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CENTRE FOR
EXCELLENCE
IN EDUCATION



ANNUAL REPORT 2023

Centre for
Sustainable Healthcare in Education (SHE)



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1. Results compared to the application and centre plan

1.1 Connecting our vision and our work.

SHE's vision is to educate globally anchored health professionals who make sustainable healthcare decisions without compromising future and global needs.

To achieve this vision, SHE will educate healthcare professionals to become sustainability change-agents by providing them with competencies to navigate and balance between 1) research evidence, 2) individual concerns and 3) global principles and resources. Our educational approach is designed in line with the UNESCO framework for education for sustainable development (ESD). Based on this framework, SHE fosters systems thinking, future-oriented thinking, normative thinking, critical thinking, collaboration skills, strategic competency, self-awareness competency, and integrated problem-solving competency among students through all its educational activities. We believe that SHE has a responsibility to contribute to the global push for a sustainable future and are committed to both changing the health education in Norway and to influence and inspire academics, educators, and decision makers internationally.

Our focus areas for 2023 have been on further developing and refining as well as implementing many of our offers that we had in 2022. Furthermore, we have in this period, focused on the development of courses and programmes; the development of resources for education; research for education; institutional development; student involvement and capacity building; and faculty development and mobility. We have also launched several of our new courses which we worked on developing in 2022.

Within these focus areas we draw on the wide range of thematic areas pertinent for sustainability and health that SHE-affiliated researchers work on. We have continued to develop educational tools and approaches that bring forth and empower change agents with the competence to address a wide variety of sustainability challenges in the future.

1.2 Key accomplishments and activities of 2023

Courses and programs

In 2023, we have taken great strides in both developing new theoretical work as well as developing new educational courses, building strong institutional synergies with other partners both nationally and internationally and most important of all, implementing and indeed offering programmes and courses to students across a broad range of disciplines and across BA and MA levels. We are proud to note that our courses consistently receive outstanding evaluations from students, particularly in how they encourage critical reflection and actively engage students in the teaching process. Our Circle U summer school was extremely competitive, with over 195 applicants vying for just 54 places, and our three elective courses has proven popular among MA programme students, medicine students and health workers admitted to the course. These positive feedbacks are encouraging as they tell us both that the field of sustainability and health is one that draws the interest of the students, and that our educational approach manages to engage the students in critical reflections.



Students at the course Climate Change and Health. Photo: Hanne Bjerknes/UiO

We plan to continue expanding and scaling up our course offerings, enhancing opportunities for student-led teaching activities and further engaging students in the development and delivery of our courses.

In 2023 we also developed and implemented our Honours Certificate in Education for Sustainable Healthcare, a certificate created by a cross disciplinary team of researchers and educators, and which draws upon the pedagogical and thematic tenets of sustainable health education and the UNESCO framework of education for sustainable development. The certificate is one of five flagship honours certificates at the University of Oslo. In 2023 we developed the groundwork for the certificate, the thematic and theoretical as well as pedagogical base for the certificate as well as setting up the administrative support needed for the certificate. After a promotion phase in 2023, we accepted a total of 25 MA students who were enrolled formally to the certificate. The certificate started up in January 2024.

In 2023, SHE ran or contributed to running 9 courses at BA and MA level. In addition, we developed the honours certificate which consists of 3 courses (one 10 ECTS, and two 5 ECTS). We also started



the development of an ERASMUS+ program named 'Debating Democracy' which will be another honours certificate starting August 2024. A full list of courses can be found in appendix 2. We wish to highlight a couple of these courses here.

In an innovative move, SHE in 2023 finalized the development of a flagship honours certificate on sustainable health. As in 2022, the main idea was to move away from establishing a new MA programme in favour of a more flexible programme format which was favourably received by international experts conducting the institutional visit in the spring of 2022. They particularly emphasized how "the micro-credentials have the potential to open up for life-long learning activities for professionals in the healthcare system." We have now developed the certificate as well as setting up all the necessary administrative support to tackle student admission and the running of the certificate day-to-day. The certificate has been well received and we ended up with 25 MA students who accepted the offer to start in January of 2024. The new honours certificate provides students with an understanding of the pedagogical principles and tools needed to build capabilities for tackling the challenges to sustainable health and healthcare and include several elective courses offered to students across different disciplines. In an innovative move, the certificate is open to all students at UiO and the final pool of students in this first year of the honours certificate included students from disciplines such as nursing, public health, epidemiology, pedagogy, pharmacology, as well as interdisciplinary health sciences and technology, innovation, and knowledge studies. This shows a broad interest in the concept of sustainable health and shows that this offer goes beyond the healthcare sector itself. Even though several of the students have a BA in nursing, a few of the students had work experience elsewhere and several noted that the honours certificate filled a gap in the existing offers at UiO in terms of offers on topics on sustainability.

To amplify the impact of this programme, we have also started developing parallel teaching modules targeted at academic staff across all faculties of UiO, to be coordinated with LINK - the UiO Teaching and Learning in Higher Education unit. This work challenges us to think critically about how the concept of sustainability can be made relevant for education across disciplines with very different theoretical, methodological and thematic foundations.

We need to consistently work on finding answers to the question of how we can support educators in fields far from our own to make sustainability a relevant and motivating concept for their students.

In 2023 another landmark at UiO took place and that was the launch of the new master's programme in public health and epidemiology at the Institute of Health and Society where SHE is instrumental in providing teaching resources to the program.

This program features two specialization tracks, with SHE being involved in teaching and managing the sustainable health services specialization track. Furthermore, SHE ensures that the UNESCO competencies are integrated into the programme plan for the programme in its entirety. SHE also teaches the mandatory course *Introduction to Sustainability in Public Health* for the programme and runs the course. Students were involved in the design of the course and are also involved in running it. As part of this new programme, we have held for the second time an innovative course entitled *Politics of Sustainability - data-driven critical conceptual analysis*. This course utilized a unique datathon model that encouraged students to engage in critical reflection on sustainability concepts and ideologies. Drawing on the Oslo Medical Corpus, our digital platform for data-driven learning in



health, developed and tested by the SHE team, students had access to a wealth of resources to aid in their learning.

In 2023 the SHE-developed Teams training module was once again launched as a recurring component of the first semester programme of medical and clinical nutrition students at the Faculty of Medicine. This module focuses on collaborative decision making, fostering the students' co-operational skills and their ability to apply critical and analytical thinking to collective problem solving, strongly inspired by the UNESCO key competencies for ESD. It furthermore includes a mentoring scheme that connects the new students to senior level students who mentor ten students each for the full first year of their studies. The mentoring scheme facilitates peer coaching beyond the classroom setting and improves first-semester students' ability to adapt and thrive in the sometimes-challenging role as a new medical student. In addition to the educational components of the scheme itself, the student mentors receive valuable mentoring and leadership training. The module has now been an ongoing module under the SHE-umbrella and provides an important and exciting form of learning which blends ESD principles with mentoring and collaborative learning.

As in previous years, 2023 saw a new group of 10 students from all the four medical faculties in Norway accepted to the Choosing Wisely student leadership programme ("studenter for kloke valg"). This national student-run programme is supported by SHE in collaboration with the Norwegian Medical Association and their Choosing Wisely («Gjør Kloke Valg») Campaign. The programme brings the students into dialogue about real-life sustainability dilemmas in clinical decision making, challenging their normative, systems oriented and future oriented thinking skills as they engage with the full sustainability agenda for health. The programme consists of an educational part and a project assignment that is supervised by a senior researcher. A core priority is to enable the students to become change agents, and many project assignments seek to develop new recommendations for sustainable clinical decision making. SHE engages in critical reflections with the students about what being a change agent means, and how it can be made possible for newly educated actors in the health care sector to engender change. We are particularly concerned with how SHE can support and facilitate the uptake of the students' recommendations by decision makers and practitioners which in line with SHE's student-centred mantra and outlook on teaching and pedagogy.

SHE's course Climate and Health, offered for MD and Master Students at the Faculty of Medicine, has now been running for three years and consistently receives excellent evaluations from the students. A central feature of the course is that it brings in high-level guest contributors from both outside and inside academia, including assistant director of health Espen Nakstad and professor of biology Dag Hessen. In addition, a new course was also offered to top leaders within health service in collaboration with the Master programme in health administration.

The evaluations from the leaders who followed the course were overwhelmingly positive, and many called for such perspectives to become mandatory within health leadership education, a testimony to the need for and indeed demand for the type of educational offers that SHE has.

A hallmark in 2023 for SHE was the partnership with the Partnership for Maternal, Newborn & Child Health (PMNCH) hosted by the WHO. The Partnership for Maternal, Newborn and Child Health (PMNCH) is an alliance of 1,400 member organizations, in 192 countries and is the only global health partnership focusing specifically on women's, children's, and adolescents' health and well-being.



Through this partnership, SHE and PMNCH invited students to explore issues related to adolescents' children's and women's health and wellbeing. The collaboration involved 10 scholarships of 25.000 NOK which were made available to students who applied to the scheme in order to work with supervisors from SHE as well as from the PMNCH's own network. The purpose of the collaboration between SHE and PMNCH is to support and strengthen knowledge and partner capacity in selected countries to advance progress of women's, children's, and adolescents' health within the framework of the Sustainable Development Goals. The collaboration activities will include background research, liaison with selected countries, analysis and mapping exercises related to a sub-set of country commitments. In 2023 we accepted 10 students to the program, each of which received a scholarship of 25,000 NOK.



Student Scholarships 2023. Photo: Hilde O. Vandeskog.

Another important addition to the SHE programs in education is our newly established SHE Lab. The Sustainable Healthcare Education (SHE) Lab aspires to reorient the sustainability discourse in healthcare education from excessive rhetoric to a focus on actual actions and outcomes. The SHE Lab is an innovative segment of our project, blending theoretical understanding with the hands-on



experience required in practical application environments. The SHE Lab revolves around learning-by-doing pedagogy, rooted in the influential school of thought founded by John Dewey and the foundational work of economist Kenneth J. Arrow.

SHE Lab focuses on providing students with opportunities for students to engage with learning-by-doing and we launched the Lab, led by postdoctoral research Million Tesfaya and Professor Eivind Engebretsen, SHE Lab was started in 2023 and enrolled students in the Lab.

Beyond the courses meant for students at the Faculty of Medicine at UiO, SHE has designed and held courses for master and PhD students from all the Universities that make up the Circle U alliance, and for bachelor students at the SMU University in the US. These courses apply new teaching resources such as the datathon model developed for using the Oslo Medical Corpus in teaching, and critically explore power dynamics, human rights issues, and equity as aspects of the health and sustainability field. Developing and running these courses and programmes allows us to reflect on and refine how we can best foster the UNESCO competencies for ESD in practice.

