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1. FROM THE CENTRE DIRECTOR

This year was filled with changes! However, the vision at CIH remains. We wish that:

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

One of the changes was for CIH to move from Overlege Danielsens House, where we normally are located. The building was in need of improvements, and the rehabilitation process will take about a year. We have found new, temporary offices in Jekteviksbakken 31. It is far from the rest of the Faculty of Medicine, but as the University of Bergen owns this building together with Chr. Michelsen’s Institute, it gives us an opportunity to meet new, interesting colleagues. In particular, development research activities have been located at Jekteviksbakken 31 for years.

Another change this year was CIH merging together with the administrative unit "UiB Global" in Jekteviken. This is a part of the University strategy and the University will give priority to the thematic area “Global Challenges” in the coming years. For CIH, this means an opportunity to co-operate more closely with the Global group, enabling us to promote more and better inter-faculty research and education in this area. This is providing us with new possibilities, and is in line with the aims at CIH.

This year we received the first students in our new Master programme in Global Health. We have merged our two previous Master studies in International Health and Oral Sciences. The governmental decision to stop the “Quota” scholarship programme last year has significantly changed our student group. Earlier we educated students from low-income countries, mainly from partner institutions. The Quota scholarships were critically important to this capacity building activity, and our students actually returned to their home institutions. Without this funding support, we are necessarily attracting a different kind of students, and we are adjusting to this change. It is challenging and interesting, and we hope our new Master programme will be sustainable! In addition, we will continuously work for an important aim of CIH: Capacity building in our partner countries.

The job demands at the Centre remain high, both for the scientific and administrative staff. CIH has many large research projects and more than 60 PhD candidates. In addition, we have a group of PhD candidates at Hawassa University in Ethiopia, who are part of a newly established joint degree programme. It is fantastic!

I would like to conclude by saying that it is a privilege to work together with the staff and students at CIH. Thank you all, you are impressive, and 2017 has been a great year!

April 2018
Bente E. Moen
*Director, CIH*
2. RESEARCH
2.1 HIGHLIGHTS IN RESEARCH

2017 has been a very strong year for research at CIH. Our researchers are involved in more than 30 projects in 15 different countries.

CIH researchers have been actively involved presenting their work at international conferences, and have been invited guest speakers at many. We have around 150 publications in 2017. In this report, we present just a few of the projects we work on as examples; we cannot write about them all. We suggest you look at the project list and the publication list to get a more complete picture of the research activity at CIH.

In addition, CIH has engaged in new networking initiatives that we believe will strengthen our ability to engage in new funding and research opportunities (read more in this report chapter 5).

2.1.1 New TB Test

Professor Tehmina Mustafa, has developed a new robust, rapid, sensitive, and specific test for TB, implementable in low-resource settings!

Mustafa leads multi-national research efforts into improved diagnosis of tuberculosis (TB). She explains that while in countries such as Norway, the number of cases of TB diagnosed per year is 6–9 per 100 000 citizens, in low- and middle-income countries this number can be as high as almost 300 people per 100 000 citizens. According to Mustafa, the incidence of the more difficult to detect extrapulmonary TB is often under-reported. It is estimated that at least 18–20% of all TB cases are extrapulmonary, and this may be as high as 50% in children as well as in those who are HIV co-infected.

There are a number of challenges associated with correct diagnosis of extrapulmonary TB, particularly in low- and middle-income countries, where treatment is usually started on clinical suspicion without laboratory support. These can easily result in either over- or under-diagnosis leading to increased morbidity and mortality, with the significant accompanying socio-economic consequences. Extrapulmonary TB also has

Undertaking lab work. Photo: Tehmina Mustafa
a lower bacterial burden, making it more difficult to identify with routine methods and requiring more advanced lab technology and facilities, which are beyond the health system infrastructure of many low- and middle-income countries.

In 2006, Mustafa published findings describing the immunohistochemistry-based analyses that detect an antigen, MPT64. MPT64 is a protein that accumulates in TB-infected host cells during the disease process. She has since shown, in a series of studies in Norway, Zanzibar, Tanzania, India and Pakistan, that assaying for MPT64 is an effective way to identify the presence of TB, including for different types of extrapulmonary TB. In addition to being robust, sensitive, and specific, the MPT64 test is relatively rapid, requiring about 1 day to carry out as compared to the conventional culture method, which requires 4–8 weeks. Implementation of an MPT64 test in routine diagnostic settings will improve TB diagnosis in a cost- and time-effective way for the vulnerable populations of low- and middle-income countries.

2.1.2 Choosing Between Starvation and Disease
Espérance Kashala-Abotnes, a CIH researcher, is training care-givers in DRC how to prevent Konzo Disease in very young Congolese children.

Konzo Disease is a debilitating, irreversible motor neuron disease that is directly caused by eating insufficiently processed cassava (yuca), which is an important food staple for around 600 million people worldwide in equatorial regions. Individuals affected by the disease walk with a strained gait (konzo means “tied legs”) due to neurodegeneration, which leads to irreversible paralysis. It is a disease that affects mostly women and children.

Kashala-Abotnes is a Psychiatrist and Neurologist as well as an Appointed Expert at the International Criminal Court. She has been and continues to be involved in a number of studies investigating the broader Konzo problem in the Democratic Republic of Congo (DRC). The Research Council of Norway’s project “Enfance Africaine-Child mental health in francophone Africa” focuses on children 1–4 years of age in a particular region of southwestern DRC. It is an observational study addressing whether there is an association between exposure to cassava cyanogen, early child neurodevelopment, and other factors. In this region the soil is very acidic and only one species of cassava thrives. Unfortunately, the nature of the soil means that the cassava roots take up cyanogens. The roots can be safely eaten, however, if they are soaked for 3–4 days. The poor, rural populations in this area thus face difficult challenges: go hungry and wait, or eat sooner and be poisoned.
The preliminary results, which showed that both mothers and children have dangerously high thiocyanate levels in their urine, enabled Kashala-Abotnes and her international research team to successfully obtain funding for another project, an intervention study, from the African Partnership scaling grant award at Michigan State University. The project involves a care-giver training in the “Wetting Method” intervention, and is designed to enhance both emotional and cognitive development in at-risk children, in addition to preventing the neurodevelopmental impact of konzo disease resulting from poorly processed cassava.

In addition, Kashala-Abotnes plans to continue documenting this vulnerable population in a Stage II project where she will go on to study school-age children.

2.1.3 Maternal Mortality More Than Halved

Making standard delivery services available for all is the most important factor for improving maternal mortality. Furthermore, the study suggests that stillbirths can also be reduced if the health services focus on improved obstetric care.

Professor Bernt Lindtjørn led a project in south-western Ethiopia studying how a number of interventions could reduce maternal mortality and stillbirths. As a result of the research efforts, there was 64% reduction in maternal mortality and a 46% reduction in stillbirths.

Lindtjørn explains that there are several reasons why mothers die in childbirth, but he highlights that the main causes are insufficient numbers of institutions and trained personnel, as well as a lack of access to services (i.e. transportation) as being the most important factors.
The project’s positive results were associated with increasing the numbers of trained staff, increasing the numbers of institutions undertaking Comprehensive Emergency Obstetric Care (CEmOC), increasing the numbers of mothers having Caesarean sections, increasing in the numbers of antenatal controls and referrals, improving access to health service, decreasing in number of home deliveries and decreasing the use of traditional birth attendants.

The goals for the project were straight forward and included making small hospitals available for rural populations, improving referrals (i.e. from health posts to health centres to hospitals when necessary), undertaking additional training for non-clinical physicians, nurses, midwives, and health extension workers, making essential equipment available, and supervising the health care services on offer.

The project was based on the principle of “learning by doing” and involved short courses in Basic Emergency Obstetric Care (BEmOC) and Comprehensive Emergency Obstetric Care (CEmOC), as well as anaesthesiology, scrub nursing and Continuing Medical Education (CME). It also included Master and PhD training in Public Health: one PhD and 6 master degrees resulted from the project.

2.1.4 NORHED Success Story!

The HI-TRAIN inter-faculty, inter-institution collaboration has established sustainable, capacity-building courses in Health Information Technology in Kenya and Uganda.

The NORHED project is entitled, “Better Health Information for better health care”. It responds to Kenya and Uganda’s need for trained health information technologists to manage the digitalization of their national health data systems. It involves Moi University in Kenya and Makerere University in Uganda, as well as the Department of Informatics and the Centre for International Health at the University of Bergen. Khalid Mughai, from the Department of Informatics, at the Faculty of Mathematics and Natural Sciences, at the University of Bergen (UiB) is the project coordinator for UiB.

Professor Thorkild Tylleskår from CIH explains that HI-TRAIN had 2 main objectives. The first was to design and implement a Master of Science in Health Informatics programme at the 2 African universities. The programme is now being offered for the third time at Moi University and for the second time at Makerere University. It includes truly cross-over courses that provide medical personnel with necessary IT competencies, and IT personnel with a working understanding of medical issues.

