

Centre for International Health

UNIVERSITY OF BERGEN



ANNUAL REPORT 2019

VISION AT CENTRE FOR INTERNATIONAL HEALTH

Our research and education in global health will contribute to improved health for the poorer populations of the world.

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Front cover image
The front cover image was designed for CIH by Bodoni AS, Bergen

1. FROM THE CENTRE DIRECTOR

In 2019, people at Centre for International Health (CIH) have been working hard, and the results are seen in this annual report.

The CIH staff are dedicated to high quality cross-disciplinary research and education. Our activities are embedded in the strategic priorities of the University of Bergen (UiB), through the Faculty of Medicine and Department of Global Public Health and Primary Care, but the Centre co-operates with most of the other Faculties at UiB as well. In addition, CIH has partnerships with many institutions and researchers in many countries.

Our main partners are institutions in low-income countries, and these partners and research collaborations and training activities with them represent the main priority at CIH. In short, we take research out into the real world to make a difference in people's lives.

We strive to contribute to the UN Sustainable Development Goals. We have a clear vision: We want to improve health globally, and to achieve a better and more sustainable future for all.

I am very grateful to the scientific and administrative staff at CIH – thank you everyone – you all do a great job.

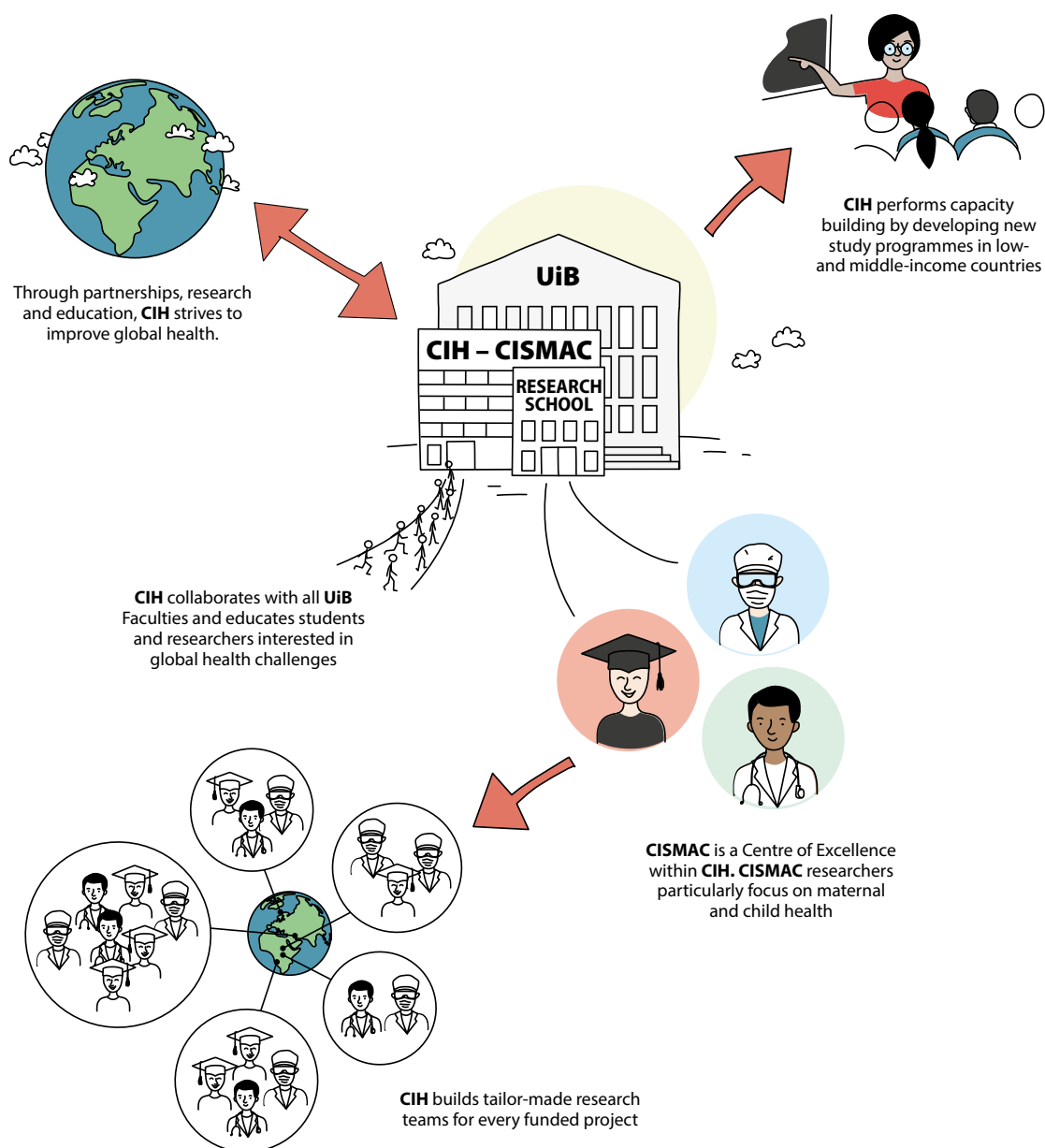
This year, CIH welcomed the staff at Section for Ethics and Health Economics, who moved in with us to Overlege Danielsens Hus, and who are on the 4th floor. We hope for a continuing, fruitful co-operation with this group, as well as with all our other associated researchers and partners in Norway, and, of course, with those outside Norway. You all do a great job! Let us continue this important work together!

Bergen 28th February
Bente E. Moen
Director, CIH



2. ORGANISATION

Centre for International Health



Improving health globally.

2.1 INTRODUCTION

Global challenges such as global health, seem to involve issues that are increasing in severity and number. In 2019, CIH responded to these developments by appointing an Academic Advisory Group, to provide important critical feedback to the Centre's activity and strategies, current and future.

2.2 CIH BOARD

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 2019.

CIH Board Members 2019: Anne Nordrehaug Åstrøm (IKO, Board Leader), Per Bakke (Dean) / (alternate) Marit Bakke (Vice Dean for research), Kjell Morten Myhr (K1), Pål Rasmus Njølstad (K2), Mathias Ziegler (IBM) and Guri Rørtveit (IGS).

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



2.3 ACADEMIC ADVISORY GROUP

Members of the newly established CIH Academic Advisory Group have been appointed for the period 2019-2021, with the Centre Director as the chair of their meetings. They include:

From University of Bergen:

Professor Torkild Tylleskär, CIH

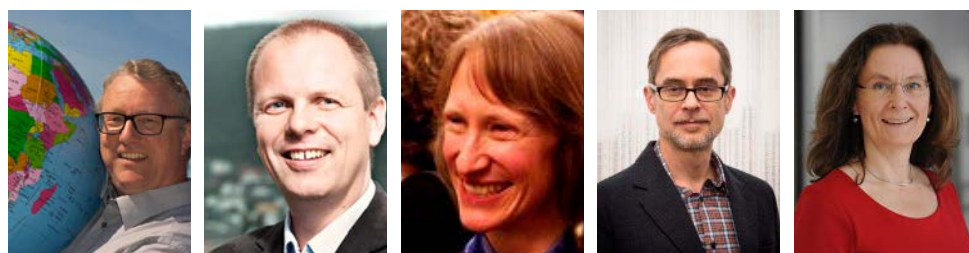
External to UiB:

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/Professor Jeremy Addison Lauer, WHO, Geneva, Switzerland, University of Strathclyde, UK





The Health Resource Allocation Game teaches players how to navigate priority-setting, decision, team-making, and team-based actions while building a health system in a fictitious setting. The game was developed at the Royal Tropical Institute (KIT) in Amsterdam, and was played by the Global Health Master students at CIH for the first time in 2019. Photo: Torkild Tylleskär

3. CONTRIBUTING TO BETTER HEALTH THROUGH RESEARCH

3.1 INTRODUCTION

CIH's research contributes actively to improving health in the poorer populations of the world.

In 2019, there were around 50 active projects at CIH, including 8 new projects. The projects involve networks and collaborations with many different international partners (both institutions and individual researchers). Research partnerships, collaborations and networks at CIH involve over 30 countries on 6 continents.

One of the new projects in 2019 was TREAT (Child Alcohol Use Disorder in Eastern Uganda). It was given praise by the Norwegian National Research Ethics Committee (REK). They wrote that the project addresses an important problem area, and is well thought out, particularly with regards to minimising the impact on the children involved.

In 2019 the funding for the Research Council of Norway's (RCN's) GLOBVAC programme for research ended. This programme funded research contributing to sustainable improvements in health and health equity for people in low-and middle-income countries. It has been a major source of funding for global health research and training since 2006, as you can see from the pie chart on this page. Hopefully, RCN will establish a new programme in this thematic area. In the meantime, CIH researchers are actively positioning themselves for other funding opportunities.

There were a number of strong publications at CIH in 2019. Most impressive was the CISMALC Lancet paper on community-initiated Kangaroo Mother Care. We also highlight a publication from an up-and-coming CIH PhD Candidate, Marte Haaland. Together with her Zambian colleague, Assistant Professor Joseph Mumba Zulu from School of Public Health, University of Zambia, Lusaka Zambia, Haaland wrote a Lancet Comment.

CIH has a number of strong research groups. Two are profiled in this year's Annual Report.

In addition to participating in a number of local, national and international conferences on SDGs and Global Health issues, CIH hosted a Seminar on Malaria and Working in Ethiopia. The Seminar was held in honour of retiring Professor, Bernt Lindtjørn.

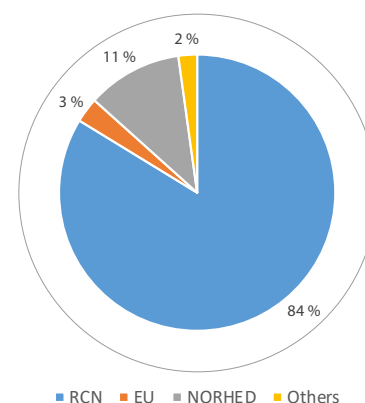
Much of CIH's research activity also involves network activity and is presented in Chapter 6 Networking.

CIH-CISMALC Research School

The CIH-CISMALC Research School organises seminars, webinars and courses for PhD candidates at CIH and CISMALC. It is also responsible for arranging PhD mid-term evaluations. Examples of activities organised by the School include courses in writing scientific papers and producing scientific posters.

Candidates are also encouraged to join the Norwegian Research School of Global Health, which provides courses and mobility grants (www.ntnu.edu/web/nrsg/norwegian-research-school-of-global-health).

The external funding sources for projects at CIH



CIH and the SDGs

CIH's research is very much in line with UiB's efforts in terms of SDG and global challenge initiatives. While the Centre strongly contributes to SDG3 (3.1 & 3.2), addressing mother and infant mortality, research at CIH also impacts several other SDGs (including 1, 2, as well as other targets in 3, 4, 5, 6, 8, 9, 10, 11, 13 and 17).



CIH and the SDGs

1	End poverty in all its forms everywhere	5.1	ending discrimination against women and girls
2.2	ending malnutrition, setting targets for stunting and wasting for children <5	5.6	universal access to sexual and reproductive health rights and services
3.1	maternal mortality, facility births	6	availability and sustainable management of water for all
3.2	infant mortality, child mortality	8	sustained, inclusive, sustainable economic growth, full and productive employment and decent work for all
3.3	communicable diseases – malaria, AIDS/HIV, TB	9.5	enhance scientific research and technological capabilities especially in developing countries
3.4	non-communicable diseases – chronic respiratory	10.6	improve decision-making capacity and legitimacy of institutions
3.5	substance abuse – alcohol	11.6	air pollution in urban environments
3.6	deaths from traffic accidents	13	climate action
3.7	universal access to sexual and reproductive health-care services (especially family planning needs, adolescent birth rate)	17	strengthen the means of implementation and revitalize the global partnership for sustainable development
3.8	UHC		
3.9	air pollution		
3.B	Support the research and development of vaccines		
3.C	health worker training		
4.3	equal access to tertiary education		
4.A	upgrading facilities		
4.B	scholarships for capacity-building, competency strengthening		
4.C	increasing supply of qualified teachers		

3.2 CISMAL

The Centre for Intervention Science in Maternal and Child Health (CISMAL) was established as a Research Council of Norway Centre of Excellence in 2013. CISMAL researchers conduct research to improve maternal, newborn and child health (MNCH) in low and middle-income countries. CISMAL researchers develop and test promising interventions and help translate research findings into policy and practice.