Research and research-based resources

The various research activities at SHE serves two different but complementary purposes:

- 1) To develop educational resources or innovations based on cutting-edge research about sustainability and complexity challenges in healthcare (*research for education*). SHE has published widely about these topics throughout the year 2023 (see complete list in appendix 9).
- 2) To test and evaluate ongoing research activities at SHE (*research on education*).

Research for education

SHE has prioritized research with potential for developing innovative and rich resources for learning and teaching. One illustrative example is the Oslo Medical Corpus (OMC), our digital platform for data-driven learning in health. The OMC is a large database of texts of different genres (policy documents, scientific papers, feature articles, blogs etc.) accompanied by a novel, open-source analysis and visualization interface aimed at exploring and understanding underlying paradoxes and challenges. The corpus and the accompanying software are available open access, ensuring that students and researchers can make use of it regardless of financial resources.

The OMC is developed through an iterative, participatory design methodology resulting in a set of open-source text analysis and visualization tools to be shared with the research community. In 2023 the OMC has become integral in several research and educational initiatives at SHE and has also become integrated in several projects at UiO and within Circle U.

Developing the software and building the corpus is an ongoing, labour-intensive investment in future research and education. However, it is already a useful tool with the following topic areas are prioritised for coverage: Pandemics/Epidemics; Health & Environmental Sustainability; Sexual and Reproductive Health Rights; and Adolescent and Young People's Health.



OMC is designed to feature various discourses, both mainstream and non-mainstream, allowing scholars to conduct studies on official as well as grassroots discourses. It also features both official, mainstream as well as contestatory discourses on sustainability and the sustainable development goals, in which health features prominently.

Free, restricted access to the corpus is available to the research community at large, within the restrictions of copyright law. Specifically, researchers can run different types of searches on the corpora from remote sites and download the results of analysis.

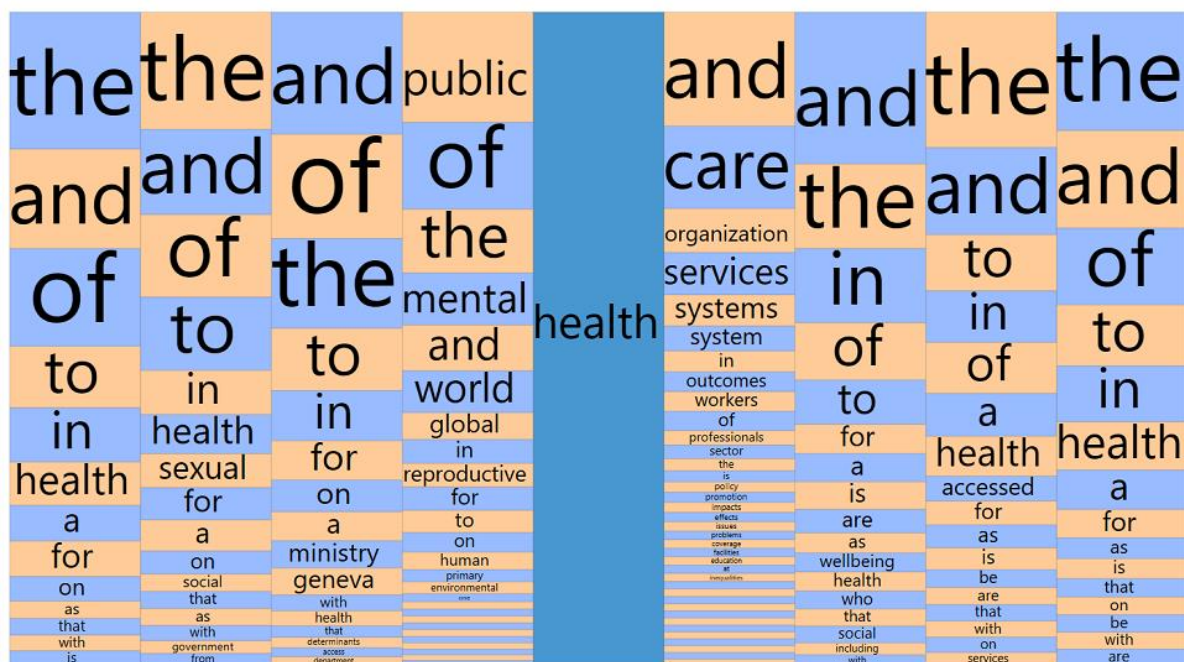


Photo from the Oslo Medical Corpus

To make the Oslo Medical Corpus (OMC) more accessible to students, educators, and researchers beyond UiO, we created a series of online video lectures that provide step-by-step guidance on using the tool. These videos are designed to demonstrate how the OMC can be effectively utilized in educational settings, while also offering inspiration and guidance for using the tool in research projects. We have already received a great deal of interest from colleagues both nationally and internationally (including Universitat Jaume I in Spain) who are eager to integrate this tool into their own teaching and research.

Perhaps the most innovative development of the OMC in 2023 has been the development and launch of the OMC as a cloud-based program allowing users to use the OMC on the fly, accessed only through the internet. This novel and important development ensures that the OMC is more accessible to people in Norway, and globally. This move is also important in terms of education as this means that students can access the OMC without prior software installed on their computers. This makes using the OMC in education and in research much more accessible, which is a key component of scaling up the OMC.



Key members of SHE are also involved in the research group MEDRA (The Medicalisation of Democratic Rights in the Debate about Abortion). The goal of the project is to provide large-scale, corpus-based analyses of the co-constitutive relationship between democracy and medical knowledge in the debate about abortion as it unfolded since the early 1980s in three complementary case studies: US, Ireland and Argentina. Constructing abortion as a scientific issue encourages both sides of the debate to mobilise medical knowledge as the ultimate authority in deciding who has more or less human rights and, by implication, who is more or less human (or, in legal terms, who has personhood). Precisely because medical knowledge is assumed to be 'evidence-based', 'objective' and 'factual', it lends itself readily to being exploited to support opposing and irreconcilable arguments in this debate. SHE's contribution to MEDRA involves conducting research as well as developing educational resources around abortion and abortion as part of medical knowledge and democratic participation. Moreover, MEDRA, through SHE, is synergetic with SHE's collaboration with the Partnership for Maternal, Newborn and Child Health (PMNCH) as well as SHE's contribution to the ERASMUS+ funded Debating Democracy project. As such, SHE's work on sexual and reproductive health has been further strengthened through MEDRA both as a research project and in developing educational resources.

Research on education

SHE runs several research projects with the aim of trialling and evaluating innovative teaching approaches.

First, SHE Researcher, Sietse Wieringa has an ongoing, multi-year research project on Sustainable Healthcare Education for Primary Care explores how the principles of evidence-based medicine must be revised in order to prepare for medical education. Wieringa (together with Carolina Borges Rau Steuernagel and the student Evgenia Taranova) is also responsible for the project: implementation of sustainability in teaching and learning in medicine. Post-doctoral research fellow, Million Tesfaya continues to run a research project on the state of the art for community-based education in health and is in the process of developing a process to pilot a trial of methods especially focusing on experience-based active learning for students. SHE continues to build its Teams based research projects with a PhD-student from the Faculty of Educational Science who is studying the team building program as an example of innovative soft-skills training in medical education. Finally, SHE member, Professor Nina Vøllestad, is running a research project on on complex and normative thinking in case-based reasoning in primary care. This project invited 18 MD students who were doing a GP ("fastlege") practice period to write up cases that they encountered that involved sustainability dilemmas.

The cases were subsequently analysed collectively by the participating students, engaging and improving their skills in normative and complexity thinking. So far, the project has achieved a chronicle in Journal for the Norwegian Medical Association (Appendix 10).



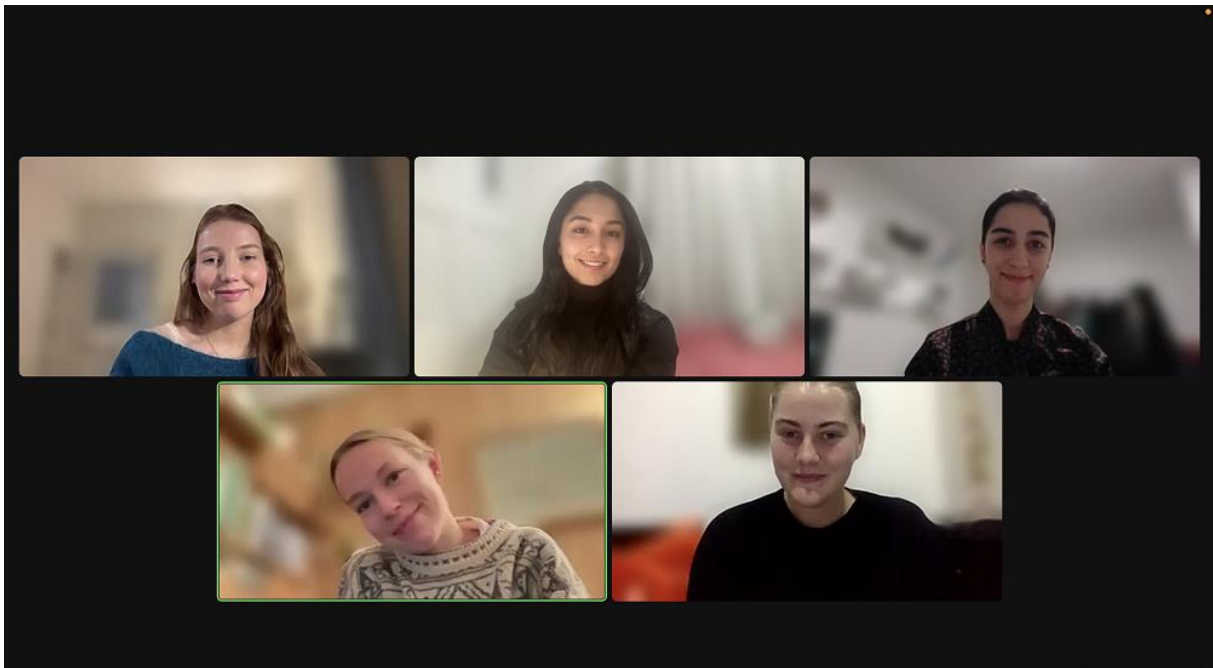
Student involvement and capacity building

A keystone for SHE is student partnership across all of SHE's activities. SHE has always sought to be true to the tenets of student partnership and as such students are involved in the development of educational material, in research, in outreach and networks, and in dissemination. We believe that this broad involvement both enhances the students' learning outcomes and strengthens the quality and relevance of our activities. The SHE Student-Leaders Scheme provides students with an unique opportunity to gain practical experience by contributing to the growth of sustainable healthcare education and research, while also enriching their formal education. Participants are encouraged to engage in all aspects of the centre's operations, including course and program development and management, creation of educational resources and tools, project planning and execution, and sharing project results.

