



# ANNUAL REPORT 2022

CENTRE FOR INTERNATIONAL HEALTH

UNIVERSITY OF BERGEN



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# FROM THE CENTRE DIRECTOR

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Many things went back to normal this year, after the COVID-19 - pandemic. The online activities were many and substantial in the beginning of the year, but we started to travel again in the spring semester.

However, new challenges appeared. The Russian invasion of Ukraine in February made huge problems for our network activities in Ukraine. In addition, this war influences the whole world by new refugee flows, risks of global food scarcity, energy shortages and rising inflation-just to mention a few relevant topics.

We have amazing and important partners in academic institutions all over the world, and it was great to meet them again. Although online meetings often are good and useful, it is necessary to meet each other in person from time to time. Also, we were very happy to see our students coming back to campus in the autumn. We have learned many tricks regarding online and hybrid teaching activities, but we do enjoy seeing our students in the classroom.

Many of the administrative systems at UiB changed this year, and I am sorry to say: We did not experience many improvements. Most things became more difficult to handle than before.

In addition to a new economy system, we needed to start using a multi-factor login system at UiB. This was very difficult to introduce for our students and PhD candidates



in countries where there are challenges related to electricity, internet, and mobile network.

All these systems clearly increased the workload for most of us, both scientific and administrative staff.

However, despite these obstacles, the staff at CIH never decreased their activity this year. Flexibility was seen whenever needed, and it has been very impressive. CIH is an amazing workplace!

Bergen, May 2023

Bente E. Moen

# STRATEGY 2021-2025

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*Established in 1988, Centre for international health (CIH) at the University of Bergen (UiB) is an interfaculty centre for research and training within the field of global health. In 2021/2022 we had a major discussion about our future, and ended up with this text:*

## VISION

To provide excellent global health research and training contributing to improved health and equitable societies.

## MISSION

CIH works in partnerships with research institutions in low- and middle-income countries (LMICs) and aims to:

- Coordinate and conduct high quality, relevant and innovative global health research
- Teach, supervise, and facilitate learning in global health
- Disseminate research and engage in policy discussions on pertinent global health issues

## GLOBAL HEALTH

In accordance with Sustainable Development Goal 3 (SDG3), the CIH defines global health as an area of research, education and practice aimed at improving health and achieving health equity for all people, with a particular focus on public health problems in LMICs. The field of global health promotes interdisciplinary collaboration and involves disciplines both within and beyond the health sciences. For CIH, mutual post-graduate capacity strengthening and genuine partnerships with

implementing institutions are integrated and essential features of global health, in compliance with SDG4 and SDG17.

## PARTNERSHIP

CIH aims to strengthen capacity in global health through research and training in partnership with academic institutions and other research entities in LMICs. An important prerequisite for establishing mutual and sustainable research partnerships is that projects are conceived, developed and implemented as a genuine collaborative effort.

## SCIENTIFIC PRIORITIES

CIH commits to the SDG agenda with particular emphasis on health in LMIC. The main priorities are to work on the 'unfinished agenda'; the leading social, environmental, and political determinants of the burden of disease in LMIC, including maternal, adolescent and child health, infectious diseases, and nutrition/growth. Priority will also be given to non-communicable diseases and injuries, in particular chronic respiratory diseases and mental health, as well as to research on health policy, health systems and health consequences of migration, climate changes and inequality.

CIH will prioritize research on implementation and interventions that cost-effectively and equitably can improve health.

# COUNTRY PRESENTATIONS

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*Centre for International Health has many partner institutions, in many countries. We work with capacity building of different kinds, in research as well as education. Here we present our activities in three of the countries: Tanzania, Rwanda, and Democratic Republic of Congo. The countries are chosen randomly, next year we will present others.*

## TANZANIA



Over the years, many researchers at CIH have had the pleasure of working together with partners in Tanzania. CIH started up due to an active policy from the University of Bergen; to work on global challenges and to work together with partners in relevant countries. The University Director at this time, Magne Lerheim, had been working in Tanzania. Clearly, this inspired several researchers to establish contacts and partnerships in this country. Still, researchers at CIH have projects with Tanzanian partners:

### **Safeworkers**

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In this project, Professors Bente E. Moen and Magne Bråtveit aim to develop a Virtual school of Occupational Health with their partners in Tanzania and Ethiopia. The project is titled *Safe Work Conditions by Innovative Research and Education*.

Researchers at Muhimbili University of Health and Allied Sciences (MUHAS), Tanzania, Addis Ababa University (AAU), Ethiopia, and

University of Bergen (UiB) have collaborated in various research and capacity-building activities within Occupational Health since 2003.



©G. Koldal. Book launch in the Safeworkers project with A. Tungu, B. Moen, I. P. Nyarubeli and acting Dept Leader for IGS, Prof Bjarne Robberstad

The project groups now want to expand their efforts, cooperating more closely with governmental organizations, disseminating results more widely, having a greater societal impact, and influencing policy development in these 2 countries and other countries in Sub-Saharan Africa (SSA). This is a NORHED-2, Norad-funded project.

### **Strengthen Health Economics**

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The NORPART project *Strengthen Health Economics Capacity at Bergen and MUHAS* is run by Bjarne Robberstad in cooperation with Amani Thomas Mori. This project is a collaboration between CIH and the Department of Development Studies at MUHAS, Tanzania.

Network partner institutions include the Ministry of Health, Community Development,



Gender, Elderly and Children in Tanzania and the University of Oslo (UiO) in Norway.

The main focus of the project is to strengthen institutional capacity and the education programme in Health Economics at the Muhimbili University of Health and Allied Sciences (MUHAS), Tanzania. It is also to develop a well-established collaboration between MUHAS and the University of Bergen (UiB).

The project activities consist of reviewing and harmonization of curricula, development of MSc. Health Policy majoring in Health Economics programme; development of a joint course; joint teaching and supervision of students including guest lecturing. Mobility of 30 students travelling between Norway and Tanzania is possible. The project started in 2017 and was delayed due to the pandemic. It will likely continue the whole 2023.

### **MATRASET- Facilitating «real life» implementation of MDSR**

We have received funding from the Research Council of Norway for a new project: *MATRASET - Reporting in context: An interdisciplinary initiative to strengthen maternal health services and surveillance in Ethiopia and Tanzania.*

The Maternal Death Surveillance and Response System (MDSR) is a tool to enhance maternal mortality reporting and corrective action.

The aim of the project is to strengthen reporting in maternal mortality surveillance systems to ensure relevant response in the contexts of Ethiopia and Tanzania.



©A. Blystad. Matriset workshop in Dar es Salaam

The project is carried out by an interdisciplinary research group from the social sciences, law, and medicine. Through a combination of ethnography, survey, and analysis of register data, we investigate the relationship between observed and reported clinical practice. The project leader is Professor Astrid Blystad.



©A. Blystad. Matriset meeting in Dar es Salaam.

## Rwanda



CIH does not have a long history of activities in Rwanda.

However, in 2018 Theogene Habumugisha from Rwanda was granted a PhD scholarship to work on the topic '*Nutrition policy and food systems recommendations anchored in the Sustainable Development Goals and Responsible Research and Innovation frameworks: Is that a possibility?*'

He started his work in the COVID-19 pandemic, performing his fieldwork in Rwanda. He is a part of the scientific group at CIH.

His supervisors are from 3 faculties: Faculty of Medicine, Faculty of Mathematics and Natural Sciences and Faculty of Humanities.

### Water ESSENCE

is a NORHED-2, Norad-funded project that work with activities on co-development and improvement of skills, knowledge, tools, and other resources of the partner universities needed for the education of higher quality graduates of water-related study programs, conducting more and higher quality water research, and increasing their inclusiveness.

Several partners are involved, and among these we find the University of Rwanda. Tore Sætersdal at CIH/Global Challenges priority area at UiB is the project leader.

The project has 2 Norwegian partners and 8 African partners.

### iCARTA – Institutionalization of Advanced research training in Africa

From CIH, Thorkild Tylleskär and Anne Berit Kolmannskog, participated in a meeting in the CARTA -University of Rwanda partnership forum, held in Rwanda in September this year.

CARTA stands for Consortium for Advanced Research Training in Africa. The University of Rwanda (UR) is one of CARTA's eight African Partner Universities. To date, there are 24 CARTA fellows at UR (8 graduates and 16 in progress).

CIH manages a project related to CARTA, called iCARTA – Institutionalization of Advanced research training in Africa.



©T. Tylleskär. Campus at University of Rwanda

This is a NORHED-2, Norad-funded project. UiB has partnered with CARTA network to build an African academy capable of leading world-class, multidisciplinary research to improve public and population health. The Consortium aims to produce high-quality early career researchers (ECRs).

Also, this year, the Nordic ambassador of Rwanda, Dr. Diane Gashumba visited CIH, and we enjoyed her company for one day.





©T. Tylleskär. Carta meeting in Rwanda



©T. Tylleskär. Visit by the Nordic ambassador of Rwanda, Dr Diane Gashumba to CIH



## Democratic Republic of Congo - DRC



The Centre for International Health has run projects in DRC for many years, and several researchers at CIH are familiar with this country. At present we have two projects here, one for research and one for mobility:

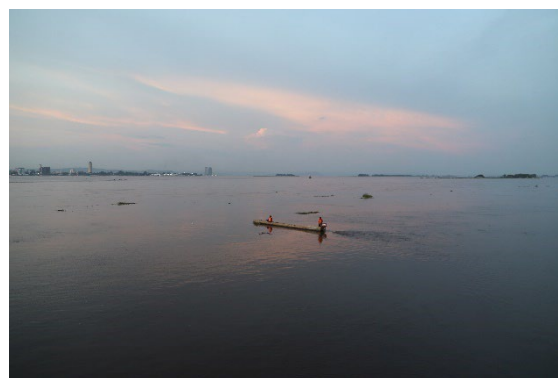
### **Developing a cadre of African nutrition scholars and leaders to address nutrition disorders and influence nutrition policy (GROWNUT-2)**

The GROWNUT-2 project is a NORHED-2 project, funded by Norad. The project aims to address the shortage of research capacity to inform the development of locally relevant, evidence-based policies in two low-income countries, using nutrition as the vehicle for capacity building.

The project will develop and support postgraduate training in nutritional epidemiology in Tanzania and DRC, building on the success of a previous project: GROWNUT-1. project in DRC. The plan is to develop a blended learning package in nutritional epidemiology that will be implemented in the two sites. It will also involve post-graduate student research linked to a demand-driven locally relevant research agenda in each country. The project partnership is strongly linked to the Ministry of

Health in both countries. The goal is to support and develop African nutrition researchers as well as a locally produced body of high-quality research to inform nutrition policy in Tanzania and DRC.

Three CIH Professors will be involved in GROWNUT II, professors Anne Hatløy, Ingunn Engebretsen, and Thorkild Tylleskär. The project will be implemented in Tanzania and the Democratic Republic of Congo and will have collaborating partners from South Africa.



©Thorkild Tylleskär. Zambezi river, Kinshasa, DRC.

### **Enhanced partnership for research capacity of next generation of nutrition researchers in Norway, Tanzania and DRC (ENTREPENUT)**

This is a NORPART project, funded by the Ministry of Education and Research and the Ministry of Foreign Affairs. NORPART shall enhance the quality of higher education in Norway and selected partner countries in the Global South through academic cooperation and mutual student mobility.

The overall aim of the EPRENUT program is to enhance partnership for research capacity of next generation of nutrition researchers in Norway, Tanzania, and DRC through implementing students' mobility, strengthened curricula and teaching, and dissemination of research output for national and global sustainable development.

In 2022, it was difficult to organize meetings in DRC, due to the COVID-19 pandemic as well as due to general restrictions in obtaining

VISA. It was also difficult for people from DRC to obtain VISA for travels abroad. Therefore, the communication was mainly digital in 2022,

and the photos are from a meeting in January 2023. Finally, the researchers could meet!



©Thorkild Tylleskär. Grownut meeting in Kinshasa.

# CISMAC

## A centre of excellence located at CIH

The Centre for Intervention Science in Maternal and Child Health (CISMAC) conducts research to improve maternal, new-born and child health (MNCH) in low and middle-income countries. We evaluate promising interventions and help translate research findings into policy and practice. CISMAC is a collaborative research consortium with partners in Norway, Ethiopia, India, Nepal, Pakistan, South Africa, Uganda, and Zambia, and works closely with the World Health Organization (WHO).

CISMAC was established in 2013 and its portfolio of studies is expanding. Currently, we have 24 studies that span a variety of priority MNCH topics and are implemented in Asia and Sub-Saharan Africa.

CISMAC covers a wide range of interventions addressing important global health challenges, from BCG vaccination of infants born to HIV-infected mothers, impact of community-initiated Kangaroo Mother Care (ci-KMC) in

low-birth-weight babies, improving postnatal care, to studies on economic support and empowerment of adolescent girls to reduce the risk of teenage childbearing and fostering entrepreneurship.

CISMAC studies address important knowledge gaps and provide high quality scientific information which policy makers can use to make evidence-based decisions.

CISMAC has been funded by the Norwegian Research Council (RCN) since 2013, ongoing for 10 years. CISMAC will continue with a no-cost extension until August 2025.

