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Y(MBChB)University of KwaZulu NatalMedical Practitioner (MBChB)Assoc. Professor (MBChB)University of KwaZulu NatalMedical Practitioner (MBChB)Lecturer (Professor (MBChB)University of KwaZulu NatalMedical Practitioner (MBChB)Professor (MBChB)	University of KwaZulu Natal		Assoc Professor
University of KwaZulu NatalMedical Practitioner (MBChB)Assoc. ProfessorUniversity of KwaZulu NatalMedical Practitioner (MBChB)LecturerUniversity of KwaZulu NatalMedical Practitioner (MBChB)Professor (MBChB)			ASSUC. F10105501
(MBChB)University of KwaZulu NatalMedical Practitioner (MBChB)Lecturer Lecturer (MBChB)University of KwaZulu Natal (MBChB)Medical Practitioner (MBChB)Professor	University of KwaZulu Natal		Assoc Professor
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(MBChB) University of KwaZulu Natal Medical Practitioner Professor (MBChB)	University of KwaZulu Natal		Lecturer
University of KwaZulu Natal Medical Practitioner Professor (MBChB)			
(MBChB)	University of KwaZulu Natal		Professor
	,		
The shire of the second s	University of Limpopo	Nursing Professional	Senior Lecturer

Supplementary Table 1. Respondents by Faculty, Discipline and Academic Title (n=41)

University of Pretoria	Dentistry	Assoc. Professor
University of Pretoria	Environmental Health	Senior Lecturer
	Practitioner	
University of Pretoria	Epidemiologist	Assoc. Professor
University of Pretoria	Medical Practitioner	Professor
	(MBChB)	
University of Pretoria	Medical Practitioner	Senior Lecturer
	(MBChB)	
University of Pretoria	Occupational Therapist	Lecturer
University of Pretoria	Physiotherapist	Assoc. Professor
University of South Africa	Nursing Professional	Professor
University of the Western Cape	Pharmacy	Senior Lecturer
University of the Western Cape	Physiotherapist	Assoc. Professor
University of the Witwatersrand	Dentistry	Senior Lecturer
University of the Witwatersrand	Rural Health	Lecturer
University of Zululand	Nursing Professional	Assoc. Professor

Faculty	Departme nt / Division/ School	U	Topics or Themes	Programm es offering the course	Years of study	Learnin g OUTC OMES		Learning Activities
Durban University of Technology	Communi ty Health Studies	Bachelor of Health Science: Environmental Health	Don't know	Environme ntal Health Practitioner	Year 1, Year 2, Year 3, Year 4	Yes	Yes	Writing assignments on SH topics. Oral presentations on SH topics.
Nelson Mandela University	Environm ental Health	Sustainable development	Don't know	Environme ntal Health Practitioner	Year 1	No	Yes	Writing assignments on SH topics. Oral presentations on SH topics.
Stellenbosc h University	Physiother apy and Global Health	Becoming a Healthcare Professional	Action for Health, Global health	Dietetics & Nutrition, Physiothera py Nursing	Year 1, Year 2, Year 3, Year 4, POST- GRAD UATE	Yes	Yes	Role-plays /real patients: take a history of environmental risk exposure; advise about environmental & health co-benefits of lifestyle choices. Oral presentations on SH topics.

Supplementary Table 2. Learning Activities Related to Planetary Health and Sustainable Healthcare by Faculty (*n*=18 courses)

Stellenbos h Universi	1	Planetary Health	Environ mental stewards hip	Medical Practitioner (MBChB), COPC	Year 1, Year 2, Year 3, POST- GRAD UATE	Yes	Yes	Role-plays /real patients: take a history of environmental risk exposure; advise about environmental & health co-benefits of lifestyle choices. Writing assignments on SH topics. Community-based research about key environmental determinants of health. Concept mapping the relationships between the environment, disease, & healthcare. Debating ecological justice / eco-ethics / eco-advocacy by health professionals. Reflections on personal / professional eco-ethical challenges.
Tshwane University of Technolog	nt	Nursing Science	Don't know	Dental Practitioner , Environme ntal Health Practitioner , Medical Technologis t, Radiograph y	Year 1, Year 2, POST- GRAD UATE	Yes	Yes	Don't know
University of Cape Town	Pathology	Integrated Health Systems	Climate Change and Health	Medical Practitioner (MBChB)	Year 3	Yes	Yes	Don't know