CISMAL is a collaborative research consortium with partner institutions in Norway, Ethiopia, India, Nepal, Pakistan, South Africa, Uganda and Zambia. It also collaborates closely with the World Health Organization (WHO). CISMAL studies generate results of high scientific quality that can be used to guide policies to equitably enhance maternal and child health, survival and development in low and middle-income countries.

There are currently 15 main CISMAL studies, which span a variety of topics within MNCH in different geographical settings. Several of these studies are generating important spin-off projects, which further extend the scope of CISMAL's research.

The studies cover a wide range of interventions addressing some important global health challenges. These include BCG vaccination of infants whose mothers have HIV infections; impact of community-initiated Kangaroo Mother Care (ci-KMC) in low birth weight babies; improving postnatal care; and, studies on education and empowerment of adolescent girls to reduce the risk of teenage childbearing and fostering entrepreneurship. Learn more from the CISMAL website.

In 2019, CISMAL published the results of the large ci-KMC trial in India in *The Lancet*. The results demonstrated that ci-KMC substantially enhances survival in infants. The government of India is now examining incorporating ci-KMC into its newborn programme. In addition, the WHO will include the study results when making its recommendations for KMC in the coming months.

Training the next generation

CISMAL studies provide valuable opportunities for young researchers to develop their knowledge and skills and become health intervention and implementation scientists. This is achieved both through participating in CISMAL-facilitated training and also by conducting important work in study teams or by leading their own spin-off projects, with close supervision and support from senior researchers.



CISMAL has its own annual report, see their web page: uib.no/en/cismal

3.3 SEMINAR: MALARIA AND ACADEMIC WORK IN ETHIOPIA

August 2019, CIH hosted a seminar on malaria research and academic work in Ethiopia. The seminar was organised to celebrate Professor Bernt Lindtjørn's long and productive research career.

Lindtjørn's research interests have largely focused on issues relating to health in southern Ethiopia. He has written around 200 scholarly articles and has nearly 20 successfully defended PhD Candidates. Lindtjørn has also excelled at making research and health information generally accessible. He has developed numerous blogs and websites relating to malaria research as well as his other research projects.

Lindtjørn undertook his Dr. med. in Child Health and Nutrition under Bjarne Bjorvatn at CIH, in 1991–1992. His dissertation included 7 published articles where he was the sole author! He was the Director of CIH in 2 periods: 1998–2000 and 2004–2007.



Bernt Lindtjørn and colleagues Wakgari Deressa and Mitike Molla from Addis Ababa University. Photo: Torkild Tylleskär

Seminar for Professor Bernt Lindtjørn, Centre for International Health, University of Bergen - 70 years



Invitation to the seminar: Malaria and academic work in Ethiopia

Date and time: Monday 26th August 2019 0915-1230

Location: Auditorium Cavum, Odontology Building, Årstadveien 19

Program:

Malaria

0915 "Treatment and prevention of malaria", Professor Bernt Lindtjørn

0945 "Cost-effectiveness of a combined intervention of long-lasting insecticidal nets and indoor residual spraying compared with each intervention alone for malaria prevention in Ethiopia", Professor Bjarne Robberstad

1015 -1030 Break

Academic work in Ethiopia

1030-1100 "Research, clinical work and public health in Ethiopia- experiences", Professor Bernt Lindtjørn

1100-1120 "How to work on global health – in Ethiopia", Professor Ole F. Norheim

1120 -1140 Greeting from Addis Ababa University, Vice President, AAU Mitike Molla

1140 -1200 Greeting from Addis Ababa University, School of Public Health, Ass Professor, AAU Wakgari Deressa

1200 -1230 Discussion

1245 Lunch at CIH

Sign up for the seminar on the link received in your email

3.4 GLOBAL ANTHROPOLOGY RESEARCH GROUP

The CIH research group, Global Anthropology, is multi-disciplinary and bridges CIH and its host, the Department of Global Public Health and Primary Care. Professor Astrid Blystad is the Group's Leader. The Group's aims and more information about its activities can be found on its website (www.uib.no/en/rg/gha). Members are involved in a number of research projects; the 2 largest are SAFEZT (An interdisciplinary research project on fertility control and safe abortion in Ethiopia, Zambia and Tanzania) and RISE (Formative qualitative research linked to a cluster randomised controlled trial aimed to increase age at first delivery in Zambia).

Highlights in 2019 include

- Organising a special issue of the International Journal for Equity in Health entitled "The Politics of Abortion" with articles highlighting the "articulation between the legal, political, social, and cultural conditions that work to enhance or hinder access to safe abortion services".
- Marte Haaland, and her colleague, Joseph Mumba Zulu, publishing a comment in The Lancet Global Health on abortion, the global GAG rule and the importance of local context.
- A number of researchers from this group publishing important papers about multi-level approaches, as well as socio-cultural and political context issues relating to women's sexual and reproductive rights.
- Finally, being awarded a prize: a group partner, Dr. Mulumebet Zenebe at Addis Ababa University was given the university's Gold Medal for her research on gender, sexuality and reproductive health in the SAFEZT project.

3.5 GLOBAL MENTAL HEALTH RESEARCH GROUP

CIH's Research Group, Global Mental Health, aims to build strong research competence in global mental health as well as in global child and adolescent development and mental health. The group consists of senior scientists, clinicians and PhD/Master candidates. The leader is Professor Ingunn Marie S. Engebretsen.

Researchers associated with the group are involved in numerous projects, which are described on their website (uib.no/en/rg/gmh). These deal largely, but not entirely, with child and adolescent mental health. The group's newest project is entitled TREAT C-AUD: Child Alcohol Use Disorder in Eastern Uganda (TREAT).

Researchers in this Research Group have been actively promoting new partnerships and building networks to promote Mental Health on the Global Health agenda. Examples include the competency exchange with Cambodia on child and adolescent health, a collaboration with Bhutan that focuses on mental health aiming at suicide prevention, and a PhD project in Uganda on child and adolescent health. Another PhD project is investigating medication-free treatments of psychoses.

3.6 WILLIAM HOWLETT WINS IRISH PRESIDENTS AWARD

William Howlett, an annually visiting researcher at CIH, has been awarded one of the 2019 Presidential Distinguished Service Awards for the Irish Abroad. Dr Howlett has conducted internationally-acclaimed work as a medical researcher in northern Tanzania since the 1980s. Internationally, he is particularly noted for his ground-breaking research on the neurological elements of HIV/AIDS and their manifestations in the African context, as well as for his meticulous work with the debilitating neurological disease, Konzo, which he identified together with his supervisor, Hans Rosling. Dr Howlett has worked tirelessly to establish and enhance medical training and facilities for Tanzanian students, and to train local doctors. He has contributed greatly to the study of neurology in Africa, and has written a textbook, "Neurology in Africa", which is available free online.



William Howlett and Irish President Michael D. Higgins

3.7 DISSEMINATING RESEARCH RESULTS

CIH Professor, Cecilie Svanes, has been involved in the RHINESSA project (Respiratory Health in Northern Europe, Switzerland, Spain and Australia), a multi-national, multi-generational study studying lung health. In 2019, Svanes has not only been involved in publishing ground-breaking scientific results, but has disseminated these results to the wider community. In the case of the lung health risks inherent in cleaning products and cleaning practices, her results were part of a motion presented to the British Parliament in May 2019.



Cecilie Svanes and Sally Keeble, British MP

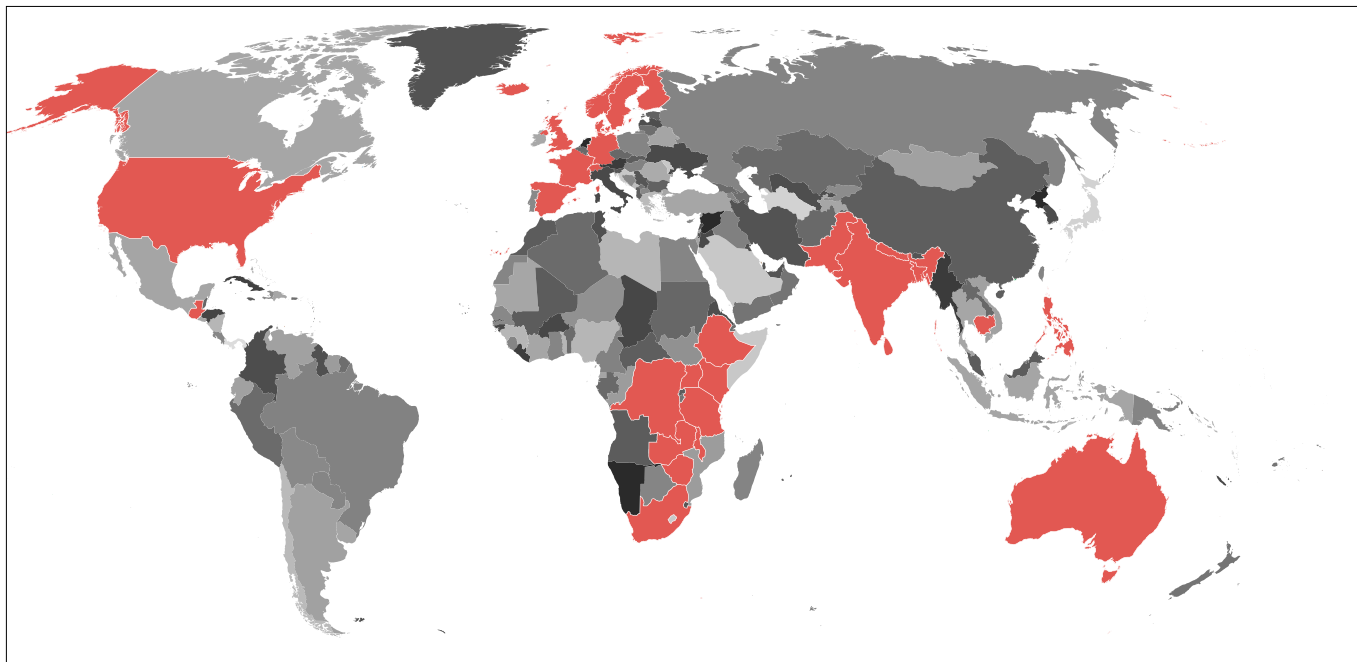
Read article: [Cleaning at Home and at Work in Relation to Lung Function Decline and Airway Obstruction](#). Examples from international news about this article include, [Is my clean kitchen killing me?](#) and [Is cleaning damaging your health?](#)

3.8 CIH PROJECT LIST

It is always difficult to define what a CIH project is. This time we have listed projects that have achieved external funding and are administered at CIH. We have not added the projects specifically related to CISMACH or Bergen Centre for Ethics and Priority Setting (BCEPS).