The second objective was to train staff to be able to ensure the continuation of the Master programme once the project period is over. This capacity building involves the training of PhD students from the 2 universities. A total of 8 PhDs (4 from each university) are now in the middle of their study programme. The PhDs are jointly supervised by faculty in Africa and Bergen.
### 2.2 MAIN RESEARCH PROJECTS

This list includes the main projects administered at CIH.

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>DURATION</th>
<th>PROJECT LEADER</th>
<th>FUNDING SOURCE</th>
<th>MAIN COUNTRIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc as an adjunct for the treatment of very severe disease in infants younger than 2 months</td>
<td>2014–2018</td>
<td>Bhatnagar, Shinjini</td>
<td>NFR/GLOBVAC</td>
<td>India, Nepal</td>
</tr>
<tr>
<td>Enfance Africaine - Mental child health in francophone Africa</td>
<td>2014–2018</td>
<td>Abotnes, Esperance Kashala</td>
<td>NFR/GLOBVAC</td>
<td>Burkina Faso, Democratic Republic of the Congo</td>
</tr>
<tr>
<td>Improving diagnosis of extrapulmonary tuberculosis by implementation of a sensitive and specific assay in routine tuberculosis diagnostics</td>
<td>2014–2018</td>
<td>Mustafa, Tehmina</td>
<td>NFR/GLOBVAC</td>
<td>India, Pakistan, Tanzania</td>
</tr>
<tr>
<td>New Vaccine against traveler’s diarrhea caused by ETEC</td>
<td>2016–2019</td>
<td>Barczyk, Malgożata / Sommerfelt, Halvor</td>
<td>NFR/BTO</td>
<td>India</td>
</tr>
<tr>
<td>SeeTheChild – Mental child health in Uganda</td>
<td>2013–2018</td>
<td>Engebretsen, Ingunn</td>
<td>NFR/GLOBVAC</td>
<td>Uganda</td>
</tr>
<tr>
<td>Centre of Excellence: Centre for Intervention Science in Maternal and Child Health (CISMAC)</td>
<td>2013–2023</td>
<td>Sommerfelt, Halvor</td>
<td>NFR/GLOBVAC</td>
<td>Pakistan, Ethiopia, Uganda, India, Nepal, South Africa, Zambia, Palestine</td>
</tr>
<tr>
<td>Combining indoor residual spraying and long-lasting insecticidal nets for preventing malaria: Clust randomized trial in Ethiopia</td>
<td>2012–2018</td>
<td>Lindtjørn, Bernt</td>
<td>NFR/GLOBVAC</td>
<td>Ethiopia</td>
</tr>
<tr>
<td>SURVIVAL PLUSS: Increasing capacity for mama-baby survival in post-conflict Uganda and South Sudan</td>
<td>2013–2018</td>
<td>Tylleskår, Thorkild</td>
<td>NORHED</td>
<td>Uganda, South Sudan</td>
</tr>
<tr>
<td>HI-TRAIN – Health Informatics training and research in East Africa for improved health care</td>
<td>2013–2018</td>
<td>Tylleskår, Thorkild</td>
<td>NORHED</td>
<td>Kenya, Uganda</td>
</tr>
<tr>
<td>SENUPH - 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>Ethiopia</td>
</tr>
<tr>
<td>Reduction of the burden of injuries and occupational exposures through capacity building in low income countries.</td>
<td>2014–2018</td>
<td>Moen, Bente Elisabeth</td>
<td>NORHED</td>
<td>Ethiopia, Tanzania</td>
</tr>
<tr>
<td>Capacity building in postgraduate surgical training and research in Malawi</td>
<td>2014–2018</td>
<td>Lindtjørn, Bernt</td>
<td>NORHED</td>
<td>Malawi</td>
</tr>
<tr>
<td>STOPENTERICS - Vaccination against Shigella and ETEC: novel antigens, novel approaches</td>
<td>2010–2018</td>
<td>Sommerfelt, Halvor</td>
<td>EU</td>
<td>Europe</td>
</tr>
<tr>
<td>Malaria Chemoprevention for the post-discharge management of severe anaemia in children in Malawi, Uganda and Kenya: Moving towards policy</td>
<td>2014–2019</td>
<td>Robberstad, Bjarne</td>
<td>NFR/GLOBVAC</td>
<td>Malawi, Uganda, Kenya, Europe, USA</td>
</tr>
<tr>
<td>ETECVAC, Development of a vaccine for enterotoxigenic E. coli based on the heat-stable toxin</td>
<td>2014–2018</td>
<td>Sommerfelt, Halvor</td>
<td>NFR</td>
<td>India</td>
</tr>
<tr>
<td>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>Nepal</td>
</tr>
<tr>
<td>ALEC, Aging Lungs in European Cohorts</td>
<td>2015–2019</td>
<td>Svanes, Cecilie</td>
<td>EU</td>
<td>Europe</td>
</tr>
<tr>
<td>The effectiveness of a girl empowerment programme on early childbearing, marriage and school dropout in Rural Zambia: A cluster trial</td>
<td>2015–2020</td>
<td>Sandey, Ingyvild Fossgard</td>
<td>NFR</td>
<td>Zambia</td>
</tr>
<tr>
<td>Competing discourses impacting girls and women’s rights: Fertility control and safe abortion in Ethiopia, Tanzania and Zambia SAFETZ</td>
<td>2016–2018</td>
<td>Blystad, Astrid</td>
<td>NFR</td>
<td>Ethiopia, Tanzania, Zambia</td>
</tr>
<tr>
<td>Randomized Phase III Clinical Trial Assessing a Supraglottic Device versus Face-Mask Ventilation in Neonatal Resuscitation in Africa</td>
<td>2016–2019</td>
<td>Tylleskår, Thorkild</td>
<td>NFR</td>
<td>Mozambique, Uganda</td>
</tr>
<tr>
<td>Strengthen Health Economics Capacity at Bergen and MUHAS</td>
<td>2017–2021</td>
<td>Robberstad, Bjarne</td>
<td>SIU</td>
<td>Tanzania</td>
</tr>
<tr>
<td>Strengthening Health Systems and health care implementation through Network-based graduate training and research education in Zambia</td>
<td>2017–2022</td>
<td>Robberstad, Bjarne</td>
<td>SIU</td>
<td>Zambia</td>
</tr>
</tbody>
</table>
###项目标题

<table>
<thead>
<tr>
<th>项目标题</th>
<th>2016-2020</th>
<th>博物官, 奥·弗里德霍夫</th>
<th>比尔·梅林达·盖茨基金会</th>
<th>埃塞俄比亚, 美国</th>
</tr>
</thead>
<tbody>
<tr>
<td>美国预防疾病优先级 - 埃塞俄比亚</td>
<td></td>
<td>Norheim, Ole Frithjof</td>
<td>Bill &amp; Melinda Gates</td>
<td>Ethiopia, USA</td>
</tr>
<tr>
<td>维生素B12补充在尼泊尔婴幼童对生长和发育的影响</td>
<td>2014-2018</td>
<td>Strand, Tor A</td>
<td>Thasher Research Found</td>
<td>Nepal, USA</td>
</tr>
<tr>
<td>为消除埃塞俄比亚中性粒细胞及生殖感染提供治疗</td>
<td></td>
<td>Engebretsen, Ingunn M. S.</td>
<td>Save the Children</td>
<td>Finland</td>
</tr>
<tr>
<td>维生素B12和大脑发育在尼泊尔的高硫胺酸-4-喹诺酮-2-氨水化合物及治疗</td>
<td>2017-2018</td>
<td>Strand, Tor A</td>
<td>GC Rieber fondet</td>
<td>Nepal</td>
</tr>
<tr>
<td>间日疟原虫及青蒿素-巴曲青霉素和大环内酯治疗对孕妇的影响</td>
<td>2017-2020</td>
<td>Robberstad, Bjarne</td>
<td>EU</td>
<td>Kenya, Malawi,</td>
</tr>
<tr>
<td>间日疟原虫及青蒿素-巴曲青霉素和大环内酯治疗对孕妇的影响</td>
<td></td>
<td>Van den Bergh, Graziella</td>
<td>NFR</td>
<td>Tanzania</td>
</tr>
<tr>
<td>创新与规模?发展前景研究在Visjon 2030项目</td>
<td></td>
<td>Van den Bergh, Graziella</td>
<td>NFR</td>
<td>Tanzania</td>
</tr>
</tbody>
</table>

2.3 中心的使命

CIH的使命是在低中收入国家进行研究和能力建设。
CISMAC engages early with low- and middle-income country (LMIC) health authorities as well as with the World Health Organization to effectively translate its research results into policy and practice. All projects include significant capacity-strengthening activities, in the four Norwegian partner institutions as well as in LMIC research organizations.

