1. FROM THE CENTRE DIRECTOR 3

2. RESEARCH 4
   INTRODUCTION 5
   2.1 17 GOALS TO TRANSFORM OUR WORLD 6
   2.2 CAPACITY BUILDING – CAPACITY STRENGTHENING 7
   2.3 CISMAC 9
   2.4 ANNIVERSARY HIGHLIGHTS 10
   2.5 FROM RESEARCH TO CLASSROOM 13
   2.6 MAIN RESEARCH PROJECTS 14

3. EDUCATION AND TRAINING 16
   INTRODUCTION 17
   3.1 MEDICAL STUDENT GLOBAL HEALTH COURSES 19
   3.2 COMPLETED MASTERS 21
   3.3 CANDIDATES IN MASTER PROGRAMMES 21
   3.4 DOCTORAL DEGREES AWARDED 22
   3.5 PHD CANDIDATES 24
   3.6 JOINT DEGREES 26

4. PEOPLE 28
   4.1 SCIENTIFIC PERSONNEL 29
   4.2 CIH BOARD 30
   4.3 ASSOCIATED PERSONNEL 31
   4.4 ADMINISTRATIVE PERSONNEL 32

5. NETWORKING 34
   5.1 NORWEGIAN FORUM FOR GLOBAL HEALTH RESEARCH 35
   5.2 GLOBAL HEALTH NORWAY 36
   5.3 GLOBAL CHALLENGES 37

6. PUBLICATIONS 2018 38

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.
The year 2018 has been very special, CIH has celebrated 30 years of work improving health in the poorer countries of the world. The anniversary celebrations in December gave us an opportunity to highlight both our ongoing, and previous work. We arranged a 12-hour birthday party, with more than 100 guests in the University Aula. In the various presentations and posters, CIH-ers clearly demonstrated their contributions including important research results, as well as capacity building in the South. To be the leader of such a competent unit is fantastic, and I am personally very grateful to be a part of CIH.

CIH is both visible to and clearly supported by the University of Bergen (UiB). The Centre has a central role in the work of the priority area “Global Challenges” at UiB, with a main focus on multi-Faculty co-operation. UiB has established itself as “the SDG University of Norway”; this makes all of CIH’s activities particularly relevant.

These days, support from both UiB and Faculty leadership is important, as there are increasing challenges relating to funding for CIH’s research activity. Two of our main funding programmes have finished: the Globvac programme at the Research Council of Norway (RCN), and the Quota scholarship system. Researchers at CIH are constantly looking for new funding opportunities. Some possibilities include establishing contacts with partners in the European Union, participating in new networks (e.g. CARTA, WUN) and engaging more in public debate relating to this area. However, obtaining external funding and running external financed projects, requires continuous support both from our Department and the Faculty of Medicine, and we would like to underline our need for a stronger research administration. Digital solutions alone are not sufficient to help us in our activity; we need more staff.

This year, the “Centre of Excellence” – Centre for Intervention Science in International Maternal and Child Health (CISMAC) was evaluated by RCN and allowed to continue for new 5 years. We congratulate CISMAC and are grateful for having the Centre within CIH.

During our building’s renovation period, we stayed longer in Jekteviken than originally planned, but in December we were able to move back to Overlege Daniellsens Hus (ODH). The building has undergone extensive renovations, and we are now located in the 4th and 5th floors, together with Global Challenges and the Section for Ethics and Economics, led by Bjarne Robberstad. It includes the research group, Global Health Priorities led by Ole F. Norheim.

Do come and visit us in our “new” house – we want to be a Centre for everyone who works in the area of global health and related topics. Let us work together, and welcome to CIH.

April 2019
Bente E. Moen
Director, CIH
2. RESEARCH
INTRODUCTION

Increasing interest in Global Health reflects a growing recognition that globalisation has consequences for public health that extend beyond national borders. First articulated in the Millennium Development Goals and then further in the Sustainable Development Goals (SDGs), the UN has led a global action to address global challenges. Health is strongly implicated in many of the 17 SDGs. Capacity-building and capacity-strengthening in low- and middle-income, resource-poor countries is a priority of Norway’s international outreach, and features prominently in the Research Strategy for [Norway’s] Foreign Service and Norad 2017–2024. All of these themes are central to CIH’s activity.

Research Prize 2018

CIH congratulates Ane Johannessen for being awarded the “Best Abstract Grant for Healthy Lungs for Life” at the European Respiratory Society’s Congress. Johannessen’s research adds to the evidence base on the societal impacts of breathing in polluted air, and the long-term effects of this on health.

A comprehensive list of CIH’s research projects is presented later in this chapter (2.6).
2.1 17 GOALS TO TRANSFORM OUR WORLD

The Sustainable Development Goals (SDGs) are a United Nations call for action by all countries – poor, rich and middle-income – to promote prosperity while protecting the planet. SDG Bergen is a University of Bergen (UiB) strategic initiative to engage with the SDGs. It includes science diplomacy and scientific advice to government and international organisations. Its highlight will be an annual conference to facilitate continuous discussion and to raise awareness in Norway’s university sector on how to provide evidence-based and SDG-relevant input to government and international organisations.

At the first UiB SDG Conference in 2018, a group of 10 researchers associated with the Centre for International Health (CIH) at UiB, were involved in a Workshop that addressed SDG Goal 3: Ensure healthy lives and promote well-being for all at all stages. They addressed the 9 main targets for this Goal. Streamed videos of the presentations are available on the CIH website.

- Target indicator 1: Maternal mortality, Professor Thorkild Tylleskär, CIH
- Target indicator 2: Neonatal mortality, Professor Halvor Sommerfelt, CIH / CISMAC
- Target indicator 3: Communicable diseases, Professor Tehmina Mustafa, CIH
- Target indicator 4: Non-communicable diseases, Professor Ingunn Engebretsen, CIH
- Target indicator 5: Substance abuse, Associate professor Lars Thore Fadnes, Department of Global Public Health and Primary Care, University of Bergen
- Target indicator 6: Traffic accidents, Dr. Sven Young, University of Malawi
- Target indicator 7: Reproductive health, PhD candidate Andrea Melberg, CIH
- Target indicator 8: Universal health coverage, Professor Bjarne Robberstad, CIH
- Target indicator 9: Environmental pollution, Professor Magne Bråtveit, Occupational and Environmental Health, University of Bergen.
2.2 CAPACITY BUILDING – CAPACITY STRENGTHENING

The Norwegian Ministry of Foreign Affairs in its Research Strategy 2017–2024, states, “the purpose of aid is to help countries to transition from low- to middle-income status”. The Strategy further states that “Strengthening universities and higher education institutions helps to build a strong academic sector, develop leaders and raise the educational level of the workforce [in developing countries],” thereby enabling “developing countries to plan, implement, communicate and use high-quality research so that they can identify and overcome their own challenges.”

Capacity-building, capacity-strengthening, building and fortifying strategic partnerships – such activities are the cornerstones of CIH’s research activity. In CIH’s Guidelines (2016), it states that CIH’s main tasks are to:

- Initiate, lead and coordinate health research and teaching that is particularly relevant for the underprivileged populations of the world.
- Lead research, teaching, researcher training and leader development in partnership with institutions in low- and middle-income countries, as well as contributing to institution development in partner countries.

Almost all on-going research activity at CIH includes capacity building in LMIC, here are some noteworthy examples from 2018:

- **Survival plus – a NORHED project in Uganda and South-Sudan**
  Entitled, “SURVIVAL PLUS: Increasing capacity for mama-baby survival in post-conflict Uganda and South Sudan”, the project aims to strengthen education and research in areas critical for mother-child survival. It involves a collaboration between 5 universities: University of Juba in South Sudan, 3 universities in Uganda; Gulu University, Busitema University, and Makerere University (host institution), and CIH at the University of Bergen.
A number of factors, including post conflict political instability, have resulted in South Sudan and Northern Uganda having very high burden of maternal and early childhood morbidity and mortality. This situation is aggravated by the fact that there are a very low number of health workers dedicated to maternal and child health in this area.

Giving capacity-building help to educate and train sufficient academic staff, enables these universities have a great potential to make significant and sustainable contributions to their country’s public health.

- **A joint PhD degree programme involving Hawassa University – University of Bergen (see 3.6)**
- **The School of Public Health in Lusaka, University of Zambia**

The academic partnership between CIH and the University of Zambia (UNZA) is an excellent example of capacity-building / capacity-strengthening. The collaboration began in 2001. The main partner at that time was the Department of Community Medicine at UNZA’s School of Medicine. Since 2001 a large number of PhD candidates from UNZA have been educated at CIH, largely supported by Norway’s Quota Programme.

The partnership involves a unique combination of high quality research, which has had important implications for national health policy, as well as enabling important competence-building at one of Africa’s key academic institutions. The research and researcher training activities cover a broad range of themes, as can be seen by the topics of the Zambian PhD theses: Epidemiology, demography, health economy, mental health, helsetfremjing, health services research, data security within HIV testing, mother-and child-health. Both qualitative and quantitative research methods were used in this research, and often combinations of these.

The partnership has meant that, over a relatively short period of time, Zambian institutions have increased their research competency in public health by a factor of 10! The high quality of the capacity-building is attested to by fact that UNZA is able to be a CISMAC partner.

The most visible and unique result of the CIH-UNZA partnership is that it has led to the establishment of an academic public health institution, the National School of Public Health at UNZA in 2017, which employs 40 research personnel. The Dean and many of the leadership personnel were trained at CIH.
2.3 CISMAC

CISMAC, the Centre for Intervention Science in Maternal and Child Health, is a Research Council of Norway Centres of Excellence (CoE), with dedicated 10-years of core funding. Unlike most CoEs, CISMAC consists of an international consortium of partners working together to improve maternal, newborn and child health in low- and middle-income countries. Most of the projects in its research portfolio are randomised control trials (RCT). They address unfinished issues in the global health agenda and seek to reduce the huge numbers of persistent, invisible, unacceptable and largely preventable tragedies in maternal, newborn and child health in poor countries and populations.

CoEs must undergo a mid-way evaluation to qualify for their second and final 5-year funding period. In 2018, CISMAC successfully completed this process. The evaluation report, written by a team of independent, international experts, underlined the high quality of the research and capacity-building activities at CISMAC and acknowledged its effective networking.

Many CIH researchers work in or with CISMAC. In 2018, CISMAC was included in the CIH Research School. The CIH-CISMAC Research School organises seminars, webinars and courses for PhD candidates at the centre. The school is also responsible for arranging PhD mid-term evaluations. Examples of activities organised by the school include courses in how to write scientific papers and how to produce scientific posters.

At the 30th Anniversary of CIH, December 2018, Halvor Sommerfelt, Director of CISMAC, and Assistant Director, Ingvild Fossgard Sandøy, presented some of CISMAC’s highlights. Scientifically, many of the large RCTs are moving towards completion and a number of smaller, spin-off studies have started analysing their data. These provide leadership opportunities for younger CISMAC researchers. The Centre has also increased its networking activity to bridge the vast geographical distances between partners, and to effectively transmit the knowledge being generated to the relevant decision-makers at local, regional, national, and international levels.
2.4 ANNIVERSARY HIGHLIGHTS

December 10th, 2018, CIH held a day-long seminar to celebrate 30 years of research and capacity-building in low- and middle-income countries. It was fittingly, also the day when the Universal Declaration for Human Rights was signed, 70 years ago.

Margareth Hagen, Pro-Rector at UiB, underlined how the work at CIH was important for UiB’s overall strategy. She said that there is a basic belief at UiB that universities share a global responsibility to put their knowledge to work for the best of humanity. This belief is reflected in the university’s 3 priority areas, one of which is global challenges. She concluded by saying – it is impossible to imagine UiB without CIH!

In his welcome, Per Bakke, the Dean of the Faculty of Medicine, UiB, highlighted three reasons why CIH is important to both the Faculty and university:

- the quality and breadth of its research activity will contribute to helping the UN attain its SDGs
- exchanges at both student and faculty level strengthen both host and partner institutions
- international activity provides a critical counterbalance to today’s nationalistic trends

Bakke also challenged CIH to be more active in the public domain, communicating beyond the scientific world. He says that it is vital that CIH’s research results are disseminated to politicians and policy-makers, and to the population at large.

Guri Rørtveit, the Head of Department at the Department of Global Public Health and Primary Care (IGS), drew attention to the high level of quality production at CIH: projects, papers, students … Rørtveit says that what makes CIH a special place is its people. She adds that 30 years steadily recruiting the most talented people who want to make a difference for marginalised populations is something to celebrate!
The day-long seminar featured an impressive number of academic presentations from across CIH’s broad research project portfolio. There were also posters, as well as thematic and panel discussions. (see programme page 12).

The day concluded with congratulations from 3 previous leaders of CIH.

Bjarne Bjorvatn, the first Director, underlined the long, close collaboration between CIH and UiB leadership.

Rune Nilsen had 4 points:

- the critical importance of strategic support at the Faculty of Medicine and at the University itself.
- ground the work in institutional partnerships
- focus on research training
- actively recruit the best scholars

Gunnar Kvåle underlined the importance of considering the impacts of climate change on global health.
From Past to Future in Global Health
Reflections after 30 years with Centre for International Health, University of Bergen
10th December 2018, 08:30–20:30 in the University Aula

PROGRAMME

Welcome
Prorector Magareth Hagen, UiB
Professor Per Bakke, Dean Faculty of Medicine
Professor Guri Rørtveit, Department leader, IGS

CIH 30 years cavalcade
Short video

Priority setting for Universal Health Coverage
Introduction
UHC and equity
Financial risk protection
Choosing the right services
Discussion: Making fair choices on the path to UHC
Chair: Ingrid Miljeteig, Associate Professor IGS
Professor Richard Cookson, University of York
Associate Professor Stephane Verguet, Harvard TH Chan School of Public Health
Professor Bjarne Robberstad, CIH
Professor Ole F Norheim, CIH-IGS

Global collaboration bears fruit
Capacity-building in South
• A School of Public Health
• Joint PhD programmes – A better way to strengthen capacity-building in the South?
• Educational programmes in South
Chair: Coordinator Tore Sætersdal, MED
Professor Knut Fylkesnes, CIH
Professor Bernt Lindtjørn, CIH
Professor Nina Langeland, K2
Participants:
Professor Andrea Winkler, UiO, Professor Jon Ø. Odland, NTNU, Dept. Dir. Bjørn G. Iversen, FHI, PhD candidate Andrea Melberg, PhD candidate Thandile Nikosi-Gondwe
Moderator: Bente E. Moen

Global Health Research at CIH
CISMAC – the consortium and vision
A CISMAC project: Can empowerment of girls reduce adolescent childbearing?
Chair: Professor Cecilie Svanes
Professor Halvor Sommerfelt, CISMAC/CIH
Professor Ingvild Sando, CISMAC/CIH/IGS

Oral health in young people – experiences from East Africa
The global burden of oral cancer
Chair: Professor Anne Nordrehaug Åstsrøm, IKO
Professor Anne-Christine Johannessen, K1

The law and access to safe abortion services in Ethiopia, Zambia and Tanzania
• When abortion becomes public: A case from rural Zambia
• Global indicators and maternity care documentation in rural Burkina Faso
Chair: Professor Astrid Blystad and Karen Marie Moland, CIH-IGS
PhD candidate Marte Haaland, CIH
PhD candidate Andrea Melberg, CIH

Biomarkers of TB disease and treatment response in Indian children
Developing a new test for extrapulmonary TB
Delivery strategies of post-discharge malaria chemoprevention (PMC) in children with severe anaemia in Malawi
Status for developing a new vaccine – ETEC
Chair: Professor Marit Bakke
Professor Harleen Greval, K2
Professor Tehmina Mustafa, CIH
PhD candidate Thandile Nikosi-Gondwe, CIH
Researcher Kurt Hanevik, K2

Discovering Konzo
Konzo today
The children of Konzo
Chair: Professor Sven G Hinderaker
Professor William Howlett, KCPC, Tanzania
Professor Thorold Tylleskär, CIH
Researcher Esperance Abotnes, CIH

Understanding immigrants youth adaptation
B-vitamins, peanut butter, shit, snot, and zinc: 20 years of nutritional trials in Nepal and India
*Intervention research in the era of undernutrition and HIV, experiences and reflections from the PROMISE consortium*
Nutrition, a new transdisciplinary project
Chair: Professor David L Sam, ISP and CIH
Professor Tor Strand, CIH
Professor Ingunn Engbrethsen, CIH
Professor Jutta Dierkes, K1
Participants:
Professor Andrea Winkler, UiO, Professor Jon Ø. Odland, NTNU, Dept. Dir. Bjørn G. Iversen, FHI, PhD candidate Andrea Melberg, PhD candidate Thandile Nikosi-Gondwe
Moderator: Bente E. Moen

Panel discussion: Center activities in the future. Partners? Topics? Methods? Location?