In 2023 our collaboration with the PMNCH was officially launched and students could apply to the programme. The collaboration with PMNCH involves placing one student with one of PMNCH's collaborating organization who provides them with a mentor and involves them in activities. This is fortified and supported by faculty at SHE who also provide supervision and guidance to the students. SHE has also initiated an exchange programme with Circle U., where students are offered secondments in one of the collaborating universities. During their secondment, students will work closely with Circle U Academic Chairs for global health, who are internationally renowned experts in their respective fields, and contribute to ongoing research projects and teaching activities. This experience can help students develop essential skills and knowledge in global health, as well as gain a better understanding of the challenges and opportunities facing healthcare systems around the world. The pilot was launched 2022 with 4 students enrolled, and 2 students in 2023. Circle U. and SHE are also collaborating on Student Fellows, where two students work as partners in SHEs research group MEDRA while they are employed at The Student Administration/Circle U. administration.

Since the beginning, SHE has offered student scholarship that enables students to realize their own research or knowledge dissemination projects. To date, approximately 100 student scholarships have been awarded, 10 of these in 2023. Projects range from public health and sustainability podcasts to case-studies of sustainability dilemmas in primary care and e-learning tools on antibiotic resistance. In 2023, we will adjust our policy for the distribution of student grants. Our previous approach was to initiate various programs and allow a diversity of approaches to develop. However, we have come to the realization that our policy should be adjusted so that scholarship allocation is targeted to meet the specific needs of students and certain selected subject areas.

The events and projects in 2023 showed the importance of including students in decision-making processes and played as a source of inspiration for student engagement initiatives. The enhanced collaboration between the three centres (SHE, Center for Global Health and Pandemic Center), coupled with the recruitment of new students in the following months, are steps towards broadening our outreach and solidifying a student-centric focus, actively shaping the future of SUSTAINIT to the benefit of students.



Students in SHE 2023: Julie Ytre-Eide, Ritika Sharma, Mina Karkhi, Helga M. Wang-Haugseth, Merete Graneng.

Engaging students through social media, particularly on platforms like Instagram and Facebook, is crucial for effective outreach. These platforms provide an effective way to connect with students, sharing information about scholarships, collaborative projects, conferences, events, and available student positions. By attending the “foreningsdag”, the Students of SHE has gotten a live platform to introduce SHE, discuss ongoing projects, and generate immediate interest through personalized interactions. This year at foreningsdagen we promoted Scholarships for collaborative projects with PMNCH, Helse- og bærekraftskonferanse, new student positions at P1H, and SHE’s webpage and social media. As we have been an active part in the SHE initiatives in 2023, it has been exciting to promote and connect with peers, fostering a sense of community and emphasizing that students play a vital role in SHE's initiatives.

Examples of the student led, and student driven initiatives would be the Health and Sustainability Conference, held on 19. Sep at Domus Bibliotheca, attended by 80 individuals, brought together key participants from various backgrounds, including students, researchers and clinicians. This Event was organized and led by Ritika Sharma (SHE student leader), Ragnhild Misje (medical student) and Anna Holmegaard (medical student), Centre for Sustainable Healthcare Education (SHE) in collaboration with the Centre for the Environment and Development (SUM).

This interdisciplinary conference offered a platform for discussing the importance of sustainability in healthcare, with a specific focus on the future of health in Norway and the one health framework. Featured workshops led by students and academics, addressing topics like health and climate-smart choices and integrating One-Health principles into projects and master's theses, created a dynamic environment fostering engagement, collaboration, and an in-depth understanding of the presented material.



Students took a leading role in initiating, organizing, and executing the conference, addressing students' educational needs, while aligning with SHE's commitment to meaningful student engagement. The event was covered by Journal for the Norwegian Medical Association (Appendix 10).

Konferanse
HELSE OG BÆREKRAFT
19. SEPTEMBER 2023
Domus Bibliotheca Oslo

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Healthcare Education

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Oslo SDG Initiative
ved Senter for utvikling og miljø

Another example would be event, *Mental Health and Well-Being for All -Laying the Foundations in Adolescence and Youth*. This event raised awareness about mental health in adolescents and youth. The presentation by Francis Vergunst titled "The impact of climate change on mental health and psychosocial development among children/youth" contributed significantly. The event further explored "Simple, preventive measures everyone can do to protect their mental health and well-being" by POFU. The panel discussion provided a platform for critical discussions on mental health challenges from an adolescent and youth perspective, drawing comparisons with global experiences, particularly in Iran. SHE student representatives provided valuable insights on the essential role of youth leadership as drivers for positive change, emphasizing inclusivity and addressing the needs of those left behind.

Institutional development

At the institutional level one of the most fundamental changes has been the establishment of a broad SDG initiative at the Faculty of Medicine, where SHE has been instrumental in initiating and getting off the ground said initiatives. Sustainability has been explicitly included into the Faculty of Medicine's strategic plans, and the establishment of the new unit, SUSTAINIT showcases the importance of implementing sustainability at the Faculty of Medicine. SUSTAINIT is a unit consisting of SHE, Centre for Global Health, and the newly established Center for Pandemic and One Health Research (P1H). SHE plays an integral role in the SUSTAINIT unit delivering educational components to the unit as well as research. The development and launch of SUSTAINIT as a unit at the faculty of



Medicine has been an important outcome of SHE's work on bringing sustainability perspectives to the Faculty of Medicine. The objectives of the new unit are:

- To advance education and research that fosters critical thinking and expands understanding of sustainability and the significance of SDGs in healthcare.
- To foster collaboration between research, education, and capacity-building initiatives.
- To encourage interdisciplinary dialogue and collaboration.
- To play a leading role and contribute to international collaborations at UiO, including the European University Alliance Circle U, on these topics.

Since its launch, SUSTAINIT has developed a mission statement as well as a vision plan and its first activities are planned to be launched in 2024.

Another key aspect of SHE's institutional development has been the establishment of establishing a national task force on education for sustainable development in health. This task force is comprised of leaders from all four faculties of medicine in Norway, working in close coordination with SHE. Our goal is to leverage this platform to effectively share SHE's insights and research findings and make a significant impact on the medical and health education landscape across the country.



Task force group for implementing sustainable health at Arctic University Tromsø, NTNU, University of Bergen and University of Oslo. Photo: Trine Kleven



One of our key initiatives is to develop teacher training programs on sustainable development, to be implemented at all medical faculties in Norway. By equipping educators with necessary skills and knowledge, we aim to promote a more sustainable and responsible approach to medical education and practice.

In 2023 the first day-long seminar in the task force was held and the task force developed a strategy for further collaboration and work across the four faculties of medicine in Norway on sustainability in medical education.

Faculty development and mobility

SHE actively coordinates initiatives to enhance the expertise and capabilities of the centre's faculty and others, emphasizing educational proficiency and the integration of UNESCO competencies among faculty and students alike. Such events are instrumental in expanding the professional networks and understanding of complexity within the health domain for junior staff and students, also enriching their pedagogical resources for imparting knowledge on systems and complexity theory.

Furthermore, SHE oversees skill enhancement programs for faculty, including specialized postdoctoral courses in self-management, leadership, and mentorship, alongside trainer development workshops featuring diverse methodologies and tools, such as the Oslo Medical Corpus.

Staff mobility is an important tool for skills development among faculty members. In 2023, Director Eivind Engebretsen became the Dean of the Open Campus in Circle U. SHE has both hosted and sent own staff out as visiting researchers, and this has been great learning experiences and opportunities for knowledge sharing. Examples of this has been the appointment of Professor Helena Legido-Quigley from King's College as part of the mobility scheme at SHE. Another example of mobility was SHE researcher Tony Sandset, who in 2023 was awarded the American Scandinavian Foundation's (ASF) Lectureship Fellowship and was a visiting Lecturer at Southern Methodist University (SMU) from January 2023 to May 2023 where he was teaching the course 'Health as a Human Right' which built upon and utilized the UNESCO framework for education and had a strong focus on sustainability.

In addition to the above examples of academic mobility, SHE had several events which enabled staff mobility for SHE faculty and staff. We held a workshop on how to mobilize and use the OMC for the MEDRA project which saw SHE faculty from Edinburgh and Manchester come to Oslo to hold capacity building workshop with the rest of SHE staff. Moreover, with the establishment of SUSTAINIT, we saw several international SHE faculty come to Oslo to be part of the strategic planning of SHE's role in SUSTAINIT. Finally, we had a guest lecture by SHE fellow, Trish Greenhalgh. The lectures were named Evidence based practice and power.

As part of SHE's mobility schemes, SHE has mixed mobility for its staff and international affiliates which involves both physical mobility, hybrid mobility (digital and physical) and fully digital. In this way, SHE in 2023, was able to leverage the power of digital technology to create collaboration and teaching while also being conscious of carbon footprints generated from our activities.



In total the blended mobility which we have had in 2023 has offered us maximum value and impact both for dissemination, teaching, and research collaboration.

As in 2022, our affiliate professor program facilitates collaboration with specialists from partner organizations both within Norway (such as FHI and Helsedirektoratet) and internationally (including the University of Oxford, Imperial College London, Karolinska Institutet, among others). These affiliate professors play a crucial role in the mentoring and instruction of students, as well as in the advancement of educational strategies. This arrangement ensures we remain engaged with significant knowledge-generating entities both inside and outside the academic realm. Our experience has shown that this program significantly boosts interdisciplinary and intersectoral education for both our staff and students.

SHE is involved in Lancet commissions related to our mission. One is NUS-Lancet Pandemic Readiness, Implementation, Monitoring and Evaluation (PRIME) Commission chaired by Helen Clark, Sania Nishtar and Helena Legido-Quigley. Postdoc Million Tesfaye and Prof Eivind Engebretsen participates. The second is UiO-Lancet Commission on Global Governance for Health 2.0 chaired by Ole Petter Ottersen. For the latter initiative, SUSTAINIT/SHE serves as the secretariat for the commission.

1.3 Dissemination and knowledge translation

At SHE, we hold a core conviction in the value of fostering cross-institutional and transdisciplinary partnerships and dialogues, both within our national borders and beyond. Building robust networks is essential for the dissemination of our initiatives and for making a meaningful impact that extends beyond our direct institutional environment, contributing to the continuous enhancement of our research and educational offerings. Our endeavours inherently embrace a multidisciplinary approach: To realize SHE's goal of producing health professionals with a global perspective, who make decisions that ensure sustainable healthcare without jeopardizing the needs of future generations and the wider world, it is imperative that we collaborate with and draw on the knowledge from diverse fields such as medicine and health sciences, social sciences, humanities, and educational theory.