University of Cape Town	School of Public Health & Family Medicine	Health in Context	Climate change, Environ mental Health	Medical Practitioner (MBChB)	Year 4	Yes	Yes	Role-plays /real patients: take a history of environmental risk exposure; advise about environmental & health co-benefits of lifestyle choices. Community-based research about key environmental determinants of health. Designing a public health strategy to address environmental health impacts.
University of Cape Town	School of Public Health & Family Medicine	Masters in Public Health	Climate change, Pollutio n, and Health	Multidiscipl inary programme	POST- GRAD UATE	Yes	Yes	Writing assignments on SH topics. Interviews with environmental health stakeholders. Class presentations of topical climate and health media stories.
University of Free State	Communi ty Health	M.Med. (Community Health)	Don't know	Medical Practitioner (MBChB)	POST- GRAD UATE	Yes	Yes	Role-plays /real patients: take a history of environmental risk exposure; advise about environmental & health co-benefits of lifestyle choices. Writing assignments on SH topics. Oral presentations on SH topics. Community-based research about key environmental determinants of health. Designing a public health strategy to address environmental health impacts. Concept mapping the relationships between the environment, disease, & healthcare.
University of KwaZulu Natal	Public Health Medicine	Masters in Public Health	Climate Change and Public Health	Multidiscipl inary programme	POST- GRAD UATE	Don't know	Yes	Oral presentations on SH topics.

University of KwaZulu Natal	Occupatio nal and Environm ental Health	Postgraduate Diploma in Occupational Health	Environ mental Health	Multidiscipl inary programme	POST- GRAD UATE	Yes	Yes	Oral presentations on SH topics. Debating ecological justice / eco-ethics / eco-advocacy by health professionals.
University of KwaZulu Natal	Occupatio nal and Environm ental Health	Becoming a Professional	Climate Change and Public Health	Medical Practitioner (MBChB)	Year 1	Yes	Yes	Oral presentations on SH topics. Community- based research about key environmental determinants of health.
University of Pretoria	Physiother apy	Integrated Health Leadership	Environ mental Sustaina bility in Health Care	Physiothera Py	Year 4	Don't know	Don't know	Don't know
University of Pretoria	School of Health Systems and Public Health	Social Determinants of Health	Environ mental Determi nants of Health	Masters of Public Health	POST- GRAD UATE	Yes	Yes	Community-based research about key environmental determinants of health.
University of Pretoria	School of Health Systems and Public Health	Basis of Environmental Health	Don't know	Masters of Public Health	POST- GRAD UATE	Yes	Yes	Writing assignments on SH topics. Oral presentations on SH topics.
University of South Africa	Health Studies	Health and the Environment	Health and the environ ment	Health studies, Environme ntal sciences and open to	Year 1	Yes	Yes	Don't know

other disciplines

University of the Western Cape	Interprofe ssional Education Unit	Health, Development and Primary Health care, Interdisciplinar y Health promotion	Determi nants of Health, Develop ment, Engagin g Commu nities/C ommuni ty Profile	Dentistry, Oral Health, Dietetics and Nutrition, Occupation al Therapy, Physiothera py, Nursing, Social Work, Sport Recreation and Exercise Science, Natural Medicine	Year 1, Year 2,	Yes	Yes	Community Profile assignment which includes environmental determinants of health. Project implementation in primary schools including environmental determinants of health.
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University of the Witwatersra nd	Family Medicine and Primary Care	Masters in Rural Health	Rural Health Context, Quality improve ment, Commu nity Orientat ed PHC, Burden of Disease, Develop ing appropr iate services	Masters in Public Health	POST- GRAD UATE Year 1, Year 2, Year 3	Yes	Yes	Role-plays /real patients: take a history of environmental risk exposure; advise about environmental & health co-benefits of lifestyle choices; advise about 'eco-friendly' treatment options. Oral presentations on SH topics. Community-based research about key environmental determinants of health. Designing a public health strategy to address environmental health impacts. Concept mapping the relationships between the environment, disease, & healthcare. Debating ecological justice / eco-ethics / eco-advocacy by health professionals. Reflections on personal / professional eco-ethical challenges. Quality improvement projects. Research projects
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Supplementary Table 3. Assessments related to Planetary Health and Sustainable Healthcare by Faculty (*n*=9 courses)