CISMAC’s Executive Committee highlighted that the Centre’s research results are of high scientific quality and can thereby be used to guide policy and develop strategies to enhance maternal, newborn and child health, survival and development. It underlines that an integral part of CISMAC’s work is to strengthen technical research competence and skills in Norway and in partner countries. They write that in recognition of the Norwegian authorities’ emphasis on evidence-based decision-making and on capacity strengthening in low- and middle-income countries, it is the Centre’s hope that its activity will make an important contribution to the focus and efficiency of Norway’s Overseas Development Cooperation.

Per Bakke, the Dean of the Faculty of Medicine at the University of Bergen and the Chair of the CISMAC Board, writes that CISMAC’s research is at the heart of the University of Bergen’s Global Challenges Strategy and that the Centre plays a pivotal role in the university’s focus on cutting-edge global health and development research, both in terms of the issues addressed and the quality of the science. He adds that CISMAC has also created excellent opportunities for PhD and postdoctoral fellows to participate in the meticulous and systematic design, planning and implementation activities that are required to conduct high quality intervention research. CISMAC also gives postdoctoral fellows and other young researchers an opportunity to lead studies or study subcomponents, under the guidance of leading experts in the field.
3. EDUCATION AND COMPETENCY BUILDING
Master programme in Global Health

This year was the first year CIH offered the Master in Global Health programme. This Master programme was established by merging two previous Master programmes, International Health and Oral Sciences. CIH is very excited about these changes. It should make the programme more sustainable and CIH will continue to improve and revise the curriculum in the coming years.

Online courses

For the first time, CIH offered an online course in “Global Tuberculosis Epidemiology and Intervention”. The course was led by Professors Tehmina Mustafa and Sven Gudmund Hinderaker. It was developed as a part of an Erasmus+ project, in cooperation with Queen Margaret University in Edinburgh and KIT Royal Tropical Institute in Amsterdam. The project explores “virtual mobility” for students instead of physically moving between institutions. It combines the Erasmus advantage of giving students access to international expertise at different academic institutions, but avoids the administrative challenges of physical travel and residence. The pilot project involves 24 students, 8 from each institution. The project group plans to submit another project proposal for the next Erasmus period to build on the current project’s experiences.

Medical student elective in Global Health

CIH has been responsible for organising an elective course in Global Health since 2008. Most take a 2-month field experience abroad as part of the course. Sven Gudmund Hinderaker is the current course leader for this popular elective.

The Faculty of Medicine at UiB undertook a thorough re-organisation of its medical studies curriculum, to better equip students to address the explosive developments ongoing in medical knowledge, and the changing demands and expectations of the roles doctors play in health systems. The new programme started in autumn 2015, and resulted in a very large elective group in 2016. However, because of semester course changes in the new curriculum, the elective was not offered in 2017, but will be offered again in 2018, and thereafter once per year.
Massive Open Online Courses (MOOCs)

Researchers at CIH have been involved in the development of 2 MOOCs. Both are available on the platform, FutureLearn.

**OCCUPATIONAL HEALTH IN DEVELOPING COUNTRIES**

CIH's first foray into Massive Open Online Course education was led by Bente Moen with the course, “Occupational Health in Developing Countries”. It was awarded UiB's top education prize, the Owl Award for 2017, as well as the prize for Internationalisation in Education at the Faculty of Medicine. The course was designed to provide basic information about occupational health, and particularly target health personnel and policy makers in low- and middle-income countries, where such training is not available.

Around the world, workers are dying in needless work-related accidents or diseases. Better knowledge and education could prevent many of these tragic and costly events. Bente Moen spear-headed the collaborative effort to develop the MOOC. The course has been offered twice a year since 2016, and thus far has been taken by ~12,000 students from over 150 different countries.

**MEDICAL PEACE WORK**

Led by Ingvild Fossgard Sandøy, the MOOC aims to provide healthcare professionals with more knowledge about the vital role healthcare plays in violence prevention and peace-building both globally and locally. Course participants will learn more about recognising and responding to signs of domestic violence or torture in clinical practice; providing appropriate healthcare in conflict areas and for refugees; and, prepare for the health effects of climate change and nuclear war. Offered twice in 2017, nearly 3000 students registered in total for the course.

**BSRS**

CIH researchers have continued to be actively involved in producing courses for UiB’s Bergen Summer Research School, held in June of every year. In 2017, this effort was led by Ingunn Marie S. Engebretsen, and entitled, “Mental Health and Child Development in Societies of Change”.

**CIH Research School**

PhD candidates are very important at CIH. Currently there are 59 candidates enrolled at CIH in a PhD programme. In addition, there are 7 PhD candidates enrolled in the joint degree programme, described below, with Hawassa University. In 2017, CIH began an initiative to profile this important research activity more visibly. The goal is to produce a web page describing the research activity of each PhD candidate! Solomon Kebede Gebremeskel and Elinor Bartle are involved with this work.
Hallgeir Kismul has been responsible for leading the Research School activities this year. There have been a number of Wednesday seminars on various topics, including PhD research projects. There has also been a two-day seminar on Effective Poster Writing. This was held at Alver Hotel. Sven Gudmund Hinderaker, Hallgeir Kismul, Bente Moen, and Gunhild Koldal led the seminar, which was attended by 10 PhD candidates.

**Joint Degrees – PhD**

CIH has been involved in a joint-degree PhD programme with Hawassa University in Ethiopia for 3 years. A total of 18 candidates have been enrolled thus far in the programme. Bernt Lindtjørn coordinates the programme with funding from the South Ethiopia Network of Universities in Public Health (SENUPH) and the Norwegian Program for Capacity and Development in Higher Education and Research for Development (NORHED). Using the model of the joint degree programme established with Makerere University in Uganda, Lindtjørn says that the goal is to gradually empower Hawassa University to start its own PhD programme.

A joint PhD programme means that it is conducted by two degree awarding institutions. Joint degree candidates must comply with admission and assessment requirements of both universities. Successful candidates are awarded one joint PhD diploma with the two university logos.

### 3.1 COMPLETED MASTERS

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE OF THESIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amalie Aase Boge</td>
<td>“A girl’s fertility is not her own”: Perceptions and experiences of contraceptive-use and family planning among women in Zanzibar</td>
</tr>
<tr>
<td>Feven Girma</td>
<td>Femur Bone Fracture Treatment in Addis Ababa, Ethiopia: A Cost-effectiveness Analysis</td>
</tr>
<tr>
<td>Mwila Lundamo</td>
<td>Adolescent’s perceptions of masculinity and femininity in the context of sexual and reproductive health in Southern Province, Zambia</td>
</tr>
<tr>
<td>David Mukunya</td>
<td>“We shall count it as a part of kyogero”: The acceptability of chlorhexidine for umbilical cord care in the cultural context of Central Uganda</td>
</tr>
<tr>
<td>Doreen Pamba</td>
<td>Secrecy, shame and ambivalence in adolescent pregnancy prevention. Experiences from Mbeya, Tanzania</td>
</tr>
<tr>
<td>Maija Rankinen</td>
<td>“To become independent and remain independent”: Living with mobility impairments in rural Peru</td>
</tr>
</tbody>
</table>

Professor Ingunn Marie S. Engebretsen lecturing a group of students at CIH. Photo: Ingunn Marie S. Engebretsen
3.2 CANDIDATES IN MASTER PROGRAMMES

### BEGINNING IN 2015 (15–17)
- Hassan Abdelraouf, Mohamed Ali
- Awealom, Akeza
- Irobe, Amalie Aase
- Deleta, Samuel Darge
- Dullie, Luckson
- Gaafar Mohamed, Nuha Mohamed
- Girma, Feven
- Hurissa, Mengistu Bekele
- Lundamo, Mwila
- Mohamed, Nazar
- Mukunya, David
- Nima, Dawit Desalegn
- Pamba, Doreen
- Paul, Israel
- Roro, Meselech Assegid
- Shrestha, Jasmin
- Sitali, Lungowe
- Tumuhanya, Josephine

### BEGINNING IN 2016 (16–18)
- Alhousain, Mohamad Hashem
- Baniya, Suraj
- Baral, Dibash
- Ben Mohamed, Fatima Zohra
- Gajurel, Rashmi
- Khabiri, Mahsa
- Kleppe, Amalie Kaldefoss
- Munir, Arooj
- Olow, Khadija Hassan
- Rahmani, Yahya Khan
- Riaz, Sabia Huma
- Saleem, Ragda
- Ugelvik, Gunhild Stølen
- Saha, Shuvashis

### BEGINNING IN 2017 (17–19)
- Ahmed, Rahima Shikur
- Akter, Mahnaj
- Belete, Wondesen Nigatu
- Caglar, Ege Su
- Chen, Hongyu
- Isaksen, Katja
- Khammash, Mawia
- Kristensen, Hannah Rigitze
- Lamp, Marte Bodil Rød
- Mirutse, Mizan Kirsh
- Mohammed Ali, Iman
- Musta, Laura
- Nnko, Asnath
- Saha, Yoldas
- Shrestha, Soni
- Tanko, Katumi

