CENTRE FOR INTERNATIONAL HEALTH

INFORMATION, ACTIVITIES AND ANNUAL REPORT 2014

UNIVERSITY OF BERGEN
On the cover: The map shows projects funded by The Research Council of Norway (red dots) and NORHED (green stars) in 2014.

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1. FROM THE CENTRE DIRECTOR

Centre for International Health (CIH) wants to make a difference in the world! We want to contribute to improved health among poor populations. We are sure that high quality education in health related topics is a key issue, and the staff at CIH is remarkably motivated for their work.

As in previous years, high activity in research has taken place at the centre, and several new projects have started. The research activity has been highly strengthened by the “Centre of Excellence” - Centre for Intervention Science in Maternal and Child Health - which is located at CIH. New funding from NORAD has given us the opportunity to start five new projects in The Norwegian Programme for Capacity Development in Higher Education and Research for Development (NORHED). The focus in these projects is more on education than research, and partner leadership is not always in Bergen. This gives new challenges for the staff. The job demands at the centre are very high, both for the scientific and administrative staff, but the coping ability is admirable. The staff expresses that “No problem is too difficult! Our students and partners will be helped!”

In general, the environment at CIH is filled with optimism and joy. However, some days this year were hard as we lost three valuable colleagues. Robert Byamugisha from Uganda died in April of injuries following a traffic accident. Professor Meera Chhagan from South Africa, who had been working with us for half a year, died in an accident in August. Professor Jan Van den Broeck died in November after a long period of illness. We will miss them deeply.

The housing situation improved in June. “The Palace” was constructed, an extra building outside Overlege Daniehens Hus (ODH), where CIH is located. We now have an office for all staff and PhD candidates (at least most of the time), and are very pleased – although we long for the promised improvement of ODH, which will bring CIH back together under the same roof.

VISION AT CENTRE FOR INTERNATIONAL HEALTH

We want our research and teaching in international health to contribute to improved health for the poor populations in the world.

We work hard to be visible in our new organisation, now being a part of Department of Global Public Health and Primary Care, and we want to underline our wish and ability to work multidisciplinary and within different faculties at the University of Bergen (UiB). We want to be a centre for everyone who works in the area of international health and related topics.

Welcome to CIH!

Bergen, June 2015

Bente E. Moen
Director, CIH

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2. ORGANISATION

Scientific Personnel at CIH

It can be difficult to tell who are working at CIH. There are many types of “work” and affiliations related to the centre. The list below shows the scientific personnel who are formally employed at the centre, with a few exceptions. When there are exceptions, this is explained in brackets.

**Permanently employed:**
- Blystad, Astrid  Professor (IGS employed)
- Fylkesnes, Knut Martin  Professor
- Hinderaker, Sven Gudmund  Professor
- Lindtjørn, Bernt  Professor
- Moen, Bente Elisabeth  Professor
- Moland, Karen Marie  Professor
- Mustafa, Tehmina  Professor (50 %)
- Nilsen, Rune  Professor
- Norheim, Ole Frithjof  Professor
- Robberstad, Bjarne  Professor
- Sommerfeld, Halvor  Professor
- Svanes, Cecilie  Professor
- Tylleskår, Thor Pål  Professor
- Van den Broeck, Jan  Professor
- UiB employed PhD-candidates: Basnet, Sudha  PhD-candidate
- Blume, Jørn  PhD-candidate
- Schwing, Catherine  PhD-candidate
- Heggenhougen, Harald Kristian  Professor emeritus
- Kvåle, Gunnar  Professor emeritus

**Temporarily employed:**
- Abotnes, Espérance Kashala  Post doctor
- Chandyo, Ram Krishna  Post doctor
- Engebretsen, Ingunn Marie S  Professor (IGS employed)
- Fadnes, Lars Tore  Post doctor
- Fløysand, Ram Krishna  Post doctor
- Gebebrt, Ingunn Marie S  Post doctor
- Gudmund, Lars Tore  Post doctor
- Haugen, Ram Krishna  Post doctor
- Rasmussen, Ram Krishna  Post doctor
- Sund, Ingvid Forsgård  Post doctor
- Strand, Tor A  Post doctor
- Adjunct professor (20%)
Advisory group at CIH

In 2014, the Centre Director has received advices from an advisory group. The group was selected in a co-operation between the Department Head and the Centre Director. The Centre Director wants to thank the members of this group for important and interesting discussions, always very inspiring. The members have been:

Jon Wigum Dahl, Director – Dept. of International Collaboration, Haukeland University Hospital
Guri Rørtveit, Professor, IGS
Rolv Terje Lie, Professor/Department Head, IGS
Ottar Mæstad, Director - Chr. Michelsens Institute
Gunn Mangerud, Department Head, Department of Earth Science, UiB
Ingvild Hope, Advisor, CIH
Thorkild Tylleskär, Professor, CIH

3. EDUCATION

Master in International Health

CIH has run three Master programmes this year:

- Master in International Health
- Master of Philosophy in Oral Sciences
- The European Master of Science Programme in International Health

The first two are 2-year programmes (120 ECTS credits), and the students take much of the teaching together. The aim of the programmes is competence-building in low income countries. The degrees will give students deeper knowledge and research training in important subjects within fields related to international health. They are customised for each student and aim to reflect areas of high priority in the student’s home region.

The various Master programmes offer a variety of research possibilities for student research projects. Each student is associated with a specific research group or group of scientists. Students may choose from the following areas: HIV/AIDS; Child Health and Nutrition; Maternal and Child Health; Tuberculosis; Global Health; Health Policy; Health Systems Research; Ethics; Health Economics; Culture; Occupational Health; Climate and Health; and Vaccines and Immunology.

Learn more here: www.uib.no/studyprogramme/MAMD-INTH

CIH offers a variety of courses in International Health, both core and elective training courses. The courses are for both PhD and master students. Course offerings may vary from semester to semester.

The following courses were offered at CIH in 2014:

Elective courses - spring 2014

- INTH323A Qualitative methods
- INTH323B Qualitative methods
- INTH329 The HIV pandemic
- INTH328A Global tuberculosis
- INTH325 Culture and psychopathology
- INTH356 Observational epidemiology

Course coordinator

Karen Marie Moland
Karen Marie Moland
Ingvild Fossgard Sandøy
Sven Gudmund Hinderaker
David Lackland Sam
Cecile Svanæs

SYKVIT302 Cultural theory & global perspectives
INTH321A Experimental epidemiology
INTH 314 Applied economic evaluation in health care
INTH 914 Applied economic evaluation in health care
INTH340 War, violence, peace and health

Courses - autumn 2014

HELSTA
INTH304 Major global health problems
INTH360 Global Nutrition
GLOBALHEALTH
INTH302 Epidemiology
INTH316 Health systems
INTH301 Basic course in research tools and theory
INTH330 Proposal development

Course coordinator

Øystein Ariansen Haaland
Thorkild Tylleskär
Halgeir Kismul
Sven Gudmund Hinderaker
Charles Karamagi
David L. Sam/Karen Marie Moland
Karen Marie Moland/Tehmina Mustafa
Karen Marie Moland/Tehmina Mustafa

TropEd

TropEd is an international network of member institutions for higher education in international/global health from Europe, Africa, Asia, Australia and Latin America. CIH has been a member of this network for many years, and this membership is important for the quality of courses we have. Many of our courses have an accreditation from TropEd. The network had two meetings in 2014, one in Umeå and one in Bergen. The meeting in Bergen had about 25 participants and was held 23-25th September, in a very rainy period. However, we were able to go both to the Lepra museum and to Fløyen with our guests, in addition to having long working days with TropEd issues.

Read more about TropEd here: www.troped.org/
A course in Global Health is given in the elective term for interested medical students, and students
with similar background. The students are given theoretical teaching and lectures for four weeks jointly
with master students in international health at CIH, covering major global diseases. In addition, for
two weeks they learn about priorities in health at the Department of Global Health and Primary Care,
and selected conditions are taught at Haukeland University hospital. After this theoretical introduction
they visit a health facility in a low-income country, either Christian Medical College Vellore in India,
Makerere in Kampala, Uganda, or Haydom Lutheran Hospital in Tanzania. They follow daily routines
at the hospitals and visit clinics in the vicinity to get an impression of health care in the areas. On return
to Bergen they present and defend their assignments in plenary sessions.

This course won the Faculty's education award in 2011, as well as the University education award

Operational research courses “SORT IT”

A number of courses in operational research called “Structured Operational Research Training initiative” (SORT IT) have been carried out in various parts of the world: Europe, Africa, Asia and the Pacific. The aim is to help health workers solve challenges by research, analysis and publication. The organisers are the International Union against Tuberculosis and Lung Disease and Medicins sans Frontieres in Luxembourg. In 2014 TDR of WHO also joined the activities. CIH and several other institutions support the initiative. Participants are health workers of various cadres from all over the world. They attend an initial course module with protocol writing including ethics considerations, followed by a course in data management and analysis. The participants then go home, get ethics permit and collect data: almost exclusively data in existing registers. When the data is entered and analysed the participants meet again for a new course module to draft the paper. The course is approved when the paper is submitted. Currently 18 courses have been completed with 212 persons completing and publishing 224 papers. Three PhD candidates from CIH have participated in the courses.

