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		5 Surgical Procedures, Operative/
		6 4 or 5
		7 3 and 6
		8 ("virtual consultat*" or "online consult*" or "remote consult*").ti,ab.
		9 exp Telemedicine/ and exp "Referral and Consultation"/
		10 8 or 9
		11 7 and 10
		12 limit 11 to (english language and systematic reviews and last 5 years)
		13 "travel to".ti,ab.
		14 "remote attendance".ti,ab.
		15 13 or 14
		16 12 and 15
24	How can the amount of waste generated during and	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	around the time of an operation be minimised?	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		3 1 or 2
		4 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		5 Surgical Procedures, Operative/
		6 4 or 5
		7 3 and 6
		8 exp Medical Waste/
		9 waste*.ti,ab.

10 8 or 9 11 7 and 10 12 ("Reduce*" or Reuse* or Recycle* or "re use*").ti,ab. 13 exp Recycling/ 14 12 or 13 15 11 and 14 16 limit 15 to (english language and systematic reviews and last 5 years) 25 Can alternative, more environmentally sustainable methods of disposal be used for waste that is generated during and around the time of an 10 8 or 9 11 7 and 10 12 ("Reduce*" or Recycle* or "re use*").ti,ab. 13 exp Recycling/ 14 12 or 13 15 11 and 14 16 limit 15 to (english language and systematic reviews and last 5 years) 1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab. 2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 3 1 or 2			
12 ("Reduce*" or Reuse* or Recycle* or "re use*").ti,ab. 13 exp Recycling/ 14 12 or 13 15 11 and 14 15 to (english language and systematic reviews and last 5 years) 16 limit 15 to (english language and systematic reviews and last 5 years) 17 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab. 18 (wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 19 (wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 19 (wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 19 (wast* or resource*)			11 7 10
13 exp Recycling/ 14 12 or 13 15 11 and 14 16 limit 15 to (english language and systematic reviews and last 5 years) 25 Can alternative, more environmentally sustainable methods of disposal be used for waste that is generated during and around the time of an 1 (sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab. 2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 3 1 or 2			
14 12 or 13 15 11 and 14 16 16 17 18 19 19 19 19 19 19 19	1		
15 11 and 14 16 limit 15 to (english language and systematic reviews and last 5 years) 25 Can alternative, more environmentally sustainable methods of disposal be used for waste that is generated during and around the time of an 16 limit 15 to (english language and systematic reviews and last 5 years) 17 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab. 28 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 30 1 or 2			· · · · · · · · · · · · · · · · · · ·
16 limit 15 to (english language and systematic reviews and last 5 years) 25 Can alternative, more environmentally sustainable methods of disposal be used for waste that is generated during and around the time of an 16 limit 15 to (english language and systematic reviews and last 5 years) 17 18 19 19 19 19 19 19 19			-· ·
Can alternative, more environmentally sustainable methods of disposal be used for waste that is generated during and around the time of an 1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab. 2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 3 1 or 2			
methods of disposal be used for waste that is generated during and around the time of an 2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 3 1 or 2			
generated during and around the time of an 3 1 or 2	25	Can alternative, more environmentally sustainable	
		methods of disposal be used for waste that is	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		generated during and around the time of an	3 1 or 2
operation? 4 (Operation* or Surger* or Surgical or Procedure*).ti,ab.		operation?	4 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
5 Surgical Procedures, Operative/			5 Surgical Procedures, Operative/
6 4 or 5			6 4 or 5
7 3 and 6			7 3 and 6
8 exp Medical Waste/			8 exp Medical Waste/
9 waste*.ti,ab.			9 waste*.ti,ab.
10 8 or 9			'
11 7 and 10			11 7 and 10
12 (incinerat* or landfill or "land fill" or dispose*).ti,ab.			
13 11 and 12			
14 limit 13 to (english language and systematic reviews and last 5 years)			
How much recyclable waste generated during an 1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.	26	How much recyclable waste generated during an	
operation is being appropriately recycled? 2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.			
3 1 or 2		operation is semigraphically responds.	
4 (Operation* or Surger* or Surgical or Procedure*).ti,ab.			
5 Surgical Procedures, Operative/			
6 4 or 5			
7 3 and 6			
8 exp Medical Waste/			
9 waste*.ti,ab.			
10 8 or 9			
11 7 and 10			
12 ("Reduce*" or Reuse* or Recycle* or "re use*").ti,ab.			
13 exp Recycling/			
15 exp recycling/ 14 12 or 13			
14 12 0/ 13 15 11 and 14			
15 11 and 14 16 limit 15 to (english language and systematic reviews and last 5 years)			
17 (generat* or create* or make).ti,ab.			
18 16 and 17	27	Have decree retained as the consequent of control of	
How do we minimize the amount of water used for 1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.	2/		
'scrubbing up' (handwashing) for an operation? 2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.		'scrubbing up' (handwashing) for an operation?	
3 1 or 2	<u></u>		3 1 Or 2

		4 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		5 Surgical Procedures, Operative/
		7 3 and 6
		8 ("scrubbing up" or handwashing or "hand disinfect*").ti,ab.
		9 (hand* adj3 wash*).ti,ab.
		10 exp Hand Disinfection/
		11 8 or 9 or 10
		12 7 and 11
		13 limit 12 to (english language and systematic reviews and last 5 years)
28	What can healthcare organisations learn from	1 ("healthcare organisation*" or "health care organisation*" or "health care
	healthcare systems in other countries about	organization*").ti,ab.
	sustainable surgical pathways?	2 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	Sustainable surficer patriways:	3 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		4 2 or 3
		5 1 and 4
		6 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		7 (pathway* or "path way*").ti,ab.
		8 6 and 7
		9 5 and 8
		10 limit 9 to (english language and humans and yr="2017 - 2022" and "systematic review")
29	How can we reduce the environmental impact of	1 ((Sustainab* or "environment* impact*" or "carbon footprint*" or "green* energy" or (waste or resource*)) and
23	nitrous oxide used in healthcare?	(minimiz* or reduc*)).ti,ab.
	Tiltious oxide used in fleatificare:	2 Carbon Footprint/
		3 Medical Waste/ or Waste Management/
		4 1 or 2 or 3
		5 "nitrous oxide".ti,ab.
		6 Nitrous Oxide/ 7 5 or 6
		8 4 and 7
		9 ("health care" or healthcare).ti,ab.
		10 "Delivery of Health Care"/
		11 9 or 10 12 8 and 11
20	How do we define and avoid low hanefit as	13 limit 12 to (english language and yr="2017 - 2022" and "systematic review")
30	How do we define and avoid low-benefit or	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	unnecessary operations?	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		3 1 or 2
		4 ("low benefit*" or "low benefit surger*" or "low benefit operat*").ti,ab.
		5 ("Operative versus non operative*" or "non operative versus operative*" or "operative" or "non operative").ti,ab.
		6 4 and 5
		7 (Operation* or Surger* or Surgical or Procedure*).ti,ab.
		8 Surgical Procedures, Operative/