In 2023 we had an increase in dissemination and 2023 saw a marked output of our dissemination activities. To look at an overview of SHE and dissemination, please see Appendix 9, appendix 10, appendix 11.



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Centre for Sustainable Healthcare Education - SUSTAINIT

Per Fugelli Lecture 2023

Possibilities to protect the fragile earth in our time

Tarja Halonen

Former president in Finland and social democrat

Comments and panel debate with students and researchers

Friday December 8, 13:00-15:00

Domus Bibliotheca



2. Further progress

In 2024, our main goal is to roll out and expand the range of educational programs and courses we've developed. A key area of focus is on providing grants for healthcare students to work alongside the World Health Organization, offering them a unique chance to gain hands-on, job-related experience. We are actively engaging in conversations with other medical faculties to investigate the potential of elevating this initiative to a nationwide scholarship program. Our two Honours Certificates will be key in 2024 and ensuring that the first round of the certificate is a success. The Honours Certificates will also be evaluated and quality assessment tools for this evaluation will be made in 2024. A focus area for next year will also be to invest in a project related to educational research tied to the development of healthcare personnel's tolerance for uncertainty. The project has been developed into a national collaborative project between the four medical faculties.

Another key focus in 2024 will be our continual dedication to advancing innovative educational approaches, where we have invested significant resources in creating state-of-the-art programs and courses for our students. Looking ahead, our emphasis will shift towards the education of teachers and trainers. In particular, we are preparing to launch a pilot program in sustainability pedagogy for teachers nationwide in 2024 as well as contributing to the national task force on sustainability in healthcare education.

Since the beginning of SHE our digital learning database The Oslo Medical Corpus (OMC), stands as a distinctive asset we plan to share and apply more broadly. We are looking to partner with universities and university colleges throughout Norway to broaden its application to additional professional categories, including nurses and social workers. Our ultimate goal is to ensure the corpus is available to everyone who could gain from its application. We have taken important steps towards this in 2023 in making the OMC available online without installing any software.



This is a crucial step in ensuring that we in 2024 can deliver the OMC to a much broader audience of teachers, students and researchers.

Considering the governments phasing out of the SFU scheme, SHE has had to reorient our strategies and our vision for the future due to the uncertainties surrounding future financing for SHE which will end summer of 2025. Considering this, SHE has, alongside the other SFUs at UiO and at the University of Bergen started strategic work and dialogue with the Rectorate at the University of Oslo in order to plan how to secure funding beyond the 2025 end date for SHE. As part of this strategic work, SHE has also started engaging with the Dean at the Faculty of Medicine to start preliminary talks regarding how we can continue our educational work at the Faculty of Medicine. Both the strategic work and dialogue with the Rectorate and the Dean is part of SHEs reorientation towards a new fiscal and operational reality. With our flagship Honours Certificates as well as the continual demand for sustainability perspectives integrated into medical education, we will also apply for an extension from HKDir until the end of 2026 in order to keep our status as an SFU. Since we have many offers and programmes running beyond the end of the SFU scheme, we will reorient ourselves so that we can still run and stretch our offers into 2026 as per the new opportunity presented by HKDir for applying for an extension.



3. Appendix

3.1 Appendix 1, Statistics

Year	Courses/Program	Publications	In Media	Events
2023	9	26	10	28
2022	6	10	15	21
2021	2	7	5	13

Comments:

In 2022 during the Covid-19 period the podcast Folkefeber, made by students with scholarships from Center for Sustainable Healthcare Education, was a huge success.

3.2 Appendix 2, Courses and Programs

Course code	Name	ECTS	Institution	Students	Format
<u>FHE4350</u> <u>Part of the new master's in public health</u>	Politics of Sustainability in Public Health - data-driven critical conceptual analysis	5	Faculty of Medicine, UiO	17	Hybrid
<u>ISSV4500</u>	Evidence and Democracy in Times of Crisis	5	Circle U./UiO	54	Hybrid
<u>MED3066</u>	Klimaendringer og helse, din innsats teller	3	Faculty of Medicine, UiO	18	Physical
<u>HADM4701</u>	Helsesektorens respons på klimaendringene: ditt lederskap teller	5	Faculty of Medicine, UiO	8	Physical
<u>SUM4501</u>	Achieving the SDGs: Global Goals and National Interests	5	SUM, UiO	20	Physical



<u>HELSEF4403</u>	Makt og kunnskap i helsetjenesten	5	HELSAM, UiO	25	Physical
<u>FHE4000</u> Part of the new master's in public health	Innføring i folkehelse, epidemiologi og bærekraft	10	Faculty of Medicine, UiO	60	Physical
	Teams-program	3	Medical, nutrition and ontology students first grade	114	Physical
Kloke valg program			Legeforeningen	10	Physical

3.3 Appendix 3, Skills training for students

Type of training	Short description	Number of students	Duration (days)
Simulation	Training in teamwork skills, including simulations, for newly started 1st year students in clinical nutrition. In-person. August.	40	2
Simulation	Training in teamwork skills for newly started 1st year medical students. Hybrid due to covid restrictions. January	120	1
Simulation	Training in teamwork skills for newly started 1st year medical students. In-person. August.	120	2
Other skills training	Choosing wisely student-leadership programme in collaboration with Norsk Legeforening. Runs for 15 months. Programme includes simulations exercises.	10	365



Other skills training	Student-leaders scheme where 4 students are involved as co-leaders of, SHE with specific project responsibilities.	4	365
Other skills training	Advanced students in medicine and clinical nutrition trained to mentor new students as part of the team's module.	28	3
Simulation	Tony Sandset gives project-based training for medical students in corpus-based methodologies.	20	1
Other skills training	Tony Sandset gives text analysis skills training to MD, MA and PhD students at the Faculty of Medicine.	65	1
Other skills training	Kristin Heggen gives workshop about academic career development.	25	1
Other skills training	Master students engaged in Partnership for Maternal, Newborn and Child Health (PMNCH), in World Health Organisation (WHO)	10	3
Other skills training	Prof Nina K. Vøllestad gave a half day lecture on «Kunnskapstranslasjon – et fundament for bærekraftige beslutninger?» for MA-students at Tverrfaglig helseforskning, UiO.	30	1/2
Other skills training	Arunima Mukherjee gives a course for bachelor and master students in Helsam,	27	1



	UiO in global epidemics.		
Other skills training	Arunima Mukherjee gives a course for PhD students at Institute of Informatics, UiO, in selected theoretical topics in information systems development (INF9200)	21	1
Other skills training	Arunima Mukherjee gives a course for PhD students at Institute of Informatics, UiO, in ICT for Development: Building a Better World	40	1
Other skills training	Arunima Mukherjee gives a course for master students at NMBU, in Security, Conflict and Development	38	1
Other skills training	Arunima Mukherjee gives course for master students in India on Hospital Information Systems	45	1
Other skills training	Arunima Mukherjee gives course for PhD students in India on Public Health Informatics	46	1
Other skills training	Arunima Mukherjee gives course for master students in India on Digital Citizenship	41	1

3.4 Appendix 4, Student Scholarships

Purpose of the SHE/PMNCH collaboration

Engaging students to support and strengthen knowledge and partner capacity in selected countries in order to advance progress of women's, children's, and adolescents' health within the framework of the Sustainable Development Goals. The collaboration activities will include background research, liaison with selected countries, analysis and mapping exercises related to a sub-set of country commitments. The scholarship is NOK 25000 x 10.



Deliverables

- ❖ Visit the websites or official platforms of each global initiative spelt out in available operational documents, including dedicated spreadsheets.
- ❖ Look for sections dedicated to commitments, goals, targets, or objectives.
- ❖ Explore reports, progress updates, or annual publications that provide details on indicators, metrics, or measurements used to track progress towards the commitments.
- ❖ Extract relevant indicators or metrics associated with each commitment. These may be explicitly mentioned or implied in the documents reviewed.
- ❖ Note down any additional contextual information, such as target dates, specific actions, or implementation strategies, which may enhance the understanding of each commitment-subtopic mapping.

WHO together with SHE will provide the following support.

- ❖ An introductory briefing on the commitment approach and the work including meetings at The WHO Representation Office, located in Geneva, Switzerland.
- ❖ Meetings at regular intervals with students to assess progress and provide guidance.
- ❖ A technical focal point assigned to each student.
- ❖ Field assessment following an agreed template developed by SHE/UiO.
- ❖ Providing the opportunity to attend key global health events or meetings such as the World Health Assembly.
- ❖ Potentially, providing the opportunity to conduct country visits in support of multistakeholder platform discussions.

Selected students based on application and motivation letters:

Name	Institution	Focus country
Anine Husebye Haug	University of Oslo	Malawi
Antonia Bezoni	University of Oslo	Tanzania
Frida Marie Grieg Skjold	University of Oslo	Sierra Leone
Grace Neema Oduri	University of Oslo	Kenya
Janessa Sochi Aneke	University of Paris Cite	Senegal
Malese Takele	University of Oslo	South Africa
Minji Woo	University of Oslo	Nigeria
Pernille Nicole Treider Starckjohann	University of Oslo	Liberia
Sabiha Hossain	University of Oslo	Bangladesh
Sofie Haugan Shrivastava	University of Oslo	Zambia