	PROJECT TITLE	DURATION	PROJECT LEADER	FUNDING SOURCE	COLLABORATION WITH
1	Enfance Africaine – Mental child health in francophone Africa	2014-2019	Abotnes, Esperance Kashala	NFR/GLOBVAC	Africa
2	Innovation to Scale? Formative Dialogue Research in Visjon 2030 Projects	2017-2021	Van den Bergh, Graziella / Moen, Bente Elisabeth	NFR	Africa, Europe
3	Zinc as an adjunct for the treatment of very severe disease in infants younger than 2 months	2014-2019	Bhatnagar, Shinjini	NFR/GLOBVAC	Asia
4	Competing discourses impacting girls and womens rights: Fertility control and safe abortion in Ethiopia, Tanzania and Zambia	2016-2019	Blystad, Astrid	NFR	Africa, Europe
5	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
6	Development of a baseline & follow study for parenting programmes in three Child Sensitive Social Protection projects in Asia.	2017-2020	Engebretsen, Ingunn	Save the Children Finland	Europe
7	Preparing for tuberculosis vaccine efficacy trials: Baseline epidemiology, improved diagnosis, markers of protection and phase I / II trials.	2008-2020	Grewal, Harleen	NFR	Africa, Europe
8	Problematic Pregnancies – An ethnographic study of the sociopolitical dimensions of access to fertility control and safe abortion in Zambia	2018-2019	Haaland, Marte Emilie Sandvik	Meltzerfondets	Asia, Europe
9	Building and reflecting on interdisciplinary PhD Studies for Higher Education Transformation	2017-2020	Halvorsen, Tor	NORHED	Africa
10	GROW NUT – Growing Partnership for Higher Education and Research in Nutritional Epidemiology in DR Congo	2013-2020	Hatløy, Anne/ Tylleskär, Torkild	NORHED	Africa
11	Transformative Inclusive Higher Education in Sub-Saharan Africa for Sustainable Development – THISSA	2019-2020	Halvorsen, Tor / Moen, Bente Elisabeth	EU	Africa
12	Tuberculosis cluster study Ethiopia	2019-2021	Hinderaker, Sven Gudmund	Folkehelseinstituttet	Africa
13	Inte-Africa	2019-2022	Hinderaker, Sven Gudmund	EU	Europe, Africa
14	Understanding the link between Air pollution and Distribution of related Health Impacts and Welfare in the Nordic countries	2019-2020	Johannessen, Ane	Nordforsk	Europe
15	SENUPH – South Ethiopia Network of Universities in Public Health (SENUPH) aims to improve women's participation in post graduate education	2014-2020	Lindtjørn, Bernt	NORHED	Africa
16	Development of innovative e-learning and teaching through strategic partnerships in Global Health Education	2016-2019	Moen, Bente Elisabeth	EU	
17	Nordic Network on Global Health	2017-2019	Moen, Bente Elisabeth	Norplus	Europe
18	Norwegian Forum for Global Health Research	2016-2019	Moen, Bente Elisabeth	NFR	
19	Reduction of the burden of injuries and occupational exposures through capacity building in low income countries.	2013-2021	Moen, Bente Elisabeth	NORHED	Africa
20	Hi-Train: Better health information for better health care	2014-2020	Mughal, Khalid Azin	NORHED	Africa, Europe
21	Improving diagnosis of extrapulmonary tuberculosis by implementation of a sensitive and specific assay in routine tuberculosis diagnostics	2014-2019	Mustafa, Tehmina	NFR/GLOBVAC	Asia
22	Biomarkers in tuberculosis: implications for improved diagnosis, monitoring treatment response, and host-directed therapies	2019-2021	Mustafa, Tehmina	NFR/UiB	Europe

23	Norwegian archival material from the pre-antibiotic era of early twentieth century for understanding immune-pathogenesis of tuberculosis: implication for host-directed therapies	2019-2023	Mustafa, Tehmina	UiB	Europe
24	Risk of infection with Mycobacterium tuberculosis in a low tuberculosis prevalence setting	2019-2021	Mustafa, Tehmina	UiB	Europe
25	IPTp with dihydroartemisinin-piperaquine and azithromycin for malaria, sexually transmitted and reproductive tract infections in pregnancy in high sulphadoxine-pyrimethamine resistance areas in Kenya, Malawi and Tanzania	2017-2020	Robberstad, Bjarne	EU-EDCTP	Africa, Europe
26	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
27	Malaria Chemoprevention for the post-discharge management of severe anaemia in children in Malawi, Uganda and Kenya: Moving towards policy	2014-2019	Robberstad, Bjarne	NFR/GLOBVAC	Africa, Europe, USA
28	Strengthen Health Economics Capacity at Bergen and MUHAS	2017-2021	Robberstad, Bjarne	SIU	Africa
29	Malarial Impact on Neurobehavioral Development (MIND)	2019-2025	Robberstad, Bjarne	USA	Africa
30	The effectiveness of a girl empowerment programme on early childbearing, marriage and school dropout in Rural Zambia: A cluster trial	2015-2020	Sandøy, Ingvild Fossgard	NFR , GLOBVAC	Africa
31	Medical Peace Work	2015-2019	Sandøy, Ingvild Fossgard	Erasmus+	Africa
32	Strengthening Health Systems and health care implementation through Network based graduate training and research education in Zambia	2017-2022	Sandøy, Ingvild Fossgard	SIU	Africa
33	ETECVAC, Development of a vaccine for enterotoxigenic E. coli based on the heat-stable toxin	2014-2019	Sommerfelt, Halvor	NFR	Asia
34	Centre of Excellence: Centre for Intervention Science in Maternal and Child Health (CISMAC)	2013-2023	Sommerfelt, Halvor	NFR	Africa and Asia
35	New vaccine against traveler's diarrhea caused by ETEC	2016-2019	Sommerfelt, Halvor	NFR	Europe
36	Capsule development.	2018-2020	Sommerfelt, Halvor	NFR	Europe
37	An untethered remotely triggered device for collecting fluids and cells from the intestinal lumen	2019-2019	Sommerfelt, Halvor	BTO/UiB	Europe
38	The effect of Vitamin B12 supplementation in Nepali Infants on Growth and Development	2017-2019	Strand, Tor A	GC Rieber fondet	Asia
39	Impact of vitamin B12 on neurodevelopment and cognitive function from early life into school age, the Vita beginning-collaboration.	2014-2019	Strand, Tor A	NFR	Asia/Africa
40	ALEC, Aging Lungs in European Cohorts	2015-2019	Svanes, Cecilie	EU	Europe
41	Exploring the role of helminths in the global allergy epidemic.	2018-2020	Svanes, Cecilie	Worldwide Universities Network	Europe
42	WASO: Water and Society	2014-2020	Sætersdal, Tore	NORHED	Africa, Asia
43	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, Torkild	EU-EDCTP	Africa, Europe
44	Prevention of mother-to-child transmission of hiv-1: program evaluation and innovative rescue intervention integrated in the expanded program of immunization	2018-2021	Tylleskär, Torkild	EU-EDCTP	Africa, Europe
45	Randomized Phase III Clinical Trial Assessing a Supraglottic Device versus Face-Mask Ventilation in Neonatal Resuscitation in Africa	2016-2019	Tylleskär, Torkild	NFR	Africa, Europe
46	HI-TRAIN – Health Informatics training and research in East Africa for improved health care	2013-2020	Tylleskär, Torkild	NORHED	Africa
47	SURVIVAL PLUS: Increasing capacity for mama-baby survival in post-conflict Uganda and South Sudan	2013-2020	Tylleskär, Torkild	NORHED	Africa
48	Capacity building in postgraduate surgical training and research in Malawi	2014-2020	Young, Sven	NORHED	Africa



CIH Project countries: Australia, Bangladesh, Denmark, Cambodia, Democratic Republic of Congo, Ethiopia, Finland, France, Germany, Guatemala, Iceland, India, Kenya, Malawi, Nepal, Norway, Pakistan, Philippines, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Tanzania, Uganda, United Kingdom, USA, Zambia, Zimbabwe. Map: colourbox.com



CISMAC meeting. Photo: Torkild Tylleskär

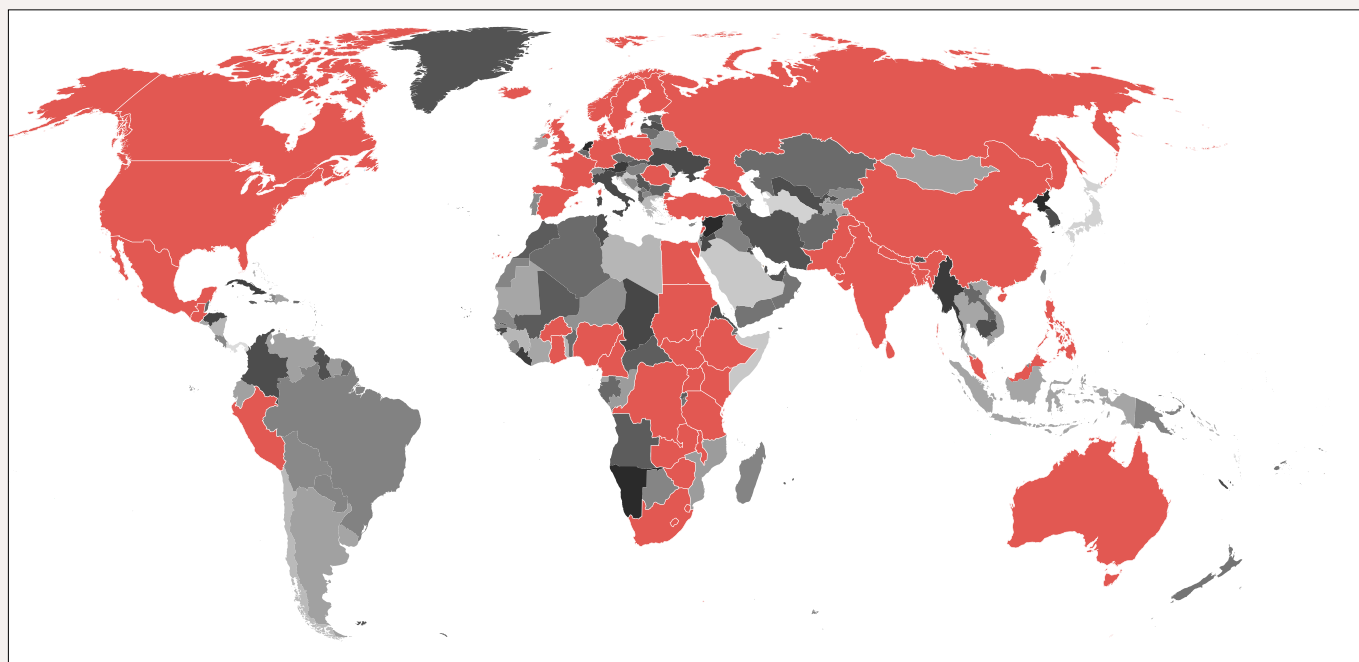
4. CONTRIBUTING TO BETTER HEALTH THROUGH EDUCATION AND TRAINING

4.1 INTRODUCTION

Education and Training at CIH can be characterised by a number of things. Chief among these are internationalism and inter-disciplinarity. These two aspects underline both the diversity of the expertise of CIH staff and the high quality of the instruction offered.

The student body at CIH is extremely internationally diverse. In 2019, the PhD and Master candidates at CIH represented 40 different countries on 6 different continents.

DEGREE PROGRAMME	NUMBER OF STUDENTS	NUMBER OF COUNTRIES
Master students (year 1)	31	18
Master students (year 2)	20	16
Master degrees awarded	11	8
PhD Candidates	62	18
PhD degrees awarded	6	5



Countries students came from: Australia, Bangladesh, Burkina Faso, Cameroon, Canada, China, Democratic Republic of Congo, Denmark, Egypt, Enswathe, Ethiopia, Finland, France, Germany, Ghana, India, Kenya, Lebanon, Lesotho, Malawi, Malaysia, Mexico, Nepal, Nigeria, Norway, Pakistan, Peru, Poland, Romania, Russia, South Sudan, Spain, Sri Lanka, Sudan, Sweden, Tanzania, Turkey, Uganda, USA, Zambia. Map: colourbox.com

By definition, Global Health is inter-disciplinary. In addition, many of the CIH academic staff also teach elsewhere at UiB, in Bergen, Norway and internationally. They teach subjects including Nutrition, Psychology, Psychiatry, Public Health, Maternal and Child Health, Lung Diseases, Occupational Health and Anthropology.

Master Programme in Global Health

CIH's Master Programme in Global Health is a two-year programme. It includes one year of classes and one year of field / thesis / internship. Learn more on the CIH website uib.no/en/cih.

INTERNSHIPS

New for students starting in 2019 was an internship component. It begins in the second year. During this year, students choose between writing a 60 ECTS thesis, or combining a 30 ECTS thesis with an internship (also worth 30 ECTS).

Taking an internship gives students practical experiences in real global health situations. During an internship, the students participate in the daily activities of a public health-related host institution or organisation. Over time, the programme aims to build a portfolio of internship agreements for students to choose from. Currently, however, it mostly relies on the students themselves identifying suitable internship hosts. CIH staff support the students in this process. Before the candidate can start an internship period, the host institution and CIH / UiB must sign a written agreement.



Global Health Master students playing the Health Resource Allocation Game. Photo: Elinor Bartle

ACTIVE LEARNING

In autumn 2019, the first year Master students were divided into teams to play the *Health Resource Allocation Game*, which is a simulation board game. The game was developed at the Royal Tropical Institute (KIT) in Amsterdam and has been used at public health training institutions around the world. In the game, the teams each create a health system for a hypothetical province in a fictitious country.

Among other things, the game stimulates the development of teamwork skills, strengthens understanding of the multi-level factors driving decision-making, and encourages the participants to reflect on alternative decision-making strategies. It is learning by doing. The aim is not to win, but to engage in “realistic” discussions about these very complex issues, thereby building greater understanding of the enormous challenges involved.

The first step is for each team to build their health system. In the second stage, their system is “tested” on “real” patients. In the third phase, the students together compare and contrast the different solutions the teams have developed.