The CISMAC Director is Professor Halvor Sommerfelt.

For more information, please see CISMACs website [www.uib.no/en/cismac](http://www.uib.no/en/cismac)



©Ricky Heggheim.  
Students & lecturers attending Conceptual Foundations of Epidemiologic Study Design and Analysis course, hosted by CISMAC in Bergen.



# NETWORK INCLUDING UKRAINE

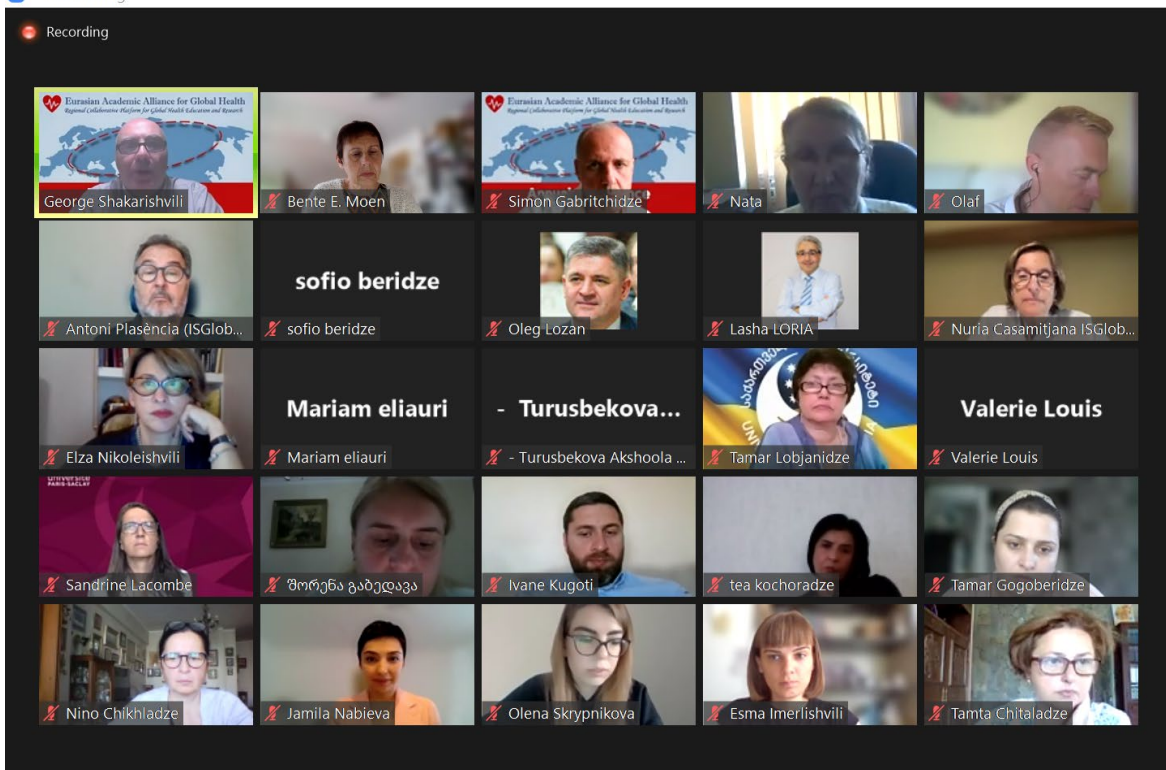


Eastern Europe - Central Asia region: Georgia, Ukraine, and Kazakhstan, to build capacity and integrate global health into their academic programme. We have established the Eurasian Academic Alliance for Global Health (EAAGH) and had an online meeting in September 2022 in this alliance.

CIH is taking part in an ERASMUS+ project titled 'Building Academic Capacity in Global Health in the Eastern Europe-Central Asia Region', with the abbreviation BACE. The aim of this project is to enable 3 countries in the

Despite the war, partners from Ukraine participated. People in Kiev told us about how it is to teach global health in a city with frequent bombing. We are very impressed by their ability to cope with a very difficult situation and to continue teaching global health – no matter what happens.

Zoom Meeting



©Bente E. Moen. Online meeting in the Eurasian Academic Alliance for Global Health

# CIH PROJECT LIST 2022

*Our main projects are listed here.*

<b>Project Title</b>	<b>Duration</b>	<b>Project Leader</b>	<b>Funding Source</b>	<b>Collaboration with</b>
Centre of Excellence: Centre for Intervention Science in Maternal and Child Health (CISMAC)	2013-2023	Sommerfelt, Halvor	NFR/GLOBVAC	Africa and Asia
Strengthen Health Economics Capacity at Bergen and MUHAS	2017-2021	Robberstad, Bjarne	HKDIR	Africa
Strengthening Health Systems and health care implementation through Network based graduate training and research education in Zambia	2017-2024	Sandøy, Ingvild Fossgard	HKDIR	Africa
Prevention of mother-to-child transmission of HIV-1: program evaluation and innovative rescue intervention integrated in the expanded program of immunization	2018-2023	Tylleskär, Thorkild	EU-EDCTP	Africa, Europe
A cluster randomised trial to evaluate the effectiveness of household alcohol-based handrub for the prevention of sepsis, diarrhoea, and pneumonia in Ugandan infants. (BabyGel)	2019-2023	Tylleskär, Thorkild	EU-EDCTP	Africa, Europe
Dihydroartemisinin-Piperaquine for the Chemoprevention of Malaria in Children with Sickle Cell Anaemia in eastern and southern Africa	2019-2023	Robberstad, Bjarne	NFR/GLOBVAC	Africa
TREAT Child Alcohol Use Disorder (C-AUD) in Eastern Uganda: Screening, diagnostics, risk factors and handling of children drinking alcohol	2019-2024	Engebretsen, Ingunn	NFR	Africa
Integrating and decentralising diabetes and hypertension services in Africa — INTE-AFRICA	2019-2024	Hinderaker, Sven Gudmund	EU	Africa
TREAT-Interact - Implementing a user involved education- and health system interactive task shifting approach for child mental health promotion in Uganda	2021-2026	Engebretsen, Ingunn	NFR	Africa
Malarial Impact on Neurobehavioral Development (MIND)	2019-2025	Robberstad, Bjarne	USA	Africa
Partnership for Poverty and Sustainable Development Studies 2	2020-2021	Sættersdal, Tore	HKDIR	Africa
Collaborative and Knowledge-building Project SARS-CoV-2 infection and COVID-19 in women and their infants in Kampala, Uganda	2020-2022	Sommerfelt, Halvor	NFR	Africa

Building Academic Capacity in Global Health in the Eastern Europe-Central Asia Region/ BACE	2020-2024	Moen, Bente E.	ERASMUS+	Eastern Europe-Central Asia
Preventing and delaying the development of diabetes in Africa: a randomised placebo-controlled double-blind phase III trial of metformin in HIV-infected persons with pre-d (META-Trial)	2020-2024	Hinderaker, Sven Gudmund	EU	Africa
Visionary nature-based actions for health, wellbeing & resilience in cities (VARCITIES)	2020-2025	Johannessen, Ane	EU	Europe
Life-GAP	2020-2025	Johannessen, Ane	EU	Europe
Determination of adequate tuberculosis regimen in adults and adolescents hospitalised with HIV-associated severe immune suppression - DATURA	2020-2025	Hinderaker, Sven Gudmund	EU	Africa and Asia
Strengthening Agency & Learning across Health Systems in the Americas	2020-2026	Ruano, Ana Lorena	Norad	South America
SAFEWORKERS - Safe Work Conditions by Innovative Research and Education	2020-2026	Moen, Bente E.	Norad	Africa
Water ESSENCE Africa – creating synergy to meet the global challenges	2020-2026	Sætersdal, Tore	Norad	Africa
iCARTA - Institutionalisation of Advanced Research Training in Africa	2020-2026	Tylleskär, Thorkild	Norad	Africa
South Ethiopia Network of Universities in Public Health II (SENUPH II)	2020-2026	Lindtjørn, Bernt	Norad	Africa
GROWNUT 2 - Growing Partnership for Higher Education and Research in Nutritional Epidemiology in DR Congo and Tanzania	2020-2026	Hatløy, Anne	Norad	Africa
Phase I/II study to determine Safety and Pharmacokinetics of subcutaneous administration of potent and broad anti HIV-1 neutralizing monoclonal antibodies, given to HIV-1 exposed neonates and infants. (PedMab)	2020-2026	Tylleskär, Thorkild	EU-EDCTP	Africa, Europe
Work skills for life: a work readiness programme to prepare the transition from secondary school	2021-2024	Sandøy, Ingvild Fossgard	NFR	Africa
Enhanced partnership for research capacity of next generation of nutrition researchers in Norway, Tanzania and DR-Congo (EPRENUT)	2021-2026	Hatløy, Anne	HKDir	Africa
Better health through partnership in higher education and bilateral student mobility: collaboration between Pakistan and Norway	2021-2026	Mustafa, Tehmina	HKDir	Asia



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Improving Health Professional Education and capacity in Experimental epidemiology – Bergen-Makerere (HePEd)	2021- 2026	Sommerfelt, Halvor	HKDIR	Africa
Reporting in context: An interdisciplinary initiative to strengthen maternal health services and surveillance in Ethiopia and Tanzania.	2021- 2026	Blystad, Astrid	NFR	Africa
Randomized clinical trial assessing balloon occlusion of the aorta for controlling life-threatening postpartum bleeding in Africa (REBOA)	2021- 2026	Tylleskär, Thorkild	NFR	Africa
Improving implementation and operation of a One Health platform  to combat rabies in Malawi	2022- 2025	Ruano, Ana Lorena	NFR	Africa
Pesticides and exposures from traditional textile industry associated with own and offspring health in indigenous Guatemalan communities	2022- 2027	Svanes, Cecilie	NFR	South America
Effectiveness of peer counseling in addressing psychological distress and exposure to violence among LGBTI population in Nepal	2022- 2027	Sandøy, Ingvild Fossgard	NFR	Africa
Toxic exposures in early life, growth, and development: An exposome study in Nepal	2022- 2027	Strand, Tor Arne	NFR	Asia

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# COLLABORATING PARTNERS

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*CIH strives for development of partnerships with colleagues in low- and middle-income countries, as this is a part of our mission. Below you can see the list over partners we have active cooperation/ project with. In addition to these important institutions, we also have cooperation with institutions that can help us in the research we do, adding extra competence.*

## Norway

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- Christian Michelsens Institutt – CMI
- FHI – Norwegian Institute of Public Health
- Helse Bergen
- Helse Stavanger
- NHH – Norwegian School of Economics
- NMBU – Norwegian University of Life Sciences Norway
- NTNU – Norwegian University of Science and Technology
- Sykehuset Innlandet Hospital Trust
- UiO – University of Oslo
- UiT – The Arctic University

## Europe

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- Centre Hospitalier Universitaire de Nantes, France
- University of Exeter, UK
- Imperial College, London, UK
- Institut National de la Santé et de la Recherche Médicale (INSERM), France
- Institut de Recherche pour le Développement (IRD), France
- ISGlobal, Spain
- Karolinska Institutet, Sweden
- Landspítali University Hospital, Iceland
- Liverpool University, UK
- London School of Hygiene and Tropical Medicine, UK
- Ludwig Maximilian University, Munich, Germany
- Montpellier University, France
- Ospedale San Raffaele SRL (OSR), Italy
- Ruprecht-Karls-University, Heidelberg, Germany
- University of Amsterdam, the Netherlands
- University of Bristol, UK
- University of Copenhagen, Denmark
- University of Padova, Italy
- University of Southampton, UK
- University of Sussex, UK

- University of Verona, Italy
- Uppsala University, Sweden
- Swiss TPH, Switzerland
- Tartu University Hospital, Finland

## Africa

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- Addis Ababa University, Ethiopia
- African Population and Health Research Center (APHRC), Kenya
- Arba Minch University, Ethiopia
- Busitema University, Uganda
- Centre Muraz, Burkina Faso
- Dilla University, Ethiopia
- Ethiopian Public Health Institute, Ethiopia
- Hawassa University, Ethiopia
- Kamuzu University of Health Sciences (KUHeS), Malawi
- Kawempe National Referral Hospital, Uganda
- Machakos University, Kenya
- Makerere University, Uganda
- Mbale Regional Referral Hospital, Uganda
- Mbarara University of Science and Technology (MUST), Uganda
- Muhimbili University of Health and Applied Sciences, Muhas, Tanzania
- Queen Elisabeth Central Hospital in Malawi
- Stellenbosch University, South Africa
- South African Medical Research Council (SAMRC), South Africa
- University of Dar-es-Salaam, Tanzania
- University for Development Studies, Ghana
- University of Ghana, Ghana
- University of Juba, South Sudan
- University of Kinshasa, DRC
- University of Kwazulu-Natal, South Africa
- University of Malawi College of Medicine, Malawi
- University of Nairobi, Kenya
- University of Rwanda, Rwanda

- University of the Witwatersrand (Wits), South Africa
- University of Zambia (UNZA), School of Medicine, Zambia
- UNZA School of Medicine, University of Zambia, Zambia
- Uganda Virus Research Institute, Uganda
- Wits Health Consortium (PTY) LTD (WHC), South Africa

- Lahore University of Management Sciences, Pakistan
- National University of Kyiv-Mohyla Academy, Ukraine
- Palestinian National Institute of Public Health, Palestine
- Shota Rustaveli State University, Georgia
- Society for Applied Studies, India
- Translational Health Science and Technology Institute (THSTI), India
- Tribhuvan University, Nepal
- University of Georgia, Georgia

**Asia**

- Aga Khan University, Pakistan
- Al-Farabi Kazakh National University, (Kazakhstan)
- Ao Meditsinskiy Universitet Astana, Kazakhstan
- International Centre for Diarrhoeal Disease Research, Bangladesh
- Institute of Global Health, Georgia
- Ivane Javakhishvili Tbilisi State University, Georgia
- Ivan Horbachevsky Ternopil National Medical University of The Ministry of Health of Ukraine, Ukraine

**Americas**

- Centro De Estudios De Estado Y Sociedad – Cedes, Argentina
- Harvard T.H. Chan School of Public Health, USA
- Pontificia Universidad Javeriana, Colombia

**Oceania**

- University of Melbourne, Australia



©Google My Maps. The map shows countries where we have collaborating partners.