3.5 Appendix 5, Students Engagements

Type of engagement	Short description
Lecture	Ritika Sharma, lecture on student engagement in climate change and health course MED3066.
Stand	Ritika Sharma, Julie Ytre-Eide, Mina Karkhi represented SHE at Foreningsdagen UiO, Feb 2023.
Events	Ritika Sharma and Mina Karkhi participated in Planning Per Fugelli Lecture, the event was postponed.
Engagements	Mina Karkhi participated in student experience exchange meeting in Centres for Education in Excellence (SFU).
Engagements	Ritika Sharma and Mina Karkhi participated in Circle U. workshop in Aarhus, application review.
Engagements	Ritika Sharma and Mina Karkhi participated in SUSTAINIT strategy meeting: participated, designed a quiz.
Publication	Ritika co-writer on a publication: «Teaching sustainable healthcare through critical medical humanities. »
Events	Leading and organizing the annual “Helse og Bærekraftkonferanse” The Health and Sustainability Conference, held on 19. Sep at Domus Bibliotheca, attended by approximately 80 individuals, brought together key participants from various backgrounds, including Jenny Dinh Nguyen, Lars Eirik Kjekshus, Jarle Breivik, Ingvild Eide Graff, Yngvild Wasteson, Lars Robert Hellander, Knut Mork Skagen, Andrea Winkler, and moderators Shahana Balakumaran and Emma Lengle organized and led by students at the Centre for Sustainable Healthcare Education (SHE) in collaboration with the Centre for the Environment and Development (SUM).
Events	Mina Karkhi participated in developing AMR Week at UiO.
Events	Mina Karkhi represented SHE as she participated in the event Zan.Zendegi. Azan – Women.Life. Freedom seminar in honor of Narges Mohammadi, Nobel Peace Prize Laureate 2023.
Events	Helga M. Wnag-Haugseth worked at Per Fugelli 2023 event December 8. By actively participating, not only did we as SHE-students



	get to learn more about development planning and crisis management, but we also got insights into the organising of the lecture, which will be useful for the planning of future events. We also assisted in practical tasks such as food and venue preparations.
Engagements	Ritika participated in the launch of Center for Pandemics and One Health Center (CP1H Center).
Engagements	Ida Lillehagen lecture on Knowledge Translation at Muni Healthcare Research School, UiO.
In Media	Ritika interviewed with Tidsskriftet (Legeforeningens) on SHE and the student conference.
Stand	Ritika Sharma, Julie Ytre-Eide, Mina Karkhi represented SHE at Foreningsdagen UiO Sept 2023.
Engagements	Ritika Sharma participated in the committee to hire new students in CP1H: Student application and interviews.
Engagements	Mina Karkhi, Julie Ytre-Eide and Merete Graneng ran SHE social media (Instagram and Facebook)
Engagements	Ritika Sharma participated in the committee to hire new students in SHE: Student application and interviews.
Engagements	Ritika Sharma and Mina Karkhi participated in project meeting and promotion plans of student scholarships with PMNCH/WHO.

Comments on Students engagements

Julie and Merete: Due to semester abroad, Julie and Merete have mostly been having the responsibility for social media. They have actively participated in all the meetings and also application process for new students in Sustainit. Additionally, they have helped with planning and attending the foreningsdag.

The events and projects in 2023 showed the importance of including students in decision-making processes and played as a source of inspiration for student engagement initiatives. The enhanced collaboration between the three centres, coupled with the recruitment of new students in the following months, are steps towards broadening our outreach and solidifying a student-centric focus, actively shaping the future of SUSTAINIT to the benefit of students.

Engaging students through social media, particularly on platforms like Instagram and Facebook, is crucial for effective outreach. These platforms provide an effective way to connect with students, sharing information about scholarships, collaborative projects, conferences, and available student



positions. By attending the “foreningsdag”, the Students of SHE has gotten a live platform to introduce SHE, discuss ongoing projects, and generate immediate interest through personalized interactions. This year at foreningsdagen we promoted Scholarships for collaborative projects with PMNCH, Helse- og bærekraftskonferanse, new student positions at P1H, and SHE’s webpage and social media. As we have been an active part in the SHE initiatives in 2023, it has been exciting to promote and connect with peers, fostering a sense of community and emphasizing that students play a vital role in SHE's initiatives.

The Health and Sustainability Conference 2023

The Health and Sustainability Conference, held on 19. Sep at Domus Bibliotheca, attended by 80 individuals, brought together key participants from various backgrounds, including students, researchers and clinicians. This Event was organized and led by Ritika Sharma (SHE student leader), Ragnild Misje (medical student) and Anna Holmegaard (medical student), Centre for Sustainable Healthcare Education (SHE) in collaboration with the Centre for the Environment and Development (SUM).

This interdisciplinary conference offered a platform for discussing the importance of sustainability in healthcare, with a specific focus on the future of health in Norway and the one health framework. Featured workshops led by students and academics, addressing topics like health and climate-smart choices and integrating One-Health principles into projects and master's theses, created a dynamic environment fostering engagement, collaboration, and an in-depth understanding of the presented material.

Students took a leading role in initiating, organizing, and executing the conference, addressing students’ educational needs, while aligning with SHE's commitment to meaningful student engagement. The event was covered by Tidskriftet.

Mental Health and Well-Being for All -Laying the Foundations in Adolescence and Youth

This event raised awareness about mental health in adolescents and youth. The presentation by Francis Vergunst titled "The impact of climate change on mental health and psychosocial development among children/youth" contributed significantly. The event further explored “Simple, preventive measures everyone can do to protect their mental health and well-being” by POFU. The panel discussion provided a platform for critical discussions on mental health challenges from an adolescent and youth perspective, drawing comparisons with global experiences, particularly in Iran. SHE student representatives provided valuable insights on the essential role of youth leadership as drivers for positive change, emphasizing inclusivity and addressing the needs of those left behind.

Scholarships for collaborative projects with PMNCH

In collaboration with the Partnership for Maternal, Newborn and Child Health (PMNCH) hosted by the World Health Organization (WHO), SHE announced a unique scholarship opportunity (7-20 Sep).



Ten scholarships, each valued at 25,000 NOK, were made available for students actively participating in the creation of PMNCH's digital commitment compendium. This initiative plays a pivotal role in tracking commitments related to the health of women, children, and adolescents in priority countries, offering a crucial resource for evidence-based advocacy.

Engaging in desk reviews, mapping initiatives, and extracting key indicators, students contribute to addressing policy gaps, particularly in areas like preventable mortality, sexual and reproductive health rights, and adolescent well-being. This project not only hones students' research and analytical skills but also empowers them to play a hands-on role in the global mission to enhance health outcomes for women, children, and adolescents. SHE student Mina was involved in the evaluation of the applicants and this process of student involvement has helped us in direction of one of our goals in SHE, which is to contribute to educational initiatives with a student-centric focus.

Students for wise choices

Students for Wise Choices is a national program for students in medicine and nutrition, and you get to know students from Tromsø, Bergen, Trondheim and Oslo. SKV is part of GKV (make wise choices) and SHE (Centre for Sustainability in Healthcare Education).

GKV is a campaign that wants to reduce over-investigation, over-treatment and over-diagnosis. The campaign started as an initiative from the Norwegian Medical Association, but today many others are also involved, such as the Norwegian Dental Association, the Norwegian Physiotherapist Association, etc. SHE, for its part, contributes with the climate, environment, and sustainability perspective.

In SKV, you get to work on an exciting project, either by yourself or in collaboration with other students, with a supervisor from a professional environment in medicine or nutrition

The projects are mainly about medical overactivity or the connection between climate, sustainability and health. But you also learn about management and communication and get to take part in exciting conferences.

3.6 Appendix 6, Mobility and External engagements

Type of mobility	Short description
Part-time affiliations with SHE ("bistilling")	Ernst Kristian Rødland, senior medical officer at FHI, 20% position as associate professor at SHE.
Part-time affiliations with SHE ("bistilling")	Helena Legido-Quigley, Associate professor at the Saw Swee Hock School of Public Health and London School of Hygiene and Tropical Medicine holds a part-time affiliate researcher position at SHE.
Part-time affiliations with SHE ("bistilling")	Trisha Greenhalgh, Professor of Primary Care Health Sciences, Oxford University, holds a 20% position as associate professor at SHE.



Part-time affiliations with SHE ("bistilling")	Erlend Tuseth Aasheim, Director of global health and health intelligence at Norwegian Directorate of Health, holds a 20% position as associate professor at SHE.
Other non-UiO engagement	Prof Eivind Engebretsen and Prof Beate Sjøfjell chairmen of Conference of Sustainability at University of Bergen February 2023 with participants from different sectors.
Other non-UiO engagement	Prof. Kristin Heggen participated in a digital discussion about sustainability on Day Zero of the Conference of Sustainability organized by HK-Dir. Feb 2023.
Other non-UiO engagement	Prof. Kristin Heggen. Lecture and workshops for Danish teachers/professors about sustainability education. Faculty of Medicine, Copenhagen University, Denmark
Other non-UiO engagement	Prof. Kristin Heggen. Lecture for teachers/professors about sustainability education. University of Agder.
Other non-UiO engagement	Prof. Kristin Heggen planned and organised national conference about research in education, University of Tromsø 19 + 20 October.
Visiting scholar or expert to SHE	Prof Trish Greenhalgh University of Oxford and affiliated to SHE gave a lecture in «Evidence based on practice and power».
Visiting scholar or expert to SHE	Professor Paul Han from US National Cancer Institute. Main purpose: To discuss and give lectures on uncertainty in health decisions.
Teaching and lectures outside UiO	Digital seminar: Minimizing social and health harms from methamphetamine use in Norway and New Zealand with R. Hon Helen Clark, Philippa Yasbek, Sarah Helm, Rita Sørly, Emma Lengle, Kali Mercier, Eivind Engebretsen.
Teaching and lectures outside UiO	Launching Lancet paper: Teaching sustainable healthcare through the critical medical humanities with Prof Ole P Ottersen, Jessamy Bagenal, Helen Clark, Eivind Engebretsen, Trish Greenhalgh, Tony Sandset, Kristin M. Heggen, Ritika Sharma, Magda Robalo Coreia e Silva.
Teaching and lectures outside UiO	Arendalsuka: Tony Sandset participated in a panel debate: «Rasisme og diskriminering – Et folkehelseproblem?»
Teaching and lectures outside UiO	Carolina B. R. Steuernagel teaching in qualitative methods in Brasil. Feb 2023.
Teaching and lectures outside UiO	Carolina B. R. Steuernagel lecture on sustainable health in Brasil. Feb 2023.



Other non-UiO engagement	Carolina B. R. Steuernagel presentation on Nordic STS Conference in Oslo. June 2023.
Other non-UiO engagement	Carolina B. R. Steuernagel presentation Bodies in Translation Conference in Oxford. Sept 2023.
Other non-UiO engagement	Carolina B. R. Steuernagel presentation social studies of microbes in Goteborg. Oct 2023.
SHE staffs as visiting scholar	Tony Sandset lecture «Circulation, Calculation, control: Thoughts of epidemics and their ends. » Southern Methodist University, Dallas.
SHE staffs as visiting scholar	Tony Sandset lecture «How do pandemics end? » American Scandinavian Foundation, New York.
Other non-UiO engagement	Lancet commission with Prof Ole Petter Ottersen, Prof Eivind Engebretsen contributes to the Lancet commission on pandemic response.
SHE staffs as visiting scholar	Eivind Engebretsen holds European exchange professorship (academic chair) at European University Alliance Circle U. Teaching about sustainability across 9 European Universities. 20% position.
Teaching and lectures outside UiO	Eivind Engebretsen gives lecture an SDG conference in Bergen on the Day Zero programme (which involves non-academic partners)
Other non-UiO engagement	Eivind Engebretsen leads the programme committee for the annual Bergen SDG conference for 2023. In partnership with UNESCO.
Teaching and lectures outside UiO	Eivind Engebretsen contributes to Circle U summers school at University Hospital of Paris for health professionals on sustainability and global health.
Teaching and lectures outside UiO	Eivind Engebretsen contributed with lecture at Circle U summer school at Humbolt University in Berlin, on communicating climate change.
Teaching and lectures outside UiO	Erlend Tuseth Aasheim, lecture at Lovisenberg sykehus.
Teaching and lectures outside UiO	Erlend Tuseth Aasheim, lecture at Norske Medicinske Selskab.
Teaching and lectures outside UiO	Erlend Tuseth Aasheim, many lectures at Helsedirektoratet.
Other non-UiO engagement	Erlend Tuseth Aasheim, participated at COPP28 in Dubai.