CORE COURSES - AUTUMN SEMESTER

- Global health - challenges and responses – [SDG303](#)
- Methods in Global Health Research – [INTH315](#)
- Proposal development – [INTH330A](#)

ELECTIVE COURSES - SPRING SEMESTER

- Applied economic evaluation in health care – [INTH314](#) / [INTH914](#)
- Culture and psychopathology – Mental health in a cross-cultural perspective – [INTH325A](#)
- Experimental Epidemiology – [INTH321A](#) / [INTH921](#)
- Global nutrition – [INTH360](#)
- Migration and health – [INTH344](#) / [INTH944](#)
- Observational epidemiology – [INTH356](#) / [INTH956](#)
- Qualitative research methods for global public health – [INTH323E](#) / [INTH923](#)
- Equity and fairness in health – an applied approach – [ELMED310](#) / [INTH950](#)
- Global tuberculosis epidemiology and intervention – [ELMED311](#) / [INTH928](#)

LEARNING BY DOING

- What if it was up to you to restore the health system to a war-ravaged country that has finally achieved peace?
- How would you prioritise and allocate resources within a limited budget?
- What infrastructures would you build and where?
- What programmes would you implement?

ONLINE COURSES:

- Global tuberculosis epidemiology and intervention (starts in January) – [INTH328B](#) / [INTH928](#)
- Qualitative research methods for global public health (online every other year) – [INTH323E](#)
- **MOOC:** Occupational Health in Developing Countries – [INTH310A](#) (UiB students) / [INTH660](#) (external students) – www.futurelearn.com/courses/occupational-health-developing-countries
- **MOOC:** Addressing Violence Through Patient Care – www.futurelearn.com/courses/addressing-violence-patient-care
- **MOOC:** Global Health, Conflict and Violence – www.futurelearn.com/courses/medical-peace-work-global-health

UNDERGRADUATE COURSES:

- Global health (for medical students having passed the preclinical part of the medical curriculum or equivalent) – **autumn course** – [GLOBALHEALTH](#)
- Global theory (for medical students having passed the preclinical part of the medical curriculum or equivalent) – **autumn course** – [GLOBALTHEORY](#)

4.2 MORE ABOUT COURSES

Global Health Courses

Because of the growing relevance of a global approach to health, all of UiB's medical students take a one-week long course in Global Health (semester 6). In 2019, CIH ran this course 3 times: May, June 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 in a low-income country. In 2019, 18 of UiB's medical students and 8 psychology students attended. They visited Ghana, Tanzania, Uganda and India.

Reaching beyond the traditional classroom

CIH also works to fulfil its vision of contributing to improved health in the poorer populations of the world, by offering several online courses:

- 3 MOOCs and 2 regular CIH courses
- CIH guest researcher, William Howlett's pdf version of his Neurology textbook continues to be one of UiB's most visited web pages.
- CIH has also collaborated with several other universities to provide content to a Global Health hub in an Open Educational Resources Commons (OER Commons).

"Occupational Health in Developing Countries" is a 6-week course, and has been offered twice a year since 2016. "Addressing Violence Through Patient Care", and, "Global Health, Conflict and Violence" are both 3-week courses that were each offered twice in 2019. The 2 were originally one 6-week course, entitled "Medical Peace Work", which was offered 3 times, twice in 2017 and once in 2018.

- The MOOCs include topics not available in most developing countries.
- They are well attended, reaching a few thousand students each year, from many different countries.
- The completion rates are considerably higher than what is “normal” for MOOCs.

TITLE	DATES	DURATION	NUMBER STUDENTS REGISTERED	COMPLETION %	NUMBER OF COUNTRIES
Occupational Health in Developing Countries	March 2019	6 weeks	1163	21%	117
	October 2019	6 weeks	1532	18%	128
Addressing Violence Through Patient Care	February 2019	3 weeks	697	37%	98
	September–October 2019	3 weeks	565	46%	94
Global Health, Conflict and Violence	January–February 2019	3 weeks	716	34%	95
	August–September 2019	3 weeks	785	38%	105

BSRS 2019: Make an impact on policies for a sustainable future

Held every year in June, Bergen Summer Research School (BSRS) includes around 100 PhD Candidates from around the world. The Summer School is an interdisciplinary venue that explores contemporary challenges.

BSRS 2019 focused on the need to connect research to the UN's 2030 Agenda. It aimed to provide participating students with tools for navigating the interface between science and policy-making. CIH Professor, Torkild Tylleskär, led one of the six main courses: “The unfinished agenda of maternal and child health”.

4.3 MEDICAL RESEARCH TRACK STUDENTS

The Faculty of Medicine at UiB offers a special Medical Student Research Programme to a group of medical and dental students (up to 10%) who are particularly interested in medical or dental research and are willing to do research in parallel with their studies.

The selected students follow an ordinary medical or dental study. In addition, they follow an organised training programme that gives them the opportunity to undertake their own research project, and write a scientific article. The experience could be the beginning of a PhD programme.

Medical research students hosted at CIH:

NAME	PROJECT TITLE	SUPERVISOR
Brendbekken, Audun	Har norske helsepolitiske prioriteringer legitimitet i samfunnet?	Ole Frithjof Norheim, Bjarne Robberstad
Halvåg, Ragnhild Sørboen	Exploring the feasibility and acceptability of introducing symphysiotomy in emergency obstetric care in rural Ethiopia. A formative qualitative study	Karen Marie Moland, Torvid Kiserud, Astrid Blystad
McLean, Emily	Abortion in Ethiopia. Legislation, access to services and the public debate.	Ingrid Miljeteig, Astrid Blystad
Pannu, Mehrajjeet Kaur	Malaria chemoprevention for the post-discharge management of severe anaemia in children in Malawi, Uganda and Kenya	Bjarne Robberstad, Gry Wester, Ole F. Norheim
Svege, Sarah	Caretakers acceptability of different delivery mechanisms of post malaria chemoprevention (PMC) IN Malawi	Bjarne Robberstad, Siri Lange
Teigen, David	Kostnadseffektivitet av behandling med Hydroksyrurea hos pasienter med sigdcelleanemi (SCA) i Uganda	Bjarne Robberstad, Chandy John, Richard Idro

4.4 MEDICAL STUDENT THESIS SUPERVISION (HOVEDOPPGAVER)

A number of CIH academic staff have also supervised medical students in their writing of their thesis (hovedoppgaver).

NAME	PROJECT TITLE	SUPERVISOR
Oda Cecilie Lødrup Carlsen	Physical activity in pregnancy	Cecilie Svanes
Elise Hansen	Keisersnitt-trenden i India	Ingvild Fossgard Sandøy
Ragnhild Halvåg	Skepticism to cesarean section in birth care: A qualitative study among rural and urban women in North Gondar Zone, Ethiopia	Karen Marie Moland, Astrid Blystad
Muhammed Oneeb Tanveer	Utfordringer ved diagnostikk og oppsporing av nye tilfeller av tuberkulose i ressursfattige høyendemiske områder	Tehmina Mustafa
Tale Saanum Alva O.L. Weium	Treatment outcomes of tuberculosis at a rural hospital in Tanzania 2017	Sven Gudmund Hinderaker
Therese R. Solås	Postpartum depression in Sri Lanka	Sven Gudmund Hinderaker
Ingrid H.N. Slettan Anne Sofie T.G. morseth	Treatment outcomes of tuberculosis at a rural hospital in Tanzania 2019	Sven Gudmund Hinderaker
Khadija Hassan Olow	Association between tuberculosis disease and occurrence of asthma and nasal allergy	Cecilie Svanes, Tehmina Mustafa
Emil Graf	Mental health assessment in children – a study of children and caregivers in the Philippines	Ingunn Marie S. Engebretsen

4.5 COMPLETED MASTERS IN GLOBAL HEALTH

NAME	PROJECT TITLE	SUPERVISOR	COUNTRY OF ORIGIN (APPLIED FROM)
Rahima Shikur Ahmed	Cost-effectiveness of sexual and reproductive health education and access to modern contraceptives to prevent unintended adolescent pregnancy in rural Ethiopia: an economic evaluation	Ole Frithof Norheim and Mieraf Tadesse	Ethiopia
Wondesen Nigatu Belete	Rolling out the HPV vaccine to prevent cervical cancer in Ethiopia: an economic evaluation	Kjell Arne Johansson	Ethiopia
Hannah Regitze Bond	A qualitative study exploring the acculturation processes among well adapted Somali females in Denmark	David Lackland Sam	Denmark
Ege Su Caglar	Cost analysis of LAR Bergen	Kjell Arne Johansson	Turkey
Hongyu Chen	Tuberculosis retreatment outcomes globally 2000-2017: A systematic review	Sven Gudmund Hinderaker	China
Shoaib Hassan	Pre-diagnostic cost of extrapulmonary tuberculosis from patient perspective in Zanzibar, Tanzania	Tehmina Mustafa and Bjarne Robberstad	Pakistan
Katja Jezkova Isaksen	Characteristics of parent-child sexuality communication in Zambia: A cross sectional study of adolescent girls and their parents	Ingvild Fossgard Sandøy	Norway
Marte Bodil Rød Lamp	Health Care and Support Systems for Women and Newborns Around Delivery in Buikwe District Uganda: A Qualitative Study	Ingunn Marie S. Engebretsen	Norway
Mizan Kiros Mirutse	The burden of household out-of-pocket health expenditure in Ethiopia: estimates from a nationally representative survey (2015-16)	Ole Frithof Norheim, Mieraf Tadesse and Solomon T. Memirie	Ethiopia
Laura Musta	Family Resilience of Ivorian Refugee Families Living in the Ampain Refugee Camp in Ghana	David Lackland Sam	Finland
Shuvashis Saha	Victims attending One-Stop Crisis Centres in Bangladesh – a study on Violence against Women	Kjersti Alsaker and Bente E. Moen	Bangladesh
Saima Samad	Comparing tuberculosis treatment outcomes in urban and rural areas of the Karachi, Sindh province of Pakistan	Sven Gudmund Hinderaker	Pakistan

4.6 MASTER CANDIDATES IN GLOBAL HEALTH

2019

NAME	SUPERVISORS	COUNTRY OF ORIGIN (APPLIED FROM)
Mihiret Wake Abza	Øystein A Haaland	Ethiopia
Yaw Opoku Agyei-Mensah	Anne Hatløy, Mariann Kjellevold and Peter Andersen	Ghana
Asia Ali Mohammed Aljiafiri	Elisabeth Nginamau	Sudan (Norway)
Ingvild Andresen	Karen Marie Moland	Norway
Rachana Aryal	Sven Gudmund Hinderaker	Nepal
Sarala Banjara	Cecilie Svanes	Nepal (Norway)
Gaël Beltrémieux	Kristine Bærøe	France (Norway)
Kala Chand Debnath	Xiao Liang, Daniella E Costea and Bryant Zhuoyuan Zhang	Bangladesh
Hailu Tamiru Dhufera	Solomon Tessema Memirie	Ethiopia
Nazia Islam Disha	Donald Gullberg	Bangladesh
Thabo Cebolenkhosi Dlamini	David Lackland Sam	Eswantini
Robert Nuifondieng Foncha	Sven Gudmund Hinderaker	Cameroon
Osman Goni	Marion Kusche-Gullberg	Bangladesh
Eline Henriksen	Kjell Arne Johansson	Norway
Genet Mulugeta Hirpesa	Øystein A Haaland	Ethiopia
Zarak Tariq Jan	Elisabeth Nginamau	Pakistan
Bhagya Janananda	Anne Hatløy, Mariann Kjellevold and Peter Andersen	Sri Lanka
Daria Kamelkova	Esperanza Diaz	Russia (Norway)
Celine Holm Karlsen		Norway
Shizza Khalid	Tehmina Mustafa	Pakistan
Juan Pablo López Cervantes	Cecilie Svanes	Mexico
Shokouh Makvandi-Nejad	Cecilie Svanes	Canada (Norway)
David Messing		USA (Norway)
Prince Chinonso Nnadozie	Sven Gudmund Hinderaker	Nigeria (Norway)
Anindita Tasnim Onni	Bente Moen and Magne Bråtveit	Bangladesh
Doaa Khalid Mohammed Osman	Tor Hervig	Sudan (Norway)
Sweta Pathak	Tor Strand and Catherine Swinger	Nepal (Norway)
Saman Riaz	Kurt Hanevik	Pakistan
Robin Mzati Sinsamala	Ingvild Sandøy	Malawi (Norway)
Dinbandhu Thakur Lohar	Daniela Costea	Nepal (Norway)
Varun Kumar Vijayakumar	Bernt Aarli and Tehmina Mustafa	India