Comments from former directors at CIH
Birthday greetings to CIH

IGS = Department of Global Public Health and Primary Care, MED, University of Bergen
CIH = Centre for International Health
K1 = Department of Clinical Medicine, MED, UiB

Photo credits
AB = Astrid Blystad
BL = Bernt Lindtjørn
BM = Bente Moen
EB = Elinor Bartle
EWB = Emil Weatherhead Breistein
IE = Ingunn Marie S. Engebretsen
IS = Istockphoto
KM = Karen Marie Moland
TM = Tehmina Mustafa
TT = Thorkild Tylleskär
2.5 FROM RESEARCH TO CLASSROOM

UiB prioritises research-based education. This is clearly demonstrated in the researcher training (Master and PhD programmes) at CIH. The course work taught is strongly grounded in the research experience of the Professors teaching the classes. Students thus are exposed to research activity that is prize-winning, impacts health policy, is ground-breaking, involves huge data-sets, and more.

The real-life experiences that CIH researchers bring to the classroom are unique and provide motivational learning opportunities for students.

Lira, Uganda. Photo: Thorkild Tylleskår
## 2.6 MAIN RESEARCH PROJECTS

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>DURATION</th>
<th>PROJECT LEADER</th>
<th>FUNDING SOURCE</th>
<th>COLLABORATION WITH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Zinc as an adjunct for the treatment of very severe disease in infants younger than 2 months</td>
<td>2014–2019</td>
<td>Bhatnagar, Shinjini</td>
<td>NFR/GLOBVAC</td>
<td>Asia</td>
</tr>
<tr>
<td>4. Improving diagnosis of extrapulmonary tuberculosis by implementation of a sensitive and specific assay in routine tuberculosis diagnostics</td>
<td>2014–2019</td>
<td>Mustafa, Tehmina</td>
<td>NFR/GLOBVAC</td>
<td>Africa</td>
</tr>
<tr>
<td>5. New Vaccine against traveler’s diarrhea caused by ETEC</td>
<td>2016–2019</td>
<td>Barczyk, Malgolzata/ Sommergelt/Halvor</td>
<td>NFR/BTO</td>
<td>Europe</td>
</tr>
<tr>
<td>7. Inclusive evaluation of public health interventions</td>
<td>2027–2021</td>
<td>Norheim, Ole Frithjof</td>
<td>NFR</td>
<td>Africa, Europe, USA</td>
</tr>
<tr>
<td>11. HI-TRAIN – Health Informatics training and research in East Africa for improved health care</td>
<td>2013–2019</td>
<td>Tylleskår, Thorkild</td>
<td>NORHED</td>
<td>Africa</td>
</tr>
<tr>
<td>12. SENDUPH – South Ethiopia Network of Universities in Public Health (SENUPH) aims to improve women’s participation in post graduate education</td>
<td>2014–2019</td>
<td>Lindtjørn, Bernt</td>
<td>NORHED</td>
<td>Africa</td>
</tr>
<tr>
<td>13. Reduction of the burden of injuries and occupational exposures through capacity building in low income countries.</td>
<td>2014–2019</td>
<td>Moen, Bente Elisabeth</td>
<td>NORHED</td>
<td>Africa</td>
</tr>
<tr>
<td>15. Exploring the role of helminths in the global allergy epidemic</td>
<td>2018–2020</td>
<td>Svanes, Cecilie</td>
<td>Worldwide Universities Network</td>
<td>Europe</td>
</tr>
<tr>
<td>17. ETECVAC, Development of a vaccine for enterotoxigenic E. coli based on the heat-stable toxin</td>
<td>2014–2019</td>
<td>Sommerfelt, Halvor</td>
<td>NFR</td>
<td>Asia</td>
</tr>
<tr>
<td>18. Impact of vitamin B12 on neurodevelopment and cognitive function from early life into school age, the Vita beginning-collaboration.</td>
<td>2014–2019</td>
<td>Strand, Tor A</td>
<td>NFR</td>
<td>Asia</td>
</tr>
<tr>
<td>19. ALEC, Aging Lungs in European Cohorts</td>
<td>2015–2019</td>
<td>Svanes, Cecilie</td>
<td>EU</td>
<td>Europe</td>
</tr>
<tr>
<td>No.</td>
<td>Title</td>
<td>Year</td>
<td>Principal Investigator</td>
<td>Institution/Project</td>
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<tr>
<td>-----</td>
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<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>24</td>
<td>Strengthen Health Economics Capacity at Bergen and MUHAS</td>
<td>2017–2021</td>
<td>Robberstad, Bjarne</td>
<td>SIU</td>
</tr>
<tr>
<td>25</td>
<td>Strengthening Health Systems and health care implementation through Network based graduate training and research education in Zambia</td>
<td>2017–2022</td>
<td>Sandøy, Ingvild Fossgard</td>
<td>SIU</td>
</tr>
<tr>
<td>26</td>
<td>Disease Control Priorities – Ethiopia</td>
<td>2016–2020</td>
<td>Norheim, Ole Frithyof</td>
<td>Bill &amp; Melinda Gates Foundation</td>
</tr>
<tr>
<td>27</td>
<td>The effect of Vitamin B12 supplementation in Nepali Infants on Growth and Development</td>
<td>2014–2019</td>
<td>Strand, Tor A</td>
<td>Thasher Research Found</td>
</tr>
<tr>
<td>29</td>
<td>Save the children Finland</td>
<td>2017–2019</td>
<td>Engebretsen, Ingunn</td>
<td>Save the Children Finland</td>
</tr>
<tr>
<td>30</td>
<td>Vitamin B12 og hjerneutvikling hos barn i Nepal</td>
<td>2017–2019</td>
<td>Strand, Tor A</td>
<td>GC Rieber fondet</td>
</tr>
<tr>
<td>32</td>
<td>Prevention of mother-to-child transmission of hiv-1: program evaluation and innovative rescue intervention integrated in the expanded program of immunization</td>
<td>2018–2021</td>
<td>Tylleskär, Thorkild</td>
<td>EU-EDCTP</td>
</tr>
<tr>
<td>34</td>
<td>Impacting womens rights</td>
<td>2016–2019</td>
<td>Blystad, Astrid</td>
<td>NFR</td>
</tr>
<tr>
<td>36</td>
<td>Problematic Pregenancies – An ethnographic study of the sociopolitical dimensions of access to fertility control and safe abortion in Zambia</td>
<td>2018–2019</td>
<td>Haaland, Marte Emilie Sandvik</td>
<td>Meltzerfondets</td>
</tr>
<tr>
<td>37</td>
<td>Opphold som gjesteforsker ved University of Sussex</td>
<td>2018–2019</td>
<td>Melberg, Andrea</td>
<td>Meltzerfondets</td>
</tr>
</tbody>
</table>
3. EDUCATION AND TRAINING
INTRODUCTION

The staff at CIH are responsible for different types of education and training activities, ranging from teaching students in the medical programme at the Faculty of Medicine, to teaching and supervising Master and PhD candidates. Highlights include:

• **CIH’s new Master programme in Global Health**, offered for the first time in 2018.
• Participation in Master course collaborations with TropEd.
• CIH-CISMAC Research School: In 2018, the research schools at CIH and CISMAC were combined.
• **Bergen Summer Research School (BSRS)**: CIH researchers are active contributors to this programme.

CIH is also committed to trying to disseminate information about Global Health more widely. There are several online and public outreach initiatives (more information below). In addition, CIH has around 60 PhD candidates. Most are only in Bergen for short periods. To be better acquainted with the important ongoing research activity being conducted by this group, CIH is profiling the candidates on the web.

**New Master in Global Health at CIH**

CIH’s Master’s degree in Global Health has been developed by merging a Master in International Health and a Master in Oral Sciences. It qualifies candidates for positions in academia, international organizations and public administration.

The programme includes one year of courses and a whole year dedicated to working on the Master project. Candidates are introduced to current issues in global health and will be equipped with the methodological skills necessary to carry out research projects on these topics. 

This Master programme places a particular emphasis on research methodology, and students will be able to tailor the methodological training they learn in the various elective courses in both qualitative and quantitative research methods. During the programme’s second year, students plan and carry out data collection under the supervision of academics who are leaders in their fields. CIH provides their Master candidates with unique opportunities abroad, either carrying out fieldwork or taking courses during stays in partner institutions in both Europe and LMICs.

**Nutrition**

CIH is involved in education at both BSc and Master level in Nutrition, in close co-operation with the Department of Clinical Medicine (K1).
CIH at BSRS 2018: Global Challenges

Bergen Summer Research School was held for the 11th consecutive year June 2018. The 2-week, international gathering included 93 PhD students in 2018. Ole Frithjof Norheim was the scientific leader and the programme included 6 discipline-specific courses. CIH researchers were responsible for 2. Norheim led “Fair priority setting in global health” and Anne Hatløy was co-leader for “Food and nutrition insecurity”.

Education and Training Beyond CIH: Online Activity

With the discontinuation of the Quota programme in 2016, researchers at CIH have been looking into other means for offering education and training to students in low-income countries. While CIH researchers feel that the programme made a significant contribution to capacity building in these countries, and are lobbying actively for the establishment of a similar programme, online courses can increase accessibility and can give such students access to courses in subjects that are unavailable to them locally.

CIH HAS 2 MOOCS (AVAILABLE ON FUTURELEARN)

A total of 12 688 students from 159 different countries have registered to take the MOOC in Occupational Health in Developing Countries. Led by Bente E. Moen, the course has been offered 6 times since 2016.

The second CIH MOOC is led by Ingvild Fossgard Sandøy, and is about Medical Peace Work. At the end of 2018, the course had been offered 3 times. Nearly 3700 students from 145 different countries have been enrolled.
VIRTUAL MOBILITY IN TWO NEW COURSES

CIH is a member of the TropEd network. Together with two other institutions in the network and funded by Erasmus+, Tehmina Mustafa and Sven Gudmund Hinderaker have developed an online course in “Global Tuberculosis Epidemiology and Intervention”. The online course has been offered twice so far.

In the same project, Karen Marie Moland has developed the course “Qualitative research methods for global public health” leads this course, which is offered online in alternate years. See the course web page for more information.

MAKING SPECIALIST INFORMATION AVAILABLE

Similar to the Occupational Health course, courses in Neurology have been uncommon or impossible to find in Africa. William Howlett has written a textbook on the subject that has been freely available on internet for a number of years. Now Howlett has made videos to complement many of the chapters. These are also freely available on YouTube.

NEW OPEN SOURCE PLATFORM: OPEN EDUCATIONAL RESOURCES (OER) COMMONS

CIH / UiB, together with the University of Copenhagen and the University of Uppsala, is part of a global action to improve the practice of continuous learning, collaboration, and change in the education sector. Open Educational Resources (OER) Commons is a portal, which has been developed and powered by the Institute for the Study of Knowledge Management in Education (ISKME), in California. It opened in September 2018.

The 3 Nordic Universities have collaborated to develop a Global Health hub in OER Commons that includes 15 topics ranging from general topics to specific infectious diseases. The project is funded by Norplus – Nordic Higher Education. Between 1 and 65 resources are included in each topic! These resources include videos, photos and lectures. They are free and available for anyone, and may be particularly relevant for global health teachers in regions with limited resources.

SAFEZT – “EDUTAINMENT” – VISUAL PUBLICATIONS

SAFEZT is a large RCN-Norglobal research project that is studying the competing discourses impacting girls' and women's rights, fertility control and safe abortion in Ethiopia, Zambia and Tanzania. SAFEZT researcher, Thera Mjaaland, used humour/”edutainment” in adolescent sexual and reproductive health programmes. Working with young people in these countries, she has made 5 videos that are freely available on YouTube in both English and Trigrinya. The message is being spread. The videos have generated several hundred thousand views.

3.1 MEDICAL STUDENT GLOBAL HEALTH COURSES

The Faculty of Medicine at UiB recently undertook a thorough re-organisation of its medical school curriculum, to better equip students to address the ongoing extensive developments in medical knowledge, as well as to expose students to patients at an earlier phase in the 6-year period, better motivating them for the long study period.

CIH’s two courses in Global Health for medical students continue to be a part of this revised curriculum. Sven Gudmund Hinderaker is the current course leader for both courses, and many at CIH contribute with their particular expertise.
A number of issues are common to both courses, but are addressed more comprehensively in the elective course. These include:

- development and poverty-related health problems
- disease diagnostics, classification, treatment, prevention.
- health indicators, demography, health systems, public health, human rights
- roles of doctors in epidemics, conflicts and catastrophes.
- compulsory Global Health Course (formerly “International Health”)

Because practising doctors in today’s world have a growing need for a global perspective in terms of health issues and good understanding of globalisation’s consequences on public health, all medical students take a mandatory, one-week long course in Global Health, which is currently offered in semester 6.

**Elective Global Health Course**

CIH has been responsible for organising the elective course in Global Health since 2008. In the re-organised medical curriculum, this course is offered in semester 7. The theoretical material is taken first, together with the students in the Global Health Master course at CIH. The second part of the course is a 2-month field experience abroad in a low-income country. The course continues to be very popular – with 15–30 students taking it every autumn. In 2018, students from the Faculty of Psychology were included in the course, for the first time.

**Medical students in research programme**

The Medical Student Research Programme is a special offer to a group of medical and dental students who have a special interest in research and are willing to do research in parallel with their studies. CIH researchers were responsible for supervising 10 medical students in this programme in 2018.

