LSHTM Tanzania network

- Introductions / drinks / snacks
- The network overview and update
- Brief presentations (10 speakers?
 - 3 mins each!)
 - Quality of care & how to improve it



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About the LSHTM-Tanzania network

- Our overall aim is to improve public health research in Tanzania through joint research and capacity-building, including through better communications and networking for LSHTM staff, students, and alumni in Tanzania.
- **Membership** is open to LSHTM and collaborative site staff and research degree students whose work involves Tanzania; MSc students, both distance learning and face to face, who are Tanzanian or resident in Tanzania; and actively interested alumni linked to Tanzania.
- Who's who
- Leadership group: Saidi Kapiga, David Mabey, Natacha Protopopoff, Joanna Schellenberg, Jim Todd.
- Administrative support: Amina Farah (20% FTE, JMP, Moshi)

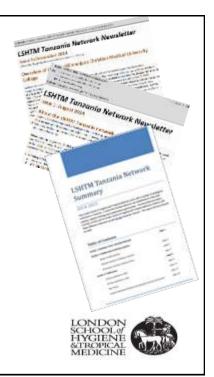
Subscribing and unsubscribing

- To send to the list, send your message to tanzania-network@lists.lshtm.ac.uk
- If you know of others who'd like to join, send them this link: https://lists.lshtm.ac.uk/sympa/subscribe/tanzania-network



Network update

- Coordination meetings
- 4 newsletters
- Planning meeting for the scientific launch
 - Bringing in Ifakara Health Institute, KCMC, NIMR Mwanza
- Website created by Alex Wright, launched April 2015
- Inaugural scientific meeting, Dar es Salaam, April 2015
 - HIV, malaria, and health systems themes
- "Stocktaking" exercise
 - Lists all collaborative research involving LSHTM in Tanzania
 - Current and recent MSc and research degree students



Views of the network from the 45 people at the launch meeting

- What do you want the network to be? How it should function?
- A platform for:
 - Sharing research findings
 - Developing joint research ideas, driven by the Tanzanian institutions
 - Sharing information on employment opportunities and logistic resources
 - Supporting capacity building

- · Implemented through:
 - A regular annual meeting
 - A website
 - Email list
 - Social media
 - News letter
 - Coordination group with a focal person from each institution would be useful.



LSHTM Tanzania network

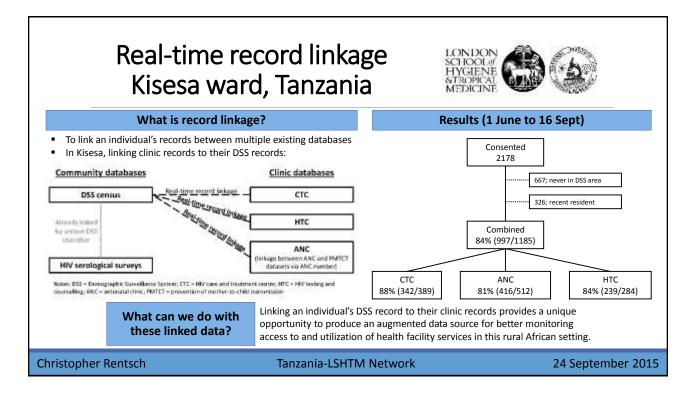
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Mentoring & measurement for improving maternal and newborn survival: developing an intervention to put accountability into practice in Tanzania

- Maternal and newborn mortality remain high in Lindi & Mtwara regions
 - Despite >75% births in a facility and improved newborn care in the community
- DFID/ESRC/MRC/Wellcome health systems development grant
- Learning from audit & QI, vital registration, WHO MDSR, social networks, VA...
- Principal Investigators: Joanna Schellenberg, LSHTM; Fatuma Manzi, IHI
- Collaborators: Godfrey Mbaruku, Elibariki Mkumbo, Ifakara Health Institute; Claudia Hanson, Karl Blanchet LSHTM
- Advisory group: Dr Moke Magoma, Evidence for Action Tanzania, Dr Veronique Filippi, LSHTM, Dr E Eliakimu, A Makuwani & Dr Neema Rusibamayila, Tanzanian Ministry of Health & Social Welfare, Dr Theopista John, WHO office for Tanzania, Dr Asia Hussein, UNICEF Tanzania

Joanna Schellenberg

Without slides ...

- Chris Grundy
 - Data collection, survey methods and GIS / mapping

Research related to quality of care - MITU Mwanza

Ongoing

◆ Improving the Health Systems Response to Chronic Diseases in Africa

Proposals under development or review

- ◆ Improving uptake and quality of antenatal and delivery care in rural Tanzania (see presentation by Christian Hansen)
- ◆ Improving health care in fishing communities of Lake Victoria
- ◆ Improving treatment adherence to ART among HIV infected patients with hazardous alcohol use

Heiner Grosskurth



Improving the Health Systems Response to Chronic Diseases in Africa

Collaborating institutions:

- MITU/NIMR Mwanza, MoHSW Tanzania
- MRC/UVRI Uganda, MoH Uganda
- LSHTM

4 phases:

Phase 1: Explore problem: 4 cross-sectional surveys in Tanzanaia / Uganda

Phase 2: Develop and implement intervention package

Phase 3: Evaluate intervention using a randomised controlled design

Phase 4: Dissemination; adjustment of existing policies

Timeframe: 2012 - 2016

LSHTM staff involved: Heiner Grosskurth, Saidi Kapiga, Richard Hayes Anna

Vassall, Sedona Sweeney, Liam Smeeth

Funding: MRC (UK), DFID

Heiner Grosskurth



Major observations made so far

In both Uganda and Tanzania, across rural and urban strata:

- High prevalence of hypertension 15 25%
- High prevalence of cardio-metabolic risk factors 35 50%
- Low / modest prevalence of other NCDs => window of opportunity for intervention

Kavishe B, Biraro S et al BMC Med 2015

Health services not yet well equipped to cope with the chronic disease burden

- Lack of equipment, drugs and guidelines
- Lack of training and supervision
- NCD patients frequently referred to hospital
- Hospitals overburdened, peripheral health facilities underutilised

Peck R et al Lancet GH 2014; Katende D et al TMIH 2015

Heiner Grosskurth



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Where there is no laboratory: the cost-effectiveness of anaemia diagnostic methods for under-5s in rural Tanzania



Background

- Presumptive iron therapy/supplementation not recommended in malariaendemic areas (e.g. Sazawal et al 2006)
- No cheap, portable iron tests available so have to screen for anaemia instead. But clinical diagnosis of anaemia inaccurate.
- WHO Haemoglobin Colour Scale cheap and more accurate than clinical opinion. HemoCue better still but expensive. No CEA done on either yet.

Objectives

- Make a preliminary assessment of the cost-effectiveness of the Colour Scale and HemoCue
 - Assume anyone with symptoms of either malaria or anaemia is tested for both (malaria rapid test)
- 2. Develop a publicly-available, easily-adaptable, Excel-based model
- 3. Highlight further research needs

Derek Foster

Results

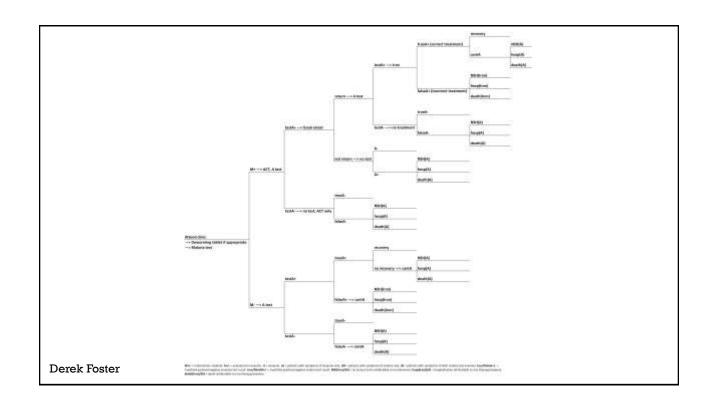
- VERY preliminary ICERs (provider perspective):
 - Colour Scale: ~\$40/DALY averted (~\$2,300/death averted)
 - HemoCue: ~\$140/DALY averted (~\$5,800/death averted)
- But high uncertainty from both model and parameters

Research needs

- Accuracy of tests (these and new devices coming to market) in 'real life' practice
- Adherence to test results
- Acceptability (to patients/clinicians/policymakers) of algorithm as well as tests
- Excess mortality risk from anaemia and incorrect iron therapy
- Other populations/purposes (pregnant women, prophylactic iron supplementation, other countries)
- Societal perspective analysis

What else?

Derek Foster





Hai HDSS

Adult Morbidity and Mortality Quality of Care Project (AMMP) 1994-2003

- DfID UK/Tanzanian Ministry of
- **Enumeration network**
- Verbal autopsy system

Ongoing projects/cohorts

- Stroke incidence 2003 2006
- Parkinson's Disease 2005
- Epilepsy 2009
- Skeletal fluorosis 2009
- Atrial fibrillation 2010
- Neurological disabilities in >70s 2010
- Dementia 2010

- Community-based diagnosis/management of chronic disease
- Epilepsy treatment gap 68.4% (Hunter et al, Seizure, 2012)
- Hypertension 'rule of sixths' (Dewhurst et al, J Hum Hypertens, 2013)
- IDEA study plans for non-pharma intervention

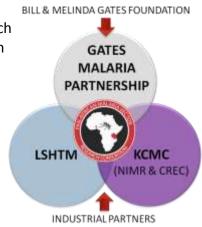
(Paddick et al, BMC Geriatr, 2015)

Public Engagement

PAMVERC

- LSHTM Gates Malaria Partnership 2001-2005 invigorated the Vector Control Research sites at KCMC and NIMR in 2002, the construction of insectaries, experimental hut suites, and biotechnology laboratories
- The Pan African Malaria Vector Research Consortium PAMVERC was established in 2008
- Research stations in Moshi, Muheza and Muleba in Tanzania, and sites in Benin and Ivory Coast
- WHO, LSHTM and private sector

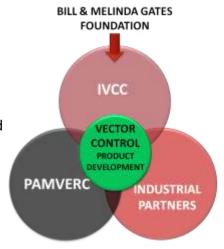
 Initially a collaboration between innovators



Mark Rowland

PAMVERC & IVCC at KCMUCo

- IVCC is a product development partnership by the Gates Foundation to Liverpool School of Tropical Medicine in 2005.
- The development and field testing of novel insecticides is done mainly at PAMVERC KCMUCo (Tanzania) and CREC (Benin) sites
- The name PAMVERC gave LSHTM and its African trial sites collaborators an identity distinct from the IVCC



Mark Rowland