		9 7 or 8
		10 ("non surg*" or "non operat*" or "conservative management").ti,ab.
		11 9 and 10
		12 ("shared decision making" or "shared-decision making").ti,ab.
		13 3 and 6 and 11 and 12
24	Miles tie the consideration and of different	1 0 0 0
31	What is the environmental impact of different	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	anaesthetic techniques (e.g., different types of	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	general, regional and local anaesthesia) used for the	3 1 or 2
	same operation?	4 ("anaesthe* technique*" or "anesthe* technique*" or "anaesthe* method*" or "anesthe* method*" or "method*
		of anaesth*" or "method* of anesthe*").ti,ab.
		5 3 and 4
		6 ("general anaesthe*" or "general anesthe*").ti,ab.
		7 ("regional anaesthe*" or "regional anesthe*").ti,ab.
		8 ("local anaesthe*" or "local anesthe*").ti,ab.
		9 6 or 7 or 8
		10 5 and 9
		11 ("volatile versus total intravenous anaesthe*" or "volatile versus total intravenous anesthe*").ti,ab.
		12 ("volatile anaesthe*" or "volatile anesthe*").ti,ab.
		13 ("total intravenous anaesthe*" or "total intravenous anesthe*").ti,ab.
		14 11 or 12 or 13
		15 10 and 14
		16 Surgical Procedures, Operative/
		17 15 and 16
		18 limit 17 to (english language and humans and yr="2017 - 2022" and "systematic review")
32	What are the barriers to using more sustainable	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
32	anaesthetic practices?	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	anacstrictic practices:	3 1 or 2
		4 ("Problem* with reduc*" or "barrier* with reduc*" or "barrier* to reduc*" or "aim to reduc*" or "need to
		reduc*").ti,ab.
		5 ("volatile anaesthe*" or "volatile anesthe*").ti,ab.
		6 4 and 5
		7 3 and 6
- 22		
33	What role does re-cycling inhaled anaesthetics have in	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	reducing the environmental impact of inhaled	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	anaesthesia?	3 1 or 2
		4 recycl*.ti,ab.
		5 ("anaesthe*" or "anesthe*").ti,ab.
		6 ("inhal*" or "gas*").ti,ab.
		7 5 and 6
		8 3 and 4 and 7
		9 Anesthesia/

		10 8 and 9
		11 limit 10 to (english language and humans and yr="2017 - 2022" and "systematic review")
		1 epidural analgesia/
of pair	n relief for an operation?	2 (epidural adj3 (Oral or intravenous or regional or neuraxial)).ab,ti.
		3 carbon footprint/
		4 environmental impact/
		5 "Sustainab*".ab,ti.
		6 (environment* adj3 impact*).ab,ti.
		7 "carbon footprint* ".ab,ti.
		8 "green energy".ab,ti.
		9 (hospital adj3 (waste or resource*)).ab,ti.
		10 (surg* adj3 (waste or resource*)).ab,ti.
		11 (operative adj3 (waste or resource*)).ab,ti.
		12 (Analgesi* adj3 (waste or resource*)).ab,ti.
		13 ("pain relief" adj3 (waste or resource*)).ab,ti.
		14 Medical Waste/ (1409)
		15 Waste Management/ or Medical Waste Disposal/
		16 (minimiz* or minimis* or reduc*).ab,ti.
		17 1 or 2
		18 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14
		19 15 or 16
		20 17 and 18 and 19
		21 limit 20 to (yr="2016 - 2022" and "systematic review")
		1 exp Surgical Procedures, Operative/
		2 ((surg* or operat*) adj3 (procedure* or treatment*)).ab,ti.
surgica	cal treatments for the same condition?	3 1 or 2
		4 exp Therapeutics/
		5 (non-surg* adj3 (therap* or treatment*)).ab,ti.
		6 4 or 5
		7 exp Environmental Monitoring/
		8 Carbon Footprint/
		9 "environment* adj3 sustainab*".ab,ti.
		10 (environment* adj3 impact*).ab,ti.
		11 "carbon footprint".ab,ti.
		12 "green energy".ab,ti.
		13 exp Renewable Energy/
		14 "renewable energy".ab,ti.
		15 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14
		16 3 and 6 and 15
		17 limit 16 to (yr="2017 - 2022" and "systematic review")
		1 "Sustainab*".ab,ti.
surgica	cal pathways compared to inpatient pathways?	2 "carbon footprint* ".ab,ti.

		3 "green energy".ab,ti.
		4 (waste adj3 (hospital or medical or surgical)).ab,ti.
		5 (environment* adj3 (impact or management or protect*)).ab,ti.
		6 "renewable energy".ab,ti.
		7 "recycl*".ab,ti.
		8 (waste adj3 (minimis* or minimiz* or reduc* or recycl*)).ab,ti.
		9 (pollut* adj3 (minimis* or minimiz* or reduc*)).ab,ti.
		10 "zero waste".ab,ti.
		11 "Conservation of Natural Resources"/
		12 Carbon Footprint/
		13 exp Environmental Monitoring/
		14 environmental impact/
		15 exp Medical Waste Disposal/
		16 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15
		17 Ambulatory Surgical Procedures/
		18 (day adj3 surg*).ab,ti.
		19 (ambulatory adj3 surg*).ab,ti.
		20 (outpatient* adj3 surg*).ab,ti.
		21 17 or 18 or 19 or 20
		22 (inpatient adj3 surg*).ab,ti.
		23 16 and 21 and 22
		24 limit 23 to (yr="2017 -Current" and "systematic review")
37	What is the role of community-based care in reducing	1 "Sustainab*".ab,ti.
	the environmental impact of operations?	2 "carbon footprint* ".ab,ti.
		3 "green energy".ab,ti.
		4 (waste adj3 (hospital or medical or surgical)).ab,ti.
		5 (minimiz* or minimis* or reduc*).ab,ti.
		6 (environment* adj3 (impact or management or protect*)).ab,ti.
		7 "renewable energy".ab,ti.
		8 "recycl*".ab,ti.
		9 (waste adj3 (minimis* or minimiz* or reduc* or recycl*)).ab,ti.
		10 (pollut* adj3 (minimis* or minimiz* or reduc*)).ab,ti. (5521)
		11 "zero waste".ab,ti.
		12 "Conservation of Natural Resources"/
		13 Carbon Footprint/
		14 exp Environmental Monitoring/
		15 environmental impact/
		16 exp Medical Waste Disposal/
		17 exp Surgical Procedures, Operative/
		18 exp General Surgery/
		19 (surg* adj3 (procedure* or treatment* or therap*)).ab,ti.
		20 18 or 19
	<u> </u>	