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3.3 MEDICAL STUDENTS IN RESEARCH PROGRAMME

<table>
<thead>
<tr>
<th>STUDENT</th>
<th>SUPERVISOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grønvik, Taran</td>
<td>Sandøy, Ingvild</td>
</tr>
<tr>
<td>Halvø, Ragnhild Sørbøen</td>
<td>Blystad, Astrid/Moland, Karen Marie/Kiserud, Torvid</td>
</tr>
<tr>
<td>McLean, Emily</td>
<td>Blystad, Astrid/Moland, Karen Marie</td>
</tr>
<tr>
<td>Pannu, Mehmajeet Kaur</td>
<td>Robberstad, Bjarne</td>
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<tr>
<td>Skyldstad, Vilde</td>
<td>Engebretsen, Ingunn M. S.</td>
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<tr>
<td>Solheim, Ingrid Holm</td>
<td>Blystad, Astrid/Moland, Karen Marie</td>
</tr>
<tr>
<td>Svege, Sarah</td>
<td>Robberstad, Bjarne/Lange, Siri</td>
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<tr>
<td>Olsen, Maria</td>
<td>Norheim, Ole F/Solomon, Memirie</td>
</tr>
</tbody>
</table>
3.4 DOCTORAL DEGREES AWARDED

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Defence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ulesido, Fekadu Massebo</td>
<td>“Malaria vectors in southern Ethiopia. Some challenges and opportunities for vector control”.</td>
<td>31 January, 2017</td>
</tr>
<tr>
<td>Nigatu, Amare Workiye</td>
<td>“Respiratory health and acute pesticide intoxications among workers in the flower farm industry in Ethiopia”.</td>
<td>30 May, 2017</td>
</tr>
<tr>
<td>Kirunda, Tebagalika Barbara Eva</td>
<td>“Body weight and physical activity of adults in rural Uganda”.</td>
<td>16 June, 2017</td>
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<tr>
<td>Katirayi, Leila</td>
<td>“Experiences of the Prevention of Mother to Child Transmission of HIV program in Southern Africa: A three country qualitative study”.</td>
<td>22 June, 2017</td>
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<tr>
<td>Hamusse, Shallo Daba</td>
<td>“Tuberculosis Control in Arsi in Ethiopia: Programme Performance and Disease Burden”.</td>
<td>4 September, 2017</td>
</tr>
<tr>
<td>Schwinger, Catherine</td>
<td>“Growth velocity of young children in two low-resource settings: Patterns and abilities to predict negative health outcomes”.</td>
<td>12 December, 2017</td>
</tr>
</tbody>
</table>

Fekadu Massebo Ulesido is a university lecturer at the Department of Biology at Arba Minch University in Ethiopia. His studies are part of CIH’s activity to strengthen malaria research in southern Ethiopia.

Supervisor: B. Lindtjørn

Peter Hangoma obtained his undergraduate degrees from the University of Zambia. He is a Lecturer at the university’s School of Public Health, where he heads the Department of Health Promotion, Economics and Policy. He also teaches at Department of Economics in the School of Humanities and Social Sciences.

Supervisor: B. Robberstad

Amare Workiye Nigatu completed his undergraduate education in both the Netherlands and Ethiopia. His PhD degree was funded under the Quota Scheme. He worked as a member of the research group Occupational and Environmental Medicine in Developing Countries at CIH.

Supervisors: B. Moen/M. Bråtveit

Barbara E. Kirunda completed her undergraduate education at Makerere University in Uganda. She is an Associate Lecturer at the Section for Epidemiology and Biostatistics at the university’s Department of Public Health.

Supervisor: T. Tylleskär

Leila Katirayi is from the USA. She took her Master degree at Lund University in Sweden. She is a researcher with the Elizabeth Glaser Paediatric AIDS Foundation.

Supervisors: K. M. Moland/T. Tylleskär

Shallo Daba Hamusse is from Arsi in central Ethiopia. He completed his Master degree at the University of Amsterdam. He is currently the Director of the HIV/AIDS Prevention and Control Office in Ethiopia.

Supervisor: B. Lindtjørn

Vundli Ramokolo completed her undergraduate studies in South Africa. She currently works at the Medical Research Council in Cape Town.

Supervisor: Ingunn M. S. Engebretsen

Catherine Schwinger is from Germany. Her background is in sports medicine and she has studied overweight and obesity in pre-school children. Her research interests include nutrition, physical activity, epidemiology, reproductive health and public health.

Supervisor: T. Strand
### 3.5 PHD CANDIDATES

<table>
<thead>
<tr>
<th>NAME</th>
<th>PROJECT TITLE</th>
<th>SUPERVISOR</th>
<th>CO-SUPERVISOR(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akol, Angela</td>
<td>Evaluating entry into mental health services for children and adolescents in Uganda by primary health care workers and traditional healers: A cluster randomised trial in Eastern Uganda</td>
<td>Engebretsen, Ingunn</td>
<td>Moland, K./Babirye, J.</td>
</tr>
<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>Bråtveit, Magne</td>
</tr>
<tr>
<td>Ayana, Taye Gari</td>
<td>Malaria prevention in south Ethiopia</td>
<td>Lindtjørn, Bernt</td>
<td>Deressa, Wakgari/Loha, Eskindir</td>
</tr>
<tr>
<td>Balkuddembe, Michael</td>
<td>LaD Tracker: A Smart Way to Escape the Illusion of Partography in Labour and Delivery</td>
<td>Tylleskår, Torkild</td>
<td>Wakholi, Peter</td>
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<tr>
<td>Binyaruka, Peter John</td>
<td>Effect of Pay-For-Performance Scheme on Continuum of Care and Equity in Tanzania</td>
<td>Torsvik, Gaute</td>
<td>Robberstad, B./Borghi, J.</td>
</tr>
<tr>
<td>Blume, Jorn</td>
<td>Challenges in daily infant peri-exposure prophaxis (PEP) to HIV-exposed uninfected infants</td>
<td>Tylleskår, Torkild</td>
<td>Wang, Siri</td>
</tr>
<tr>
<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>Froen, Frederik</td>
<td>Blom-Bakke, Kjersti</td>
</tr>
<tr>
<td>Chinkhumba, Jobiba</td>
<td>Cost-effectiveness of performance based financing for promoting mother to child health in Malawi</td>
<td>Robberstad, Bjarne</td>
<td>de Allegri, Manuela</td>
</tr>
<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/ Mkandawire, Nyengo</td>
</tr>
<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>
</tr>
<tr>
<td>Dullie, Luckson</td>
<td>Contribution of family medicine to improving health systems in Africa</td>
<td>Qøsdal, Sturla</td>
<td>Meland, E./Mukherjee, J./Mildestvedt, T.</td>
</tr>
<tr>
<td>Dhintra, 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/Sazawal, Sunil</td>
</tr>
</tbody>
</table>

**GLOBAL CHALLENGES**

Nhamo, Ancila  
"Characterizing hunter-gatherer rock art: An analysis of spatial variation of motifs in the prehistoric rock art of Zimbabwe". Defence: January 2017

Archaeology unit, department of History, University of Zimbabwe.

Supervisor: T. Sætersdal

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Aakre, Inger  
"Excessive iodine status among refugee women and children from Western Sahara. – Possible impact on thyroid function and developmental status". Defence: 15 December, 2017

Inger Aakre is Norwegian. Her academic background is in nutrition. Her PhD involves both the University College of Oslo-Akershus (HiOA), as well as CIH/UiB.

Supervisor: T. Strand

Kibira, Simon Peter Sebina  
"Male circumcision, sexual risk behavior and HIV infection in Uganda". Defence: 19 December, 2017

Simon Peter Sebina Kibira was born in Uganda. He is a lecturer at Makerere University in Uganda, where he completed his undergraduate studies.

