

CIH Strategy

To develop

- strong research clusters within specific health research areas in fields of global importance, and to
- contribute to improvement of health policy (support, care and prevention/health promotion)
- To be achieved through an interdisciplinary research environment and training programmes run in close collaboration with researchers and policymakers in counterpart countries.

United Nations Millennium Declaration: the 8 Millennium development Goals

- 1:Eradicate extreme poverty and hunger
- 2:Achieve universal primary education
- 3:Promote gender equality and empower women
- 4:Reduce child mortality:
 - Reduce <5 mortality by two thirds (1990 and 2015)
- 5:Maternal mortality:
 - Reduce maternal mortality; increase % births attended by skilled HWs
 - Universal access to reproductive health
- 6:HIV/AIDS, malaria and other diseases
 - By 2015: Halted and begun to reverse the spread of HIV
 - By 2010, achieved universal access to treatment for all those in need
- 7:Ensure environmental sustainability
- 8:Develop a global partnership for development

Research clusters Centre for International health

(Note: listed in alphabetical order)

Core Clusters (Partner departments)

• Child health and nutrition (IKM, ISF)

• Climate and Health (Bjerknes centre)

• Ethics, economics & culture;

Health policy and health systems research (ISF, IKM, CMI)

• HIV/AIDS (ISF, HEMIL, NIBR, HIB, CMI)

• Reproductive health (IKM, ISF, HIB)

• Tuberculosis (Gades, IFI)

Other active groups

• Oral Health (IKO, IBM)

• Oral cancer (Gades)

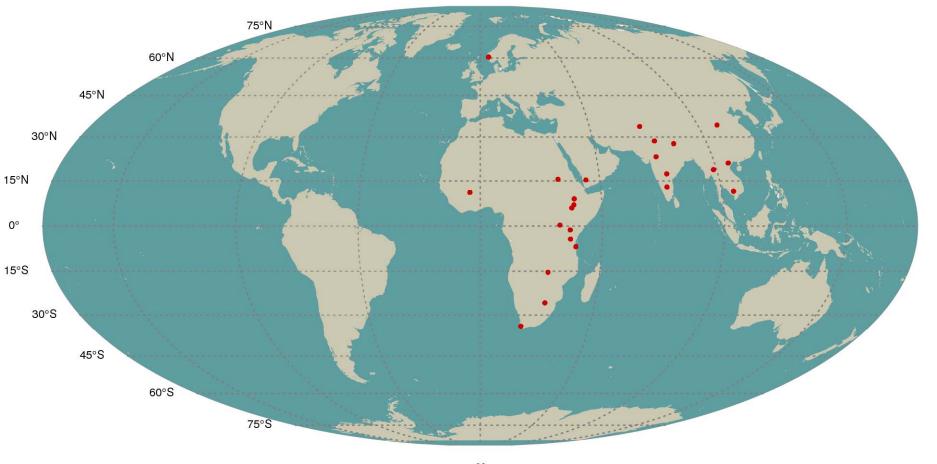
• ICT and health management (Infomedia)

• Occupational health (ISF)

• Vaccines and Immunology (Gades, IBM. IFI)



CIH major partner institutions in Africa and Asia



Institutional South partners for CIH

- University of Dar Es Salaam, Tanzania
- Muhimbili University of Health and Allied Sciences, Dar Es Salaam, Tanzania
- Kilimanjaro Christian Medical Centre, Tanzania, Tanzania
- National Institute for Medical Research (NIMR), Tanzania
- Haydom Lutheran Hospital, Tanzania
- University of Zambia
- University of Nairobi
- Kenya Medical Research Institute (KEMRI)
- Makerere University, Uganda
- University of Addis Ababa, Ethiopia
- Debub University, Ethiopia
- Afhad University, Khartoum, Sudan
- Sudan Technical University, Omdurman, Sudan
- All India Institute of Medical Sciences (AIIMS) New Dehli, India
- Society for Applied Studies, New Dehli, India
- St. Johns National Academy of Health Sciences (SJNAHS), India
- Tribhuvan University, Katmandu, Nepal
- Association for Social Development, Pakistan
- National Institute of Public Health, Cambodia
- National Institute of Hygiene and epidemiology, Vietnam
- Centre MURAZ Research Institute, Burkina Faso
- Medical Research Council, South Africa
- University of Western Cape, South Africa