2018

NAME	SUPERVISORS	COUNTRY OF ORIGIN (APPLIED FROM)
Olawale Adeosun	Karen Marie Moland and Astrid Blystad	Nigeria
Nikhil Arora	Catherine Swinger and Tor Strand	India (Norway)
Ahmed Barakat	Tehmina Mustafa	Egypt
Pierina Alexandra Benavente Velando	Ana Lorena Ruano	Peru
Prabina Bhattarai	Torkild Tylleskär	Nepal (Norway)
Gabriel Dillon	Graziella van den Bergh	Australia
Magalie El Hajj	Lone Holst	Lebanon
Dominika Gadowska (On leave)		Poland
Monica Njeri Gekonyo (On leave)	Anne Hatløy and Karen Marie Moland	Kenya
Olga Golburean	Daniela Costea and Ferda Özkaya	Romania (Norway)
Muluken Argaw Haile	Ole Frithjof Norheim	Ethiopia

Rut Elisabet Hovden Hanstveit	Tehmina Mustafa and Sven Gudmund Hinderaker	Norway
Mia Karoline Johansen	Amani Thomas Mori and Peter Hangoma	Norway
Stephen Kabanda	Bjarne Robberstad and Victoria Nankabirwa	Uganda
Heng Wei Khor	Karen Marie Moland and David Lackland Sam	Malaysia
Tehjeeb Noor	Ana Lorena Ruano	Bangladesh (Norway)
Nada M. A. Suliman	Anne Nordrehaug Åstrøm, Ferda Özkaya and Maria Julia Bidonde Torre	Sudan (Norway)
Shrijana Thapa	Karen Marie Moland and Marte Sandvik Haaland	Nepal
Ann Louise Toftesund	Manal Ibrahim Mustafa Sharafeldin, Anne Nordrehaug Åstrøm	Norway
Sebastian Vognstølen	Amani Thomas Mori and Anael Amani Mlacky	Norway

4.7 DOCTORAL DEGREES AWARDED



Akeza Awealom Asgedom

Dust exposure and associated respiratory health problems among particleboard workers in Ethiopia

Defense: 22.11.2019

He earned his BSc and MSc in Environmental Health at the Universities of Hawassa and Jimma Universities. He worked at the University of Wollo from 2009 to 2014. Since 2014 he has taught at the University of Addis Ababa.

Supervisors: Bente E. Moen and Magne Bråtveit



Paul Israel Nyarubeli

Occupational noise exposure levels and Hearing Loss among iron and steel

Defense: 21.10.2019

He currently working as a postdoctoral fellow in a collaboration between the Muhimbili University of Health and Allied Sciences in Dar es Salaam, Tanzania and the Centre for International Health, University of Bergen, Norway. The project is supported by the Norhed program in Norad.

Supervisors: Bente E. Moen, Magne Bråtveit and Alexander Tungu (MUHAS, Tanzania)



Temsunaro Rongsen-Chandola

Predictors of poor immune response to Rotavirus Vaccine in Infants

Defense: 05.02.2019

She works as a Senior Researcher at the Center for Health Research and Development, Society for Applied Studies, New Delhi, India. She is a doctor and holds a master's degree in epidemiology from the London School of Hygiene and Tropical Medicine. Her main expertise is large field-based clinical trials.

Supervisor: Tor A Strand Co-supervisor: Nita Bhandari



Eric Nagaonlé Somé

Breastfeeding patterns and mothers' health in HIV context in Sub-Saharan Africa

Defense: 12.04.2019

He is physician from Burkina Faso. He holds a Master (MPh) in Public Health from University Cheikh Anta Diop in Dakar, Senegal and a Master (MSc) in Epidemiology from University Victor Segalen 2 from Bordeaux, France. He has worked for more than 10 years as a general practitioner especially with HIV and AIDS patients. From 2012, he has been associated with the Burkina Faso National Health Research Institute.

Supervisor: Ingunn Marie S. Engebretsen Co-supervisors: Professor Torkild Tylleskär, Professor Nicolas Nagot and Professor Nicolas Meda



Anthony Waruru

Geo-spatial relationships to HIV prevention and treatment: coverage, trends and impact in Kenya

Defense: 28.06.2019.

He holds a bachelor's degree from Egerton University in Kenya in 1999 and a master's degree in international health from the University of Bergen in 2003. He is an epidemiologist working with the US Centers for Disease Control and Prevention in Kenya with a focus on HIV surveillance and evaluation. He has been a co-researcher in various national HIV surveys and has participated in developing national guidelines for HIV surveillance.

Supervisor: Torkild Tylleskär. Co-supervisor: Thomas Achia (CDC Kenya, Department of Health and Human Services, Nairobi/Kenya)



Endrias Markos Woldeesemayat

Active case finding of TB in southern Ethiopia: use of TB suspect registry and effect of indoor air pollution in the incidence of TB

Defense: 04.06.2019

He holds a Master of Public Health from the University of Addis Ababa. Since 2007, he has been a lecturer at Hawassa University, School of Public Health, Hawassa, Ethiopia.

Supervisor: Bernt Lindtjørn, Co-supervisor: Daniel Datiko (SNNRP Health Bureau, Ethiopia)

4.8 PHD CANDIDATES AT CIH

NAME	PROJECT TITLE	SUPERVISOR	CO-SUPERVISOR(S)	COUNTRY
Balikuddembe, Michael	LaD Tracker: A Smart Way to Escape the Illusion of Partography in Labour and Delivery	Tylleskär, Torkild	Wakholi, Peter	Uganda
Bungudo, Binyam Bogale	A study of Individualized Automated Feedback for Behavior Change Communication for Women Registered within Electronic Registries for Maternal and Child Health	Frøen, Frederik	Blom-Bakke, Kjerst	Ethiopia
Chokotho, Linda	Quality of Life and Functional Status of Patients with Femoral Shaft Fractures Treated with Intramedullary Nailing Compared to Patients Treated Conservatively: A Cohort Study	Young, Sven	Gjertsen, Jan-Erik / Hallan, Geir / Mkandawire, Nyengo	Malawi
Chowdhury, Ranadip	Predictors of neonatal and post-neonatal morbidity, care-seeking behaviours and mortality	Strand, Tor	Taneja, Sunita	Nepal
Dhingra, Usha	Evaluation of chlorhexidine cord care in first 10 days among newborns in Pemba Island on neonatal mortality and cord Infections	Nankabirwa, Victoria	Sommerfelt, Halvor / Murdoch, David / Sazawal, Sunil	Uganda
Dullie, Luckson	Contribution of family medicine to improving health systems in Africa	Gjesdal, Sturla	Meland, E./Mukherjee, J. / Mildestvedt, T.	Malawi
Eide, Kristiane T.	Etikk og reproduktiv helse: Etikk i politikk og praksis – grunnlaget for en rettferdig helsetjeneste	Bærøe, Kristine	Morken, Nils-Halvdan	Norway
Grønningen, Erlend	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
Hassan, Shoaib	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 Frithjof	Pakistan
Haaland, Marte Emilie Sandvik	The politics of abortion: An ethnographic study of the sociopolitical dimensions of access to fertility control and safe abortion in Zambia	Astrid Blystad	Moland, Karen Marie / Haukanes, Haldis	Norway
Hegdahl, Hanne Keyser	Young women's sexual and reproductive health behaviour, beliefs and risks in a sub-Saharan African setting	Sandøy, Ingvild	Musonda, Patrick	Norway
Hoel, Ida Marie	Improving diagnosis of extrapulmonary tuberculosis by implementation of a sensitive and specific assay in routine tuberculosis diagnostics	Mustafa, Tehmina	Sviland, Lisbet / Wiker, Harald	Norway
Hussain, Hamidah Farid	The effectiveness and cost-effectiveness of tuberculosis care through a public-private partnership in Pakistan	Robberstad, Bjarne	Tylleskär, Torkild	Pakistan
Höök, Susanna Myrner	M-health and new ways to support performance and decision-making during neonatal resuscitation	Tylleskär, Torkild	Alfvén, Tobias	Sweden
Jørstad, Melissa Davidsen	Improved diagnosis of tuberculosis by antigen detection from sputum and extrapulmonary samples by immunochemistry-based assays	Mustafa, Tehmina	Sviland, Lisbet	Norway
Kampata, Linda	Adolescent childbearing and contraceptive use in Zambia: trends, socio-economic patterns, and equity effects and cost benefits of an empowerment programme	Sandøy, Ingvild	Fylkesnes, Knut	Zambia
Kitetele, Faustin Ndolumingu	Mental health and HIV among children in the Democratic Republic of Congo	Espérance Kashala Abotnes	Tylleskär, Torkild / Lelo, Mananga	Democratic Republic of Congo
Kühl, Melf-Jakob	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	Engebretsen, Ingunn	Germany
Langat, Agnes	The loss of HIV exposed infants in care and its contribution to continued HIV transmission in Kenya.	Tylleskär, Torkild	John-Stewart, Grace	Kenya
Lelo, Patricia Vangu Matondo	Neurodevelopment and cognition of children affected by sickle cell anaemia in the Democratic Republic of Congo	Kashala-Abotnes, Esperance	Okitundo, Daniel / Sam, David Lackland / Boivin, Michael Joseph	Democratic Republic of Congo

Lungowe, Sitali	Malaria species distribution, diagnosis and falciparum artemisinin resistance in Southern Zambia	Lindtjørn, Bernt	Chipeta, James	Zambia
Melberg, Andrea	Global policies and the provision of birth care in primary health care facilities in Burkina Faso	Moland, Karen Marie	Tylleskär, Torkild	Norway
Mudenda, Mweetwa	Predictors of school enrolment, attendance and drop-out among adolescent girls in rural Zambia	Sandøy, Ingvild	Musonda, Patrick	Zambia
Mugisha, Alice	Adoption and Development Methodologies for Mobile Health Continuum Care Solutions	Tylleskär, Torkild	Sæbø, J.I. / Wakholi, P. / Nankabirwa, V. / Babic, A.	Uganda
Mukunya, David	Newborn care practices in Lira district, Northern Uganda: Prevalence, predictors, promoters and associated Morbidity	Tylleskär, Torkild	Tumwine, James / Moland, Karen Marie	Uganda
Mulwafu, Wakisa	Integration of ear and hearing care into primary health care in Malawi with special reference to task-sharing	Viste, Ausgaut	Golpen, Frederik / Cooper, Hannah	Malawi
Mwogi, Thomas Sang	Evaluation of Laboratory Workflow Process of a National Referral Hospital and Application of Relevant Health Informatics Solutions	Were, Martin (Moi University)	Tylleskär, Torkild	Kenya
Nakazwe, Chola	Assessing the changing HIV Epidemiology in Zambia: Using a National Population Based Survey Conducted in Zambia	Sandøy, Ingvild	Fylkesnes, Knut / Michelo, Charles	Zambia
Namakula, Rhoda	Examining adaptive and innate immunity in HIV exposed uninfected children	Hanevik, Kurt	Cose, Stephen / Nankabirwa, Victoria	Uganda
Namugga, Olive	Severe illness among infants in Uganda	Nankabirwa, Victoria	Sommerfelt, Halvor	Uganda
Ngoie, Leonard Banza	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 / MicNDwire, Nyengo	Malawi
Nima, Dawit Desalegn	Increasing awareness, skills and knowledge in medical ethics among Ethiopian health workers to build a caring, respectful and compassionate health system	Miljeteig, Ingrid	Norheim, Ole Fritjof	Ethiopia
Nkosi-Gondwe, Thandile	Severe anemia in malawian children	Blomberg, Bjørn	Phiri, Kamija	Malawi
Næss, Synnøve	Different levels of iodine intake in pregnant women and its possible effect on thyroid function and infant development	Markhus, Maria Wik	Strand, Tor A / Aakre, Inger (Havforskn.inst.)	Norway
Pejovic, Nicolas	Advanced interventions to improve neonatal outcome after intra-partum related events in low-resource settings: the role of LMA	Tylleskär, Torkild	Blennow, M / Ersdal, H / Alvé, T	Sweden
Pérez Barrionuevo, Antonio	The role of oral health and microbiome in respiratory health. A project based on the RHINESSA study	Svanes, Cecilie	Bertelsen, Randi / Åstrøm, Anne N.	Spain
Pervin, Jesmin	Mobile phone communication strategies and antenatal care utilization. A mixed-method study in rural Matlab, Bangladesh	Friberg, Ingrid	Frøen, Jahn Frederik / Rahman, Anisur	Banladesh
Riaz, Syeda Mariam	Pathogenesis of Human Post-Primary Tuberculosis: Novel insights from Norwegian archival tissue material of the pre-antibiotic era	Mustafa, Tehmina	Sviland, Lisbet / Helgeland, Lars	Pakistan
Riro, Matiko Solomon	Economic studies of using Dihydroartemisinin-Piperaquine, with and without Azithromycin, as an alternative to Sulphadoxine-Pyrimethamine for Intermittent Preventive Treatment in pregnancy for the control of malaria and co-infections in pregnancy in Kenya	Robberstad, Bjarne	Hill, Jenny	Kenya
Roro, Meselech	Malaria in pregnancy: A community based cohort	Lindtjørn, Bernt	Amante, Wakgari Deressa	Ethiopia
Rutagwera, Gatsinzi David	Cell-associated viral reservoirs and the risk of HIV-1 transmission through breast milk	Tylleskär, Torkild	Molés, Jean-Pierre / Tuaillon, Edouard	Uganda
Sanou, Anselme Simeon	Child development in Burkina Faso: Neuro-cognitive assessment in a rural community-based cohort children	Tylleskär, Torkild	Diallo, A. / Kashala-Abotnes, E.	Burkina Faso