<table>
<thead>
<tr>
<th>NAME</th>
<th>PROJECT TITLE</th>
<th>SUPERVISOR</th>
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<tbody>
<tr>
<td>Brendbekken, Audun</td>
<td>Har norske helsepolitikser prioteringer legitimitet i samfunnet?</td>
<td>Ole Frithjof Norheim, Bjarne Robberstad</td>
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<td>Cetin, Kaya Sinem</td>
<td>Moral distress among health workers using Maternal and Perinatal Death</td>
<td>Ingrid Miljeteig</td>
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<td>Surveillance and Response System (MPDSRs) in selected Ethiopian hospitals</td>
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<td>– a qualitative study</td>
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<td>Enden, Marta Rattingen</td>
<td>Cost-benefit and equity analysis of family planning in Ethiopia</td>
<td>Ole Frithjof Norheim, Mieraf Tolla</td>
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<td>Eriksen, Sara</td>
<td>Tillit som fundament for helsehjelp</td>
<td>Ole F. Norheim, Kristine Bærøe</td>
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<td>Halvåg, Ragnhild Sarboen</td>
<td>Exploring the feasibility and acceptability of introducing symphysiotomy</td>
<td>Karen Marie Moland, Torvid Kiserud, Astrid Blystad</td>
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<td></td>
<td>in emergency obstetric care in rural Ethiopia. A formative qualitative study</td>
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<td>McLean, Emily</td>
<td>Abortion in Ethiopia. Legislation, access to services and the public debate</td>
<td>Ingrid Miljeteig, Astrid Blystad</td>
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<td>Olsen, Maria</td>
<td>Costs and impacts of scaling up coverage of integrated management of neonatal</td>
<td>Ole F. Norheim/Memirie Solomon</td>
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<td>and childhood illness (IMNCI) through second generation health extension</td>
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<td>workers in Ethiopia</td>
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<td>Pannu, Mehmajeet Kaur</td>
<td>Malaria chemoprevention for the post-discharge management of severe anaemia</td>
<td>Bjarne Robberstad, Gry Wester, Ole F. Norheim</td>
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<td>in children in Malawi, Uganda and Kenya</td>
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<td>Svege, Sarah</td>
<td>Caretakers acceptability of different delivery mechanisms of post malaria</td>
<td>Bjarne Robberstad/Siri Lange</td>
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<td>chemoprevention (PMIC) IN Malawi</td>
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<td>Teigen, David</td>
<td>Kostnadsseffektivitet av behandling med Hydroksyrurea hos pasienter med</td>
<td>Bjarne Robberstad, Chandy John, Richard Idro</td>
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<td>sigdcelleanemi (SCA) i Uganda</td>
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### 3.2 COMPLETED MASTERS

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<th>NAME</th>
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<tbody>
<tr>
<td>Baral, Dibash</td>
<td>Fatigue and occupational exposure to anaesthetic gases among nurses in two</td>
<td>Moen, Bente E. / Bråtveit, Magne</td>
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<td>hospitals in Nepal</td>
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<td>Banja, Suraj</td>
<td>Body weight and tuberculosis treatment outcomes in Kaski district, Nepal</td>
<td>Hinderaker, Sven Gudmund</td>
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<td>Ben Mohammed, Fatima</td>
<td>The Exostosin family: gene expression profiles and heparan sulfate mediated</td>
<td>Kusche-Gullberg, Marion</td>
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<td>signaling in oral cancers</td>
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<td>Kapali, Akash</td>
<td>Isoniazid Preventive therapy to children under five in households with</td>
<td>Hinderaker, Sven Gudmund</td>
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<tr>
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<td>tuberculosis patients in Kathmandu valley, Nepal</td>
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<tr>
<td>Kjaer, Ingrid</td>
<td>Young female sexuality in Lusaka, Zambia: Trapped between contemporary</td>
<td>Moland, Karen Marie</td>
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<td>realities and co-existing discourses</td>
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<td>Munir, Arooj</td>
<td>Bioactive copolymer scaffold delivering human demineralised dentine matrix for</td>
<td>Suliman, Salwa / Lygre, Henning</td>
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<td>bone regeneration</td>
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</table>

### 3.3 CANDIDATES IN MASTER PROGRAMMES

**BEGINNING IN 2016 (2016–18)**

- Alhousain, Mohamad Hashem
- Benjw, Rashmi
- Jensen, Elise
- Khabiri, Mahsa
- Klepper, Amalie Kaldefoss
- Olow, Khadija Hassan
- Rahman, Yahia Khan
- Riaz, Sabia Huma
- Saleem, Ragda
- Ugelvik, Gunhild Stelen

**BEGINNING IN 2017 (2017–19)**

- Gajurel, Rashmi
- Jensen, Elise
- Khabiri, Mahsa
- Klepper, Amalie Kaldefoss
- Olow, Khadija Hassan
- Rahman, Yahia Khan
- Riaz, Sabia Huma
- Saleem, Ragda
- Ugelvik, Gunhild Stelen

**BEGINNING IN 2018 (2018–20)**

- Alhousain, Mohamad Hashem
- Gajurel, Rashmi
- Jensen, Elise
- Khabiri, Mahsa
- Klepper, Amalie Kaldefoss
- Olow, Khadija Hassan
- Rahman, Yahia Khan
- Riaz, Sabia Huma
- Saleem, Ragda
- Ugelvik, Gunhild Stelen

**Note:** (DELAYED) indicates candidates who started their studies later than the specified year.
3.4 DOCTORAL DEGREES AWARDED

Angela Akol
Access to Child and Adolescent Mental Health Services in Uganda: Investigating the Role of Primary Health Care and Traditional Healers. **Defense: 3 December, 2018**
Trained as a medical doctor, Angela Akol has worked in the health system in Uganda for many years, focusing on young people. She has also taught at Makerere University, School of Public Health.
Supervisor: Ingunn Marie Stadskleiv Engebretsen Co-supervisor: Karen Marie Moland, Juliet Babirye (Makerere University)

Alemayehu Hailu
Alemayehu Hailu has degrees in Public Health from Haramaya University and Addis Ababa University. He has also taught health economy, economic evaluation and health politics at the latter. He is currently working as a senior advisor at Ethiopia’s Health Department.
Supervisor: Bjarne Robberstad Co-supervisors: Bernt Lindtjørn, Wakgari Deressa (Addis Ababa University)

Peter John Binyaruka
Peter Binyaruka is educated as a health economist, and works at the Ifakara Health Institute of Tanzania. His PhD is part of a larger evaluation of evidence-based financing of health services in Tanzania.
Supervisor: Bjarne Robberstad Co-supervisors: Gaute Torsvik (UiO), Josephine Borghi (LSHTM)

Janne Lillelid Gjerde
Chronic disease among women in a resource-constrained setting: The case of pelvic organ prolapse in rural Ethiopia. **Defense: 8 October 2018**
Initially educated as a nurse, Janne Lillelid Gjerde has pursued studies in development and international health. She was a member of the research group Global Health Anthropology.
Supervisor: Astrid Blystad Co-supervisors: Guri Rørtveit, Mulu Muleta (University of Gondar)

Taye Gari Ayana
Malaria, anaemia and undernutrition in a drought-affected area of the Rift Valley of Ethiopia: Experiences from a trial to prevent malaria. **Defense: 22 June 2018**
Taye Gari Ayana has studied Public Health at Addis Ababa University. Today, he works as a lecturer at the School of Public Health at Hawassa University in Ethiopia.
Supervisor: Bernt Lindtjørn Co-supervisors: Eskindir Loha (Hawassa University), Wakgari Deressa (Addis Ababa University)

Kristine Husøy Onarheim
Priority to the newborn? Real-life priority setting and intra-household resource allocation for newborn health in Ethiopia. **Defense: 13 April 2018**
Kristine Husøy Onarheim is trained as a medical doctor and is training as a specialist at Ålesund Hospital. During her PhD work she undertook exchanges abroad to Harvard University and the World Health Organisation.
Supervisor: Ingrid Miljeteig Co-supervisors: Ole F. Norheim, Karen M. Moland, Mitike M. Sisay (Addis Ababa University)

Jobiba Chinkhumba
Economic evaluation of Results based financing in Malawi—strengthening the evidence based for alternative maternal and perinatal healthcare funding. **Defense: 21 February 2018**
Jobiba Chinkhumba trained as a doctor at both University College in London and the College of Medicine in Malawi. He also undertook studies in health economy at the University of St. Andrews, Scotland. He currently lectures at the Department of Health Systems and Policy at the University of Malawi.
Supervisor: Bjarne Robberstad Co-supervisor: Gaute Torsvik, Manuela de Allegri (University of Heidelberg)
<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Supervisor/Co-supervisor</th>
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# 3.5 PHD CANDIDATES

<table>
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<tr>
<th>NAME</th>
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<tbody>
<tr>
<td>Asgedom, Akeza Awealom</td>
<td>Dust exposure and associated respiratory health problems among particleboard workers in Ethiopia</td>
<td>Moen, Bente E</td>
<td>Bråtvet, Magne</td>
<td>Ethiopia</td>
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<tr>
<td>Balikuddembe, Michael</td>
<td>LaD Tracker: A Smart Way to Escape the Illusion of Partography in Labour and Delivery</td>
<td>Tylleskär, Torkild</td>
<td>Wakholi, Peter</td>
<td>Uganda</td>
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<tr>
<td>Blume, Jørn</td>
<td>Challenges in daily infant peri-exposure prophlaxis (PEP) to HIV-exposed uninfected infants</td>
<td>Tylleskär, Torkild</td>
<td>Wang, Siri</td>
<td>Germany</td>
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<td>Bungudo, Binyam Bogale</td>
<td>A study of Individualized Automated Feedback for Behavior Change Communication for Women Registered within Electronic Registries for Maternal and Child Health</td>
<td>Fræn, Frederik</td>
<td>Blom-Bakke, Kjersti</td>
<td>Ethiopia</td>
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<tr>
<td>Chokotho, Linda</td>
<td>Quality of Life and Functional Status of Patients with Femoral Shaft Fractures Treated with Intramedullary Nailing Compared to Patients Treated Conservatively: A Cohort Study</td>
<td>Young, Sven</td>
<td>Gjertsen, Jan-Erik / Hallan, Geir / Mekandawire, Nyengo</td>
<td>Malawi</td>
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<tr>
<td>Chowdhury, Ranadip</td>
<td>Predictors of neonatal and post-neonatal morbidity, care-seeking behaviours and mortality</td>
<td>Strand, Tor</td>
<td>Taneja, Sunita</td>
<td>Nepal</td>
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<td>Defaye, Frehiwot Berhane</td>
<td>Health Priority Setting: Ethical dilemmas in bedside rationing in clinical practise in Ethiopia.</td>
<td>Norheim, Ole F</td>
<td>Miljeteig, Ingrid</td>
<td>Norway</td>
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<td>Dhingra, Usha</td>
<td>“Evaluation of chlorhexidine cord care in first 10 days among newborns in Pemba Island on neonatal mortality and cord Infections”</td>
<td>Nankabirwa, Victoria</td>
<td>Sommerfelt, Halvor / Murdoch, David / Saizawal, Sunil</td>
<td>Uganda</td>
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<tr>
<td>Eide, Kristiane T.</td>
<td>Etikk og reproaktivt helse: Etikk i politikk og praksis - grunnlaget for en rettferdig helsetjeneste</td>
<td>Bærøe, Kristine</td>
<td>Morken, Nils-Halvdan</td>
<td>Norway</td>
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<td>Haaland, Marte Emilie Sandvik</td>
<td>The politics of abortion: An ethnographic study of the sociopolitical dimensions of access to fertility control and safe abortion in Zambia</td>
<td>Astrid Blystad</td>
<td>Moland, Karen Marie / Haukanes, Haldis</td>
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<td>Haugen, Johanne</td>
<td>Influenza, Respiratory infections, Immunity and Zinc</td>
<td>Strand, Tor</td>
<td>Dudman, Susanne / Mathisen, Maria</td>
<td>Norway</td>
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<td>Hoel, Ida Marie</td>
<td>Improving diagnosis of extrapulmonary tuberculosis by implementation of a sensitive and specific assay in routine tuberculosis diagnostics</td>
<td>Mustafa, Tehmina</td>
<td>Sviland, Lisbet / Wilker, Harald</td>
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<td>Hussain, Hamidah Farid</td>
<td>The effectiveness and cost-effectiveness of tuberculosis care through a public-private partnership in Pakistan</td>
<td>Robberstad, Bjarne</td>
<td>Tylleskär, Thorkild</td>
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<td>Hook, Susanna Myrnerts</td>
<td>M-health and new ways to support performance and decision-making during neonatal resuscitation</td>
<td>Tylleskär, Torkild</td>
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<td>Jørstad, Melissa Davidsen</td>
<td>Improved diagnosis of tuberculosis by antigen detection from sputum and extrapulmonary samples by immunochemistry-based assays</td>
<td>Mustafa, Themina</td>
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<td>Kampata, Linda</td>
<td>Adolescent childbearing and contraceptive use in Zambia: trends, socio-economic patterns, and equity effects and cost benefits of an empowerment programme</td>
<td>Sandøy, Ingvild</td>
<td>Fylkesnes, Knut / Mori, Amani</td>
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<td>Kühl, Melf-Jakob</td>
<td>“Turning Knowledge into Action under the Global Agenda 2030: the potential of implementation research to inform scaling-up of disease prevention in children”</td>
<td>Robberstad, Bjarne</td>
<td>Engebretsen, Ingunn</td>
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<td>Lelo, Patricia Vangu Matondo</td>
<td>Neuredeveloment and cognition of children affected by sickle cell anaemia in the Democratic Republic of Congo</td>
<td>Kashala-Abotnes, Esperance</td>
<td>Okitundo, Daniel / Sam, David Lackland / Boivin, Michael Joseph</td>
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<td>Langat, Agnes</td>
<td>The loss of HIV exposed infants in care and its contribution to continued HIV transmission in Kenya</td>
<td>Tylleskär, Thorkild</td>
<td>John-Stewart, Grace</td>
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<td>Lungowe, Sitali</td>
<td>Malaria species distribution, diagnosis and falciparum artemisinin resistance in Southern Zambia</td>
<td>Lindtjørn, Bernt</td>
<td>Chipeta, James</td>
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<td>Melberg, Andrea</td>
<td>Global policies and the provision of birth care in primary health care facilities in Burkina F</td>
<td>Moland, Karen Marie</td>
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<td>Mudenda, Mweetwa</td>
<td>Predictors of school enrolment, attendance and dropout among adolescent girls in rural Zambia</td>
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<td>Mugisha, Alice</td>
<td>Adoption and Development Methodologies for Mobile Health Continuum Care Solutions</td>
<td>Tylleskär, Torkild, Sarbo, J.I., Wakholi, P. / Nankabirwa, V. / Babic, A.</td>
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<td>Mukunya, David</td>
<td>Newborn care practices in Lira district, Northern Uganda. Prevalence, predictors, promoters and associated Morbidity</td>
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<td>Nakazwe, Chola</td>
<td>Assessing the changing HIV Epidemiology in Zambia. Using a National Population Based Survey Conducted in Zambia</td>
<td>Fylkesnes, Knut, Sandøy, Ingvild</td>
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<td>Namakula, Rhoda</td>
<td>Examining adaptive and innate immunity in HIV exposed uninfected children</td>
<td>Hanevik, Kurt, Cose, Stephen / Nankabirwa, Victoria</td>
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<td>Namugga, Olive</td>
<td>Severe illness among infants in Uganda</td>
<td>Nankabirwa, Victoria, Sommerfelt, Halvor</td>
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<td>Ndolomungu, Faustin Kitele</td>
<td>Mental health and HIV among children in the Democratic Republic of Congo</td>
<td>Espérance Kashia Abotnes, Tylleskär, Thorkild / Leol, Mananga</td>
<td>Democratic Republic of Congo</td>
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<td>Ngoie, Leonard Banza</td>
<td>Hip fractures in Malawi. Reported outcomes after non-operative treatment. Estimate of prevalence of musculoskeletal impairment in the Malawi population</td>
<td>Young, Sven, Gjertsen, Jan Erik / Hallan, Geir / MichNDwire, Nyengo</td>
<td>Malawi</td>
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<td>Nima, Dawit Desalegn</td>
<td>Increasing awareness, skills and knowledge in medical ethics among Ethiopian health workers to build a caring, respectful and compassionate health system</td>
<td>Miljeteig, Ingrid, Norheim, Ole Frtpf</td>
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<td>Nikosi-Gondwe, Thandile</td>
<td>Severe anemia in malawan children</td>
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<td>Nyarubeli, Paul Israel</td>
<td>Occupational noise exposure levels and Hearing Loss among iron and steel</td>
<td>Moen, Bente E., Bråvett, Magne / Tungu, Alexander</td>
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<td>Pejovic, Nicolas</td>
<td>Advanced interventions to improve neonatal outcome after intra-partum related events in low-resource settings: the role of LMA</td>
<td>Tylleskär, Torkild, Blennow, M / Ersdal, H / Alvén, T</td>
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<td>Pérez Barrionuevo, Antonio</td>
<td>The role of oral health and microbiome in respiratory health. A project based on the RHINESSA study</td>
<td>Svanes, Cecilie, Bertelsen, Randi / Åsrøm, Anne N.</td>
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<td>Pervin, Jesmin</td>
<td>Mobile phone communication strategies and antenatal care utilization. A mixed-method study in rural Matlab, Bangladesh</td>
<td>Friberg, Ingrid, Fraen, Jahn Frederik / Rahman, Anisur</td>
<td>Bangladesh</td>
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<td>Riro, Matiko Solomon</td>
<td>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</td>
<td>Robberstad, Bjarne, Hill, Jenny</td>
<td>Kenya</td>
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<tr>
<td>Rongsen-Chandola, Temsunaro</td>
<td>Predictors of poor immune response to Rotavirus Vaccine in Infans</td>
<td>Strand, Tor A, Bhandari, Nita</td>
<td>India</td>
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<td>Roro, Meselech</td>
<td>MALARIA IN PREGNANCY: A COMMUNITY BASED COHORT</td>
<td>Lindtjørn, Bernt, Wakgari Deressa Amante</td>
<td>Ethiopia</td>
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<td>Rutagwera, Gatsinzi David</td>
<td>Cell-associated viral reservoirs and the risk of HIV-1 transmission through breast milk</td>
<td>Tylleskär, Torkild, Moles, Jean-Pierre / Tuaillon, Edouard</td>
<td>Uganda</td>
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<td>Shanka, Tarekegn Solomon</td>
<td>Malaria Epidemiology and Prevention in Southern Ethiopia</td>
<td>Lindtjørn, Bernt, Shumbullo, Eskindir Loha / Amente Wikiri</td>
<td>Ethiopia</td>
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<tr>
<td>Shrestha, Sanjaya</td>
<td>Astro virus and Non Polio Enterovirus carries and association with diarrhea in a long term cohort study in children from a large community in Nepal</td>
<td>Strand, Tor, Vainio, K / Andreassen, Å / Dudman, S.</td>
<td>Nepal</td>
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<tr>
<td>Sinha, Bireshwar</td>
<td>“Effect of community initiated kangaroo mother care in low birth weight infants on infant breast milk intake, gut inflammation, maternal depressive symptoms and stress”</td>
<td>Sommerfelt, Halvor, Bhan, Maharaj Kishan / Bhandari, Nita / Bahl, Rajiv</td>
<td>India</td>
<td></td>
</tr>
</tbody>
</table>
3.6 JOINT DEGREES