Teaching and lectures outside UiO	Banik, Dan. Bergen SDG conference 2023. Panel discussion: A safe and just space for all species. Bergen SDG Conference 2023; 2023-02-09.
Other non-UiO engagement	Banik, Dan. Theme: "Progress and challenges of achieving the Sustainable Development Goals: Global experiences and the implications for Ethiopia". Seminar; 2023-03-03.
Other non-UiO engagement	Banik, Dan. 'Climate change adaptation, mitigation and resilience in Malawi'(keynote speaker and panel discussant). Roundtable discussion; 2023-05-29.
Other non-UiO engagement	Banik, Dan. Nurturing Sustainable Development: The Power of Political Commitment and Financial Innovation (Panel Moderator). Catalyzing Sustainable Progress: Uniting Research and Policy; 2023-10-19.
Other non-UiO engagement	Mona Baker. Conference of the Association of Translation Studies in Africa, Cameroon. Keynote on Narrative and Discourse
Other non-UiO engagement	Mona Baker. Translation and Medical Humanities Conference, Oxford. Keynote on Health, Ecology and the Dark Side of Translation
Other non-UiO engagement	Mona Baker. Lecture to staff and postgraduate students. From Linguistic to Conceptual Analysis: The Genealogies of Knowledge and Oslo Medical Corpus Projects.
Other non-UiO engagement	Mona Baker. AUA International Academic Conference on Corpus Linguistics (Universiti Malaya in collaboration with the Asian Universities Alliance (AUA). Keynote: The Oslo Medical Corpus: A resource and methodology for conceptual research in the Medical Humanities.
Other non-UiO engagement	Emma Lengle. Convergence on Global Health Conference, Karolinska Institutet. Sverige.
Other non-UiO engagement	Emma Lengle. Establishing The Lancet Commission on Global Governance for Health together with Ole Petter Ottersen among others.
Other non-UiO engagement	Emma Lengle. Eivind Engebretsen. Lectures on Helen Clark Foundation webinar «Minimising Harms from Methamphetamine» Norway and New Zealand.
Other non-UiO engagement	Emma Lengle. One Sustainable Health for All Conference in Lyon, France.
Other non-UiO engagement	Researcher Arunima Mukherjee lecture «Security, conflict and development» Institute



	for International Environmental and Development Studies, Noragric, NMBU
Other non-UiO engagement	Researcher Arunima Mukherjee lecture «Hospital Information Systems» School of Health Systems Studies, Tata Institute of Social Sciences, India
Other non-UiO engagement	Researcher Arunima Mukherjee lecture «Public Health Informatics» School of Public Health, Post Graduate Institute of Medical Education and Research, Chandigarh India
Other non-UiO engagement	Researcher Arunima Mukherjee lecture «Digital Citizenship» School of Public Policy, Indian Institute of Management Ahmedabad (IIMA), India
Other non-UiO engagement	Researcher Arunima Mukherjee hosted panel Human vulnerability and human development: Lessons from East and South Asia September 2023, Human Development and Capabilities Approach (HDCA) conference, Sofia, Bulgaria
Other non-UiO engagement	Researcher Arunima Mukherjee hosted panel Living on the Margins: Gendered Spaces and Power Politics September 2023, Human Development and Capabilities Approach (HDCA) conference, Sofia, Bulgaria
Other non-UiO engagement	Researcher Arunima Mukherjee chaired the conference Theme: After Latour: Globalisation, Inequity and Climate Change Joint IFIP Conference, (WG 8.2 and WG 9.4) Hyderabad, India, December 7–8, 2023
Other non-UiO engagement	Mukherjee, A. S. (2023). Health Literacy Capabilities as Social Practice. Human Development and Capabilities Approach (HDCA) conference, Sofia, Bulgaria
Other non-UiO engagement	Ernst Kristian Rødland lecture «Consequences of climate change and disrupted natural systems on Health». Ernst was one of the speakers at Institute of Tropical Medicine, Katmandu, Nepal.
Other non-UiO engagement	Ernst Kristian Rødland lecture «Krig og konflikt og En-helse» i Det Norske Vitenskaps-Akademi. Okt, 2023.
Other non-UiO engagement	Ernst Kristian Rødland lecture «Klimaendringer og infeksjonssykdommer» at Bioingeniørkongressen 2023.



Other non-UiO engagement	Tony Sandset held lecture in Copenhagen as part of collaboration with Drexel University's Intensive Courses Abroad. Held lecture on "Addiction, Public Health & Harm Reduction"
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3.7 Appendix 7, Learning Resources and Digital Lectures

SHE has developed a collaborative resource page as a result of the recommendations put forth by students and researchers who took part in [a report](#) (available only in Norwegian) on climate and sustainability in health education. The University of Bergen, UiT the Arctic University of Norway, NTNU, and the University of Oslo have collaborated to develop this resource page. New resources developed by researchers in SHE during 2023, are:

- Uncertainty in clinical decision making by Paul Han
- Making people sick in the pursuit of health by Bjørn Hofmann
- Antibiotics resistance requires revolution? By Amanda Hylland Spjældnes
- Soon we will all be patients by Alexandra Brandt Ryborg Jønsson and John Brandt Brodersen
- 1.8 billion young people for change campaign – cooperation with World Health Organisation (WHO) with Synne H. Rahn
- 1.8 billion young people for change campaign – cooperation with World Health Organisation (WHO) with Mina Karkhi
- 1.8 billion young people for change campaign – cooperation with World Health Organisation (WHO) with Alexander Banik
- Corpus Analysis
- Outlining a case
- Concepts and clusters
- Articulated antagonism
- Visual rhetoric
- Text and context
- Corpus composition
- Keyword and concordance
- The Oslo Medical Corpus
- Transforming medical students understanding of cancer – cooperation with Department of Behavioural Medicine, UiO
- Teaching sustainable healthcare through medical humanities
- How to use Oslo Medical Corpus 1
- How to use Oslo Medical Corpus 2

[All 20 videos are available on YouTube.](#)



In Pursuit of Development – Prof Dan Banik’s podcast:

Banik, Dan. Locally led development and the future of aid — Håvard Mogleiv Nygård. In Pursuit of Development podcast [Internet] 2023-03-08

<https://in-pursuit-of-development.simplecast.com/episodes/haavard-nygaard>

Banik, Dan. Poverty and the new threat to prosperity — Indermit Gill. In Pursuit of Development podcast [Internet] 2023-03-15

<https://in-pursuit-of-development.simplecast.com/episodes/indermit-gill>

Banik, Dan. Rethinking "evidence" — Eivind Engebretsen and Mona Baker. In Pursuit of Development podcast [Internet] 2023-03-11

<https://in-pursuit-of-development.simplecast.com/episodes/engebretsen-baker>

Banik, Dan. Patching development – Rajesh Veeraraghavan. In Pursuit of Development podcast [Internet] 2023-04-19

<https://in-pursuit-of-development.simplecast.com/episodes/veeraraghavan>

Banik, Dan. Is economic growth the magic wand for ending poverty? — Charles Kenny. In Pursuit of Development podcast [Internet] 2023-04-12

<https://in-pursuit-of-development.simplecast.com/episodes/kenny>

Banik, Dan. Humanity's Enduring Quest for Power and Prosperity - Daron Acemoglu. In Pursuit of Development Podcast [Internet] 2023-10-25

<https://in-pursuit-of-development.simplecast.com/episodes/daron-acemoglu2>

Banik, Dan. Political Constraints in Growth and Development: Moving beyond talking about them to actually tackling them – Peter Evans. In Pursuit of Development Podcast [Internet] 2023-11-08

<https://in-pursuit-of-development.simplecast.com/episodes/peter-evans>

Banik, Dan. Making Sense of Cancer: Why Better Therapy Leads to More Disease – Jarle Breivik. In Pursuit of Development Podcast [Internet] 2023-12-06

<https://in-pursuit-of-development.simplecast.com/episodes/breivik>



3.8 Appendix 8, Collaboration Partners

Institution	Project	People
University of Bergen, Arctic University of Tromsø, NTNU, University of Oslo	A group of teachers/researchers representing the four Norwegian medical faculties is following up the Climate report and together develop new pedagogical approaches and share experiences.	Filip Maric, Marit Øilo, Julia K. Baumgart, Tora Bonnevie, Kristin M Heggen, Eivind Engebretsen, Astrid Gramstad, Tony Sandset, Ann Kristin Fell Eevi Elisabeth Beck
University of Bergen, Arctic University of Tromsø, NTNU, University of Oslo The Norwegian Medical Association	Students for Wise Choices is a national program for students in medicine and nutrition, and you get to know students from Tromsø, Bergen, Trondheim and Oslo.	Eline Hernes, Terese Signahl, Evgenia Taranova, Ben Bjørsvik
OsloMet, UiO, UiT, UiA	Developing a textbook for BA-students in nursing using a case-based approach.	Marit Kirkevold, Hilde Woien, Rita Sorlie, Inger Danielsen, Kristin Jeppetol, KM Heggen
Medical students, University of Oslo	A group works with moduls and LUBs at the medical studies to strengthen sustainability in lectures in medicine	Evgenia Taranova, Carolina Steuernagel. Sietse Wieringa, Prof Kristin M. Heggen
UiO:Democracy	One of three interdisciplinary initiatives at University of Oslo (the others are UiO:Energy&Environment and UiO:LifeScience)	
Sustainit, University of Oslo	The Sustainable Health Unit (SUSTAINIT) is a knowledge cluster with the aim of promoting interdisciplinary approaches to sustainable health research and education.	Prof Jens Petter Berg, Prof Nils Christian Stenseth, Jeanette Magnus, Prof Eivind Engebretsen, Anja Annesdatter Riiser
Center for Development and Environment (SUM), University of Oslo	Courses, events, publications	Prof Dan Banik
Faculty of Humanities	Bodies in Translation, funded by the Research Council of Norway	Led by Prof John Ødemark
OsloMet	VIRTUAL PRESENCE, sponsored by the Research Council of Norway	Led by Marit Haldar