Shanka, Tarekegn Solomon	Malaria Epidemiology and Prevention in Southern Ethiopia	Lindtjørn, Bernt	Shumbullo, Eskindir Loha / Amente Wikiri	Ethiopia
Shrestha, Jasmin	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 og Deminski, Jennifer Lynn	Nepal
Shrestha, Sanjaya	Astro virus and Non Polio Enterovirus carriage and association with diarrhea in a long term cohort study in children from a large community in Nepal	Strand, Tor	Vainio, K / Andreassen, Å / Dudman, S	Nepal
Sinha, Bireswar	Effect of community initiated kangaroo mother care in low birth weight infants on infant breast milk intake, gut inflammation, maternal depressive symptoms and stress	Sommerfelt, Halvor	Bhan, Maharaj Kishan / Bhandari, Nita / Bahl, Rajiv	India
Skylstad, Vilde	TREAT C-AUD: Childhood alcohol and substance use in Uganda and its associated somatic and psychosocial risk factors and outcomes	Engelbreten, Ingunn	Skar, Ane-Marthe S.	Norway
Solvik, Beate Stokke	The effect of fatty fish on vitamin status and indices of inflammation and metabolic illness: a randomized controlled trial in preschool children	Strand, Tor	Øyen, Jannike / Kvestad, Ingrid	Norway
Tahseen, Sabira	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
Tiam, Appolinaire	Assessing the effectiveness of innovative approaches to support the prevention of mother to child transmission of HIV-1 in resource-limited settings: the case of Lesotho	Tylleskär, Torkild	Guay, Laura	Lesotho
Tongun, Justin Bruno	Perinatal Mortality Juba Teaching Hospital	Tylleskär, Torkild	Mohamed Boy Sebit	South Sudan
Tumhamye, Josephine	Etiology of umbilical infection, severe bacterial illness, antibiotic resistance and associated risk factors in Newborns in Lira district, Northern Uganda	Nankabirwa, Victoria (Makerere University)	Sommerfelt, Halvor / Bwanga, Freddie / Tumwine, James	Uganda
Upadhyay, Ravi	Nutritional intervention during infancy to improve neurodevelopmental outcomes in resource constrained settings	Strand, Tor	Hysing, M. / Bhandari, N. / Taneja, S.	India
Varela, Carlos	Surgical burden and resource evaluation in Malawi	Viste, Asgaut / Moen, Bente E	Mkandawire, Nyengo / Groen, Reinou / Young, Sven	Malawi
Ødegård, Christine	Medication free treatment in psychosis: The meaning of choice for people with psychosis – A qualitative exploration	Engelbreten, Ingunn	Veseth, Marius / Stige, Brynjulf	Norway

4.9 JOINT PHD DEGREES

Joint PhD degrees with Makerere University, Uganda

NAME	PROJECT TITLE	SUPERVISOR	CO-SUPERVISOR(S)	COUNTRY
Napyo, Agnes Kasede	Universal art for elimination of mother-to-child transmission in Uganda (northern); facility delivery, adherence, exclusive breastfeeding and viral load	Tylleskär, Torkild	Tumwine, James / Nankabirwa, Victoria	Uganda
Odongkara, Beatrice	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, Torkild	Tumwine, James K. / Nankabirwa, Victoria	Uganda

Joint PhD Degrees with Hawassa University, Ethiopia

NAME	PROJECT TITLE	SUPERVISOR	CO-SUPERVISOR(S)
Abdo, Abdella Amano	Evaluating Maternal and Neonatal delivery outcome at Hawassa University Referral Hospital, Hawassa, South Ethiopia.	Hinderaker, Sven Gudmund	Tekle, Achemyeleash / Lindtjørn, Bernt
Alako, Samrawit Hailu	Common childhood illness and health service utilization in Wonago district, south Ethiopia. Acommunity based cohort study.	Lindtjørn, Bernt	Johansson, Kjell A. / Astatike, Ayalew
Alemayehu, Sewhareg Belay	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
Amare, Hiwot Hailu	Assessment of school health problems in Gedeo Zone, Southern Ethiopia	Lindtjørn, Bernt	Abegaz, Teferi
Areru, Hiwot Abera	Health and Demographic Surveillance System of Dale and Wonsho woredas (districts): A potential for enhancing health care delivery system	Lindtjørn, Bernt	Dangisso, Mesay Hailu / Kismul, Hallgeir / Moen, Bente
Dinage, Mehretu Belayneh	Seasonality and spatial distribution of malnutrition and treatment outcome of acute malnutrition among children aged 6-59 months in Boricha, Southern Ethiopia.	Lindtjørn, Bernt	Loha, Eskindir
Kabalo, Bereket Yohannes	Seasonal variation in food insecurity and undernutrition in rural Wolaita in Southwest Ethiopia	Lindtjørn, Bernt	Johansson, Kjell / Loha, Eskindir
Kea, Aschenaki	Maternal mortality in Sidama zone	Hinderaker, S.G.	Lindtjørn, Bernt / Tekle, Achamyelech
Kebede, Tsigereda Behailu	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	Engebretsen, Ingunn	Bilal, Selamawit
Kumma, Paulos Wondimagegn	Diet and nutrition in Wolaita, Southern Ethiopia	Eskindir Loha	Lindtjørn, Bernt / Moen, Bente E.
Orsango, Alemselem Zebdewos	Preventing iron deficiency anemia: Evaluation of amaranth grain supplementation to 24.0-59.9 month old children in southern Ethiopia, a randomized controlled trial	Engebretsen, Ingunn	Lindtjørn, Bernt / Shumbulo, Eskindir
Satato, Debitu Nane	Effect of local ingredient based supplementary food in treating Moderate Acute Malnutrition among children aged 24 to 59 months: A randomized controlled trial in Wolaita.	Hatløy, Anne	Balla, Elazar / Lindtjørn, Bernt / Moen, Bente
Seifu, Canaan Negash	Employment and motherhood: The impact of work on feeding and nutritional status of infant and young children in Wolaita	Hatløy, Anne	Lindtjørn, Bernt / Belachew, Tefera / Moen, Bente
Tadesse, Moges	Maternal and neonatal illness, health service utilization, and household expenditure in rural Ethiopia: A community based prospective cohort study	Lindtjørn, Bernt	Johansson, Kjell A. / Loha, Eskindir
Tesfaye, Solomon Hailemariam	Improving community based management of severe childhood Pneumonia at primary health care units in rural Ethiopia	Lindtjørn, Bernt	Johansson, Kjell A. / Loha, Eskindir
Zegeye, Hanibale Atsbeha	Molecular diagnosis of asymptomatic malaria and malaria drug resistance in South Ethiopia	Lindtjørn, Bernt	Loha, Eskindir / Nerland, Audun
Zewdie, Demmelash Mulualem	Effects of Eggshell Calcium Consumption on Body Fluoride Load and Mitigation of Dental and Skeletal Fluorosis among Mothers in Ethiopian Rift Valley	Engebretsen, Ingunn	Lindtjørn, Bernt / Loha, Eskindir / Whiting, Susan Joyce



Promise project meeting. Photo: Torkild Tylleskär



PhD Seminar in Rosendal. Photo: Torkild Tylleskär

5. PEOPLE

5.1 INTRODUCTION

People have many types of affiliations to CIH. We have tried to make these lists as correct as possible. Please forgive us if there are any mistakes.

Maria Emmelin

An extremely important external advisor at CIH is our Master Programme censor. She is responsible for giving feedback on the programme's structure and content. Professor Maria Emmelin, Professor of Global Health at Department of Clinical Sciences, Social Medicine and Global Health, Lund University, has undertaken this role for CIH for a number of years. She also has been actively involved in strategic discussions at CIH.

At Lund, her research has focussed on self-rated health and the social aspects of cardiovascular disease prevention in northern Sweden. She has extensive and varied Global Health experience. She has worked with the HIV/AIDS epidemic in Tanzania, smoking cessation in South Africa, reproductive health in Ethiopia, and violence against women (and children) in Ethiopia, Tanzania and Indonesia. She has a special competence in Qualitative Methodology and is a co-editor with Global Health Action.



Maria Emmelin. Photo: Private

Asela Perera

CIH has been fortunate to have a guest researcher from Sri Lanka in 2019. Dr. Asela Perera is a medical doctor, who has worked at various government hospitals in Sri Lanka both as a physician, and after completing a Master in Medical Administration, as a Medical Director. He now works as a Medical Administrator at the Sri Lankan Ministry of Health.

As a guest researcher, Perera has been involved in CIH activities, but his main focus is to fulfil the Sri Lankan demand for post-doctorate overseas training to get Board Certification and qualify as a Medical Specialist in Medical Administration. Perera's academic and professional focus is on Health System Research, Healthcare Quality, Safety and Clinical Governance, Global Health, Population Health/Epidemiology, and Health Care Administration. He has been working on a report that compares the Norwegian and Sri Lankan Health Systems.



Asela Perera. Photo: Private

5.2 SCIENTIFIC PERSONNEL

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%)
Engebretsen, Ingunn Marie S	Professor
Hatløy, Anne	Associate Professor (40%)
Hinderaker, Sven Gudmund	Professor (80%)
Lindtjørn, Bernt	Professor (until August 2019)
Mjaaland, Thera	Associate Professor (30%)
Moen, Bente Elisabeth	Professor
Moland, Karen Marie	Professor
Mustafa, Tehmina	Professor (50%)
Norheim, Ole Frithjof	Professor (Section for Ethics and Health Economics)
Robberstad, Bjarne	Professor (Section for Ethics and Health Economics)
Sandøy, Ingvild Fossgard	Professor (IGS employed)
Sommerfelt, Halvor	Professor
Steinsland, Hans	Researcher
Svanes, Cecilie	Professor (50%)
Tylleskär, Torkild	Professor
Sam, David Lackland	Professor (Faculty of Psychology employed)

TEMPORARILY EMPLOYED:

Abotnes, Espérance Kashala	Associate Professor (5%)
Barrionuevo, Antonio M.P.	PhD Candidate
Basnet, Sudha	Post Doctor (50%)
Frøen, Jahn Fredrik	Professor II (20%)
Emile Sandvik	PhD Candidate
Haaland, Marte	PhD Candidate
Hegdahl, Hanne Keyser	PhD Candidate
Hoel, Ida Marie	PhD Candidate
Höök, Susanne M	PhD Candidate
Isaksen, Katja	Lecturer from 21/10
Kühl, Melf-Jakob	PhD Candidate
Lønnebotn, Marianne	PhD Candidate
Martines, Jose Carlos	Researcher, Scientific Coordinator (80%)
Melberg, Andrea	PhD Candidate
Mori, Amani Thomas	Post Doctor
Mudenda, Mweetwa	PhD Candidate

Namakula, Rhoda	PhD Candidate
Namugga, Olive	PhD Candidate
Nankabirwa, Victoria	Post Doctor
Pejovic, Nicolas	PhD Candidate
Riaz, Syeda Mariam	PhD Candidate
Ruano, Ana Lorena	Associate Professor (20%)
Schwinger, Catherine	Post Doctor
Skylstad, Vilde	PhD Candidate
Svanemyr, Joar	Post Doctor (75%)
Strand, Tor A.	Adjunct Professor (20%)
Van Den Bergh, Graziella	Associate Professor (20%)
Venkateswaran, Mahima	Post Doctor

OTHER:

Fylkesnes, Knut Martin	Professor emeritus
Kvåle, Gunnar	Professor emeritus
Lindtjørn, Bernt	Professor emeritus (from August 2019)
Nilsen, Rune	Professor emeritus
Bjorvatn, Bjarne	Professor emeritus



Scientific personnel. Photo: Torkild Tylleskär

5.3 ASSOCIATED PERSONNEL

This list includes people who have helped CIH in 2019, with teaching or activities not otherwise mentioned in this annual report.