# CIH – CISMACH RESEARCH SCHOOL

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The activity in the research school this year has mainly been online. A total of 11 webinars have been conducted this year. These normally take place once a month, the first Wednesday 12:30-14:00. The topics of these seminars have mainly been on maternal and child health. A great deal of the webinars has been led by young researchers and we strive to facilitate a stimulating and engaging place to share, teach and learn high quality science. The webinars are popular, and several of them have attracted more than 50 participants.

In addition, the research school has organized the Midway evaluation for seven PhD candidates, all were online this year. The seminars revealed that the pandemic has caused delay for many projects, and several of our PhD candidates had to ask for extension of their PhD period due to this.

## **Nordic Global Health Talks**

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Our PhD candidates have also been invited to *Nordic Global Health Talks*. This is a monthly webinar series about global health from the Nordic universities. The first Thursday of each

month at 10.00 am CET, we can join on Zoom and listen to an interesting global health lecture from a Nordic university. It is free and open to everyone interested in knowing more about Nordic global health research, education, and collaborative projects. Nordic Global Health Talks is organised by Nordic Network on Global Health that CIH is a part of.

## **Norwegian Research School of Global Health**

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The PhD candidates have also had the possibility to be a member of the Norwegian Research School of Global Health (NRSRGH). This is a research school which has been funded by the Research Council of Norway, so funding for travels and accommodation has been granted. The NRSRGH has organized several events in 2022, for instance courses in Systematic review and meta-analysis, Innovation in Global Health, Scientific Writing and Advanced Epidemiology. Our PhD candidates have appreciated these possibilities and participated in these events.

## Doctoral degrees awarded in 2022:

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**Marianne Lønnebotn**



*Photo: Jørgen Barth, UiB*

**Parental body size and offspring lung health: preparing for parenthood already in childhood?**

Dissertation: 21.01.2022

**Supervisors:** Professor Francisco Gomez Real, Professor Shyamali Dharmage and Researcher Jorunn Kirkeleit

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**Usha Dhingra**



*Photo: Sunil Sazawal*

**Chlorhexidine cleansing of the umbilical cord stump and risk of omphalitis and neonatal death**

Dissertation: 31.03.2022

**Supervisors:** Professor Sunil Sazawal at Johns Hopkins University in Baltimore, USA and Professor Halvor Sommerfelt at the Centre for International Health, University of Bergen (UiB), Associate Professor Victoria Nankabirwa (Makerere University and UiB) and Professor David Murdoch (University of Otago)

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**Alemselam Zebdewos Orsango\***



*Photo: Private*

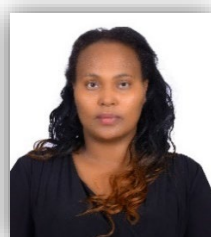
**Childhood undernutrition and the potential of amaranth for reducing anaemia in southern Ethiopia**

Dissertation: 10.05.2022

**Supervisors:** Professor Ingunn Marie S. Engebretsen, Centre for International Health, UiB, Professor Emeritus Bernt Lindtjørn, UiB and Hawassa University and Post Doctor Eskindir Loha Shumbullo at CMI, Bergen.

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**Debitu Nane Satato\***



*Photo: Abiy S. Gebre*

**Development of local-ingredients-based supplementary food and evaluation of its comparability to standard corn-soy blend plus in treating moderate acute malnutrition among children aged 6 to 59 months in Wolaita, Southern Ethiopia**

Dissertation: 16.06.2022

**Supervisors:** Associate Professor Anne Hatløy and Professor Emeritus Bernt Lindtjørn

---

**Synnøve Næss**



**Maternal and infant iodine nutrition and thyroid function**

Dissertation: 24.06.2022

**Supervisors:** Ph.D. Maria Wik Markhus, Ph.D. Inger Aakre and Professor Tor A. Strand.

*Photo: Paul S. Amundsen Institute of Marine Research*

**Mehretu Belayneh Dinage\***



**Child and maternal malnutrition: A cohort study from a drought-prone area in southern Ethiopia**

Dissertation: 18.10.2022

**Supervisors:** Professor Emeritus Bernt Lindtjørn, UiB and Hawassa University and Associate Professor Eskindir Loha Shumbullo at CMI, Bergen.

*Photo: Private*

**Hiwot Hailu Amare\***



**Some major school health problems in southern Ethiopia: Malnutrition, parasite infections, and skin problems**

Dissertation: 02.12.2022

**Supervisor:** Professor Emeritus Bernt Lindtjørn

*Photo: Simret Hailu, Meba*

**Hiwot Hailu Amare\***



**Primary health care delivery in a Sidama community undergoing demographic transition**

Dissertation: 14.12.2022

**Supervisors:** Professor Emeritus Bernt Lindtjørn, UiB and Hawassa University and Dr Mesay Hailu, Hawassa University

*Photo: Biruk Asnake/JAH Pictures*

\* Joint degree, Hawassa University and University of Bergen

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## PhD Candidates enrolled 2022

*These are the PhD candidates at CIH who are enrolled at the PhD-programme at UiB. Some of the candidates below belong to research groups/faculties affiliated to CIH, this is marked out. Most of the Scientific Staff at CIH also supervise PhD Candidates at partner institutions. These are not registered at UiB and are not included in this list.*

Name	Project title	Supervisor	Co-supervisor(s)	Country
<b>Aarsland, Tonje Eiane</b>	Iodine status and thyroid function in Norwegian infants and their mothers	Strand, Tor A.	Bakken, Kjersti Sletten	Norway
<b>Almdal, Kerstin</b>	Provision of care in the context of maternal mortality in Mwanza: Referral related decision making, and barriers and facilitators related to underreporting.	Melberg, Andrea	Moland, Karen Marie, Sandøy, Ingvild Fossgard, Said, Ali	Denmark
<b>Banti, Abiot Bezabeh</b>	Spatial analysis of tuberculosis clustering: population based prospective follow up study in Dale, Sidama Zone	Hinderaker, Sven Gudmund	Winje, Brita A.	Ethiopia
<b>Cervantes, Juan Pablo Lopez</b>	Using or quitting oral moist tobacco? Impact of oral moist tobacco on the respiratory health of a multinational cohort and their offspring	Svanes, Cecilie	Bertelsen, Randi Jacobsen, Schlünssen, Vivi, Accordini, Simone	Mexico
<b>Chamani, Amisa Tindamanyile</b>	Cost, cost-effectiveness and budget impact analysis of using dihydroartemisinin-piperaquine with or without azithromycin as intermittent preventive treatment to improve pregnancy outcomes in Northern Tanzania.	Robberstad, Bjarne ETØK	Mori, Amani, Anaeli, Amani	Tanzania
<b>Chandyo, Manjeswori Ulak</b>	Vitamin B12 Supplementation on Growth and Neurodevelopment among Nepalese Children	Kvestad, Ingrid	Strand, Tor A., Basnet, Sudha, Schwinger, Catherine	Nepal
<b>Chebet, Martin</b>	Aetiology of stillbirths in Eastern Uganda	Tylleskär, Thorkild	Engebretsen, Ingunn Marie S., Mukunya, David, Weeks, Andrew	Uganda
<b>Contractor, Sana Quais</b>	Claiming Citizenship: A Study of How Adolescent Muslim Girls and Young Women Negotiate Sexual and Reproductive Health (SRH) Rights in Urban India	Ruano, Ana Lorena	Van Belle, Sara, Namibar, Devaki	India
<b>Grønningen, Erlend</b>	Improving diagnosis of extrapulmonary tuberculosis by implementation of a sensitive and specific test in routine tuberculosis settings in Tanzania	Mustafa, Tehmina	Sviland, Lisbeth, Mfinanga, Sayoki	Norway
<b>Habumugisha, Theogene</b>	Protein intake and nutrition status of older adults: Perspective from Sustainable Dietary Consumption	Engebretsen, Ingunn Marie S.	Måren, Inger Elisabeth, Dierkes, Jutta, Kaiser, Carl Walter Matthias	Rwanda
<b>Hassan, Shoaib</b>	Adoption of accurate diagnostics for extra-pulmonary tuberculosis patients and its impact on reducing poverty level and inequity – Extended Cost-Effectiveness Analysis	Mustafa, Tehmina	Robberstad, Bjarne, Norheim, Ole Fritjof	Pakistan



<b>Hegdahl, Hanne Keyser</b>	Young women's sexual and reproductive health behaviour, beliefs and risks in a sub-Saharan African setting	Sandøy, Ingvild Fossgard	Musonda, Patrick	Norway
<b>Helle, Ole Magnus Bjorgaas</b>	Improving diagnosis and management of extra pulmonary tuberculosis in low-resource settings by implementation of a new antigen detection test	Mustafa, Tehmina	Purohit, Manju Raj	Norway
<b>Husum, Tori</b>	Advanced Interventions to Improve Maternal Outcome after Post Post-partum haemorrhage in Uganda	Tylleskär, Thorkild	Engjom, Hilde, Byamugisha, Josaphat	Noway
<b>Jeganathan, Sathya</b>	Low Birth Weight Infant: Continuum of care in the community in South India	Kvestad, Ingrid	Strand, Tor A., Schwinger, Catherine	India
<b>Kampata, Linda</b>	Adolescent childbearing and contraceptive use in Zambia: trends, socio-economic patterns, and equity effects and cost benefits of an empowerment programme	Sandøy, Ingvild Fossgard	Fylkesnes, Knut	Zambia
<b>Kühl, Melf-Jakob</b>	Turning Knowledge into Action under the Global Agenda 2030: the potential of implementation research to inform scaling-up of disease prevention in children	Robberstad, Bjarne ETØK	Engebretsen, Ingunn Marie S.	Germany
<b>Langat, Agnes</b>	The loss of HIV exposed infants in care and its contribution to continued HIV transmission in Kenya.	Tylleskär, Thorkild	John-Stewart, Grace	Kenya
<b>Lelo, Patricia Vangu Matondo</b>	Neurodevelopment and cognition of children affected by sickle cell anaemia in the Democratic Republic of Congo	Kashala-Abotnes, Espérance	Okitundo, Daniel, Sam, David Lackland, Boivin, Michael Joseph	Democratic Republic of Congo
<b>Mudenda, Mweetwa</b>	Predictors of school enrolment, attendance and drop-out among adolescent girls in rural Zambia	Sandøy, Ingvild Fossgard	Musonda, Patric	Zambia
<b>Mwogi, Thomas Sang</b>	Evaluation of Laboratory Workflow Process of a National Referral Hospital and Application of Relevant Health Informatics Solutions	Were, Martin (Moi University)	Tylleskär, Thorkild	Kenya
<b>Nakazwe, Chola</b>	Assessing the changing HIV Epidemiology in Zambia: Using a National Population Based Survey Conducted in Zambia	Sandøy, Ingvild Fossgard	Fylkesnes, Knut	Zambia
<b>Namakula, Rhoda</b>	Examining adaptive and innate immunity in HIV exposed uninfected children	Hanevik, Kurt	Cose, Stephen, Nankabirwa, Victoria	Uganda
<b>Namugga, Olive</b>	Severe illness among infants in Uganda	Nankabirwa, Victoria	Sommerfelt, Halvor	Uganda
<b>Ndolumingu, Faustin Kitetele</b>	Mental health and HIV among children in the Democratic Republic of Congo	Kashala-Abotnes, Espérance	Tylleskär, Thorkild, Lelo, Mananga	Democratic Republic of Congo
<b>Ngoie, Leonard Banza</b>	Hip fractures in Malawi. Reported outcomes after non-operative treatment. Estimate of prevalence of musculoskeletal impairment in the Malawi population	Young, Sven	Gjertsen, Jan Erik, Hallan, Geir, Mkandawire, Nyengo	Malawi