		21 exp Community Health Services/
		22 (community adj3 (care or service*)).ab,ti.
		23 21 or 22
		24 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16
		25 20 and 23 and 24
		26 limit 25 to (yr="2017 - 2022" and "systematic review")
20	Is it more environmentally sustainable and safe for	
38		
	patients to have more of their early post-operative	2 "carbon footprint* ".ab,ti.
	care at home compared to hospital?	3 "green energy".ab,ti.
		4 (waste adj3 (hospital or medical or surgical)).ab,ti.
		5 (minimiz* or minimis* or reduc*).ab,ti.
		6 (environment* adj3 (impact or management or protect*)).ab,ti.
		7 "renewable energy".ab,ti.
		8 "recycl*".ab,ti.
		9 (waste adj3 (minimis* or minimiz* or reduc* or recycl*)).ab,ti.
		10 (pollut* adj3 (minimis* or minimiz* or reduc*)).ab,ti.
		11 "zero waste".ab,ti.
		12 "Conservation of Natural Resources"/
		13 Carbon Footprint/
		14 exp Environmental Monitoring/
		15 environmental impact/
		16 exp Medical Waste Disposal/
		17 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16
		18 Postoperative Care/
		19 exp Hospitalization/
		20 18 and 19
		21 (postoperat* adj3 "hospital care").ab,ti.
		22 (post-operat* adj3 "hospital care").ab,ti.
		23 (post-surg* adj3 "hospital care").ab,ti.
		24 20 or 21 or 22 or 23
		25 Postoperative Care/
		26 Home Care Services/
		27 (postoperat* adj3 home).ab,ti.
		28 (post-operat* adj3 home).ab,ti.
		29 (post-surg* adj3 home).ab,ti. (7)
		30 (home adj3 (surg* adj3 recover*)).ab,ti.
		31 25 and 26
		32 27 or 28 or 29 or 30 or 31
		33 exp Patient Safety/
		34 (patient* adj3 safety).ab,ti.
		35 33 or 34
		36 17 and 24 and 32 and 35
	<u> </u>	50

39	How can the waste of drugs be avoided during and	1 exp Perioperative Period/
	around the time of an operation?	2 "perioperat*".ab,ti.
		3 1 or 2
		4 (waste adj3 (drug or an?esthetic* or medic* or pharmac*)).ab,ti.
		5 Medical Waste/
		6 4 or 5
		7 exp Waste Management/
		8 Medical Waste Disposal/
		9 (waste adj3 (management or dispos* or reduc*)).ab,ti.
		10 7 or 8 or 9
		11 3 and 6 and 10
		12 limit 11 to (yr="2017 - 2022" and "systematic review")
40	How can drug syringes be used better to reduce their	1 "Sustainab*".ab,ti.
	environmental impact?	2 "carbon footprint* ".ab,ti.
		3 "green energy".ab,ti.
		4 (waste adj3 (hospital or medical or surgical)).ab,ti.
		5 (minimiz* or minimis* or reduc*).ab,ti.
		6 (environment* adj3 (impact or management or protect*)).ab,ti.
		7 "renewable energy".ab,ti.
		8 "recycl*".ab,ti.
		9 (waste adj3 (minimis* or minimiz* or reduc* or recycl*)).ab,ti.
		10 (pollut* adj3 (minimis* or minimiz* or reduc*)).ab,ti.
		11 "zero waste".ab,ti.
		12 "Conservation of Natural Resources"/
		13 Carbon Footprint/
		14 exp Environmental Monitoring/
		15 environmental impact/
		16 exp Medical Waste Disposal/
		17 Syringes/
		18 "syringe*".ab,ti.
		19 17 or 18
		20 1 or 2 or 3 or 4 or 6 or 7 or 12 or 13 or 14 or 15
		21 5 or 9 or 10 or 11 or 16
		22 19 and 20 and 21
		23 limit 22 to (yr="2017 - 2022" and "systematic review")
41	What is the most environmentally sustainable way to	1 sustainab*.ti,ab.
	deliver oxygen in the post-operative period?	2 environment* impact*.ti,ab.
		3 carbon footprint*.ti,ab.
		4 ((waste or resource*) and (minimiz* or reduc*)).ti,ab.
		5 environmental protection/
		6 carbon footprint/
		7 environmental impact/

		8 "human impact (environment)"/ or environment/
		9 waste management/
		10 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9
		11 oxygen*.ti,ab.
		12 oxygen deliver*.ti,ab.
		13 oxygen admin*.ti,ab.
		14 oxygen/ad [Drug Administration]
		15 oxygen/
		16 oxygen delivery device/
		17 11 or 12 or 13 or 14 or 15 or 16
		18 (post op* or postop*).ti,ab.
		19 postop* period.ti,ab.
		20 post op* period.ti,ab.
		21 postoperative care/
		22 18 or 19 or 20 or 21
		23 10 and 17 and 22
		24 limit 23 to (english language and last 5 years)
42	What are the most environmentally sustainable and	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	effective methods of surgical wound care (e.g.,	2 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance
	dressings, wound cleaning)?	word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept
		word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		3 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title,
		abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		4 2 or 3
		5 1 and 4
		6 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		7 1 or 6
		8 4 and 7
		9 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or
		plastic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or
		instrument*)).ti,ab.
		10 exp Product Packaging/
		11 exp Wound Healing/
		12 exp Bandages/
		13 10 or 11 or 12
		14 9 and 13
		15 5 and 14
		16 limit 15 to (yr="2017 -Current" and "systematic review")
	1	, , , , , , , , , , , , , , , , , , , ,

43	What are the sustainable and effective alternatives to	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	carbon dioxide used in laparoscopic (keyhole surgery	2 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance
	of the abdomen) surgery?	word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept
	, , ,	word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		3 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title,
		abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		4 2 or 3
		5 1 and 4
		6 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		7 1 or 6
		8 4 and 7
		9 exp Laparoscopy/
		10 exp Minimally Invasive Surgical Procedures/
		11 exp Carbon Dioxide/
		12 gas* free*.ti,ab.
		13 9 or 10
		14 co2.ti,ab.
		15 11 or 12 or 14
		16 13 and 15
		17 8 and 16 (
		18 limit 17 to (yr="2017 -Current" and "systematic review")
44	What is the most environmentally sustainable way to	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	provide nutrition for patients undergoing operations?	2 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance
		word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept
		word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 3 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title,
		3 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		4 2 or 3
		5 1 and 4
		6 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		7 1 or 6
		8 4 and 7
		9 Enteral Nutrition/ or Nutrition Assessment/ or Nutrition Therapy/ or Nutrition Policy/
		10 exp Food Service, Hospital/
		11 exp "Conservation of Natural Resources"/
		12 11 and food*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-
		heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word,
		rare disease supplementary concept word, unique identifier, synonyms]