Research training programmes at CIH

(student/candidate status January 2010)

- Research School in International Health
 - PhD-programme
 - January 2010: 70 candidates
- Master of Philosophy (2 years) January 2010: 32 students
 - International health: January 2010: 25 students
 - Oral health: January 2010: 7 students
 - Health Promotion at HEMIL, overlapping courses and supervisors
 - Erasmus Mundus: European Master of Science in International health
 - The TropEd Network: Accreditation of courses; students from European Universities in elective courses at CIH, about 30 per year?

External funding

NUFU

- HIV/AIDS, Reproductive health, health systems research, child health and nutrition, microbiology, pathology
- Total 9 programmes: Zambia, Tanzania, India, South Africa, Uganda, Ethiopia, Sudan

NFR

 HIV/AIDS, Reproductive health, health systems research, antibiotics, vaccination, nutrition intervention studies, mobile data collection tools for vaccination and health research

NOMA

 Establishing/running Master programmes in developing countries (3, Zambia, Tanzania; Uganda/Ethiopia)

• EU

 Priority setting in the district health system, promotion of exclusive breastfeeding in the era of HIV

EDCTP and NFR together

Prevention of postnatal mother-to-child transmission of HIV

Regional AIDS Team Southern Africa

Cluster randomised trial (in Zambia)