<b>Ochanda, Perez Nicholas</b>	Assessing Economic consequences and Health related quality of life in Ugandan children and adults surviving with severe malaria	Robberstad, Bjarne ETØK	Aakvik, Arild, Bangirana, Paul Dibyadyuti, Datta	Uganda
<b>Okalany, Akwi Noela Regina</b>	Congenital cytomegalovirus infection in Eastern Uganda	Engebretsen, Ingunn M. S.	Mukunya, David, Burgoine, Kathy, Olupot-Olupot, Peter	Uganda
<b>Okello, Francis</b>	Exploring Women's Preferences for Alcohol Based Hand Rub and Assessment of Implementation Fidelity Within the BabyGel Trial	Engebretsen, Ingunn M. S.	Tylleskär, Thorkild, Olupot-Olupot, Peter, Antonieta, Medina-Lara	
<b>Pervin, Jesmin</b>	Mobile phone communication strategies and antenatal care utilization. A mixed-method study in rural Matlab, Bangladesh	Friberg, Ingrid	Frøen, Jahn Frederik, Rahman, Anisur	Bangladesh
<b>Randjelovic, Kristina</b>	Environmental exposure to iodine uptake inhibitors and the risk of thyroid disease in pregnancy	Bakken, Kjersti Sletten	Strand, Tor A., Korevaar, Tim	Norway
<b>Riaz, Syeda Mariam</b>	Novel insights into pathogenesis of human post-primary tuberculosis from archival material of pre-antibiotic era, 1931-47	Mustafa, Tehmina	Sviland, Lisbet, Helgeland, Lars	Pakistan
<b>Roro, Meselech</b>	Malaria in pregnancy: A community-based cohort	Lindtjørn, Bernt	Amente, Wakgari Deressa, Moen, Bente E.	Ethiopia
<b>Rukundo, Enock</b>	The design and implementation of a growth-monitoring digital health intervention to improve the identification and management of malnutrition in Rwanda	Frøen, Jahn Frederik	Blom-Bakke, Kjersti Mørkrid, Tumusiime, David	Rwanda
<b>Rutagwera, Gatsinzi David</b>	Cell- associated viral reservoirs and the risk of HIV-1 transmission through breast milk	Tylleskär, Torkild	Molés, Jean-Pierre, Tuaillon, Edouard	Uganda
<b>Shrestha, Jasmin</b>	Prevalence and molecular Epidemiology of Rotavirus and coinfections with other enteric viruses in a long-term cohort in children from a large community in Nepal	Andreassen, Åshild	Strand, Tor A., Deminski, Jennifer Lynn	Nepal
<b>Shrestha, Sanjaya</b>	Astro virus and Non-Polio Enterovirus carriage and association with diarrhoea in a long-term cohort study in children from a large community in Nepal	Strand, Tor A.	Dudman, Susanne, Vainio, Kirsti, Andreassen, Åshild	Nepal
<b>Sinsamala, Robin Mzati</b>	Association between inter-generational air pollution/ greenness exposures and lung health. The Life-GAP project	Johannessen, Ane	Bertelsen, Randi Jacobsen, Marcon, Alessandro	Malawi
<b>Skoftedalen, Kaja</b>	Contextualising Maternal Death	Lange, Siri	Sambaiga, Richard, Blystad, Astrid, Haukanes, Haldis	Norway
<b>Skylstad, Vilde</b>	TREAT C-AUD: Childhood alcohol and substance use in Uganda and its associated somatic and psychosocial risk factors and outcomes	Engebretsen, Ingunn Marie S.	Skar, Ane-Marthe Solheim	Norway

<b>Solvik, Beate Stokke</b>	The effect of fatty fish on vitamin status and indices of inflammation and metabolic illness: a randomized controlled trial in preschool children	Strand, Tor A.	Øyen, Jannike, Kvestad, Ingrid	Norway
<b>Tahseen, Sabira</b>	Use of a robust immunochemistry-based test in routine clinical laboratory practice for improving diagnosis of extra-pulmonary tuberculosis: experience from Pakistan.	Mustafa, Tehmina	Sviland, Lisbet, Safdar, Nauman	Pakistan
<b>Tumuhamyé, Josephine</b>	Etiology of umbilical infection, severe bacterial illness, antibiotic resistance and associated risk factors in newborns in Lira district, Northern Uganda	Nankabirwa, Victoria	Sommerfelt, Halvor, Bwanga, Freddie, Tumwine, James	Uganda
<b>UI Haq, Mahboob</b>	Passive Versus Active case finding for tuberculosis through community-based contact screening in Pakistan: yield and treatment outcomes	Hinderaker, Sven Gudmund	Razia, Fatima	Pakistan
<b>Upadhyay, Ravi</b>	Nutritional intervention during infancy to improve neurodevelopmental outcomes in resource constrained settings	Strand, Tor A.	Hysing, Mari, Bhandari, Nita, Taneja, Sunita	India
<b>Uwera, Thauoussi</b>	A study of design and implementation of digital health intervention to improve childhood immunization program in Rwanda	Frøen, Jahn Frederik	Venkateswaran, Mahima, Tumusiime, David	Rwanda
<b>Wali, Ahmad</b>	Social and Health Inequalities Network (SHINe) a not for profit, non-government organization, Pakistan	Mustafa, Tehmina	Safdar, Nauman	Pakistan
<b>Yaqoob, Aashifa</b>	The Burden and Management of Child TB in Pakistan	Hinderaker, Sven Gudmund	Razia, Fatima	Pakistan
<b>Xu, Shanshan</b>	Associations between lifespan air pollution and greenness exposures and lung health. The Life-GAP project	Johannessen, Ane	Bertelsen, Randi Jacobsen	China
<b>Ødegård, Christine Henriksen</b>	Medication free treatment in psychosis: The meaning of choice for people with psychosis - A qualitative exploration	Engebreetsen, Ingunn Marie S.	Veseth, Marius, Stige Brynjulf	Norway

## Joint PhD degree candidates with Hawassa University, Ethiopia

Name	Project title	Supervisor	Co-supervisor(s)
<b>Abdo, Abdella Amano</b>	Evaluating Maternal and Neonatal delivery outcome at Hawassa University Referral Hospital, Hawassa, South Ethiopia.	Hinderaker, Sven Gudmund	Tekle, Achemyelelesh/ Lindtjørn, Bernt
<b>Alako, Samrawit Hailu</b>	Common childhood illness and health service utilization in Wonago district, south Ethiopia. A community-based cohort study	Lindtjørn, Bernt	Johansson, Kjell A./ Astatiike, Ayalew
<b>Alemayehu, Sewhareg Belay</b>	Intimate partner violence during pregnancy: Its effect on neonatal outcomes and assessment of knowledge and attitudes of Health care professionals towards intimate partner violence in Sidama zone, south Ethiopia	Hinderaker, Sven Gudmund	Emmelin, Maria/ Tefera, Ayelew Astakie
<b>Kabalo, Bereket Yohannes</b>	Seasonal variation in food insecurity and undernutrition in rural Wolaita in Southwest Ethiopia	Lindtjørn, Bernt	Johansson, Kjell/Loha, Eskindir
<b>Kea, Aschenaki Zerihun</b>	Maternal mortality in Sidama zone	Hinderaker, Sven Gudmund	Lindtjørn, Bernt/ Tekle, Achamyelech
<b>Kebede, Tsigereda Behailu</b>	Dietary practices and household food insecurity and the association with the nutritional status of women and young children in rural kebeles of Dale woreda, Southern Ethiopia	Engebreetsen, Ingunn Marie S.	Bilal, Selamawit
<b>Kumma, Wondimagegn Paulos</b>	Diet and nutrition in Wolaita, Southern Ethiopia	Loha, Eskindir	Moen, Bente E.

## Joint PhD degree candidate with Makerere University, Uganda

Name	Project title	Supervisor	Co-supervisor(s)
<b>Odongkara, Beatrice</b>	Preterm birth in Lira district: incidence, risk factors, outcomes and effects of HBB training and video on health workers' knowledge and skills attainment and retention.	Tylleskär, Thorkild	Tumwine, James K./ Nankabirwa, Victoria



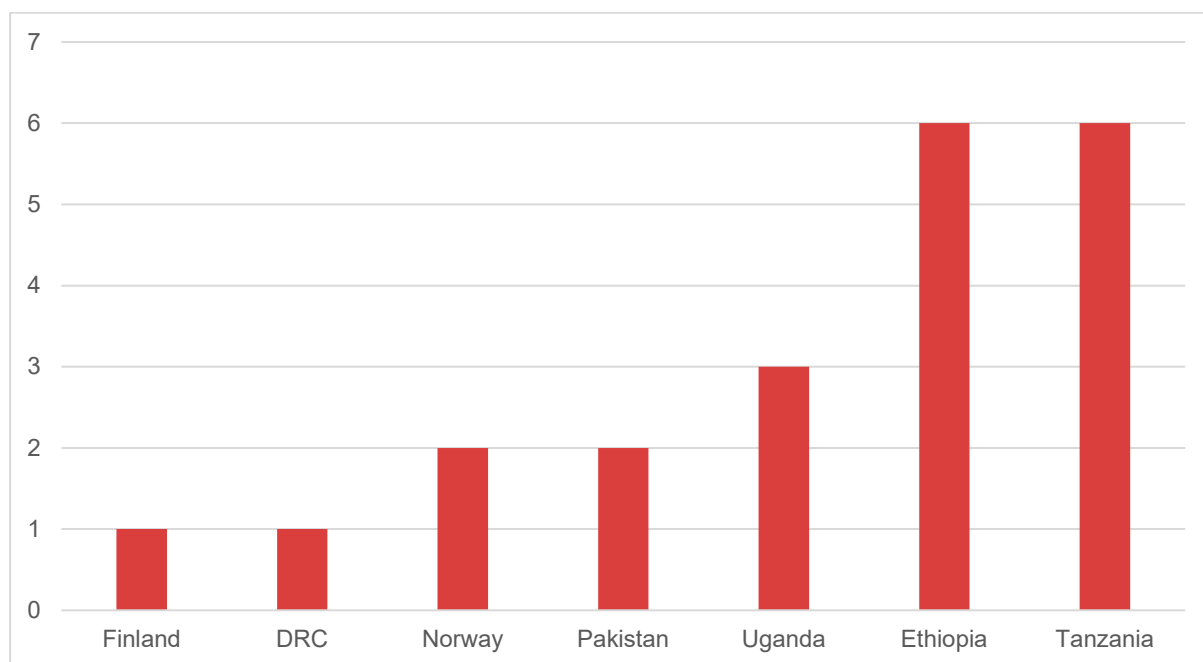
## Activities not counted at UiB

CIH performs several activities that are highly appreciated by the University of Bergen, as they belong to the activities counted for UiB production and reporting back to the Ministry of Education and Research.

However, CIH also performs many teaching activities in other countries, beside the research projects. Many of these activities are not registered at UiB, they are just mentioned in project reports. For instance, CIH supervises 21 PhD candidates not enrolled at UiB, as you may see in the figure below. This kind of supervision is performed by Karen M. Moland, Astrid Blystad, Tehmina Mustafa, Ingvild Fossgard Sandøy, Bente E. Moen, Ingunn M. S. Engebretsen and Halvor Sommerfelt.

In addition, the CIH staff supervise 5 master students enrolled at other universities, and ten of the CIH researchers report substantial teaching in courses at other institutions. Also, mentoring of post doctors is performed by CIH staff in many countries.

The work mentioned here is very important for our partner institutions, and it is admirable that the CIH staff can contribute to provide our colleagues and students in other countries with their knowledge and expertise. We wish the Ministry and UiB leadership also would put weight on this type of work.



Number of PhD candidates enrolled at other universities than UiB, supervised by staff at CIH in 2022.

# EDUCATION AT CIH

## Master programme in global health

The programme has been revised and changed on several aspects this year. In the spring semester we had several hybrid courses (with students both online and on campus), which was a great technical challenge for us all. However, both teachers and students discussed the challenges and improved the activities when it was necessary. We also had a higher number of students (39) compared to normal years, and it was challenging to find supervisors for all.

CIH was helped by several researchers in our surrounding environment, and we are very

grateful for this support. In the autumn, 20 new students started up. We had on campus teaching only, and both students and teachers enjoyed being physically present again. In the autumn methodological course, we experienced a high number of failures at the exam (30%), so we are considering establishing a preparatory course for the next group of students and prolong the course period with one week. We experience a good communication between students and teachers, and we are all eager to improve the study programme.