		13 exp Food/
		14 9 or 10 or 12 or 13
		15 8 and 14
		16 limit 15 to (yr="2017 -Current" and "systematic review")
45	What is the most environmentally sustainable method	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	of providing written information to patients?	2 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance
	or promaing written and matter to patients.	word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept
		word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		3 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title,
		abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		4 2 or 3
		5 1 and 4
		6 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		7 1 or 6
		8 4 and 7
		9 exp Communication/
		10 exp "Appointments and Schedules"/
		11 9 and 10
		12 patient information*.ti,ab.
		13 patient communication*.ti,ab.
		14 email*.ti,ab.
		15 paperwork*.ti,ab.
		16 exp Letter/
		17 12 or 13 or 14 or 15 or 16
		18 7 and 17
		19 limit 18 to (yr="2017 -Current" and "systematic review")
		20 3 and 18
46	What are the best ways to educate healthcare	1 (Sustainab* or (environment* and impact*) or "carbon footprint*" or "green* energy").ti,ab.
	professionals who provide care before, during and	2 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
	after operations, about sustainable healthcare?	3 1 or 2
		4 "Educat*".ti,ab.
		5 exp Health Knowledge, Attitudes, Practice/
		6 4 or 5
		7 ("health* professional*" or "health* work*" or "health* provider*").ti,ab.
		8 ("pre-operative care" or "post-operative care").ti,ab.
		9 Surgical Procedures, Operative/
		10 8 or 9
		11 3 and 6 and 7 and 10
		12 limit 11 to (english language and humans and yr="2017 - 2022" and "systematic review")

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		40 // () 1/0
		18 (Information and (Store or storage or share or sharing or Retriev*)).ti,ab.
		19 ((paper or physical) and record*).ti,ab.
		20 Medical Records Systems, Computerized/ or Electronic Health Records/
		21 electronic record*.ti,ab.
		22 17 or 18 or 19 or 20 or 21
		23 ((health or healthcare or health care) and (personnel or professional*)).ti,ab.
		24 (doctor* or surgeon* or nurs* or AHP* or allied health professional*).ti,ab.
		25 exp Health Personnel/
		26 23 or 24 or 25
		27 12 and 16 and 22 and 26
		28 limit 27 to (english language and yr="2017 -Current" and "systematic review")
49	How can energy usage within an operating theatre be	1 sustainab*.ti,ab.
	safely reduced?	2 environment* impact*.ti,ab.
		3 carbon footprint*.ti,ab.
		4 green* energy.ti,ab.
		5 resource* reduc*.ti,ab.
		6 ((waste or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		7 environmental pollut*.ti,ab.
		8 (reuse or reusable).ti,ab.
		9 environmental pollution/ or environmental monitoring/ (144759)
		10 Renewable Energy/
		11 Carbon Footprint/
		12 environmental impact.ti,ab.
		13 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12
		14 energy usage.ti,ab.
		15 energy consumption.ti,ab.
		16 exp Energy-Generating Resources/
		17 14 or 15 or 16
		18 operat* theatre*.ti,ab.
		19 operat* theater*.ti,ab.
		20 Operating Rooms/
		21 Operat* Room*.ti,ab.
		22 operating theatre light*.ti,ab.
		23 operating theater light*.ti,ab.
		24 operating room* light*.ti,ab.
		25 operating theatre ventilat*.ti,ab.
		26 operating theater ventilat*.ti,ab.
		27 operating room ventilat*.ti,ab.
		28 air conditioning/ or heating/ or life support systems/ or lighting/ or temperature/ or ventilation/
		29 (air conditioning or heat* or life support system*).ti,ab.
		30 ((medical or operating) and equipment).ti,ab.
		31 exp "Equipment and Supplies, Hospital"/

		32 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 33 13 and 17 and 32 34 limit 33 to (english language and yr="2017 -Current" and "systematic review")
1	What is the most environmentally sustainable way to maintain a patient's body temperature during an operation?	1 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 2 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 3 Surgical Procedures, Operative/ 4 Surgical Procedures, Operative/ 5 1 or 2 or 3 or 4 6 1 or 2 or 3 or 4 6 1 or 2 or 3 or 4 or 5 7 (Sustainab* or (environment* and impact*) or "carbon footprint*").mp. or "green* energy".ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, unique identifier, synonyms] 8 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab. 9 Carbon Footprint/ or Environmental Pollution/ 10 7 or 8 or 9 11 patient* body temperature*.ti,ab. 12 body temperature*.ti,ab. 13 force* air warm* device*.ti,ab. 14 fluid warmer*.ti,ab. 15 force* air warm* device*.ti,ab. 16 gliud warmer*.ti,ab. 17 underbod* warmer*.ti,ab. 18 fluid warmer*.ti,ab. 19 patient* warmer*.ti,ab. 20 reflective blanket*.ti,ab. 21 jon 16 or 18 or 19 or 20 25 and 10 and 14 and 21 23 limit 24 to (english language and yr="2017-Current" and "systematic review") 24 5 and 10 and 26 25 limit 27 to (english language and yr="2017-Current" and "systematic review")

	being disposed of, to reduce its environmental impact?	word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms
		2 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title,
		abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		3 Surgical Procedures, Operative/
		4 Postoperative care/
		5 1 or 2 or 3 or 4
		6 (Sustainab* or (environment* and impact*) or "carbon footprint*").mp. or "green* energy".ti,ab. [mp=title,
		abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		7 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		8 Carbon Footprint/ or Environmental Pollution/
		9 6 or 7 or 8
		10 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or
		plastic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or
		instrument*)).ti,ab.
		11 Product Packaging/
		12 Surgical Instruments/
		13 Recycling/
		14 Waste Management/
		15 10 or 11 or 12 or 13 or 14
		16 repair*.ti,ab.
		17 15 or 16
		18 ((medical or surg*) and (equipment or device* or instrument*)).ti,ab.
		disposable equipment/ or exp "equipment and supplies, hospital"/
		20 exp Surgical Instruments/
		21 exp Surgical Equipment/
		22 18 or 19 or 20 or 21
		23 5 and 9 and 17 and 22
		24 limit 23 to (english language and yr="2017 -Current" and "systematic review")
52	How can care packages which aim to enable rapid	1 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance
	recovery from surgery (e.g., ERAS) affect the	word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept
	environmental impact of an operation?	word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		2 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title,
		abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		3 Surgical Procedures, Operative/