Institute of Informatics, Faculty of MatNat, UiO	Equity AMR, backed by the Research Council of Norway	Led by Prof Sundeep Sahay
World Health Organisation (WHO)	Scholarships for collaborative projects with the Partnership for Maternal, Newborn and Child Health (PMNCH)	NN Ida Lillehagen Hilde O. Vandeskog
University of Edinburgh	Oslo Medical Corpus	Shane Sheehan, Saturnino Luz
University of Oxford		Trish Greenhalgh
Circle U.: Kings College of London University Paris Cite Belgrade University University of Vienna University of Humboldt, Berlin University of Aarhus University of Pisa University of Louvain, Catholic University of Oslo	Programmes and courses	Different persons in Circle U. and in each of the universities.
Circle U.: Kings College of London University Paris Cite Belgrade University University of Vienna University of Humboldt, Berlin University of Aarhus University of Pisa University of Louvain, Catholic University of Oslo	Student Fellows	Student Fellows 2023-2024: Ellisiv Eilif, Katey Givan working as partners in MEDRA.
Lancet Commission	NUS-Lancet Pandemic Readiness, Omplementation, Monitoring and Evaluation (PRIME) Commission	Chaired by Helen Clark, Sania Nishtar and Helena Legido-Quigley
Helen Clark Foundation, New Zealand	Lancet Commission, events, International Advisory Board SHE	Helen Clark
University of Perugia, University of Belgrade, University Paris Cite, Agder University University of Oslo	ERASMUS+ Debating Democracy. Honors Certificate.	Federico Irena Fiket Viktoria Nagy Louis Gabriela Saldanha Viva
Different Angles, Cambridge	International Advisory Board SHE	Jonathan Grant
Lancet Commission	NUS-Lancet on Pandemic Readiness, Implementation,	Commission chaired by Helen Clark, Sania Nishtar and Helena Legido-Quigley



	Monitoring and Evaluation (PRIME)	
Lancet Commission	UiO-Lancet Commission on Global Governance for Health 2.0	Commission chaired by Ole Petter Ottersen

3.9 Appendix 9, Publications

- Ødemark, J., Resløkken, Å. N., Lillehagen, I., Engebretsen, E.
[The Sociology of Translation and the Politics of Sustainability](#). (2023). Routledge.
- Banik, Dan; Venkatachalam, Meera; Modi, Renu.
[Catalysing Progress Through Capacity-Building Initiatives: Learnings from India's Pan-African e-Network Project in Ghana and Malawi](#). Observer Research Foundation 2023.
- Biermann, F., Sun, Y., Banik, D., Beisheim, M., Blomfield, M.J., Chasek, P., Hickmann, T., Pradhan, P., Senit, C.A. [Four governance reforms to strengthen the SDGs](#). (2023). Science.
- Mona Baker and Luis Pérez-González. 'Translation and Interpreting', in Li Wei, Zhu Hua and James Simpson (eds)
[The Routledge Handbook of Applied Linguistics](#), second edition, London & New York: Routledge, 230-242.
- Sadler, Neil, Mona Baker and Eivind Engebretsen ['Translation and the Political: Antagonism and Hegemony'](#), *Translation Studies*. 17:1, 152-168.
- Nebeling Petersen, Michael; de Fønss Wung-Sung, Tobias; Sandset, Tony Joakim Ananiassen; Frydendahl Larsen, Bolette; Møller, Kristian; Bissenbakker, Mons.
[En introduktion til en skandinavisk hiv/aids-historie](#). Kvinder, Køn og Forskning 2023 (1) s. 7-20
- Sandset, Tony Joakim Ananiassen.
[PrEP, Pharmakon, and Ambivalence in the Era of Nordic HIV Prevention](#). Kvinder, Køn og Forskning 2023 ;Volum 351.(1) s. 118-133
- Aasheim, E.T., [Kurs om klimaendringer for legestudenter](#). Tidsskrift for Den norske legeförening.
- Lindholm, E., Hegde, J., Saltnes, C., Leonardsen, AC., Aasheim, E. T.
[Climate change, sustainability and anesthesiology practice: A national survey among anesthesiologists and nurse anesthetists in Norway](#). ScienceDirect.com by Elsevier.
- Bengtsson-Palme, J., Abramova, A., Berendonk, T.U., Coelho, L.P., Forslund, S.K., Gschwind, R., Heikinheimo, A., Jarquin-Diaz, V.H., Khan, A.A., Klümper, U., Löber, U., Nekoro, M., Osinska, A.D., Perovic, S.U., Pitkänen, T., Rodland, E.K., Ruppe, E., Wasteson,



- Y., Wester, A.L., Zahra, R.
Towards monitoring of antimicrobial resistance in the environment: [For what reasons, how to implement it, and what are the data needs?](#) (2023). Environment International. Elsevier.
- Engebretsen, E., Sharma, R., Sandset, T., Heggen, K.M., Ottersen, O.P., Clark, H., Greenhalgh, T. [Teaching sustainable health care through the critical medical humanities.](#) (2023). The Lancet.
 - Davis, Sara L M; Pham, Trang; Kpodo, Irene; Imalingat, Tara; Muthui, Alex Kilonzo; Mjwana, Nomtika; Sandset, Tony Joakim Ananiassen; Ayeh, Elsie; Dong, Do Dang; Large, Kaitlin; Nininahazwe, Cedric; Wafula, Timothy; Were, Nerima; Podmore, Mike; Maleche, Allan; Caswell, Georgina.
[Digital health and human rights of young adults in Ghana, Kenya and Vietnam: A qualitative participatory action research study.](#) BMJ Global Health 2023; Volum 8. (5)
 - Engebretsen, E., Baker, M.,
[Health Preparedness and Narrative Rationality: A Call for Narrative Preparedness.](#) (2023) International Journal of Health Policy and Management (IJHPM)
 - Sending, Ole Jacob; Angelsen, Arild; Banik, Dan; Helland, Anne-Marie; Myklebust linde, Karoline; Lomøy, Jon; Mellingsæter, Trond; Selbervik, Hilde Beate; Tørres, Liv.
[Investerings i en felles fremtid: Et nytt rammeverk for utviklingspolitikken.](#)
Norge: Utenriksdepartementet 2023 114 VAVis.T_SideForkortelse
NMBU UiB NUPI UiO
 - Getachew, M., Lerdal, A., Småstuen, M.C., Eshete, M.T., Tilahun, Desta, T., Lindberg, M.F.
[Modifiable factors associated with a consistently high acute pain trajectory after surgical treatment of traumatic fractures in Ethiopia: a multi-center prospective cohort study.](#) (2023) National Library of Medicine.
 - Aasheim, E.T., Bhopal, A.S., O'Brien K., Lie A.K., Nakstad E.R., Andersen, L.F. [Climate Change and Health: a 2-week course for medical students to inspire change.](#) (2023) The Lancet.
 - Strandrud, J., Melsether, S., Brasfield, D., Aasheim, E. T. [On the path to a climate-friendly health service.](#) Tidsskriftet for Den norske legeförening.
 - Thakral, Y., Sahay, S. and Mukherjee, A., 2023. Microfoundations of Data-Driven Antimicrobial Stewardship Policy (ASP). Antibiotics, 13(1), p.24.
 - Modgil, V., Sahay, S., Taneja, N., Mukherjee, A., Pahil, S., Kaur, H., Singh, N., Arora, G., Joshi, N., Surial, R. and Sinha, O., 2023. Assessing Feasibility of Point-of-Care Antibiotics Susceptibility Testing Technologies for Mitigating Access Gaps for Peripheral Communities (No. 11478)
 - Jones, M.R., Mukherjee, A.S., Thapa, D. and Zheng, Y. eds., 2023, December. After Latour: Globalisation, Inequity and Climate Change: IFIP WG 8.2 and WG 9.4 Joint Working



Conference, IFIPJWC 2023, Hyderabad, India, December 7–8, 2023, Proceedings. In IFIP Joint Working Conference on the Future of Digital Work: The Challenge of Inequality. Cham: Springer Nature.

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- Sahay, S., Mukherjee, A.S., Tauro, C.K. and Sen, A., 2023. Making HIS More Agile, Relevant and Public Health Friendly: Lessons from Covid-19 in India. *DIALOGUE: Science, Scientists and Society*, pp.1-25.
- Kumar, M., Sahay, S., Mukherjee, A.S. and Chandwani, R., 2023. Orchestrating 'Institutional Network' for the Sustainability of IS Program: Evidence from Indian Public Healthcare.
- Mukherjee, A.S., Sahay, S., Kumar, R., Banta, R. and Joshi, N., 2023. "A living lab within a lab": approaches and challenges for scaling digital public health in resource-constrained settings. *Frontiers in Public Health*, 11.
- Greenhalgh, Trisha; Engebretsen, Eivind; Bal, Roland & Kjellström, Sofia (2023). Toward a Values-Informed Approach to Complexity in Health Care: Hermeneutic Review. *Milbank Quarterly*. ISSN 0887-378X. doi: [10.1111/1468-0009.12656](https://doi.org/10.1111/1468-0009.12656).
- Rau Steuernagel, Carolina; Lam, Carolyn S P & Greenhalgh, Trisha (2023). Countering sex and gender bias in cardiovascular research requires more than equal recruitment and sex disaggregated analyses. *The BMJ*. ISSN 1756-1833. 382. doi: [10.1136/bmj-2023-075031](https://doi.org/10.1136/bmj-2023-075031).



3.10 Appendix 10, Events

Total 28 events in 2023. In average per month: 2,5 events.