Faculty	Depart	Cours	Debat	Conce	Discu	Indivi	MCQ	Oral	OSCE	OSCE	Envir	Peer	Projec	Resea	Role	Writt
	ment / Divisio	e	es with a		ssion about	dual essay /	-	prese ntatio		advice	o. histor		t super	rch report	plays	en assign
	n/		rubric	ing	eco-	reflect	on	ns		to	у	on	visor	/prese		ments
	School				ethica	ions	core	with a	ntal	patien	taking	oral	assess	ntatio		with a
					l care		topics	rubric	histor	ts	& SH	prese	ment	n		rubric
									у		advice	ntatio	report			
									taking			ns	S			

ch	ellenbos 1 niversity	Family Medici ne and Primar y Care	Planet ary Health		F	S	F	F	F	DK	DK	F	S	DK	S	F	N
	shwane	Nursin	Nursi	F, S	DK	F, S	F	DK	F	S	DK	DK	F	S	S	F	S
of	niversity echnolog	g Depart ment	ng Scienc e														
U	niversity	School	Health	Ν	Ν	F	F	S	F	Ν	Ν	F	Ν	•	Ν	F	Ν
	Cape own	of Public Health & Family Medici ne	in Conte xt											e			
of	niversity Cape own	School of Public Health & Family Medici ne	Maste rs in Public Health	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	Ν	S
of	niversity Free ate	Depart ment of Comm unity Health	MME D (Com munit y Health	S	S	Ν	F	F	F	Ν	Ν	Ν	S	F	F	Ν	F

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)														
University of KwaZulu Natal	Public Health Medici ne	Becom ing a Profes sional	Ν	N	Ν	S	S	S	Ν	Ν	Ν	N	N	N	Ν	Ν
University of Pretoria	School of Health Systems and Public Health	Basis of Enviro nment al Health	Ν	Ν	Ν	F	S	F	Ν	Ν	Ν	Ν	Ν	Ν	Ν	F
University of the Western Cape	Interpr ofessio nal Educati on Unit	-	Ν	F	F	F	Ν	F	Ν	Ν	Ν	F	F	F	F	F

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University of Witwaters rand	School of Public Health & Family Medici ne	Health in Conte xt		Ν	Ν	F	S	F	Ν	Ν	Ν	S	S	S	Ν	F, S
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F= Formative; S = Summative; N = None; DK = Don't know

Supplementary File. Survey questionnaire

National Audit of Education for Sustainable Healthcare 2021

Dear Participant

Thank you for your interest in this national curriculum audit of Education for Sustainable Healthcare (ESH).

Your participation will contribute to a better understanding of the status of ESH in all faculties of health sciences in South Africa, so as to better prepare health professional graduates as leaders of change for sustainable healthcare.

The 2020 AMEE Consensus Statement has defined ESH as educating health science students and health workers about the interdependence of human health, climate change, and planetary ecosystems; and how to mitigate environmental impacts of healthcare by making health systems more environmentally sustainable [Shaw, Walpole et al. 2020]

The following LEARNING OUTCOMES for ESH have been adopted in the Consensus Statement and apply to this audit:

1. Describe how the environment and human health interact at different levels.

2. Demonstrate the knowledge and capabilities needed to improve the environmental sustainability of health systems, using systems thinking

3. Discuss how the duty of health professionals to protect and promote health is impacted by the interdependence of health and ecosystems, and the implications for their personal and professional lives

This audit therefore seeks data on courses offered by your faculty that are designed to achieve these broad Learning Outcomes.

The questionnaire is divided into the following Sections:

- SECTION 1 & 2: Personal Information about yourself
- SECTION 3: Characteristics of the course with content about Sustainable Healthcare
- SECTION 4: Information about Assessments of Sustainable Healthcare content in the course

• SECTION 5: Information for follow-up on your interest in ESH

NOTES:

Sections 3 & 4 require a separate response for each eligible course. However, you may opt out in Q 5.1 from submitting responses for multiple eligible courses if you are unwilling or unable to.

Q5.2 requests that you email me the 2021 Faculty course prospectus / yearbook, or document/s describing the relevant course characteristics to facilitate any further data extraction and validation. Your agreement would be much appreciated.

The questionnaire may therefore take between 5 and 15 minutes to complete, depending on the data "density" of your response or multiple responses. To make data entry quicker, most questions are multiple choice/ checklists, and sections may be easily skipped if not applicable.

INFORMED CONSENT:

• Your participation is entirely voluntary, and you may withdraw at any time without any consequences.

• There are no anticipated risks, and no remuneration nor direct benefits, from participating.

• Your identity will not be disclosed to others, except to any fellow participants at your faculty.