Professor Sven Gudmund Hinderaker at CIH has participated with teaching and supervision in SORT-IT courses in Paris, Luxembourg and Addis. During 2014 twelve papers were published with him as co-supervisor:

1. Barbara Kirunda with data collectors in Uganda.
2. Sven Young, project leader for a NORHED project in Malawi.
3. Master students and staff in the Grow Nut project, DR Congo.
4. The NORHED administration visits the Survival Pluss project in Uganda.
5. Knut Fylkesnes at a NOMA meeting in Zambia.
6. Chipepo Kankasa presenting study results at the CROI conference in Boston.

**“SORT IT” publications cont.**


**Research School at CIH**

The Centre for International Health Research School was reopened 20th of August 2014. The research school had been without activity for some time, but now a new plan was made. Weekly seminars were held in 2014 for the PhD candidates, and the first one had the presentation: “Structure of PhD thesis” by professor Bernt Lindtjørn. He was also the one to make the official opening, together with Bente E. Moen.

The research school is now organized by a scientific group:

Professors: Karen Marie Moland, Sven Gudmund Hinderaker, Bernt Lindtjørn, Bente E. Moen and Halvor Sommerfelt from CISMAC (observer).

Researchers: Esperance Kashala Abotnes, Victoria Nankabirwa and Ingunn Engebretsen

PhD student: Sudha Basnet.

This scientific group is responsible for the fulfillment of the aims of the CIH research school, the programme of PhD-seminars for each semester, including midway evaluations and master presentations, chairing the seminars, evaluation of / organisation of elective PhD courses and appointing new supervisors for the students if needed.
4. CANDIDATES IN COMPETENCE BUILDING PROGRAMMES

Doctoral Candidates

The PhD candidates are very important at CIH. They represent the future researchers in International Health, and many of them will go back to very important jobs in their home countries. We are proud of the group.

These doctoral candidates are registered formally as related to the centre. It has been difficult to gather all information about them, they are many, and as you will see, they have many different supervisors.

Name | Country | Main supervisor | Co-supervisors
---|---|---|---
Aakre, Inger | Norway | Henjum, S | Tylleskårt, T
Awot, Phyllis | Uganda | Lindtjern, B | Edelma, J/Lindtjern, B
Ayana, Taye Gari | Ethiopia | Ephrem, B | Lindtjern, B
Ayele, Abebe Animut | Ethiopia | Ephrem, B | Lindtjern, B
Balla, Valiso Yaya | Nigeria | Sanoy, IF | Kumlien, I
Banda, Richard | Norway | Sand, B | Lindtjern, B
Basnet, Sudha | Nepal | Norheim, OF | Lindtjern, B
Bech, Margrethe M. | Norway | Bekkemastad, T | Lindtjern, B
Birangi, Nancy | Uganda | Sand, B | Lindtjern, B
Blume, Jörn | Germany | Wang, S | Tylleskårt, T
Chinhuma, Jobiba | Tanzania | Robberstad, B | Mfinanga, GS
Dalen, Nina | Norway | Missel, E | Lindtjern, B
Dangiso, Mesay H. | Ethiopia | Lindtjern, B | Datiko, D
Defaye, Frehiwot B | Ethiopia | Lindtjern, B | Datiko, D
Fatima, Razia Kaniz | Pakistan | Lindtjern, B | Datiko, D
Gebreyesu, Seifu | Ethiopia | Lindtjern, B | Datiko, D
Hafile, Alemeayneh | Ethiopia | Lindtjern, B | Datiko, D
Hamu, Shallo Daba | Ethiopia | Lindtjern, B | Datiko, D
Haugen, Johanne | Norway | Strand, TA | Lindtjern, B
Hussain, Hamidat F | Pakistan | Linke, J | Lindtjern, B
Jørstad, Melissa D | Norway | Strand, TA | Lindtjern, B
Kilale, Andrew | Tanzania | Robberstad, B | Mfinanga, GS
Klungsøy, Jørn Ivar | Norway | Strand, TA | Lindtjern, B
Kobina, Hamidat F | Pakistan | Lindtjern, B | Datiko, D
Kooy, Amani Thomas | Tanzania | Robberstad, B | Mfinanga, GS
Mwangala, Sheila M. | Norway | Strand, TA | Lindtjern, B
Ngaile, Ifeoma | Nigeria | Lindtjern, B | Datiko, D
Nkony, Sela | Nigeria | Lindtjern, B | Datiko, D
Ngis, Leonard B. | Tanzania | Lindtjern, B | Datiko, D
Ngatu, Amare W | Tanzania | Lindtjern, B | Datiko, D
Onarheim, Kristine H | Norway | Strand, TA | Lindtjern, B
Ramokolo, Vundli | South Africa | Engebretsen, I | Lindtjern, B
Rongen-Chandola, T | Tanzania | Lindtjern, B | Datiko, D
Ruhago, George | Tanzania | Lindtjern, B | Datiko, D
Ruragwa, G. David | Rwanda | Lindtjern, B | Datiko, D
Schilinger, Catherine | Germany | Lindtjern, B | Datiko, D
Sentongo, Mbaingeni F | Tanzania | Lindtjern, B | Datiko, D
Shayo, Elizabeth H. | Tanzania | Lindtjern, B | Datiko, D
Shrestha, Jasmin | Nepal | Lindtjern, B | Datiko, D
Shrestha, Sanjaya | South Africa | Lindtjern, B | Datiko, D
Some, Nachonile Eric | South Africa | Lindtjern, B | Datiko, D
Taxt, Arne Michael | Norway | Strand, TA | Lindtjern, B
Tiam, Appolinaire | Cameroon | Lindtjern, B | Datiko, D
Ulesido, Fekadu M | Ethiopia | Lindtjern, B | Datiko, D
Varela, Carlos | Brazil | Lindtjern, B | Datiko, D
Vayga, Bodil Be | Norway | Lindtjern, B | Datiko, D
Woldesemayat, Endrias M | Ethiopia | Lindtjern, B | Datiko, D