A better way to strengthen capacity building in the South?

According to Bernt Lindtjørn, developing joint degree programmes with African universities not only strengthens the research training at these institutions, but, more importantly, it allows them to "own" the process of building themselves up. Ownership means commitment; means sustainability. Lindtjørn adds that improved research capacity in the South is important to provide evidence-based information to improve health care. The CIH/UiB – Hawassa University programme is modelled on the Makerere-Karolinska joint degree programme.

Although African institutions are growing and strengthening, Lindtjørn says there remains very little funding for research. Joint degree programmes can provide more funding, promote institution strengthening, and help assure quality control. Lindtjørn says the programme will help to address the current need for better supervisory and mentoring capacity in the South. It will facilitate current staff gaining experience, and allow for growth as programme graduates are hired both at local universities and into leadership positions in local and national government and public health organisations.
### Candidates currently enrolled in CIH-Hawassa Joint Degree Programme

<table>
<thead>
<tr>
<th>NAME</th>
<th>PROJECT TITLE</th>
<th>SUPERVISOR</th>
<th>CO-SUPERVISOR(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dinage, Mehretu Belayneh</td>
<td>Seasonality and spatial distribution of malnutrition and treatment outcome of acute malnutrition among children aged 6–59 months in Boricha, Southern Ethiopia.</td>
<td>Lindtjørn, Bernt</td>
<td>Loha, Eskindir</td>
</tr>
<tr>
<td>Kabalo, Bereket Johannes</td>
<td>Seasonal variation in food insecurity and undernutrition in rural Wolaia, Southwestern Ethiopia.</td>
<td>Lindtjørn, Bernt</td>
<td>Johansson, Kjell / Loha, Eskindir</td>
</tr>
<tr>
<td>Osango, Alemselem Zebdewos</td>
<td>Preventing iron deficiency anemia: Evaluation of amaranth grain supplementation to 24–59.9 month old children in southern Ethiopia, a randomized controlled trial</td>
<td>Engebretsen, Ingunn</td>
<td>Lindtjørn, Bernt / Shumbulo, Eskindir</td>
</tr>
<tr>
<td>Tadesse, Moges</td>
<td>Maternal and neonatal illness, health service utilization, and household expenditure in rural Ethiopia: A community based prospective cohort study</td>
<td>Lindtjørn, Bernt</td>
<td>Johansson, Kjell A / Loha, Eskindir</td>
</tr>
<tr>
<td>Alako, Samrawit Hallu</td>
<td>Common childhood illness and health service utilization in Wonago district, Southwestern Ethiopia. A community based cohort study.</td>
<td>Lindtjørn, Bernt</td>
<td>Johansson, Kjell A / Astatike, Ayalew</td>
</tr>
<tr>
<td>Amare, Hiwot Hallu</td>
<td>assessment of school health problems in Gedeo Zone, Southern Ethiopia</td>
<td>Lindtjørn, Bernt</td>
<td>Abegaz, Teferi</td>
</tr>
<tr>
<td>Alemayehu, Sewhareg Belay</td>
<td>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, Southwestern Ethiopia</td>
<td>Hinderaker, Sven Gudmund</td>
<td>Emmelin, Maria / Tefera, Ayalew Astatke</td>
</tr>
<tr>
<td>Zegeye, Hanibale Atsbeha</td>
<td>Molecular diagnosis of asymptomatic malaria and malaria drug resistance in Southwestern Ethiopia.</td>
<td>Lindtjørn, Bernt</td>
<td>Loha, Eskindir / Nerland, Audun</td>
</tr>
<tr>
<td>Arose, Hiwot Abera</td>
<td>Health and Demographic Surveillance System of Dale and Wonsowooredas (districts): A potential for enhancing health care delivery system</td>
<td>Lindtjørn, Bernt</td>
<td>Dangisso, Mesay Hallu/Kismul, Hallgeir/Moen, Bente E.</td>
</tr>
<tr>
<td>Kebede, Tignereda Behailu</td>
<td>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</td>
<td>Engebretsen, Ingunn</td>
<td>Bilal, Selamawit</td>
</tr>
<tr>
<td>Satato, Debritu Nane</td>
<td>Effect of local ingredient based supplementary food in treating Moderate Acute Malnutrition among children aged 24 to 59 months: A randomized controlled trial in Wolaia.</td>
<td>Hatlay, Anne</td>
<td>Balla, Elazar/Lindtjørn, Bernt/Moen, Bente E.</td>
</tr>
<tr>
<td>Tesfaye, Solomon Hailiemariam</td>
<td>Improving community based management of severe childhood Pneumonia at primary health care units in rural Ethiopia.</td>
<td>Lindtjørn, Bernt</td>
<td>Johansson, Kjell A / Loha, Eskindir</td>
</tr>
<tr>
<td>Abdo, Abdella Amano</td>
<td>Evaluating Maternal and Neonatal delivery outcome at Hawassa University Referral Hospital, Hawassa, Southwestern Ethiopia.</td>
<td>Hinderaker, Sven Gudmund</td>
<td>Tekle, Achemyelesh/Lindtjørn, Bernt</td>
</tr>
<tr>
<td>Seifu, Canaan Negash</td>
<td>Employment and motherhood: The impact of work on feeding and nutritional status of infant and young children in Wolaita.</td>
<td>Hatlay, Anne</td>
<td>Lindtjørn, Bernt/Belachew, Tefera/Moen, Bente E.</td>
</tr>
<tr>
<td>Zewdie, Demmelash Muluaalem</td>
<td>Effects of Eggshell Calcium Consumption on Body Fluoride Load and Mitigation of Dental and Skeletal Fluorosis among Mothers in Ethiopian Rift Valley</td>
<td>Engebretsen, Ingunn</td>
<td>Lindtjørn, Bernt/Loha, Eskindir/Whiting, Susan Joyce</td>
</tr>
</tbody>
</table>
4. PEOPLE
4.1 SCIENTIFIC PERSONNEL

People have many types of affiliations to CIH. The list below shows the scientific personnel who are formally employed at the centre, with a few exceptions (explained in brackets).

**PERMANENTLY EMPLOYED:**

- Blystad, Astrid, Professor (IGS employed)
- Engebretsen, Ingunn Marie S, Professor, Associate Director
- Hatløy, Anne, Associate Professor (40%)
- Hinderaker, Sven Gudmund, Professor (80%)
- Lindtjørn, Bernt, Professor
- Moen, Bente Elisabeth, Professor, Director
- Moland, Karen Marie, Professor
- Mustafa, Tehmina, Professor (50%)
- Norheim, Ole Frithjof, Professor (IGS employed)
- Robberstad, Bjarne, Professor
- Sandøy, Ingvild Fossgard, Professor (IGS employed)
- Sommerfelt, Halvor, Professor
- Steinsland, Hans, Researcher
- Svanes, Cecilie, Professor (50%)
- Tylleskår, Thorkild, Professor
- Sam, David Lackland, Professor (Faculty of Psychology employed)

**TEMPORARILY EMPLOYED:**

- Abotnes, Espérance Kashala, Associate Professor (5 %)
- Barrionuevo, Antonio M.P., PhD candidate UiB
- Basnet, Sudha, Post doctor (50%)
- Frøen, Jahn Fredrik, Professor II (20%)
- Haaland, Marte, UiB candidate UiB
- Hoel, Ida Marie, PhD candidate UiB
- Höök, Susanne M, PhD candidate RCN
- Johannessen, Ane, Researcher (70%)
- Kismul, Hallgeir, Associate professor (50%)
- Lønnebotn, Marianne, PhD candidate Helse Vest
- Melberg, Andrea, PhD candidate UiB
4.2 CIH BOARD • CENTRE FOR INTERNATIONAL HEALTH

Mjaaland, Thera
Mori, Amani Thomas
Musonda, Patrick
Nankabirwa, Victoria
Pejovic, Nicolas
Ruano, Ana Lorena
Schwinger, Catherine
Svanemyr, Joar
Strand, Tor A.
Van Den Bergh Graziella

Associate professor (30%) from August 2018
Post doctor RCN
Project leader
Post doctor RCN
PhD candidate RCN
Associate professor (20%)
Post doctor UiB
Post doctor UiB (75%)
Adjunct professor (20%)
Associate professor (20%)

OTHER
Fylkesnes, Knut Martin
Kvale, Gunnar
Nilsen, Rune
Bjorvatn, Bjarne

Professor emeritus
Professor emeritus
Professor emeritus
Professor emeritus

4.2 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 2018:

CIH BOARD MEMBERS 2018

Per Bakke (Dean), Marit Bakke (Vice Dean for research), Anne Nordrehaug Åstrøm (IKO, Board Leader), Kjell Morten Myhr (K1), Eystein Husebye (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 that have been shared – always very inspiring and helpful for CIH.
4.3 ASSOCIATED PERSONNEL

Kahtan Al-Azawy, HUS
Kjersti Alsaker, HVL
Christian Bakke, Communication division, UiB
Per Bakke, Dean, MED
Randi J Bertelsen, K2, UiB
Nita Bhandari, Society for Applied Studies
Gunnar Bjune
Magne Bråtveit, IGS
Asgeir Bårdsten, IKO
Karín Lødrup Carlsen, UiO
Daniela Costea, K1, UiB
Jutta Dierkes, K1, UiB
Anne Ma Dysvik-Riise, HUS
Maria Emmelin, Lund University
Ferda Gülcen, IKO
Håkon Gjessing, FHI/IGS
Sturla Gjesdal, IGS
Truls Gjestland, SINTEF
Siri Gloppen, CMI/UiB
Geir Halland, HUS
Harleen Grewal, K2, UiB
Rolf Hanoa, IGS
Haldis Haukanes, Faculty of Psychology, UiB
Sigrun Henjum, HiOA
Bjørn Hofmann, UiO
Bjørg Eli Hollund, YMA, HUS Lone Holst, IGS
Mari Hysing, NORCE
Tane Holm Høisæter, UiB Learning Lab
Frode Ims, UiB Learning Lab
Frode Fadnes Jacobsen, HVL
Anne Christine Johannessen, K1, UiB
Kjell Arne Johansson, IGS
Torvid Kiserud, HUS/UiB
Siri Lange, HEMIL, UiB/CMI
Nina Langeland, Dean MED
Gro Therese Lie, Psyk emerita
Reidar Lie, Faculty of Humanities, UiB
Rolv Terje Lie, IGS
Frode Lindemark, HUS
Maria Mathisen, UNN
Eivind Meland, IGS

Ingrid Miljeteig, IGS
Ottar Maestad, CMI
Klaus Melf, NORCE
Kamal Mustafa, IKO
Ole Jacob Møllerlokk, IGS Catherine Namulindwa, Malta
Elwalid Fadul Nasir, IKO
Øystein Evjen Olsen, SUS
Ernst Omenaas, HUS
Hans Overgaard, NMBU
Odd Pettersen, SINTEF
Pål Puntervoll, NORCE
Francisco Gomez Real, HUS
Ole Bjørn Rekdal, HVL
Trond Riise, IGS
Kristin Rygg, NHH
Guri Rørtveit, IGS
Ingvild Fossgard Sandøy, IGS
Kathrine Skarstein, K1, UiB
Rolf Skjærven, IGS
Marion Solheim, MED
Arne Strand, CMI
Johanne Sundby, UiO
Stefan Sutterlin, HiØ
Lisbet Sviland, HUS/K1 UiB
Heidi Syre, Helse Fonna/UiB
Erik Joakim Tranvåg, IGS
Bertil Tungodden, NHH/CMI
Elin Vestbøstad, HVL
Kari Vik, ABUP
Sandya S Visweswariah, Indian Institute of Science
Magnus Vollset, IGS
Adi Vyas, Norwich Medical School
Bodil Bø Våga, UiS
Sven Young, HUS/Malawi
Harald Wiker, K2, UiB
Annegreet Wubs, HEMIL, UiB
Ketil Joachim Ødegaard, UiB/HUS
Arild Aakvik, UiB
Birgitta Åsjø, UiB
Audun Aase, FHI
Henriette Sinding Aasen, JUS
Anne Norderhaug Åstrøm, IKO
4.4 ADMINISTRATIVE PERSONNEL

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 administration work at least some time in both locations (CIH and Kalfarveien 31). The core administration for Centre for International Health is listed below:

- 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:**

- Alami, Mina Apprentice (until August 2018)
- Bartle, Elinor Communication Services (60%)
- Forshaw, Linda Karin Academic Affairs, Master
- Schwinger, Catherine Project administration CISMAC (from April 2018)
- Hope, Ingvild Administrative advisor (until March 2018)
- Koldal, Gunhild Administration
- Rosario, Carmeliza Project administration CIH (from October 2018)
- Straume, Ane Project administration CISMAC (on leave from April 2018)
- Vikøren, Solfrid Project Economist
- Ipek, Filiz Project Economist
- Gundersen, Daniel Consultant; Norwegian Research School (20%)

In addition, Kjell Rune Sæle has been responsible for the economy and Randi Oen for education. Both have helped CIH with these issues.