- 4 Surgical Procedures, Operative/
- 5 1 or 2 or 3 or 4
- 6 1 or 2 or 3 or 4 or 5
- 7 (Sustainab* or (environment* and impact*) or "carbon footprint*").mp. or "green* energy".ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 8 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
- 9 Carbon Footprint/ or Environmental Pollution/
- 10 7 or 8 or 9
- 11 patient* body temperature*.ti,ab.
- 12 body temperature*.ti,ab.
- 13 Body Temperature/
- 14 11 or 12 or 13
- 15 force* air warm* device*.ti,ab.
- 16 Body Temperature Regulation/ or Intraoperative Complications/
- 17 underbod* warmer*.ti,ab.
- 18 fluid warmer*.ti,ab. (
- 19 patient* warmer*.ti,ab.
- 20 reflective blanket*.ti.ab.
- 21 15 or 16 or 18 or 19 or 20
- 22 5 and 10 and 14 and 21
- 23 limit 22 to (english language and yr="2017 -Current" and "systematic review")
- 24 5 and 10 and 14
- 25 limit 24 to (english language and yr="2017 -Current" and "systematic review")
- 26 14 or 21
- 27 5 and 10 and 26
- 28 limit 27 to (english language and yr="2017 -Current" and "systematic review")
- 29 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 30 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- 31 Surgical Procedures, Operative/
- 32 Postoperative Care/
- 33 29 or 30 or 31 or 32
- 34 (Sustainab* or (environment* and impact*) or "carbon footprint*").mp. or "green* energy".ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

		35 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		36 Carbon Footprint/ or Environmental Pollution/
		37 34 or 35 or 36
		38 rapid recover*.ti,ab.
		39 ((surg* or operat*) and recover*).ti,ab.
		40 38 or 39
		41 care package*.ti,ab.
		42 ERAS.ti,ab.
		43 Enhanced Recovery after Surgery.ti,ab.
		44 41 or 42 or 43
		45 33 and 37 and 40 and 44
		46 limit 45 to (english language and yr="2017 -Current" and "systematic review")
		47 postoperative recover*.ti,ab.
		48 post operative recover*.ti,ab.
		49 Postoperative Care/
		50 40 or 47 or 48 or 49
		51 33 and 37 and 44 and 50
		52 limit 51 to (english language and yr="2017 -Current" and "systematic review")
53	How can waste from medical gas cylinders be reduced?	1 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance
		word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept
		word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		2 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title,
		abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		3 Surgical Procedures, Operative/
		4 Carbon Footprint/ or Environmental Pollution/
		5 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or
		plastic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or
		instrument*)).ti,ab.
		6 Product Packaging/
		7 Surgical Instruments/ or Recycling/ or Waste Management/
		8 Postoperative Care/
		9 1 or 2 or 3 or 8
		10 (Sustainab* or (environment* and impact*) or "carbon footprint*").mp. or "green* energy".ti,ab. [mp=title,
		abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading
		word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary
		concept word, unique identifier, synonyms]
		11 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		12 4 or 10 or 11
		13 5 or 6 or 7
		14 medical gas cylinder*.ti,ab.

		15 cylinder*.ti,ab.
		16 gas cylinder*.ti,ab.
		17 14 or 15 or 16
		18 9 and 12 and 13 and 17
54	What effect do standards, guidelines and quality improvement initiatives have on the environmental	1 (Operation* or Surger* or Surgical).mp. or Procedure*.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept
	impact of operations?	word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] 2 Surgical Procedures, Operative/
		3 (Postop* or "post op*" or preop* or "pre op*" or periop* or "peri op*").mp. or post-surgery.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		4 Postoperative Care/ 5 1 or 2 or 3 or 4
		5 1 or 2 or 3 or 4 6 (Sustainab* or (environment* and impact*) or "carbon footprint*").mp. or "green* energy".ti,ab. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		7 ((wast* or resource*) and (minimiz* or minimis* or reduc*)).ti,ab.
		8 Carbon Footprint/ or Environmental Pollution/ (20296)
		9 6 or 7 or 8
		10 ((recycl* or reusable or reuse or biodegradable or degradable or compostable or eco* or paper* or metal* or plastic* or single-use or "single use" or (individual* and wrap*)) adj4 (pack* or equipment* or item* or
		instrument*)).ti,ab. (8527)
		11 Product Packaging/
		12 Surgical Instruments/
		13 Recycling/ or Waste Management/
		14 10 or 11 or 12 or 13
		15 (standard* or policy or policies or guideline*).ti,ab.
		16 Reference Standards/
		17 policy/
		18 Practice Guideline/ or Guideline Adherence/
		19 Quality Improvement/
		20 quality improve* initiative*.ti,ab.
		21 15 or 16 or 17 or 18 or 19 or 20
		22 5 and 9 and 14 and 21
		23 limit 22 to (english language and yr="2017 -Current" and "systematic review")
55	What is the most sustainable method to launder	1 sustainab*.ti,ab.
	clothing worn when delivering care around an	2 environment* impact*.ti,ab.
	operation?	3 carbon footprint*.ti,ab.
		4 green* energy.ti,ab.
		5 ((waste or resource*) and (minimiz* or reduc*)).ti,ab.

		6	environmental pollut*.ti,ab.
		7	Health Services Accessibility/
		8	1 or 2 or 3 or 4 or 5 or 6 or 7
		9	(launder* or laundry).ti,ab.
		10	(wash* and clothe*).ti,ab.
		11	Surgical Attire/ or Clothing/
		12	(operation* and care).ti,ab.
		13	(((postop* or post op* or preop*) and pre op*) or periop* or peri op*).ti,ab.
		14	9 or 10 or 11
		15	12 or 13
		16	8 and 14 and 15
		17	limit 16 to (english language and yr="2017 -Current" and "systematic review")
56	How do we measure the carbon footprint of an	1	carbon footprint*.ti,ab.
	operation?	2	environment* impact*.ti,ab.
		3	sustainab*.ti,ab.
		4	((waste or resource*) and (minimiz* or reduc*)).ti,ab.
		5	environmental pollut*.ti,ab.
		6	Carbon Footprint/
		7	measur*.ti,ab.
		8	calculat*.ti,ab.
		9	operation*.ti,ab.
		10	surger*.ti,ab.
		11	Surgical Procedures, Operative/ec, es [Economics, Ethics]
		12	Humans/su [Surgery]
		13	1 or 2 or 3 or 4 or 5 or 6
		14	7 or 8
		15	9 or 10 or 11 or 12
		16	13 and 14 and 15
		17	limit 16 to (english language and systematic reviews and last 5 years) (1)
57	How can the different types of environmental impacts	1	environment* impact*.ti,ab.
	(e.g., global warming, waste, resource utilisation)	2	sustainab*.ti,ab.
	associated with care during and around the time of an	3	carbon footprint*.ti,ab.
	operation be prioritised and balanced against one	4	environmental pollut*.ti,ab.
	another?	5	((waste or resource*) and (minimiz* or reduc*)).ti,ab.
		6	global warming.ti,ab.
		7	Environment/
		8	Global Warming/ or Environmental Pollution/
		9	Sustainable Development/
		10	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9
		11	(operation* and care).ti,ab.
		12	(((postop* or post op* or preop*) and pre op*) or periop* or peri op*).ti,ab.
		13	patient care.ti,ab.