New students at CIH are welcomed, and most of them also attend a guided tour of Bergen.
Master candidates
Centre for International Health can accept 25 new Master students every year. However, some of the students with quota scholarships are transferred to PhD scholarships, reducing the number of Master’s.

In 2014 we had 44 Master students, 23 women and 21 men, coming from 18 different countries. They form the basis of our education in International Health and must be considered as the heart of CIH.

Finishing in 2014 (2012-2014)
Al-Ashtal, Amin Mohsen Saleh
Amare, Ephrem Bililigne
Akkar, Ingrid
Konstantinova, Victoria
Lastrado, Olivia
Memirie, Solomon Tesemma*
Mrema, Dorah Elsiongou
Ngatu, Amare Workiey*
Nilsen, Cecilia
Pandey, Poonam
Nitaowera, David Gatsinzi*
Senthra, Rachana
Senkoro, Kesheni P.* († 20.02.2015)
Some, Nagaonle Eric*
Thommesen, Trude Gro
Timilsina, Diwas
*transferred to the PhD programme

Ahmed, Israa Abdul Riman
Corsoy, Gregory
Denegetu, Tsiyon Haileyesus
Haile, Alemayehu*
Jalloh, Eden
Mekki, Chisala
Mohamed Ahmed, Samih
Shahzad, Yasir
Tewelde, Mengo Gebremeskel
Yigezaw, Getachew Shiferaw
Zgemo, Jessy

Beginning in 2014 (2014-2016)
Ali, Mohamed Abdul Raouf
Binyaruku, Peter John
Cole, Robin
Gjerde, Kyrrst
Hammer, Anna
Hasha, Wegdan
Kibira, Simon Peter
Lubulwa, Frances Clae\r\nMacha, Jane
Rankinen, Maija
Rasheed, Rahma
Sanou, Anselme Siméon
Zhao, Ruiting

Students in the Medical Student Research Programme
A few years we have had a system with a "Medical Students Research Programme", making it possible for medical students to be educated in research during their undergraduate study. They get an extended scholarship, one extra year at medical school. It is a great opportunity for recruiting young, coming physicians to international research, and we welcome the group of Norwegian medical students who have decided to be in our research environment.

Grønvik, Taran; Hegdahl, Hanne K; Melberg, Andrea; Pannu, Mehma; Ribe, Ingeborg; Skylstad, Vilde; Solheim, Ingrid; Halvåg, Ragnhild

Erasmus Mundus Students
Chan Min Ju

Bergen Summer Research School 2014:
Governance to Meet Global Development Challenges
In 2014 the theme for the Bergen Summer Research School (BSRS) was “Governance to Meet Global Development Challenges”

BSRS 2014 adopted an interdisciplinary approach gathering an international group of research students and scientists, to explore governance and its complex and interlinked challenges in development from different disciplines and perspectives.