The administration of Global Challenges has been a part of CIH until June 2018. They are now administered by the Faculty of Medicine. Global Challenges, one of three strategic areas at University of Bergen.

- Abdelrahman, Howaida F. Senior consultant
- Berg, Kjersti Gravelsæter Advisor, communication (temporary)
- Hope, Ingvild Advisor/admin co-ordinator for Global Challenges from March 2018
- Legreid, Ragnhild Osnes Advisor, communication (on leave)
- Rø, Tord Advisor, communication
- Sætersdal, Tore Scientific co-ordinator
- Tesdal, Inge Higher executive officer
5. NETWORKING
5.1 NORWEGIAN FORUM FOR GLOBAL HEALTH RESEARCH

Established in 2005, the aim of the Forum is to promote high quality research, education and training aiming at improving 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. It is also an arena for exchanging ideas and views on research and methodology, and where it is possible to collaborate on issues related to academic training and curriculum development.

Forum has worked successfully to establish the Norwegian Research School of Global Health (2016) and the new network, Global Health Norway (2017).

At the Forum’s 2018 General Assembly, it was decided that the Forum would continue to be an autonomous body in addition to Global Health Norway, and that the Forum will offer individual memberships. Members of the Forum will be entitled to news and information about Forum activities, conferences, and funding sources. The membership is free of charge. Learn more on the Forum’s website: forumglobalhealth.w.uib.no
5.2 GLOBAL HEALTH NORWAY

Global Health Norway (GHN) is a national arena for global health research, education and capacity strengthening. It 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. The network was established in 2017. The Secretariat is currently situated at UiB / CIH. In 2018, the Secretariat has established an editorial group for the GHN web-pages, including members from most institutions involved in the network. Web site: [www.globalhealth.no](http://www.globalhealth.no)

GHN will help to organise an annual national conference on Global Health.

The following persons have been members of the GHN Board in 2018:

From hospital sector: Henrik Sandbu, Geir Tollåli, Øystein Krüger, Pål Iden
From Norwegian Institute of Public Health: Bjørn Iversen
From university sector: Bjørn Gustafsson, Frode Vartdal, Sameline Grimsgaard and Nina Langeland (leader)

The Board has the following observers: Ingvar T. Evjen Olsen (Norad), Åse-Marit Kristiansen (NFR), Randi Reinertsen (SINTEF), Ottar Mæstad (CMI), Karen M. Moland (Universities Norway).
5.3 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.

The thematic university priority area, "Global Challenges", was established in 2016. CIH has a both special responsibility for the scientific development in the strategy group, and hosts the strategy’s administration.

In addition to working on developing university-wide multi-disciplinary and cross-Faculty strategies for Education and Research within this thematic area, Global Challenges undertook 2 actions in 2018 to stimulate collaborations within UiB, particularly emphasizing research within the areas of migration, health, and inequality. One was some seed funding for planning inter-Faculty research projects. The other was the announcement of 2 multi-Faculty PhD positions.

Together with Christian Michelsen’s Institute, Global Challenges is also responsible for Bergen Global, located in Jekteviken (previously called Bergen Resource Centre). This is an arena where academics, students and others share their research, attend seminars and debate development-related issues.

Global Challenges is also responsible for running the Bergen Summer Research School, which in 2018, was held 11–21 June. It was also involved in helping to organise the 2018 SDG conference, held 8–9 February.

Global Challenges have their own annual report where all their activities are described.

6. PUBLICATIONS 2018
Adolescent health

Zulu, Joseph M.; Goicolea, Isabel; Kinsman, John; Sandøy, Ingvild Fossgard, Blystad, Astrid; Mulubwa, Chama; Makasa, Mpundu; Michelo, Charles Cheembo; Musonda, Patrick; Hurtig, Anna-Karin. Community based interventions for strengthening adolescent sexual reproductive health and rights: how can they be integrated and sustained? A realist evaluation protocol from Zambia. *Reproductive Health* 2018; Volum 15.(1)

Filus, Ania; Schwarz, Beate; Mylonas, Kostas; Sam, David Lackland; Boski, Pawel. Parenting and Late Adolescents? Well-Being in Greece, Norway, Poland and Switzerland: Associations with Individuation from Parents. *Journal of Child and Family Studies* 2018

Grønvik, Taran; Sandøy, Ingvild Fossgard. Complications associated with adolescent childbearing in Sub-Saharan Africa: A systematic literature review and metaanalysis. *PLoS ONE* 2018; Volum 13.(9) s.1-21

Communicable diseases (except malaria and tuberculosis)

Pettersen, Veronika Kucharova; Steinsland, Hans. Wiker, Harald G. Comparative proteomics of enterotoxigenic escherichia coli reveals differences in surface protein production and similarities in metabolism. *Journal of Proteome Research* 2018; Volum 17.(1) s.325-336

Vedøy, Oda Barth; Hanevik, Kurt; Sakkestad, Sunniva Todnem; Sommerfelt, Halvor; Steinsland, Hans. Proliferation of enterotoxigenic Escherichia coli strain TW11681 in stools of experimentally infected human volunteers. *Gut Pathogens* 2018; Volum 10.

Colston, JM; Ahmed, AMS; Soofi, Sajid Bashir; Svensen, Erling. Haque, Rashidul; Shrestha, Jasmin; Nshama, R; Bhutta, Zulfiqar Ahmed; Lima, Ila Fernanda Nunes; Samie, Amidou; Bodhidatta, Ladaporn; Lima, Aldo A.A.M.; Bessong, Pascal; Paredes Olortegui, M; Turab, Ali; Mohan, Venkata Raghava; Moulton, Lawrence H; Naumova, Elena N; Kang, Gagandeep; Kosek, Margaret N. Seasonality and within-subject clustering of rotavirus infections in an eight-site birth cohort study. *Epidemiology and Infection* 2018; Volum 146.(6) s.688-697

Hjøllo, Torunn; Bratland, Eirik; Steinsland, Hans. Radunovic, Matej; Langeland, Nina; Hanevik, Kurt. Longitudinal cohort study of serum antibody responses towards Giardia lamblia variant-specific surface proteins in a non-endemic area. *Experimental parasitology* 2018; Volum 191. s.66-72

Olortegui, Maribel Paredes; Rouhani, Saba; Yori, Pablo Peñataro; Salas, Mery Siguanas; Trigoso, Dixner Rengifo; Mondal, Dinesh; Bodhidatta, Ladaporn; Plattts-Mills, James; Samie, Amidou; Kabir, Furqan; Lima, Aldo; Babji, Sudhir; Shrestha, Sanjaya; Mason, Carl J.; Kalam, Adil; Bessong, Pascal; Ahmed, Tahmeed; Mduma, Estomih; Bhutta, Zulfiqar A; Lima, Ila; Ramdass, Rakhi; Moulton, Lawrence H; Lang, Dennis; George, Ajila; Zaidi, Anita K.M.; Kang, Gagandeep; Houpt, Eric R; Kosek, Margaret N.v Astrovirus infection and diarrhea in 8 countries. *Pediatrics* 2018; Volum 141.(1)
Global health priorities, Ethics

Andersson, Anna-Karin Margareta; Johansson, Kjell Arne. Substituted decision making and the dispositional choice account. *Journal of Medical Ethics* 2018 s.1-7


Onarheim, Kristine Husøy; Molla, Sisay Mitike; Moland, Karen Marie; Norheim, Ole Frithjof; Miljeteig, Ingrid. Selling my sheep to pay for medicines - Household priorities and coping strategies in a setting without universal health coverage. *BMC Health Services Research* 2018; Volum 18:153. s.1-12

Ottersen, Trygve; Grépin, Karen A.; Henderson, Klara; Pinkstaff, Crossley Beth; Norheim, Ole Frithjof; Røttingen, John-Arne. New approaches to ranking countries for the allocation of development assistance for health: Choices, indicators and implications. *Health Policy and Planning* 2018; Volum 33. s.i31-i46


Onarheim, Kristine Husøy; Norheim, Ole Frithjof; Miljeteig, Ingrid. Newborn health benefits or financial risk protection? An ethical analysis of a real-life dilemma in a setting without universal health coverage. *Journal of Medical Ethics* 2018; Volum 44.(8) s.524-530


Wester, Gry; Bærøe, Kristine; Norheim, Ole Frithjof. Towards theoretically robust evidence on health equity: A systematic approach to contextualising equity-relevant randomised controlled trials. *Journal of Medical Ethics* 2018 s.1-6

Loaiza, Olman Rodríguez; Morales, Sigrid; Norheim, Ole Frithjof; Wilson, Bruce. Revisiting health rights litigation and access to medications in Costa Rica: Preliminary evidence from the cochrane collaboration reform. *Health and Human Rights: An International Journal* 2018; Volum 20.(1) s.79-91

Jansen, Maarten P.M.; Baltussen, Rob; Bærøe, Kristine. Stakeholder participation for legitimate priority setting: A checklist. *International Journal of Health Policy and Management* 2018; Volum 7.(11) s.973-976


Onarheim, Kristine Husøy; Melberg, Andrea; Miljeteig, Ingrid. Towards universal health coverage: including undocumented migrants. *BMJ Global Health* 2018; Volum 3.
Kruk, Margaret E.; Gage, Anna D.; Arsenault, Catherine; Jordan, Keely; Leslie, Hannah H.; Roder-DeWan, Sanam; Adeyi, Olusoji; Barker, Pierre; Daelmans, Bernadette; Doudova, Svetlana V.; English, Mike; Elorrio, Ezequiel Garcia; Guanais, Frederico; Gureje, Oye; Herschhorn, Lisa R.; Jiang, Lixin; Kelley, Edward; Lemango, Ephrem Tekle; Liljestrand, Jerker; Malata, Address; Marchant, Tanya; Matsoso, Malebogeng Precious; Meara, John G.; Mohanan, Manoj; Ndiaye, Youssoupha; Norheim, Ole Frithjof; Reddy, K. Srinath; Rowe, Alexander K.; Salomon, Joshua A.; Thapa, Gagan; Twum-Danso, Nana A.Y.; Pate, Muhammad. High-quality health systems in the Sustainable Development Goals era: time for a revolution. *The Lancet Global Health* 2018; Volum 6.(11) s.e1196-e1252

Ives, Jonathan; Dunn, Michael; Molewijk, Bert; Schildmann, Jan; Bærøe, Kristine; Frith, Lucy; Huxtable, Richard; Landeweer, Elleke; Mertz, Marcel; Provoost, Veerle; Rid, Annette; Salloch, Sabine; Sheehan, Mark; Streech, Daniel; De Vries, Martine; Widder-shoven, Guy. Standards of practice in empirical bioethics research: Towards a consensus. *BMC Medical Ethics* 2018; Volum 19.(68)

Skaftun, Eirin Krüger; Verguet, Stéphane; Norheim, Ole Frithjof; Johansson, Kjell Arne. Geographic health inequalities in Norway: A Gini analysis of cross-county differences in mortality from 1980 to 2014. *International Journal for Equity in Health* 2018; Volum 17:64. s.1-8

James, Spencer L; Abate, Degu; Abate, Kalkidan Hassen; Abay, Solomon M.; Abbafati, Cristiana; Abbasi, Nooshin; Abbastabar, Hedayat; Abd-Allah, Foad; Abdela, Jemal; Abdellam, Ahmed; Abdollahpour, Ibrahim; Abdulkader, Riswan Suliankachi; Abebe, Zegye; Abera, Semaw F; Abil, Olfan Zewdie; Abraha, Haftom Niguse; Abu-Raddad, Laith J; Abu-Rmeileh, Niveen M. E.; Stovner, Lars Jacob; Murray, Christopher J. L.; Kisa, Adnan; Norheim, Ole Frithjof; Steiner, Timothy J.; Weiderpass, Elisabeta. Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018; Volum 392.(10159) s.1789-1858

**Health Economy**

Binyaruka, Peter John; Robberstad, Bjarne; Torsvik, Gaute; Borghi, Josephine. Who benefits from increased service utilisation? Examining the distributional effects of payment for performance in Tanzania. *International Journal for Equity in Health* 2018; Volum 17:14. s.1-16

Dawkins, Bryony R.; Mirelman, Andrew J.; Asaria, Miqdad; Johansson, Kjell Arne; Cookson, Richard A. Distributional cost-effectiveness analysis in low- and middle-income countries: Illustrative example of rotavirus vaccination in Ethiopia. *Health Policy and Planning* 2017; Volum 33.(3) s.456-463

Grépin, Karen A.; Pinkstaff, Crossley B.; Hole, Arne Risa; Henderson, Klara; Norheim, Ole Frithjof; Røttingen, John-Arne; Ottersen, Trygve. Allocating external financing for health: A discrete choice experiment of stakeholder preferences. *Health Policy and Planning* 2018; Volum 33. s.i24-i30

Binyaruka, Peter John; Robberstad, Bjarne; Torsvik, Gaute; Borghi, Josephine. Does payment for performance increase performance inequalities across health providers? A case study of Tanzania. *Health Policy and Planning* 2018; Volum 33,(9) s.1026-1036

Mori, Amani Thomas; Meena, Estella; Kaale, Eliangiringa Amos. Economic cost of substandard and falsified human medicines and cosmetics with banned ingredients in Tanzania from 2005 to 2015: A retrospective review of data from the regulatory authority. *BMJ Open* 2018; Volum 8.(6) s.1-7
5.3 GLOBAL CHALLENGES • CENTRE FOR INTERNATIONAL HEALTH

HIV

Berheto, Tezera Moshago; Hinderaker, Sven Gudmund; Senkoro, Mbazi; Tweya, Hannock; Deressa, Tekalign; Getaneh, Yimam; Gezahegn, Guillat. Body and mind: Retention in antiretroviral treatment care is improved by mental health training of care providers in Ethiopia. BMC Public Health 2018; Volum 18.(896) s.1-8

Kose, Judith; Tiam, Appolinaire; Ochuka, Bernard; Okoth, Elizabeth; Sunguti, Joram; Waweru, Michael; Mwangi, Eliud; Wolters, Theresa; Rakhmanina, Natella. Impact of a Comprehensive Adolescent-Focused Case Finding Intervention on Uptake of HIV Testing and Linkage to Care Among Adolescents in Western Kenya. Journal of Acquired Immune Deficiency Syndromes 2018; Volum 79.(3) s.367-374