Supervisor: I. F. Sandøy

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<table>
<thead>
<tr>
<th>NAME</th>
<th>PROJECT TITLE</th>
<th>SUPERVISOR</th>
<th>CO-SUPERVISOR(S)</th>
</tr>
</thead>
<tbody>
<tr>
<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>Blystad, Astrid</td>
<td>Moland, Karen Marie/ Haukanes, Haldis</td>
</tr>
<tr>
<td>Hailu, Alemayehu</td>
<td>Economic evaluation of malaria prevention intervention: combining indoor residual spraying and long-lasting insecticidal nets; cluster randomized controlled trial in Ethiopia</td>
<td>Robberstad, Bjarnie</td>
<td>Lindtjøren, Bernt</td>
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<tr>
<td>Haugen, Johanne</td>
<td>Influenza, Respiratory infections, Immunity and Zinc</td>
<td>Strand, Tor</td>
<td>Dudman, Susanne/ Mathisen, Maria</td>
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<tr>
<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/Wiker, Harald</td>
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<tr>
<td>Hussain, Hamidah Farid</td>
<td>The effectiveness and cost-effectiveness of tuberculosis care through a public-private partnership in Pakistan</td>
<td>Robberstad, Bjarnie</td>
<td>Tylleskär, Thorkild</td>
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<tr>
<td>Høök, Susanna Myrnerets</td>
<td>M-health and new ways to support performance and decision-making during neonatal resuscitation</td>
<td>Tylleskår, Torkild</td>
<td>Alfven, Tobias</td>
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<tr>
<td>Imseeh, Sawsan</td>
<td>Automated electronic feedback to healthcare providers within individual case-based eRegisters for maternal and child health in Palestine: A cluster randomized controlled trial.</td>
<td>Føen, Frederik</td>
<td>Hamdan, Motasem</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>
<td>Sviland, Lisbet</td>
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<tr>
<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>Sandey, Ingvild</td>
<td>Fylkesnes, Knut</td>
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<td>Klungsøyr, Jørn Ivar</td>
<td>OMECT (Open Mobile Electronic Clinical Trials), an interdisciplinary project to improve quality of health research in low-resource settings</td>
<td>Tylleskår, Thorkild</td>
<td>Chen Weiqin</td>
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<tr>
<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, Bjarnie</td>
<td>Engebretsen, Ingunn</td>
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<tr>
<td>Langat, Agnes</td>
<td>The loss of HIV exposed infants in care and its contribution to continued HIV transmission in Kenya.</td>
<td>Tylleskår, Thorkild</td>
<td>John-Stewart, Grace</td>
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<tr>
<td>Lungowe, Sitali</td>
<td>Malaria species distribution, diagnosis and falciparum artemisin resistance in Southern Zambia</td>
<td>Lindtjøren, Bernt</td>
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<tr>
<td>Mangu, Chacha</td>
<td>Implementation of a new laboratory-based test to improve the diagnosis of extrapulmonary tuberculosis in Tanzania</td>
<td>Mustafa, Themina</td>
<td>Sviland, Lisbeth/Mfinanga, Sayoki</td>
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<tr>
<td>Mugisha, Alice</td>
<td>Adoption and Development Methodologies for Mobile Health Continuum Care Solutions</td>
<td>Tylleskår, Torkild</td>
<td>Sæba, Johan Ivar</td>
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<tr>
<td>Muhumiza, Julius</td>
<td>The epidemiology and diagnosis of mycobacterial disease in Tanzania</td>
<td>Hinderaker, Sven Gudmund</td>
<td>Mfinanga, Godfrey Sayoki</td>
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<tr>
<td>Mukunya, David</td>
<td>Newborn care practices in Lira district, Northern Uganda: Prevalence, predictors, promoters and associated Morbidity</td>
<td>Tylleskår, Thorkild</td>
<td>Turnwine, James/Moland, Karen Marie</td>
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<td>Mulwafu, Wakisa</td>
<td>Integration of ear and hearing care into primary health care through training of Primary Health Care Workers</td>
<td>Viste, Ausgaut</td>
<td>Golpen, Frederik/ Cooper, Hannah</td>
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<tr>
<td>Mwegi, Thomas Sang</td>
<td>Evaluation of Laboratory Workflow Process of a National Referral Hospital and Application of Relevant Health Informatics Solutions</td>
<td>Were, Martin (Moi University)</td>
<td>Tylleskår, Thorkild</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</td>
<td>Sandey, 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</td>
<td>Cose, Stephen/Nankabinwa, Victoria</td>
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<tr>
<td>Namugwa, Olive</td>
<td>Severe illness among infants in Uganda</td>
<td>Nankabinwa, Victoria</td>
<td>Sommerfelt, Halvor</td>
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<tr>
<td>Ndolumingu, Faustin Kitele</td>
<td>Mental health and HIV among children in the Democratic Republic of Congo</td>
<td>Kashala Abotnes, Espérance</td>
<td>Tylleskår, Thorkild/ Mananga Lelo</td>
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<tr>
<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</td>
<td>Gjertsen, Jan Erik/Hallan, Geir/ McNDwire, Nyengo</td>
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<tr>
<td>NAME</td>
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<td>CO-SUPERVISOR(S)</td>
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<tr>
<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</td>
<td>Norheim, Ole Fritjof</td>
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<td>Nkosi-Gondwe, Thandise</td>
<td>Severe anemia in Malawian children</td>
<td>Blomberg, Bjørn</td>
<td>Pehr, Kamija</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.</td>
<td>Bråvold, 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</td>
<td>Blennow, M/Ersdal, H/Alvén, T</td>
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<tr>
<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</td>
<td>Fjaer, Jahn Frederik/ Rahman, Anisur</td>
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<tr>
<td>Pérez Barronuevo, Antonio</td>
<td>The role of oral health and microbiome in respiratory health. A project based on the RHINESSA study</td>
<td>Svanes, Cecilie</td>
<td>Bertelsen, Rand/ Åstrøm, Anne N.</td>
</tr>
<tr>
<td>Rito, 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</td>
<td>Hill, Jenny</td>
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<tr>
<td>Rongsen-Chandola, Temsunaro</td>
<td>Predictors of poor immune response to Rotavirus Vaccine in Infants</td>
<td>Strand, Tor A</td>
<td>Bhandari, Nita</td>
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<tr>
<td>Roro, Meselech</td>
<td>Malaria in pregnancy: a community based cohort</td>
<td>Lindtjørn, Bernt</td>
<td>Deressa, Wakgari</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</td>
<td>Mollés, Jean-Pierre/ Tuaillon, Edouard</td>
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<tr>
<td>Shankia, Tarekegn Solomon</td>
<td>Malaria Epidemiology and Prevention in Southern Ethiopia</td>
<td>Lindtjørn, Bernt</td>
<td>Shumbullo, Eskindir Loha/ Amente Wikiri</td>
</tr>
<tr>
<td>Shrestha, Sanjaya</td>
<td>Astro virus and Non Polio Enterovirus carriage and association with diarrhea in a long term cohort study in children from a large community in Nepal</td>
<td>Strand, Tor</td>
<td>Vainio, K/Andreasen, Å/ Dudman, S</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</td>
<td>Bhan, Maharaj Kishan/ Bhandari, Nita/ Bahl, Rajiv</td>
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<tr>
<td>Some, Ngaonlé Eric</td>
<td>Breastfeeding patterns and mothers' health in HIV context in Sub-Saharan Africa</td>
<td>Tylleskår, Torkild</td>
<td>Ingibretsen, Ingunn</td>
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<tr>
<td>Tahseen, Sabira</td>
<td>Use of a robust immunochemistry based test in routine clinical laboratory practice for improving diagnosis of extra-pulmonary tuberculosis: experience from Pakistan.</td>
<td>Mustafa, Tehmina</td>
<td>Sviland, Lisbet/ Saltar, Nauman</td>
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<tr>
<td>Tian, Appolinaire</td>
<td>Assessing the effectiveness of innovative approaches to support the prevention of mother to child transmission of HIV-1 in resource-limited settings: the case of Leshoto</td>
<td>Tylleskår, Torkild</td>
<td>Guay, Laura</td>
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<td>Tongun, Justin Bruno</td>
<td>Perinatal Mortality Juba Teaching Hospital</td>
<td>Tylleskår, Torkild</td>
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<td>Tumuhameye, Josephine</td>
<td>Etiology of umbilical infection, severe bacterial illness, antibiotic resistance and associated risk factors in Newborns in Lira district, Northern Uganda</td>
<td>Nankibirwa, Victoria (Makerere University)</td>
<td>Sommerfelt, Halvor/ Bwanga, Freddie/ Tumwine, James</td>
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<tr>
<td>Varela, Carlos</td>
<td>Surgical burden and resource evaluation in Malawi</td>
<td>Viste, Asgaut</td>
<td>Mikandawire, Nyengo/ Groen, Reinnou/Young, Sven</td>
</tr>
<tr>
<td>Venkateswaran, Mahima</td>
<td>A study og interactive checklist with clinical decision support within individual case-based eRegistries for maternal and child health</td>
<td>Frøen, Frederik</td>
<td>Norheim, Ole Fritjof</td>
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<tr>
<td>Waatevik, Marie Johanne</td>
<td>Physical activity and disease prognosis in COPD patients</td>
<td>Johannessen, Ane</td>
<td>Eagan, Tomas/Real, Francisco/ Frisk, Bente</td>
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<tr>
<td>Waruru, Anthony</td>
<td>Geo-spatial relationships to HIV prevention and treatment: coverage, trends and impact in Kenya</td>
<td>Tylleskår, Torkild</td>
<td>Thomas Achi</td>
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<tr>
<td>Woldesemayat, Endriks Markos</td>
<td>Active case finding of TB in southern Ethiopia: use of TB suspect registry and effect of indoor air pollution in the incidence of TB</td>
<td>Lindtjørn, Bernt</td>
<td>Daniel Datiko</td>
</tr>
<tr>
<td>Ødegård, Christine</td>
<td>Medication free treatment in psychosis: The meaning of choice for people with psychosis – A qualitative exploration</td>
<td>Engebretsen, Ingunn</td>
<td>Veseth, Marius/Stige Brynjulf</td>
</tr>
</tbody>
</table>
# JOINT DEGREE WITH HAWASSA UNIVERSITY