The Summer School was organised in five parallel courses and the Centre for International Health contributed with the course “Global Governance for Health”. Course leaders were Professors Karen Marie Moland and Astrid Blystad. The medical students Kristine H. Onarheim, Johanne H. Iversen and Andrea Melberg participated as lecturers, in addition to Professor Ole F. Norheim, post doc Magnus Vollslett from the History Department, and guest lecturers Marge Berer and John-Arne Røttingen.

The course explored the expanded field of global governance for health and how global processes, policies and priorities impact national priority setting, health policy and -financing and public health profiles. Locating the Millennium Development Goals at the core, it looked into the dynamics between global norms and policies and national governance, and explored global to local policy translations and their consequences both for individual and public health.

One of the main lessons learnt by the attempts to reach global health targets the past decades is that challenges like climate change, pandemic flu, HIV/AIDS and the rise of non-communicable diseases cannot be addressed effectively without addressing the social, economic and political forces that shape the conditions for disease.

The Course had 15 participants (7 women and 8 men), and they were from 10 different countries; Ethiopia, India, Kenya, Nepal, Norway, Sierra Leone, Sudan, Uganda, USA and Zimbabwe.
5. DOCTORAL DEGREES AWARDED

Acute injuries in Khartoum State, Sudan

Injuries result in the deaths of almost 6 million people each year; more than the number of deaths caused by malaria, tuberculosis and HIV/AIDS combined. This thesis provides population-level information based on interviews conducted in Khartoum State, Sudan.

Ugandan children are vaccinated too little and too late

This thesis investigates vaccination practice in Kampala, Uganda. The work identified some of the many challenges to ensure that children are not only vaccinated against illnesses, but also that vaccination occurs during the optimal time frame.

Cancer stem cells in oral cancer
Tarig Osman (Photo: A.S. Herdlevær) defended his thesis entitled “Cancer stem cell-related markers in normal and neoplastic oral mucosa; a study on human samples and experimental models” on 4th of June 2014.

This thesis investigates the complexity of mouth cancer tumours. The study results indicate that currently each individual tumour must be examined to determine optimal treatment as it is not yet possible to generalize tumour types or treatment protocols.

People living with HIV in Viet Nam

In Viet Nam the HIV epidemic is largely concentrated within particular population groups that are already subjected to stigmatization and discrimination. Successful prevention and treatment services will require multi-sector collaboration and communication.

Physical activity and nutrition in Germany
Jonas Finger (Photo: Rune Haakonsen) defended his Doctor Philos thesis entitled “Social inequality in physical activity and nutrition in Germany” on 11th of December 2014.

As compared to the adolescents of parents with high education, the adolescents of parents with low education levels tend to have higher media use, lower aerobic fitness level and to consume more energy-dense food. Adults with low education were found to be more physically active overall, perhaps due to type of job, while adults with high education were more active in their leisure time.
6. MASTER DEGREES AWARDED

<table>
<thead>
<tr>
<th>Master Degrees (15)</th>
<th>Thesis title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ephezm Bililign Amare</td>
<td>Early childhood head circumference: Reference ranges for Ethiopian population.</td>
</tr>
<tr>
<td>Kathryn Rose Brignole</td>
<td>Temporal and Geospatial Analysis of Salmonella Typhi Infections in Children at Angkor Hospital for Children and Satellite Clinic in Two Districts in Siem Reap, Cambodia (2007-2012): A Retrospective Study</td>
</tr>
<tr>
<td>Min Ju Chan</td>
<td>Is antiretroviral medication adherence associated with self-compassion and HIV-related stigma among people living with HIV in Shanghai, China?</td>
</tr>
<tr>
<td>Robini Jala</td>
<td>&quot;I’m afraid, actually!&quot; Midwives’ challenges in providing quality maternal and newborn care in health centres in Addis Ababa, Ethiopia.</td>
</tr>
<tr>
<td>Dorah Elisongo Mrema</td>
<td>The association of prepregnancy body mass index and changes of prepregnancy BMI/ body weight between pregnancies with risk of preeclampsia: a birth registry study from Tanzania.</td>
</tr>
<tr>
<td>Everest Emeka Ojukwu</td>
<td>Methicillin-resistant Staphylococcus epidermidis. Daptomycin susceptibility testing and resistance to quinolones.</td>
</tr>
<tr>
<td>Pionam Pandey</td>
<td>The in vivo function of Semaphorin3A in the innervation of the mandibular molar tooth germ in late postnatal and young adult mice.</td>
</tr>
<tr>
<td>Pitan Lal Shrestha</td>
<td>Usability and desirability of OpenXdata – an electronic data capture tool for data collection in health research.</td>
</tr>
<tr>
<td>Dwaw Timluina</td>
<td>Musculoskeletal Symptoms in adults in Kathmandu Metropolitan City: A Household survey.</td>
</tr>
<tr>
<td>Tiude Thommesen</td>
<td>&quot;I’m afraid, actually!&quot; Midwives’ challenges in providing quality maternal and newborn care in health centres in Addis Ababa, Ethiopia.</td>
</tr>
<tr>
<td>Iblilug Abdulhaghi Yagoub</td>
<td>Antimicrobial Susceptibility of Aggregatibacter actinomycetemcomitans serotype b in Biofilms versus Planktonic Cultures.</td>
</tr>
</tbody>
</table>