• Personal identifying information is collected for analysis of course data by pre-defined demographic sub-groups. These data will be de-identified in the analyses in accordance with the POPIA Industry Code of Conduct for Research at Public Universities (https://www.usaf.ac.za/wp-content/uploads/2020/09/USAf-POPIA-Guideline_Final-version_1-September-2020.pdf)

• All participants are offered co-authorship on a journal paper about this audit, and membership of the ESH Special Interest Group of SAAHE. Please indicate acceptance in your survey response to Q5.3 & Q5.5

This study has been approved by the University of Cape Town Faculty of Health Sciences Human Research Ethics Committee (HREC 358_2021). Please contact Professor Marc Blockman, Chair of the HREC (marc.blockman@uct.ac.za) with any queries about your rights as a research participant.

Thank you

JAMES IRLAM

James.Irlam@uct.ac.za

PhD researcher & Senior Lecturer: UCT Division of Environmental Health & PHC Directorate Convener: Education for Sustainable Healthcare (ESH), Southern African Association of Health Educationalists (SAAHE) (saahe.org.za/education-for-sustainable-healthcare/) TWITTER @Esh_Southafrica

Section 1 of 5

INFORMED CONSENT: I hereby acknowledge and understand the conditions for participating in the research study. I have had the opportunity to ask questions and have had these questions answered. I understand that my participation is voluntary and that I am free to withdraw at any stage without consequence. I agree to have my response data used anonymously for purposes of the study.

1.1 What is your name?

- 1.2 Have you submitted a response previously?
 - Yes skip Personal Information and go to Section 3
 - No please continue below

Section 2 of 5

2. Personal Information

These data will be de-identified in the analyses in accordance with the POPIA Industry Code of Conduct for Research at Public Universities

2.1 At which health sciences faculty are you employed?

1. Cape Peninsula University of Technology

- 2.Central University of Technology
- 3. Durban University of Technology

4. Mangosuthu University of Technology 5.Nelson Mandela University 6.Northwest University 7.Rhodes University 8.Sefako Makgatho University 9.Stellenbosch University 10.Tshwane University of Technology 11. University of Cape Town 12. University of Fort Hare 13.University of Free State 14.University of Johannesburg 15.University of KwaZulu Natal 16.University of Limpopo 17. University of Pretoria 18. University of South Africa 19. University of the Western Cape 20. University of the Witwatersrand 21. University of Venda 22. University of Zululand 23.Vaal University of Technology 24. Walter Sisulu University 2.2 What is your disciplinary background (as registered with the HPCSA or SANC)? 1.Audiologist / Hearing Therapist 2. Clinical Associate 3. Clinical Technologist 4.Dental Practitioner 5.Dietician **6.**Emergency Care Practitioner 7. Environmental Health Practitioner 8.Medical Practitioner (MBChB) 9.Medical Technologist **10.Nursing Professional** 11.Nutritionist 12.Occupational Therapist 13.Optometrist 14.Physiotherapist 15.Psychologist 16.Radiographer 17.Speech & Language Therapist 18.OTHER - please specify below 2.2.1 Please specify any OTHER personal Disciplinary Background 2.3 What is your job title? 1.Professor 2.Assoc. Professor 3.Senior Lecturer 4.Lecturer 5.Asst. Lecturer 6.Research scientist

7.OTHER - please specify below

2.3.1 Please specify any OTHER Job Title

2.4 How does your job relate to environmental health or sustainable healthcare?

2.5 How many courses are you aware of that contain content about sustainable healthcare? (i.e. the interdependence of human health, climate change, and planetary ecosystems; and making health systems more environmentally sustainable)

None - skip to Section 5

More than 5

Section 3 of 5

3. Characteristics of each course with Sustainable Healthcare content

Please complete this section for each course that contains content about Sustainable Healthcare (i.e. the interdependence of human health, climate change, and planetary ecosystems; and making health systems more environmentally sustainable). If you are uncertain whether a particular course is eligible, please rather include it.

3.1 Name of Department offering course

3.2 Name of Course.

3.3 Course Code (enter XX if you don't know)

3.4 Name of Content Topic or Theme (enter XX if you don't know, or NA if not applicable)

3.5 Which Programmes (as registered with HPCSA) offer the course? [Select all that apply]

Audiology / Hearing Therapy

Clinical Associate Clinical Technologist

Dental Practitioner

Dietetics and Nutrition

Emergency Care

Environmental Health Practitioner

Medical Practitioner (MBChB)

Medical Technologist

Occupational Therapy

Optometry

Physiotherapy

Psychology

Radiography

Speech & Language Therapy

Other...