Waruru, Anthony Kabui; Achia, Thomas NO; Mutui, Hellen; Ng'ang'a, Lucy; Zielinski-Gutierrez, Emily; Ochanda, Boniface; Katana, Abraham; Young, Peter W; Tobias, James L; Juma, Peter; De Cock, Kevin M; Tylleskär, Thorkild. Spatial-temporal trend for mother-to-child transmission of HIV up to infancy and during pre-Option B+ in western Kenya, 2007-13. PeerJ 2018;Volum 2018.(3)

Some, Nagaonle Eric; Engebretsen, Ingunn Marie S.; Nagot, Nicolas; Meda, Nicolas; Vallo, Roselyne; Kankasa, Chipepo; Tumwine, James K; Singata, Mandisa; Harper, Kim; Hofmeyr, Justus G; Perre, Philippe van de; Tylleskär, Thorkild. HIV-1 disease progression in immune-competent HIV-1-infected and breastfeeding mothers participating in the ANRS 12174 clinical trial in Burkina Faso, South Africa, Uganda and Zambia: a cohort study. BMJ Open 2018; Volum 8.(4) s.e019239

Malaria

Animut, Abebe; Lindtjorn, Bernt. Use of epidemiological and entomological tools in the control and elimination of malaria in Ethiopia. Malaria Journal 2018; Volum 17:26. s.1-8

Ayana, Taye Gari; Loha, Eskindir; Deressa, Wakgari; Shanka, Tarekegn Solomon; Lindtjorn, Bernt. Malaria increased the risk of stunting and wasting among young children in Ethiopia: Results of a cohort study. PLoS ONE 2018; Volum 13.(1)

Shanka, Tarekegn Solomon; Loha, Eskindir; Deressa, Wakgari; Balkew, Meshesha; Ayana, Taye Gari; Overgaard, Hans Jørgen; Lindtjorn, Bernt. Bed nets used to protect against malaria do not last long in a semi-arid area of Ethiopia: A cohort study. Malaria Journal 2018; Volum 17.(239) s.1-14

Svege, Sarah; Kaunda, Blessings; Robberstad, Bjarne; Gondwe, Thandile; Phiri, Kamija S.; Lange, Siri. Post-discharge malaria chemoprevention (PMC) in Malawi: caregivers’ acceptance and preferences with regard to delivery methods methods. BMC Health Services Research 2018; Volum 18:544. s.1-8

Gondwe, Thandile; Robberstad, Bjarne; Mukaka, Mavuto; Lange, Siri; Blomberg, Bjørn; Phiri, Kamija S. Delivery strategies for malaria chemoprevention with monthly dihydroartemisinin-piperazine for the post-discharge management of severe anaemia in children aged less than 5 years old in Malawi: a protocol for a cluster randomized trial. BMC Pediatrics 2018; Volum 18:238. s.1-8

Doda, Zerihun; Solomon, Tarekegn; Loha, Eskindir; Ayana, Taye Gari; Lindtjorn, Bernt. A qualitative study of use of long-lasting insecticidal nets (LLINs) for intended and unintended purposes in Adami Tullu, East Shewa Zone, Ethiopia. Malaria Journal 2018; Volum 17.(69) s.1-14

Getawen, Solomon Kinde; Ashine, Temesgen; Massebo, Fekadu; Woldeyes, Daniel; Lindtjorn, Bernt. Exploring the impact of house screening intervention on entomological indices and incidence of malaria in Arba Minch town, southwest Ethiopia: A randomized control trial. Acta Tropica 2018; Volum 181. s.84-94
Kwambai, Titus Kimutai; Dhabangi, Aggrey; Idro, Richard; Opoka, Robert; Kariuki, Simon; Samuels, Aaron; Desai, Meghna; Van Hensbroek, Michael Boele; Robberstad, Bjarne; Wang, Duolao; Phiri, Kamija; ter Kuile, Feiko. Malaria chemo-prevention with monthly dihydroartemisinin-piperaquine for the post-discharge management of severe anaemia in children aged less than 5 years in Uganda and Kenya: Study protocol for a multi-centre, two-arm, randomised, placebo-controlled, superiority trial. Trials 2018; Volum 19.(1)

Gondwe, Thandile; Robberstad, Bjarne; Blomberg, Bjørn; Phiri, Kamija S.; Lange, Siri. Introducing post-discharge malaria chemo-prevention (PMC) for management of severe anaemia in Malawian children: a qualitative study of community health workers’ perceptions and motivation. BMC Health Services Research 2018; Volum 18.(1) s.1-15

Hailu, Alemayehu; Lindtjorn, Bernt; Ayana, Taye Gari; Loha, Eskindir; Robberstad, Bjarne. 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. Cost Effectiveness and Resource Allocation 2018; Volum 16.(61) s.1-17

Ayana, Taye Gari; Lindtjorn, Bernt. Reshaping the vector control strategy for malaria elimination in Ethiopia in the context of current evidence and new tools: opportunities and challenges. Malaria Journal 2018; Volum 17:454. s.1-8

**Mental health**

Akol, Angela; Moland, Karen Marie; Babirye, Juliet Ndimwibo; Engebretsen, Ingunn Marie S. “We are like co-wives”: Traditional healers’ views on collaborating with the formal Child and Adolescent Mental Health System in Uganda. BMC Health Services Research 2018; Volum 18:258. s.1-9

Sanou, Anselme Simeon; Diallo, Abdoulaye Hama; Holding, Penny; Nankabirwa, Victoria; Engebretsen, Ingunn Marie S.; Ndeezi, Grace; Tumwine, James K.; Meda, Nicolas; Tylleskär, Thorkild; Kashala-Abotnes, Espérance. Association between stunting and neuro-psychological outcomes among children in Burkina Faso, West Africa. Child and Adolescent Psychiatry and Mental Health 2018; Volum 12.(30)

Ribe, Ingeborg G.; Svensen, Erling; Lyngmo, Britt Aspnes; Mduma, Estomih; Hinderaker, Sven Gudmund. Determinants of early child development in rural Tanzania. Child and Adolescent Psychiatry and Mental Health 2018; Volum 12.(18) s.1-8

Sanou, Anselme Simeon; Diallo, Abdoulaye Hama; Holding, Penny; Nankabirwa, Victoria; Engebretsen, Ingunn Marie S.; Ndeezi, Grace; Tumwine, James K.; Meda, Nicolas; Tylleskär, Thorkild; Kashala-Abotnes, Espérance. Effects of schooling on aspects of attention in rural Burkina Faso, West Africa. PLoS ONE 2018; Volum 13.(9)

Sanou, Anselme Simeon; Diallo, Hama Abdoulaye; Holding, Penny; Nankabirwa, Victoria; Engebretsen, Ingunn Marie Stadskleiv; Ndeezi, Grace; Tumwine, James K.; Meda, Nicolas; Tylleskär, Thorkild; Kashala-Abotnes, Espérance. Effects of schooling on aspects of attention in rural Burkina Faso, West Africa. PLoS ONE 2018

Akol, Angela; Makumbi, Fredrick; Babirye, Juliet Ndimwibo; Naluuya, Joyce; Nshemereirwe, Sylvia; Engebretsen, Ingunn Marie S. Does mhGAP training of primary health care providers improve the identification of child- and adolescent mental, neurological or substance use disorders? Results from a randomized controlled trial in Uganda. Global Mental Health 2018; Volum 5. s.e29

Sam, David Lackland; Bruce, Delphine; Agyemang, Collins B; Amponsah, Benjamin; Arkorful, Helen. Cyberbullying Victimization among High School and University Students in Ghana. Deviant behavior 2018
Migration

Buchanan, Zachary E; Abu-Rayya, Hisham M; Kashima, Emiko S.; Paxton, Susan J; Sam, David Lackland. Perceived discrimination, language proficiencies, and adaptation: Comparisons between refugee and non-refugee immigrant youth in Australia. *International Journal of Intercultural Relations* 2018; Volum 63. s.105-112

Jamaludin, Nor Lelawati Binti; Sam, David Lackland; Sandal, Gro Mjeldheim. Destination Motivation, Cultural Orientation, and Adaptation: International Students’ Destination-Loyalty Intention. *Journal of International Students*. 2018; Volum 8.(1) s.38-65

Sam, David Lackland. Understanding positive immigrant youth adaptation in the context of multiculturalism. *Journal of Adolescence* 2018; Volum 62.(1) s.222-225

Mother/child

Fredriksen, Eva Haukeland; Moland, Karen Marie; Harris, Janet. How do health professionals acknowledge web-based knowledge in pregnancy consultations? *Health care for Women International* 2018; Volum 39.(9) s.955-967

Chandyo, Ram Krishna; Ulak, Manjeswori; Kvestad, Ingrid; Hysing, Mari; Shrestha, Merina; Ranjitkar, Suman; Ulvik, Arve; Ueland, Per Magne; Shrestha, Laxman; Strand, Tor A. Cobalamin and folate status among breastfed infants in Bhaktapur, Nepal. *Nutrients* 2018; Volum 10:639.(5) s.1-11

Tumwine, James K; Nankabirwa, Victoria; Diallo, Hama Abdoulaye; Engebretsen, Ingunn Marie S.; Ndeezi, Grace; Bangirana, Paul; Sanou, Anselme Simeon; Kashala Abotnes, Esperance; Boivin, Michael; Giordani, Bruno; Elgen, Irene Bircow; Holding, Penny; Kakooza-Mwesige, Angelina; Skyldstad, Vilde; Nalugya, Joyce; Tylleskär, Thorkild; Meda, Nicolas. Exclusive breastfeeding promotion and neuropsychological outcomes in 5-8 year old children from Uganda and Burkina Faso: Results from the PROMISE EBF cluster randomized trial. *PLoS ONE* 2018; Volum 13:e0191001.(2) s.1-17

Engjom, Hilde Marie; Morken, Nils-Halvdan; Haydahl, Even; Norheim, Ole Frithjof; Klungsøyrt, Kari. Risk of eclampsia or HELLP-syndrome by institution availability and place of delivery - A population-based cohort study. *Pregnancy Hypertension* 2018; Volum 14. s.1-8

Ranjitkar, Suman; Kvestad, Ingrid; Strand, Tor A; Ulak, Manjeswori; Shrestha, Merina; Chandyo, Ram Krishna; Shrestha, Laxman; Hysing, Mari. Acceptability and reliability of the Bayley Scales of infant and Toddler Development-III Among Children in Bhaktapur, Nepal. *Frontiers in Psychology* 2018; Volum 9:1265. s.1-10

Melberg, Andrea; Diallo, Abdoulaye Hama; Storeng, Katerini Tagmatarchi; Tylleskär, Thorkild; Moland, Karen Marie. Policy, paperwork and ‘postographs’: Global indicators and maternity care documentation in rural Burkina Faso. *Social Science and Medicine* 2018; Volum 215. s.28-35

Höök, Susanna Myrnerts; Pejovic, Nicolas; Marrone, Gaetano; Tylleskär, Thorkild; Alfven, Tobias. Accurate and fast neonatal heart rate assessment with a smartphone-based application – a manikin study. *Acta Paediatrica* 2018; Volum 107.(9) s.1548-1554
Blume, Joern; Ruano, Ana Lorena; Wang, Siri; Jackson, Debra J.; Tylleskär, Thorkild; Strand, Liv Inger. Oral medicine acceptance in infants and toddlers: measurement properties of the caregiver-administered Children’s acceptance tool (CareCAT). *BMC Pediatrics* 2018; Volum 18.(117) s.1-10

Kabalo, Mulugeta Yohannis; Kabalo, Bereket Yohannes. Children with oedema recover better than those with severe wasting in outpatient therapeutic program at Boloso Sore district, Southwest Ethiopia. *BMC Research Notes* 2018; Volum 11.(118) s.1-5

Kabalo, Bereket Yohannes; Ejamo, Elias; Thangavel, Thilagavathi; Yohannis, Mulugeta. Timely initiation of complementary feeding to children aged 6-23 months in rural Soro district of Southwest Ethiopia: A cross-sectional study. *BMC Pediatrics* 2018; Volum 18.(17) s.1-7

Tongun, Justin Bruno; Sebit, Mohammed Boy; Mukunya, David; Ndeezi, Grace; Nankabirwa, Victoria; Tylleskär, Thorkild; Tumwine, James K. Factors associated with delayed initiation of breastfeeding: A cross-sectional study in South Sudan. *International Breastfeeding Journal* 2018; Volum 13.(28) s.1-7

Lindtjorn, Bernt; Miteke, Demissesse; Zidda, Zillo; Yaya, Yaliso. Reducing stillbirths in Ethiopia: Results of an intervention programme. *PLoS ONE* 2018; Volum 13.(5) s.1-11

Scharf, Rebecca J.; Rogawski, Elizabeth T.; Murray-Kolb, Laura E.; Maphula, Angelina; Svensen, Erling; Tofail, Fahmida; Rasheed, Muneera; Abreu, Claudia; Vasquez, Angel Orbe; Shrestha, Rita; Pendergast, Laura L.; Mduma, Estomih; Koshy, Beena; Conaway, Mark R.; Platts-Mills, James A.; Guerrett, Richard L.; DeBoer, Mark D. Early childhood growth and cognitive outcomes: Findings from the MAL-ED study. *Maternal and Child Nutrition* 2018; Volum 14.(3)

Deboer, Mark Daniel; Platts-Mills, James A.; Scharf, Rebecca J.; McDermid, Joann M.; Wanjuli, Anne W.; Gratz, Jean; Svensen, Erling; Swann, Jon R.; Donowitz, Jeffrey R.; Jatosh, Samwel; Mduma, Estomih. Early Life Interventions for Childhood Growth and Development in Tanzania (ELICIT): A protocol for a randomised factorial, double-blind, placebo-controlled trial of azithromycin, nitazoxanide and nicotinamide. *BMJ Open* 2018; Volum 8.(7)

Kastro, Samson; Demissie, Tsegaye; Kabalo, Bereket Yohannes. Low birth weight among term newborns in Wolaita Sodo town, South Ethiopia: A facility based cross-sectional study. *BMC Pregnancy and Childbirth* 2018; Volum 18.(1) s.1-7

Mukunya, David; Haaland, Marte Emilie Sandvik; Tumwine, James K.; Ndeezi, Grace; Namugga, Olive; Tumuhanye Josephine; Sommerfelt, Halvor; Rujumba, Joseph; Tylleskär, Thorkild; Moland, Karen Marie; Nankabirwa, Victoria. “We shall count it as a part of kyogero”: acceptability and considerations for scale up of single dose chlorhexidine for umbilical cord care in Central Uganda. *BMC Pregnancy and Childbirth* 2018; Volum 18.(476)

Horwood, Christiane; Haskins, Lyn J.; Engebretsen, Ingunn Marie S.; Phakathi, Sifiso E.; Connolly, Cathy; Coutsoudis, Anna; Spies, Lenore. Improved rates of exclusive breastfeeding at 14 weeks of age in KwaZulu Natal, South Africa: What are the challenges now? *BMC Public Health* 2018; Volum 18.(57)

Mazumder, Sarmila; Upadhay, Ravi Prakash; Hill, Zelee; Taneja, Sunita; Dube, Brinda; Kaur, Jasmine; Shekhar, Medha; Ghosh, Runa; Bisht, Shruti; Martines, Jose Carlos; Bahl, Rajiv; Sommerfelt, Halvor; Bhandari, Nita. Kangaroo mother care: Using formative research to design an acceptable community intervention. *BMC Public Health* 2018; Volum 18.(307)