7. CIH INTERNATIONAL ACTIVITY

Institutions CIH has a collaboration with:

**AFRICA**
- **Burkina Faso**: Centre Muraz
- **Democratic Republic of Congo**: School of Public Health, University of Kinshasa, Ethiopia
- **Addis Ababa University**: Addis Ababa University
- **Arba Minch University**, Arba Minch
- **Hawassa University**, Ethiopia
- **National Meteorological Agency of Ethiopia**, Addis Ababa University
- **University of Gondar**, Wolaita Sodo University

**Kenya**
- **African Medical Research Foundation (AMREF)** 
  University of Nairobi
- **Malawi**: University of Malawi, College of Medicine

**South Africa**
- **Effective Care Research Unit**, University of the Witwatersrand, Johannesburg
- **University of Fort Hare**, University of KwaZulu-Natal
- **University of Stellenbosch**, University of the Western Cape

**Tanzania**
- **Haydom Lutheran Hospital**, Ilakara Health Institute, Dar es Salaam
- **Institute of Social Work, Gender and Development**, Dar es Salaam
- **Kilimanjaro Christian Medical Centre (KCMC)**
- **Ministry of Health and Social Welfare**, Muhihimbi University of Health and Allied Sciences (MUHAS)
- **National Institute of Medical Research (NIMR)**
- **University of Dar Es Salaam**

**Togo**
- **The University of Lomé**, Department of Public Health and Epidemiology

**Uganda**
- **Buseitima University**, Gulu University
- **Makerere University**, Kampala

**Zambia**
- **University of Zambia**

**ASIA**
- **Afghanistan**: International Assistance Mission (IAM), Herat and Mazar

**Cambodia**
- **National Institute of Public Health**, Phnom Penh

**India**
- **All India Institute of Medical Sciences, New Delhi**: Centre for DNA Fingerprinting & Diagnostics, Hyderabad
- **Sr. John’s Research Institute at St John’s Medical College**: Centre for Health Research and Development, New Delhi
- **University of the Western Cape**: Translational Health Science and Technology Institute (THSTI)
- **Pediatric Biology Centre at THSTI**

**Nepal**
- **Kathmandu University**, Tribhuvan University, Kathmandu

**Pakistan**
- **Association for Social Development (ASD)**
- **Interactive Research & Development IRD**, Karachi

**Yemen**
- **University of Science and Technology**, Sana'a
9. MAIN PROJECTS

In addition to CISMAC, a large number of projects are run at CIH. We mention the main ones here – they show clearly the large network of Centre activities.