## Completed Master degrees

Name	Title of Thesis	Supervisor(s)	Country of origin (applied from)
<b>Abza, Mihiret Wake</b>	Cost-Effectiveness Analysis of Surgical Repair for Obstetric Fistula in Ethiopia	Johansson, Kjell Arne Haaland, Øystein Ariansen	Ethiopia
<b>Aljiafiri, Asia A.M.</b>	Optimization of Immunohistochemistry Technique for Low-Income Countries: A Study on Oral Cancer	Johannessen, Anne Christine Osman, Tarig Al-Hadi Parajuli, Himalaya	Sudan
<b>Boyle, Lydia D.</b>	Promotors and Barriers to the Implementation of Assistive Technology and Telecare for People with Dementia and their Caregivers: A systematic review of the literature	Husebø, Bettina Vislapuu, Maarja	USA
<b>Brox, Camilla</b>	Evaluation of Antiemetic Treatment of Women Hospitalised for Hyperemesis Gravidarum at Muhimbili National Hospital, Dar Es Salaam, Tanzania	Holst, Lone	Norway
<b>Faria Gaifem, Francisca Manuela</b>	Perceptions on children's daily experiences as refugees: a qualitative study about South Sudanese children in a refugee settlement in Uganda	Sam, David Lackland	Portugal
<b>Gyawali, Sanjay</b>	Association of Tuberculosis Infection with Asthma and Respiratory Symptoms in a Nordic-Baltic Multicentre Population Study	Shigdel, Rajesh Svanes, Cecilie	Nepal
<b>Hirpesa, Genet Mulugeta</b>	Ophthalmology Care in Ethiopia: A Health Economic Evaluation	Johansson, Kjell Arne Haaland, Øystein Ariansen	Ethiopia
<b>Hubbers, Jessica</b>	A health economic evaluation of neurological interventions targeting epilepsy, migraine, dementia and Parkinson's disease in Ethiopia,	Johansson, Kjell Arne Haaland, Øystein Ariansen	The Netherlands

	Malawi, and the United Republic of Tanzania		
<b>Ilic, Melissa Alejandra</b>	The Impacts of the Global Gag Rule on Quality Care: A Scoping Review	Blystad, Astrid Moland, Karen Marie	
<b>Jan, Zarak Tariq</b>	Multiplex Immunofluorescence Studies on T cell Subsets in Oral Squamous Cell Carcinoma of the Tongue	Nginamau, Elisabeth Sivy Osman, Tarig Al-Hadi	Pakistan
<b>Matellanes Nascimento, Raquel</b>	Coping with everyday life after a stroke: A qualitative case study exploring the experiences of survivors and their caregivers in São Paulo, Brazil	Van den Bergh, Graziella	Brazil
<b>López Cervantes, Juan Pablo</b>	Asthma, Respiratory Symptoms and Lung Function Across Age Groups in an Indigenous Mayan Population in Guatemala, and Relation to Work in the Traditional Textile Industry: A Cross-Sectional Pilot Study, Lake Atitlan Lung Health Study	Svanes, Cecilie Ruano, Ana Lorena	Mexico
<b>Mukendi, Deborah Kabulo</b>	OST-Patients Financial Situation and Mental Health	Fadnes, Lars Thore Carlsen, Siv-Elin Leirvåg	Norway
<b>Nnko, Asnath James</b>	Comparing Prevalence of Alcohol Use Among Children and Adolescents Aged 6 to 13 Years in Rural vs Urban Areas: A Systematic Review and Meta Analyses	Engebretsen, Ingunn M. S.	Tanzania
<b>Normann, Beatrice</b>	Identification of Novel <i>Mycobacterium Tuberculosis</i> Proteins Expressed <i>In Vivo</i> in Human Pulmonary Tuberculosis Lesions: Meta-proteomics of the autopsy material from pre-antibiotic era, 1931 - 1947	Mustafa, Tehmina	Norway
<b>Roy, Medha</b>	Association Between Dietary Diversity and Food Expenditure in Malawi: A Cross-Sectional Study, Based on Nationwide Household Survey 2017	Hatløy, Anne	Bangladesh
<b>Shammi, Fahima Akter</b>	Mental Health of Bangladeshi Covid-19 Frontline Doctors Who Worked with Minimum Resources: A cross-sectional mixed method study	Sam, David Lackland	Bangladesh
<b>Sinha, Nivedita</b>	Global Challenges Related to Use of Dental Amalgam: Can Health Complaints Be Reduced After Removal of Amalgam Restorations? Analysis Of Data from a Norwegian Prospective Cohort Study Comprising Experimental Treatment	Björkman, Lars	India

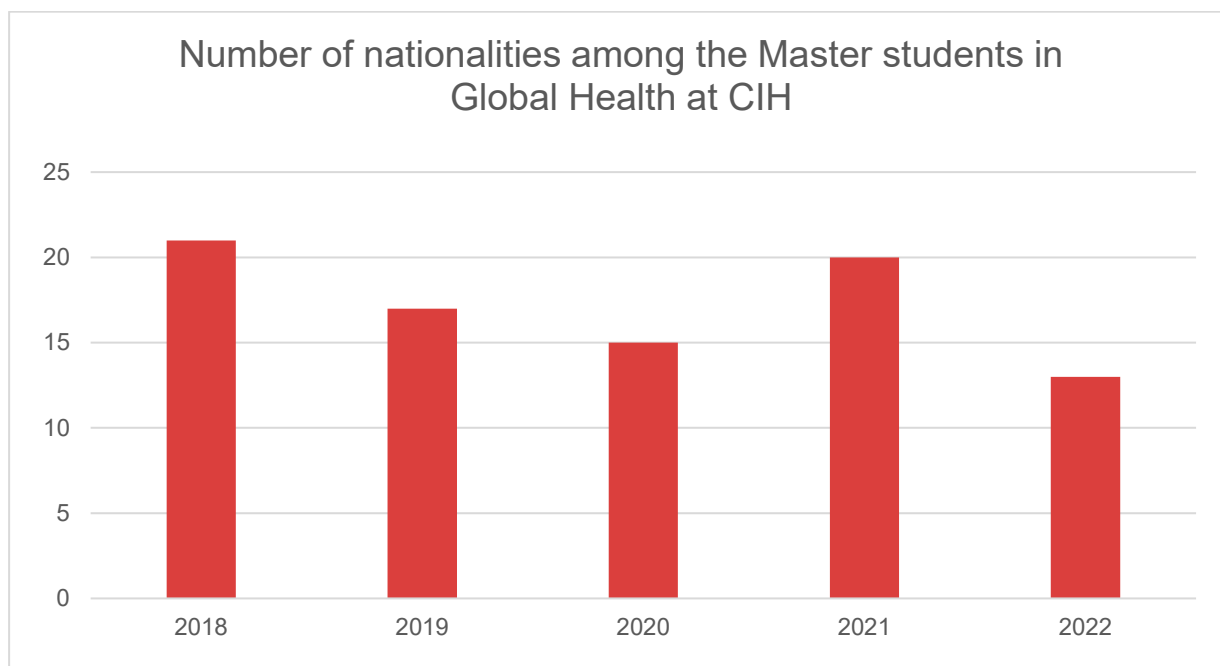
## Enrolled master students 2022

Name	Supervisors	Country of origin (applied from)
Abou Hanian, Marina	Bakken, Kjersti Sletten	Armenia
Agata, Gemma Kwamboka	Diaz, Esperanza	Kenya
Baskota, Swechhya	Svanes, Cecilie	Nepal
Doppler, Grace Lillian	Ruano, Ana Lorena	USA
Duran, Rafael	Svanes, Cecilie	Peru
Eissa, Tarteel Abdallah Adam	Hatløy, Anne	Sudan
Hole, Maren Nielsen	Mæland, Silje	Norway
Islam, Md Ragibul	Diaz, Esperanza	Bangladesh
Jerez Pietropaolo, Fernando Jose	Ruano, Ana Lorena, Svanes, Cecilie	Guatemala
Kimaryo, Christina	Hatløy, Anne	Tanzania
Massawe, Josephine Efraim	Hatløy, Anne	Tanzania
Mubanga, Malumbe Paswe	Sandøy, Ingvild Fossgard	Zambia
Munishi, Castory Gabriel	Norheim, Ole Frithjof, Kaarbøe, Oddvar	Tanzania
Ndumwa, Harrieth Peter	Norheim, Ole Frithjof, Kaarbøe, Oddvar	Tanzania
Njenge, Nancy	Hatløy, Anne	Zimbabwe
Pruitt, Justin Kent	Hjørleifsson, Stefan	USA
Sinha, Shila	Bakken, Kjersti Sletten	Bangladesh
Tipu, Jahid Hasan	Hanevik, Kurt	Bangladesh
Zarubina, Valeriia	Engebretsen, Ingunn M. S.	Ukraine

## Enrolled master students 2021

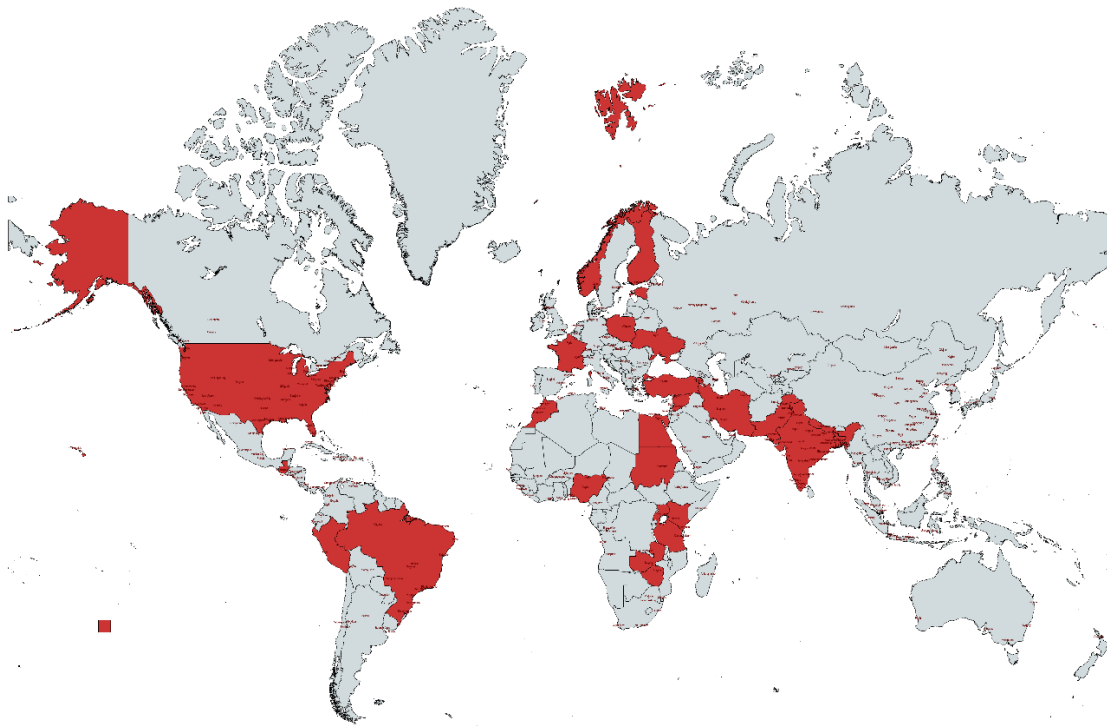
Name	Supervisors	Country of origin (applied from)
Abbah, Achenyo Peace	Johannessen, Ane	Nigeria (Norway)
Abdallah, Daudi Hashim	Kaarbøe, Oddvar	Tanzania
Adari, Sai Harish	Diaz, Esperanza, Kumar, Bernadette	India
Ajekigbe, Ifeaaanu	Rosario, Carmeliza Soares Da Costa, Diaz, Esperanza	Nigeria
Aslan, Aryen Hanim	Sam, David Lackland	Turkey
Cardoso Couto De Azevedo, Ingrid	Bhopal, Anand, Norheim, Ole Frithjof	Brazil (Norway)
Carpi, Chloë	Svanes, Cecilie, Ruano, Ana Lorena, Makvandi-Nejad, Shokouh, Cervantes, Juan Pablo Lopez	France
Eid, Muhammad	Mofrad, Asieh, Romanowska, Julia	Syria
El Jellas, Khadija (on leave)		Morocco (Norway)
Elmalih, Vironia	Engebretsen, Ingunn M. S., Habumugisha, Theogene	Egypt
Grünberg, Agnes	Moland, Karen Marie, Hinderaker, Sven Gudmund	Estonia
Hossain, Aljim	Bertelsen, Randi J., Åstrøm Anne	Bangladesh (Norway)
Ilyas, Anum	Bærøe, Kristine, Taylor, Lucinda Manda	USA
John, Alina	Sandøy, Ingvild Fossgard	Norway

Koivuluoma, Venla Tuulia	Sandøy, Ingild Fossgard	Finland
Maharjan, Jasmine	Karmacharya, Biraj, Johansson, Kjell Arne	Nepal
Maheen, Ferdousi	Kaur, Gunjeet, Mæland, Silje	Bangladesh
Mallange, Grace	Kaarbøe, Oddvar	Tanzania
Marjan, Sharika	Liang, Kristina Xiao	Bangladesh
Miciul, Agnieszka	Moland, Karen Marie	Poland
Nahar, Kamrun	Mohamed-Ahmed, Samih, Al-Sharabi, Niyaz	Bangladesh
Nakyonyi, Maria Gorretti	Åstrøm, Anne, Birungi, Nancy	Uganda
Nazarihaghipashaki, Mahshad	Moens, Bente E.	Iran
Neupane, Susmita	Sam, David Lackland	Nepal (Norway)
Nisha, Sadia Nusrat	Holst, Lone	Bangladesh (Norway)
Olsen, Ingrid Østebø	Rosendahl-Riise, Hanne, Engbretsen, Ingunn M. S., Aakre, Inger	Norway
Pandey, Bhaskar (on leave)		Nepal (Norway)
Pandit, Sagar	Karmacharya, Biraj, Johansson, Kjell Arne	Nepal
Rajeshwar	Mustafa, Tehmina	Pakistan
Salonen, Marika Helena	Hatløy, Anne, Kjellevoid, Marian, Andersen, Peter	Finland (Norway)
Shakya, Ronas	Rajesh Shigdel	Nepal
Suchodolska, Urszula Izabela	Aarli, Bernt, Mustafa, Tehmina	Poland (Norway)
Sultan, Nasreen (on leave)	Mustafa, Tehmina	India (Norway)
Tabassum, Anika	Hanevik, Kurt, Vedøy, Oda Barth, Steinsland, Hans	Bangladesh (Norway)
Tembo, Penias	Sandøy, Ingild Fossgard, Michelo, Charles	Zambia
Tripathi, Puja	Sam, David Lackland	Nepal
Urquizo Gonzalez, Mayra Elizabeth	van den Bergh, Graziella, Sandøy, Ingild Fossgard	Peru (Norway)
Veettikkat, Vijil	Mustafa, Tehmina, Heldal, Einar	India
Yangzom, Tsering	Liang, Kristina Xiao	India



*The number of nationalities of the master students in global health at CIH is large. We can receive 25 students every year, and here you see the number of nationalities of the new students every year, starting with 2018 when the quota scholarship system had ended. The international students are self-financed.*





©mapchart. The map shows which countries our masters students enrolled in 2021 and 2022 come from.