3.6 In which year/s of study is the course offered? [Select all that apply]

- Year 1
- Year 2
- Year 3
- Year 4
- Year 5
- Year 6

POST- GRADUATE

DON'T KNOW

Please consult the available course prospectus / course outline, or similar document, for the course learning outcomes, learning objectives, learning activities, and details of formative & summative assessments as requested below. Please email these document/s to me if possible (James.Irlam@uct.ac.za)

3.7 Are the course learning OUTCOMES described? (i.e. the specific questions that the convener wants the course to raise)

Yes

No

Don't know

3.8 Are the course learning OBJECTIVES described? (i.e. the specific, measurable knowledge & skills that the student will gain)

Yes

No

Don't know

Course LEARNING ACTIVITIES related to SUSTAINABLE HEALTHCARE (SH) content. Please consult the available course prospectus / course outline, or similar document.

3.9 Does the course have any of the following LEARNING ACTIVITIES related to SUSTAINABLE HEALTHCARE (SH)? [Select all activities that apply]

3.9.1. Role-plays /real patients: take a history of environmental risk exposure.

3.9.2. Role-plays /real patients: advise about environmental & health co-benefits of lifestyle choices.

3.9.3. Role-plays /real patients: advise about "eco-friendly" treatment options.

3.9.4. Writing assignments on sustainable healthcare topics

3.9.5. Oral presentations on sustainable healthcare topics

3.9.6. Community-based research about key environmental determinants of health

3.9.7. Minimising unnecessary and high environmental impact diagnostic tests & interventions

3.9.8. Designing a public health strategy to address environmental health impacts.

3.9.9. Concept mapping the relationships between the environment, disease, & healthcare

3.9.10. Debating ecological justice / eco-ethics / eco-advocacy by health professionals

3.9.11. Reflections on personal / professional eco-ethical challenges

3.9.12. OTHER - please specify below.

3.9.13 DON'T KNOW

3.9.14 NONE

3.9.12.1 Please specify any OTHER Learning Activities related to the SUSTAINABLE HEALTHCARE (SH) content of the course.

3.10 Does the course include any Formative or Summative assessment of the SUSTAINABLE HEALTHCARE (SH) content only?

Yes - continue below.

No - skip to Section 5

Don't know - skip to Section 5

Section 4 of 5

4. Assessments of Sustainable Healthcare content in each course

Please complete this section for each course that contains content about Sustainable Healthcare (i.e. the interdependence of human health, climate change, and planetary

ecosystems; and making health systems more environmentally sustainable), and in which that content is assessed.

4.1 Select ALL forms of Formative and/ or Summative assessment of the Sustainable Healthcare (SH) content ONLY [Select at least one response per row]

	FORMATIVE	SUMMATIVE	Don't	know	None
4.1.1. Assessments of					
debates with a rubric					
4.1.2. Assessments of					
concept mapping exercise					
4.1.3. Group discussion					
about eco-ethics in clinical					
care					
4.1.4. Individual essay /					
reflections on learning					
4.1.5. MCQs or SAQs on					
core topics					
4.1.6. Oral presentations					
with a rubric					
4.1.7. OSCE station:					
environmental history					
taking					
4.1.8. OSCE station: SH					
advice to patients					
4.1.9. Patient consults that					
include enviro. history					
taking & SH advice					
4.1.10. Peer feedback on					
oral presentations					
4.1.11. Project supervisor					
assessment reports					
4.1.12. Research report /					
presentation / journal					
article					
4.1.13. Role plays					
4.1.14. Written assignments					
with a rubric					
4.1.15. OTHER - please					
specify below					

4.1.15.1 Please specify any OTHER Assessments of the SUSTAINABLE HEALTHCARE (SH) content of the course.

Section 5 of 5

5. Information for follow-up

This information will be used for follow up if you wish to be involved in further work on ESH in South African health science faculties

5.1 If there are additional eligible courses with content about Sustainable Healthcare, are you willing to submit another response about it?

There are NO additional eligible courses.

There are additional eligible courses, but I do NOT want to submit another response.

Yes, there are additional eligible courses & I will submit another response.

5.2 Can you email me the 2021 Faculty course prospectus / yearbook, or document/s describing the relevant course characteristics? (James.Irlam@uct.ac.za)

Yes No

Other...

5.3 Would you like to be a contributing author on an academic paper about this audit?

Yes

No

Maybe

5.4 Can you suggest any other participants in this audit? If YES, please list their names, job titles, and email addresses.

5.5 Would you like to be added to the membership list of the ESH Special Interest Group of SAAHE (saahe.org.za/education-for-sustainable-healthcare/)?

Yes No Maybe

5.5 Do you have any further comments or queries?

THANK YOU FOR YOUR RESPONSE Networks used for dissemination of th