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Authors</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 Loha, Eskindir</td>
</tr>
<tr>
<td>Kabalo, Bereket</td>
<td>Seasonal variation in food insecurity and undernutrition in rural Wolaita in Southwest Ethiopia</td>
<td>Lindtjørn, Bernt Johansson, Kjell/Loha, Eskindir</td>
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<tr>
<td>Orsango, Alemselem</td>
<td>Preventing iron deficiency anemia: Evaluation of amaranth grain supplementation to 24.0–59.9 month old children in southern Ethiopia, a randomized controlled trial</td>
<td>Lindtjørn, Bernt/ Engebretsen, Ingunn 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 Johansson, Kjell/Loha, Eskindir</td>
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<tr>
<td>Alako, Samrawit</td>
<td>Common childhood illness and health service utilization in Wonago district, south Ethiopia. A community based cohort study.</td>
<td>Lindtjørn, Bernt Johansson, Kjell Arne/ Astatike, Ayalew</td>
</tr>
<tr>
<td>Amare, Hiwot</td>
<td>Assessment of school health problems in Gedeo Zone, Southern Ethiopia.</td>
<td>Lindtjørn, Bernt Abegaz, Teferi</td>
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<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, south Ethiopia</td>
<td>Hinderaker, Sven Gudmund Emmelin, Maria/ Tefera, Ayelew Astakie</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
Hinderaker, Sven Gudmund  Professor (80%)
Lindtjørn, Bernt  Professor
Moen, Bente Elisabeth  Professor
Moland, Karen Marie  Professor
Mustafa, Tehmina  Professor (50%)
Norheim, Ole Frithjof  Professor (IGS employed)
Robberstad, Bjarne  Professor
Sommerfelt, Halvor  Professor (50%)
Svanes, Cecilie  Professor
Tylleskár, Thorkild  Professor
Sam, David Lackland  Professor (Psychology)

TEMPORARILY EMPLOYED:
Abotnes, Espérance Kashala  Post doctor RCN
Basnet, Sudha  Post doctor (50%)
Blume, Jörn  PhD candidate UiB
Fadnes, Lars Tore  Post doctor (IKO employed)
Frøen, Jahn Fredrik  Professor II (20%)
Haaland, Marte  From admin to PhD
Hatloy, Anne  Associate professor (40%)
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
Mirkuzie, Alemnesh  Post doctor (until March 2017)
Mori, Amani Thomas  Post doctor RCN
Musonda, Patrick  
Project leader

Nankabirwa, Victoria  
Post doctor RCN

Pejovic, Nicolas  
PhD candidate RCN

Perez Barrionuevo, Antonio Manuell  
PhD candidate UiB

Sandøy, Ingvild Fossgard  
Post doctor UiB (50%)

Schwinger, Catherine  
PhD candidate UiB

Steinsland, Hans  
Researcher

Svanemyr, Joar  
Post doctor UiB (75%)

Strand, Tor A.  
Adjunct professor (20%)

Van Den Bergh Graziella  
Associate professor (20%)

Visweswariah, Sandya S  
Professor (10%)

OTHER

Fylkesnes, Knut Martin  
Professor emeritus

Kvåle, Gunnar  
Professor emeritus

Nilsen, Rune  
Professor emeritus

Bjorvatn, Bjarne  
Professor emeritus

Strategy Day at Mount Fløyen. Photo: Elinor Barté
4.2 ASSOCIATED SCIENTIFIC PERSONNEL

Kahtan Al-Azawy, HUS
Kjersti Alsaker, HVL
Per Bakke, Dean MED
Stefi Barna, UEA, NORWICH
Valborg Baste, UNI Research
Randi J Bertelsen, K2, UiB
Bjarne Bjorvatn
Gunnar Bjune
Magne Bråtveit, IGS
Asgeir Bårdseth, IKO
Karin Lødrup Carlsen, UiO
Daniela Costea, K1, UiB
Jutta Dierkes, K1, UiB
Anne Ma Dyrhol-Riise, HUS
Maria Emmelin, Lund University
Ferda Gülcan, 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
Sigrun Henjum, HIOA
Bjørn Hofmann, UiO
Bjørg Eli Hollund, YMA, HUS
Lone Holst, IGS
Mari Hysing, Uni Research
Tane Holm Höisæter, DigUiB
Frode Ims, DigUiB
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, Professor Emerita, Psychology, UiB
Reidar Lie, Faculty of Humanitie, UiB
Rolv Terje Lie, IGS
Ola Lind, HUS
Frode Lindemark, HUS
Maria Mathisen, UNN
Eivind Meland, IGS
Ingrid Miljeteig, IGS
Ottar Mæstad, CMI
Hans Kristian Mardal, Helse Møre og Romsdal
Klaus Melf, Uni Research
Thera Mjåland
Kamal Mustafa, IKO
Ole Jacob Møllerløkken, IGS
Catherine Namulindwa, Malta
Elwalid Fadul Nasir, IKO
Øystein Evjen Olsen, SUS
Ernst Omenaaas, HUS
Hans Overgaard, NMBU
Odd Pettersen, SINTEF
Pål Puntervoll, Uni Research
Francisco Gomez Real, HUS
Ole Bjørn Rekdal, HVL
Trond Riise, IGS
Kristin Rygg, NHH
Guri Rørtveit, IGS
Bjarte Sanne, Førde BUP
Kathrine Skarstein, K1, UiB
Rolf Skjærven, IGS
Steinar Skrede, HUS
Marion Solheim, MED
Arne Strand, CMI
Johanne Sundby, UiO
Stefan Sütterliien, 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
Magnus Vollset, AHKR
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 Åsjo, UiB
Audun Aase, FHI
Henriette Sinding Aasen, JUS
Anne Nordrehaug Åstrøm, IKO
4.3 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 (from August 2017)
Bartle, Elinor  Communication Services (60%)
Forshaw, Linda Karin  Academic Affairs, Master
Haaland, Marte Emilie Sandvik  Project administration CISMAC (until April 2017)
Hope, Ingvild  Administrative advisor
Koldal, Gunhild  Administration
Lavik, Borgny Kvalnes  Academic Affairs, Master (sick leave)
Straume, Ane  Project administration CISMAC
Vikøren, Solfrid  Project Economist
Ipek, Filz  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.

UiB Global became a part of CIH in 2017. They have their own annual report, but are a part of the CIH administration, and are therefore mentioned here:

Sætersdal, Tore  Scientific co-ordinator
Abdelrahman, Howaida F.  Senior consultant
Rø, Tord  Advisor, communication
Legreid, Ragnhild Osnes  Advisor, communication
Tesdal, Inge  Higher executive officer

In addition, the following people have been a part of UiB Global this year:

Maria Sollohub, Sylvia Duerr, Doreen Ryland, Kjersti Gravelsæter Berg, Kristin Svartveit, Kristin Holst Paulsen, Wedgdan Hasha and Solomon Kebede Gebremeskel.
4.4 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 2017, with two different sets of Board members:

**CIH BOARD MEMBERS, JANUARY–JUNE 2017**
Nina Langeland (Dean), Per Bakke (K2), Nils Erik Gilhus (K1), Anne Nordrehaug Åstrøm (IKO), Guri Rørtveit (IGS) and Rolf Reed (Biomedicine, Board Leader).

**CIH BOARD MEMBERS FROM JULY 2017**
Per Bakke (Dean), Marit Bakke (Vice Dean for research), Anne Nordrehaug Åstrøm (IKO, Board Leader), Kjell Morten Myhr (K1), Roland Jonsson (kst-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.

*Rehabilitation of Overlege Danielsen House. Photo: Bente E. Moen*
5. NETWORKING
5.1 GLOBAL CHALLENGES

Global Challenges is a new priority area, located at University of Bergen (UiB). UiB has three priority areas; one of these is “Global Challenges”. The area was officially launched 15 May 2017. It is hosted at the Centre for International Health (Medical Faculty, IGS). The Deans of all seven UiB Faculties are members of the Global Challenges Steering Group and representatives from all Faculties have formed a strategic working group to promote inter-Faculty activities in this area. CIH is responsible for administrating Global Challenges, and a unit of administrative personnel is now located at CIH, to work with the strategy.

Global challenges are complex and interdisciplinary by nature. The university’s research and education activities responding to these challenges extend across different academic disciplines. During the period 2016–2022, interdisciplinary research in global challenges at UiB will focus on three primary themes: Migration, health and inequality.

The Global Challenges has their own Annual report 2017, and their own webpages: [uib.no/en/globalchallenges](uib.no/en/globalchallenges)
Eleven years of Forum activities have passed. All these years, CIH has been the host of the Forum secretariat. Together, we have achieved great results, bringing researchers and students in global health in Norway together. This year, Forum celebrated the 10-year anniversary. The celebration took place in Oslo 12–13 January 2017, hosted by the University of Oslo, with an interesting seminar on Migration and with a jubilation dinner in the evening.