Kahtan Al-Azawy, HUS	Øystein Haaland, IGS
Kjersti Alsaker, HVL	Frode Ims, Comm. Division, UiB
Christian Bakke, Comm. Division, UiB	Frode Fadnes Jacobsen, HVL
Per Bakke, Dean, MED	Anne Christine Johannessen, K1 UiB
Randi J Bertelsen, K2, UiB	Kjell Arne Johansson, IGS
Nita Bhandari, Society for Applied Studies	Torvid Kiserud, HUS/UiB
Nancy Birungi, IKO	Ingrid Kvestad, NORCE
Bjørn Blomberg, K2	Siri Lange, HEMIL, UiB/CMI
Gunnar Bjune, UiO emeritus	Nina Langeland, Dean MED
Magne Bråtveit, IGS	Gro Therese Lie, Psyk (Emerita)
Asgeir Bårdsen, IKO	Reidar Lie, Faculty of Humanities, UiB
Daniela Costea, K1, UiB	Rolv Terje Lie, IGS
Wenche Dageid, Hemil, Faculty of Psychology, UiB	Eivind Meland, IGS
Esperanza Diaz, IGS	Ingrid Miljeteig, IGS
Jutta Dierkes, K1, UiB	Ottar Mæstad, CMI
Anne Ma Dyrhol-Riise, HUS	Kamal Mustafa, IKO
Øystein Elgen	Ole Jacob Møllerlækken, IGS
Maria Emmelin, Lund University	Catherine Namulindwa, Malta
Lars Tore Fadnes, IGS	Elwalid Fadul Nasir, IKO
Sturla Gjesdal, IGS	Øystein Evjen Olsen, SUS
Håkon Gjessing, IGS	Ernst Omenaas, HUS
Truls Gjestland, SINTEF	Hans Overgaard, NMBU
Siri Gloppen, CMI/UiB	Odd Pettersen, SINTEF
Ferda Gülcan, IKO	Pål Puntervoll, NORCE
Geir Halland, HUS	Francisco Gomez Real, HUS
Kurt Hanevik, K2	Ole Bjørn Rekdal, HVL
Harleen Grewal, K2, UiB	Trond Riise, IGS
Tor Halvorsen, SV, UiB	Guri Rørtveit, IGS
Rolf Hanao, IGS	Rolf Skjærven, IGS
Haldis Haukanes, Faculty of Psychology, UiB	Marion Solheim, MED
Sigrun Henjum, OsloMet	Johanne Sundby, UiO
Björg Eli Hollund, YMA, HUS	Lisbet Sviland, HUS/K1 UiB
Lone Holst, IGS	Eirik Søfteland, K1
Mari Hysing, NORCE	Tore Sætersdal, Global Challenges, UiB
Tane Holm Høisæter, Comm. Division, UiB	Gro Tjalvin, IGS

Eirik Joakim Tranvåg, IGS
 Bertil Tungodden, NHH/CMI
 Sandya S Visweswariah, Indian Inst of Science
 Magnus Vollset, IGS
 Sven Young, HUS/Malawi
 Irina Wagner, KIT, Nederland

Harald Wiker, K2, UiB
 Ketil Joachim Ødegaard, UiB/HUS
 Arild Aakvik, UiB
 Audun Aase, FHI
 Henriette Sinding Aasen, JUS
 Anne Norderhaug Åstrøm, IKO

5.4 ADMINISTRATIVE PERSONNEL

CIH is a part of Department of Global Public Health and Primary Care (IGS). The two share a joint administration with one overall Head of Administration. Many in administration work at least some time in both locations (CIH and Kalfarveien 31).

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

Leadership

Moen, Bente E.	Director/Professor at CIH
Rørtveit, Guri	Head of Department, IGS
Smith, Siri	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 (from April 2019)
Rosario, Carmeliza	Project administration CIH (to April 2019)
Schwinger, Catherine	Project administration CISMAL (to April 2019)
Straume, Ane	Project administration CISMAL (from April 2019)
Vikøren, Solfrid	Project Economist
Ipek, Filiz	Project Economist
Gundersen, Daniel	Consultant (on leave June-December)

In addition, Kjell Rune Sæle has helped with economic issues, Kirsti Nordstand with Education and Training issues, and apprentice Madeleine Lekva Økland to June 2019 with administrative tasks.

6. CONTRIBUTING TO BETTER HEALTH THROUGH THROUGH NETWORKING

6.1 INTRODUCTION

As a Centre, CIH is actively involved in establishing partnerships with other research institutions, and building networks – both research and training networks (although many networks involve both aspects). Some of this activity is presented in this Annual Report 2019, including highlights from the celebration of UiB's longest institutional collaboration – with Makerere University in Uganda.

6.2 MAKERERE – CELEBRATING A SUCCESSFUL 30-YEAR COLLABORATION

A common sight on the Makerere University campus are trees filled with Marabou storks (*Leptoptilos crumeniferu*), the unofficial national bird of Uganda, and intermediate Egrets (*Mesophoyx intermedia*). Both the birds and the tree itself form an excellent metaphor for a successful collaboration.

November 2019 a delegation from UiB travelled to Makerere University (Mak), Kampala, Uganda, to celebrate the 30th anniversary of inter-institutional collaboration between Mak and UiB. CIH Professor, Torkild Tylleskär, is the UiB coordinator of the collaboration. In addition to the celebration activities at Mak, there was a Breakfast Seminar at UiB in December to share highlights of the 30 year-collaboration with UiB faculty and staff. Reports, pictures and videos are available on the CIH web pages.



Marabou storks. Photo: Elinor Bartle



Mak Vice Chancellor, Barnabas Nawangwe, with the Mak-UiB coordinators, Torkild Tylleskär (UiB) and Ronald Semyalo (Mak). Photo: Elinor Bartle

The collaboration has focused on capacity development and research. It has evolved from a mentorship to a powerful mutual partnership. It started with helping to re-build the civil war-torn campus, and has grown to important collaborative research projects and training involving most Faculties at UiB. The success of the collaboration has made it a model for inter-institutional collaborations between Makerere and a number of other young, newly-established African universities, including Gulu University and Busitema University, in Uganda, as well as the University of Juba in South Sudan.



Christie Café Breakfast Seminar led by Torkild Tylleskär. Photo: Elinor Bartle

6.3 GLOBAL CHALLENGES

"Global Challenges affect us all — they are complex and interdisciplinary by nature, and at the University of Bergen, they influence how we work and collaborate across subject disciplines."

Centre for International Health hosts the Global Challenges – that is, CIH hosts the administration for this strategy area at UiB. The University Leadership decided in 2016 that Global Challenges should be one of UiB's three Strategic Areas. It builds on the university's long tradition of promoting excellent research and education in development-related research. A strategic Working Group has been established, with participants from all seven Faculties at UiB, as well as two student representatives and an observer from Christian Michelsen's Institute. The Deans at all seven University Faculties at UiB form a Steering Group. The priority period is from 2016 to 2022.

VISION

Our ambition is that the University of Bergen will be internationally recognized as a university that contributes to understanding and solving global challenges

MISSION

Our mission is to visualize and promote interdisciplinary research, innovative ideas and education relevant to global challenges at the University of Bergen.

PRIORITY AREAS

Global Challenges activity at the University of Bergen focuses on the unequal development of human life conditions globally – considering its causes and consequences, as well as its implications for resource use and potential remedies. The Sustainable Development Goals (SDGs) provide an overarching umbrella for this priority area. The United Nation's call to *"leave no one behind"* guides the priority area's thematic priorities, **Migration, Health, and Inequality**. Global Challenges includes all activities at the University of Bergen that contribute to the SDG agenda from this perspective.

ACTIVITIES

The activities related to the Global Challenges are described in detail in a separate annual report.

The activities related to research are:

- Providing seed funding for research
- Providing PhD scholarships
- Contributing to globally oriented PhD education
- Organizing meeting places for researchers
- Supporting relevant networks
- Visualizing and disseminating research
- Fostering cross-disciplinary initiatives at UiB
- Supporting external collaboration

The activities related to education are:

- Supporting inter-Faculty co-operation
- Increasing the visibility of current education initiatives
- Developing cross-disciplinary education activities
- Organizing meeting places for discussions



*Global Challenges strategy group meeting, Bekkjarvik, January 2019.
Photo: Bente Moen*



6.4 NORWEGIAN FORUM FOR GLOBAL HEALTH RESEARCH

The aim of Norwegian Forum for Global Health Research (Forum) is to promote high quality research, education and training that will improve health and health care for marginalized population groups in low- and middle income countries. It is an interdisciplinary network of academics and others, who work with or have an interest in Global Health. The Forum offers individual membership, which is free of charge. Members are entitled to news and information about Forum activities, conferences, and funding sources.

Forum was initiated in 2005 as an interdisciplinary network of individuals and Norwegian institutions working with, or having an interest in, Global Health and health research. From 2018, it became an autonomous advisory body to Global Health Norway and other institutions requiring scientific input in policy formulation. The Secretariat of Forum has been located at CIH from the start, run by Bente E. Moen, Gunhild Koldal and Ingvild Hope.

Autumn 2019, some members of the Forum Board went into action about Norway's 2020 National Budget. They wrote a commentary in Norway's independent news service for aid and development (Bistandsaktuelt) expressing concern about the lack of funding for Global Health research in the budget. Underlining the important research and expertise that Norwegian researchers have undertaken and contributed to global health issues, including contributing to the development of an Ebola vaccine, they argued that this need is ongoing if not

increasing and should be one of the items prioritised in Norway's research budget. They underlined that it is not enough to just support aid, one must also support research into aid and development activity. This is a merely important issue for Forum.

Forum Board members include: Bente E. Moen (Chair), Frode Forland (Vice-Chair), Nils Daulaire, Arne H. Eide, Jon Øyvind Odland, Katerini Storeng, Gunilla Kulla, Dawit Shawel Abebe, and Andrea Winkler. There are also 2 substitute members: Mahima Venkateswaran and Håkon Bolkan.

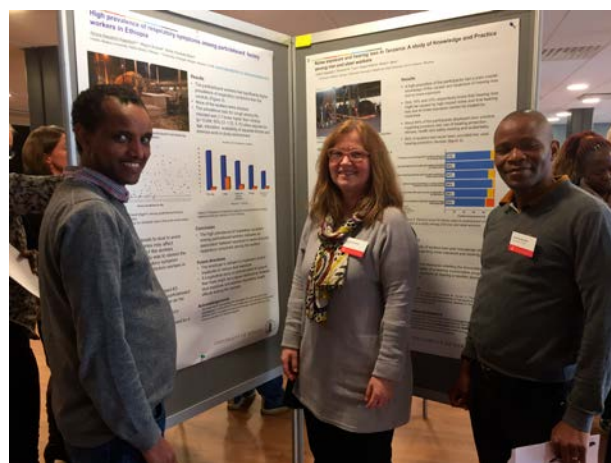
6.5 GLOBAL HEALTH NORWAY

Global Health Norway is a network of the major Norwegian institutions in the educational, hospital and research institute sectors involved in global health activities, including research, education and capacity strengthening. Global Challenges / Centre for International Health has run the Secretariat for this network since it started in 2017.

**GLOBAL
HEALTH
NORWAY**

The aims of the network are, among others, to

- Facilitate high quality in global health research and education in Norway
- Inform the public about Norwegian efforts and activities in Global Health
- Maintain an overview of global health projects and funding opportunities
- Promote inter-regional and inter-sectoral collaboration on research proposals
- Promote collaboration between the hospital sector, educational sector, the national research council, NGOs, the private sector and Norad.