Taneja, Sunita; Rongsen-Chandola, Temsunaro; Mohan, Sanjana Brahmanaw; Mazumder, Sarmila; Bhandari, Nita; Kaur, Jasmine; Arya, Nikita; Chowdhury, Ranadip; Martines, Jose Carlos; Bahl, Rajiv; Bhan, M. K. Mid upper arm circumference as a predictor of risk of mortality in children in a low resource setting in India. *PloS ONE* 2018; Volum 13.(6)

Balikuddembe, Michael; Wakholi, Peter Khisa; Tumwesigye, Nazarius M.; Tylleskär, Thorkild. Midlevel maternity providers’ preferences of a childbirth monitoring tool in low-income health units in Uganda. Studies in Health Technology and Informatics 2018; Volum 247. s.456-460
Tongun, Justin Bruno; Sebit, Mohammed Boy; Ndeezi, Grace; Mukunya, David; Tylleskär, Thorkild; Turnwine, James K. Prevalence and determinants of pre-lacteal feeding in South Sudan: a community-based survey. Global health action 2018; Volum 11.(1)

Upadhyay, Ravi Prakash; Martines, Jose Carlos; Taneja, Sunita; Mazumder, Samila; Bahl, Rajiv; Bhandari, Nita; Dalpath, Suresh Kumar; Bhan, Maharaj Kishan. Risk of postneonatal mortality, hospitalisation and suboptimal breast feeding practices in low birthweight infants from rural Haryana, India: Findings from a secondary data analysis. BMJ Open 2018; Volum 8.(6)

Gjerde, Janne Lillelid; Rørtveit, Guri; Adefris, Mulat; Mekonnen, Hibste; Belayneh, Tadesse; Blystad, Astrid. The lucky ones get cured: Health care seeking among women with pelvic organ prolapse in Amhara Region, Ethiopia. PLoS ONE 2018; Volum 13:e0207651.(11) s.1-17

Chen, Chen; Mitchell, Nicole J.; Gratz, Jean; Houpt, Eric R.; Gong, Yunyun; Egner, Patricia A.; Groopman, John D.; Riley, Ronald T.; Showker, Jency L.; Svensen, Erling; Mduma, Estomih R.; Patil, Crystal L.; Wu, Felicia. Exposure to aflatoxin and fumonisin in children at risk for growth impairment in rural Tanzania. Environment International 2018; Volum 115. s.29-37

Bates, Michael N.; Pokhrel, Amod K.; Chandyo, Ram Krishna; Valentiner-Branth, Palle; Mathisen, Maria; Basnet, Sudha; Strand, Tor A; Burnett, Richard T.; Smith, Kirk R. Kitchen PM2.5 concentrations and child acute lower respiratory infection in Bhaktapur, Nepal: The importance of fuel type. Environmental Research 2018; Volum 161. s.546-553

Venkateswaran, Mahima; Blom-Bakke, Kjersti Mørkrid; Ghanem, Buthaina; Abbas, Eatimad; Abuward, Itimad; Baniode, Mohammad; Norheim, Ole Frithjof; Frien, Frederik. eRegQual-an electronic health registry with interactive checklists and clinical decision support for improving quality of antenatal care: Study protocol for a cluster randomized trial. Trials 2018; Volum 19:54. s.1-12

Nutrition

Morseth, Marianne S.; Henjum, Sigrun; Schwingier, Catherine; Strand, Tor A; Shrestha, Sanjaya; Shrestha, Binob; Chandyo, Ram Krishna; Ulak, Manjeswori; Torheim, Liv Elin. Environmental Enteropathy, Micronutrient Adequacy and Length Velocity in Nepalese Children - the Mal-Ed Birth Cohort Study. Journal of Pediatric Gastroenterology and Nutrition - JPGN 2018; Volum 67.(2)

Singh, Prashant; Arora, Ananya; Strand, Tor A; Leffler, Daniel A.; Catassi, Carlo; Green, Peter H.R.; Kelly, Ciaran P.; Ahuja, Vineet; Makharia, Govind K. Global prevalence of celiac disease: Systematic review and meta-analysis. Clinical Gastroenterology and Hepatology 2018; Volum 16.(6) s.823-836.e2

Winje, Brita Askeland; Kvestad, Ingrid; Krishnamachari, Srinivasan; Manji, Karim P.; Taneja, Sunita; Bellinger, David C.; Bhandari, Nita; Bisht, Shruti; Darling, Anne Marie; Duggan, Christopher P.; Fawzi, Wafae W.; Hysing, Mari; Kumar, Tivendra; Kurpad, Anura V.; Sudfeld, Christopher R.; Svensen, Erling; Thomas, S; Strand, Tor A. Does early vitamin B12 supplementation improve neurodevelopment and cognitive function in childhood and into school age: a study protocol for extended follow-ups from randomised controlled trials in India and Tanzania. BMJ Open 2018; Volum 8.e018962.(2) s.1-9

Strand, Tor A; Ulak, Manjeswori; Kvestad, Ingrid; Henjum, Sigrun; Ulvik, Arve; Shrestha, Merina; Thorne-Lyman, Andrew L; Ueland, Per Magne; Shrestha, Prakash Sunder; Chandyo, Ram Krishna. Maternal and infant vitamin B12 status during infancy predict linear growth at 5 years. Pediatric Research 2018; Volum 84. s.611-618

Singh, Prashant K.; Arora, Alka; Strand, Tor A; Leffler, Daniel A.; Mäki, Markku; Kelly, Ciaran P.; Ahuja, Vineet; Makharia, Govind K. Diagnostic Accuracy of Point of Care Tests for Diagnosing Celiac Disease: A Systematic Review and Meta-Analysis. Journal of Clinical Gastroenterology 2018

Henjum, Sigrun; Kvestad, Ingrid; Shrestha, Merina; Ulak, Manjeswori; Chandyo, Ram K.; Thorne-Lyman, Andrew L.; Shrestha, Prakash S.; Kjellevold, Marian; Hysing, Mari; Strand, Tor A. Erythrocyte DHA and AA in infancy is not associated with developmental status and cognitive functioning five years later in Nepalese children. Nutrition Journal 2018; Volum 17:70. s.1-9
Chowdhury, Ranadip; Taneja, Sunita; Bhandari, Nita; Strand, Tor A; Bhan, Maharaj Kishan. Vitamin D deficiency and mild to moderate anemia in young North Indian children: A secondary data analysis. *Nutrition* (Burbank, Los Angeles County, Calif) 2018; Volum 57. s.63-68

Kashala Abotnes, Esperance; Sombo, Marie-Thérèse; Okitundu, Daniel L; Kunyu, Marcel; Bomoko Makila-Mabe, Guy; Tylleskär, Thorkild; Sikorskii, Alla; Banea, Jean-Pierre; Mumba Ngoyi, Dieudonné; Tshala-Katumbay, Désiré; Boivin, Michael J. Dietary cyanogen exposure and early child neurodevelopment: An observational study from the Democratic Republic of Congo. *PLoS ONE* 2018;Volum 13.(4)

Kashala Abotnes, Espérance; Okitundu, Daniel L; Mumba Ngoyi, Dieudonné; Boivin, Michael J; Tylleskär, Thorkild; Tshala-Katumbay, Désiré. Konzo: a distinct neurological disease associated with food (cassava)cyanogenic poisoning. *Brain Research Bulletin* 2018; Volum 145. s.87-91

Garg, Charu C.; Mazumder, Sarmila; Taneja, Sunita; Shekhar, Medha; Mohan, Sanjana Brahmanwar; Bose, Anuradha; Lyengar, Sharad D; Bahl, Rajiv; *Martines, Jose Carlos*; Bhandari, Nita. Costing of three feeding regimens for home-based management of children with uncomplicated severe acute malnutrition from a randomised trial in India. *BMJ Global Health* 2018; Volum 3.

West, Keith P; Wu, Lee S-F; Ali, Hasmot; Klemm, Rolf D W; Edmond, Karen; Hurt, Lisa; Kirkwood, Betty; Newton, Sam; Shannon, Caitlin S.; Taneja, Sunita; Mazumder, Sarmila; Bhatia, Kiran; Bhandari, Nita; Katz, Joanne; Tielsch, James M; Humphrey, Jean; Ageoistina, Tina; Soofi, Sajid; Ariff, Shabina; Bhatti, Zaid; Cousins, Simon; Bhutta, Zulfiqar A; Ntozini, Robert; Masanja, Honorati; Smith, Emily R; Muhhi, Alfa; Fawzi, Wafaie; Bahl, Rajiv; *Martines, Jose Carlos*; Yoshida, Sachiy. Early neonatal vitamin A supplementation and infant mortality: an individual participant data meta-analysis of randomised controlled trials. *Archives of Disease in Childhood* 2018; Volum 104.(3) s.217-226

Degirmenci, Naim; Fossum, Ingrid Nesdal; Strand, Tor A; Vaktskjold, Arild; Holten-Andersen, Mads Nikolaj. Consumption of energy drinks among adolescents in Norway: a cross-sectional study. *BMC Public Health* 2018; Volum 18.(1391)

Lannebotn, Marianne; *Svanes, Cecilia*; Igland, Jannicke; Franklin, Karl A.; Accordini, Simone; Benediktsdóttir, Bryndís; Bentohuami, Hayat; Blanco, José Antonio Gullón; Bono, Roberto; Corsico, Angelo; Demoly, Pascal; Dharmage, Shyamal; Dorado Arenas, Sandra; Garcia, Judith; Heinrich, Joachim; Holm, Mathias; Janson, Christer; Jarvis, Deborah; Leynaert, Bénédicte; Martin-ez-Moratalla, Jesús; Nowak, Dennis; Pin, Isabelle; Raherison-Semjen, Chantal; Sánchez-Ramos, José Luis; Schlünssen, Vivi; Skulstad, Svein Magne; Dratva, Julia; Gomez Real, Francisco. Body silhouettes as a tool to reflect obesity in the past. *PLoS ONE* 2018; Volum 13:E0195697.(4) s.1-13

### Respiratory health & allergy

Mindus, Stephanie; Malinovschi, Andrei; Ekerljung, Linda; Forsberg, Bertil; Gislason, Pórarinn; Jögi, Rain; Franklin, Karl A.; Holm, Mathias; Johannessen, Ane; Middelveld, Roelinde; Schlüssen, Vivi; *Svanes, Cecilia*; Torén, Kjell; Lindberg, Eva; Janson, Christer. Asthma and COPD overlap (ACO) is related to a high burden of sleep disturbance and respiratory symptoms: Results from the RHINE and Swedish GAZLEN surveys. *PLoS ONE* 2018; Volum 13:e0195055.(4) s.1-10

Jögi, Nils Oskar; *Svanes, Cecilia*; Siak, Silver Peeter; Logan, Erin; Holloway, John W; Igland, Jannicke; Johannessen, Ane; Levin, Michael E.; Gomez Real, Francisco; Schlüssen, Vivi; Horsnell, William G.C.; Bertelsen, Randi Jacobsen. Zoonotic helminth exposure and risk of allergic diseases: A study of two generations in Norway. *Clinical and Experimental Allergy* 2018; Volum 48.(1) s.66-77

Jarvis, Debbie; Newson, Roger; Janson, Christer; Corsico, Angelo; Heinrich, Joachim; Antó, Jósep Maria; Abramson, Michael J.; Kirsten, Anne-Marie; Zock, Jan Paul; Bono, Roberto; Demoly, Pascal; Leynaert, Bénédicte; Raherison, Chantal; Pin, Isabelle; Gislason, Thórarinn; Jögi, Rain; Schlüssen, Vivi; *Svanes, Cecilia*; Watkins, John; Weyler, Joost; Pereira-Vega, Antonio; Urrutia, Isabel; Gullón Blanco, José Antonio; Forsberg, Bertil; Probst-Hensch, Nicole; Boezen, Hendrika Marike; Rovira, Jesús Martinez-Moratalla; Accordini, Simone; De Marco, Roberto; Burney, Peter. Prevalence of asthma-like symptoms with ageing. *Thorax* 2018; Volum 73.(1) s.37-48
Guerra, Beniamino; Haie, Sarah R.; Lamprecht, Bernd; Ramirez, Ana S.; Martinez-Camblor, Pablo; Kaiser, Bernhard; Alfgeme, Immaculada; Almagro, Pere; Casanova, Ciro; Esteban-González, Cristóbal; Soler-Cataluña, Juan J.; de-Torres, Juan P.; Miravitlles, Marc; Celli, Bartolomé R.; Marin, Jose M.; ter Riet, Gerben; Sobradillo, Patricia; Lange, Peter; Garcia-Aymerich, Judith; Antó, José Maria; Turner, Alice M.; Han, Meilan K.; Langhammer, Arnulf; Leivseth, Linda; Bakke, Per S.; Johannessen, Ane; Oga, Toru; Cosio, Borja; Ancochea-Bermúdez, Julio; Echazarreta, Andrés; Roche, Nicolas; Burgel, Pierre-Régis; Sin, Don D.; Soriano, Joan B.; Puhan, Milo A. Large-scale external validation and comparison of prognostic models: An application to chronic obstructive pulmonary disease. *BMCMedicine* 2018; Volum 16:33. s.1-13

Perez Barrionuevo, Antonio Manuel; Gomez Real, Francisco; Igland, Jannicke; Johannessen, Ane; Omenaas, Ernst; Franklin, Karl A.; Barrionuevo, Laura Perez; Åström, Anne Nordrehaug; Svanes, Cecilie; Bertelsen, Randi Jacobsen. Periodontal Health status and lung function in two Norwegian cohorts. *PLoS ONE* 2018; Volum 13:e019410.(1).s.1-15

Erbas, Bircan; Knudsens, Gerd Toril Mørkve; Janson, Christer; Nilsen, Roy Miodini; Accordini, Simone; Benediktđöttir, Bryndis; Dratva, Julia; Heinrich, Joachim; Jarvis, Debbie; Leynaert, Bénédicte; Matheson, Melanie C.; Norbäck, Dan; Gomez Real, Francisco; Raherison- Semjen, Chantal; Villani, Simona; Dharmage, Shyamali Chandrika; *Svanes, Cecilie*. Critical age windows in the impact of lifetime smoking exposure on respiratory symptoms and disease among ever smokers. *Environmental Research* 2018; Volum 164. s.241-247

Bui, Dinh S.; Lodge, Caroline J.; Burgess, John A.; Lowe, Adrian J.; Perret, Jennifer; Bui, Minh Q.; Bowatte, Gayan; Gurrin, Lyle; Johns, David P.; Thompson, Bruce R.; Hamilton, Garun S.; Frith, Peter A.; James, Alan L.; Thomas, Paul S.; Jarvis, Deborah; *Svanes, Cecilie*; Russell, Melissa; Morrison, Stephen C.; Feather, lain; Allen, Katrina J.; Wood-Baker, Richard; Hopper, John; Giles, Graham G.; Abramson, Michael J.; Walters, Eugene H.; Matheson, Melanie C.; Dharmage, Shyamali C. Childhood predictors of lung function trajectories and future COPD risk: a prospective cohort study from the first to the sixth decade of life. *The Lancet Respiratory Medicine* 2018; Volum 6.(7).s.535-544