		14 (operation* and care).mp. [mp=title, abstract, original title, name of substance word, subject heading word,
			ub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary
			vord, rare disease supplementary concept word, unique identifier, synonyms]
			Perioperative Care/
		16 P	Postoperative Care/
		17 1	11 or 12 or 13 or 14 or 15 or 16
		18 p	prioritis*.mp. or balanc*.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading
		word, floa	ating sub-heading word, keyword heading word, organism supplementary concept word, protocol
		suppleme	ntary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		19 p	prioritiz*.mp. or balanc*.ti,ab. [mp=title, abstract, original title, name of substance word, subject heading
		word, floa	ating sub-heading word, keyword heading word, organism supplementary concept word, protocol
		suppleme	ntary concept word, rare disease supplementary concept word, unique identifier, synonyms]
		20 r	ank*.ti,ab.
		21 p	prioritise.mp.
		22 p	prioritize*.mp.
		23 1	18 or 19 or 20 or 21 or 22
			LO and 17 and 23
		25 li	imit 24 to (english language and systematic reviews and last 5 years)
58	What is the most sustainable way to provide lighting in	1 s	sustainab*.ti,ab.
	the operating theatre?	2 e	environment* impact*.ti,ab.
			rarbon footprint*.ti,ab.
			(waste or resource*) and (minimiz* or reduc*)).ti,ab.
			green* energy.ti,ab.
			Sustainable Development/ or Global Health/
			Carbon Footprint/ or Greenhouse Effect/
			L or 2 or 3 or 4 or 5 or 6 or 7
			ight*.ti,ab.
			ight* source*.ti,ab.
			ight/
			ighting/
			9 or 10 or 11 or 12
			operating theatre*.ti,ab.
			operating theater*.ti,ab.
			operating room*.ti,ab.
			operating suite*.ti,ab.
			Operating Rooms/
			14 or 15 or 16 or 17 or 18
			3 and 13 and 19
E0.	How can environmental sustainability be incorporated		imit 20 to (english language and systematic reviews and last 5 years) sustainab*.ti,ab.
59	· · · · · · · · · · · · · · · · · · ·		environment* impact*.ti,ab.
	into the organisational management of operating theatres?		·
	uleatres:	5 0	carbon footprint*.ti,ab.

		4	((waste or resource*) and (minimiz* or reduc*)).ti,ab.
		5	green* energy.ti,ab.
		6	Sustainable Development/
		7	environment/ or carbon footprint/
		8	Environmental Pollution/
		9	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8
		10	organi?ation* manag*.ti,ab.
		11	organi?ation* admin*.ti,ab.
		12	organisational management.mp.
		13	organizational management.mp.
		14	organisation* admin*.mp.
		15	10 or 11 or 12 or 13 or 14
		16	operating theatre*.ti,ab.
		17	operating theater*.ti,ab.
		18	operating room*.ti,ab.
		19	operating suite*.ti,ab.
		20	Operating Rooms/
		21	16 or 17 or 18 or 19 or 20
		22	9 and 15 and 21
		23	limit 22 to (english language and yr="2017 -Current" and systematic reviews
60	How can the provision and administration of medicines	1	((provision or adminis*) and medicine*).ti,ab.
	to patients undergoing operations be made more	2	((manufactur* or deliver* or stor*) and medicine*).ti,ab.
	environmentally sustainable?	3	medicine*.mp. and prescri*.ti,ab.
		4	prescription drug/ or prescription/
		5	1 or 2 or 3 or 4
		6	operation*.ti,ab.
		7	surger*.ti,ab.
		8	(((postop* or post op* or preop*) and pre op*) or periop* or peri op*).ti,ab.
		9	perioperative medicine/ or perioperative period/
		10	surgery/
		11	6 or 7 or 8 or 9 or 10
		12	sustainab*.ti,ab.
		13	environment* impact*.ti,ab.
		14	((waste or resource*) and (minimiz* or reduc*)).ti,ab.
		15	carbon footprint*.ti,ab.
		16	environment/ or environmental impact/
		17	carbon footprint/
		18	12 or 13 or 14 or 15 or 16 or 17
		19	5 and 11 and 18
		20	limit 19 to (english language and "systematic review" and last 5 years)

Table A2: Results of the literature review of indicative questions. NICE = National Institute for Health and Care Excellence; SIGN = Scottish Intercollegiate Guidelines Network; CINAHL = Cumulative Index to Nursing and Allied Health Literature.

	Indicative Question	National Professional Guideline?	Related NICE/SIGN guideline in area?	Sustainability mentioned in NICE/SIGN guideline?	Cochrane / Embase / CINAHL / Medline	Completely Answered	Partially Answered	Unanswered
1	How can care after an operation be optimised to minimise the use of resources and creation of waste whilst providing good care?	No	NG180 - perioperative care	No	 https://dx.doi.org/10.37757/MR2021.V23.N3.9 http://dx.doi.org/10.1016/j.ijso.2020.11.016 http://dx.doi.org/10.1136/bmjopen-2021-050806 http://dx.doi.org/10.1055/s-0040-1708834 http://dx.doi.org/10.1213/ANE.000000000003942 https://dx.doi.org/10.1016/j.jcin.2018.04.042 https://dx.doi.org/10.21614/chirurgia.112.5.546 		х	
2	Which aspects of care before and after an operation can be provided in the community in a more sustainable way?	No	No					Х
3	How can we increase the reuse and recycling of equipment used for rehabilitation in the recovery period after an operation?	No	No					Х
4	Can the supply of medicines after an operation be optimised to minimise waste?	No	No					Х

5	How does living a 'greener' lifestyle affect recovery after an operation?	No	NG70 - Air pollution NG90 – Physical Activity and the Environment PH41 – Walking and Cycling QS183 – Encouraging Physical Activity in the community PH54 – Exercise and referral schemes PH13 – Physical Activity in the Workplace	No			X
6	What are the most sustainable forms of effective infection prevention and control used around the time of an operation (e.g. PPE, drapes, clean air ventilation)?	No	No		 https://dx.doi.org/10.1097/TA.00000000000003073 https://dx.doi.org/10.1017/ice.2020.379 		х
7	What effect does pre-habilitation (e.g., changes in physical activity, lifestyle and diet before an operation) have on the environmental impact of undergoing an operation?	No	No		https://dx.doi.org/10.1513/AnnalsATS.202002-1830C https://dx.doi.org/10.1136/bmjopen-2021-050806 https://dx.doi.org/10.1097/CIN.000000000000000000000000000000000000		х
8	What are the relative environmental impacts of the different elements of care delivered before an operation?	No	No				х