## Research track students

Medical students at UiB may join a research track, and the students below are connected to CIH

Student	Project	Supervisors
<b>Herstad, Kornelia</b>	Maternal Death Reporting and Reviews in Tanzania	Blystad, Astrid, Moland, Karen Marie
<b>Thorsdalen, Heidi</b>	Am I too dirty to touch a baby? – Midwives and household perspectives of using alcohol-based hand rub at home before touching a neonate in Eastern Uganda: A qualitative study	Engebretsen, Ingunn Marie S., Tylleskär, Thorkild
<b>Valeckaite, Neda</b>	Health education on mental health and substance use in schools in Eastern Uganda. Perceptions from teachers and adolescent scholars	Engebretsen, Ingunn Marie S., Babirye, Juliet

## Medical students with thesis

Medical students with completed thesis in 2022. They had supervisors from CIH.

Student	Title	Supervisors
<b>Kolnes, Maria</b>	En oversikt over forebyggende tiltak rettet mot omskjæring/kjønnslemlestelse av jenter og kvinner	Sandøy, Ingvild Fossgard
<b>Shrivastava, Sofie</b>	The effect of economic support, alone or in combination with a community intervention, on childbirth among adolescent orphans in rural Zambia	Sandøy, Ingvild Fossgard, Hegdahl, Hanne
<b>Grønnæss, Tuva</b>	I hvilken grad påvirker multikulturelle Doulaer fødsel og amming blant kvinner med minoritetsbakgrunn i vestlige vertsland?	Moland, Karen Marie

## Global Health course - Medical students

All medical students at UiB take a one-week long course in Global Health (semester 10). In 2022, CIH ran this course 2 times: May and December.



In addition to this short course, the medical

students have the option of taking an elective Global Health course in the autumn. The course has a theoretical part and a 2-months field visit to a low-income country.

In 2022, 12 of UiB's medical students attended. Nine visited Christian Medical College Vellore in India, and three visited Haydom Lutheran Hospital in Tanzania. The three students had originally planned to go to Uganda, but due to an Ebola outbreak there, the plan was changed.

We are very grateful to our partner institutions for receiving our students. It is of major importance.

*©B. E. Moen Professor Sven Gudmund Hinderaker is teaching global health to medical students.*

# PEOPLE

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## Administrative staff

*CIH is a part of Department of Global Public Health and Primary Health Care (IGS). The two share a joint administration with one overall Head of Administration. Many in the administration split their work between our two locations (Årstadveien 17 and 21).*

Members of the core administration for Centre for International Health are listed below:

### Leadership:

Moen, Bente E.	Centre Director/Professor at CIH
Rørtveit, Guri	Head of Department, IGS
Robberstad, Bjarne	Head of Department, IG (substitute for Rørtveit)
Strømsnes, Ingvild	Head of Administration, IGS

### Core administration at Centre for International Health:

Bartle, Elinor	Administration
Forshaw, Linda Karin	Academic affairs, Master
Koldal, Gunhild	Administration
Kolmannskog, Anne Berit	Project administration CIH
Straume, Ane	Project administration CISMACH
Gundersen, Daniel	PhD coordinator - works at CIH and IGS
Hove, Elisabeth	Project economist - works at CIH and IGS
Tveit, Terese Togstad	Project economist - works at CIH and IGS
Williams, Olga Shangina	Project economist- works at CIH and IGS, until August 2022

In addition, Kjell Rune Sæle and Siv Johnsen Eggereide have helped with economic issues, Kirsti Nordstrand with education and training issues, and Eli Selback with personnel issues.

## Scientific staff

The list below shows the scientific personnel who are formally affiliated with the Centre, with a few exceptions (explained in brackets).

### Permanently employed:

Blystad, Astrid	Professor (50% CIH, 50% HELSEVIT)
Engebretsen, Ingunn M.S.	Professor
Hatløy, Anne	Associate Professor (40%)
Hinderaker, Sven Gudmund	Professor (80%)
Moen, Bente Elisabeth	Professor
Moland, Karen Marie	Professor
Mustafa, Tehmina	Professor (50%)
Norheim, Ole Frithjof	Professor (ETØK)
Robberstad, Bjarne	Professor (ETØK)
Ruano, Ana Lorena	Researcher (project)

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Sandøy, Ingvild Fossgard	Professor
Sommerfelt, Halvor	Professor
Steinsland, Hans	Researcher
Svanes, Cecilie	Professor (50%)
Tylleskär, Thorkild	Professor
Sam, David Lackland	Professor (50% CIH, employed at the Faculty of Psychology)

**Temporarily employed:**

Aakre, Inger	Associate Professor (30%) from August 2022
Almdal, Kerstin	PhD Candidate
Bakken, Kjersti Sletten	Post-Doctoral Fellow
Basnet, Sudha	Post-Doctoral Fellow (50%)
Chandyo, Manjeswori Ulak	PhD Candidate
Choudhary, Tarun Shankar	PhD Candidate
Frøen, Jahn Fredrik	Professor II (20%)
Habumugisha, Theogene	PhD Candidate
Hollund, Bjørg Eli	Associate Professor (20%)
Husum, Tori	PhD Candidate
Johannessen, Ane	Associate Professor (50% CIH, 50% TVEPS)
Kirkeleit, Jorunn	Researcher (80%) until 31 October 2022
Kühl, Melf-Jakob	Researcher until 31 March 2022
Cervantes, Juan Pablo López	PhD Candidate
Shumbullo, Eskindir Loha	Post-Doctoral Fellow
Martines, Jose Carlos	Researcher, Scientific Coordinator (80%)
Mudenda, Mweetwa	PhD Candidate
Namakula, Rhoda	PhD Candidate
Namugga, Olive	PhD Candidate
Nankabirwa, Victoria	Post-Doctoral Fellow
Riaz, Syeda Mariam	PhD Candidate
Schwinger, Catherine	Researcher until end of June 2022
Sinsamala, Robin Mzati	PhD Candidate
Skylstad, Vilde	PhD Candidate
Skoftedalen, Kaja	PhD Candidate
Strand, Tor A.	Professor
Venkateswaran, Mahima	Post-Doctoral Fellow
Xu, Shanshan	PhD Candidate

**Professor emeritus:**

Fylkesnes, Knut Martin	Professor emeritus
Kvåle, Gunnar	Professor emeritus
Lindtjørn, Bernt	Professor emeritus
Nilsen, Rune	Professor emeritus
Bjorvatn, Bjarne	Professor emeritus

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## CIH Board and Academic Advisory Group

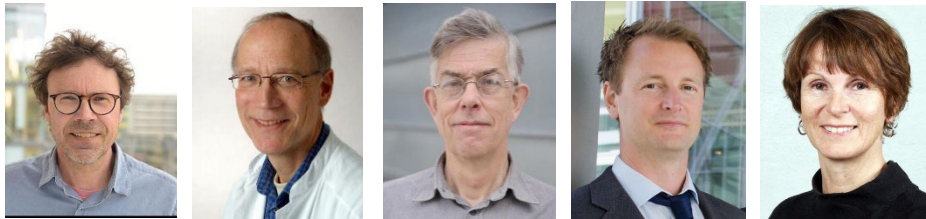
*The CIH Board includes the Dean and all the Department leaders at the Faculty of Medicine, University of Bergen. The Board had two meetings in 2022.*

### CIH Board Members

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Per Bakke (Dean), Christian A. Vedeler (K1), Asgeir Bårdsen (IKO), Frode Steingrimsen Berven (IBM) and Guri Rørtveit (IGS). Pål Rasmus Njølstad (K2) was the Board Leader, helped by Silke Appel (K2).

CIH appointed an Academic Advisory Group in 2019. The group met with CIH staff online in April 2022, and visited Bergen in December 2022. In December, they participated in a strategy meeting with CIH staff and the CIH Board.



\*Asgeir Bårdsen not pictured

### Academic Advisory Group Members

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Professor Andrea Winkler, University of Oslo

Director Ottar Mæstad, Chr Michelsens Institutt

Professor Susannah Mayhew, Dep. of Global Health and Development, London School of Hygiene and Tropical Medicine

Senior economist Jeremy Addison Lauer, University of Strathclyde, UK

Professor Flemming Konradsen, University of Copenhagen, Denmark

Professor Thorkild Tylleskär, Centre for International Health, University of Bergen

The Centre Director takes this opportunity to express her thanks to the Board and Academic Advisory Group for the many important and interesting discussions they have shared with us. These have been very inspiring and helpful for CIH.





## Associated people

*This list includes people who have helped CIH with teaching or activities not otherwise mentioned in this annual report. People working in our projects in partner countries are not mentioned. If you think your name should be here and is not, we are sorry! Please tell us and we will correct it for next year.*

Niyaz **Al-Sharabi**, IKO, UIB  
 Peter **Andersen**, UIB  
 Randi J **Bertelsen**, K2, UIB  
 Graziella Van Den **Bergh**, HVL  
 Anand **Bhopal**, IGS, UIB  
 Nancy **Birungi**, IKO, UIB  
 Gunnar **Bjune**, Oslo  
 Lars **Björkman**, IKO, UIB  
 Bjørn **Blomberg**, K2, UIB  
 Håkon **Bolkan**, NTNU  
 Rebekka Cox **Brokstad**, K2, UIB  
 Magne **Bråtveit**, IGS, UIB  
 Kristine **Bærøe**, IGS, UIB  
 Asgeir **Bårdsen**, IKO, UIB  
 Siv-Elin Leirvåg **Carlsen**, Daniela **Costea**, K1, UIB  
 Jon Wigum **Dahl**, HUS  
 Esperanza **Diaz**, IGS, UIB  
 Jutta **Dierkes**, K1, UIB  
 Maria **Emmelin**, Lund University  
 Lars Tore **Fadnes**, IGS, UIB  
 Eva **Gerdts**, K2, UiB  
 Siri **Gloppen**, CMI/UIB  
 Harleen **Grewal**, K2, UIB  
 Geir **Halland**, HUS  
 Kurt **Hanevik**, K2, UIB  
 Peter **Hangoma**, CMI & BCEPS, UIB  
 Haldis **Haukanes**, Faculty of Psychology, UIB  
 Einar **Heldal**, FHI  
 Sigrun **Henjum**, OsloMet  
 Stefan **Hjørleifsson**, IGS, UiB  
 Lone **Holst**, IGS, UIB  
 Bettina **Husebø**, IGS, UIB  
 Mari **Hysing**, NORCE  
 Tane Holm **Høisæter**, Comm. Division, UIB  
 Øystein **Haaland**, IGS, UIB  
 Frode **Ims**, Comm. Division, UIB