Also, Forum has contributed substantially to the establishment of the Norwegian Research School of Global Health (NRSGH) as well as for the network Global Health Norway. NRSGH started in 2016, and the activity has been increasing in 2017. Congratulations to NTNU who runs the secretariat for NRSGH.

There will probably be changes in the Forum work in the future, as Forum must adjust formally to these new bodies of Global Health. We hope to find a good organization as this will be very beneficial for global health research in Norway. Forum wants to make a difference in the world, and it is great to work together with colleagues all over Norway.

THE FORUM BOARD 2017
Bente E. Moen, University of Bergen
Stine Hellum Braathen, SINTEF
Elisabeth Darj, NTNU
Anne Hatløy, FAFO
Frode Forland, Norwegian Institute of Public Health
Johanne Sundby, University of Oslo

Sheri Lee Bastien, Norwegian University of Life Sciences
Erik Anda, Arctic University, Tromsø
Miriam Christ, Norwegian Medical Students’ Association

THE FORUM SECRETARIAT 2017
Ingvild Hope
Gunhild Koldal
Elinor Bartle
5.3 GLOBAL HEALTH NORWAY

Global Health Norway (GHN) is a newly established national arena for global health research, education and capacity strengthening. It is a network involving all the major institutions in the educational, hospital and research institute sectors in Norway, which are involved in global health. The Secretariat is currently based at Global Challenges / CIH, UiB. GHN officially opened 6 December, 2017.

THE AIMS OF THE NETWORK INCLUDE

Facilitating high quality in global health research and education in Norway
Informing the public about Norwegian efforts and activities in global health
Maintaining an overview of global health projects and funding opportunities
Promoting interregional and intersectoral collaboration on research proposals
Promoting collaboration between the hospital sector, the educational sector, the National Research Council, NGOs, the private sector and Norad

THE BOARD OF GHN 2017

Western Norway Regional Health Services, Senior Adviser Pål Iden
Northern Norway Regional Health Services, Senior Adviser Geir Tollåli
Mid-Norway Regional Health Services, Senior Adviser Henrik A. Sandbu
Southeastern Norway Regional Health Services, Research Director Øystein Krüger
University of Bergen (UiB), Dean Nina Langeland
University of Oslo (UiO), Dean Frode Vartdal
University of Tromsø, Vice-Dean Sameline Grimsgaard
Norwegian University of Science and Technology (NTNU), Dean Björn Gustafsson
Norwegian Institute of Public Health, Bjørn Iversen

OBSERVERS

Research Council of Norway, Wenche Dageid (Substitute for Åse Marit Kristiansen)
Christian Michelsens Institutt (CMI), Administrative Director Ottar Maestad
Institute for Applied Research, Technology And Innovation (SINTEF), Research Director Randi Reinertsen
Norwegian Agency for Development Cooperation (NORAD), Senior Adviser Ingvar Theo Olsen
6. PUBLICATIONS 2017
Communicable diseases

Capileno, Yuely A.; Bergh, Raphael Van Den Bergh; Donchulk, Dmytro; Hinderaker, Sven Gudmund; Hamid, Saeed; Rosa, Auat; Khalid, Gul Ghuttai; Fatima, Razia; Yaqoob, Ashifa; Overhoop, Catherine Van. Management of chronic Hepatitis C at a primary health clinic in the high-burden context of Karachi, Pakistan. *PLoS ONE* 2017; Volum 12.(4)

Ahmed, Tahmeed; Bhutta, Zulfiqar; Caulfield, Laura; Guerrant, Richard; Houpt, Eric; Kang, Gagandeep; Kosek, Margaret N.; Lee, Gwyneth; Lima, Aldo; McCormick, Benjamin J.J.; Platts-Mills, James; Seidman, Jessica; Svendsen, Erling; Strand, Tor A. Causal Pathways from Enteropathogens to Environmental Enteropathy: Findings from the MAL-ED Birth Cohort Study. *EBioMedicine* 2017; Volum 18. s.109-117

Global health priorities, Ethics


Barber, Ryan M; Fullman, Nancy; Sorensen, Reed J D; Bollyky, Thomas; McKee, Martin; Nolte, Ellen; Abajobir, Amanuel Alemu; Abate, Kalkidan Hassen; Abbafati, Cristiana; Abbas, Kaja M; Abd-Allah, Foad; Abdulle, Abdishakur M; Abdurahman, Abdushahi; Abera, Semaw Ferede; Abraham, Biju; Abreha, Girmatsion Fisseha; Adane, Kelemework; Adelekan, Ademola Lukman; Adetifa, Ifedayo Morayo O; Afsin, Ashkan; Agarwal, Arnav; Agarwal, Sanjay Kumar; Agarwal, Sanil Kumar; Agarwal, Anurag; Kiadaliri, Aliasghar Ahmad; Ahmadi, Alireza; Vollset, Stein Emil; Ellingsen, Christian Lycke; Savic, Milojie; Skirbekk, Vegard; Hailu, Alemayehu; Norheim, Ole Frithjof; Htet, Aung Soe; Neupane, Sudan Prasad; Weiderpass, Elisabete. Healthcare Access and Quality Index based on mortality from causes amenable to personal health care in 195 countries and territories, 1990-2015: a novel analysis from the Global Burden of Disease Study 2015. *The Lancet*. 2017; Volum 390. (10091) s.231-266

Hay, Simon I; Abajobir, Amanuel Alemu; Abate, Kalkidan Hassen; Abbafati, Cristiana; Abbas, Kaja M; Abd-Allah, Foad; Abdulle, Abdishakur M; Abebo, Teshome Abuka; Abera, Semaw Ferede; Aboyans, Victor; Abu-Raddad, Laith J; Ackerman, Ilana N; Aryal, Krishna Kumar; Hailu, Alemayehu; Htet, Aung Soe; Knudsen, Ann Kristin; Kisa, Adnan; Norheim, Ole Frithjof; Skirbekk, Vegard Fykse; Vollset, Stein Emil; Weiderpass, Elisabete; Stovner, Lars Jacob; Adedjei, Isaac Akinkunjimi; Adetokunbo, Olatunji; Afsin, Ashkan; Aggarwal, Rakesh; Agrawal, Sutapa; Agrawal, Anurag; Kiadaliri, Aliasghar Ahmad; Ahmed, Muktar
Beshir; Aichour, Amani Nidhal; Aichour, Ibtihel; Aichour, Miloud Taki Eddine; Aiyar, Sneha; Akinyemiju, Tomi F.; Akseer, Nadia; Al Lami, Faris Hasan; Alahdab, Fares; Al-Aly, Ziyad; Alam, Khursheed; Alam, Noore; Alam, Tahiya; Alasfoor, Deena; Alene, Kefalyew Addis; Ali, Raghib; Alizadeh-Navaei, Reza; Alkaabi, Juma M.; Alkerwi, Ala’a; Allen, François; Allebeck, Peter; Allen, Christine; Al-Maskari, Fatma; Almazroa, Mohammad Abdulaziz. Global, regional, and national disability-adjusted life-years (DALYS) for 333 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016. *The Lancet* 2017; Volum 390.(10100) s.1260-1344

Hernández, Alison; Ruano, Ana Lorena; Marchal, Bruno; San Sebastián, Miguel; Flores, Walter. Engaging with complexity to improve the health of indigenous people: a call for the use of systems thinking to tackle health inequity. *International Journal for Equity in Health* 2017; Volum 16:26. s.1-6

Jull, Janet E.G; Whitehead, Margaret; Petticrew, Mark; Kristjansson, Elizabeth; Gough, David; Petkovic, Jennifer; Volmink, Jimmy; Weijer, Charles; Taljaard, Monica; Edwards, Sarah Jane L.; Mbuagbaw, Lawrence; Cookson, Richard; McGowan, Jessie L; Liddiatt, Anne; Boyer, Yvonne; Cuervo, Luis Gabriel; Armstrong, Rebecca; White, Howard; Yoganathan, Manosila; Pantoja, Tomás; Shea, Beverley J.; Pottie, Kevin; Norheim, Ole Frithjof; Baird, Sarah; Robberstad, Bjarne; Sommerfelt, Halvor; Asada, Yukiko; Wells, George A; Tugwell, Peter; Welch, Vivian. When is a randomised controlled trial health equity relevant? Development and validation of a conceptual framework. *BMJ Open* 2017; Volum 7.(9)