Total audiences learning about sustainable healthcare education: NN

Date	Title	Participants	Format	Audience
December 8	Lecture: Per Fugelli Lecture 2023: Possibilities to protect the fragile earth in our time	President Halonen, Rector Svein Stølen, prof Espen Bjertness, student Marika Kromberg and Mia Andersen Linnerud. Moderator: Dan Banik	Physical. Domus Medica, UiO	65
November 23	Panel Debate: Resistent gonoré: Kjønnsykdommen du ikke blir kvitt	Lege Anne Olaug Olsen, forsker Sigurd Høye, student Oda M.S. Joramo. Moderator: Amanda H. Spjældnes	HumSam Scene	20
November 21	Seminar: Interdisciplinary Forum for Research on Antimicrobial Resistance (INFRA)	Resercher Ida Lillehagen, Mingyuan Zhang, Lise Bjerke, Sigurd Høye	Aud 2, Georg Sverdrups Hus	10
October 26	SHEtalk: Wiki (Alt) Med Corpus	Henry Jones	Digital	30
October 19	SHEtalk: Why should lay epidemiology matter	Kari Nyheim Solbrække	Digital	15
October 11	Digital information meeting: Honors Certificate in Education for Sustainable Health	Tony Sandset	Digital	35
September 26	Adolescence and Youth, mental health and well-being for all	Students	Digital	50
September 21	SHEtalk: Stakeholding and social construction in medicine	Shane N. Glackin	Digital	20
September 19	Helse- og bærekraftskonferanse	Students	Domus Bibliotheca	80
September 14	SHEtalk: Making the diabetic, 1943-1948	Ylva Söderfeldt	Digital	25



September 11	SHEtalk: Understanding and managing uncertainty	Paul Han	Digital	30
September 7	SHEtalk: Equity and the right to health	Chiara Bodini	Digital	20
August 31	Open Lecture	Prof Stephen Baker, Univ of Cambridge	Styrerommet, Lucy Smiths Hus	15
June 16	Seminar: The coronavirus pandemic in India	Prof Paul Kattuman	Ole Johan Dahls Hus	20
June 1	SHEtalk: How to prevent and prepare for pandemics at the national and international level	Dr. Helena Legido-Quigley	Digital	30
May 25	Seminar: Knowledge translation and incommunicability	Prof Charles Briggs, Clara Mantini-Briggs, John Ødemark, Eivind Engebretsen, Marta Arnaldi, Kari N Solbrække, Tony Sandset	Seminarrom 1, Georg Sverdrups Hus	35
May 24	Lecture: Why was the Covid-19 pandemic in the US such a disaster?	Prof Charles Briggs	Hannah Ryggen, Lucy Smiths Hus	35
May 16	Launching Lancet paper: Teaching sustainable healthcare through the critical medical humanities	Prof Ole P Ottersen, Jessamy Bagenal, Helen Clark, Eivind Engebretsen, Trish Greenhalgh, Tony Sandset, Kristin M. Heggen, Ritika Sharma, Magda Robalo Coreia e Silva	Digital	100
May 11	SHEtalk: Global Health Equity in a Post-Pandemic Economy	Prof Ronald Labonté	Digital	20
May 9	Seminar: Antimicrobial resistance as a biosocial problem – need for a paradigm shift?	Network	Frederik Holsts Hus	20



April 27	Seminar: Minimising social and health harms from methamphetamine use in Norway and New Zealand	R. Hon Helen Clark, Philippa Yasbek, Sarah Helm, Rita Sørly, Emma Lenge, Kali Mercier, Eivind Engebretsen	Digital	50
April 20	SHETalk: The art of the data-driven expose: Archie Cochrane, Thomas McKeown and mid-20 th century medical scepticism	Caitjan Gainty	Digital	20
March 23	SHETalk: Conspiracy Theories in the time of Covid-19	Clare Birchall	Digital	20
March 9	SHETalk: The Promise and Limits of Citizens Assemblies	Irena Fiket	Digital	20
February 16	SHETalk: Resisting "Heroism": the language of vulnerability on the Covid-19 frontline	Dr. Steven Wilson	Digital	20
February	Day Zero	HK Dir	Digital	
February 8	Hvilke muligheter ligger i å integrere bærekraft i høyere utdanning	Bærekraftskonferansen 2023	Fysisk i Bergen og digital	1500
January 26	SHETalks: «Mine own deformity»: Translations of Shakespeares Richard 3. Through the lens of critical disability studies	Dr Eva Spisiakova	Digital	20
January 19	Lecture: Evidence based on practice and power	Prof Trish Greenhalgh	Digital	30



3.11 Appendix 11, In Media

- [Finlands tidlegare president: – Norden har vist at det er mogleg å få til gode velferdssamfunn for alle.](#) Uniforum. 12.12.2023.
- [Studenter bidrar til klokere valg.](#) Tidsskriftet Den norske legeforening. 06.11.2023
- [Et bærekraftig helsevesen.](#) Podkast. Intervju med Erlend T. Aasheim. Tidsskrift for Den norske legeforening.
- Rødland, E. K., [En trippel global krise.](#) (2023). Tidsskriftet. Tidsskriftet for den norske legeforening.
- [Fremtidens høyere utdanning trenger en oppgradering - ikke budsjettkutt!](#) Khrono. 09.10.2023
- [En helseutdanning for fremtiden.](#) Medisinstudent og studentleder i SHE, Ritika Sharma, vil ha studentene på banen. Tidsskriftet Den norske legeforening. 19.10.2023
- [On the path to a climate-friendly health service.](#) Janne Strandrud, Silje Melsether, David Brasfield, Erlend Tuseth Aasheim. Tidsskriftet for Den norske legeforening
- Hyatt, Jordan; Andersen, Synøve Nygaard; van der Veen, Jannet; Sandset, Tony Joakim Ananiassen. [Philadelphia bans supervised injection sites – evidence suggests keeping drug users on the street could do more harm than good. The Conversation 2023](#)
- Vøllestad, N.K., Brekke, M., Skonnord, T., Heggen, K.H. [Fremtidens fastleger som bærekraftsagenter.](#) Tidsskriftet Den norske legeforening. 12.10.2023
- Engebretsen, E., Sjøfjell, B. [Det grønne skiftet må ikke få fortsette å skape et grønt utenforskap.](#) Debatt. Khrono. 10.02.2023
- Reddy Burri, Ranga; Banik, Dan; Bjerke, Lise; Kishore Kannuri, Nanda. [Promoting sustainable healthcare and India-Africa pharmaceutical trade.](#) Financial Express, India 2023.



3.12 Appendix 12, People in SHE

Management and administrative staff

Eivind Engebretsen, Centre Leader
Kristin M. Heggen, Deputy Director
Trine Kleven, Administrative Manager
Marcela Melany Escobar Fraas, Executive officer

Researchers and students

Eivind Engebretsen
Kristin M. Heggen
Tefamichael Alaro Agago
Clemet Askheim
Mona Baker
Trish Greenhalgh
Gina Fraas Henrichsen
Ida Lillehagen
Tony Joakim Sandset
Carolina Borges Rau Steuernagel
Hilde Ousland Vandeskog
Erlend T. Aasheim
Dan Banik
Jarle Breivik
Sietse Wieringa
Sundeep Sahay
Gabriela Saldanha
Shane Sheehan
Saturnino Luz
Nina K. Vøllestad
Kyung Hye Kim
Ernst Kristian Rødland
Lise Bjerke
Emma Lengle
Helena Legido-Quigley
Arunima Sehgal Mukherjee
Marta Arnaldi
Million Tesfaye Eshete
Alejandro Valdivia
Vaja Petrovic

Ben Bjørsvik (student)
Evgenia Taranova (student)
Merete Graneng (student)
Julie Ytre-Eide (student)
Ellisiv Eskild, (student fellow - Circle U.)



Katey Givan (student fellow - Circle U.)
Julie Ytre-Eide(student)
Simon Ekeland Bastrup (student)
Helga Marie Wang-Haugseth (student)
Eline Hernes (student)
Terese Signahl (student)
Mina Karkhi (student)
Helga Marie Wang-Haugseth (student)
Ritika Sharma (student)
Bruktait Ahmed Yimam (scientific assistant)

Center Management Board

Bjørn Stensaker, Vice-rector for Education and Executive chairman of SHE
Eivind Engebretsen, Director and Professor at Sustainable Health Unit (SUSTAINIT)
Elin O. Rosvold, Head of Institute of Health and Society
Anders Malthe-Sørenssen, Director of Center for Computing in Science Education
Jarle Breivik, Professor at Institute of Basic Medical Sciences
Knut Lundin, Professor at Institute of Clinical Medicine
Magnus Løberg, Pro-Dean of Education
Hans Mossin, director at Faculty of Medicine
Students Amanda Rose Magnum og Ida Martinsson (MSU)

Norwegian Directorate for Higher Education and Skills has a representative on the board.

International Advisory Board

Ole Petter Ottersen, Professor and the Vice-Chancellor at Karolinska Institutet, Sweden. Ottersen is the chair of IAB.
Trish Greenhalgh, Professor of Primary Care Health Sciences, Oxford University, United Kingdom.
Jonathan Grant, Professor & Director of Different Angles, Cambridge.
Helen Clark, former Prime Minister of New Zealand and former UN Development Program (UNDP) Administrator.



3.13 Appendix 13, Budget & Expenditures

NOK – Norwegian kroner	Budget 2023	Expenditures 2023
<i>Personnel and indirect costs</i>		
Personnel	5 057 523	6 394 660
Indirect costs	1 070 824	1 278 932
SUM – Indirect costs	6 128 347	7 673 592
<i>Other costs</i>		
Purchase of services	724 938	766 156
Equipment	0	0
Other operating expenses	3 170 000	1 095 780
SUM – Other costs	3 894 938	1 861 936
TOTAL	10 023 285	9 535 528

Comments:

Purchase of services

Consulting services, legal services, and other: NOK 766.156 (Partner transfer to Edinburgh amounts to NOK 566.636 and Fenix Consulting, Pongraz amounts to NOK 121.000)

Other Operating Costs

Travel expenses: NOK 767.517

Meetings, seminars, conferences: NOK 183.246

Other ongoing expenses: NOK 145.017

Personnel

Direct salary costs allocated to the project, minus any exemptions. We have also included the invoice from Oxford University relating to Prof. Trish Greenhalgh.



3.14 Appendix 14, Goals & Milestones 2020-2024

Work packages (WPs) and milestones (M)	2020				2021				2022				2023				2024			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
WP1: SDG Courses and Pedagogical Approaches																				
Overall course plan developed																				
First cohort of courses developed																				
Second cohort of courses developed																				
Third cohort of courses developed																				
Pedagogical methods developed																				
Team based education courses																				
WP2: Strategic ESD Development and Adaptation																				
Overall plan for MA program developed																				
Content development of MA program																				
Implementation of MA program																				
Implementation of SDG courses (WP1) in existing programs																				
UNESCO skill courses																				
Career development and leadership courses																				
WP3: Educational Material Development in EDS																				
MOOCs developed																				
Online seminars																				
WP4: Digital Solution Development in ESD																				
Digital translation of course content in WP1																				
Student feedback schemes developed																				
WP5: Promote student and teacher engagement in ESD																				
Student driven seed-funding																				
Peer-to-peer teaching schemes planned and developed																				
Peer-to-peer teaching schemes implemented																				
WP6: Research and development for ESD																				
Development of implementation tools																				
Research on EBM model																				
Research on implementation of programs and courses																				
WP7: Networking and dissemination																				
Maintain up-to-date information about SHE																				
Consolidate a national and international network of students, teachers and stakeholders																				
Conferences and workshops																				