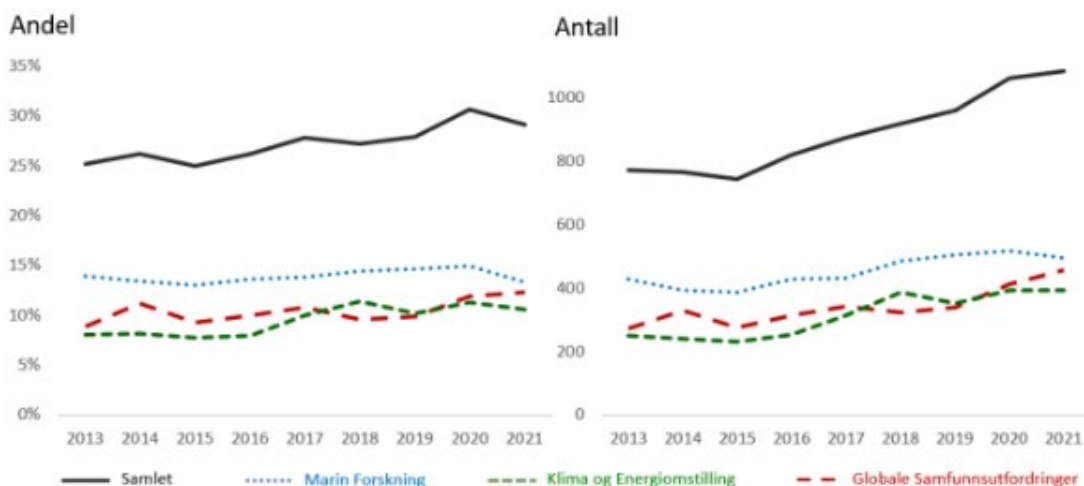
Frode Fadnes **Jacobsen**, HVL  
 Anne Christine **Johannessen**, K1, UIB  
 Kjell Arne **Johansson**, IGS, UIB  
 Biraj **Karmacharya**, Dhulikhel Hospital, Nepal  
 Gunjeet **Kaur**, IGS, UIB  
 Marian **Kjellevoid**, Inst of Marine Research  
 Bernadette **Kumar**, FHI  
 Ingrid **Kvestad**, NORCE  
 Oddvar **Kaarbøe**, IGS, UIB  
 Siri **Lange**, HEMIL, UIB/CMI  
 Nina **Langeland**, K2, UIB  
 Kristina Xiao **Liang**, K1, UIB  
 Rolv Terje **Lie**, IGS, UIB  
 Shokouh **Makvandi-Nejad**, N Veterinary Inst  
 Eivind **Meland**, IGS, UIB  
 Charles **Michelo**, University of Zambia  
 Ingrid **Miljeteig**, IGS, UIB  
 Asieh **Mofrad**, IGS, UIB  
 Samih **Mohamed-Ahmed**, IKO, UIB  
 Silje **Mæland**, IGS, UIB  
 Ottar **Mæstad**, CMI  
 Kamal **Mustafa**, IKO, UIB  
 Ole Jacob **Møllerløyen**, IGS, UIB  
 Kristine **Mørch**, K2, UIB  
 Elwalid Fadul **Nasir**, IKO, UIB  
 Elisabeth Sivy **Nginamau**, HUS  
 Øystein **Evjen Olsen**, SUS  
 Tarig Al-Hadi **Osman**, IKO, UIB  
 Hans **Overgaard**, NMBU  
 Himalaya **Parajuli**, UIB  
 Pål **Punternvoll**, NORCE  
 Lise **Rakner**, UIB

Francisco Gomez **Real**, HUS  
 Ole Bjørn **Rekdal**, Emeritus, HVL  
 Trond **Riise**, IGS, UIB  
 Julia **Romanowska**, IGS, UIB  
 Carmeliza Soares da Costa **Rosario**, CMI  
 Hanne **Rosendahl-Riise**, K1, UIB  
 Rajesh **Shigdel**, K2, UIB  
 Rolf **Skjærven**, IGS, UIB  
 Marion **Solheim**, MED, UIB  
 Johanne **Sundby**, UIO  
 Lisbet **Sviland**, HUS/K1, UIB  
 Eirik **Søfteland**, IGS, UIB  
 Tore **Sætersdal**, Global Challenges, UIB  
 Gro **Tjalvin**, IGS, UIB  
 Eirik Joakim **Tranvåg**, IGS, UIB  
 Bertil **Tungodden**, NHH/CMI  
 Oda Barth **Vedøy**, K2, UIB  
 Maarja **Vislapuu**, IGS, UIB  
 Sandya S **Visweswariah**, Indian Inst of Science  
 Magnus **Vollset**, IGS, UIB  
 Sven **Young**, HUS/Malawi  
 Irina **Wagner**, KIT, Nederland  
 Harald **Wiker**, K2, UIB  
 Ketil Joachim **Ødegaard**, UIB/HUS  
 Bernt **Aarli**, K2, UIB  
 Arild **Aakvik**, UIB  
 Audun **Aase**, FHI  
 Henriette Sinding **Aasen**, JUS, UIB  
 Anne Nordrehaug **Åstrøm**, IKO, UIB

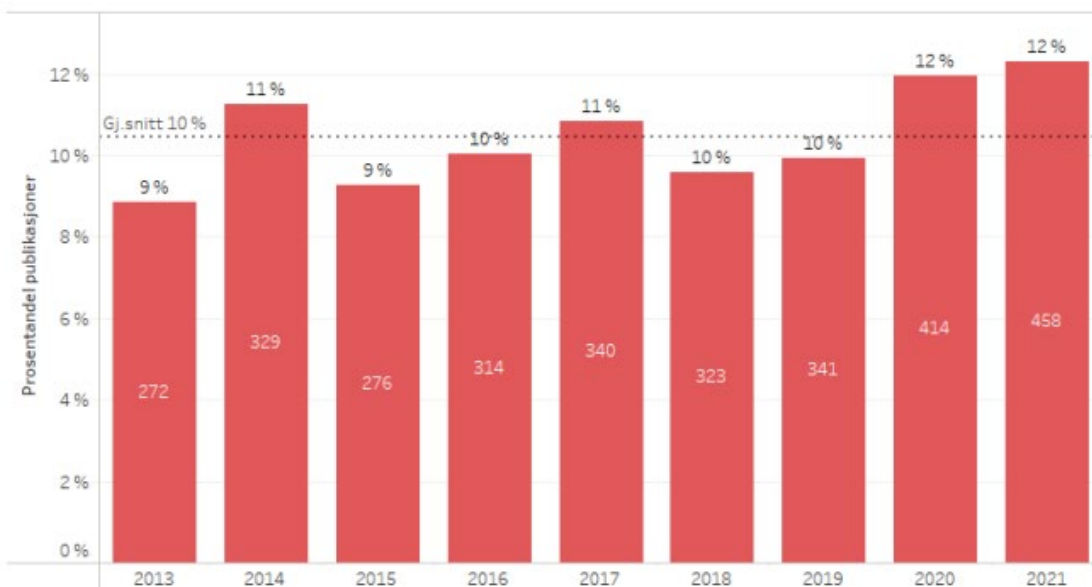
## Bibliometric – Global Challenges

One of the 3 priority areas at University of Bergen is Global Challenges. The other 2 are Climate and Marine activity. The activity at CIH belongs to Global Challenges. Senior Academic Librarian Caroline Armitage at the UiB library has studied the publications from this priority area the past years and made the report 'Bibliometrisk kartlegging av satsningsområdene ved UiB, November 2022'. A few of these figures are reported here, the ones most interesting for Global Health publications.

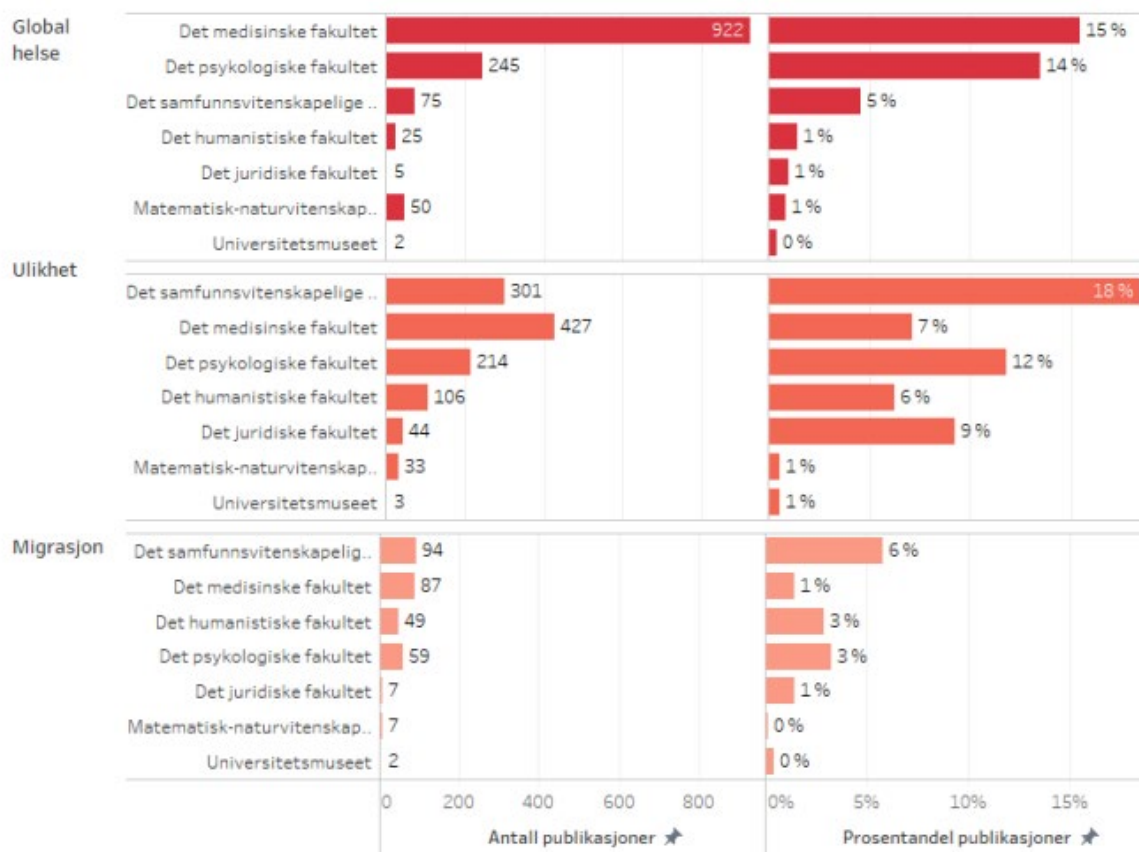
At UiB, 29% of the publications come from the 3 priority areas, as shown in the figure below.



The publication trend shows that the percentage of publications at UiB on Global Challenges is between 9 to 12, with a small increase.



Global challenges developed a list of search terms for the library, focused on the three topics Migration, global health and inequality. See the report for details on the search terms. The percentage of publications from global health was 66, from inequality 57 and 15 from migration. A large number of publications within global health comes from the Faculty of Medicine, as you see from the figure below.



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# VISITS AND CELEBRATIONS

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*Glimpses from our celebrations, summer- and winter parties and visits throughout the year.*

## **60-year celebrations!**

Congratulations Cecilie Svanes, Sven Gudmund Hinderaker and Linda K. Forshaw.



*Photos: T. Tylleskär, B. E. Moen. From top: celebration for Cecilie Svanes, for Sven Gudmund Hinderaker and for Linda K. Forshaw. CIH marked each of their 60-year birthdays.*





*Photos: T. Tylleskär, B. E. Moen  
From top left, visit from Nord University, Levanger and India, visit from Colombia and Argentina in the Salhsa project. From bottom left: visit from Tanzania in the Safeworkers project and CIH strategy day at Alrek Health Cluster with CIH Advisory Board.*





*Photos: T. Tylleskär, B. E. Moen*  
*From top left: on the way to dinner in Bergen after strategy day for CIH PhD-candidates and students together with member of the CIH advisory board, Jeremy Lauer from UK. The next two pictures are from the summer party and the last is from the CIH Christmas party.*

# PUBLICATIONS 2022

## Adolescent health

Kaldenbach, Siri; Leonhardt, Marja; Lien, Lars; Bjertnæs, Asborg Sine Aanstad; **Strand, Tor Arne**; Holten-Andersen, Mads Nikolaj. *Sleep and energy drink consumption among Norwegian adolescents – a cross-sectional study*. BMC Public Health 2022; Volum 22.

**Skylstad, Vilde**; Babirye, Juliet Ndimwibo; Kiguli, Juliet; **Skar, Ane-Marthe Solheim**; **Kühl, Melf-Jakob**; Nalugya, Joyce Sserunjogi; **Engebretsen, Ingunn Marie Stadskleiv**. *Are we overlooking alcohol use by younger children?* BMJ Paediatrics Open 2022; Volum 6. (1)

**Isaksen, Katja**; **Sandøy, Ingvild Fossgard**; Zulu, Joseph; **Melberg, Andrea**; Kabombwe, Sheena; **Mudenda, Mweetwa**; Musonda, Patrick; **Svanemyr, Joar**. *Interviewing adolescent girls about sexual and reproductive health: a qualitative study exploring how best to ask questions in structured follow-up interviews in a randomized controlled trial in Zambia*. Reproductive Health 2022; Volum 19. (1)

Zulu, Ireen Zamanga; Zulu, Joseph Mumba; **Svanemyr, Joar**; Michelo, Charles Cheembo; Mutale, Wilbroad; **Sandøy, Ingvild Fossgard**. *Application of community dialogue approach to prevent adolescent pregnancy, early marriage and school dropout in Zambia: a case study*. Reproductive Health 2022; Volum 19. (1)

Duby, Zoe; Verwoerd, Wilmé; **Isaksen, Katja**; Jonas, Kim; Maruping, Kealeboga; Dietrich, Janan; Lovette, Ashleigh; Kuo, Caroline; Mathews, Catherine. *'I can't go to her when I have a problem': sexuality communication between South African adolescent girls and young women and their mothers*. SAHARA-J: Journal of Social Aspects of HIV/AIDS 2022; Volum 19. (1) s.8-21

**Hegdahl, Hanne Keyser**; **Musonda, Patrick**; **Svanemyr, Joar**; Zulu, Joseph; Grønvik, Taran; Jacobs, Choolwe; **Sandøy, Ingvild Fossgard**. *Effects of economic support, comprehensive sexuality education and community dialogue on sexual behaviour: Findings from a cluster-RCT among adolescent girls in rural Zambia*. Social Science and Medicine 2022; Volum 306.