Global Health Norway and Forum organized the conference, "Competence building for impact – time for revolution," in Bergen, April 2019. Posters from PhD candidates Akeaza Awealom (left) and Israel Nyarubeli (right) visited by Signe Marie Breivik from Norad. Photo: Bente Moen

The Board members in 2019:

Nina Langeland (leader), University of Bergen

Bjørn Iversen, Norwegian Institute of Public Health

Nina Emaus, University of Tromsø

Björn Gustafsson, NTNU

Ivar Gladhaug, University of Oslo

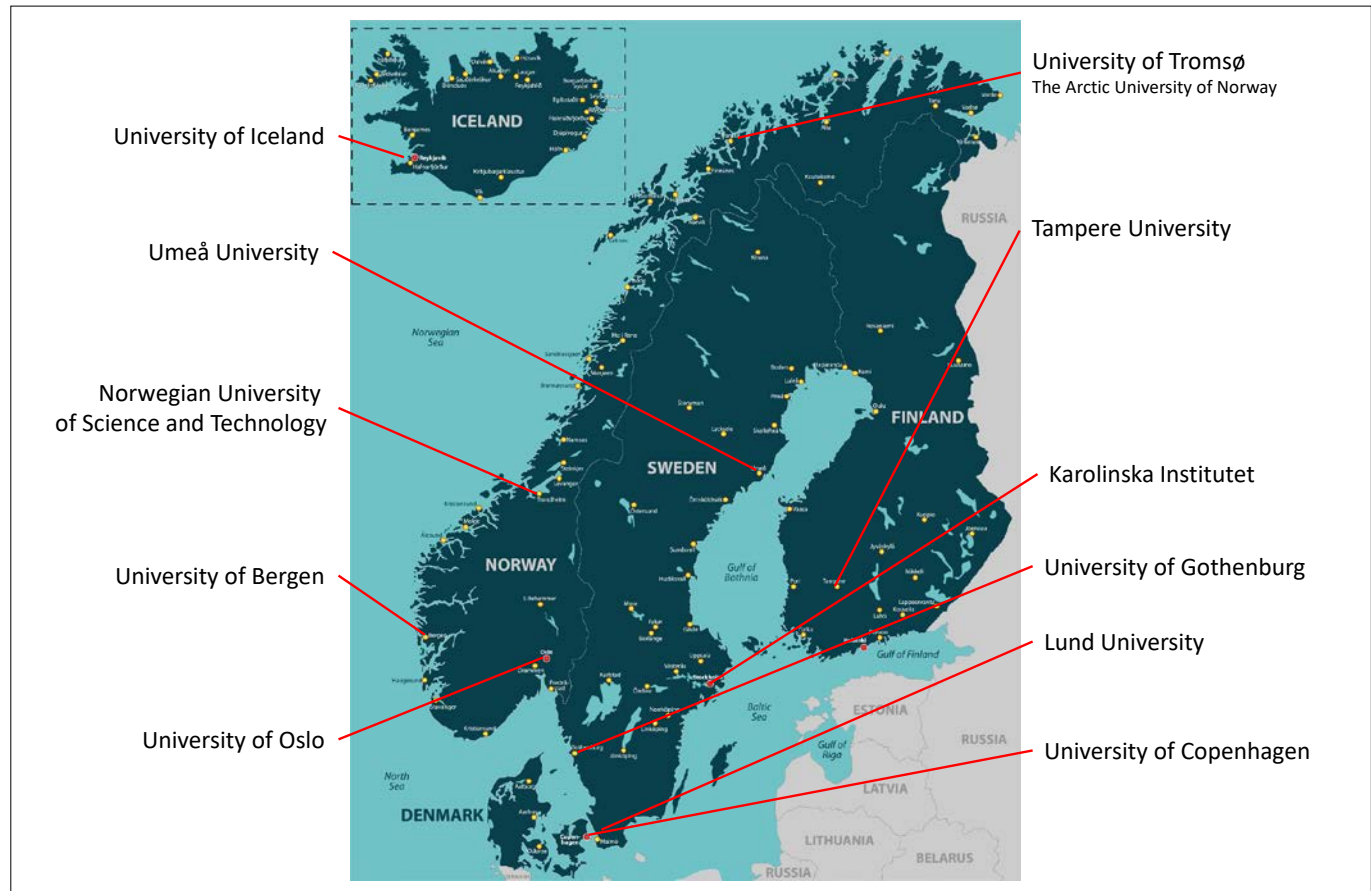
Øystein Krüger, Southern and Eastern Norway Regional Health Authority

Geir Tollåli, Northern Norway Regional Health Authority

Henrik A. Sandbu, Central Norway Regional Health Authority

Eli Renate Grüner, West Norway Regional Health Authority

6.6 NORDIC NETWORK ON GLOBAL HEALTH



Staff from seven Nordic universities started the three-year project 'Nordic network in Global Health' in 2017, funded by DIKU. The project was led by CIH the first two years: Professors KM Moland, A Blystad and BE Moen. In addition, Koldal and Gundersen from the administration have participated. In the third year, 2019, University of Umeå had the leadership. The university members have met several times over the past couple of years to discuss collaboration possibilities, and have also included more universities in this network. They have realised that by pooling resources, specialities and expertise, they together give students greater opportunities for even more varied and high quality Master training than is possible at any one institution. However, there are several obstacles for the co-operation, and student and staff exchange is not an easy task at the moment. In 2019, the Network established a website listing the educational opportunities for Master students at each institution. (uib.no/en/cih/120807/welcome-nordic-network-global-health)

7. CONTRIBUTING TO BETTER HEALTH THROUGH PUBLICATIONS

7.1 INTRODUCTION

CIH researchers from the list of permanent and temporarily employed scientific personnel, published around 130 publications in peer reviewed journals in 2019. This figure does not include other kinds of publications, nor the many academic presentations and posters CIH researchers have been involved in at conferences and seminars around the world.

As in previous years, please find the list of 2019 publications arranged by theme.

Adolescent health

Banda, Emmanuel; **Svanemyr, Joar; Sandøy, Ingvild Fossgard**; Goicolea, Isabel; Zulu, Joseph M. Acceptability of an economic support component to reduce early pregnancy and school dropout in Zambia: a qualitative case study. *Global health action* 2019; Volum 12. (1) s.1-8

Chandra-Mouli, Venkatraman; Ferguson, B. Jane; Plesons, Marina; Paul, Mandira; Chalasani, Satvika; Amin, Avni; Pallitto, Christina; Sommers, Marni; Avila, Ruben; Va Eceéce Biaukula, Kalisito; Husain, Scheherazade; Janušonyt, Eglé; Mukherji, Aditi; Nergiz, Ali Ihsan; Phaladi, Gogontlejang; Porter, Chelsey; Sauvarin, Josephine; Camacho-Huber, Alma Virginia; Mehra, Sunil; Caffé, Sonja; Michielsen, Kristien; Ross, David Anthony; Zhukov, Ilya; Bekker, Linda Gail; Celum, Connie L.; Dayton, Robyn; Erulkar, Annabel; Travers, Ellen; **Svanemyr, Joar**; Maksud, Nankali; Digolo-Nyagah, Lina; Diop, Nafissatou J.; Lhaki, Pema; Adhikari, Kamal; Mahon, Teresa; Manzenski Hansen, Maja; Greeley, Meghan; Herat, Joanna; Engel, Danielle Marie Claire. The political, research, programmatic, and social responses to adolescent sexual and reproductive health and rights in the 25 years since the international conference on population and development. *Journal of Adolescent Health* 2019; Volum 65. (6) S16-S40

Maharjan, Binita; Rishal, Poonam; **Svanemyr, Joar**. Factors influencing the use of reproductive health care services among married adolescent girls in Dang District, Nepal: a qualitative study. *BMC Pregnancy and Childbirth* 2019; Volum 19.(1) s.1-9

Svanemyr, Joar. Adolescent pregnancy and social norms in Zambia. *Culture, Health and Sexuality* 2019

Zulu, Joseph M.; **Blystad, Astrid; Haaland, Marte Emilie Sandvik**; Michelo, Charles; Haukanes, Haldis; **Moland, Karen Marie**. Why teach sexuality education in school? Teacher discretion in implementing comprehensive sexuality education in rural Zambia. *International Journal for Equity in Health* 2019; Volum 18.(1) s.1-10

Communicable diseases (except Malaria and Tuberculosis)

Fadnes, Lars T.; Aas, Christer Frode; Vold, Jørn Henrik; Ohldieck, Christian; Leiva, Rafael Alexander Mo; **Chalabianloo, Fatemeh**; Skurtveit, Svetlana; Lygren, Ole Jørgen; Dalgard, Olav; Vickerman, Peter; Midgard, Håvard; Løberg, Else-Marie; **Johansson, Kjell Arne**. Integrated treatment of hepatitis C virus infection among people who inject drugs: study protocol for a randomised controlled trial (INTRO-HCV). *BMC Infectious Diseases* 2019; Volum 19:943. s.1-9

- Kotloff, Karen L.; Nasrin, Dilruba; Blackwelder, William C.; Wu, Yukun; Farag, Tamer H.; Panchalingham, Sandra; Sow, Samba O.; Sur, Dipika; Zaidi, Anita K.M.; Faruque, Abu Syed Golam; Saha, Debasish; Alonso, Pedro L.; Tamboura, Boubou; Sanogo, Doh; Onwuchekwa, Uma; Manna, Byomkesh; Ramamurthy, Thandavarayan; Kanungo, Suman; Ahmed, Shah Nawaz; Qureshi, Shahida; Quadri, Farheen; Hossain, Anowar; Das, Sumon K.; Antonio, Martin; Hossain, Mohammad Jahangir; Mandomando, Inacio; Acácio, Sozinho; Biswas, Kousick; Tennant, Sharon M.; Verweij, Jaco J.; **Sommerfelt, Halvor**; Nataro, James Paul; Robins-Browne, Roy M.; Levine, Myron M. The incidence, aetiology, and adverse clinical consequences of less severe diarrhoeal episodes among infants and children residing in low-income and middle-income countries: a 12-month case-control study as a follow-on to the Global Enteric Multicenter Study (GEMS). *The Lancet Global Health* 2019; Volum 7.(5) s.e568-e584
- Lygren, Ole Jørgen Scheie; Bjørnstad, Ronny; Løberg, Else-Marie; Bonnier, Martine; Buljovic, Vibeke Bråthen; **Johansson, Kjell Arne**; **Fadnes, Lars Thore**. Peer involvement and cross-sector efforts in establishing integrated treatment of hepatitis C virus infection for people with substance use disorders: experiences from Norway. *Substance Abuse Treatment, Prevention, and Policy* 2019; Volum 14:58. s.1-7
- Vidal, Roberto M.; Muhsen, Khitam; Tennant, Sharon M.; Svennerholm, Ann-Mari; Sow, Samba O.; Sur, Dipika; Zaidi, Anita K.M.; Faruque, Abu Syed Golam; Saha, Debasish; Adegbola, Richard; Hossain, Mohammad Jahangir; Alonso, Pedro L.; Breiman, Robert F.; Bassat, Quique; Tamboura, Boubou; Sanogo, Doh; Onwuchekwa, Uma; Manna, Byomkesh; Ramamurthy, Thandavarayan; Kanungo, Suman; Ahmed, Shah Nawaz; Qureshi, Shahida; Quadri, Farheen; Hossain, Anowar; Das, Sumon K.; Antonio, Martin; Mandomando, Inacio; Nhampossa, Tacilta; Acácio, Sozinho; Omore, Richard; Ochieng, John B.; Oundo, Joseph O.; Mintz, Eric D.; O'Reilly, Ciare E.; Berkeley, Lynette Y.; Livio, Sofie; Panchalingam, Sandra; Nasrin, Dilruba; Farag, Tamer H.; Wu, Yukun; **Sommerfelt, Halvor**; Robins-Browne, Roy M.; Del Canto, Felipe; Hazen, Tracy H.; Rasko, David A.; Kotloff, Karen L.; Nataro, James Paul; Levine, Myron M. Colonization factors among enterotoxigenic *Escherichia coli* isolates from children with moderate-to-severe diarrhea and from matched controls in the Global Enteric Multicenter Study (GEMS). *PLoS Neglected Tropical Diseases* 2019; Volum 13:e0007037.(1) s.1-27
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Global health priorities, Ethics

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