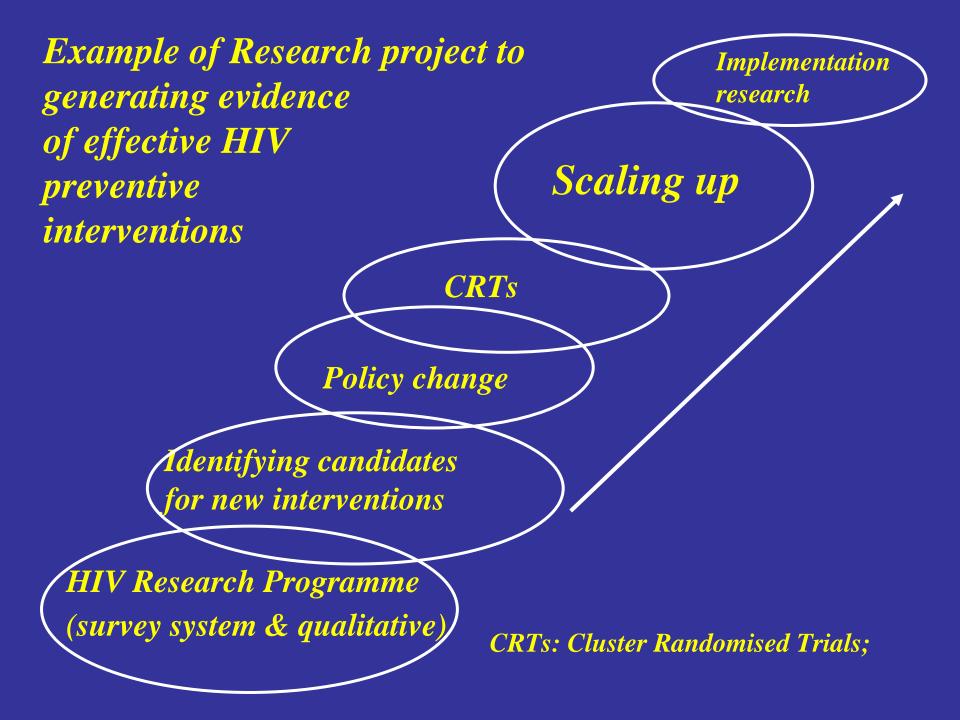
NORAD

Smaller programmes and consultancies

Total funding 2008-2013: 150 mil NOK

CIH Staff

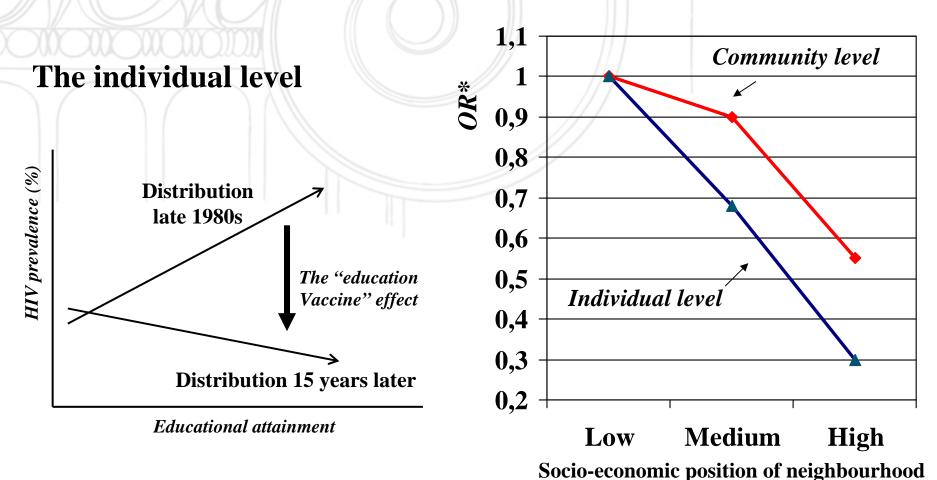
•	Core staff:	
	- Professors	8
	 Administrative 	2.5
•	Temporary	
	- Researchers	4
	- Postdocs	6
•	Affiliated permanent scientific staff (other departments)	14
•	Professor Emeritus	1
•	Project linked administrative staff	4
•	PhD candidates with teaching agreement	4
•	PhD candidates, enrolled January 2010	70





Generated knowledge on socio-economic determinants of HIV transmission in SSA

The structural level



*OR: Contrasts in HIV among young women in Zambia

Cluster Randomised Trials initiated by CIH and partners Generating evidence for improving HIV prevention and child health survival

Child health/nutrition & survival

- Zinc for treatment of diarrhea: Nepal and India part of the evidence-base leading to new recommendations on the management of diarrhea (completed)
- ROMISE-EBF: Safety and Efficacy of Exclusive Breastfeeding Promotion in the Era of HIV in Sub-Saharan Africa (completed)

HIV prevention

- Acceptability, feasibility, preventive impact, and cost-effectiveness of home-based voluntary HIV counselling and testing in Zambia (ongoing)
- PROMISE-PEP: Comparison of Efficacy and Safety of Infant Peri-exposure
 Prophylaxis to Prevent HIV-1 Transmission by Breastfeeding (ongoing)

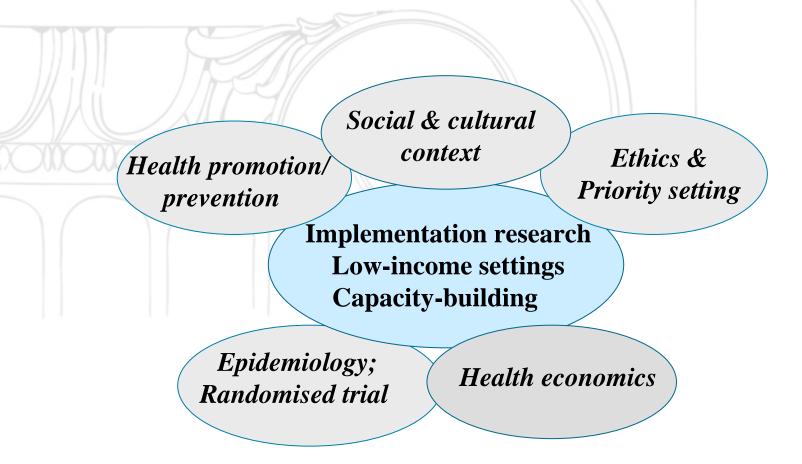
Intended research focus in a SFF: Implementation research