Svanes, Øistein; Bertelsen, Randi Jacobsen; Lygre, Stein Håkon Låstad; Carsin, Anne Elie; Antó, José Maria; Forsberg, Bertil; García-García, José M.; Gullón, José-Antonio; Heinrich, Joachim; Holm, Mathias; Kogevinas, Manolis; Urrutia, Isabel; Leynaert, Bénédicte; Moratalla, Jesús M.; Le Moual, Nicole; Lytras, Theodore; Norbäck, Dan; Nowak, Dennis; Olivieri, Mario; Pin, Isabelle; Probst-Hensch, Nicole; Schlünssen, Vivi; Sigsgaard, Torben; Skorge, Trude Duelien; Villani, Simona; Jarvis, Debbie; Zock, Jan Paul; *Svanes, Cecilie*. Cleaning at home and at work in relation to lung function decline and airway obstruction. *American Journal of Respiratory and Critical Care Medicine* 2018; Volum 197.(9).s.1157-1163

Gomez Real, Francisco; Burgess, John A.; Villani, Simona; Dratva, Julia; Heinrich, Joachim; Janson, Christer; Jarvis, Debbie; Koplin, Jennifer; Leynaert, Bénédicte; Lodge, Caroline; Lærrum, Birger Norderud; Matheson, Melanie C.; Norbäck, Dan; Omenaas, Ernst; Skulstad, Svein Magne; Sunyer, Jordi; Dharmage, Shyamali C.; *Svanes, Cecilie*. Maternal age at delivery, lung function and asthma in offspring: A population-based survey. *European Respiratory Journal* 2018; Volum 51:1601611.(6).s.1-11

Lytras, Theodore; Kogevinas, Manolis; Kromhout, Hans; Carsin, Anne-Elie; Antó, José Maria; Bentouhami, Chantal; Chinellato, Ane; Breytspraak, Bart; Gómez, Jose M.; Hoyte, Marjorie; Janson, Christer; Jõgi, Rain; Kogevinas, Manolis; Nowak, Dennis; Omenaas, Ernst; Skulstad, Svein Magne; Sunyer, Jordi; Dharmage, Shyamali C.; *Svanes, Cecilie*. Cleaning at home and at work in relation to lung function decline and airway obstruction. *Thorax* 2018. s.1-8

Kuiper, Ingrid Nordeide; *Svanes, Cecilie*; Benediktdöttir, Bryndis; Bertelsen, Randi Jacobsen; Brábäck, Lennart; Dharmage, Shyamali C.; Holm, Mathias; Janson, Christer; Jõgi, Rain; Malinovschi, Andrei; Matheson, Melanie; Moratalla, Jesús Martinez; Gomez Real, Francisco; Sánchez-Ramos, José Luis; Schlünssen, Vivi; Timm, Signe; *Johannessen, Ane*. Agreement in reporting of asthma by parents or offspring - the RHINESSA generation study. *BMC Pulmonary Medicine* 2018; Volum 18:122. s.1-10
Marcon, Alessandro; Locatelli, Francesca; Keidel, Dirk; Beckmeyer-Borowko, Anna B.; Cerveri, Isa; Dharmage, Shyamali C.; Fuertes, Elaine; García-Aymerich, Judith; Heinrich, Joachim; Imboden, Medea; Janson, Christer; Johannessen, Ane; Leynaert, Bénédicte; Pascual Erquicia, Silvia; Pesce, Giancarlo; Schaffner, Emmanuel; Svanes, Cecilie; Urrutia, Isabel; Jarvis, Deborah; Probst-Hensch, Nicole M.; Accordini, Simone. Airway responsiveness to methacholine and incidence of COPD: An international prospective cohort study. Thorax 2018; Volum 73. s.825-832

Perret, Jennifer L.; Matheson, Melanie C.; Gurrin, Lyle C.; Johns, David P.; Burgess, John A.; Thompson, Bruce R.; Lowe, Adrian J.; Markus, James; Morrison, Stephen C.; McDonald, Christine F.; Wood-Baker, Richard; Svanes, Cecilie; Thomas, Paul S.; Hopper, John L.; Giles, Graham G.; Abramson, Michael J.; Walters, E. Haydn; Dharmage, Shyamali C. Childhood measles contributes to post-bronchodilator airflow obstruction in middle-aged adults: A cohort study. Respirology (Carlton South. Print) 2018; Volum 23.(8) s.780-787

Susanto, Nugroho Harry; Schoos, Ann-Marie Malby; Standl, Marie; Lowe, Adrian J.; Dharmage, Shyamali C.; Svanes, Cecilie; Salim, Agus; von Berg, Andrea; Lehmann, Irina; Rasmussen, Morten Arendt; Werchan, Matthias; Bergmann, Karl-Christian; Lodge, Caroline; Abramson, Michael J.; Heinrich, Joachim; Bisgaard, Hans; Erbas, Bircan. Environmental grass pollen levels in utero and at birth and cord blood IgE: Analysis of three birth cohorts. Environment International 2018; Volum 119. s.295-301

Knudsen, Gerd Toril Mørkve; Rezwan, Faisal I.; Jiang, Yu; Karmaus, Wilfried; Svanes, Cecilie; Holloway, John W. Transgenerational and intergenerational epigenetic inheritance in allergic diseases. Journal of Allergy and Clinical Immunology 2018; Volum 142.(3) s.765-772

Marcon, Alessandro; Pesce, Giancarlo; Calciano, Lucia; Bellisario, Valeria; Dharmage, Shyamali C.; Garcia-Aymerich, Judith; Gislason, Thorarin; Heinrich, Joachim; Holm, Mathias; Janson, Christer; Jarvis, Deborah; Leynaert, Bénédicte; Matheson, Melanie C.; Pirina, Pietro; Svanes, Cecilie; Villani, Simona; Zuberbier, Torsten; Minelli, Cosetta; Accordini, Simone. Trends in smoking initiation in Europe over 40 years: A retrospective cohort study. PLoS ONE 2018; Volum 13:e0201881.(8) s.1-14

Fuertes, Elaine; Markevych, Iana; Jarvis, Deborah; Vienneau, Danielle; de Hoogh, Kees; Antó, Jósep Maria; Bowatte, Gayan; Bono, Roberto; Corsico, Angelo G.; Emmner, Margaret; Gislason, Thorarin; Gullén, José-Antonio; Heinrich, Joachim; Henderson, John; Holm, Mathias; Johannessen, Ane; Leynaert, Bénédicte; Marcon, Alessandro; Marchetti, Pierpaolo; Moratalla, Jesús Martínez; Pascual, Silvia; Probst-Hensch, Nicole; Sánchez-Ramos, José Luis; Siroux, Valerie; Sommar, Johan; Weyler, Joost; Kuenzli, Nino; Jacquemin, Bénédicte; Garcia-Aymerich, Judith. Residential air pollution does not modify the positive association between physical activity and lung function in current smokers in the ECRHS study. Environment International 2018; Volum 120. s.364-372

Bui, Dinh S.; Walters, Haydn E.; Burgess, John A.; Perret, Jennifer L.; Bui, Minh Q.; Bowatte, Gayan; Lowe, Adrian J.; Russell, Melissa A.; Thompson, Bruce R.; Hamilton, Garun S.; James, Alan L.; Giles, Graham G.; Thomas, Paul S.; Jarvis, Debbie; Svanes, Cecilie; Garcia-Aymerich, Judith; Erbas, Bircan; Frith, Peter A.; Allen, Katrina J.; Abramson, Michael J.; Lodge, Caroline J.; Dharmage, Shyamali C. Childhood respiratory risk factor profiles and middle-age lung function: A prospective cohort study from the first to sixth decade. Annals of the American Thoracic Society 2018; Volum 15.(9) s.1057-1066

Accordini, Simone; Calciano, Lucia; Johannessen, Ane; Portas, Laura; Benediktsdóttir, Bryndís; Bertelsen, Randi Jacobsen; Brábäck, Lennart; Carsin, Anne-Elie; Dharmage, Shyamali C.; Dratva, Julia; Forsberg, Bertil; Gomez Real, Francisco; Heinrich, Joachim; Holloway, John W.; Holm, Mathias; Janson, Christer; Jögi, Rain; Leynaert, Bénédicte; Malinovschi, Andrei; Marcon, Alessandro; Rovira, Jesús Martínez-Moratalla; Rahérisson, Chantal; Sánchez-Ramos, José Luis; Schlünsen, Vivi; Bono, Roberto; Corsico, Angelo Guido; Démoly, Pascal; Arenas, Sandra Dorado; Nowak, Dennis; Pin, Isabelle; Weyler, Joost; Jarvis, Deborah; Svanes, Cecilie. A three-generation study on the association of tobacco smoking with asthma. International Journal of Epidemiology 2018; Volum 47.(4) s.1106-1117
**Occupational and environmental health**

Andreassen, Cecilie Schou; Pallesen, Ståle; **Moen, Bente Elisabeth**; Bjorvatn, Bjørn; Waage, Siri; Schaufeli, Wilmar B. Workaholism and negative work-related incidents among nurses. *Industrial Health* 2018; Volum 56.(5) s.373-381

Waage, Siri; Pallesen, Ståle; **Moen, Bente Elisabeth**; Bjorvatn, Bjørn. Restless legs syndrome/Willis-Ekbom disease is prevalent in working nurses, but seems not to be associated with shift work schedules. *Frontiers in Neurology* 2018; Volum 9:21. s.1-7

Mamuya, Simon; Sakwari, Gloria; Ngowi, Vera; **Moen, Bente Elisabeth**; Bråtveit, Magne. Dust exposure, fractional exhaled nitric oxide and respiratory symptoms among volcanic rock miners in Kilimanjaro, Tanzania. *Annals of Global Health* 2018; Volum 84.(3) s.380-386

Bjorvatn, Bjørn; Pallesen, Ståle; **Moen, Bente Elisabeth**; Waage, Siri; Kristoffersen, Espen Saxhaug. Migraine, tension-type headache and medication-overuse headache in a large population of shift working nurses: a cross-sectional study in Norway. *BMJ Open* 2018; Volum 8.(11) s.1-7

Nyarubeli, Israel Paul; Tungu, Alexander Mtemi; Bråtveit, Magne; Sunde, Erlend; Kayumba, Akwilina Victory; **Moen, Bente Elisabeth**. Variability and Determinants of Occupational Noise Exposure Among Iron and Steel Factory Workers in Tanzania. *Annals of Work Exposures and Health* 2018; Volum 62.(9) s.1109-1122

Wakuma Abaya, Samson; Bråtveit, Magne; Deressa, Wakgari; Kumie, Abera; **Moen, Bente Elisabeth**. Personal Dust Exposure and Its Determinants among Workers in Primary Coffee Processing in Ethiopia. *Annals of Work Exposures and Health* 2018; Volum 62.(9) s.1087-1095

Wakuma Abaya, Samson; Bråtveit, Magne; Deressa, Wakgari; Kumie, Abera; **Moen, Bente Elisabeth**. Reduced lung function among workers in primary coffee processing factories in Ethiopia: A cross sectional study. *International Journal of Environmental Research and Public Health* 2018; Volum 15.(11)


**Tuberculosis**

Jørstad, Melissa Davidsen; Marijani, Msafiri; Dyrehol-Riise, Anne Ma; Sviland, Lisbeth; **Mustafa, Tehmina**. MPT64 antigen detection test improves routine diagnosis of extrapulmonary tuberculosis in a low-resource setting: A study from the tertiary care hospital in Zanzibar. *PLoS ONE* 2018; Volum 13:e0196723.(5) s.1-15


Jørstad, Melissa Davidsen; Assmus, Jørg; Marijani, Msafiri; Sviland, Lisbeth; **Mustafa, Tehmina**. Diagnostic delay in extrapulmonary tuberculosis and impact on patient morbidity: A study from Zanzibar. *PLoS ONE* 2018; Volum 13:e0203593.(9) s.1-17

Dangisso, Mesay Hailu; Woldezemayat, Endrias Markos; Datiko, Daniel Gemechu; **Lindtjorn, Bernt**. Long-term outcome of smear-positive tuberculosis patients after initiation and completion of treatment: A ten-year retrospective cohort study. *PLoS ONE* 2018; Volum 13.(3)
Vaccines

Govasli Larsen, Morten Andreas; Diaz, Yuleima; Zegeye, Ephrem Debebe; Darbakk, Christine; Taxt, Arne Michael; Puntervoll, Pål. Purification and characterization of native and vaccine candidate mutant enterotoxigenic escherichia coli heat-stable toxins. *Toxins* 2018; Volum 10.274.(7) s.1-15


Zegeye, Ephrem Debebe; Govasli Larsen, Morten Andreas; Sommerfelt, Halvor; Puntervoll, Pål. Development of an enterotoxigenic Escherichia coli vaccine based on the heat-stable toxin. *Human Vaccines & Immunotherapeutics* 2018

Arnesen, Sveinung; Bærøe, Kristine; Cappelen, Cornelius; Carlsen, Benedicte. Could information about herd immunity help us achieve herd immunity? Evidence from a population representative survey experiment. *Scandinavian Journal of Public Health* 2018; Volum 46.(8) s.854-858

Violence & mistreatment

Alsaker, Kjersti; Moen, Bente Elisabeth; Baste, Valborg; Morken, Tone. Seksuell tvang i ekteskap eller samboerforhold henger sammen med annen type partnervold. *Sykepleien Forskning* 2018; Volum 2018:e70230.(13) s.1-21

Alsaker, Kjersti; Moen, Bente Elisabeth; Morken, Tone; Baste, Valborg. Intimate partner violence associated with low quality of life-a cross-sectional study. *BMC Women’s Health* 2018; Volum 18:148. s.1-7

Ruelas-González, María Guadalupe; Pelcastre-Villafuerte, Blanca Estela; Monterrubio-Flores, Eric; Alcalde-Rabanal, Jacqueline Elizabeth; Ortega-Altamirano, Doris Veronica; Ruano, Ana Lorena; Saturno Hernandez, Pedro J. Development and validation of a Screening Questionnaire of Family Mistreatment against Older Adults for use in primary care settings in Mexico. *Health and Social Care in the community* 2018; Volum 26.(1) s.102-112

Others

Dullie, Luckson; Meland, Eivind; Hetlevik, Øystein; Mildestvedt, Thomas; Gjesdal, Sturla. Development and validation of a Malawian version of the primary care assessment tool. *BMC Family Practice* 2018; Volum 19.(63) s.1-11

Dullie, Luckson; Meland, Eivind; Mildestvedt, Thomas; Hetlevik, Øystein; Gjesdal, Sturla. Quality of primary care from patients’ perspective: a cross sectional study of outpatients’ experience in public health facilities in rural Malawi. *BMC Health Services Research* 2018; Volum 18.(1)

Woldesemayat, Endrias Markos; Kassa, Andargachew; Ayana, Taye Gari; Dangisso, Mesay Hailu. Chronic diseases multi-morbidity among adult patients at Hawassa University Comprehensive Specialized Hospital. *BMC Public Health* 2018; Volum 18.(352) s.1-8

Ibrahim, Mohamed; Schölermann, Julia; Mustafa, Kamal Babikeir Eln; Cimpan, Mihaela Roxana. TiO2 nanoparticles disrupt cell adhesion and the architecture of cytoskeletal networks of human osteoblast-like cells in a size dependent manner. *Journal of Biomedical Materials Research. Part A* 2018; Volum 106.(10) s.2582-2593

Mugisha, Alice; Krumsvik, Ole Andreas; Tylleskär, Thorkild; Babic, Ankica. Data Collectors’ Design Preferences for Mobile Electronic Data Capturing Forms. *Studies in Health Technology and Informatics* 2018; Volum 251. s.93-96