## Covid-19 pandemic

Ranjitkar, Suman; **Strand, Tor Arne**; **Chandyo, Manjeswori Ulak**; Kvestad, Ingrid; Shrestha, Merina; **Schwinger, Catherine**; **Chandyo, Ram Krishna**; Shrestha, Laxman P.; Hysing, Mari. *Impact of the COVID-19 pandemic on daily life and worry among mothers in Bhaktapur, Nepal*. PLOS Global Public Health 2022; Volum 2. (4)

Helland, Henriette Kronstad; **Tylleskär, Thorkild**; Kvernenes, Monika; Reikvam, Håkon. *An Abrupt Transition to Digital Teaching—Norwegian Medical Students and Their Experiences of Learning Output during the Initial Phase of the COVID-19 Lockdown*. Healthcare 2022; Volum 10. (1)

Lazarus, Jeffrey V.; Romero, Diana; Kopka, Christopher J.; ...**Norheim, Ole Frithjof**... et al. *A multinational Delphi consensus to end the COVID-19 public health threat*. Nature 611, 332–345 (2022)

Aarø, Leif Edvard; Veneti, Lamprini; Vedaa, Øystein; Smith, Otto Robert Frans; De Blasio, Birgitte Freiesleben; **Robberstad, Bjarne**. *Visiting crowded places during the COVID-19 pandemic. A panel study among adult Norwegians*. Frontiers in Public Health 2022; Volum 10.

## eHealth

**Venkateswaran, Mahima**; Ghanem, Buthaina; Abbas, Eatimad; Abu Khader, Khadija; Abu Ward, Itimad; Awwad, Tamara; Baniode, Mohammad; Frost, Michael James; Hijaz, Taghreed; Isbeih, Mervett; Blom-Bakke, Kjersti Mørkrød; Rose, Christopher James; **Frøen, Jahn Frederik Alexander Claude**. *A digital health registry with clinical decision support for improving quality of antenatal care in Palestine (eRegQual): a pragmatic, clusterrandomised, controlled, superiority trial*. The Lancet Digital Health 2022; Volum 4. (2) s.e126-e136

**Venkateswaran, Mahima**; Nazzal, Zaher; Ghanem, Buthaina; Khraiwesh, Reham; Abbas, Eatimad; Khader, Khadija Abu; Awwad, Tamara; Hijaz, Taghreed; Isbeih, Mervett; Blom-Bakke, Kjersti Mørkrød; Rose, Christopher James; **Frøen, Jahn Frederik Alexander Claude**. *eRegTime—Time Spent on Health Information Management in Primary Health Care Clinics Using a Digital Health Registry Versus Paper-Based Documentation: Cluster-Randomized Controlled Trial*. JMIR Formative Research 2022; Volum 6. (5)

Khatun, Fatema; Distler, Rebecca; Rahman, Monjur; O'Donnell, Brian; Gachuhi, Noni; Alwani, Manoj; Wang, Yang; Rahman, Anisur; **Frøen, Jahn Frederik Alexander Claude**; Friberg, Ingrid Kristina. *Comparison of a palm-based biometric solution with a name-based identification system in rural Bangladesh*. Global health action 2022; Volum 15. (1) s.1-10

## Global Health Priorities, Ethics

Doherty, Tanya; **Engebretsen, Ingunn Marie Stadskleiv**; **Tylleskär, Thorkild**; Burgoine, Kathy; Bærug, Anne Bergljot; Mercer, Raul; Baker, Phillip; Clark, David;

Pereira-Kotze, Catherine Jane; Kroon, Max. *Questioning the ethics of international research on formula milk supplementation in low-income African countries: response*. *BMJ Global Health* 2022; Volum 7. (9)

### Health Economics

Tranvåg, Eirik Joakim; Haaland, Øystein Ariansen; **Robberstad, Bjarne; Norheim, Ole Frithjof**. Appraising Drugs Based on Cost-effectiveness and Severity of Disease in Norwegian Drug Coverage Decisions. *JAMA Network Open* 2022; Volum 5. (6)

Lamu, Admassu Nadew; Björkman, Lars; Hamre, Harald Johan; Alræk, Terje; Musial, Frauke; **Robberstad, Bjarne**. Is amalgam removal in patients with medically unexplained physical symptoms cost-effective? A prospective cohort and decision modelling study in Norway. *PLOS ONE* 2022; Volum 17. (4)

Lund, Ulrikke Højslev; Stoinska-Schneider, Anna Karina; Larsen, Karianne; Bache, Kristi Cecilie Grønvold; **Robberstad, Bjarne**. Cost-Effectiveness of Mobile Stroke Unit Care in Norway. *Stroke* 2022; Volum 53. (10) s.3173-3181

Reiner, Robert C., Jr; Welgan, Catherine A.; Troeger, Christopher E.; Baumann, Mathew M.; Weiss, Daniel J.; Deshpande, Aniruddha; Blacker, Brigette F.; Molly K., Miller-Petrie; Earl, Lucas; Bhatt, Samir; Kisa, Sezer; Kisa, Adnan; **Hassan, Shoab**; Abolhassani, Hassan; Eshete Abosetugn, Akine; Abu-Gharbieh, Eman; Adekanmbi, Victor; Adetokunboh, Olatunji O.; Aghaali, Mohammad; Aji, Budi; Alahdab, Fares; Al-Aly, Ziyad; Alhassan, Robert Kaba; Ali, Saqib; Alizade, Hesam; Aljunid, Syed Mohamed; Al-Mekhlaf, Hesham M.; Almasi-Hashiani, Amir; Altirkawi, Khalid A.; Alvis-Guzman, Nelson; Amare, Azmeraw T.; Amini, Saeed; Amugsi, Dickson A.; Ancuceanu, Robert; Anvari, Davood; Andrei, Catalina Liliana; Ansari, Fereshteh; Appiah, Seth Christopher Yaw; Arabloo, Jalal; Aremu, Olatunde; Atout, Maha Moh'd Wahbi; Ausloos, Marcel; Ausloos, Floriane; Ayanore, Martin Amogre; Aynalem, Yared Asmare; Azene, Zelalem Nigussie; Badaw, Alaa; Baig, Atif Amin; Banach, Maciej; Hay, Simon I. *The overlapping burden of the three leading causes of disability and death in sub-Saharan African children*. *Nature Communications* 2022; Volum 13. s.1-14

### Health Systems

Tyrovolas, Stefanos; Stergachis, Andy; Krish, Varsha Sarah; Chang, Angela Y.; Skirbekk, Vegard; Dieleman, Joseph L.; Chatterji, Somnath; Abd-Allah, Foad; Abdollahi, Mohammad; Abedi, Aidin; Abolhassani, Hassan; Bjørge, Tone; **Hassan, Shoab**; Sulo, Gerhard; Kisa, Adnan; Kisa, Sezer; Kotsakis, Georgios A.; Kassebaum, Nicholas J. *Global, regional, and national burden of diseases and injuries for adults 70 years and older: systematic analysis for the Global Burden of Disease 2019 Study*. *The BMJ* 2022

Clarsen, Benjamin Matthew; Nylenna, Magne; Klitkou, Søren Toksvig; Vollset, Stein Emil; Baravelli, Carl Michael; Bølling, Anette Kocbach; Aasvang, Gunn Marit; Sulo, Gerhard; Naghavi, Mohsen; Pasovic, Maja; Asaduzzaman,

Muhammad; Bjørge, Tone; Eggen, Anne Elise; Eikemo, Terje Andreas; Ellingsen, Christian Lycke; Haaland, Øystein Ariansen; Hailu, Alemayehu; **Hassan, Shoab**; Hay, Simon I.; Juliusson, Pétur Benedikt; Kisa, Adnan; Kisa, Sezer; Månsson, Johan; Yitayew, Teferi Mekonnen; Murray, Christopher J L; **Norheim, Ole Frithjof**; Ottersen, Trygve; Sagoe, Dominic; Sripada, Kam; Winkler, Andrea Sylvia; Knudsen, Ann Kristin Skringo. *Changes in life expectancy and disease burden in Norway, 1990–2019: an analysis of the Global Burden of Disease Study 2019*. *The Lancet Public Health* 2022; Volum 7. (7) s.e593-e605

Sharma, Siddhanth; Bressler, R. Daniel; Bhopal, Anand; **Norheim, Ole Frithjof**. *The global temperature-related mortality impact of earlier decarbonization for the Australian health sector and economy: A modelling study*. *PLOS ONE* 2022; Volum 17. (8)

Mirutse, Mizan Kiros; Tolla, Mieraf Tadesse; Memirie, Solomon Tessema; Palm, Michael Tekle; Hailu, Daniel; Abdi, Kunuz Abdella; Buli, Ermias Dessie; **Norheim, Ole Frithjof**. *The magnitude and perceived reasons for childhood cancer treatment abandonment in Ethiopia: from health care providers' perspective*. *BMC Health Services Research* 2022; Volum 22. (1)

Cetin, Kaya; Worku, Dawit; Demtse, Asrat; **Melberg, Andrea**; Miljeteig, Ingrid. *“Death audit is a fight” – provider perspectives on the ethics of the Maternal and Perinatal Death Surveillance and Response (MPDSR) system in Ethiopia*. *BMC Health Services Research* 2022; Volum 22.

### HIV

**Rutagwera, David Gatsinzi**; Molès, Jean-Pierre; Kankasa, Chipepo; Mwiya, Mwiya; Tuailon, Edouard; Peries, Marianne; Nagot, Nicolas; Van de Perre, Philippe; **Tylleskär, Thorkild**. *Recurrent Severe Subclinical Mastitis and the Risk of HIV Transmission Through Breastfeeding*. *Frontiers in Immunology* 2022; Volum 13. UIB

**Nakazwe, Chola; Fylkesnes, Knut**; Michelo, Charles Cheembo; **Sandøy, Ingvild Fossgard**. *Examining the association between HIV prevalence and socioeconomic factors among young people in Zambia: Do neighbourhood contextual effects play a role?* *PLOS ONE* 2022; Volum 17. (6)

Desquirit-Dumas, Valérie; D'Ottavi, Morgana; Monnin, Audrey; Goudenège, David; Méda, Nicolas; Vizeneux, Amélie; Kankasa, Chipepo; **Tylleskär, Thorkild**; Bris, Céline; Procaccio, Vincent; Nagot, Nicolas; Van de Perre, Philippe; Reynier, Pascal; Molès, Jean-Pierre. *Long-term persistence of mitochondrial DNA instability in HIV-exposed uninfected children during and after exposure to antiretroviral drugs and HIV*. *Biomedicine* 2022; Volum 10:1786. (8) s.1-17

**Kitetele, Faustin N., Lelo, Gilbert M.; Akele, Cathy E.; Lelo, Patricia Vangu Matondo**; Mafuta, Eric M.; **Tylleskär, Thorkild; Kashala-Abotnes, Espérance**. *“The Peer Educator Is the Game-Changer of My Life”*: *Perceptions of Adolescents Living with HIV in DR Congo*



on Involving Peer Educators in the Process of HIV Disclosure. *Children* 2022; Volum 9. (8)

**Kitetele, Faustin N.**, Lelo, Gilbert M.; Akele, Cathy E.; Lelo, Patricia Vangu Matondo; Aketi, Loukia; Mafuta, Eric M.; **Tylleskär, Thorkild; Kashala-Abotnes, Espérance.** *Lessons Learned from the Impact of HIV Status Disclosure to Children after First-Line Antiretroviral Treatment Failure in Kinshasa, DR Congo.* *Children* 2022; Volum 9. (12)

## Malaria

Kwambai, Titus K; Mori, Amani Thomas; Nevitt, Sarah; van Eijk, Anna Maria; Samuels, Aaron M; **Robberstad, Bjarne**; Phiri, Kamija S; ter Kuile, Feiko O. *Post-discharge morbidity and mortality in children admitted with severe anaemia and other health conditions in malaria-endemic settings in Africa: a systematic review and meta-analysis.* *The Lancet Child and Adolescent Health* 2022; Volum . (7) s.474-483

**Kühl, Melf-Jakob**; Gondwe, Thandile; Dhabangi, Aggrey; Kwambai, Titus K.; Mori, Amani Thomas; Opoka, Robert; John, C. Chandyy; Idro, Richard; ter Kuile, Feiko O.; Phiri, Kamija S.; **Robberstad, Bjarne.** *Economic evaluation of postdischarge malaria chemoprevention in preschool children treated for severe anaemia in Malawi, Kenya, and Uganda: A cost-effectiveness analysis.* *EClinicalMedicine* 2022; Volum 52. s.1-13

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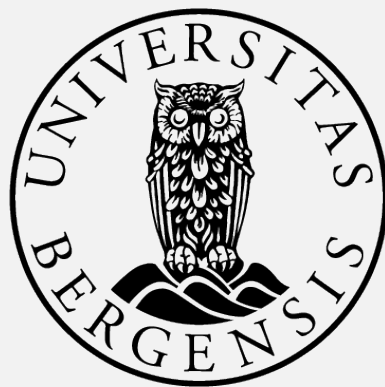
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