- Despite global efforts to improve health/welfare in low-income countries, avoidable diseases and deaths are overwhelming
- Feasible & affordable interventions exist but do not reach the most needy
- The knowledge-implementation gap is standing out as the key global health challenge
- The overall objective of implementation research is to <u>substantially reduce this gap</u> - to improve access to efficacious interventions by developing practical solutions to critical problems in complex and context dependent interventions

Implementation research cont.

- Defining implementation research
 - The scientific studies of methods or strategies to promote the systematic uptake of research findings or other evidence-based practices into routine practice to improve the quality and effectiveness of preventive and care activities
 - Source: Eccles MP, Mittman BS: Welcome to Implementation Science. Implementation Science 2006,1:1)
- Implementation research
 - must be locally based
 - must put priority on capacity building since a prerequisite for sustainability
 - Is inherently <u>interdisciplinary</u> and has to address contextual issues to guide the development of sound implementation strategies requires the involvement of many diverse disciplines - sees interdisciplinary cooperation and partnership building as essential





CIH/UiB Global Health research platform: an interdisciplinary approach to implementation research

Need for comprehensive programmes for implementation research

- Involve different disciplines
- Priority setting studies (among policy makers and other stakeholders)
- Contextual epidemiologic and qualitative research
- Health systems research including process evaluation
- Effectiveness studies of new and existing interventions
- Impact evaluation of larger programmes (related to scaling up)

Example: "Searching for effective HIV interventions in sub-Saharan Africa: focussing on local contexts" (Funded RCN and UiB: 2004-2010): **Project components**

Epidemiological contexts

Exposures/determinants; guiding prevention; test new interventions (CRTs)

Adolescence and HIV

Communication on sexuality,

Evaluating school-based interventions

Social & cultural

contexts: adherence

to Prevention & Care

Effective HIV interventions

Needs of orphans

Community

Responses & strategies

Financial/Institutional

systems: national, district; public vs. CBOs/NGOs (e.g. demand-driven distribution and inequity)

Interdisciplinary HIV/AIDS Research Group based On academic partnerships with institutions in SSA

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Conclusion

- Peer-counselling for EBF increases reported EBF prevalence at 3 months 2-3 fold depending on the local context
- Large country differences in
 - Baseline characteristics
 - Baseline EBF rates

Output from the EBF study

- 1) Large increases in EBF prevalence possible with peercounselling in Uganda and Burkina faso
 - * Tylleskär T et al.: 19th International Congress of Nutrition 2009
- 2) Successful community mobilisation for EBF promotion feasible
- 3) Lactation management with use of lay workers feasible
 - * Nankunda J, et al: Matern Child Nutr. 2010
 - * Nankunda J, et al: Int Breastfeed J 2006
- 4) Strategies for recruitment, training and follow-up of supporters defined
 - * Nor B, et al. J Hum Lact 2009
 - * Nankunda J, et al: Distinguised poster: International Conference of nutrition, Bangkok 2009

The EBF study yields sub-studies on:

- Perinatal and infant mortality: Estimates and risk factors amendable to change
- Child nutrition/anthropometry
- Vaccination coverage: Estimates and risk factors for missed vaccination
- Infant feeding practices
- Malaria
- Health economics/health system research
- Study methodology: epidemiology and nutrition
- Qualitative and quantitative methods and their integration