Naghavi, Mohsen; Abajobir, Amanuel Alemu; Abbafati, Cristiana; Abbas, Kaja M.; Abd-Allah, Foad; Abera, Semaw Ferede; Aboyans, Victor; Adetokunboh, Olatunji; Afnan, Johan; Afshin, Ashkan; Agraval, Anurag; Kadiarli, Aliashgar Ahmad; Ahmed, Alirezza; Ahmed, Muktar Beshir; Aichour, Ibtihel; Aichour, Miloud Taki Eddine; Aiyar, Sneha; Al-Eyadhy, Ayman; Alahdab, Fares; Al-Aly, Ziyad; Alam, Khursheed; Alam, Noore; Alam, Tahiya; Alene, Kefalyew Addis; Ali, Syed Danish; Allen, Christine; Arora, Megha; Aryal, Krishna Kumar; Ellingsen, Christian Lycke; Hailu, Alemayehu; Knudsen, Ann Kristin; Vollset, Stein Emil; Weiderpass, Elisabete. Global, regional, and national age-sex specific mortality for 264 causes of death, 1980-2016: a systematic analysis for the Global Burden of Disease Study 2016. *The Lancet* 2017; Volum 390.(10100) s.1151-1210

Onarheim, Kristine Husay; Sisay, Mitike Molla; Gizaw, Mulukene; Moland, Karen Marie; Miljeteig, Ingrid. What if the baby doesn't survive? Health-care decision making for ill newborns in Ethiopia. *Social Science and Medicine* 2017; Volum 195. s.123-130

Basnet, Sudha; Bassat, Quique; Basualdo, Wilma; Bigogo, Godfrey; Bont, Louis; Breiman, Robert F.; Brooks, W. Abdullah; Broor, Shoba; Bruce, Nigel G.; Bruden, Dana; Buchy, Philippe; Campbell, Stuart; Carosone-Link, Phyllis; Chadha, Mandeep; Chippeta, James; Chou, Moniradin; Clara, Wilfrido; Cohen, Cheryl; de Cuellar, Elizabeth; Dang, Duc Anh; Dash-yandag; Budragchaagiin; Deloria-Knoll, Maria; Dherani, Mukesh; Eap, Tekchheng; Ebruke, Bernard E.; Echavarria, Marcela; de Freitas Lázaro, Carla Cecilia; Fasce, Rodrigo A.; Felkin, Daniel R.; Feng, Luzhao; Gentile, Angela; Gordon, Aubree; Gowtama, Doli; Goyet, Sophie; Groome, Michelle J.; Halasa, Natasha; Hirve, Siddhirani; Homaira, Nusrat; Howie, Stephen R.C.; Jara, Jorge; Jroundi, Imane; Karsatsamita, Cissy B.; Khuri-Bulos, Najwa; Kotloff, Karen L.; Krishnan, Anand; Libster, Romina; Lopéz, Olga Millán; Lucero, Marilla G.; Luchin, Florencia; Lupisan, Socorro P.; Marcone, Debra; McCracken, John P.; Mejia, Mario; Molyneux, Jennifer C.; Montgomery, Joel M.; Moore, David P.; Moraleda, Cinta; Moyes, Jocelyn; Munywoki, Patrick K.; Mutyara, Kuswandewi; Nicholls, Mark P.; Nokes, Dames; Nymadawa, Pagabjabay; Nova, Costa Olivier, Maria Tereza; Oshitani, Hiroshi; Pandey, Nitin; Paranhos-Baccalá, Gláucia; Phillips, Lia N.; Picot, Valentina Sanchez; Rahman, Mustafizur; Rakoto-Andrianarivelo, Mafa; Rasmussen, Zeba A.; Rash, Barbara A.; Robinson, Annick; Romeo, Candice; Russomando, Graciela; Saltini, Vahid; Sawatwong, Pongpun; Scheltema, Nienke; Schweiger, Brunhilde; Scott, J. Anthony G.; Seidenberg, Phil; Shen, Kunling; Singleton, Rosalyn; Sotomayor, Viviana; Strand, Tor Å.; Sutanto, Agustinus; Sylla, Mariam; Tapia, Milagritos D.; Thamthitiwat, Somsak; Thomson, Elizabeth D.; Tokarz, Rafal; Turner, Claudia; Venter, Mariette; Waicharoen, Sunthareeya; Wang, Jianwei; Watthanaworawit, Wanitda; Yoshida, Lay-Myint; Yu, Hongjie; Zar, Heather J.; Campbell, Harry; Nair, Harish. Global, regional, and national disease burden estimates of acute lower respiratory infections due to respiratory syncytial virus in young children in 2015: a systematic review and modelling study. *The Lancet* 2017; Volum 390.(10098) s.946-958
Vos, Theo; Abajobir, Amanuel Alemu; Abbafati, Cristiana; Abbas, Kaja M.; Abate, Kalkidan Hassen; Abd-Allah, Foad; Abdulle, Abdishakur M.; Abebo, Teshome Abuka; Abera, Semaw Ferede; Aboyans, Victor; Abu-Raddad, Laith J.; Ackerman, Ilana N.; Adamu, Abdu Abdullahi; Adetokunboh, Olatunji; Afarideh, Mohsen; Afshin, Ashkan; Agarwal, Sanjay Kumar; Aggarwal, Rakesh; Agrawal, Anurag; Agrawal, Sutapa; Añalalí, AliAsghar Ahmad; Ahmadi, Hamid; Ahmed, Muktar Beshir; Aichour, Amani Nidhal; Aichour, Ibtihel; Aichour, Miloud Taki Eddine; Aiyar, Sneha; Akinyemi, Rufus Olusola; Akseer, Nadia; Al Lami, Faris Hasan; Alahdab, Fares; Al-Aly, Ziyad; Alam, Khurshid; Alam, Noore; Alami, Tahiya; Alene, Kefyalew Addis; Ali, Raghib; Alizadeh-Navaei, Reza; Alkerwi, Ala'a; Alla, Francois; Allebeck, Peter; Allen, Christine; Al-Maskari, Fatma; Al-Raddadi, Rajaa; Alsharif, Ubai; Alsowaidi, Shirina; Altirkawi, Khalid A.; Amare, Azmeraw T.; Amin, Erfan; Amin, Krishna Kumar; Htet, Aung Soe; Kisa, Adnan; Knudsen, Ann Kristin; Tollânes, Mette Christoffersen; Skirbekk, Vegard Fyksæ; Steiner, Timothy J.; Stovner, Lars Jacob; Vollset, Stein Emil; Weiderpass, Elisabeteb; Hailu, Alemayehu; Murray, Christopher JL. Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195 countries, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016. The Lancet 2017; Volum 390.(10100) s.1211-1259

Welch, Vivian A; Norheim, Ole Frithjof; Jull, Janet E.G.; Cookson, Richard; Sommerfelt, Halvor; Tugwell, Peter. CONSORT-Equity 2017 extension and elaboration for better reporting of health equity in randomised trials. BMJ Global Health 2017; Volum 359.

Health economy

Binyaruka, Peter John; Borghi, Josepine. Improving quality of care through payment for performance: examining effects on the availability and stock-out of essential medical commodities in Tanzania. Tropical medicine & international health 2017; Volum 22.(1) s.92-102

Chinkhumba, Jobiba Joe Henderson; De Allegri, Manuela; Mazalale, Jacob; Brenner, Stephan; Mathanga, Don P.; Muula, Adamson S.; Robberstad, Bjarne. Household costs and time to seek care for pregnancy related complications: The role of results-based financing. PLoS ONE 2017; Volum 12.(9) Suppl. e0182326.

Mori, Amani Thomas; Kampata, Linda Milimo; Musonda, Patrick; Johansson, Kjell Arne; Robberstad, Bjarne; Sandøy, Ingvild Fossgard. Cost-benefit and extended cost-effectiveness analysis of a comprehensive adolescent pregnancy prevention program in Zambia: study protocol for a cluster randomized controlled trial. Trials 2017; Volum 18:604.(1) s.1-10

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Hangoma, Peter; Robberstad, Bjarne; Aakvik, Arild. Does Free Public Health Care Increase Utilization and Reduce Spending? Heterogeneity and Long-Term Effects. World Development 2017; Volum 101. s.334-350

Hangoma, Peter; Aakvik, Arild; Robberstad, Bjarne. Explaining changes in child health inequality in the run up to the 2015 millennium development goals (MDGs): The case of Zambia. PLoS ONE 2017; Volum 12:e0170995.(2) s.1-21

Hailu, Alemayehu; Lindtjorn, Bernt; Deressa, Wákgar; Ayana, Taye Gari; Loha, Eskindir; Robberstad, Bjarne. Economic burden of malaria and predictors of cost variability to rural households in southcentral Ethiopia. PLoS ONE 2017; Volum 12.(10) Suppl. e0185315.
**HIV**

Akilimali, Pierre; Musumari, Patou M; Kashala Abotnes, Esperance; Kayembe, Patrick Kalambayi; Lepira, Francois B; Mutombo, Paulin Beya; Tylleskär, Thorkild; Ali, Mapatano Mala. Disclosure of HIV status and its impact on the loss in the follow-up of HIV-infected patients on potent anti-retroviral therapy programs in a (post-) conflict setting: A retrospective cohort study from Goma, Democratic Republic of Congo. *PLoS ONE* 2017; Volum 12.(2)

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