9	How can investigations before an operation be used more efficiently?	No	NG45 – Routine preoperative tests for elective surgery	No	• https://doi.org/10.37757/MR2021.V23.N3.9	Х	
10	Can more efficient use of operating theatres and associated practices reduce the environmental impact of operations?	No	No		 https://doi.org/10.1093/bjs/znab362.049 https://doi.org/10.1016/J.JAMCOLLSURG.2021.07.258 https://doi.org/10.1289/EHP8666 https://doi.org/10.1016/j.amjsurg.2018.07.021 https://dx.doi.org/10.1097/SLA.000000000003951 	х	
11	How can healthcare organisations more sustainably procure (obtain) medicines, equipment and items used during and around the time of an operation?	NHS Supply Chain Strategy - https://www.supplychain.nhs.uk/sustainability/climate- change-energy-and-ghg-emissions/			 https://doi.org/10.1016/S0140-6736(20)31142-9 https://dx.doi.org/10.1017/dmp.2020.283 	х	
12	What drives effective sustainable innovation in manufacturing of equipment and medical supplies used during and around the time of an operation?	NHS Supply Chain Strategy - https://www.supplychain.nhs.uk/sustainability/climate- change-energy-and-ghg-emissions/			 https://dx.doi.org/10.1016/j.scitotenv.2021.151128 https://doi.org/10.1289/EHP8666 https://dx.doi.org/10.1016/j.jcjq.2021.06.010 https://dx.doi.org/10.1136/neurintsurg-2020-SNIS.56 https://dx.doi.org/10.1016/j.ejvs.2017.03.014 	х	

13	What alternative, more sustainable, materials can replace plastic packaging and equipment used during and around the time of an operation?	No	No	 http://dx.doi.org/10.1093/ndt/gfab113.008 http://dx.doi.org/10.1289/EHP8666 http://dx.doi.org/10.1016/j.jamcollsurg.2021.07.258 http://dx.doi.org/10.1016/j.jcjq.2021.06.010 http://dx.doi.org/10.1016/j.amjoto.2020.102719 http://dx.doi.org/10.1136/neurintsurg-2020-SNIS.56 https://dx.doi.org/10.1016/j.amjsurg.2018.07.021 https://dx.doi.org/10.1111/ans.13856 https://dx.doi.org/10.1093/bjs/znab362.049 	X	
14	How can the emission of greenhouse gases and air pollutants associated with an operation be reduced?	No	No	 https://dx.doi.org/10.1289/EHP8666 https://doi.org/10.1016/j.jcjq.2021.06.010 	Х	
15	How and when is it appropriate to discuss the environmental impacts of care during and around the time of an operation with patients?	No	No	• http://dx.doi.org/10.1016/j.resconrec.2019.104560		X
16	How can more sustainable reusable equipment safely be used during and around the time of an operation?	No	No	 https://dx.doi.org/10.1016/j.eururo.2022.01.027 http://dx.doi.org/10.1093/ndt/gfab113.008 http://dx.doi.org/10.1016/j.jamcollsurg.2021.07.258 http://dx.doi.org/10.1136/neurintsurg-2020-SNIS.56 https://dx.doi.org/10.1111/ans.13856 	Х	
17	How can we compare the environmental impacts of reusable and single-use equipment used during and around	No	No	 http://dx.doi.org/10.1289/EHP8666 http://dx.doi.org/10.1016/j.jamcollsurg.2021.07.258 https://dx.doi.org/10.1111/ans.13856 https://doi.org/10.1101/2021.03.10.21253268 	Х	

the time of an							
operation?							
How can	No	No					Х
		110					^
	NO	NO		• http://ax.aoi.org/10.1016/j.jcjq.2021.06.010		Х	
	No	No		 https://doi.org/10.1093/bja/aex098 		Х	
	No	No					Х
different ways of							
	No	No					Х
environmental							
impact of an							
operation be							
weighed against							
	impact of an operation be	healthcare professionals who deliver care during and around the time of an operation be encouraged to adopt sustainable actions in practice? What is the most sustainable way of providing equipment packs for an operation? What is the most sustainable way to sterilise equipment used during an operation? How do we measure and compare the environmental impacts of the different ways of performing the same operation (e.g., keyhole and open surgery)? How should the environmental impact of an operation be	healthcare professionals who deliver care during and around the time of an operation be encouraged to adopt sustainable actions in practice? What is the most sustainable way of providing equipment packs for an operation? What is the most sustainable way to sterilise equipment used during an operation? How do we measure and compare the environmental impacts of the different ways of performing the same operation (e.g., keyhole and open surgery)? How should the environmental impact of an operation be	healthcare professionals who deliver care during and around the time of an operation be encouraged to adopt sustainable actions in practice? What is the most sustainable way of providing equipment packs for an operation? What is the most sustainable way to sterilise equipment used during an operation? How do we measure and compare the environmental impacts of the different ways of performing the same operation (e.g., keyhole and open surgery)? How should the environmental impact of an operation be	healthcare professionals who deliver care during and around the time of an operation be encouraged to adopt sustainable actions in practice? What is the most sustainable way of providing equipment packs for an operation? What is the most sustainable way to sterilise equipment used during an operation? How do we measure and compare the environmental impacts of the different ways of performing the same operation (e.g., keyhole and open surgery)? How should the environmental impact of an operation be	healthcare professionals who deliver care during and around the time of an operation be encouraged to adopt sustainable actions in practice? No	healthcare professionals who deliver care during and around the time of an operation be encouraged to adopt sustainable actions in practice? What is the most sustainable way of providing equipment packs What is the most sustainable way of sequence of an operation? What is the most sustainable way of sequence of an operation? What is the most sustainable way to sterilise equipment used during an operation? No No • https://doi.org/10.1093/bja/aex098. X sustainable way to sterilise equipment used during an operation? No No • https://doi.org/10.1093/bja/aex098. X sustainable way to sterilise of the different ways of performing the same operation (e.g., keyhole and open surgery)? No N

	its clinical					
	outcomes and financial costs?					
23	What is the role of virtual consultations in reducing the environmental impact associated	No	No	• https://dx.doi.org/10.7861/fhj.2020-0080	Х	
	with undergoing an operation?					
24	How can the amount of waste generated during and around the time of an operation be minimised?	Association of Anaesthetists - Anaesthetic waste: safe and sustainable disposal	No	 https://dx.doi.org/10.1016/j.jcjq.2021.06.010 https://dx.doi.org/10.1016/j.eururo.2022.01.027 https://dx.doi.org/10.1016/j.scitotenv.2021.151128 https://dx.doi.org/10.1097/SLA.000000000003951 	Х	
25	Can alternative, more environmentally sustainable methods of disposal be used for waste that is generated during and around the time of an operation?	No	No	• https://dx.doi.org/10.1007/s10163-020-01123-1		Х
26	How much recyclable waste generated during an operation is being appropriately recycled?	No	No	• https://dx.doi.org/10.1186/s13063-017-2034-0		Х
27	How do we minimize the amount of water used for 'scrubbing up'	No	No	• https://dx.doi.org/10.1016/j.wneu.2020.12.137		Х