### Africa

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Duration</th>
<th>Project Leader</th>
<th>Funding Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enfance Africaine – Mental child health in francophone Africa</td>
<td>2014-2018</td>
<td>Abotnes, Esperance Kashala</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>SeeTheChild - Mental child health in Uganda</td>
<td>2013-2017</td>
<td>Engebretsen, Ingunn</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>Combining indoor residual spraying and long-lasting insecticidal nets for preventing malaria: Clust randomized trial in Ethiopia</td>
<td>2012-2017</td>
<td>Lindtjørn, Bernt</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>SURVIVAL FLUS: Increasing capacity for mama-baby survival in post-conflict Uganda and South Sudan</td>
<td>2013-2018</td>
<td>Tylleskär, Thorkild</td>
<td>NORHED</td>
</tr>
<tr>
<td>GROW NUT - Growing Partnership for Higher Education and Research in Nutritional Epidemiology in DR Congo</td>
<td>2013-2018</td>
<td>Hatlay, Anne</td>
<td>NORHED</td>
</tr>
<tr>
<td>HiTRAIN – Health Informatics training and research in East Africa for improved healthcare</td>
<td>2013-2018</td>
<td>Tylleskär, Thorkild, Khalid Mughal (Dept. of Informatics)</td>
<td>NORHED</td>
</tr>
<tr>
<td>SEMAPH - South Ethiopia Network of Universities in Public Health aims to improve women's participation in post graduate education</td>
<td>2014-2018</td>
<td>Lindtjørn, Bernt</td>
<td>NORHED</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 E.</td>
<td>NORHED</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>
</tr>
<tr>
<td>Master of Science in Epidemiology</td>
<td>2011-2014</td>
<td>Tyfuskes, Knut Martin</td>
<td>NORMA</td>
</tr>
<tr>
<td>Sandwich programme for M Med and M Sc degrees in clinical medicine</td>
<td>2009-2014</td>
<td>Langeland, Nina</td>
<td>NORMA</td>
</tr>
<tr>
<td>Saving Brains; Identifying Early Life Interventions That Promote the Fulfilment of Human Capital: Saving Brains in Uganda and Burkina Faso (PROMISE SB)</td>
<td>2012-2014</td>
<td>Tylleskär, Thorkild</td>
<td>Grand Challenges Canada</td>
</tr>
<tr>
<td>Improving Maternal and Newborn Health Outcomes in Addis Ababa through skills training, an intervention cohort study</td>
<td>2013-2014</td>
<td>Karen Marie Moland; Mirkuzie, Amenesh</td>
<td>Laerdal Foundation AM</td>
</tr>
<tr>
<td>Randomized clinical trial assessing laryngeal mask (LMA) versus face-mask ventilation in neonatal resuscitation in Uganda</td>
<td>2012-2015</td>
<td>Tylleskär, Thorkild</td>
<td>Laerdal Foundation AM</td>
</tr>
</tbody>
</table>

### Asia and unspecified

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Duration</th>
<th>Project Leader</th>
<th>Funding Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOPENTERICS: Vaccination against Shigella and ETEC: novel antigens, novel approaches</td>
<td>2010-2014</td>
<td>Sommerfelt, Halvor</td>
<td>Rieber Fund</td>
</tr>
<tr>
<td>Zinc as an adjunct for the treatment of very severe disease in infants younger than 2 months</td>
<td>2014-2017</td>
<td>Bhatnagar, Shrini</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>Improving diagnosis of extrapulmonary tuberculosis by implementation of a sensitive and specific assay in routine tuberculosis diagnostics</td>
<td>2014-2017</td>
<td>Mustafa, Tehmina</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>The effect of Vitamin B12 supplementation in Nepali Infants on Growth and Development</td>
<td>2014-2018</td>
<td>Strand, Tor A.</td>
<td>Thrasher Research Fund</td>
</tr>
<tr>
<td>Impact of vitamin B12 on neurodevelopment and cognitive function from early life into school age</td>
<td>2014-2019</td>
<td>Strand, Tor A</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>Development of a vaccine for enterotoxigenic E. coli based on the heat-stable toxin</td>
<td>2014-2018</td>
<td>Sommerfelt, Halvor</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>Preparing for tuberculous vaccine efficacy trials: Baseline epidemiology, improved diagnosis, markers of protection and phaseI/II trials</td>
<td>2008-2016</td>
<td>Groewal, Harleen</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>Norwegian Forum for Global Health Research</td>
<td>2013-2015</td>
<td>Istad, Therese M.; Schield, Inger B</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>Priorities in Global Health 2020</td>
<td>2011-2016</td>
<td>Kjell Arne Johansson</td>
<td>RCN/GLOBVAC</td>
</tr>
<tr>
<td>Nutrition and brain development in small children in Nepal</td>
<td>2012-2014</td>
<td>Strand, Tor A</td>
<td>Reiber Fund</td>
</tr>
<tr>
<td>Acceptability of a wheat-based ready-to-use therapeutic food (MUTF)</td>
<td>2013-2014</td>
<td>Schwiniger (Kaulfuss), Catherine</td>
<td>Reiber Fund</td>
</tr>
</tbody>
</table>

### World Universities Network (WUN)

Professor Cecilie Svanes is leading a project where the researchers will try to find the connection between parasitic infections and allergies. The project has received funding from the Worldwide Universities Network (WUN).

The project is called Helminths and allergy in South Africa and Northern Europe and Svanes’s main collaborators on the project are Professor William Horsnell at the University of Cape Town (UCT) and Professor John Holloway at the University of Southampton. The project covers research conducted in Norway, Estonia, South Africa, the United Kingdom and probably soon also Spain.