	(handwashing) for					
	an operation?					
28	What can	No	No	 https://dx.doi.org/10.12968/bjon.2017.26.22.1230 		Х
	healthcare					
	organisations					
	learn from					
	healthcare					
	systems in other					
	countries about					
	sustainable					
	surgical pathways?					
29	How can we	No	No	_ _		Х
	reduce the			https://dx.doi.org/10.1002/14651858.CD013441.pub2		
	environmental					
	impact of nitrous					
	oxide used in					
	healthcare?					
30	How do we define	No	No	•		Х
	and avoid low-	110	110	https://dx.doi.org/http://dx.doi.org/10.1136/bmj.k5120		^
	benefit or			neeps.// axidonorg/neep.// axidonorg/ 10.1150/ binjiko120		
	unnecessary					
	operations?					
31	What is the	No	No			Х
01	environmental	110				^
	impact of different					
	anaesthetic					
	techniques (e.g.,					
	different types of					
	general, regional					
	and local					
	anaesthesia) used					
	for the same					
	operation?					
32	What are the	No	No			Х
1 -	barriers to using		_			
	more sustainable					
	anaesthetic					
	practices?					
33	What role does re-	No	No			Х
	cycling inhaled	110	""			^
	anaesthetics have					
	in reducing the					
L	in reducing the	1				

			ī				
	environmental						
	impact of inhaled						
	anaesthesia?						
34	What is the	No	NG180 - perioperative	No			Х
	environmental		care				
	impact of different						
	forms of pain						
	relief for an						
	operation?						
35	How do we	No	No				Х
	measure and						
	compare the						
	short- and long-						
	term						
	environmental						
	impacts of surgical						
	and non-surgical						
	treatments for the						
	same condition?						
36	What is the	No	No		https://dx.doi.org/10.1053/j.jfas.2020.08.007	Х	
30	environmental	NO	140		• https://dx.doi.org/10.1097/NUR.0b013e31824590e6	٨	
	impact of using				• https://doi.org/10.1016/j.jcjq.2021.06.010		
	day case surgical				<u>* Inttps://doi.org/10.1010/j.jcjq.2021.00.010</u>		
	pathways						
	compared to						
	inpatient						
	pathways?						
37	What is the role of	No	No				Х
37	community-based	NO	NO				^
	care in reducing						
	the environmental						
	impact of						
38	operations?	No	No				X
38	Is it more	INO	INO				Χ
	environmentally						
	sustainable and						
	safe for patients to						
	have more of their						
	early post-						
	operative care at						
	home compared						
	to hospital?						

39	Harri aan tha	N.a	N			I	V
39	How can the	No	No				Х
	waste of drugs be						
	avoided during						
	and around the						
	time of an						
	operation?						
40	How can drug	No	No		 https://dx.doi.org/10.3390/ijerph19031381 		Х
	syringes be used						
	better to reduce						
	their						
	environmental						
	impact?						
41	What is the most	No	No				Х
	environmentally						
	sustainable way to						
	deliver oxygen in						
	the post-operative						
	period?						
42	What are the most	No	MTG59 – Plus Sutures	No			Х
	environmentally	110	for preventing surgical	140			^
	sustainable and		site infection				
	effective methods		Site infection				
	of surgical wound						
	care (e.g.,						
	dressings, wound						
42	cleaning)?	N	Ne		https://do.dei.org/10.4103/immes.INAAC 130.30	V	
43	What are the	No	No		• https://dx.doi.org/10.4103/jmas.JMAS 130 20	Х	
	sustainable and						
	effective				https://dx.doi.org/10.1002/14651858.CD009569.pub3.		
	alternatives to				• https://doi.org/10.1289/EHP8666.		
	carbon dioxide						
	used in						
	laparoscopic						
	(keyhole surgery						
	of the abdomen)						
	surgery?						
44	What is the most	No	NG180 - Perioperative	No			Х
	environmentally		care				
	sustainable way to						
	provide nutrition						
	for patients						
						•	

	undergoing operations?						
45	What is the most environmentally sustainable method of providing written information to patients?	No	No				Х
46	What are the best ways to educate healthcare professionals who provide care before, during and after operations, about sustainable healthcare?	No	PH6 – Behavioural Change – general approaches	No		х	
47	What are the best ways to educate patients, and their carers, about sustainable healthcare before an operation?	No	PH6 – Behavioural Change – general approaches	No		х	
48	What is the most sustainable way for healthcare professionals to store and (appropriately) share clinical information?	No	NG94 - Emergency and acute medical care in over 16s: service delivery and organisation	No	• https://dx.doi.org/10.1016/j.jdent.2021.103737		Х
49	How can energy usage within an operating theatre be safely reduced?	No	No		 https://dx.doi.org/10.1016/j.amjsurg.2018.07.021 https://doi.org/10.1016/j.accpm.2021.100907 https://doi.org/10.1016/j.jcjq.2021.06.010 	Х	

50	What is the most environmentally sustainable way to maintain a patient's body temperature during an operation?	No	CG65 – Hypothermia, prevention and management in adults undergoing surgery 2016 Medical Technologies guidance 31 – Humiguard	No		х	
51	Can equipment be recycled or repaired, instead of being disposed of, to reduce its environmental impact?	No	No		 https://doi.org/10.1289/EHP8666. https://doi.org/10.1016/j.jcjq.2021.06.010 https://dx.doi.org/10.1097/SLA.000000000002712 	Х	
52	How can care packages which aim to enable rapid recovery from surgery (e.g., ERAS) affect the environmental impact of an operation?	No	NG180 - perioperative care	No	• https://dx.doi.org/10.1097/SLA.0000000000003878	Х	
53	How can waste from medical gas cylinders be reduced?	No	No				Х
54	What effect do standards, guidelines and quality improvement initiatives have on the environmental impact of operations?	No	No		 https://doi.org/10.1016/j.eururo.2022.01.027 https://dx.doi.org/10.1097/SLA.0000000000002712 https://doi.org/10.1289/EHP8666. https://dx.doi.org/10.1097/SLA.0000000000003951 	Х	
55	What is the most sustainable method to launder clothing worn when delivering	No	No				Х

	care around an					
	operation?					
56	How do we measure the carbon footprint of an operation?	No	No	• https://dx.doi.org/10.1097/SLA.0000000000003951	Х	
57	How can the different types of environmental impacts (e.g., global warming, waste, resource utilisation) associated with care during and around the time of an operation be prioritised and balanced against one another?	No	No			х
58	What is the most sustainable way to provide lighting in the operating theatre?	No	No			х
59	How can environmental sustainability be incorporated into the organisational management of operating theatres?	No	No			Х
60	How can the provision and administration of medicines to patients undergoing operations be made more	No	No			X

environmentally				
sustainable?				