“Parasites are widespread in developing countries but not that common in the developed world,” says Svanes. “While parasitic infections have become rarer in our part of the world, allergies have increased.”

10. CENTRE FOR INTERVENTION
SCIENCE IN MATERNAL AND CHILD HEALTH (CISMAC).

CISMAC is a Centre of Excellence, anchored at CIH. Research institutions in Norway and in Ethiopia, India, Nepal, South Africa, Uganda and Zambia are partners in the CISMAC consortium, and CISMAC is also supported by the WHO. The director of CISMAC is Professor Halvor Sommerfelt.

CISMAC supports research aiming to effectively and equitably improve health and survival of mothers and children as well as child development. CISMAC projects target low-income populations in Asia and Sub-Saharan Africa.

CIH is proud to have this Centre as a part of our work environment, and want to show some of the important results from the CISMAC activity the past year here:

CISMAC is setting Newborn Health on Global Health Agendas

for newborn and child health. CISMAC researchers have for instance co-authored two publications in The Lancet reflecting the work on newborn health:


The team behind the publications has worked to establish evidence-based research priorities for reducing mortality among newborn babies and children post 2015. Research has shown that it is a myth that improving newborn health and survival requires high-tech and expensive interventions: Simple, effective, low-cost solutions exist. The Lancet papers give an overview of the many opportunities there are improving newborn health and survival requires high-tech and expensive interventions: Simple, effective, low-cost solutions exist. The Lancet papers give an overview of the many opportunities there are for engagement and action to improve newborn health.

See the separate annual report from CISMAC here:


11. PUBLICATION LIST

This publication list is not complete, but shows the main publishing areas among scientific employees at CIH.

Ethics:
- Fredriksen EH, Harris J, Moland KM, Sandby J. “They ask whether this is real or fake”: a qualitative Norwegian study of pregnancy complaints and access to social benefits. Health Care Women Int. 2014
- Kolle G, Moon BE. Policy for improving global health. Tidsskr Nor Laegeforen. 13.05.2014

Health economics:

Health priorities:

HIV:
Infections:
- Babirye JN, Engenbretsen IM, Rutbeberberwa E, Kigula J. No urban settings do not ensure access to services: findings from the immunization programme in Kampala Uganda. BMC Health Serv Res. 06.03.2014

Malaria:

Mother/child:
- Awer P, Wamani H, Tylleskar T, Jagar D, Peterson S. Increased access to care and appropriateness of treatment at private sector drug shops with integrated management of malaria, pneumonia and diarrhea: a quasi-experimental study in Uganda. Pl ouS. 01.03.2014

Nutrition:
- Aake I, Bjoro T, Nosheim J, Strand TA, Bankimo I, Hjemm S. Excessive iodine intake and thyroid dysfunction among lactating Saharan women. J Trace Elem Med Biol. 06.03.2014
- Kismal H, Schniere C, Chhagan M, Nappato M, Van den Broeck J. Incidence and course of child malnutrition according to clinical or anthropometrical assessment: a longitudinal study from rural DR Congo. BMC Pediatr. 28.01.2014
Occupational and environmental health:

- Hanssen VM, Nøkleby RO, Zekke ZK, Moen BE, Bratseth M. High prevalence of respiratory and dermal symptoms among Ethiopian flower farm workers. Arch Environ Occup Health. 15.01.2014
- Reknes I, Pållesen S, Magrey N, Moen BE, Bjorvatn B, Einarsson S. Exposure to bullying behaviors as a predictor of mental health problems among Norwegian nurses. Results from the prospective SUSHJ-survey. International Journal of Nursing Studies 2014
- Waage S, Pållesen S, Moen BE, Magrey N, Flo E, DiMia E, Bjorvatn B. Predictors of shift work disorder among nurses: a longitudinal study. Sleep Med. 17.03.2014

Respiratory health:

- Bakola J, Heinrichs J, Zwick J, Norbäck D, Svanoe C, Chen CM, Accoirdin S, Verlato G, Olofsson M, Janson D. House dust mite allergen exposure is associated with serum specific IgE but not with respiratory outcomes. Indoor Air. 11.06.2014

Tuberculosis:

- Mustafa T, Lewensohn NA, Solkind L, Wiiker HG. Differential in vivo expression of mycobacterial antigens in Mycobacterium tuberculosis infected lungs and lymph node tissues. BMC Infect Dis. 03.10.2014
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